Final Report
Phase I RCRA Facility Investigation for Appendix I Sites

VOLUME III-B

SWMU-24/32, Industrial Wastewater Treatment Plant/
Sanitary Wastewater Treatment Plant

Department of the Air Force
Oklahoma City Air Logistics Center
Tinker Air Force Base, Oklahoma

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ACRONYMS AND ABBREVIATIONS

AFB	Air Force Base
AFLC	Air Force Logistics Command
AFMC	Air Force Materiel Command
AFSC	Air Force Systems Command
AMC	Air Materiel Command
AOC	Area of concern
API	American Petroleum Institute
AQUIS	Air Quality Utility Information System
ASTM	American Society for Testing and Materials
AWAC	Airborne Warning and Control
BF	Bioconcentration factor
bgs	Below ground surface
BNA	Base/neutral/acid - extractable
BTEX	Benzene, toluene, ethylbenzene, xylenes
CAA	Clean Air Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
cfm	Cubic feet per minute
CFR	Code of Federal Regulations
cm/sec	Centimeters per second
CME	Central Mine Equipment Company
CMS	Corrective measures study
COD	Chemical oxygen demand
COE	US Army Corps of Engineers or USACE
CWA	Clean Water Act
DCA	Dichloroethane
DCE	Dichloroethene

DCQAP	Data Collection Quality Assurance Plan
DNPH	Dinitrophenylhydrazine
DOD	US Department of Defense
DQO	Data quality objective
EM	Environmental Management
EPA	Environmental Protection Agency
ES	Engineering-Science, Inc.
ESC	East Soldier Creek
FAA	Federal Aviation Administration
FID	Flame ionization detector
GC	Gas chromatograph
gpd	Gallons per day
gpm	Gallons per minute
H_2S	Hydrogen sulfide
ICP	Inductively coupled plasma atomic emission spectroscopy
ID	Identification
IRP	Installation Restoration Program
IRPIMS	Installation Restoration Program information management systems
IWTP	Industrial wastewater treatment plant
K_H	Henry's Law constant
K_{oc}	Organic carbon partition coefficient
L/min	Liters per minute
LDR	Land disposal restrictions
LEL	Lower explosive limit
m^3	Cubic meter
MDL	Method detection limit
MEK	2-Butanone (methyl ethyl ketone)
mg/kg	Milligrams per kilogram
mg/L	Milligrams per liter
mgd	Million gallons per day
min	Minute
mL	Milliliter

mL/min	Milliliters per minute
mph	Miles per hour
MQA	Method quantitation limit
MS/MSD	Matrix spike/matrix spike duplicate
NAAQS	National Ambient Air Quality Standards
NAD	North American Datum
ng/m^3	Nanograms per cubic meter
NOAA	National Oceanic and Atmospheric Administration
NPDES	National Pollutant Discharge Elimination System
NPL	National Priorities List
OC-ALC	Oklahoma City Air Logistics Center
OCAMA	Oklahoma City Air Materiel Area
OSDH	Oklahoma State Department of Health
OSPC	Oklahoma State Planar Coordinates
OVA	Organic vapor analyzer
PAH	Polynuclear aromatic hydrocarbons
PCB	Polychlorinated biphenyl
PCE	Tetrachloroethene
PID	Photoionization detector
POTW	Publicly owned treatment works
ppb	Parts per billion
ppm	Parts per million
ppmv	Parts per million, volume per volume
PQL	Practical quantitation limit
PSI	Professional Service Industries, Inc.
PUF	Polyurethane foam filter
PVC	Polyvinyl chloride
QA	Quality assurance
QA/QC	Quality assurance/quality control
RAS	Return activated sludge
RCP	Recirculation pit
RCRA	Resource Conservation and Recovery Act

RFA	RCRA Facility Assessment
RFI	RCRA Facility Investigation
RI	Remedial investigation
RI/FS	Remedial investigation/feasibility study
SCC	Solids contact clarifier
SCFH	Standard cubic feet per hour
SGB	Bioenvironmental Engineering Office
SVOC	Semivolatile organic compound
SWD	Sidewall depth
SWMU	Solid waste management unit
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SWMU 32.6	Former Chlorine Contact Chamber
SWMU 32.8	Drying Beds
SWTP	Sanitary wastewater treatment plant
TAC	Tactical Air Command

TCA	Trichloroethane
TCE	Trichloroethene
TCLP	Toxicity characterization leaching procedure
TPH	Total petroleum hydrocarbons
TSCA	Toxic Substances Control Act
TSP	Total suspended particles
USAF	United States Air Force
USGS	United States Geological Survey
VLF	Very low frequency
VOA	Volatile organic analysis
VOC	Volatile organic compound
WWTF	Wastewater treatment facility
μg/kg	Micrograms per kilogram
μg/L	Micrograms per liter
°C	Degrees Celsius
°F	Degrees Fahrenheit
(')	Feet below ground surface

Appendix A

Drilling Logs

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.2	BORING NUMBER: SB2
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: R NELSON	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1259.398	DRILLING RIG: B-61
EAST COORDINATE: 2186888.629	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 156117.291	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/12/93	END DRILLING: 11/12/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				ROAD BASE	NACM		BOREHOLE DIA. = 6.5"
	X			SILTY CLAY, DARK RED, FIRM, PLASTIC, FEW SAND POCKETS, DRY.	CLML		
5	X			SAND, FILL MATERIAL, TAN, MEDIUM-GRAINED.	SP		5
	X		0	SILTY CLAY, DARK RED, FIRM, SLIGHTLY PLASTIC, BLOCKY, DRY.	CLML		
	X	X	40	SILTY CLAY, SAME AS ABOVE, MOIST.	CLML		
	X			SILTSTONE AND CLAY INTERBEDDED, SILTSTONE IS HARD, CLAY IS BLOCKY, NONPLASTIC; DRY	MLCL		
10	X			CLAY, DARK RED, PLASTIC, SOFT, WET.	CL		10
	X		100	SILTY CLAY, DARK RED, VERY FIRM, DRY.	CLML		
	X		20				
15	X						15
	X		14	SILTY SANDSTONE, GRAY, VERY FINE-GRAINED, PLATY, HARD, DRY.	SM		
	X	X	10				
				SILTY CLAY, DARK RED, VERY FIRM, DRY.	CLML		
				Total depth = 18 feet			
20							20

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.1	BORING NUMBER: SB1
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: R NELSON	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1265.662	DRILLING RIG: B-61
EAST COORDINATE: 2186771.016	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 156211.92	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/08/93	END DRILLING: 11/08/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				CLAY, DARK RED, PLASTIC, FIRM, DAMP; WITH SILT LAYERS AND MEDIUM-GRAINED TAN SAND SEAMS.	CL		BOREHOLE DIA. = 6.5"
5				SILTY SAND, DARK RED, VERY FINE TO FINE-GRAINED, SOFT, LOOSE, DAMP; WITH MEDIUM-GRAINED TAN SAND SEAMS	SM	5	
10			6 7	SILTY SAND, SAME AS ABOVE, GRADES TO FINE TO MEDIUM GRAINED, MOIST AT 10 FEET.	SM	10	
				CLAY, DARK RED, NON-PLASTIC, VERY FIRM, BLOCKY, SOME SILT, DRY.	CL		
				CLAY, DARK RED, SLIGHTLY PLASTIC, MODERATELY FIRM, SILTY LAYERS, DAMP.	CL		
15				SILT AND CLAY, DARK RED, FIRM, BLOCKY, DAMP.	MLCL	15	
				SAND, FINE TO MEDIUM-GRAINED, MOIST; WITH CLAY SEAMS.	SP		
				CLAY, DARK RED, HARD, DRY.	CL		
				Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.2	BORING NUMBER: SB3
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: R NELSON	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 17.5	DRILLER: R KISSEE
BORING ELEVATION (ft-MSL): 1258.265	DRILLING RIG: B-53
EAST COORDINATE: 2186890.792	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 156097.117	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/04/93	END DRILLING: 11/04/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				ROAD BASE.	NACM		BOREHOLE DIA. = 6.5"
	X			SILTY CLAY, DARK RED (2.5YR 4/6), PLASTIC, SOFT, SCATTERED VERY FINE-GRAINED SAND SEAMS, MOIST.	CLML		
5	X	X	9 250	SANDY CLAY, DARK RED, PLASTIC, SOFT, SAND IS VERY FINE-GRAINED, WET.	CLSC	5	
	X			CLAY, DARK RED, HARD TO VERY HARD, BLOCKY, SOME SAND AND SILT, DRY.	CL		
10			80 100	DRILLED FROM 9-12.5 FEET.	NSNR	10	
15		X	3	CLAY, DARK RED, HARD, BLOCKY, SOME SILT, DRY.	CL	15	
				Total depth = 17.5 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.2	BORING NUMBER: SB4
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 10	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1252.513	DRILLING RIG: B-61
EAST COORDINATE: 2186890.903	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 156002.636	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/05/93	END DRILLING: 11/05/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
	X			GRAVEL AND CLAY, RED (2.5YR 5/8), PLASTIC, FIRM TO HARD, DRY.	GWCL		BOREHOLE DIA. = 6.5"
				NO RECOVERY.	NSNR		
5	X	■		SHELBY TUBE GEOTECHNICAL SAMPLE.	NSNR		5
	X	■	100	CLAY, DARK RED (2.5YR 4/8), PLASTIC, SOFT, WITH ORGANIC MATERIAL AND OCCASIONAL SAND LENSES, DAMP TO MOIST.	CL		
10				CONCRETE.	NACM		10
				Total depth = 10 feet			
15							15
20							20

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.2	BORING NUMBER: SB5
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: R NELSON	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1256.83	DRILLING RIG: B-61
EAST COORDINATE: 2186815.53	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155998.91	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/09/93	END DRILLING: 11/09/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				CLAY, DARK RED AND DARK BROWN, PLASTIC, FIRM, DRY TO DAMP.	CLML		BOREHOLE DIA. = 6.5"
				SILTY SAND, DARK RED, VERY FINE TO FINE-GRAINED, SOFT, LOOSE, DAMP; WITH SOME BLACK STAINING.	SM		
5			1200	CLAY, DARK RED, SLIGHTLY PLASTIC, BLOCKY, DRY; CLAY STAINED LIGHT GRAY IN PLACES, SANDY.	CL		
			20	CLAY, DARK RED, NON-PLASTIC, BLOCKY, DRY.	CL		
10			80				
			8				
15							
			10	CLAY, SAME AS ABOVE WITH GRAY SILT SEAMS AND HARD FRAGMENTS OF CALCAREOUS CLAY.	CL		
20				Total depth = 18 feet			

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.2	BORING NUMBER: SB6
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: R NELSON	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1258.05	DRILLING RIG: B-61
EAST COORDINATE: 2186800.62	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 156021.18	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/09/93	END DRILLING: 11/09/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HOSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
			0	CLAY, DARK RED, NON-PLASTIC, VERY FIRM, BLOCKY, DRY; WITH SILT AND SAND SEAMS, BROWN, VERY FINE-GRAINED, SOFT, LOOSE, DRY.	CL		BOREHOLE DIA. = 6.5"
5			1500	SAND, DARK RED, VERY FINE-GRAINED, SOFT, LOOSE, DAMP TO MOIST.	SP	5	
				CLAY, DARK RED, PLASTIC, FIRM, MOIST.	CL		
10			350	SILTY CLAY, VERY FIRM, BLOCKY, DRY.	CLML	10	
			10	CLAY, DARK RED, NON-PLASTIC, VERY FIRM TO HARD, BLOCKY, DRY.	CL		
15			10			15	
			7				
				Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.2	BORING NUMBER: SB7
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: R NELSON	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1259.59	DRILLING RIG: B-61
EAST COORDINATE: 2186801.07	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 156065.16	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/10/93	END DRILLING: 11/10/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
	X			SILTY CLAY, DARK RED, SLIGHTLY PLASTIC, SOFT, DAMP; SANDY IN PLACES, VERY FINE TO FINE-GRAINED.	CLML		BOREHOLE DIA. = 6.5"
				NO RECOVERY	NSNR		
5	X	X	1	SILTY CLAY, DARK RED, SLIGHTLY PLASTIC, SOFT, DAMP; WITH OCCASIONAL GRAY SILTY CLAY SEAMS.	CLML	5	
	X		50	SAND AND CLAY INTERBEDDED, DARK RED, VERY FINE-GRAINED, SOFT, PLATY, MOIST.	SPCL		
10	X		600	SILTY SAND, LIGHT BLUISH GRAY (5B 7/1), VERY FINE-GRAINED, SOFT, SLIGHTLY LITHIFIED, MOIST.	SM	10	
	X	X	6	CLAY, DARK RED, NON-PLASTIC, VERY FIRM, BLOCKY, CRUMBLY, DRY.	CL		
15	X		15			15	
				Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.2	BORING NUMBER: SB8
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: R NELSON	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1261.22	DRILLING RIG: B-61
EAST COORDINATE: 2186800.69	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 156112.93	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/10/93	END DRILLING: 11/10/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
			0	SILTY CLAY, DARK RED, SLIGHTLY PLASTIC TO PLASTIC, SOFT TO FIRM, INTERBEDDED SILT AND VERY FINE TO FINE-GRAINED SAND LAYERS, BLACK STAINING, DRY TO DAMP.	CLML		BOREHOLE DIA. = 6.5"
5			9			5	
			5	SILTY SAND, DARK RED, VERY FINE-GRAINED, WITH SOME CLAY, SLIGHTLY PLASTIC, SOFT TO FIRM, DAMP.	SM		
10			100	SILTY SAND, DARK RED, VERY FINE TO FINE-GRAINED, SOFT, WITH FEW THIN CLAY SEAMS, MOIST.	SM	10	
			100				
			20	CLAY, DARK RED, NON-PLASTIC, VERY FIRM TO HARD, BLOCKY, DRY.	CL		
15			8			15	
			12	Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.3	BORING NUMBER: SB1
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: R NELSON	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 14	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1264.232	DRILLING RIG: B-61
EAST COORDINATE: 2186860.431	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 156218.241	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/08/93	END DRILLING: 11/08/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				ROAD BASE	NACM		BOREHOLE DIA. = 6.5"
	X			CLAY, DARK RED, PLASTIC, MODERATELY FIRM, LITTLE SILT, DAMP.	CL		
	X	X		SHELBY TUBE SAMPLE.	NSNR		
5	X	X	0	SILTY SAND, DARK RED, VERY FINE TO FINE-GRAINED, TRACE CLAY, MOIST.	SM		
	X			SILTY CLAY, DARK RED, PLASTIC, FIRM, VERY MOIST; WITH BLACK STAINING AND VERY FINE-GRAINED SAND.	CLML		
10	X			SILTY SAND, DARK RED, VERY FINE TO FINE-GRAINED, SOFT, WET.	SM		
	X	X		SAND, DARK RED, FINE TO MEDIUM-GRAINED, SOFT, WET.	SP		
15				Total depth = 14 feet			
20							

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.3	BORING NUMBER: SB4
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: R NELSON	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 15	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1264.967	DRILLING RIG: B-61
EAST COORDINATE: 2186799.966	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 156193.248	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/08/93	END DRILLING: 11/08/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
			1	SILTY CLAY, DARK RED, NON-PLASTIC, VERY HARD, BLOCKY, DRY.	CLML		BOREHOLE DIA. = 6.5"
			0				
5				SILTY SAND, DARK RED, VERY FINE TO FINE-GRAINED, VERY FIRM, PLATY, DRY.	SM	5	
			0	SAND, DARK RED, FINE TO MEDIUM GRAINED, LOOSE, WITH SOME PLATY LITHIFICATION AND BLACK STAINING, MOIST.	SP		
			2				
10			0			10	
				CLAY, DARK RED, PLASTIC, SOFT, BLACK STAINING.	CL		
			0	SAND, DARK RED, FINE TO MEDIUM-GRAINED, PLATY LITHIFICATION, FRIABLE, MOIST; WITH LAYERS OF SILT AND VERY FINE-GRAINED SAND.	SP		
			0	DARK RED WITH SOME GRAY PATCHES, PLASTIC, SOFT.	CL		
15				SAME AS ABOVE, DAMP.	SP	15	
				Total depth = 15 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.4	BORING NUMBER: SB1
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: R NELSON	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 11	DRILLER: R KISSEE
BORING ELEVATION (ft-MSL): 1258.387	DRILLING RIG: B-53
EAST COORDINATE: 2186942.706	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 156129.301	SAMPLING METHOD: SPLIT SPOON
BEGIN DRILLING: 10/28/93	END DRILLING: 10/28/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				NO RECOVERY.	NSNR		BOREHOLE DIA. = 6.5"
5				SANDY CLAY, DARK RED (2.5YR 4/6), PLASTIC, SOFT; SAND IS VERY FINE TO FINE-GRAINED; MOIST.	CLSP	5	Wet clay at approx. 5 feet.
				SANDY CLAY, SAME AS ABOVE, VERY MOIST TO WET.	CLSP		
				SHELBY TUBE GEOTECHNICAL SAMPLE.	NSNR		
10				CLAY, DARK RED, HARD, BLOCKY, DRY.	CL	10	
				Total depth = 11 feet			
15						15	
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.5	BORING NUMBER: SB2
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: R NELSON	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 18	DRILLER: R KISSEE
BORING ELEVATION (ft-MSL): 1255.039	DRILLING RIG: B-53
EAST COORDINATE: 2187073.283	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 156151.733	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 10/28/93	END DRILLING: 10/28/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				CLAY, DARK RED (7.5YR 4/8), SLIGHTLY PLASTIC TO PLASTIC, FIRM, SOME SILT, BLACK STAINING, DAMP.	CL		BOREHOLE DIA. = 6.5"
5				SHELBY TUBE GEOTECHNICAL SAMPLE.	NSNR	5	
				CLAY, DARK RED, NON-PLASTIC, VERY FIRM, BLOCKY, SCATTERED SAND POCKETS AND ORGANIC DEBRIS, DRY TO DAMP.	CL		
10				SAND AND SILT, DARK RED, SOFT, COMPACT; SAND IS VERY FINE-GRAINED AND SLIGHTLY CEMENTED; DAMP.	SPML	10	
15			2	SILT, DARK RED, NON-PLASTIC, MODERATELY SOFT, LITTLE CLAY, PLATY LITHIFICATION, DAMP.	ML	15	
				SILT, DARK RED, SLIGHTLY PLASTIC, BLOCKY, SOME CLAY, DAMP.	ML		
				Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.5	BORING NUMBER: SB3
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 5	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1255.214	DRILLING RIG: B-61
EAST COORDINATE: 2186968.496	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 156063.308	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 10/28/93	END DRILLING: 10/28/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				SILTY CLAY, DARK RED (2.5YR 4/6), MEDIUM PLASTICITY, FIRM, DRY.	CLML		BOREHOLE DIA. = 6.5"
				SAND, DARK RED, FINE-GRAINED, POORLY GRADED, ROUNDED TO WELL-ROUNDED, VERY SOFT, WITH ORGANIC MATERIAL, DAMP TO MOIST.	SP		
5				Total depth = 5 feet			
10							
15							
20							

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.6	BORING NUMBER: SB1
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1252.588	DRILLING RIG: B-61
EAST COORDINATE: 2187081.548	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 156100.1	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 10/28/93	END DRILLING: 10/28/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				CLAY, DARK RED (2.5YR 4/8), SLIGHTLY PLASTIC, HARD, TRACE SAND, DRY.	CL		BOREHOLE DIA. = 6.5"
5			0	CLAYEY SILT, DARK RED, NON-PLASTIC, SOFT, WITH INTERBEDDED LIGHT GRAY (2.5Y 7/1) CLAY, DRY.	MLCL	5	
10				SILT, DARK RED, NON-PLASTIC, SOFT, WITH CEMENTED SILT LAYERS (1-2 CM THICK), DRY.	ML	10	
15			4	SILT, SAME AS ABOVE WITH CEMENTED SAND LAYERS (1 CM THICK), FINE-GRAINED, ROUNDED, FRIABLE; DAMP.	ML	15	Attempted a Shelby tube from 12-14 feet BGL, but could only drive 3 feet.
			0	CLAYEY SILT, LIGHT RED TO DARK RED, NON-PLASTIC, SOFT, MOIST.	MLCL		
				SAND, DARK RED, FINE-GRAINED, WELL-ROUNDED, VERY SOFT, LOOSE, MOIST.	SP		
				Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.7	BORING NUMBER: SB2
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 18	DRILLER: R KISSEE
BORING ELEVATION (ft-MSL): 1248.461	DRILLING RIG: B-24
EAST COORDINATE: 2187209.568	DRILLING METHOD: SOLID STEM AUGER
NORTH COORDINATE: 156124.891	SAMPLING METHOD: SPLIT SPOON
BEGIN DRILLING: 11/08/93	END DRILLING: 11/08/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				DRILLED FROM 0-7 FEET.	NSNR		BOREHOLE DIA. = 3.5" Drilled to 7 feet BGL to check for underground lines.
5						5	Blow counts: 3-2-3-3
	X			SILTY SAND, DARK RED (2.5YR 4/8), FINE-GRAINED, POORLY GRADED, SUBANGULAR, SOFT, SOME SILT, DRY.	SM		
10	X					10	
	X	X		SILTY SAND, SAME AS ABOVE WITH TINTS OF YELLOW AND BLACK, FIRM IN PLACES, SLIGHTLY CEMENTED, DRY.	SM		Blow counts: 5-5-50
	X			DRILLED TO 18 FEET.	NSNR		
15						15	
			6	Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.8	BORING NUMBER: SB1
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1246.516	DRILLING RIG: B-61
EAST COORDINATE: 2187233.612	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 156128.107	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 10/22/93	END DRILLING: 10/22/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				SHELBY TUBE GEOTECHNICAL SAMPLE.	NSNR		BOREHOLE DIA. = 6.5"
5, 10				CLAYEY SILT, RED (10R 4/6), NON-PLASTIC TO SLIGHTLY PLASTIC, VERY SOFT; WITH OCCASIONAL YELLOW, SLIGHTLY CEMENTED, FINE-GRAINED SAND LENSES; DAMP.	MLCL		
15				SILT, RED, NON-PLASTIC, VERY SOFT, WITH OCCASIONAL YELLOW SAND LENSES, DAMP.	ML		
				SAND, ALTERNATING BANDS OF RED, YELLOW, AND LIGHT GRAY, FINE-GRAINED, POORLY GRADED, ROUNDED, VERY SOFT, WITH CEMENTED SAND LAYERS AND BLACK STAINING, MOIST AT 16.5 FEET.	SP		
20				Total depth = 18 feet			

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: 124.8	BORING NUMBER: SB2
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: R NELSON	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 17.5	DRILLER: R KISSEE
BORING ELEVATION (ft-MSL): 1242.42	DRILLING RIG: B-53
EAST COORDINATE: 2187281.08	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 156081.33	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/04/93	END DRILLING: 11/04/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				SILT AND CLAY SOIL, BROWN, DRY.	MLCL		BOREHOLE DIA. = 6.5"
				SILT AND SAND, DARK RED, LOOSE WITH HARD SILT FRAGMENTS.	MLSP		
5				SHELBY TUBE GEOTECHNICAL SAMPLE.	NSNR	5	
				FILL SAND, MEDIUM-GRAINED, DAMP.	SP		
			0	SILT, DARK RED, NON-PLASTIC, SOFT, SOME CLAY AND VERY FINE-GRAINED SAND, DAMP.	ML		
10				CLAY, DARK RED, PLASTIC, SOFT, LITTLE SILT, MOIST.	CL	10	
			0	SILTY SAND, DARK RED, VERY FINE TO FINE-GRAINED, SOFT, LOOSE, MOIST.	SM		
15				SAND, DARK RED AND YELLOW, FINE TO MEDIUM-GRAINED, LOOSE, CLAY SEAM, SOME BLACK STAINING, MOIST.	SP	15	
			30	Total depth = 17.5 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.8	BORING NUMBER: SB3
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: R NELSON	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 18	DRILLER: R KISSEE
BORING ELEVATION (ft-MSL): 1243.434	DRILLING RIG: B-53
EAST COORDINATE: 2187235.409	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 156061.764	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/02/93	END DRILLING: 11/02/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				SILT AND CLAY, DARK RED (7.5YR 4/6), SLIGHTLY PLASTIC, MODERATELY FIRM, SOME VERY FINE TO FINE-GRAINED SAND SEAMS, DAMP.	MLCL		BOREHOLE DIA. = 6.5"
5				SHELBY TUBE GEOTECHNICAL SAMPLE.	NSNR	5	
				SILT AND CLAY, SAME AS ABOVE.	MLCL		
			0	SAND, DARK RED, VERY FINE TO MEDIUM GRAINED, LOOSE, FEW CEMENTED FRAGMENTS, COMPACT; INTERBEDDED SILT AND CLAY, DARK RED, VERY FIRM, BLOCKY; DAMP.	SP		
10				SILT AND CLAY, DARK RED, INTERBEDDED SAND (.1-.4 FEET THICK), SLIGHTLY CEMENTED, COMPACT, DAMP.	MLCL	10	
			1.5	SAND, DARK RED, VERY FINE TO FINE-GRAINED, OCCASIONAL FINE TO MEDIUM-GRAINED LAYERS, SLIGHTLY CEMENTED IN PLACES, COMPACT, DAMP.	SP		
15				SAND, DARK RED, FINE TO MEDIUM-GRAINED, SLIGHTLY CEMENTED IN PLACES, BLACK STAINING FROM 16.5-17.5 FEET, MOIST AT 15 FEET.	SP	15	
			125	Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.8	BORING NUMBER: SB4
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 14	DRILLER: B KNOPF
BORING ELEVATION (ft-MSL): 1245.02	DRILLING RIG: B-24
EAST COORDINATE: 2187220.89	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 156074.29	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/09/93	END DRILLING: 11/09/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				DRILLED FROM 0-2 FEET.	NSNR		BOREHOLE DIA. = 3.5"
	X			SAND, RED (2.5YR 6/8) TO DARK RED (2.5YR 4/8), FINE-GRAINED, POORLY GRADED, SUBANGULAR TO SUBROUNDED, SOFT, LOOSE, SLIGHTLY CEMENTED, ABUNDANT BLACK STAINING, DRY; WITH CLAY LENSES AND INTERBEDDED SILTY SAND.	SP		
5	X	X				5	
	X						
	X	X		SAND, SAME AS ABOVE EXCEPT MOIST.	SP		Blow counts: 20-38-36.
10	X			DARK RED, FIRM, DRY.	ML	10	
				SILTY SAND, RED WITH TINT OF LIGHT GRAY, SOFT, BLACK STAINING, DRY.	SM		
	X			SAND, RED (2.5YR 5/8), FINE-GRAINED, POORLY GRADED, SOFT, LOOSE, TRACE SILT, DAMP.	SP		
				DRILLED TO 14 FEET.	NSNR		
			1.6	Total depth = 14 feet			
15						15	
20						20	

SOIL BORING LOG

TINKER AIR FORCE BASE

SITE LOCATION: I24.9	BORING NUMBER: SB1
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: R NELSON	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 18.5	DRILLER: R KISSEE
BORING ELEVATION (ft-MSL): 1242.73	DRILLING RIG: B-53
EAST COORDINATE: 2187289.704	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 156111.196	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/04/93	END DRILLING: 11/04/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				SILTY CLAY, DARK RED, PLASTIC, SOFT, FINE-GRAINED SAND SEAM, DAMP.	CLML		BOREHOLE DIA. = 6.5"
5			0			5	
				SILTY SAND, DARK RED, VERY FINE-GRAINED, NON-PLASTIC, MODERATELY FIRM, DAMP.	SM		
10				SILTY SAND, SAME AS ABOVE WITH SOME PLATY LITHIFICATION.	SM	10	
			0	SILTY SAND, DARK RED (2.5YR 4/8), FINE TO MEDIUM-GRAINED, SOFT, LOOSE, DAMP.	SM		
				SILTY SAND, DARK RED TO VERY DARK RED WITH BLACK STAINING, VERY FINE TO FINE-GRAINED, SOFT, PLATY LITHIFICATION, DAMP.	SM		
15				SILTY SAND, DARK RED, FINE TO MEDIUM-GRAINED, SOFT, CLAYEY AT 16 FEET, WET AT 14.5 FEET.	SM	15	
			85	SILTY SAND, DARK RED, VERY FINE TO FINE-GRAINED, LITTLE CLAY IN SEAMS, WET.	SM		
				Total depth = 18.5 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.10	BORING NUMBER: SB1
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1242.38	DRILLING RIG: B-61
EAST COORDINATE: 2187278.403	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 156033.21	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 10/25/93	END DRILLING: 10/25/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
	X			SILT, DARK RED (2.5YR 4/8), NON-PLASTIC, HARD, TRACE FINE-GRAINED SAND, DRY.	ML		BOREHOLE DIA. = 6.5"
	X	■		SHELBY TUBE GEOTECHNICAL SAMPLE.	NSNR		Hard drilling from 2-4 feet BGL. Pieces of rubber in cuttings - damage to end of Shelby tube.
5	X	■	.2	SILT, DARK RED WITH TINT OF YELLOW AND GRAY, LOW PLASTICITY, SOFT, BLACK STAINING, WITH OCCASIONAL FINE-GRAINED SAND LENSES, DRY TO DAMP.	ML	5	
	X			SILTY SAND, FINE-GRAINED, SUBROUNDED TO ROUNDED, VERY SOFT, LOOSE, DAMP.	SM		
10	X			SAND, STRONG BROWN (7.5YR 5/8) AND OLIVE YELLOW (2.5Y 6/8), FINE TO MEDIUM-GRAINED, POORLY GRADED, SUBROUNDED TO ROUNDED, VERY SOFT, LOOSE; INTERBEDDED DARK REDDISH BROWN (5YR 3/4) CLAY LAYERS, BLACK STAINING, CEMENTED SAND LAYERS, MOIST.	SP	10	
15	X	■	0	SAND, PREDOMINANTLY DARK RED (2.5YR 4/6) WITH BANDS OF OLIVE YELLOW AND WHITE, FINE-GRAINED, POORLY GRADED, ROUNDED, VERY SOFT, LOOSE, WITH BLACK MINERALIZATION; INTERBEDDED RED CLAY AT 16.5 FEET, PLASTIC, HARD; WET.	SP	15	
				Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.10	BORING NUMBER: SB2
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: J OSWEILER	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 18	DRILLER: R KISSEE
BORING ELEVATION (ft-MSL): 1242.053	DRILLING RIG: B-53
EAST COORDINATE: 2187276.322	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 156000.362	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 10/25/93	END DRILLING: 10/25/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				ORGANIC SILT, BROWN (7.5YR 4/4), SLIGHTLY PLASTIC, FIRM, DRY.	OL		BOREHOLE DIA. = 6.5"
				FILL SAND, BROWN, FINE-GRAINED, DRY.	SP		
				SILT, RED (2.5YR 4/6), SLIGHTLY PLASTIC, FIRM, LITTLE CLAY, LITTLE SAND, DRY TO DAMP.	ML		
5				SHELBY TUBE GEOTECHNICAL SAMPLE.	NSNR		5
				CLAY, RED (10R 4/8), HIGHLY PLASTIC, FIRM, DAMP.	CL		
				SILTY SAND, RED, COMPACT, DENSE, DAMP.	SM		
10				SAND, RED (2.5YR 4/8), COMPACT, DENSE, SLIGHTLY CEMENTED, BLACK MINERAL NODULES, FEW SILT; INTERBEDDED RED CLAY FROM 12-13 FEET; DAMP.	SP		10
15				SAND, RED (10R 5/6), DENSE, SLIGHTLY CEMENTED, LAMINATED TEXTURE, BLACK MINERALIZED NODULES, MOIST.	SP		15
				SILTY SAND, RED, FINE-GRAINED, ROUNDED, WITH CLAY PARTINGS, WET.	SM		
				Total depth = 18 feet			
20							20

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.10	BORING NUMBER: SB3
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: R NELSON	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 19	DRILLER: R KISSEE
BORING ELEVATION (ft-MSL): 1242.109	DRILLING RIG: B-53
EAST COORDINATE: 2187246.941	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155977.246	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/03/93	END DRILLING: 11/03/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				SILTY CLAY SOIL, BROWN, DRY.	CLML		BOREHOLE DIA. = 6.5"
				SILT AND CLAY, DARK RED, NON-PLASTIC, VERY FIRM TO HARD, BLOCKY, TRACE FINE-GRAINED SAND, DRY.	MLCL		
5				SILT AND CLAY, DARK RED, PLASTIC, SOFT, FEW FINE-GRAINED SAND SEAMS, DAMP.	MLCL	5	
10				SHELBY TUBE GEOTECHNICAL SAMPLE.	NSNR	10	
				SILT AND CLAY, SAME AS ABOVE, VERY DAMP TO SLIGHTLY MOIST.	MLCL		
15				SILT AND CLAY, DARK RED, VERY SOFT, SOME VERY FINE-GRAINED SAND AND OCCASIONAL FINE-GRAINED SAND POCKETS, WET.	MLCL	15	
20				Total depth = 19 feet		20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: 124.10	BORING NUMBER: SB4
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0108, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: R NELSON	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 14	DRILLER: R KISSEE
BORING ELEVATION (ft-MSL): 1242.739	DRILLING RIG: B-53
EAST COORDINATE: 2187230.76	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 156000.113	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/02/93	END DRILLING: 11/02/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HOSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				CLAY, DARK RED, HARD, BLOCKY, BRITTLE, OCCASIONAL ROCK DEBRIS.	CL		BOREHOLE DIA. = 6.5"
5			0	SILTY SAND, DARK RED, VERY FINE TO FINE-GRAINED, OCCASIONAL MEDIUM-GRAINED LAYERS (.2-.3 FEET THICK), TRACE GRAVEL, SOME CEMENTED SAND FRAGMENTS, HARD, DAMP.	SM	5	
				CLAY, VERY FIRM, WITH INTERBEDDED SAND.	CL		
10			0	SAND, DARK RED AND REDDISH YELLOW (5YR 7/6), FINE TO MEDIUM-GRAINED, LOOSE, PLATY LITHIFICATION, INTERBEDDED SILT UP TO 1 FEET THICK, DAMP.	SP	10	
				SAND, SAME AS ABOVE, SLIGHTLY MOIST.	SP		
15				Total depth = 14 feet		15	
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.10	BORING NUMBER: SB5
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: R NELSON	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 18	DRILLER: R KISSEE
BORING ELEVATION (ft-MSL): 1243.064	DRILLING RIG: B-53
EAST COORDINATE: 2187224.947	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 156047.497	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/01/93	END DRILLING: 11/01/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				SAND AND SILT, DARK RED (2.5YR 4/6), LITTLE CLAY, FIRM; SAND IS VERY FINE-GRAINED, LOOSE, DRY.	SPML		BOREHOLE DIA. = 6.5"
5				SILT AND CLAY, DARK RED, FIRM, SLIGHTLY PLASTIC, WITH INTERBEDDED FINE TO MEDIUM-GRAINED SAND, LOOSE, DRY.	MLCL	5	
				SILT, DARK RED, SOME CLAY, NON-PLASTIC, VERY FIRM, DRY.	ML		
10			0	SILTY SAND, DARK RED, VERY FINE TO FINE-GRAINED WITH SOME FINE TO MEDIUM-GRAINED ZONES, SOFT, DRY.	SM	10	
				SILTY SAND, SAME AS ABOVE, WITH SOME PLATY LITHIFICATION, MOIST.	SM		
15				SILTY SAND, SAME AS ABOVE, WET.	SM	15	
				Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.11	BORING NUMBER: SB1
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 10	DRILLER: R KISSEE
BORING ELEVATION (ft-MSL): 1242.36	DRILLING RIG:
EAST COORDINATE: 2187175.7	DRILLING METHOD: SOLID STEM AUGER
NORTH COORDINATE: 156045.83	SAMPLING METHOD: HAND AUGER
BEGIN DRILLING: 11/17/93	END DRILLING: 11/17/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				SILTY SAND, DARK RED (2.5YR 4/8), TINTS OF YELLOW AND LIGHT GREY, FINE-GRAINED, POORLY GRADED, SUBANGULAR TO SUBROUNDED, LOOSE, DRY.	SM		BOREHOLE DIA. = 3"
5	X	■		SAND, FINE-GRAINED, DRY.	SP	5	
10	X	■		Total depth = 10 feet		10	
15						15	
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.11	BORING NUMBER: SB2
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: R NELSON	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 17.5	DRILLER: R KISSEE
BORING ELEVATION (ft-MSL): 1242.327	DRILLING RIG: B-53
EAST COORDINATE: 2187221.472	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 156020.668	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/03/93	END DRILLING: 11/03/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				NO RECOVERY.	NSNR		BOREHOLE DIA. = 6.5"
5				SILTY CLAY, DARK RED (2.5YR 4/6), SLIGHTLY TO MODERATELY PLASTIC, SOFT TO FIRM, BLOCKY, INTERBEDDED MEDIUM-GRAINED SAND (0.8 FEET THICK), DAMP.	CLML	5	
10			1	SAND, RED TO DARK RED (2.5YR 4/6), FINE TO MEDIUM-GRAINED, SOFT, LOOSE, SOME PLATY LITHIFICATION, FEW CLAY SEAMS AND INTERBEDS, DAMP.	SP	10	
15				SAND, DARK RED TO REDDISH YELLOW, FINE TO MEDIUM-GRAINED, SOFT, LOOSE, SOME SILT, PLATY LITHIFICATION FROM 13-14 FEET, MOIST AT 13 FEET, WET AT 15 FEET.	SP	15	
				Total depth = 17.5 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.11	BORING NUMBER: SB3
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 18	DRILLER: R KISSEE
BORING ELEVATION (ft-MSL): 1241.561	DRILLING RIG: B-24
EAST COORDINATE: 2187184.637	DRILLING METHOD: SOLID STEM AUGER
NORTH COORDINATE: 155949.638	SAMPLING METHOD: SPLIT SPOON
BEGIN DRILLING: 11/08/93	END DRILLING: 11/08/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				DRILLED FROM 0-2 FEET.	NSNR		BOREHOLE DIA. = 3.5"
	X			SILTY SAND, DARK RED (2.5YR 5/8) AND LIGHT GRAY (10YR 7/2) WITH TINTS OF YELLOW, FINE-GRAINED, POORLY GRADED, SUBANGULAR TO SUBROUNDED, SOFT, LOOSE, DAMP; WITH OCCASIONAL CEMENTED SAND LENSES AND BLACK STAINING.	SM		
5	X	■	.4			5	
	X			SAND, RED (2.5YR 5/8), FINE-GRAINED, POORLY GRADED, SLIGHTLY CEMENTED, SOFT, LOOSE, DAMP.	SP		Blow counts: 100 blows for 6 inches.
				DRILLED FROM 7 TO 8 FEET.	NSNR		
	X	■		SAND, SAME AS ABOVE WITH OCCASIONAL CLAY LENSES.	SP		
				DRILLED FROM 9-10 FEET.	NSNR		
10	X			SAND, SAME AS ABOVE WITH TINTS OF YELLOW, DAMP.	SP		10
				DRILLED TO 18 FEET (WET AT 16 FEET).	NSNR		
15							15
				Total depth = 18 feet			
20							20

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.11	BORING NUMBER: SB4
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 9	DRILLER: B KNOPF
BORING ELEVATION (ft-MSL): 1234.52	DRILLING RIG: NONE
EAST COORDINATE: 2187160	DRILLING METHOD: SOLID STEM AUGER
NORTH COORDINATE: 155995.6	SAMPLING METHOD: HAND AUGER
BEGIN DRILLING: 11/16/93	END DRILLING: 11/16/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				SILTY SAND, DARK RED (2.5YR 4/8), TINTS OF YELLOW, FINE-GRAINED, POORLY GRADED, LOOSE, OCCASIONAL BROWN CLAY LENSES, WET AT 8 FEET.	SM		BOREHOLE DIA. = 3" Hand augered to 5 ft BGL.
5						5	
				Total depth = 9 feet			
10						10	
15						15	
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.12	BORING NUMBER: SB1
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0108, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: J OSWEILER	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 18	DRILLER: R KISSEE
BORING ELEVATION (ft-MSL): 1240.029	DRILLING RIG: B-53
EAST COORDINATE: 2187283.217	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155930.516	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 10/22/93	END DRILLING: 10/22/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				DRILLED FROM 0-2 FEET.	NSNR		BOREHOLE DIA. = 6.5"
				SHELBY TUBE GEOTECHNICAL SAMPLE.	NSNR		
5			0	CLAY, RED (10R 4/8), MEDIUM PLASTICITY, MOTTLED, SOME SAND, MOIST.	CL		5
10			0	CLAYEY SAND, RED (2.5YR 4/6), FINE-GRAINED, ROUNDED, MOTTLED WITH BLACK STAINING, MOIST.	SC		10
15			0	CLAY, DARK RED (2.5YR 4/6), SLIGHTLY PLASTIC TO PLASTIC, LITTLE SAND, WET.	CL		15
				SAND, DARK RED (2.5YR 4/8) WITH SOME MAROON BANDING, FINE-GRAINED, POORLY GRADED, COMPACT, WET.	SP		
				Total depth = 18 feet			
20							20

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.12	BORING NUMBER: SB2
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1240.548	DRILLING RIG: B-61
EAST COORDINATE: 2187242.171	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155904.358	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 10/25/93	END DRILLING: 10/25/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
	X			SANDY SILT, DARK RED (2.5YR 4/8), VERY SOFT, LOOSE, WITH OCCASIONAL FINE-GRAINED SAND LENSES, DRY.	ML		BOREHOLE DIA. = 6.5"
5	X	X		SHELBY TUBE GEOTECHNICAL SAMPLE.	NSNR	5	
	X			CLAY, RED (2.5YR 4/8), LOW TO MEDIUM PLASTICITY, VERY SOFT, WITH OCCASIONAL MEDIUM-GRAINED SAND LENSES AND ABUNDANT DARK ORGANIC MATERIAL, DAMP TO MOIST.	CL		
10		X				10	
				SANDY CLAY, RED, SAND IS MEDIUM-GRAINED, WET.	CLSP		
15	X	X		CLAY, RED, MEDIUM TO HIGH PLASTICITY, VERY SOFT, FEW MEDIUM TO COARSE-GRAINED SAND, ABUNDANT ORGANIC MATERIAL, WET.	CL	15	
				SILTY SAND, RED, FINE-GRAINED, WET.	SM		
				Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.12	BORING NUMBER: SB3
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0108, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: J OSWEILER	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 18	DRILLER: R KISSEE
BORING ELEVATION (ft-MSL): 1240.039	DRILLING RIG: B-53
EAST COORDINATE: 2187232.631	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155885.128	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 10/25/93	END DRILLING: 10/25/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				SILTY SAND, RED (10R 4/6), FINE TO VERY FINE-GRAINED, SUBANGULAR TO SUBROUNDED, DENSE, FEW CLAY, DAMP.	SM		BOREHOLE DIA. = 6.5"
5				CLAY, RED (2.5YR 4/8), MEDIUM PLASTICITY, FIRM, WITH OCCASIONAL FINE-GRAINED SAND, DRY.	CL	5	
				SHELBY TUBE GEOTECHNICAL SAMPLE.	NSNR		
				NO RECOVERY.	NSNR		
			2	CLAYEY SILT, RED (2.5YR 5/8), NON-PLASTIC, DENSE, MOIST.	MLCL	10	
			0	SILTY CLAY, DARK RED (2.5YR 3/6), PLASTIC, SOFT, MOTTLED, MOIST TO WET.	CLML	15	
				CLAYEY SAND, RED, FINE-GRAINED, ROUNDED, COMPACT, DENSE, WET.	SC		
				Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.12	BORING NUMBER: SB4
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: J OSWEILER	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 18	DRILLER: R KISSEE
BORING ELEVATION (ft-MSL): 1239.58	DRILLING RIG: B-53
EAST COORDINATE: 2187186.019	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155870.797	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 10/26/93	END DRILLING: 10/26/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				SILTY CLAY, RED (2.5YR 4/8), NON-PLASTIC TO SLIGHTLY PLASTIC, FIRM, SOME FINE-GRAINED SAND, DRY TO DAMP.	CLML		BOREHOLE DIA. = 6.5"
5				SILT, RED (10R 4/6), FRIABLE, DAMP.	ML		
				SHELBY TUBE GEOTECHNICAL SAMPLE.	NSNR		
10				CLAY, DARK RED (10R 3/6), LOW TO HIGH PLASTICITY, SANDY, MOTTLED, MOIST TO WET.	CL		
				SILTY SAND, RED, FINE-GRAINED, ROUNDED, COMPACT.	SM		
15				CLAY, RED, PLASTIC, VERY FIRM, MOTTLED.	CL		
				SAND, STRONG BROWN (7.5YR 5/8) AND YELLOW WITH MAROON BANDING, FINE-GRAINED, ROUNDED, DENSE, BLACK MINERALIZATION, WET.	SP		
				Total depth = 18 feet			
20							

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.12	BORING NUMBER: SB5
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 15	DRILLER: B KNOPF
BORING ELEVATION (ft-MSL): 1240.64	DRILLING RIG: B-24
EAST COORDINATE: 2187193.2	DRILLING METHOD: SOLID STEM AUGER
NORTH COORDINATE: 155922.58	SAMPLING METHOD: SPLIT SPOON
BEGIN DRILLING: 11/09/93	END DRILLING: 11/09/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				DRILLED FROM 0 TO 4 FEET.	NSNR		BOREHOLE DIA. = 3.5"
5	X			SILTY SAND, RED (2.5YR 5/8), FINE-GRAINED, POORLY GRADED, FIRM, DRY; WITH 30-40% SILT MATRIX.	SM		Blow counts: 1-3-3-6
	X	X		SILTY SAND, SAME AS ABOVE WITH INTERBEDDED CLAY, PLASTIC, FIRM, ABUNDANT ORGANIC MATERIAL, TRACE GRAVELLY SAND, DRY.	SM		Blow counts: 8-8-11-23
	X			SAND, RED (2.5YR 5/8), FINE-GRAINED, POORLY GRADED, SUBANGULAR TO SUBROUNDED, LOOSE, SOFT, DRY.	SP		Up to 10 ppm inside hole. Blow counts: 70 blows for 6 inches.
10	X						Blow counts: 50 blows for 2 inches.
				DRILLED TO 15 FEET.	NSNR		
15				Total depth = 15 feet			
20							

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.12	BORING NUMBER: SB6
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: R NELSON	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 17.5	DRILLER: R KISSEE
BORING ELEVATION (ft-MSL): 1241.936	DRILLING RIG: B-53
EAST COORDINATE: 2187223.845	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155969.886	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/03/93	END DRILLING: 11/03/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				SAND, LIGHT BROWN (7.5YR 6/4), SLIGHTLY PLASTIC, SOFT, SOME CLAY AND SILT, DRY.	SP		BOREHOLE DIA. = 6.5"
				SAND, DARK RED (2.5YR 4/6), VERY FINE TO FINE-GRAINED, SOME SILT, LOOSE, DRY.	SP		
			0	SHELBY TUBE GEOTECHNICAL SAMPLE.	NSNR		
5						5	
				SILTY SAND, DARK RED AND LIGHT BROWN, VERY FINE TO FINE-GRAINED, LOOSE, DRY.	SM		
			0	SAND AND CLAY INTERBEDDED, DARK RED, SAND IS VERY FINE TO MEDIUM-GRAINED, LOOSE, WITH SOME BLACK STAINING AND SOME SILT; CLAY IS SLIGHTLY PLASTIC, SOFT TO FIRM, WITH SAND SEAMS; DAMP.	SPCL		
10						10	
				SAND, DARK RED, FINE TO MEDIUM-GRAINED, LOOSE, SOFT, SOME PLATY LITHIFICATION, SOME SILT, HORIZONTAL LAMINATIONS, DAMP.	SP		
				SAND, SAME AS ABOVE, MOIST.	SP		
15				SAND, DARK RED, FINE TO MEDIUM-GRAINED, SOFT, LOOSE WITH SOME PLATY LITHIFICATION, FRIABLE, SOME SILT, WET AT 15 FEET.	SP		
						15	
				Total depth = 17.5 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.19	BORING NUMBER: SB1
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0108, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: R NELSON	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1239.87	DRILLING RIG: B-61
EAST COORDINATE: 2187108.73	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155680.43	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/11/93	END DRILLING: 11/11/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				ASPHALT	NACM		BOREHOLE DIA. = 6.5"
	X		120	SILTY SAND, TAN, GRAY AND RED, VERY FINE-GRAINED, POORLY GRADED, LOOSE, SOFT, MOIST.	SM		
				SILTY CLAY, DARK RED AND DARK BROWN, PLASTIC, SOFT, DAMP; WITH FEW MEDIUM-GRAINED SAND SEAMS	CLML		
5		X	150	SILTY CLAY, DARK RED, MODERATELY FIRM, VERY PLASTIC, SOFT, TRACE SAND AND GRAVEL, DAMP.	CLML	5	
10	X		130	CLAY, DARK RED, FIRM, PLASTIC, WET.	CL	10	
	X		350	SILTY SAND, DARK RED, VERY FINE TO FINE-GRAINED, PLATY, LITHIFIED, MOIST.	SM		
15	X	X	10	SILTY SAND, SAME AS ABOVE, BECOMES MEDIUM-GRAINED AT 15 FEET.	SM	15	
				Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.19	BORING NUMBER: SB2
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: R NELSON	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1239.685	DRILLING RIG: B-61
EAST COORDINATE: 2187123.032	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155652.415	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/07/93	END DRILLING: 11/07/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				SANDY FILL MATERIAL.	SW		BOREHOLE DIA. = 6.5"
			320	SILTY CLAY, DARK RED AND BLACK, MODERATELY PLASTIC, FIRM, DAMP.	CLML		
5						5	
			180				
10						10	
			390	SILTY SAND, DARK RED, VERY FINE-GRAINED, SOFT, LOOSE, MOIST.	SM		
15				SILTY SAND, SAME AS ABOVE WITH OCCASIONAL MEDIUM-GRAINED SAND LAYER (0.2-0.5 FEET THICK), WET.	SM	15	
			50	Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.19	BORING NUMBER: SB3
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0108, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: R NELSON	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1239.899	DRILLING RIG: B-61
EAST COORDINATE: 2187120.469	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155612.97	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/06/93	END DRILLING: 11/06/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				FILL SAND.	NSNR		BOREHOLE DIA. = 6.5"
			125	SILTY CLAY, DARK RED AND BLACK, PLASTIC, MODERATELY FIRM, DAMP.	CLML		
5			220			5	
10						10	
			250	SILTY SAND, DARK RED, VERY FINE-GRAINED, SOFT, LITTLE CLAY, MOIST.	SM		
			60				
15						15	
				SILTY SAND, DARK RED, VERY FINE TO FINE-GRAINED, SOFT, LITTLE CLAY, WET.	SM		
			60				
				Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.19	BORING NUMBER: SB4
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: R NELSON	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1241.133	DRILLING RIG: B-61
EAST COORDINATE: 2187087.532	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155582.789	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/06/93	END DRILLING: 11/06/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				ASPHALT AND ROAD BASE.	NACM		BOREHOLE DIA. = 6.5"
				CLAY, DARK RED AND BROWN, HIGHLY PLASTIC, SOFT, LITTLE SILT, DAMP.	CL		
5				CLAY, DARK RED AND BROWN, PLASTIC, FIRM, SOME SILT, DAMP.	CL	5	
			100				
10			10			10	
			70				
15				SILTY CLAY, DARK RED, PLASTIC, SOFT, WET.	CLML	15	
				Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.19	BORING NUMBER: SB5
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: R NELSON	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1241.748	DRILLING RIG: B-61
EAST COORDINATE: 2187055.191	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155581.438	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/07/93	END DRILLING: 11/07/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
	X			ASPHALT AND ROAD BASE.	NACM		BOREHOLE DIA. = 6.5"
			90	SILTY CLAY, DARK RED, PLASTIC, SOFT TO MODERATELY FIRM, DAMP.	CLML		
5				SILTY CLAY, DARK RED AND BLACK, FIRM.	CLML	5	
			40	CLAY, DARK RED, PLASTIC, DAMP.	CL		
10			70			10	
				CLAY, SAME AS ABOVE, MOIST.	CL		
15			10	CLAY, SAME AS ABOVE, WET.	CL	15	
				Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.19	BORING NUMBER: SB6
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: R NELSON	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1242.441	DRILLING RIG: B-61
EAST COORDINATE: 2187013.239	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155581.617	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/06/93	END DRILLING: 11/06/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
	X			ASPHALT AND ROAD BASE.	NACM		BOREHOLE DIA. = 6.5"
			60	CLAY, DARK RED AND BLACK, PLASTIC, SOFT, SOME SILT, VERY FINE-GRAINED SAND SEAMS, DAMP.	CL		
5	X					5	
		X	100	CLAY, DARK RED, PLASTIC, FIRM, SOME SILT, DAMP.	CL		
10	X			SILTY CLAY, DARK RED, PLASTIC, MODERATELY FIRM, OCCASIONAL VERY FINE-GRAINED SAND, DAMP.		10	
			25		CLML		
15	X					15	
		X	5	SILTY CLAY, SAME AS ABOVE, WET.	CLML		
				Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.19	BORING NUMBER: SB7
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0108, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: R NELSON	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1244.062	DRILLING RIG: B-61
EAST COORDINATE: 2186964.495	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155616.797	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/07/93	END DRILLING: 11/07/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
	X			ASPHALT AND ROAD BASE.	NACM		BOREHOLE DIA. = 6.5"
			80	CLAY, DARK RED, PLASTIC, FIRM, BLOCKY, DRY.	CL		
5				SILT AND CLAY, BROWNISH-RED, SLIGHTLY PLASTIC, SOFT, DRY.	MLCL	5	
		X	100	CLAY, DARK RED, PLASTIC, FIRM, SLIGHTLY BLOCKY, SOME SILT, DRY.	CL		
10						10	
			100	SILTY SAND, DARK RED, VERY FINE-GRAINED, DAMP.	SM		
				NO RECOVERY.	NSNR		
15						15	
		X	140	SAND, DARK RED, MEDIUM-GRAINED, LOOSE, SOFT, SLIGHTLY CEMENTED, MOIST.	SP		
				Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: 124.19	BORING NUMBER: SB8
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: R NELSON	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1244.062	DRILLING RIG: B-61
EAST COORDINATE: 2186964.161	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155645.822	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/07/93	END DRILLING: 11/07/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				ASPHALT AND ROAD BASE.	NACM		BOREHOLE DIA. = 6.5"
			20	SILTY CLAY, DARK RED, SLIGHTLY PLASTIC, SOFT, DAMP.	CLML		
5			60			5	
10				SHELBY TUBE SAMPLE.	NSNR	10	
			80	SILTY CLAY, SAME AS ABOVE, DAMP.	CLML		
15			60			15	
				Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.19	BORING NUMBER: SB9
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: R NELSON	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1242.05	DRILLING RIG: B-61
EAST COORDINATE: 2187011.52	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155875.71	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/11/93	END DRILLING: 11/11/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				CONCRETE	NACM		BOREHOLE DIA. = 6.5"
				SILTY SAND, TAN AND GRAY LAYERED, SOFT, LOOSE, MOIST.	SM		
			150	SILTY CLAY, DARK RED, GRADES TO DARK BROWN AND BLACK IN PLACES, FIRM, PLASTIC, FEW VERY FINE-GRAINED SAND SEAMS AND POCKETS, DAMP.	CLML		
5						5	
			130				
10						10	
			150	SILTY CLAY, SAME AS ABOVE WITH ABUNDANT VERY FINE-GRAINED TAN SAND SEAMS AND POCKETS, DAMP.	CLML		
15						15	
			250	SANDY CLAY, PLASTIC, SOFT, WITH VERY FINE-GRAINED SAND, WET AT 15.5 FEET.	SPCL		
				Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: I24.19	BORING NUMBER: SB10
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: R NELSON	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1241.03	DRILLING RIG: B-61
EAST COORDINATE: 2187051.7	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155678.18	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/11/93	END DRILLING: 11/11/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				ASPHALT	NACM		BOREHOLE DIA. = 6.5"
				SILTY SAND, TAN, GRAY AND RED, VERY FINE TO FINE-GRAINED, POORLY GRADED, LOOSE, MOIST.	SM		
			100	SILTY CLAY, BROWN AND BLACK, PLASTIC, SOFT, MOIST; WITH SOME VERY FINE TO FINE-GRAINED SAND.	CLML		
5		X	60	SILTY CLAY, DARK RED, PLASTIC, MODERATELY FIRM, DAMP TO MOIST.	CLML	5	
10			20	SILTY SAND, DARK RED, VERY FINE TO FINE-GRAINED, SOFT, LITHIFIED, PLATY, MOIST.	SM	10	
			70				
15			70	SILTY SAND, SAME AS ABOVE EXCEPT MEDIUM-GRAINED.	SM	15	
		X		Total depth = 18 feet			
20						20	

SOIL BORING LOG

TINKER AIR FORCE BASE

SITE LOCATION: RCP	BORING NUMBER: 1SB1
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 8	DRILLER: B KNOPF
BORING ELEVATION (ft-MSL): 1250.95	DRILLING RIG: B-24
EAST COORDINATE: 2186866.2	DRILLING METHOD: SOLID STEM AUGER
NORTH COORDINATE: 155889.4	SAMPLING METHOD: SPLIT SPOON
BEGIN DRILLING: 11/12/93	END DRILLING: 11/12/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
	X			GRAVEL FILL MATERIAL	NACM		BOREHOLE DIA. = 3.5" 300 ppm scan.
	X			CLAY, RED (2.5YR 5/8), FIRM, DRY.	CL		
	X			CLAY AND GRAVEL FILL MATERIAL.	CLGW		10-20 ppm inside hole. 200 ppm scan of sample.
5				NO RECOVERY	NSNR		
	X	X		CLAY AND GRAVEL FILL MATERIAL, RED AND BLACK, CHEMICAL ODOR, SOFT, WET.	CLGW		
				Total depth = 8 feet			
10							
15							
20							

SOIL BORING LOG

TINKER AIR FORCE BASE

SITE LOCATION: RCP	BORING NUMBER: 1SB2
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 10	DRILLER: R KISSEE
BORING ELEVATION (ft-MSL): 1249.93	DRILLING RIG: B-24
EAST COORDINATE: 2186865.56	DRILLING METHOD: SOLID STEM AUGER
NORTH COORDINATE: 155872.08	SAMPLING METHOD: SPLIT SPOON
BEGIN DRILLING: 11/10/93	END DRILLING: 11/10/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				DRILLED FROM 0-2 FEET.	NSNR		BOREHOLE DIA. = 3.5"
	X		500	SANDY CLAY, BLACK, TINT OF RED, TRACE GRAVEL, DRY.	CLSP	◆	1000 ppm inside hole. 0 ppm benzene, 1.5 ppm vinyl chloride.
5	X	X		CLAY, RED (2.5YR 5/8) AND BLACK, SOFT TO FIRM, PLASTIC, DAMP.	CL		Up to 1000 ppm inside hole at 4 feet BGL.
	X	X		CLAY, DARK RED (2.5YR 4/8) AND BLACK, NON-PLASTIC, HARD, DRY; WITH TRACE GRAVEL AT 6.0 TO 6.5 FEET.	CL		80-100 ppm inside hole at 8 feet BGL.
	X			DRILLED TO 10 FEET.	NSNR		
10				Total depth = 10 feet			
15							
20							

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: RCP	BORING NUMBER: 1SB3
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 7	DRILLER: R KISSEE
BORING ELEVATION (ft-MSL): 1250.14	DRILLING RIG: B-24
EAST COORDINATE: 2186855.47	DRILLING METHOD: SOLID STEM AUGER
NORTH COORDINATE: 155875.41	SAMPLING METHOD: SPLIT SPOON
BEGIN DRILLING: 11/10/93	END DRILLING: 11/10/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
	X	■		CLAY AND GRAVEL FILL MATERIAL, RED (2.5YR 6/8), MOIST.	CLGW	◆	BOREHOLE DIA. = 3.5" 1000 ppm scan.
	X			SAND, PALE GREEN (5G 7/2), MEDIUM-GRAINED, POORLY GRADED, WELL ROUNDED, WET AT 3 FEET.	SP	◆	90 ppm scan.
5	X	■		SAND AND CLAY FILL MATERIAL, CLAY IS DARK REDDISH BROWN (5YR 3/4), SAND IS PALE GREEN AND MEDIUM TO COARSE-GRAINED, VERY WET.	SWCL	◆	5
				DRILLED TO 7 FEET.	NSNR		
				Total depth = 7 feet			
10							10
15							15
20							20

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: S32.1	BORING NUMBER: SB1
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: R NELSON	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 18	DRILLER: R KISSEE
BORING ELEVATION (ft-MSL): 1249.554	DRILLING RIG: B-53
EAST COORDINATE: 2186930.9	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155918.441	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 10/27/93	END DRILLING: 10/27/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
			.5	SILT, RED (2.5YR 5/8), MEDIUM-GRAINED SAND INTERBED (0.2 FEET THICK), DRY.	ML		BOREHOLE DIA. = 6.5"
5				CLAY, DARK RED (2.5YR 3/6), SLIGHTLY PLASTIC TO PLASTIC, FIRM, BLOCKY, LITTLE SILT, DRY.	CL	5	
10			2	CLAY, DARK RED, NON-PLASTIC, SOFT, WITH SOME SILT, DAMP.	CL	10	Tried Shelby tube at 8 feet BGL - 4 inches of recovery.
15			2	SAND, DARK RED, OCCASIONAL CLAY SEAMS, SLIGHTLY LITHIFIED IN PLACES, DRY.	SP	15	
				SAND, SAME AS ABOVE WITH NO CLAY, DRY.	SP		
				Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: S32.1	BORING NUMBER: SB2
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: J OSWEILER	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 18	DRILLER: R KISSEE
BORING ELEVATION (ft-MSL): 1249.598	DRILLING RIG: B-53
EAST COORDINATE: 2186960.792	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155883.213	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 10/26/93	END DRILLING: 10/26/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				SILTY CLAY, RED (2.5YR 4/8), LOW PLASTICITY, ROOTS, DRY TO DAMP.	CLML		BOREHOLE DIA. = 6.5"
				SILT, RED, NON-PLASTIC, WITH CONCRETE FRAGMENTS, DRY.	ML		
5				CLAY, BROWN (7.5YR 4/6) AND YELLOWISH RED (5YR 4/6), HIGH PLASTICITY, WITH FEW SILT AND SAND, DAMP TO MOIST.	CL		
10				SHELBY TUBE GEOTECHNICAL SAMPLE.	NSNR		
				SILTY CLAY, RED, SLIGHTLY PLASTIC, DRY.	CLML		
15				CLAYEY SAND, RED, VERY FINE-GRAINED, SLIGHTLY CEMENTED IN PLACES, DRY.	SC		
				SAND, RED (10R 5/8), FINE-GRAINED, SLIGHTLY CEMENTED, DAMP.	SP		
				Total depth = 18 feet			
20							

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: S32.1	BORING NUMBER: SB3
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: R NELSON	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 18	DRILLER: R KISSEE
BORING ELEVATION (ft-MSL): 1251.109	DRILLING RIG: B-53
EAST COORDINATE: 2186929.688	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155895.436	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 10/27/93	END DRILLING: 10/27/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				SILTY CLAY, DARK RED (2.5YR 4/8), VERY FIRM, DRY.	CLML		BOREHOLE DIA. = 6.5"
				SILTY SAND, DARK RED, FEW CLAYEY POCKETS, SOME LITHIFICATION, DRY.	SM		
5				SHELBY TUBE GEOTECHNICAL SAMPLE.	NSNR	5	
10				CLAY, DARK RED (2.5YR 4/8), SLIGHTLY PLASTIC, VERY FIRM, BLOCKY, FEW VERY FINE TO FINE-GRAINED SAND SEAMS, DRY TO DAMP.	CL	10	
15				SAND, DARK RED, VERY FINE TO FINE-GRAINED, SOFT, SLIGHTLY CEMENTED IN PLACES, WITH SOME BLOCKY CLAY SEAMS, DRY.	SP	15	
				Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: S32.2	BORING NUMBER: SB2
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1242.752	DRILLING RIG: B-61
EAST COORDINATE: 2187009.92	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155901.102	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 10/27/93	END DRILLING: 10/27/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				SHELBY TUBE GEOTECHNICAL SAMPLE.	NSNR		BOREHOLE DIA. = 6.5"
				SANDY SILT, RED (10R 4/8), FINE-GRAINED, DRY.	ML		0 ppm PID readings throughout entire depth.
5				SILTY CLAY, RED, NON-PLASTIC, SOFT TO VERY HARD, DRY.	CLML	5	
				SAND, DARK RED (2.5YR 4/8), YELLOW (5Y 8/8) AND YELLOWISH RED (5YR 5/8), FINE-GRAINED, POORLY GRADED, SUBROUNDED TO ROUNDED, VERY SOFT, DRY.	SP		
10				SILTY SAND, ALTERNATING BANDS OF YELLOW AND DARK RED, FINE-GRAINED, POORLY GRADED, ROUNDED, VERY SOFT, SOME SILT, DAMP TO MOIST.	SM	10	
15				SILTY SAND, OLIVE YELLOW (2.5Y 6/8) AND RED (10R 5/6), FINE-GRAINED, POORLY GRADED, WELL-ROUNDED, VERY SOFT, SOME SILT, WITH BLACK STAINING, VERY MOIST.	SM	15	
				Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: S32.2	BORING NUMBER: SB3
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1247.126	DRILLING RIG: B-61
EAST COORDINATE: 2186949.106	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155928.884	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 10/27/93	END DRILLING: 10/27/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				CLAY, RED (10R 5/8) AND OLIVE BROWN (2.5Y 4/4), MEDIUM PLASTICITY, FIRM, TRACE GRAVEL, DAMP.	CL		BOREHOLE DIA. = 6.5"
5				SHELBY TUBE GEOTECHNICAL SAMPLE.	NSNR	5	
				CLAY, STRONG BROWN (7.5YR 5/8), MEDIUM PLASTICITY, SOFT, WITH YELLOWISH GRAY SAND LENSES, DRY.	CL		
				SILTY CLAY, RED (10R 5/8), NON-PLASTIC, FIRM, DRY.	CLML		
10						10	
				SILTY SAND, RED, FINE-GRAINED, SOFT, ROUNDED, DAMP.	SM		
			.2	CLAYEY SILT, RED, NON-PLASTIC, FIRM, WITH OCCASIONAL SAND LENS, DRY.	MLCL		
15						15	
				SILTY SAND, VERY PALE BROWN (10YR 7/4) AND RED (10R 4/8), FINE-GRAINED, POORLY GRADED, SUBROUNDED, VERY SOFT, WITH SLIGHTLY CEMENTED SAND LAYERS (1 CM THICK), DRY.	SM		
				Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: S32.3	BORING NUMBER: SB1
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: R NELSON	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 10	DRILLER: R KISSEE
BORING ELEVATION (ft-MSL): 1246.166	DRILLING RIG: B-24
EAST COORDINATE: 2186986.096	DRILLING METHOD: SOLID STEM AUGER
NORTH COORDINATE: 155997.899	SAMPLING METHOD: SPLIT SPOON
BEGIN DRILLING: 10/27/93	END DRILLING: 10/27/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
	X		4	CLAY, DARK RED, VERY FIRM TO HARD, BLOCKY, DRY.	CL		BOREHOLE DIA. = 3.5"
	X		1	SILTY CLAY, DARK RED, PLASTIC, FIRM, BLOCKY, SOFT SANDY LAYERS, DRY.	CLML		
5	X	X	1			5	
	X		2	SILTY CLAY, SAME AS ABOVE WITH OCCASIONAL GRAY CLAY AND FINE-GRAINED SAND SEAMS, DRY.	CLML		
				DRILLED FROM 8.5-9.5 FEET.	NSNR		
10	X	X		SILTY CLAY, SAME AS ABOVE, DRY.	CLML	10	
				Total depth = 10 feet			
15						15	
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: S32.3	BORING NUMBER: SB3
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 3.5	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1247.34	DRILLING RIG: B-61
EAST COORDINATE: 2186946.86	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155956.58	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/05/93	END DRILLING: 11/05/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				ASPHALT.	NACM		BOREHOLE DIA. = 6.5"
				CLAY, BROWN, PLASTIC, DRY.	CL		
				CONCRETE.	NACM		
				Total depth = 3.5 feet			
5							
10							
15							
20							

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: S32.3	BORING NUMBER: SB4
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: R NELSON	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 18	DRILLER: R KISSEE
BORING ELEVATION (ft-MSL): 1247.348	DRILLING RIG: B-53
EAST COORDINATE: 2186949.14	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155982.666	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 10/27/93	END DRILLING: 10/27/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				CONCRETE AND ROAD BASE.	NACM		BOREHOLE DIA. = 6.5"
				NO RECOVERY.	NSNR		
5			0	SANDY CLAY, DARK RED (2.5YR 3/6), NON-PLASTIC, VERY FIRM, BLOCKY, DRY.	CLSP	5	
10				SILTY SAND, DARK RED, FINE TO MEDIUM-GRAINED, SOFT, FEW SLIGHTLY CEMENTED FRAGMENTS, DAMP.	SM	10	
				SAND AND CLAY INTERBEDDED, DARK RED, NON-PLASTIC, VERY FIRM, VERY COMPACT, DRY.	SPCL		
15				SAND, DARK RED, VERY FINE TO FINE-GRAINED, SOFT, LITTLE CLAY IN POCKETS AND LAYERS, SOME CEMENTATION, DAMP.	SP	15	
				Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: S32.4	BORING NUMBER: SB1
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: R NELSON	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 11.5	DRILLER: R KISSEE
BORING ELEVATION (ft-MSL): 1241.626	DRILLING RIG: B-24
EAST COORDINATE: 2187031.165	DRILLING METHOD: SOLID STEM AUGER
NORTH COORDINATE: 156046.795	SAMPLING METHOD: SPLIT SPOON
BEGIN DRILLING: 11/01/93	END DRILLING: 11/01/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HOSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				DRILLED FROM 0-2 FEET.	NSNR		BOREHOLE DIA. = 3.5"
	X			CLAY, DARK RED (2.5YR 4/6), SLIGHTLY PLASTIC TO PLASTIC, FIRM, CRUMBLY, LITTLE SILT, DRY TO DAMP.	CL		
	X		.4				
5						5	
	X						
	X	X	0	SAND, REDDISH YELLOW (7.5YR 7/8), FINE TO MEDIUM-GRAINED, SOFT, LOOSE, DAMP TO MOIST.	SP		
	X			DRILLED FROM 8-9 FEET.	NSNR		
	X			SAND AND CLAY, DARK RED, PLASTIC, SOFT, SAND IS VERY FINE-GRAINED, DAMP TO MOIST.	SPCL		
10				DRILLED TO 11.5 FEET.	NSNR	10	Very little cuttings.
				Total depth = 11.5 feet			
15						15	
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: S32.4	BORING NUMBER: SB2
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1240.587	DRILLING RIG: B-61
EAST COORDINATE: 2187066.966	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 156018.65	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 10/21/93	END DRILLING: 10/21/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
	X	■		SILTY SAND, DARK RED (10R 4/6), VERY FINE-GRAINED, POORLY GRADED, SUBROUNDED TO ROUNDED, DRY.	SM		BOREHOLE DIA. = 6.5"
5	X	■		SHELBY TUBE GEOTECHNICAL SAMPLE.	NSNR		5
	X		3	SILTY SAND, DARK RED WITH BANDS OF BROWNISH YELLOW (10YR 6/6) AND LIGHT GRAY (5Y 7/2), VERY FINE TO FINE-GRAINED, POORLY GRADED, SUBROUNDED, WITH OCCASIONAL CEMENTED LAYERS AND MEDIUM-GRAINED SAND INTERBEDS, DRY.	SM		
10				DRILLED FROM 9.5-11 FEET.	NSNR		10 Hard drilling
	X			SAND, SAME AS ABOVE, DRY.	SP		40 ppm scan of sample.
				DRILLED FROM 11.5-13 FEET.	NSNR		Hard drilling - cemented sand.
15	X			SAND, DARK RED AND BROWNISH YELLOW, FINE-GRAINED, POORLY GRADED, SUBROUNDED TO ROUNDED, WITH BLACK STAINING AND CEMENTED SAND LAYERS UP TO 1 CM IN THICKNESS, MOIST.	SP		15
				SAND, SAME AS ABOVE EXCEPT FINE TO MEDIUM-GRAINED, ROUNDED, WET.	SP		
				Total depth = 18 feet			
20							20

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: S32.4	BORING NUMBER: SB3
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1241.099	DRILLING RIG: B-61
EAST COORDINATE: 2187049.503	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155987.946	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 10/20/93	END DRILLING: 10/20/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
	X		0	SILTY SAND, DARK RED (10R 4/6), FINE-GRAINED, POORLY GRADED, CEMENTED IN PLACES, FRIABLE, DRY.	SM		BOREHOLE DIA. = 6.5"
	X						Blow counts: 9-15-14-15
	X						Blow counts: 10-19-19-9
5						5	
	X	■	0	SAND, DARK RED, FINE-GRAINED, SUBANGULAR TO SUBROUNDED, LARGE CEMENTED SAND LENSES, OCCASIONAL CLAY BALL, DRY TO DAMP.	SP		Blow counts: 8-12-12-9
							Blow counts: 6-6-6-8
10	X			SILTY SAND, DARK RED, FINE-GRAINED, POORLY GRADED, VERY DENSE, COMPACT, CEMENTED IN PLACES, DRY TO DAMP.	SM	10	Blow counts: 16 blows for 4 inches.
				NO RECOVERY.	NSNR		Blow counts: 25 blows for 4 inches.
15	X	■		SAND, DARK RED AND BROWNISH YELLOW (10YR 6/6), COLORS BANDED IN PLACES, FINE TO MEDIUM-GRAINED, SUBANGULAR TO SUBROUNDED, CEMENTED SAND FRAGMENTS, FRIABLE, WET AT 16 FEET.	SP	15	
				NO RECOVERY.	NSNR		
				Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: S32.4	BORING NUMBER: SB4
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1240.738	DRILLING RIG: B-61
EAST COORDINATE: 2187062.174	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155950.959	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 10/21/93	END DRILLING: 10/21/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
	X		2	SILT, DARK RED (10R 4/6), HARD, DENSE, LITTLE FINE-GRAINED SAND, DRY.	ML		BOREHOLE DIA. = 6.5"
5				NO RECOVERY.	NSNR		
	X	■		SHELBY TUBE GEOTECHNICAL SAMPLE.	NSNR		
	X			SILTY SAND, DARK RED, FINE-GRAINED, SLIGHTLY CEMENTED, MOTTLED WITH GRAY CLAY, DRY.	SM		
				DRILLED FROM 9-10 FEET.	NSNR		
10	X	■	1.2	SAND, ALTERNATING BANDS OF DARK RED AND YELLOW (10YR 8/6), FINE-GRAINED, POORLY GRADED, SUBANGULAR TO SUBROUNDED, WITH CEMENTED SAND LAYERS, DRY TO MOIST.	SP		
				DRILLED FROM 13-15 FEET.	NSNR		
15	X	■		SAND, DARK RED AND YELLOW, FINE TO MEDIUM-GRAINED, POORLY GRADED, SUBROUNDED TO ROUNDED, WITH INTERBEDDED DARK RED SILTY CLAY FROM 16-17 FEET, MOIST TO WET.	SP		
				Total depth = 18 feet			
20							

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: S32.4	BORING NUMBER: SB5
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: MHARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1241.603	DRILLING RIG: B-61
EAST COORDINATE: 2187017.408	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155932.353	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 10/22/93	END DRILLING: 10/22/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
	X			SILT, DARK RED (10R 4/6), FIRM, WITH FINE-GRAINED SAND LENSES, DRY.	ML		BOREHOLE DIA. = 6.5"
	X	■		SHELBY TUBE GEOTECHNICAL SAMPLE.	NSNR		
5	X	■		SILTY SAND, DARK RED AND YELLOWISH RED (5YR 5/6), FINE-GRAINED, POORLY GRADED, SOFT, LOOSE, WITH RED CLAY INTERBED, DRY.	SM	5	3 ppm scan of sample.
				NO RECOVERY.	NSNR		
10	X			SILTY SAND, DARK RED WITH TINT OF BROWNISH YELLOW (10YR 6/6), FINE-GRAINED, POORLY GRADED, VERY SOFT, DAMP TO MOIST.	SM	10	4 ppm scan
				CLAY, RED, PLASTIC, FIRM, DAMP.	CL		
				DRILLED FROM 11.5-13 FEET.	NSNR		
15	X	■		SAND, ALTERNATING BANDS OF DARK RED AND BROWNISH YELLOW, FINE-GRAINED, POORLY GRADED, SUBROUNDED TO ROUNDED, SOFT, BLACK STAINING, OCCASIONAL CEMENTED SAND LAYERS AND LENSES, SILT LAYER FROM 16-16.5 FEET, WET AT 16.5 FEET.	SP	15	
				Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: S32.4	BORING NUMBER: SB6
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: R NELSON	REF. LOGBOOK: 4
BORING DEPTH (ft-BGL): 8.5	DRILLER: R KISSEE
BORING ELEVATION (ft-MSL): 1241.428	DRILLING RIG: B-24
EAST COORDINATE: 2187009.514	DRILLING METHOD: SOLID STEM AUGER
NORTH COORDINATE: 156020.406	SAMPLING METHOD: SPLIT SPOON
BEGIN DRILLING: 11/05/93	END DRILLING: 11/05/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
	X			SILTY CLAY, DARK RED, PLASTIC, SOFT TO FIRM, FEW VERY FINE-GRAINED SAND, DRY.	CLML		BOREHOLE DIA. = 3.5"
	X			CLAY AND SAND INTERBEDDED, DARK RED, CLAY IS PLASTIC, FIRM; SAND IS VERY FINE-GRAINED, SOFT, SILTY, LITTLE CLAY, DAMP.	CLSP		
5	X	X	0	CLAY AND SAND, SAME AS ABOVE EXCEPT MIXED (NOT INTERBEDDED), MOIST.	CLSP	5	
	X			CLAY, DARK RED, HIGHLY PLASTIC, MODERATELY FIRM, MEDIUM-GRAINED SAND INTERBED (0.2 FEET THICK), LOOSE, DAMP.	CL		
	X	X		CLAY, SAME AS ABOVE, SOME SAND, MOIST.	CL		
				Total depth = 8.5 feet			
10						10	
15						15	
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: S32.5	BORING NUMBER: SB1
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0108, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 6	DRILLER: B KNOPF
BORING ELEVATION (ft-MSL): 1232.6	DRILLING RIG: NONE
EAST COORDINATE: 2187142.23	DRILLING METHOD: SOLID STEM AUGER
NORTH COORDINATE: 156021	SAMPLING METHOD: HAND AUGER
BEGIN DRILLING: 11/16/93	END DRILLING: 11/16/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
	X	■		SILTY SAND, RED (2.5YR 5/8), FINE-GRAINED, POORLY GRADED, SUBANGULAR TO SUBROUNDED, LOOSE, DRY.	SM		BOREHOLE DIA. = 3'
5	X	■	0	CLAY, DARK RED (2.5YR 4/8), PLASTIC, SOFT, WET.	CL		
				Total depth = 6 feet			
10							
15							
20							

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: S32.5	BORING NUMBER: SB2
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 6	DRILLER: B KNOPF
BORING ELEVATION (ft-MSL): 1235.86	DRILLING RIG: NONE
EAST COORDINATE: 2187165.5	DRILLING METHOD: SOLID STEM AUGER
NORTH COORDINATE: 155958.28	SAMPLING METHOD: HAND AUGER
BEGIN DRILLING: 11/16/93	END DRILLING: 11/16/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				SILTY SAND, RED (2.5YR 6/8), FINE-GRAINED, POORLY GRADED, WITH SOME SILT AND TRACE GRAVEL, DRY.	SM		BOREHOLE DIA. = 3'
	X	▲		SAND, RED (2.5YR 5/8) AND YELLOW (2.5Y 7/8), FINE-GRAINED, POORLY GRADED, SUBROUNDED TO ROUNDED, LOOSE, DRY.	SP		
5	X	▲	0			5	
				Total depth = 6 feet			
10						10	
15						15	
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: S32.5	BORING NUMBER: SB3
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 8	DRILLER: B KNOPF
BORING ELEVATION (ft-MSL): 1231.79	DRILLING RIG: B-24
EAST COORDINATE: 2187113.01	DRILLING METHOD: SOLID STEM AUGER
NORTH COORDINATE: 155977.86	SAMPLING METHOD: SPLIT SPOON
BEGIN DRILLING: 11/10/93	END DRILLING: 11/10/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				DRILLED FROM 0-2 FEET	NSNR		BOREHOLE DIA. = 3.5"
	X	■		SILTY SAND, RED (2.5YR 5/8), FINE-GRAINED, POORLY GRADED, SOFT, DAMP; GRADES TO SANDY SILT IN PLACES.	SM		Collected replicate sample in addition to analytical sample.
	X			SILT, NON-PLASTIC, FIRM, MOIST.	ML		
5				SILTY SAND, SAME AS ABOVE EXCEPT WET.	SM		5
	X	■		SAND, RED (2.5YR 5/8) AND YELLOW (2.5Y 7/8), FINE-GRAINED, POORLY GRADED, ROUNDED, SOFT, WET.	SP		
				DRILLED TO 8 FEET.	NSNR		
				Total depth = 8 feet			
10							10
15							15
20							20

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: S32.6	BORING NUMBER: SB1
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0108, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 3.5	DRILLER: B KNOPF
BORING ELEVATION (ft-MSL): 1232.13	DRILLING RIG: NONE
EAST COORDINATE: 2187122.06	DRILLING METHOD: HAND AUGER
NORTH COORDINATE: 155941.07	SAMPLING METHOD: HAND AUGER
BEGIN DRILLING: 11/16/93	END DRILLING: 11/16/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				CLAY, DARK RED (2.5YR 4/8), WITH ROOT MATERIAL AND TRACE GRAVEL, DRY.	CL		BOREHOLE DIA. = 3"
	X	■	0	SILTY SAND, RED (2.5YR 5/8), FINE-GRAINED, POORLY GRADED, SOME SILT, DRY.	SM		
				Total depth = 3.5 feet			
5							5
10							10
15							15
20							20

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: S32.8	BORING NUMBER: SB1
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1240.824	DRILLING RIG: B-61
EAST COORDINATE: 2187105.891	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155904.521	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 10/28/93	END DRILLING: 10/28/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				ASPHALT.	NACM		BOREHOLE DIA. = 6.5"
				SHELBY TUBE GEOTECHNICAL SAMPLE.	NSNR		
				CLAY, DARK RED (2.5YR 4/8), SLIGHTLY PLASTIC, FIRM, DAMP.	CL		
5			0	SILTY SAND, DARK RED, REDDISH YELLOW (5YR 7/8) AND OLIVE YELLOW (2.5Y 6/8), FINE-GRAINED, POORLY GRADED, SUBROUNDED TO ROUNDED, VERY SOFT, SLIGHTLY CEMENTED IN PLACES, DAMP TO MOIST.	SM	5	
10			0			10	
15			0 0	SAND, SAME COLORS AS ABOVE, FINE-GRAINED, POORLY GRADED, ROUNDED TO WELL-ROUNDED, VERY SOFT, CEMENTED IN PLACES, WET AT 14 FEET.	SP	15	
			0	SAND, ALTERNATING BANDS OF DARK RED AND OLIVE YELLOW, FINE TO MEDIUM-GRAINED, ROUNDED TO WELL-ROUNDED, VERY SOFT, WET.	SP		
				Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: S32.8	BORING NUMBER: SB10
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1240.787	DRILLING RIG: B-61
EAST COORDINATE: 2187070.128	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155701.817	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/03/93	END DRILLING: 11/03/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				CONCRETE.	NACM		BOREHOLE DIA. = 6.5"
	X	■		SHELBY TUBE GEOTECHNICAL SAMPLE.	NSNR		1000 ppm inside augers.
5	X			CLAY, BROWN (7.5YR 4/3), LOW PLASTICITY, FIRM TO HARD, WITH ORGANIC MATERIAL, DAMP.	CL	5	100 ppm inside augers.
10	X	■		SILTY SAND, RED (2.5YR 5/8), FINE-GRAINED, POORLY GRADED, ROUNDED, SOFT, SOME SILT, DAMP.	SM	10	200 ppm scan
	X		60	SAND, YELLOW (2.5Y 6/8) AND DARK RED (2.5YR 3/6), FINE-GRAINED, POORLY GRADED, ROUNDED TO WELL-ROUNDED, SOFT EXCEPT WHERE CEMENTED, MOIST.	SP		
15	X	■		SAND, DARK RED (2.5YR 3/6) AND OLIVE YELLOW (2.5Y 6/8), COLORS ALTERNATE FROM 17-18 FEET, FINE TO MEDIUM-GRAINED, POORLY GRADED, WELL-ROUNDED, SOFT, CEMENTED SAND LAYERS, WET AT 16.5 FEET.	SP	15	
				Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: S32.8	BORING NUMBER: SB11
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1243.193	DRILLING RIG: B-61
EAST COORDINATE: 2187035.784	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155725.792	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/03/93	END DRILLING: 11/03/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				ASPHALT.	NACM		BOREHOLE DIA. = 6.5"
	X	X		SHELBY TUBE GEOTECHNICAL SAMPLE.	NSNR		
	X			NO RECOVERY.	NSNR		20 ppm inside augers. 0 ppm scan
5				SILTY CLAY, DARK RED (2.5YR 4/8), PLASTIC, SOFT TO FIRM, DRY TO DAMP.	CLML		0.2 ppm scan
10				SILTY SAND, DARK RED, SOFT, DAMP.	SM		
				SAND, DARK RED (2.5YR 4/8) AND OLIVE YELLOW (2.5Y 6/8), FINE-GRAINED, POORLY GRADED, ROUNDED, SOFT, LOOSE, DAMP.	SP		5 ppm scan
15		X		SAND, SAME AS ABOVE EXCEPT REDDISH YELLOW (7.5YR 6/8) AND DARK RED (10R 3/6) WITH OCCASIONAL TINT OF BLACK, MOIST.	SP		
		X		SAND, RED (2.5YR 5/8), FINE TO MEDIUM-GRAINED, POORLY GRADED, ROUNDED TO WELL-ROUNDED, SOFT, LOOSE, WITH ABUNDANT CEMENTED SAND LAYERS, WET.	SP		
20				Total depth = 18 feet			

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: S32.8	BORING NUMBER: SB12
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1243.33	DRILLING RIG: B-61
EAST COORDINATE: 2187033.278	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155748.091	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/02/93	END DRILLING: 11/02/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				SHELBY TUBE GEOTECHNICAL SAMPLE.	NSNR		BOREHOLE DIA. = 6.5"
5				CLAY, DARK RED (2.5YR 4/8), MEDIUM TO HIGH PLASTICITY, FIRM, TRACE ORGANIC MATERIAL, DRY.	CL		0 ppm scan
				SILTY CLAY, DARK RED, NON-PLASTIC, SOFT, DAMP.	CLML		
10				SILTY SAND, RED (2.5YR 5/8), FINE-GRAINED, POORLY GRADED, SUBROUNDED TO ROUNDED, SOFT, SOME SILT, CEMENTED IN PLACES, DAMP.	SM		0.4 ppm scan
				SILT, DARK RED AND BLACK.	ML		
				SILTY SAND, RED WITH TINTS OF YELLOW AND GREEN, FINE-GRAINED, POORLY GRADED, SOFT, CEMENTED IN PLACES, DAMP.	SM		
15				SAND, RED (2.5YR 5/8) AND OLIVE YELLOW (2.5Y 6/8), FINE TO MEDIUM GRAINED, POORLY GRADED, ROUNDED, SOFT, MOIST.	SP		
				SILTY SAND, DARK RED (2.5YR 4/8), FINE-GRAINED, SOFT, SOME SILT, MOIST.	SM		
20				Total depth = 18 feet			

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: S32.8	BORING NUMBER: SB13
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1243.777	DRILLING RIG: B-61
EAST COORDINATE: 2187030.185	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155767.656	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/02/93	END DRILLING: 11/02/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				CLAYEY SILT, RED (2.5YR 5/8), NON-PLASTIC, SOFT, WITH LIGHT GRAY CLAY LENSES, DRY.	MLCL		BOREHOLE DIA. = 6.5" 0 ppm scan
				SHELBY TUBE GEOTECHNICAL SAMPLE.	NSNR		
5				SILTY CLAY, DARK RED (2.5YR 4/8), NON-PLASTIC TO MEDIUM PLASTICITY, FIRM TO HARD, OCCASIONAL INTERBEDDED SAND (.5 FEET THICK), DRY.	CLML	5	0.8 ppm scan 2 ppm scan
10				SAND, RED AND YELLOW, FINE-GRAINED, SOFT, DRY.	SP	10	
				SILTY SAND, RED TO DARK RED, FINE-GRAINED, POORLY GRADED, SUBROUNDED TO ROUNDED, SOFT, CEMENTED IN PLACES, DAMP.	SM		30 ppm scan
15				SAND, ALTERNATING BANDS OF YELLOW (10YR 7/8), DARK RED (2.5YR 4/8) AND OLIVE GRAY (5Y 4/2), FINE TO MEDIUM-GRAINED, POORLY GRADED, ROUNDED TO WELL-ROUNDED, SOFT, MOIST AT 16 FEET.	SP	15	
				Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: S32.8	BORING NUMBER: SB14
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1243.912	DRILLING RIG: B-61
EAST COORDINATE: 2187031.404	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155798.814	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/02/93	END DRILLING: 11/02/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
	X			CLAYEY SILT, RED (2.5YR 5/8), NON-PLASTIC, VERY SOFT, DRY.	MLCL		BOREHOLE DIA. = 6.5"
5	X					5	
	X		1.2	SILTY SAND, RED (2.5YR 5/8) TO DARK RED (2.5YR 4/8), FINE-GRAINED, POORLY GRADED, SUBROUNDED TO ROUNDED, SOFT, TRACE ORGANIC MATERIAL FROM 7.5-8.5 FEET, DRY.	SM		
	X			CLAYEY SILT, SAME AS ABOVE, DAMP.	MLCL		
10	X	■				10	220 ppm scan
	X	■		SILTY SAND, SAME AS ABOVE, MOIST.	SM		
	X		140	SAND, RED TO DARK RED, FINE TO MEDIUM-GRAINED, POORLY GRADED, ROUNDED, SOFT, WITH SLIGHTLY CEMENTED SAND LAYERS, SILTY SAND INTERBEDS, MOIST.	SP		Collected replicate sample, in addition to analytical sample.
15	X			SAND, REDDISH BROWN (5YR 5/4), FINE-GRAINED, POORLY GRADED, ROUNDED, SOFT, FEW SILT, SLIGHTLY CEMENTED IN THIN LAYERS, MOIST.	SP		
	X	■		SAND, OLIVE GRAY (5Y 4/2) TO VERY DARK GRAY (5Y 3/1), FINE TO MEDIUM-GRAINED, POORLY GRADED, ROUNDED TO WELL-ROUNDED, SOFT, WET.	SP		
				Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: S32.8	BORING NUMBER: SB15
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1243.666	DRILLING RIG: B-61
EAST COORDINATE: 2187033.653	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155817.9	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/01/93	END DRILLING: 11/01/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				DRILLED FROM 0-2.5 FEET.	NSNR		BOREHOLE DIA. = 6.5"
	X	■		SHELBY TUBE GEOTECHNICAL SAMPLE.	NSNR		
5	X			CLAY, RED (2.5YR 5/8), NON-PLASTIC TO MEDIUM PLASTICITY, SOFT TO VERY HARD, OCCASIONAL SAND PARTINGS AND SAND LENSES, DRY TO MOIST.	CL	5	Blow counts: 40-50
				SAND, DARK RED, FINE-GRAINED, DAMP.	SP		
				DRILLED FROM 8-9.5 FEET.	NSNR		
10		■	10	CLAYEY SILT, DARK RED (2.5YR 4/8), BLACK FROM 9.5-11.0 FEET, NON-PLASTIC, SOFT, DAMP.	MLCL	10	
	X		200	SAND, OLIVE YELLOW (2.5Y 6/8), YELLOWISH BROWN (10YR 5/4) AND BLACK, FINE-GRAINED, POORLY GRADED, SUBROUNDED TO ROUNDED, SOFT, LOOSE, DRY TO MOIST.	SP		1000 ppm inside augers.
15		■	62	SILTY SAND, RED, FINE-GRAINED, POORLY GRADED, SUBROUNDED, FEW TO SOME SILT, SLIGHTLY CEMENTED IN PLACES, MOIST TO WET.	SM	15	
	X	■	70	SAND, STRONG BROWN (7.5YR 4/6) AND BLACK, FINE TO MEDIUM-GRAINED, ROUNDED TO WELL-ROUNDED, WET.	SP		
				Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: S32.8	BORING NUMBER: SB16
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1244.015	DRILLING RIG: B-61
EAST COORDINATE: 2187031.931	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155840.075	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/05/93	END DRILLING: 11/05/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				SHELBY TUBE GEOTECHNICAL SAMPLE.	NSNR		BOREHOLE DIA. = 6.5"
				SILTY SAND, RED (2.5YR 5/8), FINE-GRAINED, POORLY GRADED, SOFT, DRY.	SM		Hit utility line at 2.5 feet BGL on first attempt at SB16 on 11/01/93.
5				SAND, RED, FINE TO MEDIUM-GRAINED, POORLY GRADED, SUBROUNDED TO ROUNDED, SOFT, LOOSE, WITH INTERBEDDED CLAY LAYERS (2 INCHES THICK), DRY.	SP	5	800 ppm inside augers.
			8	SAND, SAME AS ABOVE EXCEPT BLACK.	SP		1000 ppm inside augers.
10						10	Tried to drive Shelby tube at 9.5 feet BGL - not possible.
				SAND, LIGHT RED (2.5YR 7/8) WITH TINT OF OLIVE YELLOW, FINE TO MEDIUM GRAINED, ROUNDED, DRY.	SP		
				SAND, BLACK, FINE-GRAINED, MOIST.	SP		Collected MS/MSD, in addition to analytical sample.
				SAND, DARK RED (2.5YR 4/8), FINE-GRAINED, ~~ABUNDANT CEMENTED SAND LAYERS.~~	SP		Vinyl chloride inside augers = 1 ppm.
15				SAND, OLIVE (5Y 4/3), RED (2.5YR 5/8), BLACK FROM 16.5 TO 17.0 FEET, OCCASIONAL MULTICOLORED BANDS, FINE TO MEDIUM GRAINED, POORLY GRADED, SUBROUNDED TO ROUNDED, CEMENTED SAND LAYERS FROM 14.5-16.0 FEET, WET AT 16 FEET.	SP	15	340 ppm scan
				Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: S32.8	BORING NUMBER: SB17
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1243.651	DRILLING RIG: B-61
EAST COORDINATE: 2187035.729	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155873.166	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/01/93	END DRILLING: 11/01/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				SILTY CLAY, RED (2.5YR 5/8), NON-PLASTIC, FIRM TO VERY HARD, WITH LIGHT GRAY CLAY STRINGERS AND OCCASIONAL SAND LENS, DRY.	CLML		BOREHOLE DIA. = 6.5"
5						5	
				SILTY CLAY, SAME AS ABOVE, SOFT.	CLML		
10				SAND, RED AND YELLOW (10YR 7/8), FINE-GRAINED, POORLY GRADED, SUBROUNDED TO ROUNDED, SOFT, SLIGHTLY CEMENTED IN PLACES, DRY.	SP	10	
15				SAND, SAME AS ABOVE, MOIST.	SP	15	
			32	SAND, SAME AS ABOVE, FINE TO MEDIUM-GRAINED, WET.	SP		
				Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: S32.8	BORING NUMBER: SB18
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1240.912	DRILLING RIG: B-61
EAST COORDINATE: 2187071.513	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155904.3	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/04/93	END DRILLING: 11/04/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				ASPHALT.	NACM		BOREHOLE DIA. = 6.5"
				SHELBY TUBE GEOTECHNICAL SAMPLE.	NSNR		
5				SILTY CLAY, RED (2.5YR 5/8), LOW PLASTICITY, FIRM, WITH FEW FINE-GRAINED SAND LENSES, DRY.	CLML		5
			0	SAND, YELLOW (10YR 7/8) AND RED (2.5YR 6/8), FINE-GRAINED, POORLY GRADED, SUBROUNDED, SOFT, OCCASIONAL CEMENTED SAND LAYERS, DRY.	SP		
				SAND, SAME AS ABOVE, FINE TO MEDIUM GRAINED, DRY.	SP		
10			1.8	SAND, BROWNISH YELLOW (10YR 6/8) AND DARK RED (2.5YR 3/6), COLORS ALTERNATE IN BANDS AT 11-13 FEET, FINE-GRAINED, POORLY GRADED, SUBROUNDED, SOFT, PLATY LITHIFICATION, MOIST AT 11 FEET.	SP		10
15				SAND, SAME AS ABOVE EXCEPT FINE TO MEDIUM-GRAINED, ROUNDED.	SP		15
				SAND, SAME AS ABOVE, FINE TO MEDIUM-GRAINED, ROUNDED TO WELL-ROUNDED, WET.	SP		
				Total depth = 18 feet			
20							20

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: S32.8	BORING NUMBER: SB2
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 16.5	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1239.994	DRILLING RIG: B-61
EAST COORDINATE: 2187129.621	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155880.846	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 10/29/93	END DRILLING: 10/29/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HOSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
			2500	CLAY, DARK RED (2.5YR 4/8), NON-PLASTIC, SOFT, DRY.	CL		BOREHOLE DIA. = 6.5"
				SHELBY TUBE GEOTECHNICAL SAMPLE.	NSNR		
5			2500	SILTY CLAY, DARK RED, NON-PLASTIC, VERY SOFT, DAMP.	CLML	5	
10			2500	SILTY SAND, BROWNISH YELLOW (10YR 6/8) WITH TINT OF DARK RED, FINE-GRAINED, POORLY GRADED, ROUNDED, VERY SOFT, SLIGHTLY CEMENTED IN PLACES, MOIST.	SM	10	
			2500	SAND, YELLOW (10YR 7/8) AND DARK RED, FINE-GRAINED, POORLY GRADED, ROUNDED, SLIGHTLY CEMENTED, BLACK STAINING, WET.	SP		
15			2500	SAND, YELLOW AND DARK RED, FINE TO MEDIUM-GRAINED, WELL-ROUNDED, VERY SOFT, VERY WET.	SP	15	
				Total depth = 16.5 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: S32.8	BORING NUMBER: SB3
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1239.867	DRILLING RIG: B-61
EAST COORDINATE: 2187130.415	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155859.471	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 10/29/93	END DRILLING: 10/29/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
			4	SILTY CLAY, DARK RED (2.5YR 4/8), NON-PLASTIC, SOFT, WITH MEDIUM-GRAINED, YELLOW SAND LENSES, DRY.	CLML		BOREHOLE DIA. = 6.5"
5				SHELBY TUBE GEOTECHNICAL SAMPLE.	NSNR	5	
				SILTY CLAY, SAME AS ABOVE, DAMP.	CLML		
10			0	SILTY SAND, RED (2.5YR 5/8) AND OLIVE YELLOW (2.5Y 6/8), FINE-GRAINED, POORLY GRADED, ROUNDED, SLIGHTLY CEMENTED IN PLACES, DAMP TO MOIST.	SM	10	
15				SAND, RED AND YELLOW, FINE-GRAINED, WELL-ROUNDED, SLIGHTLY CEMENTED, BLACK STAINING, WET AT 14 FEET.	SP	15	
				Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: S32.8	BORING NUMBER: SB4
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1239.905	DRILLING RIG: B-61
EAST COORDINATE: 2187130.958	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155816.538	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/04/93	END DRILLING: 11/04/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HOSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				CONCRETE AND FILL SAND.	NACM		BOREHOLE DIA. = 6.5"
				CLAY, DARK RED, PLASTIC, FIRM.	CL		
				SILTY SAND, MEDIUM TO COARSE GRAINED, ROUNDED, SOME SILT, DAMP.	SM		1.2 ppm scan
				CLAY, SAME AS ABOVE.	CL		
5				SHELBY TUBE GEOTECHNICAL SAMPLE.	NSNR	5	
				CLAY, RED (2.5YR 5/8), LOW PLASTICITY, SOFT, DRY.	CL		1000 ppm inside augers (constant reading)
				SILTY SAND, REDDISH YELLOW (7.5YR 6/8).	SM		
10			5.2	SAND, VERY PALE BROWN (10YR 7/4) TO YELLOWISH BROWN (10YR 5/4), FINE-GRAINED, POORLY GRADED, SUBROUNDED TO ROUNDED, SOFT, PLATY CEMENTED SAND LAYERS FROM 9-10 FEET, DRY.	SP	10	
15			1.8	SAND, BROWNISH YELLOW (10YR 6/8) AND DARK RED (2.5YR 4/6), FINE TO MEDIUM-GRAINED, POORLY GRADED, ROUNDED, SOFT, MOIST AT 13.5 FEET, WET AT 14.5 FEET.	SP	15	
				Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: S32.8	BORING NUMBER: SB5
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1239.845	DRILLING RIG: B-61
EAST COORDINATE: 2187132.014	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155795.655	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/04/93	END DRILLING: 11/04/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				CONCRETE.	NACM		BOREHOLE DIA. = 6.5"
				SHELBY TUBE GEOTECHNICAL SAMPLE.	NSNR		
5				SILTY CLAY, DARK RED (2.5YR 4/8), MEDIUM PLASTICITY, FIRM, DRY TO DAMP.	CLML	5	1000 ppm inside augers.
							100 ppb scan
10			100	SILTY SAND, DARK RED, FINE-GRAINED.	SM	10	800 ppm inside augers.
				SAND, BROWNISH YELLOW (10YR 6/8), FINE TO MEDIUM-GRAINED, POORLY GRADED, ROUNDED TO WELL-ROUNDED, SOFT, SLIGHTLY CEMENTED IN PLACES, MOIST AT 12.5 FEET.	SP		Collected MS/MSD sample, in addition to analytical sample.
15			70	SAND, SAME AS ABOVE EXCEPT YELLOW (2.5Y 7/8) AND DARK RED (2.5YR 3/6) IN ALTERNATING BANDS, BLACK STAINING, MOIST.	SP	15	
			10	SAND, SAME AS ABOVE, WET.	SP		
				Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: S32.8	BORING NUMBER: SB6
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 18	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1239.775	DRILLING RIG: B-61
EAST COORDINATE: 2187131.284	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155767.173	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/05/93	END DRILLING: 11/05/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				CONCRETE.	NACM		BOREHOLE DIA. = 6.5"
				FILL SAND.	SP		
				CLAY, DARK RED (2.5YR 4/8), PLASTIC, FIRM TO HARD, DRY.	CL		5.2 ppm scan
5			20	SILTY CLAY, DARK RED, NON-PLASTIC, SOFT, DRY.	CLML		5
				SHELBY TUBE GEOTECHNICAL SAMPLE.	NSNR		
				CLAY, DARK RED (2.5YR 4/8), PLASTIC, SOFT, MOIST.	CL		
10				SILTY SAND, DARK RED, FINE-GRAINED, POORLY GRADED, SUBROUNDED, SOFT, DAMP.	SM		10
				SAND, BROWNISH YELLOW (10YR 6/8) WITH TINTS OF RED, FINE-GRAINED, POORLY GRADED, ROUNDED, SOFT, OCCASIONAL CEMENTED SAND, MOIST.	SP		
15			2	SAND, RED (2.5YR 5/8) WITH TINT OF YELLOW, FINE TO MEDIUM GRAINED, POORLY GRADED, ROUNDED TO WELL-ROUNDED, WET.	SP		15
				Total depth = 18 feet			
20							20

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: S32.8	BORING NUMBER: SB7
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 18	DRILLER: B KNOPF
BORING ELEVATION (ft-MSL): 1239.77	DRILLING RIG: B-53
EAST COORDINATE: 2187131.46	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155748.8	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/06/93	END DRILLING: 11/06/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				CONCRETE.	NACM		BOREHOLE DIA. = 8.5"
				FILL SAND, MEDIUM-GRAINED.	SP		
				CLAY, RED (2.5YR 5/8), MEDIUM PLASTICITY, FIRM TO HARD, DRY.	CL		
5				SILTY CLAY, SAME AS ABOVE, TRACE ORGANIC MATERIAL, DRY TO DAMP.	CLML		10 ppm scan
				CLAY, SAME AS ABOVE, MOIST.	CL		22 ppm inside augers at 9.0 feet BGL.
10				GRAVEL AND SILT LAYER.	GWML		
				SAND, RED (2.5YR 5/8) AND OLIVE YELLOW (2.5Y 6/8), FINE-GRAINED, POORLY GRADED, ROUNDED, SOFT, LOOSE, ABUNDANT BLACK STAINING, MOIST.	SP		
				SAND, SAME AS ABOVE, SLIGHTLY CEMENTED IN PLACES, FRIABLE, WET AT 14 FEET.	SP		4 ppm inside augers at 13 feet BGL. Replicate collected, in addition to analytical sample.
15				SAND, SAME AS ABOVE, WET; GEOTECHNICAL GRAB SAMPLE FROM 17-18 FEET.	SP		
				Total depth = 18 feet			
20							

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: S32.8	BORING NUMBER: SB8
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 18	DRILLER: B KNOPF
BORING ELEVATION (ft-MSL): 1239.92	DRILLING RIG: B-53
EAST COORDINATE: 2187132.54	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155727.17	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/06/93	END DRILLING: 11/06/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				CONCRETE.	NACM		BOREHOLE DIA. = 6.5"
				FILL SAND, MEDIUM-GRAINED.	SP		
5				CLAY, RED (2.5YR 5/8), PLASTIC, FIRM, OCCASIONAL SAND LENS AND ORGANIC MATERIAL, DRY.	CL	5	20 ppm scan
				SILTY CLAY, RED, SOFT TO FIRM, DAMP.	CLML		
10			100	SILT, RED (2.5YR 7/8), SOFT, WITH ORGANIC MATERIAL, DRY.	ML	10	
				SILTY SAND, RED, FINE-GRAINED, SOFT, SOME SILT, MOIST, WET AT 12.5 FT.	SM		
15				SAND, DARK RED (2.5YR 4/8) WITH TINT OF YELLOW, FINE-GRAINED, POORLY GRADED, ROUNDED, SOFT, LOOSE, OCCASIONAL CEMENTED SAND LAYERS, BLACK STAINING, WET.	SP	15	Up to 100 ppm inside augers.
				Total depth = 18 feet			
20						20	

SOIL BORING LOG — TINKER AIR FORCE BASE

SITE LOCATION: S32.8	BORING NUMBER: SB9
CLIENT/PROJECT: TINKER AFB WWTP RFI	TINKER AFB CONTRACTOR: ENGINEERING SCIENCE
USAF CONTRACT: F34650-93-D-0106, D.O. 5001	DRILLING COMPANY: THE WINNEK COMPANY
LOGGED BY: M HARDER	REF. LOGBOOK: 5
BORING DEPTH (ft-BGL): 19.5	DRILLER: E LANCASTER
BORING ELEVATION (ft-MSL): 1240.151	DRILLING RIG: B-61
EAST COORDINATE: 2187107.833	DRILLING METHOD: HOLLOW STEM AUGER
NORTH COORDINATE: 155702.239	SAMPLING METHOD: CONTINUOUS CORE
BEGIN DRILLING: 11/03/93	END DRILLING: 11/03/93

DEPTH (feet)	SAMPLE RECOVERY	ANALYTICAL SAMPLE	HNU HDSP (ppm)	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				CONCRETE AND FILL SAND.	NACM		BOREHOLE DIA. = 6.5"
				CLAY, RED (2.5YR 5/8), PLASTIC, FIRM, DRY.	CL		20 ppm scan
5				SHELBY TUBE GEOTECHNICAL SAMPLE.	NSNR	5	
				CLAY, RED (2.5YR 5/8) TO DARK RED (2.5YR 3/6), NON-PLASTIC, FIRM TO HARD, DAMP.	CL		
10						10	
				SILTY SAND, DARK RED (2.5YR 4/8), FINE-GRAINED, POORLY GRADED, ROUNDED, SOME SILT, DAMP.	SM		
			140	SAND, PREDOMINANTLY RED WITH ALTERNATING BANDS OF RED AND YELLOW IN PLACES, FINE TO MEDIUM-GRAINED, POORLY GRADED, SUBROUNDED TO ROUNDED, SOFT, CEMENTED SAND LAYERS, MOIST.	SP		
15						15	
			100	SILTY SAND, RED (2.5YR 6/8) WITH TINT OF YELLOW (2.5Y 7/8), FINE-GRAINED, POORLY GRADED, ROUNDED, SOFT TO FIRM, WET.	SM		
			2.6	SAND, MEDIUM-GRAINED, WELL-ROUNDED, SOFT, WET.	SP		
				NO RECOVERY.	NSNR		
20				Total depth = 19.5 feet		20	

Appendix B

Geotechnical Laboratory Data

GEOTECHNICAL LABORATORY SERVICES

TINKER AIR FORCE BASE ITWP RCRA FACILITY INVESTIGATION
CONTRACT #F34650-93-D-0106

MIDWEST CITY, OKLAHOMA

PREPARED FOR

ENGINEERING SCIENCE, INC.

5600 LIBERTY PARKWAY, SUITE 700

MIDWEST CITY, OKLAHOMA 73110

Professional Service Industries, Inc.

TEST RESULTS

Boring #: SB-15 **Sample #:** S32.8 **Depth (ft):** 2.5'-4.0'

Description: Red brown sandy SILT

Classification (ASTM D2487): ML

Atterberg limits (ASTM D4318): Liquid Limit = 21
Plastic Limit = 19
Plasticity Index = 2

Moisture Content (ASTM D2216): 13.2%

Bulk Density (ASTM D2937): *

Organic Content (ASTM D2970): 3.2%

Constant Head Permeability (ASTM D2434): *

Porosity: *

Particle Size Hydrometer (see attached curve)

* Test not performed - disturbed sample

Boring #: SB-7 **Sample #:** S32.8 **Depth (ft):** 17.0'-18.0'

Description: Tan poorly graded SAND with silt

Classification (ASTM D2487): SP-SM

Atterberg limits (ASTM D4318): Liquid Limit = --
Plastic Limit = --
Plasticity Index = NP

Moisture Content (ASTM D2216): 19.5%

Bulk Density (ASTM D2937): *

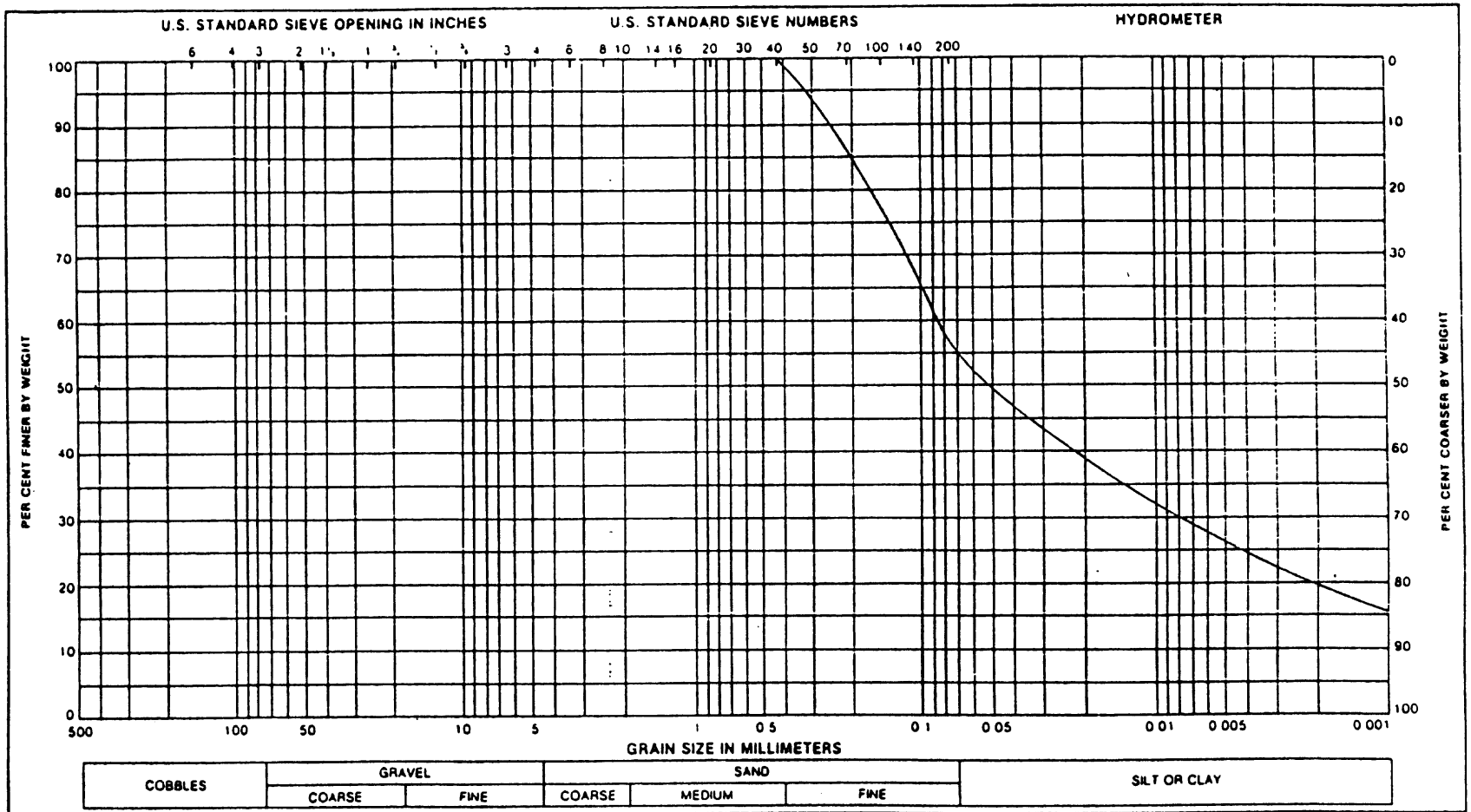
Organic Content (ASTM D2970): 0.8%

Constant Head Permeability (ASTM D2434): *

Porosity *

Particle Size Hydrometer (see attached curve)

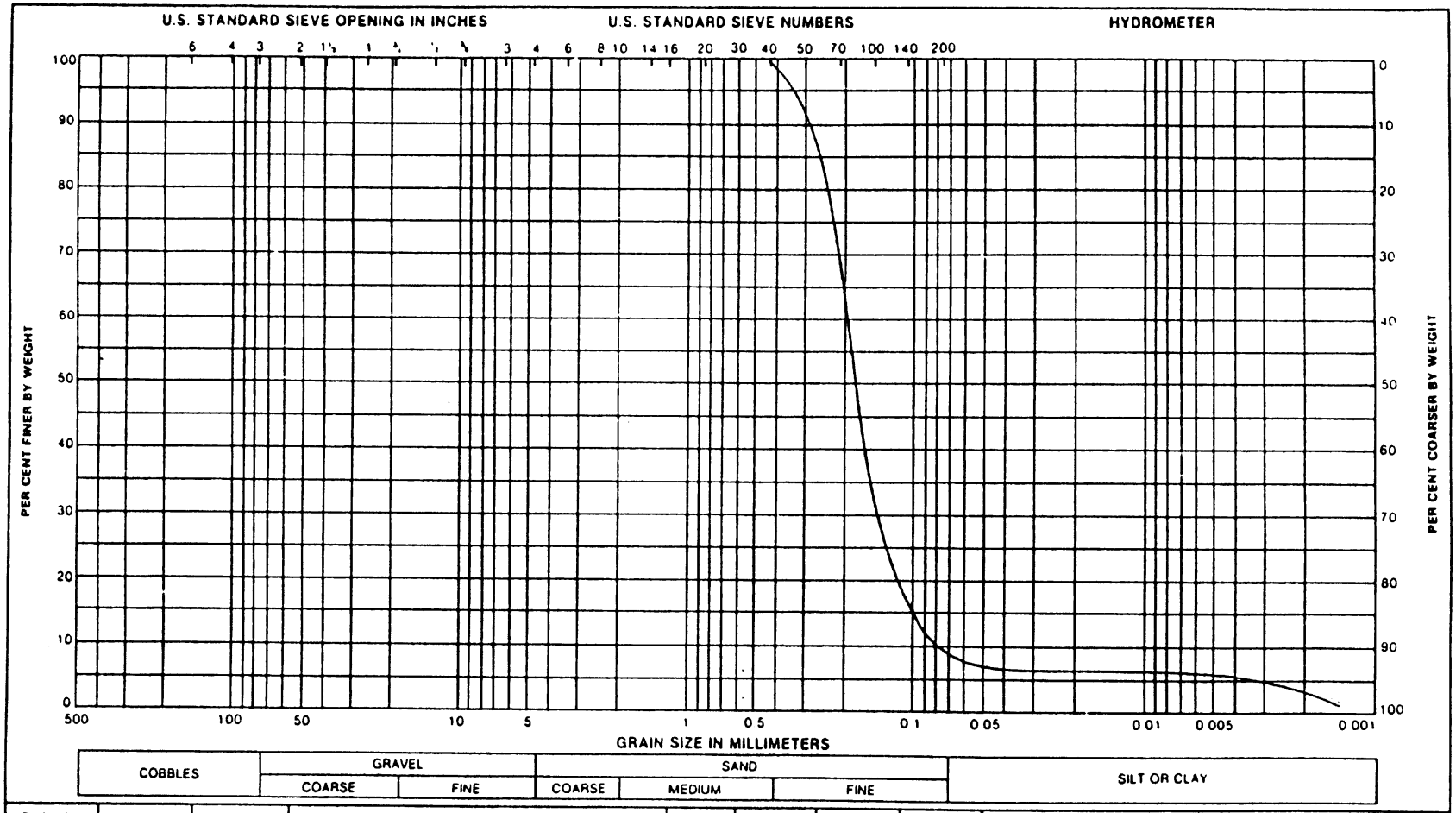
* Test not performed - disturbed sample



Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-15	S32.8	2.5'-4.0'	Red brown sandy SILT (ML)	13.2	21	19	2	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand - 40%					Midwest City, Oklahoma
			Silt - 34%					
			Clay - 26%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

File No 547-35110-2



Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-7	S32.8	17.0'-18.0'	Tan poorly graded SAND with silt	19.5	--	--	NP	Soil Analysis-Project #F34650-93-D-0106
			(SP-SM)					Tinker AFB ITWP RCRA Facility Investigation
			Sand - 90%					Midwest City, Oklahoma
			Silt - 4%					
			Clay - 6%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

File No 547-35110-2

TEST RESULTS

Boring #: SB-5 **Sample #:** S32.4 **Depth (ft):** 3.0'-5.0'

Description: Reddish brown sandy SILT

Classification (ASTM D2487): ML

Atterberg limits (ASTM D4318): Liquid Limit = --
Plastic Limit = --
Plasticity Index = NP

Moisture Content (ASTM D2216): 8.8%

Bulk Density (ASTM D2937): *

Organic Content (ASTM D2970): 1.1%

Constant Head Permeability (ASTM D2434): *

Porosity *

Particle Size Hydrometer (see attached curve)

* Test was not performed - disturbed sample

Boring #: SB-13 **Sample #:** S32.8 **Depth (ft):** 2.0'-4.0'

Description: Red brown lean CLAY

Classification (ASTM D2487): CL

Atterberg limits (ASTM D4318): Liquid Limit = 28
Plastic Limit = 19
Plasticity Index = 9

Moisture Content (ASTM D2216): 15.9%

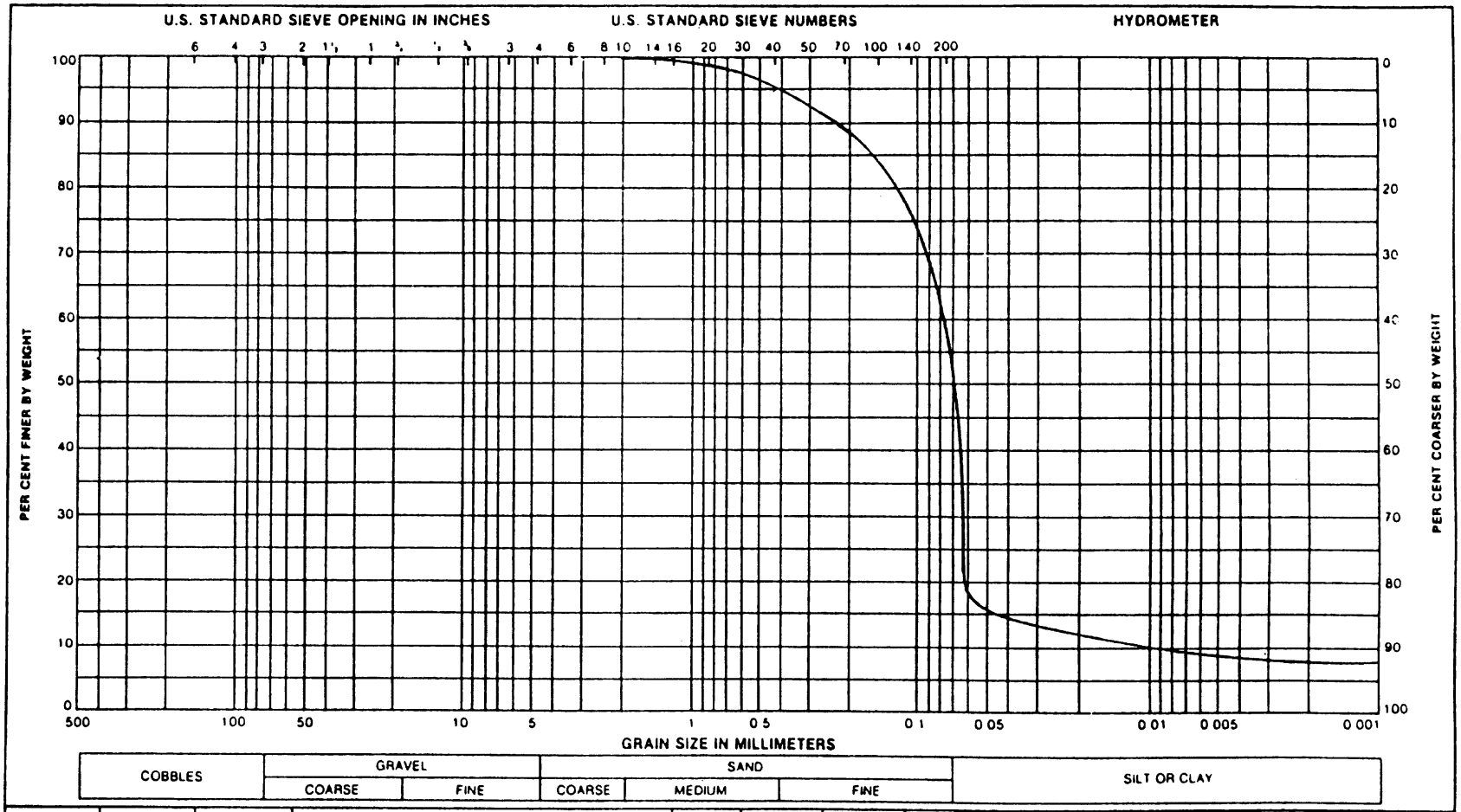
Bulk Density (ASTM D2937): 113.7 pcf

Organic Content (ASTM D2970): 3.3%

Constant Head Permeability (ASTM D2434): 9.6×10^{-8} cm/sec

Porosity 0.32

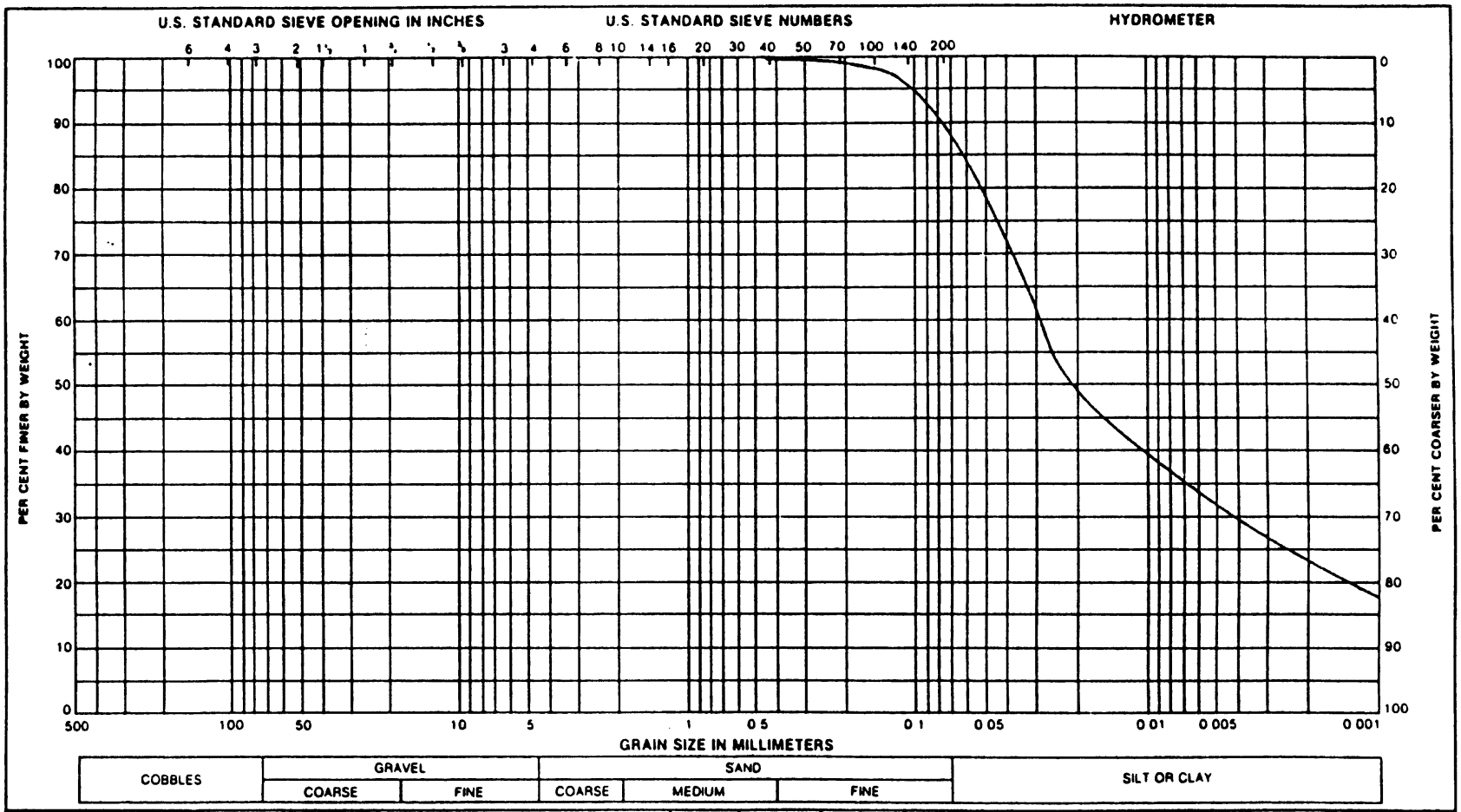
Particle Size Hydrometer (see attached curve)



Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-5	S32.4	3.0'-5.0'	Reddish brown sandy SILT (ML)	8.8	--	--	NP	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand - 42%					Midwest City, Oklahoma
			Silt - 49%					
			Clay - 9%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

File No 547-35110-2



Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-13	S32.8	2.0'-4.0'	Reddish brown lean CLAY (CL)	15.9	28	19	9	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand - 10%					Midwest City, Oklahoma
			Silt - 58%					
			Clay - 32%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

File No 547-35110-2

TEST RESULTS

Boring #: SB-1 **Sample #:** I24.3 **Depth (ft):** 3.5'-5.0'

Description: Red and tan silty SAND

Classification (ASTM D2487): SM

Atterberg limits (ASTM D4318): Liquid Limit = --
Plastic Limit = --
Plasticity Index = NP

Moisture Content (ASTM D2216): 18.0%

Bulk Density (ASTM D2937): 111.9 pcf

Organic Content (ASTM D2970): 1.7%

Constant Head Permeability (ASTM D2434): 2.9×10^{-6} cm/sec

Porosity 0.33

Particle Size Hydrometer (see attached curve)

Boring #: SB-12 **Sample #:** S32.8 **Depth (ft):** 0-2.0'

Description: Brown lean CLAY with sand

Classification (ASTM D2487): CL

Atterberg limits (ASTM D4318): Liquid Limit = 48
Plastic Limit = 23
Plasticity Index = 25

Moisture Content (ASTM D2216): 21.4%

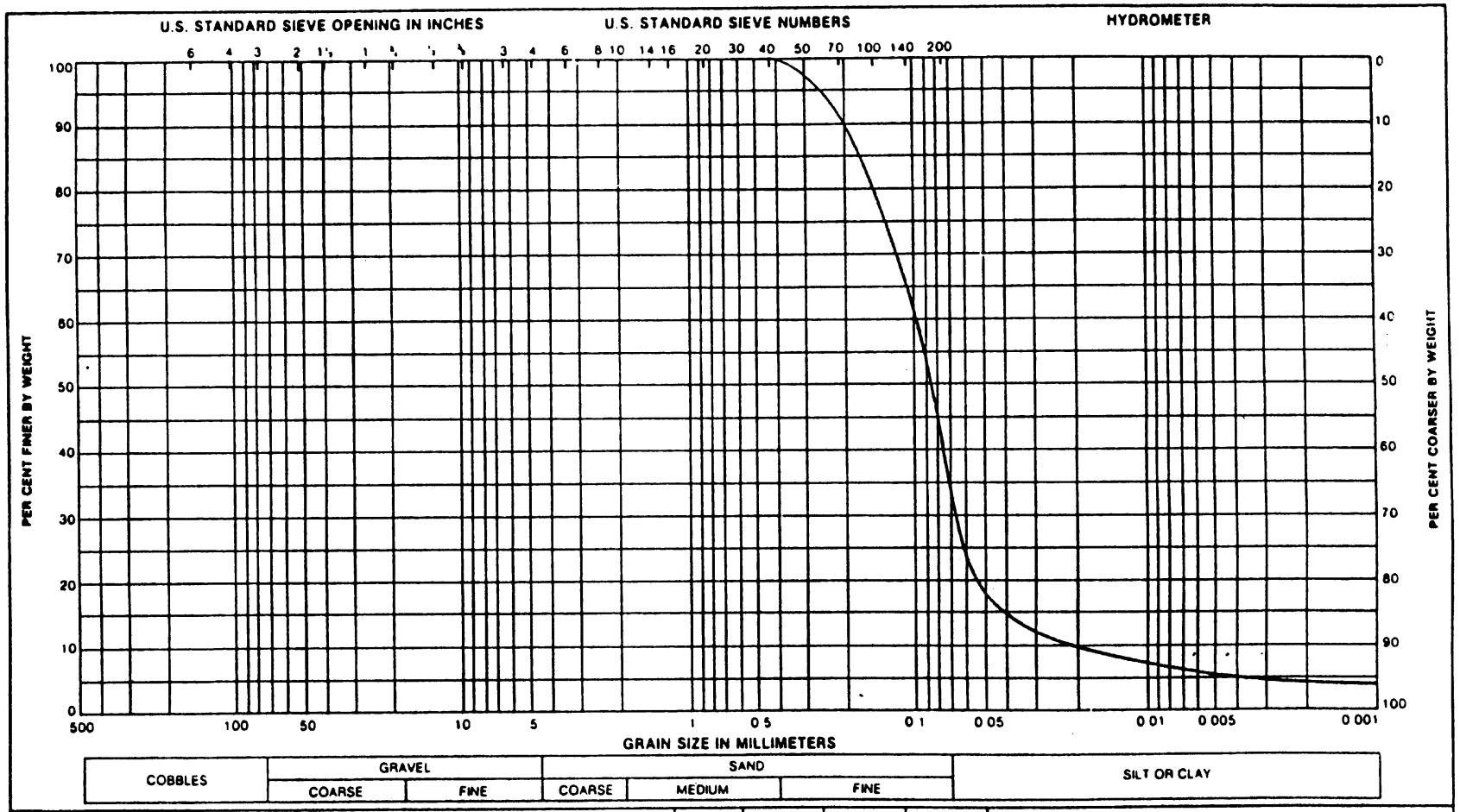
Bulk Density (ASTM D2937): 105.3 pcf

Organic Content (ASTM D2970): 7.6%

Constant Head Permeability (ASTM D2434): 3.3×10^{-8} cm/sec

Porosity 0.38

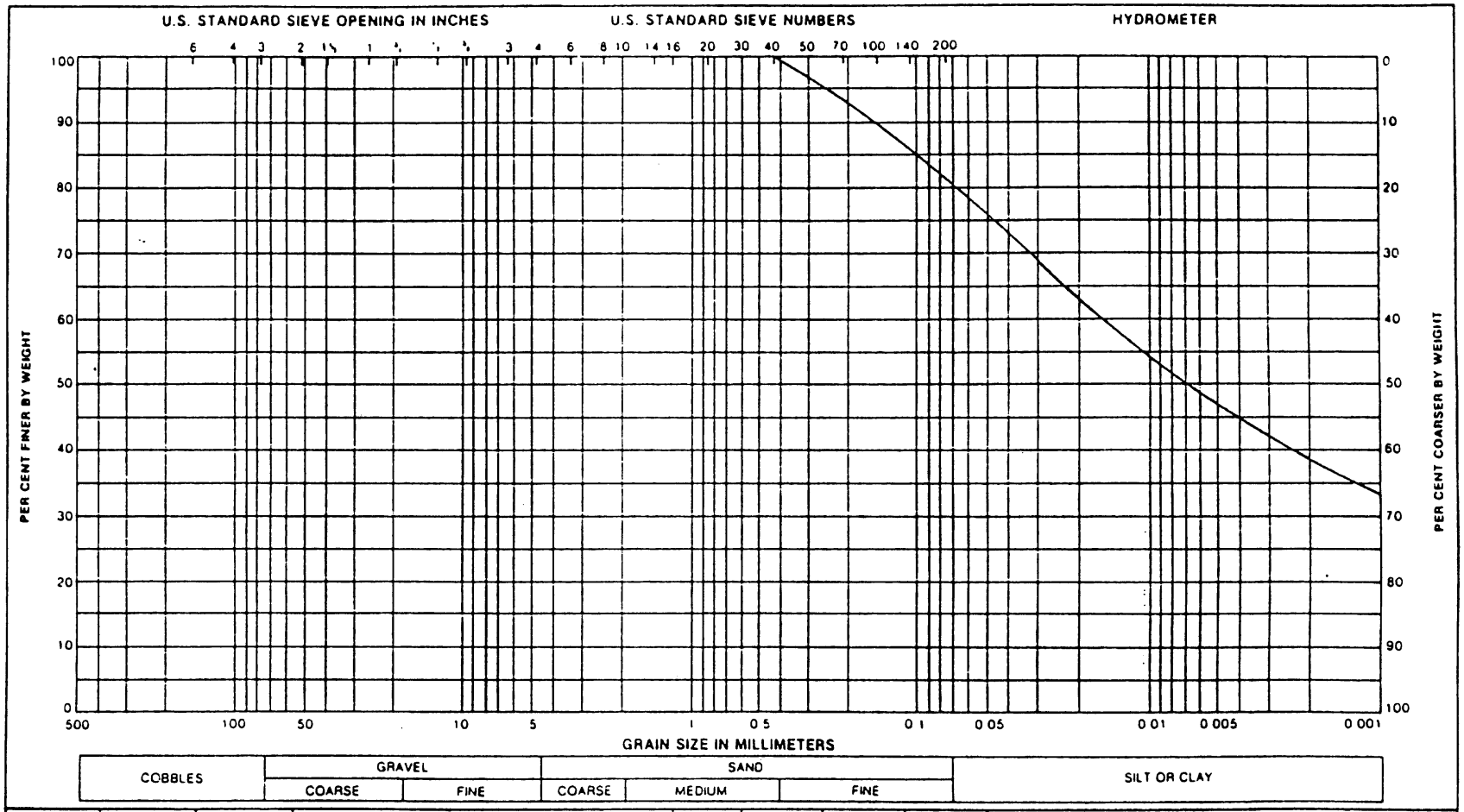
Particle Size Hydrometer (see attached curve)



Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-1	I24.3	3.5'-5.0'	Red & tan silty SAND (SM)	18.0	--	--	NP	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand - 62%					Midwest City, Oklahoma
			Silt - 32%					
			Clay - 6%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

File No 547-35110-2



Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-12	S32.8	0-2.0'	Brown lean CLAY with sand (CL)	21.4	48	23	~~45~~	Soil Analysis-Project #F34650-93-D-0106
							25	Tinker AFB ITWP RCRA Facility Investigation
			Sand - 18%					Midwest City, Oklahoma
			Silt - 35%					
			Clay - 47%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

File No. 547-35110-2

TEST RESULTS

Boring #: SB-3 **Sample #:** I24.10 **Depth (ft):** 9.0'-11.0'

Description: Red brown silty clayey SAND

Classification (ASTM D2487): SM-SC

Atterberg limits (ASTM D4318): Liquid Limit = 23
Plastic Limit = 18
Plasticity Index = 5

Moisture Content (ASTM D2216): 13.4%

Bulk Density (ASTM D2937): 117.4 pcf

Organic Content (ASTM D2970): 4.1%

Constant Head Permeability (ASTM D2434): 9.2×10^{-8} cm/sec

Porosity 0.30

Particle Size Hydrometer (see attached curve)

Boring #: SB-2 **Sample #:** I24.5 **Depth (ft):** 4.0'-6.0'

Description: Reddish brown silty CLAY

Classification (ASTM D2487): CL

Atterberg limits (ASTM D4318): Liquid Limit = 45
Plastic Limit = 24
Plasticity Index = 21

Moisture Content (ASTM D2216): 18.6%

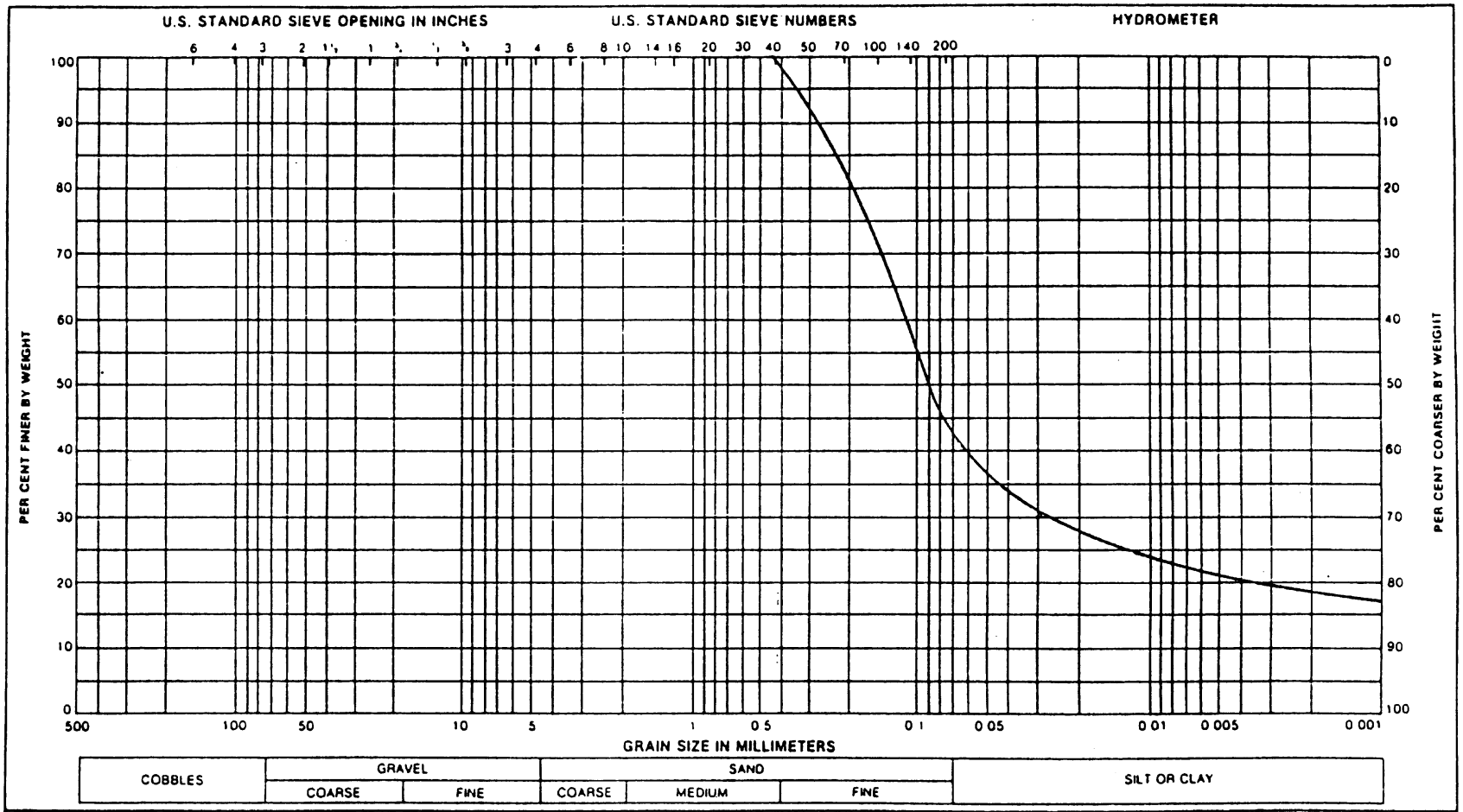
Bulk Density (ASTM D2937): 111.9 pcf

Organic Content (ASTM D2970): 4.7%

Constant Head Permeability (ASTM D2434): 3.6×10^{-8} cm/sec

Porosity 0.34

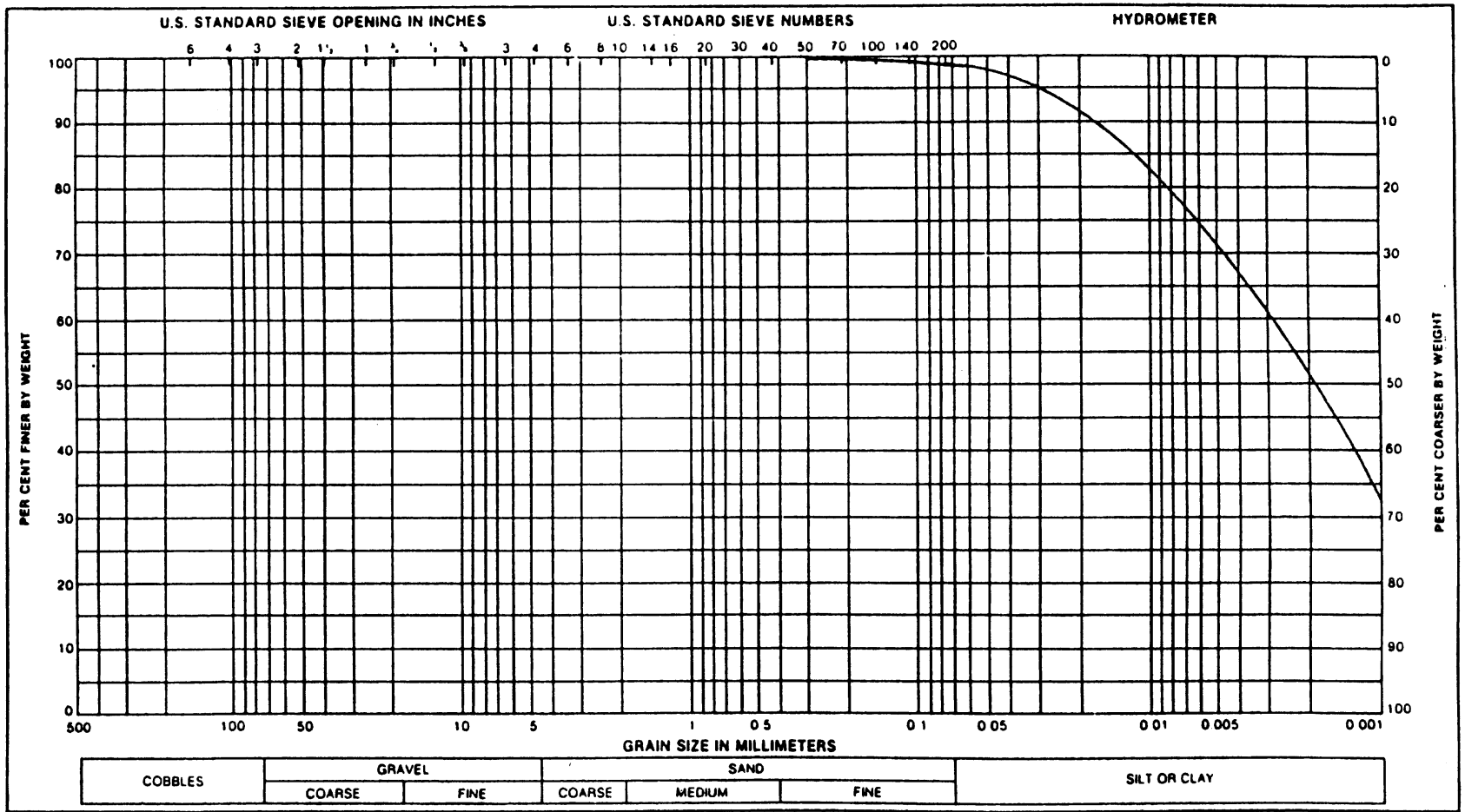
Particle Size Hydrometer (see attached curve)



Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-3	I24.10	9.0'-11.0'	Red brown silty clayey SAND (SM-SC)	13.4	23	18	5	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand - 56%					Midwest City, Oklahoma
			Silt - 23%					
			Clay - 21%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

File No. 547-35110-2



Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-2	I24.5	4.0'-6.0'	Reddish brown silty CLAY (CL)	18.6	45	24	21	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand - 1%					Midwest City, Oklahoma
			Silt - 28%					
			Clay - 71%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

File No 547-35110-2

TEST RESULTS

Boring #: SB-2 **Sample #:** I24.8 **Depth (ft):** 4.0'-6.0'

Description: Red & tan poorly graded SAND with silt

Classification (ASTM D2487): SP-SM

Atterberg limits (ASTM D4318): Liquid Limit = --
Plastic Limit = --
Plasticity Index = NP

Moisture Content (ASTM D2216): 4.9%

Bulk Density (ASTM D2937): *

Organic Content (ASTM D2970): 1.0%

Constant Head Permeability (ASTM D2434): *

Porosity *

Particle Size Hydrometer (see attached curve)

* Test not performed - disturbed sample

Boring #: SB-8 **Sample #:** S32.8 **Depth (ft):** 13.0'-14.0'

Description: Red brown silty SAND

Classification (ASTM D2487): SM

Atterberg limits (ASTM D4318): Liquid Limit = --
Plastic Limit = --
Plasticity Index = NP

Moisture Content (ASTM D2216): 15.4%

Bulk Density (ASTM D2937): *

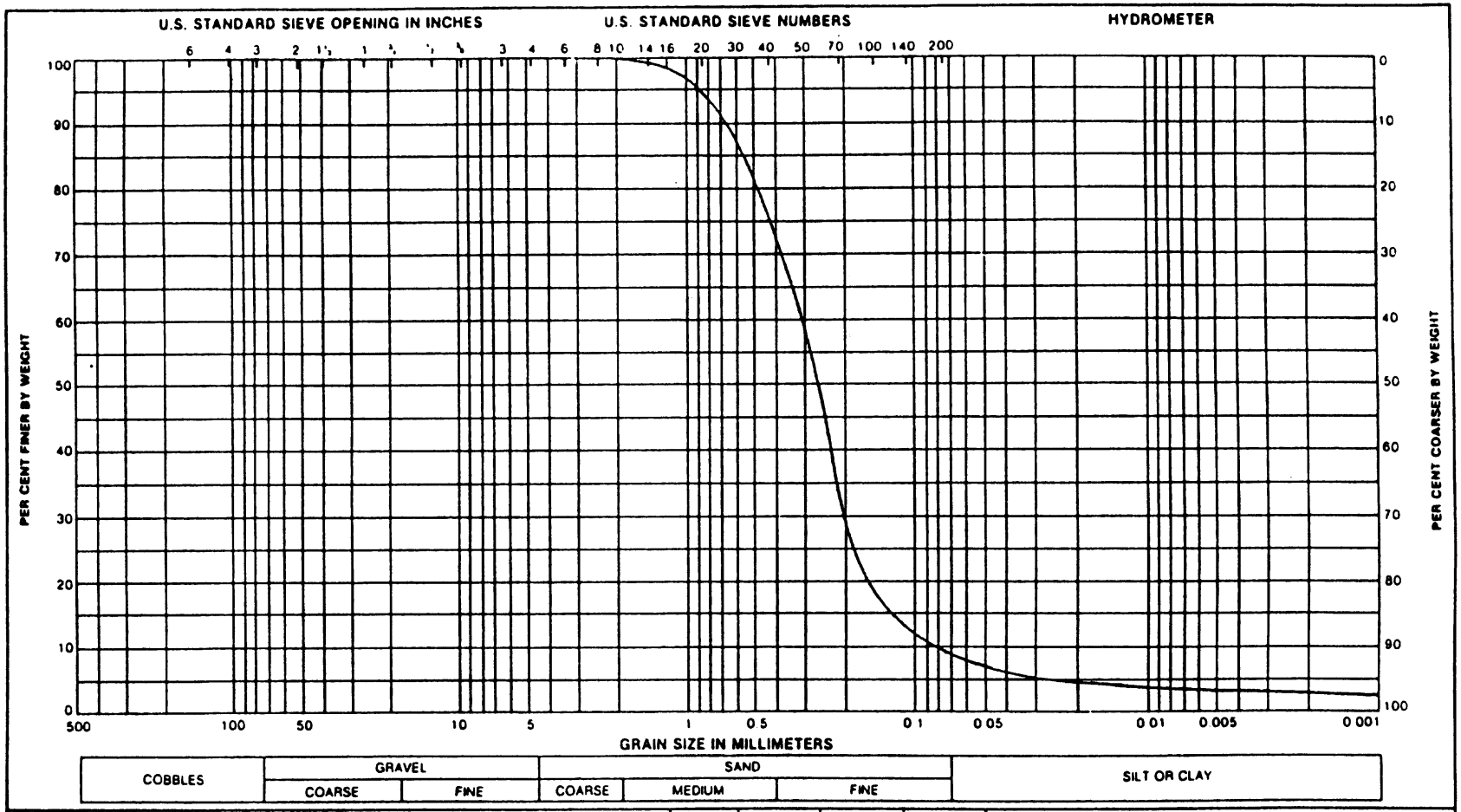
Organic Content (ASTM D2970): 1.7%

Constant Head Permeability (ASTM D2434): *

Porosity *

Particle Size Hydrometer (see attached curve)

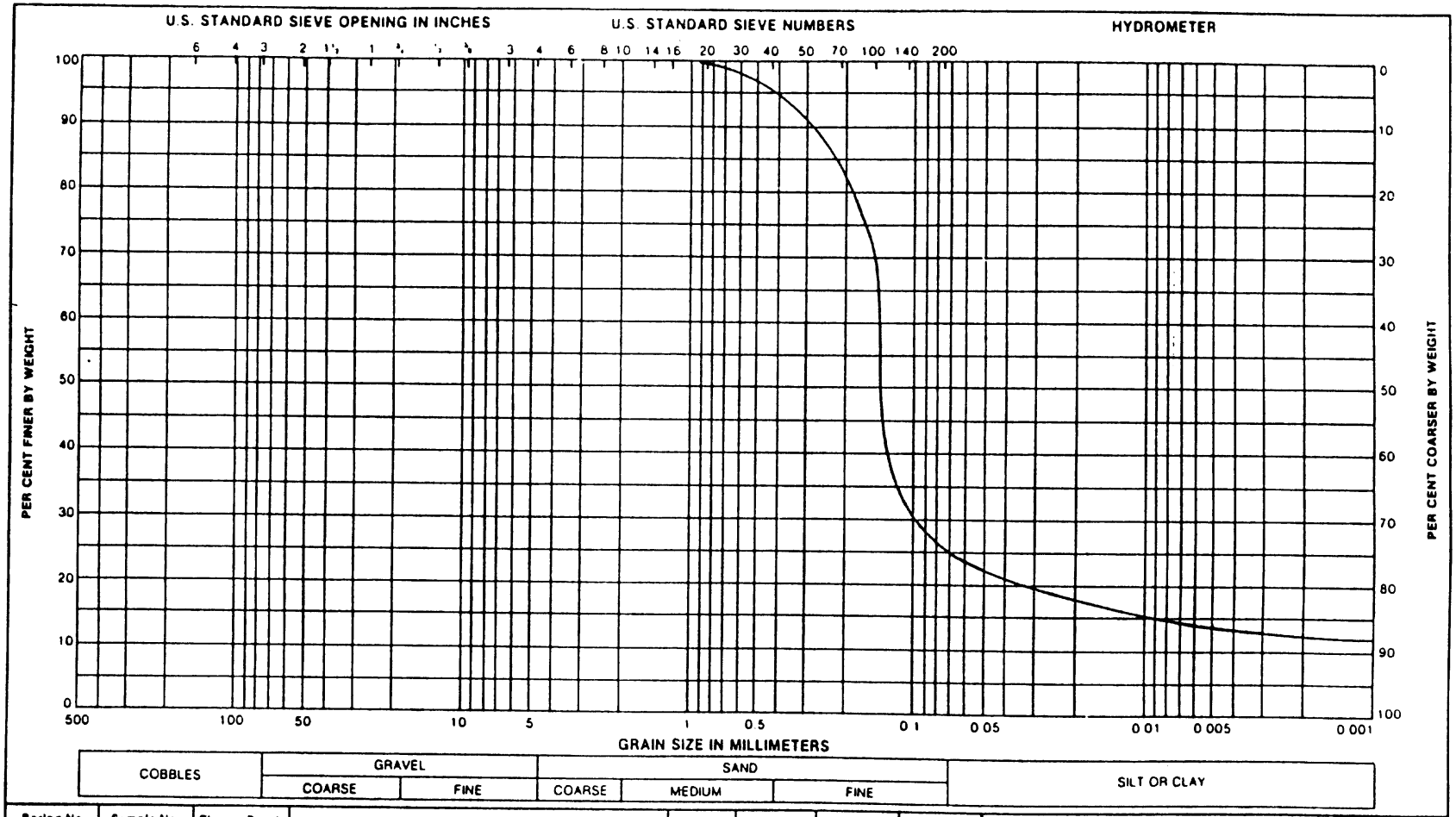
* Test not performed - disturbed sample



Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-2	I24.8	4.0'-6.0'	Red & tan poorly graded SAND with	4.9	--	--	NP	Soil Analysis-Project #F34650-93-D-0106
			silt (SP-SM)					Tinker AFB ITWP RCRA Facility Investigation
			Sand - 91%					Midwest City, Oklahoma
			Silt - 5%					
			Clay - 4%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

File No 547-35110-2



Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-8	S32.8	13.0'-14.0'	Reddish brown silty SAND (SM)	15.4	--	--	NP	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand - 74%					Midwest City, Oklahoma
			Silt - 12%					
			Clay - 14%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

File No 547-35110-2

TEST RESULTS

Boring #: SB-4 **Sample #:** I24.1 **Depth (ft):** 13.5'-15.0'

Description: Reddish brown sandy SILT

Classification (ASTM D2487): ML

Atterberg limits (ASTM D4318): Liquid Limit = 19
Plastic Limit = 18
Plasticity Index = 1

Moisture Content (ASTM D2216): 11.8%

Bulk Density (ASTM D2937): *

Organic Content (ASTM D2970): 1.9%

Constant Head Permeability (ASTM D2434): *

Porosity *

Particle Size Hydrometer (see attached curve)

* Test not performed - disturbed sample

Boring #: SB-4 **Sample #:** S32.8 **Depth (ft):** 4.0'-6.0'

Description: Red brown sandy silty CLAY

Classification (ASTM D2487): ML-CL

Atterberg limits (ASTM D4318): Liquid Limit = 27
Plastic Limit = 20
Plasticity Index = 7

Moisture Content (ASTM D2216): 17.2%

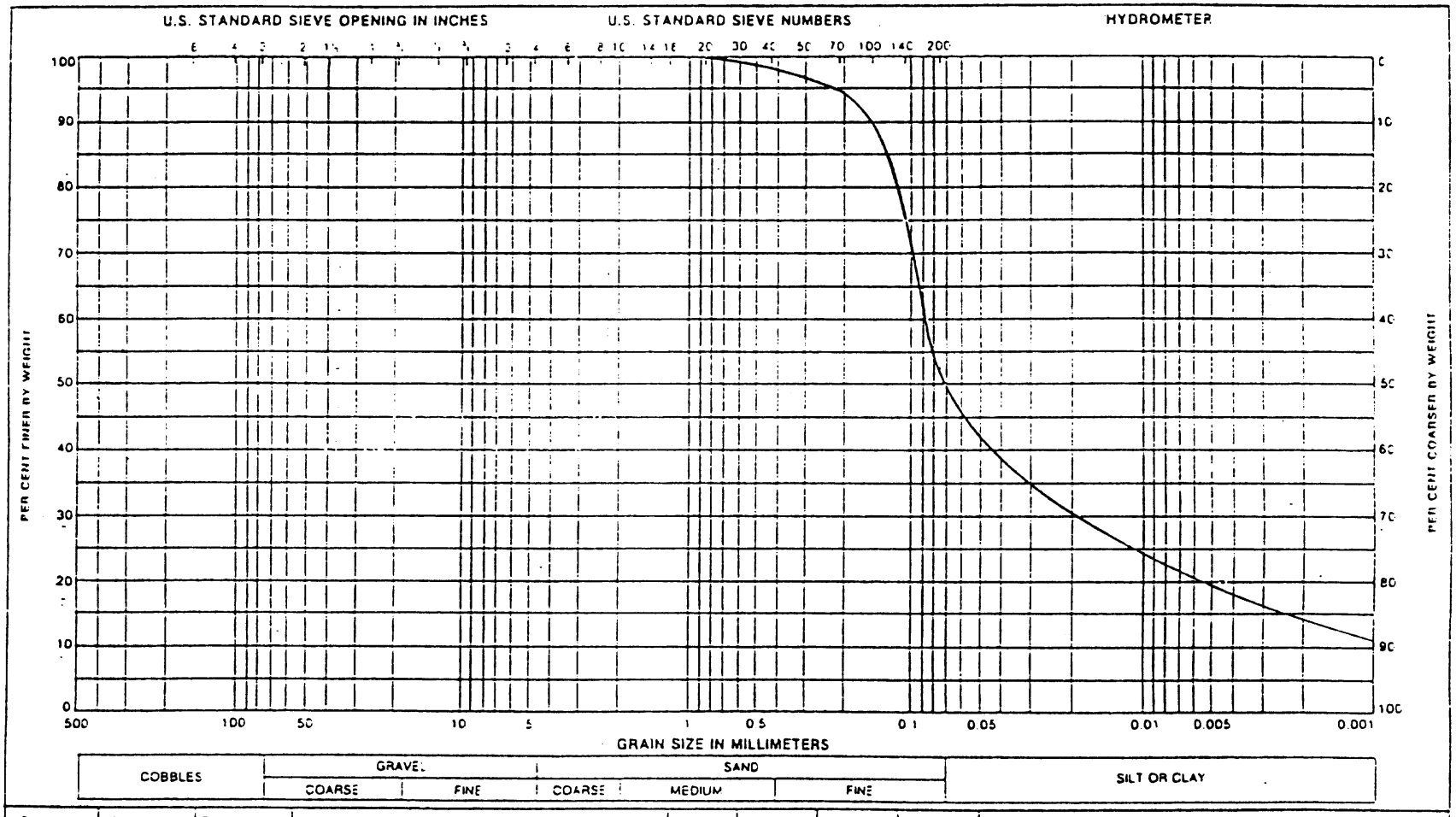
Bulk Density (ASTM D2937): 111.3 pcf

Organic Content (ASTM D2970): 3.0%

Constant Head Permeability (ASTM D2434): 1.0×10^{-6} cm/sec

Porosity 0.33

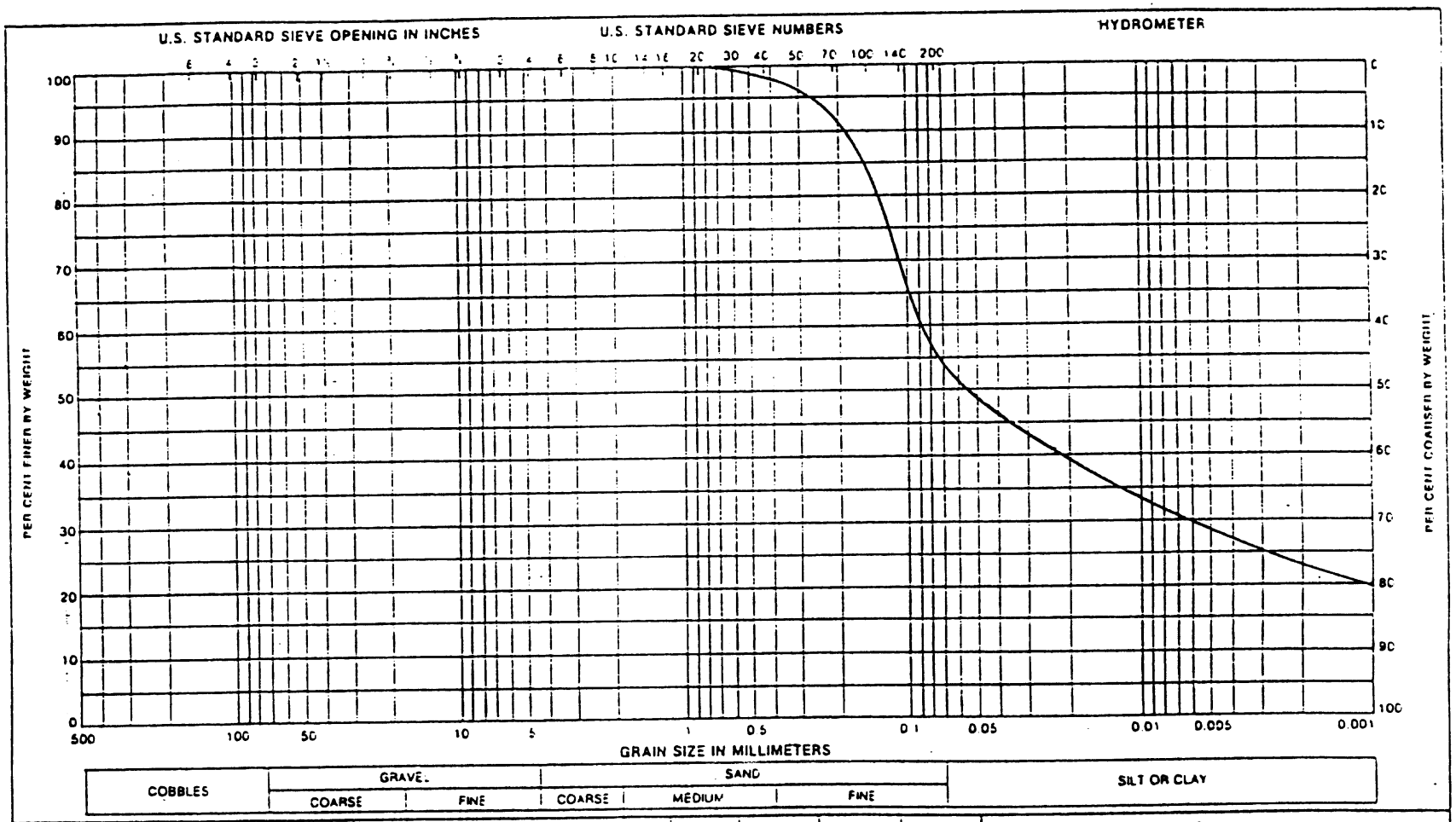
Particle Size Hydrometer (see attached curve)



Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-4	I24.1	13.5'-15.0	Reddish brown sandy SILT (ML)	11.8	19	18	1	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand - 43%					Midwest City, Oklahoma
			Silt - 37%					
			Clay - 20%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

File No 547-35110-2



Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-4	S32.8	4.0'-6.0'	Red brown sandy silty CLAY (ML-CL)	17.2	27	20	7	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand - 42%					Midwest City, Oklahoma
			Silt - 30%					
			Clay - 28%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

Fee No 547-35110-2

TEST RESULTS

Boring #: SB-8 **Sample #:** I24.19 **Depth (ft):** 9.5'-11.5'

Description: Red silty SAND

Classification (ASTM D2487): SM

Atterberg limits (ASTM D4318): Liquid Limit = 19
Plastic Limit = 16
Plasticity Index = 3

Moisture Content (ASTM D2216): 13.0%

Bulk Density (ASTM D2937): 114.8 pcf

Organic Content (ASTM D2970): 2.3%

Constant Head Permeability (ASTM D2434): 1.6×10^{-6} cm/sec

Porosity 0.31

Particle Size Hydrometer (see attached curve)

Boring #: SB-5 **Sample #:** S32.8 **Depth (ft):** 1.0'-3.0'

Description: Red brown sandy lean CLAY

Classification (ASTM D2487): CL

Atterberg limits (ASTM D4318): Liquid Limit = 26
Plastic Limit = 16
Plasticity Index = 10

Moisture Content (ASTM D2216): 16.9%

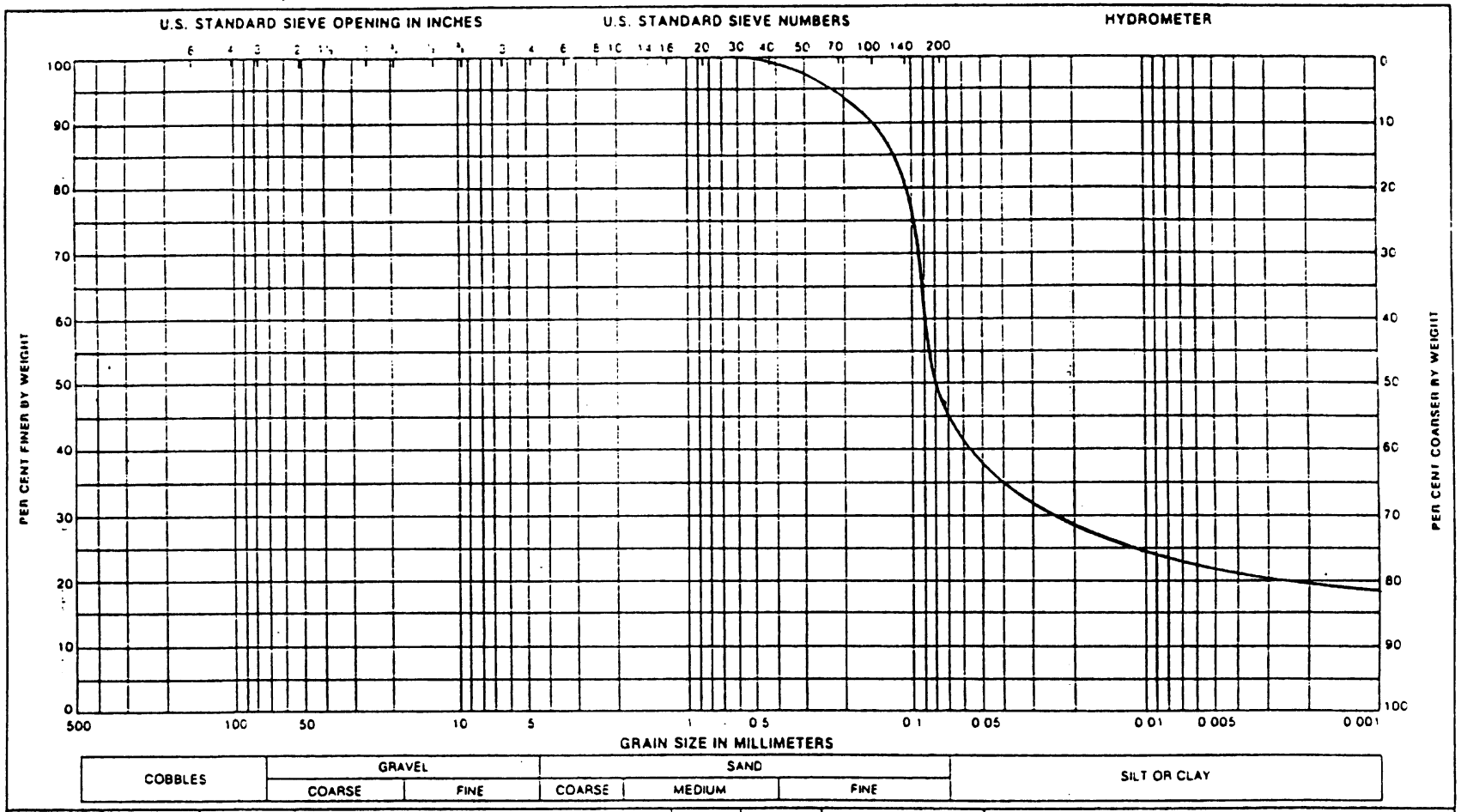
Bulk Density (ASTM D2937): 108.8 pcf

Organic Content (ASTM D2970): 2.7%

Constant Head Permeability (ASTM D2434): 2.6×10^{-8} cm/sec

Porosity 0.36

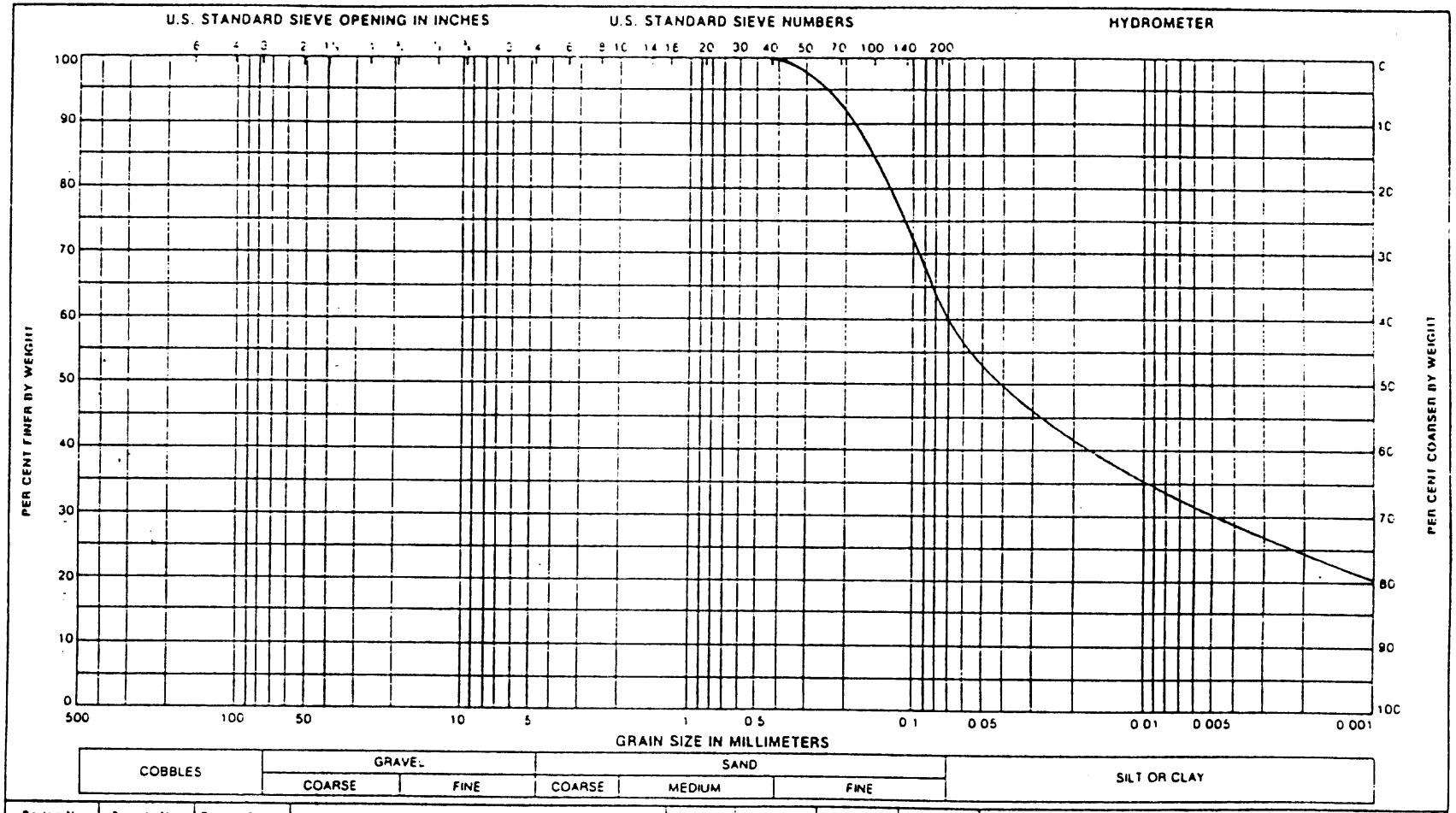
Particle Size Hydrometer (see attached curve)



Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-8	I24.19	9.5'-11.5'	Red silty SAND (SM)	13.0	19	16	3	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand - 52%					Midwest City, Oklahoma
			Silt - 26%					
			Clay - 22%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

FILE NO 547-35110-2



Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-5	S32.8	1.0'-3.0'	Red brown sandy lean CLAY (CL)	16.9	26	16	10	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand - 38%					Midwest City, Oklahoma
			Silt - 32%					
			Clay - 30%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

File No 547-35110-2

TEST RESULTS

Boring #: SB-11 **Sample #:** S32.8 **Depth (ft):** 0.5'-2.5'

Description: Red brown sandy SILT

Classification (ASTM D2487): ML

Atterberg limits (ASTM D4318): Liquid Limit = 20
Plastic Limit = 19
Plasticity Index = 1

Moisture Content (ASTM D2216): 13.1%

Bulk Density (ASTM D2937): 112.6 pcf

Organic Content (ASTM D2970): 2.0%

Constant Head Permeability (ASTM D2434): 7.6×10^{-7} cm/sec

Porosity 0.32

Particle Size Hydrometer (see attached curve)

Boring #: SB-10 **Sample #:** S32.8 **Depth (ft):** 1.0'-2.5'

Description: Dark brown silty SAND with strong odor

Classification (ASTM D2487): SM

Atterberg limits (ASTM D4318): Liquid Limit = 18
Plastic Limit = 17
Plasticity Index = 1

Moisture Content (ASTM D2216): 12.0%

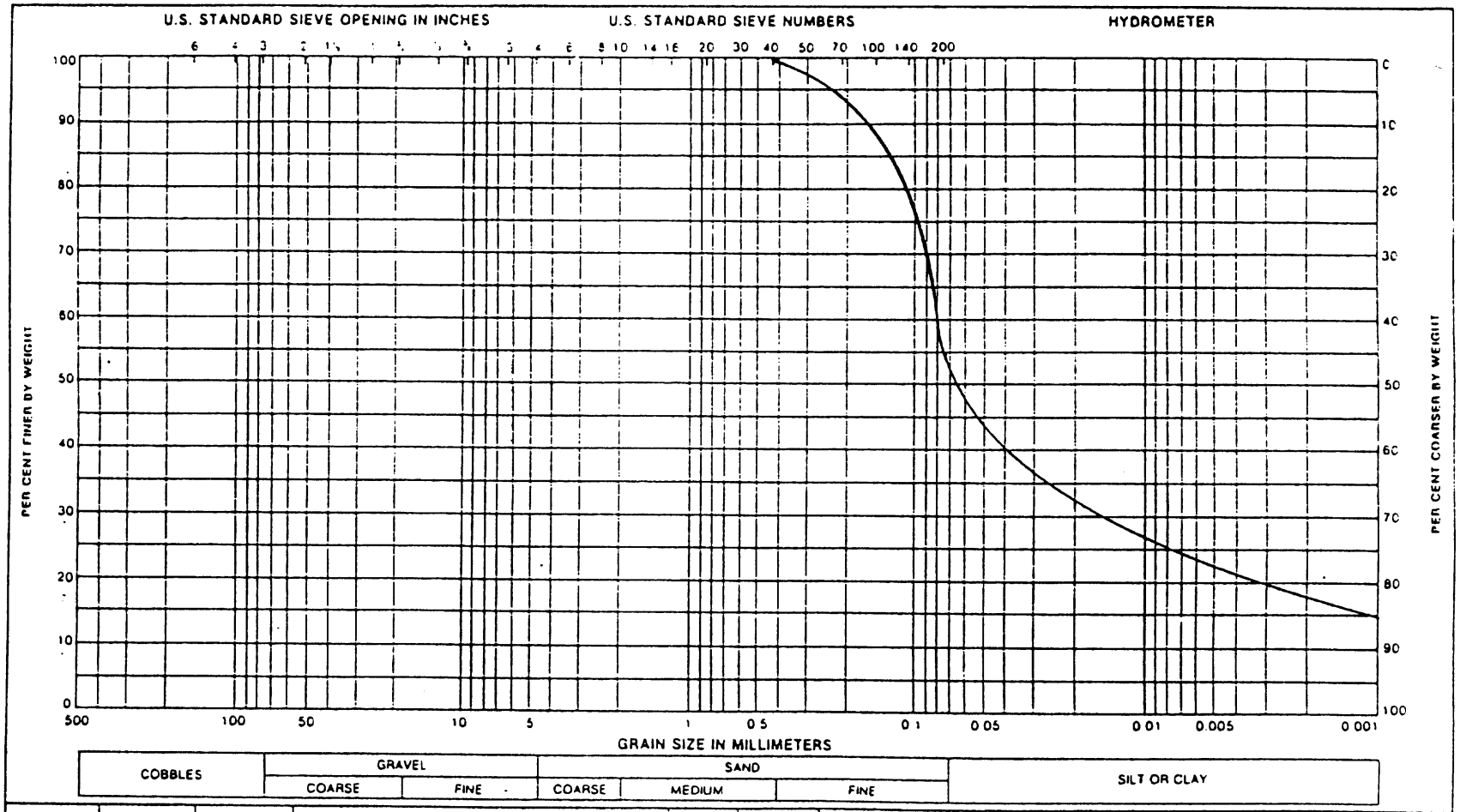
Bulk Density (ASTM D2937): 121.0 pcf

Organic Content (ASTM D2970): 4.3%

Constant Head Permeability (ASTM D2434): 7.0×10^{-7} cm/sec

Porosity 0.27

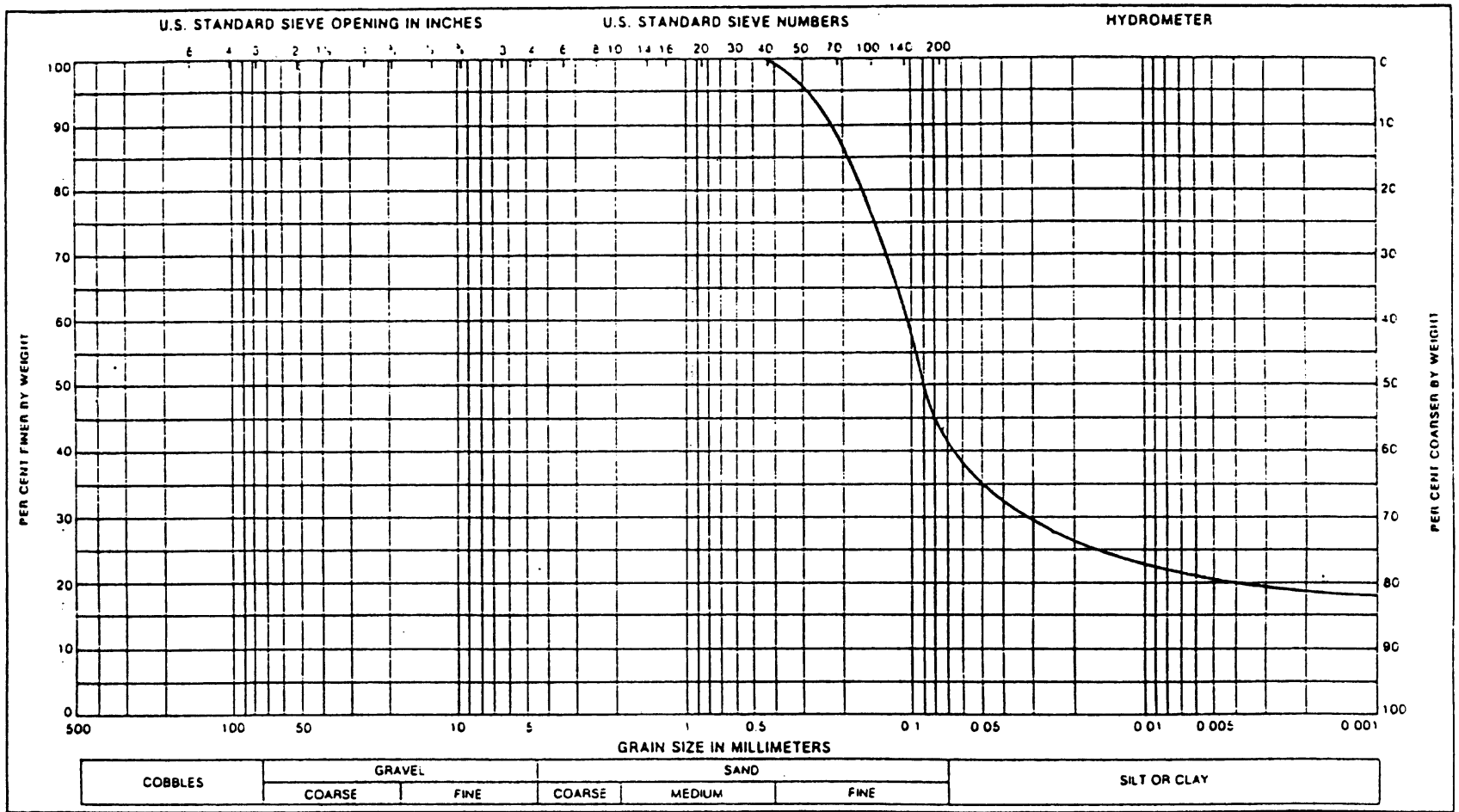
Particle Size Hydrometer (see attached curve)



Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-11	S32.8	0.5'-2.5'	Red brown sandy SILT (ML)	13.1	20	19	1	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand - 45%					Midwest City, Oklahoma
			Silt - 32%					
			Clay - 23%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

File No 547-35110-2



Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-10	S32.8	1.0'-2.5'	Dark brown silty SAND with strong	12.0	18	17	1	Soil Analysis-Project #F34650-93-D-0106
			odor (SM)					Tinker AFB ITWP RCRA Facility Investigation
			Sand - 57%					Midwest City, Oklahoma
			Silt - 22%					
			Clay - 21%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

File No 547-35110-2

TEST RESULTS

Boring #: SB-16 **Sample #:** S32.8 **Depth (ft):** 0-2.0'

Description: Red brown sandy lean CLAY

Classification (ASTM D2487): CL

Atterberg limits (ASTM D4318): Liquid Limit = 27
Plastic Limit = 19
Plasticity Index = 8

Moisture Content (ASTM D2216): 9.1%

Bulk Density (ASTM D2937): *

Organic Content (ASTM D2970): 4.8%

Constant Head Permeability (ASTM D2434): *

Porosity *

Particle Size Hydrometer (see attached curve)

* Test not performed - disturbed sample

Boring #: SB-9 **Sample #:** S32.8 **Depth (ft):** 4.0'-6.0'

Description: Dark brown sandy lean CLAY

Classification (ASTM D2487): CL

Atterberg limits (ASTM D4318): Liquid Limit = 34
Plastic Limit = 17
Plasticity Index = 17

Moisture Content (ASTM D2216): 15.8%

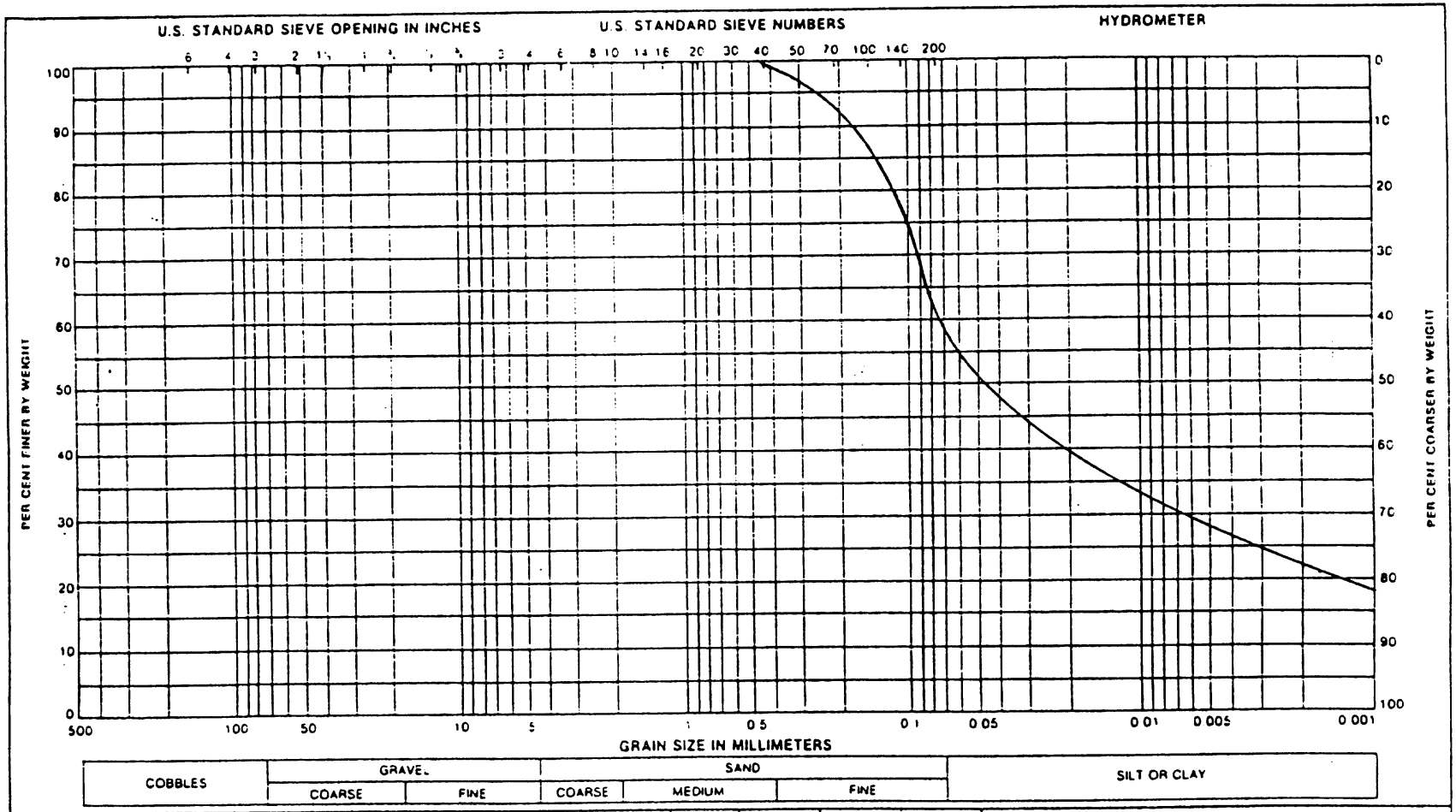
Bulk Density (ASTM D2937): 118.8 pcf

Organic Content (ASTM D2970): 4.7%

Constant Head Permeability (ASTM D2434): 7.1×10^{-8} cm/sec.

Porosity 0.30

Particle Size Hydrometer (see attached curve)



Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-16	S32.8	0-2.0'	Red brown sandy lean CLAY (CL)	9.1	27	19	8	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand - 40%					Midwest City, Oklahoma
			Silt - 32%					
			Clay - 28%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

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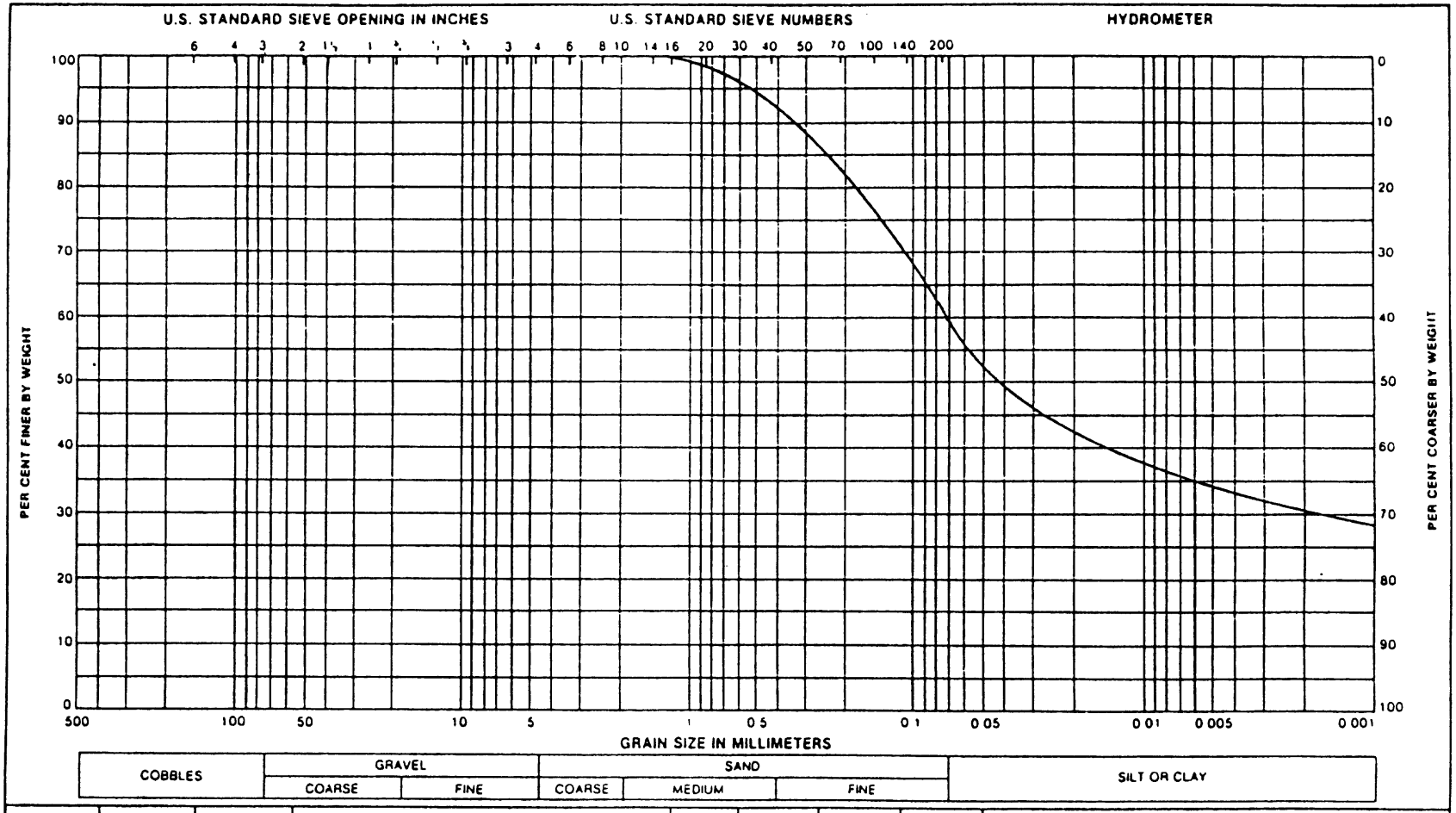


Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-9	S32.8	4.0'-6.0'	Dark brown sandy lean CLAY (CL)	15.8	34	17	17	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand - 38%					Midwest City, Oklahoma
			Silt - 28%					
			Clay - 34%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

File No 547-35110-2

TEST RESULTS

Boring #: SB-18 **Sample #:** S32.8 **Depth (ft):** 0.5'-2.5'

Description: Red brown sandy silty CLAY

Classification (ASTM D2487): ML-CL

Atterberg limits (ASTM D4318): Liquid Limit = 24
Plastic Limit = 19
Plasticity Index = 5

Moisture Content (ASTM D2216): 13.3%

Bulk Density (ASTM D2937): 117.3 pcf

Organic Content (ASTM D2970): 3.8%

Constant Head Permeability (ASTM D2434): 7.8×10^{-7} cm/sec.

Porosity 0.31

Particle Size Hydrometer (see attached curve)

Boring #: SB-4 **Sample #:** I24.19 **Depth (ft):** 17.0'-18.0'

Description: Red brown clayey SAND

Classification (ASTM D2487): SC

Atterberg limits (ASTM D4318): Liquid Limit = 23
Plastic Limit = 17
Plasticity Index = 6

Moisture Content (ASTM D2216): 18.7%

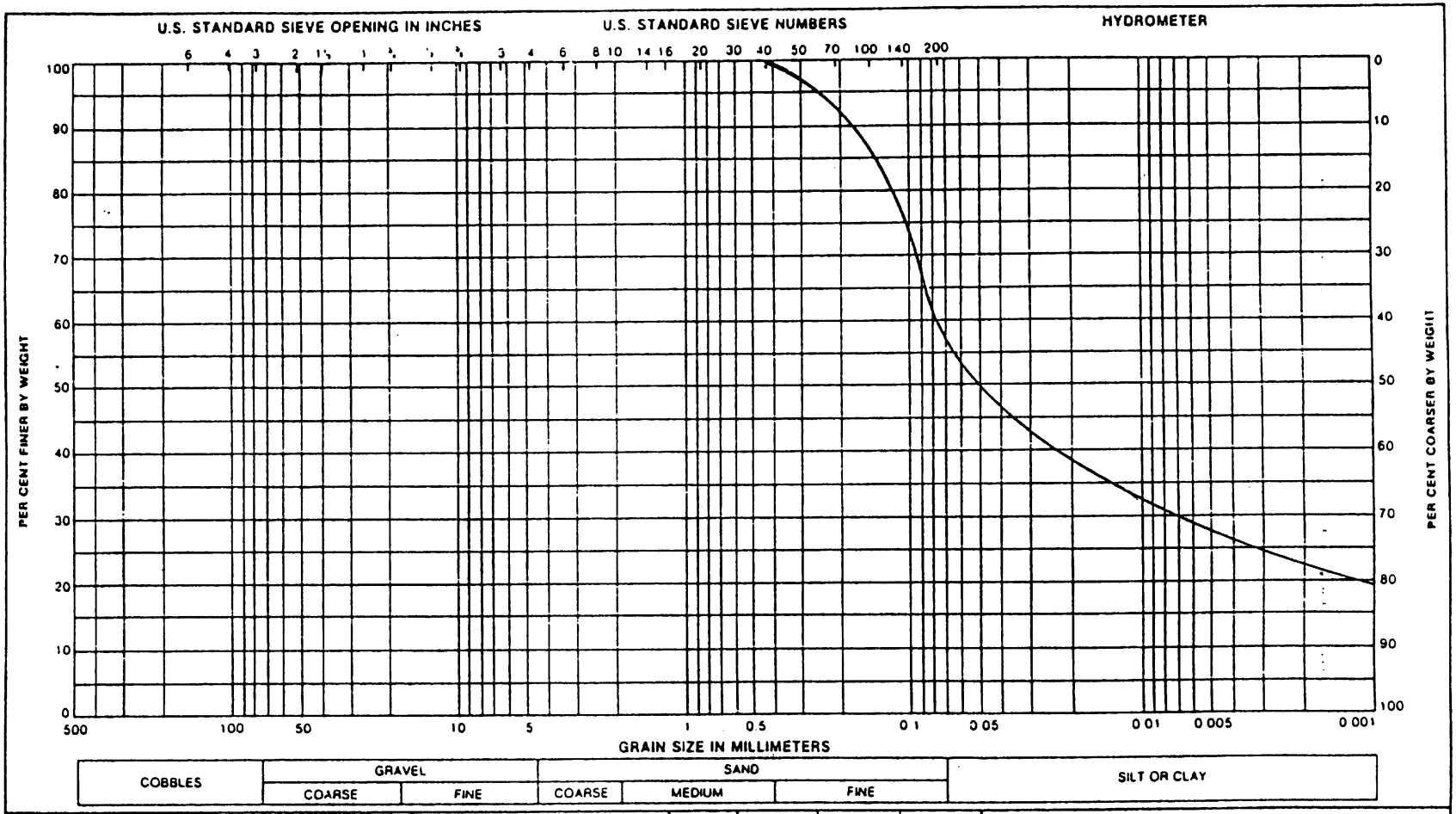
Bulk Density (ASTM D2937): 111.7 pcf

Organic Content (ASTM D2970): 3.6%

Constant Head Permeability (ASTM D2434): 3.9×10^{-7} cm/sec

Porosity 0.33

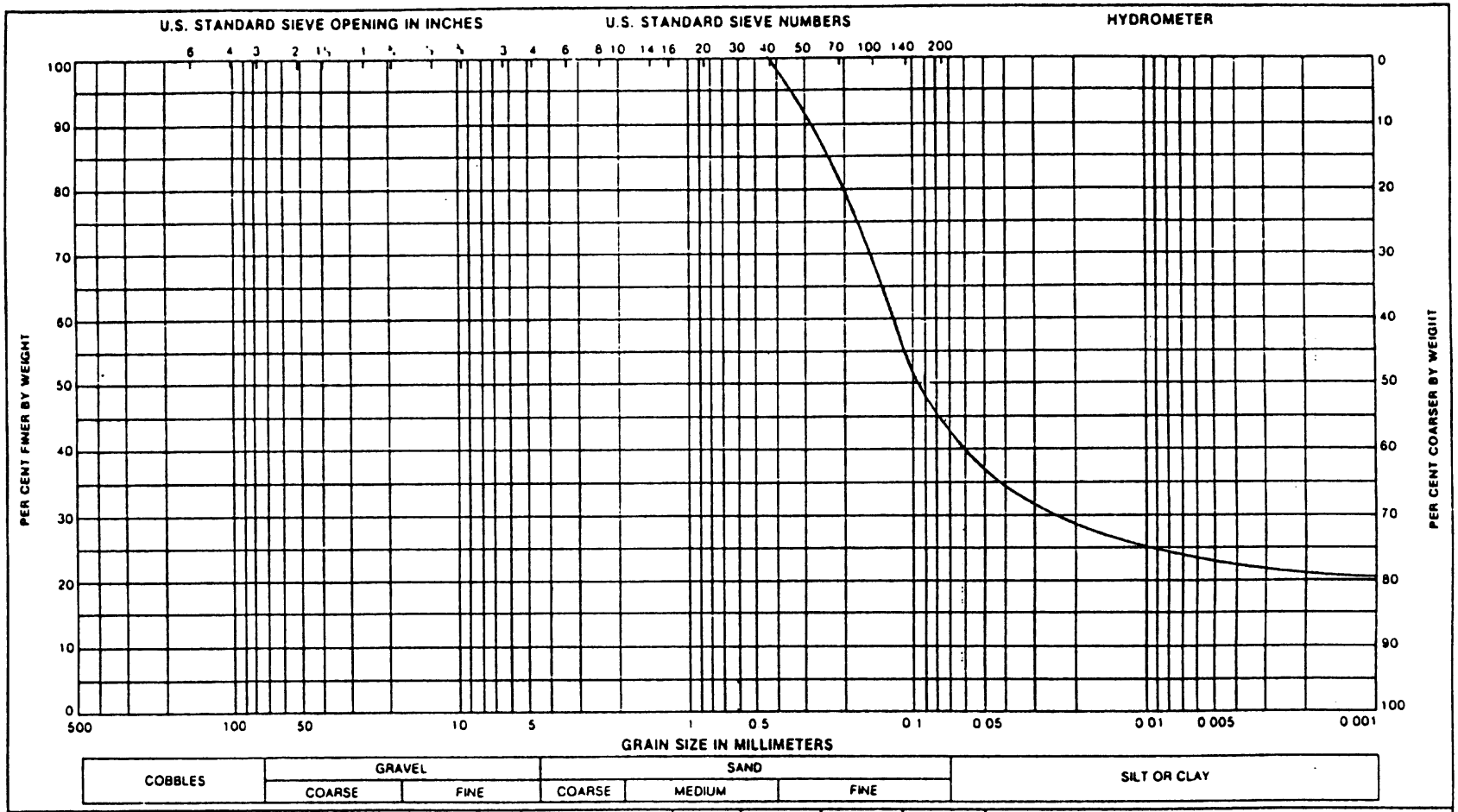
Particle Size Hydrometer (see attached curve)



Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-18	S32.8	0.5'-2.5'	Red brown sandy silty CLAY (ML-CL)	13.3	24	19	5	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand - 42%					Midwest City, Oklahoma
			Silt - 30%					
			Clay - 28%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

File No 547-35110-2



Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-4	I24.19	17.0'-18.0'	Red brown clayey SAND (SC)	18.7	23	17	6	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand - 56%					Midwest City, Oklahoma
			Silt - 21%					
			Clay - 23%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

File No. 547-35110-2

TEST RESULTS

Boring #: SB-3 **Sample #:** I24.8 **Depth (ft):** 4.0'-5.5'

Description: Red brown silty SAND

Classification (ASTM D2487): SM

Atterberg limits (ASTM D4318): Liquid Limit = --
Plastic Limit = --
Plasticity Index = NP

Moisture Content (ASTM D2216): 15.0%

Bulk Density (ASTM D2937): *

Organic Content (ASTM D2970): 4.0%

Constant Head Permeability (ASTM D2434): *

Porosity *

Particle Size Hydrometer (see attached curve)

* Test not performed - disturbed sample

Boring #: SB-4 **Sample #:** I24.2 **Depth (ft):** 4.0'-6.0'

Description: Red brown lean CLAY with sand

Classification (ASTM D2487): CL

Atterberg limits (ASTM D4318): Liquid Limit = 31
Plastic Limit = 20
Plasticity Index = 11

Moisture Content (ASTM D2216): 19.4%

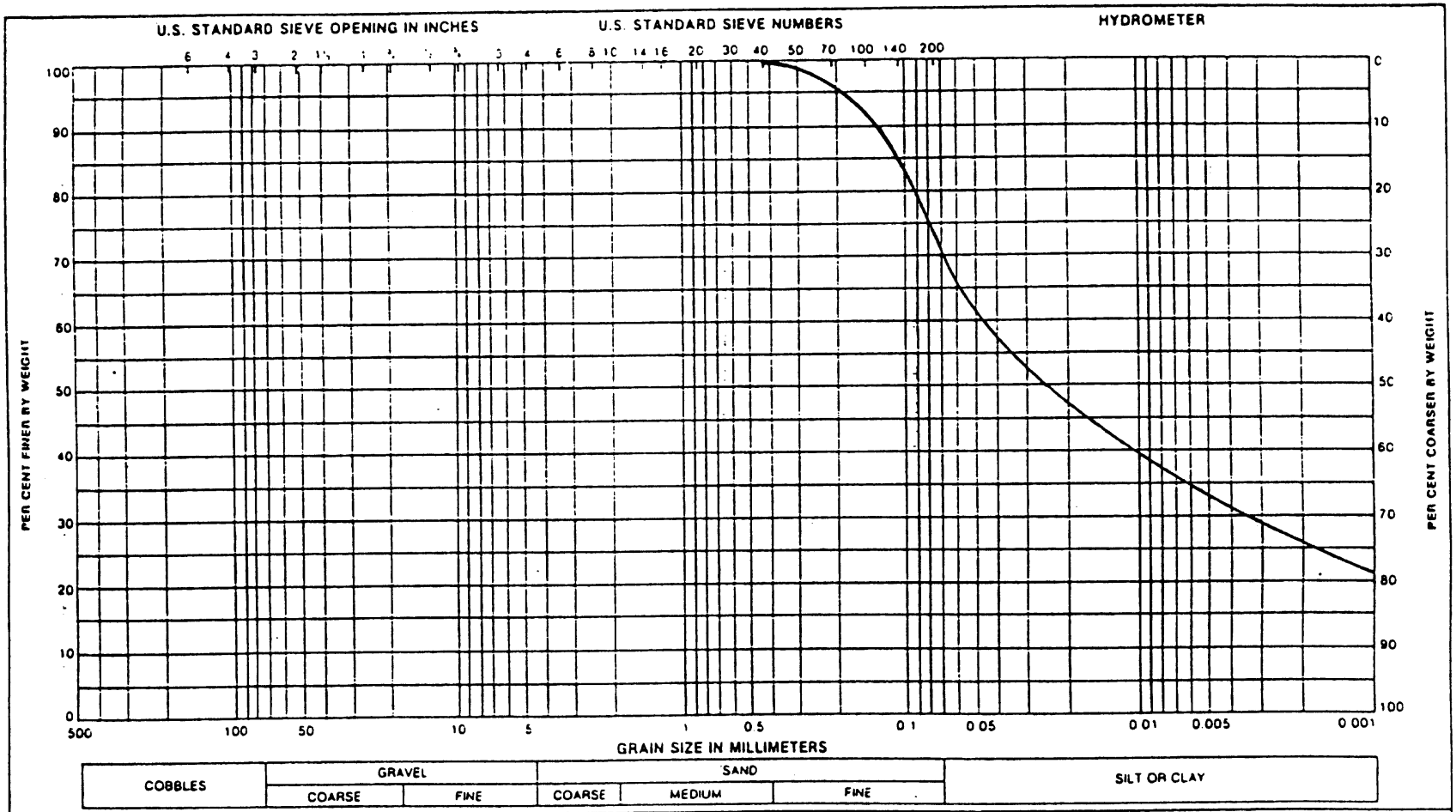
Bulk Density (ASTM D2937): 112.6 pcf

Organic Content (ASTM D2970): 5.6%

Constant Head Permeability (ASTM D2434): 4.5×10^{-8} cm/sec.

Porosity 0.33

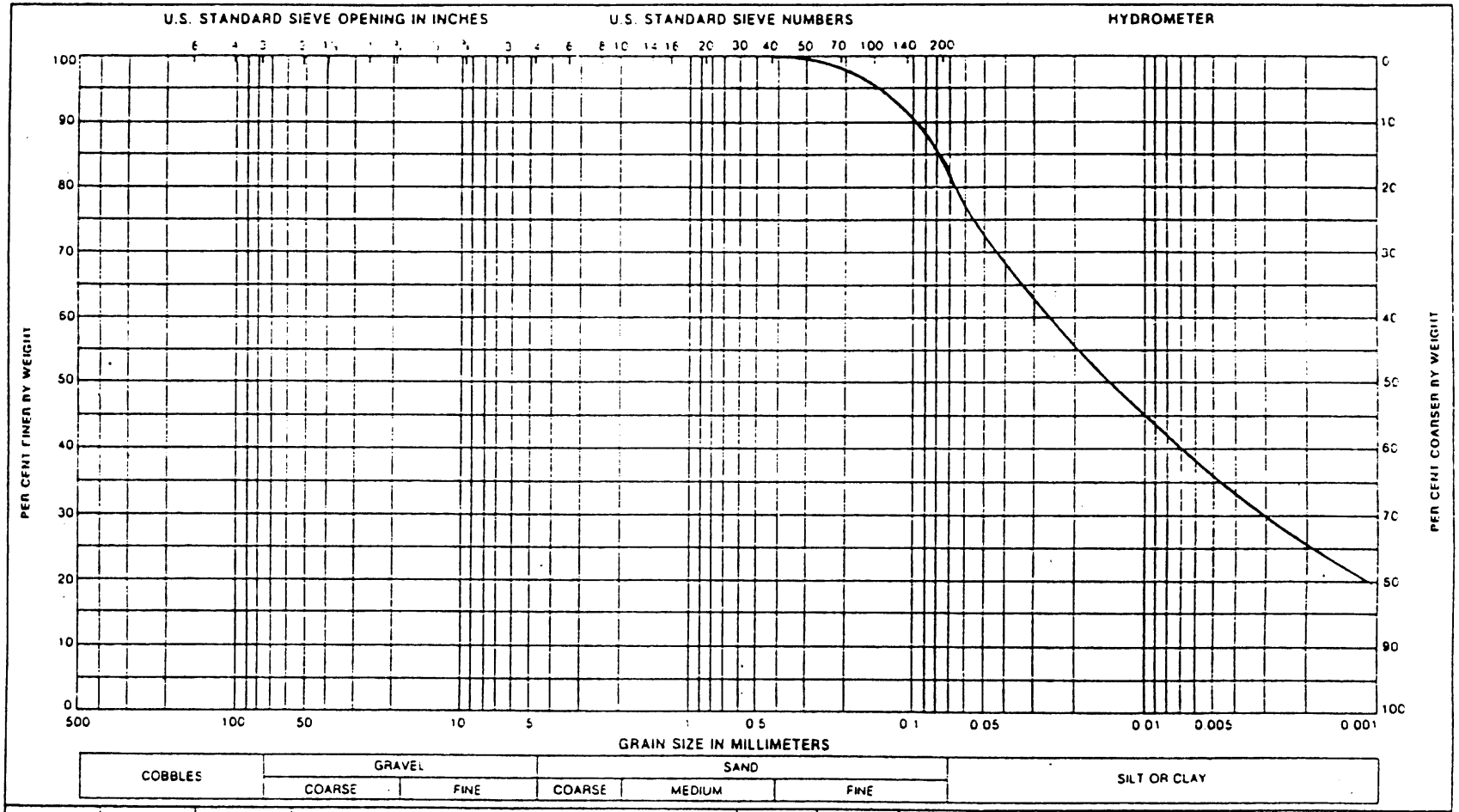
Particle Size Hydrometer (see attached curve)



Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-3	I24.8	4.0'-5.5'	Red brown silty SAND (SM)	15.0	--	--	NP	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand - 26%					Midwest City, Oklahoma
			Silt - 41%					
			Clay - 33%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

File No. 547-35110-2



Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-4	I24.2	4.0'-6.0'	Red brown lean CLAY with sand (CL)	19.4	31	20	11	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand - 16%					Midwest City, Oklahoma
			Silt - 38%					
			Clay - 46%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

File No 547-35110-2

TEST RESULTS

Boring #: SB-6 **Sample #:** S32.8 **Depth (ft):** 6.0'-8.0'

Description: Red brown lean CLAY with sand

Classification (ASTM D2487): CL

Atterberg limits (ASTM D4318): Liquid Limit = 24
Plastic Limit = 16
Plasticity Index = 8

Moisture Content (ASTM D2216): 17.1%

Bulk Density (ASTM D2937): 109.6 pcf

Organic Content (ASTM D2970): 3.5%

Constant Head Permeability (ASTM D2434): 3.1×10^{-7} cm/sec.

Porosity 0.33

Particle Size Hydrometer (see attached curve)

Boring #: SB-4 **Sample #:** I24.10 **Depth (ft):** 4.0'-6.0'

Description: Red brown clayey SAND

Classification (ASTM D2487): SC

Atterberg limits (ASTM D4318): Liquid Limit = --
Plastic Limit = --
Plasticity Index = NP

Moisture Content (ASTM D2216): 9.5%

Bulk Density (ASTM D2937): *

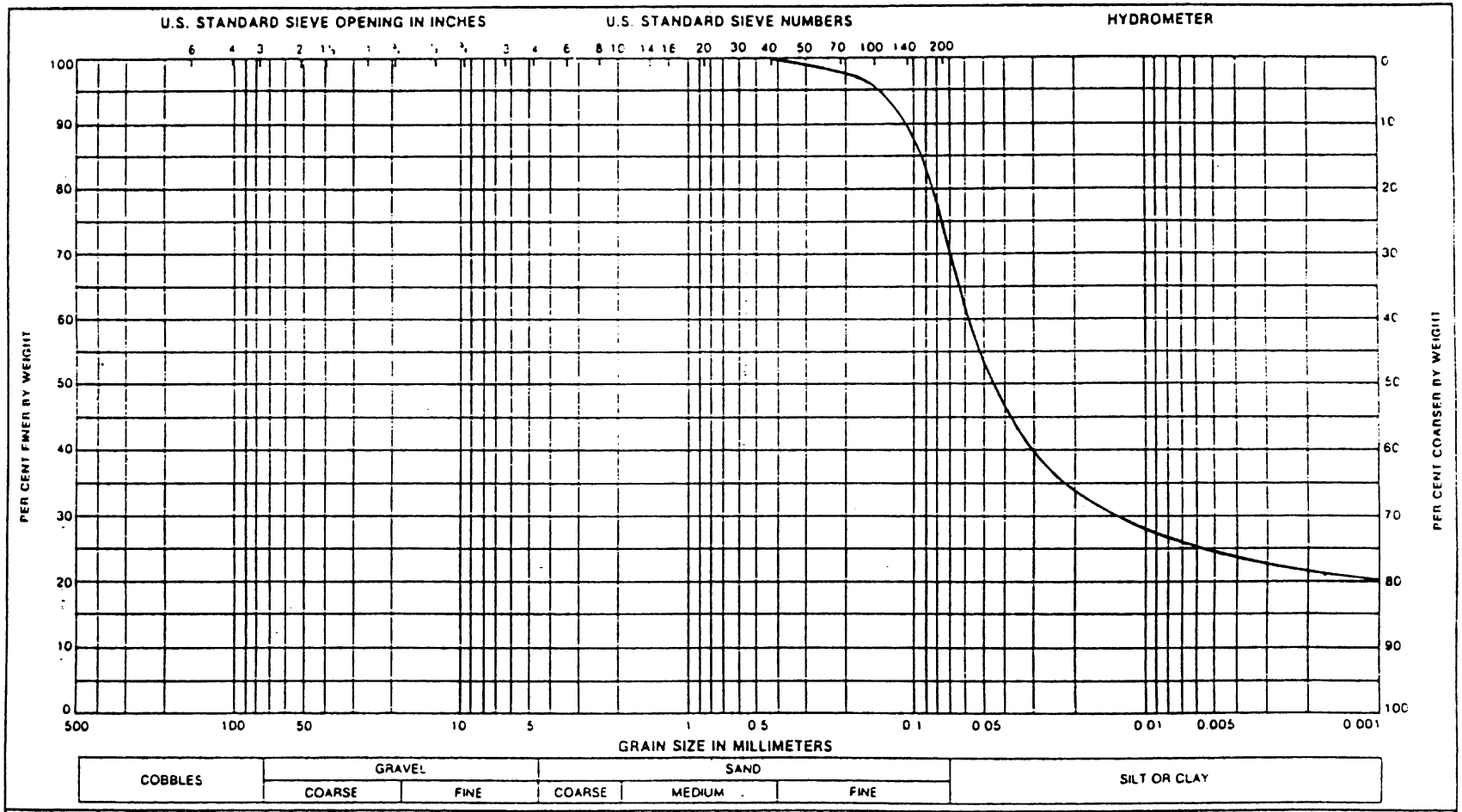
Organic Content (ASTM D2970): 3.5%

Constant Head Permeability (ASTM D2434): *

Porosity *

Particle Size Hydrometer (see attached curve)

* Test not performed - disturbed sample



Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-6	S32.8	6.0'-8.0'	Red brown lean CLAY with sand (CL)	17.1	24	16	8	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand - 25%					Midwest City, Oklahoma
			Silt - 50%					
			Clay - 25%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

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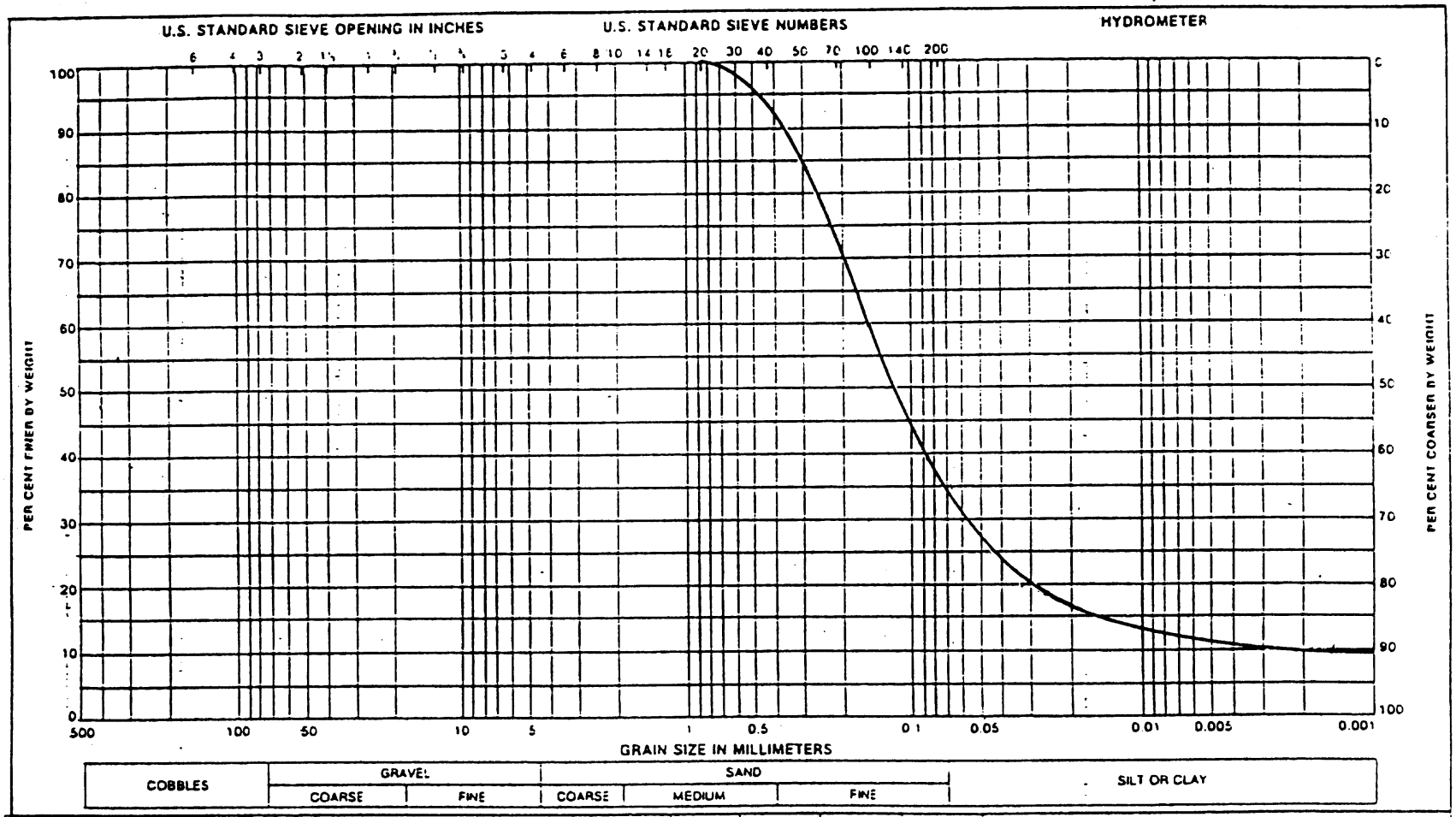


Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-4	I24.10	4.0'-6.0'	Red brown clayey SAND (SC)	9.5	--	--	NP	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand - 64%					Midwest City, Oklahoma
			Silt - 8%					
			Clay - 28%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

Fee No 547-35110-2

TEST RESULTS

Boring #: SB-1 **Sample #:** I24.10 **Depth (ft):** 2.0'-4.0'

Description: Red clayey silty SAND

Classification (ASTM D2487): SC-SM

Atterberg limits (ASTM D4318): Liquid Limit = 19%
Plastic Limit = --
Plasticity Index = NP

Moisture Content (ASTM D2216): 6.1%

Bulk Density (ASTM D2937): 111.5 pcf

Organic Content (ASTM D2970): 3.6%

Constant Head Permeability (ASTM D2434): 2.7×10^{-5} cm/sec

Particle Size Hydrometer (see attached curve)

Boring #: SB-1 **Sample #:** I24.12 **Depth (ft):** 2.0'-4.0'

Description: Brown silty SAND

Classification (ASTM D2487): SM

Atterberg limits (ASTM D4318): Liquid Limit = --
Plastic Limit = --
Plasticity Index = NP

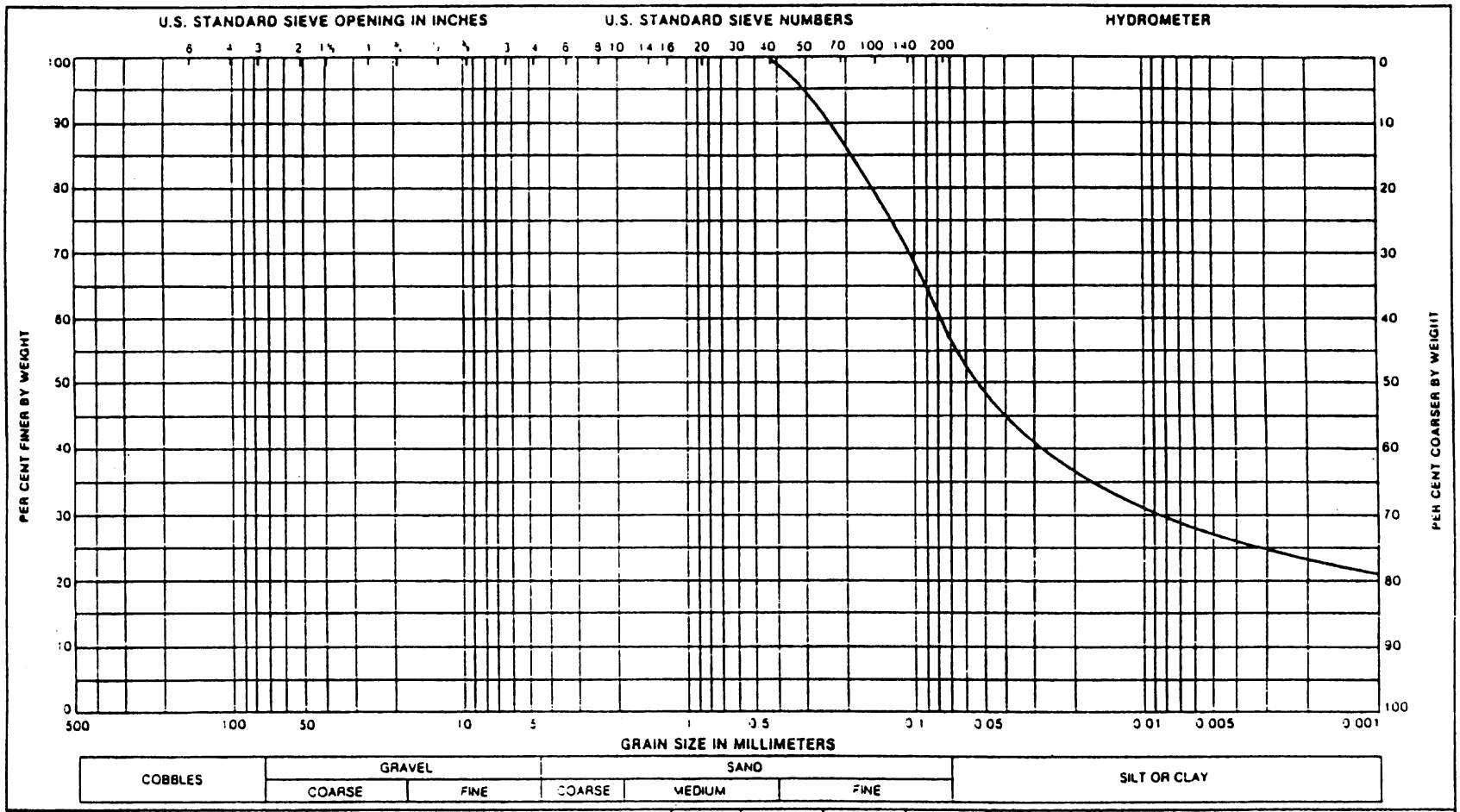
Moisture Content (ASTM D2216): 5.9%

Bulk Density (ASTM D2937): 123.8 pcf

Organic Content (ASTM D2970): 3.3%

Constant Head Permeability (ASTM D2434): 9.8×10^{-7} cm/sec

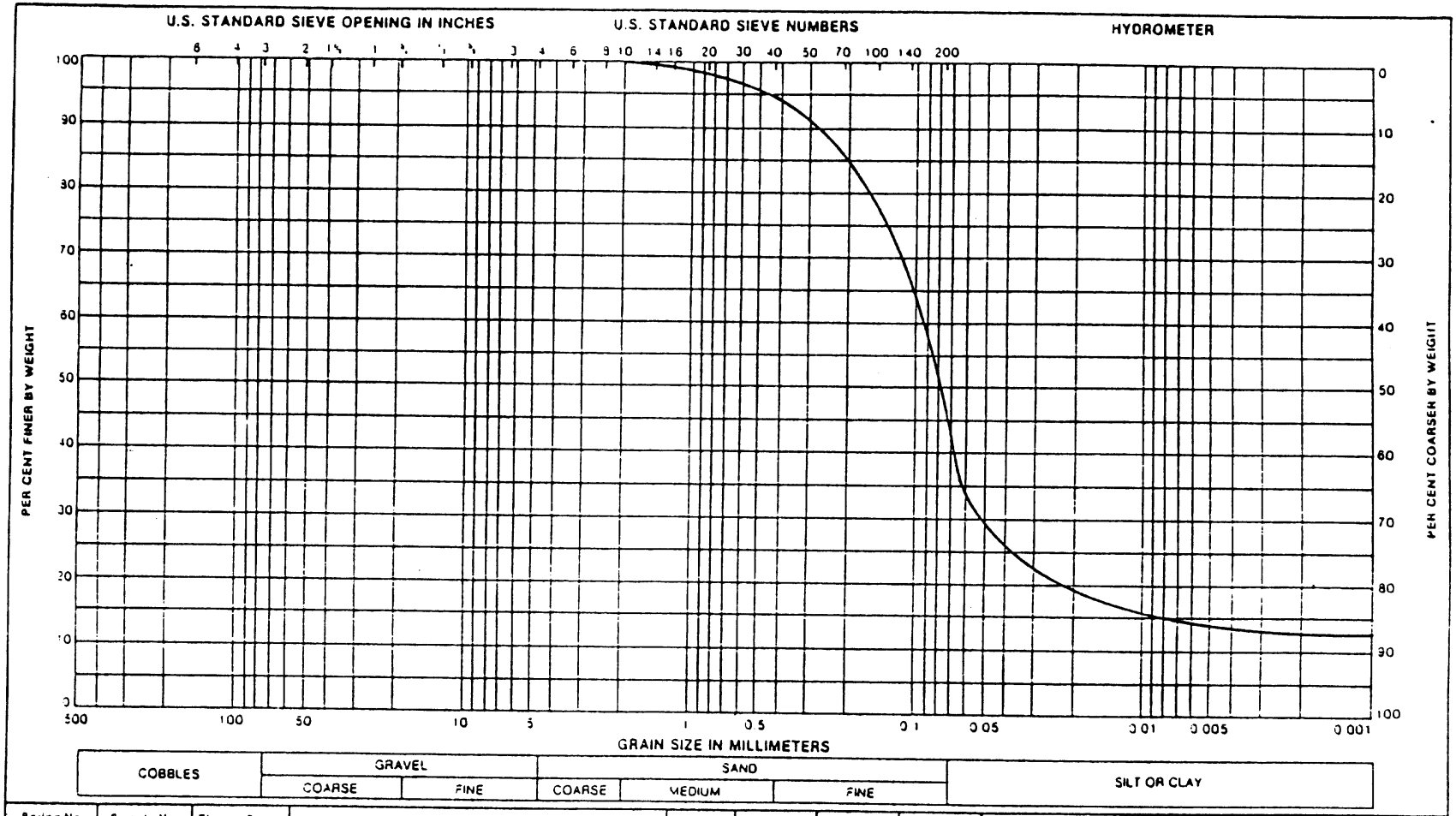
Particle Size Hydrometer (see attached curve)



Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-1	I24.10	2.0'- 4.0'	Red clayey silty SAND (SC-SM)	6.1	19	--	NP	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand - 42%					Midwest City, Oklahoma
			Silt - 31%					
			Clay - 27%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

File No. 547-35110-1



Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-1	I24.12	2.0'-4.0'	Brown silty SAND (SM)	5.9	--	--	NP	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand - 54%					Midwest City, Oklahoma
			Silt - 32%		•			
			Clay - 14%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

File No 547-35110-1

TEST RESULTS

Boring #: SB-2 **Sample #:** I24.10 **Depth (ft):** 4.0'-6.0'

Description: Red clayey silty SAND

Classification (ASTM D2487): SC-SM

Atterberg limits (ASTM D4318): Liquid Limit = 20
Plastic Limit = 19
Plasticity Index = 1

Moisture Content (ASTM D2216): 14.6%

Bulk Density (ASTM D2937): 116.1 pcf

Organic Content (ASTM D2970): 3.0%

Constant Head Permeability (ASTM D2434): 1.7×10^{-6} cm/sec

Particle Size Hydrometer (see attached curve)

Boring #: SB-2 **Sample #:** I24.12 **Depth (ft):** 4.0'-6.0'

Description: Red brown silty SAND

Classification (ASTM D2487): SM

Atterberg limits (ASTM D4318): Liquid Limit = 18
Plastic Limit = 18
Plasticity Index = NP

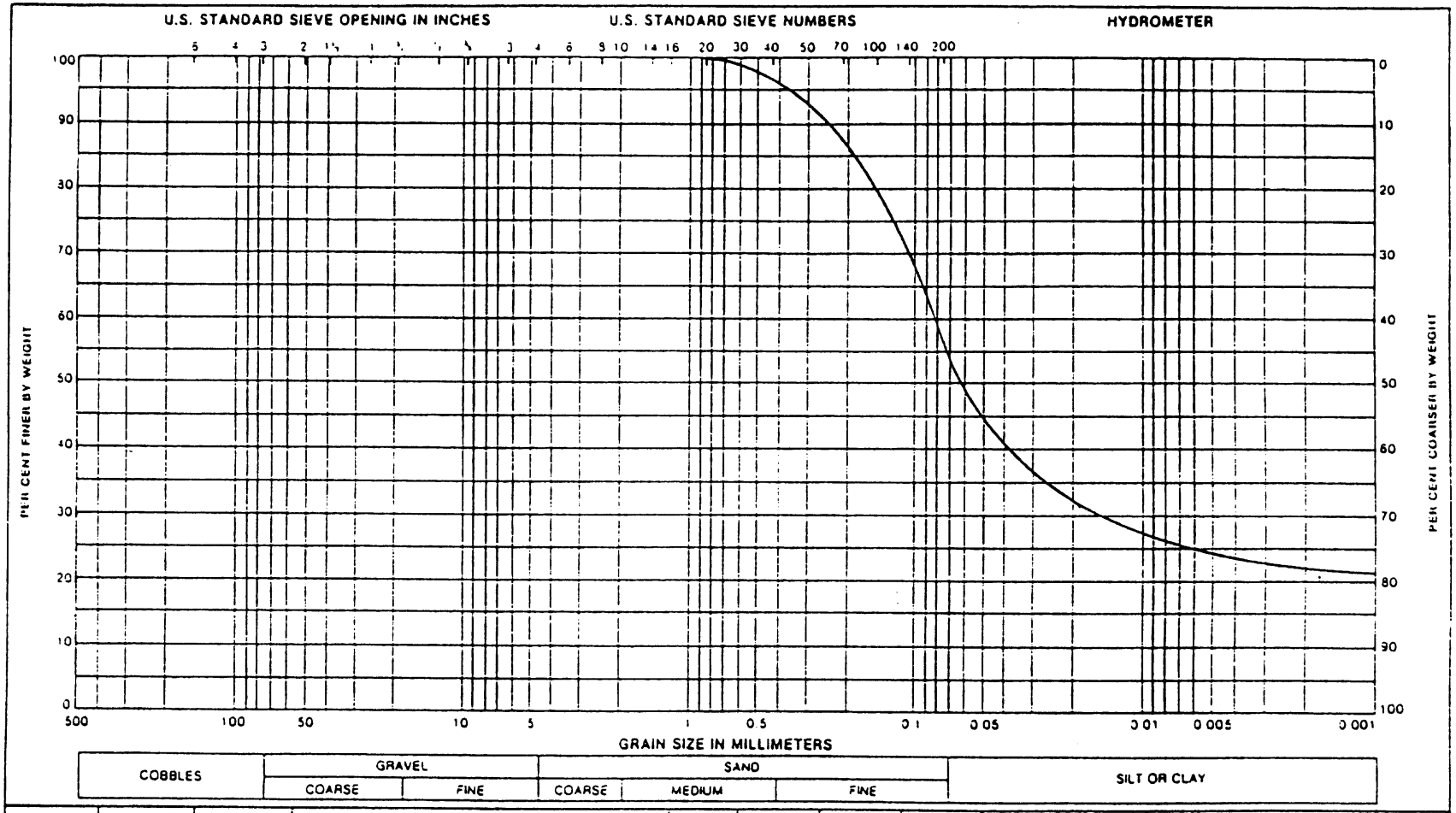
Moisture Content (ASTM D2216): 7.9%

Bulk Density (ASTM D2937): 106.2 pcf

Organic Content (ASTM D2970): 2.3%

Constant Head Permeability (ASTM D2434): 1.4×10^{-5} cm/sec

Particle Size Hydrometer (see attached curve)



Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-2	I24.10	4.0'-6.0'	Red clayey silty SAND (SC-SM)	14.5	20	19	1	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand - 44%					Midwest City, Oklahoma
			Silt - 32%					
			Clay - 24%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

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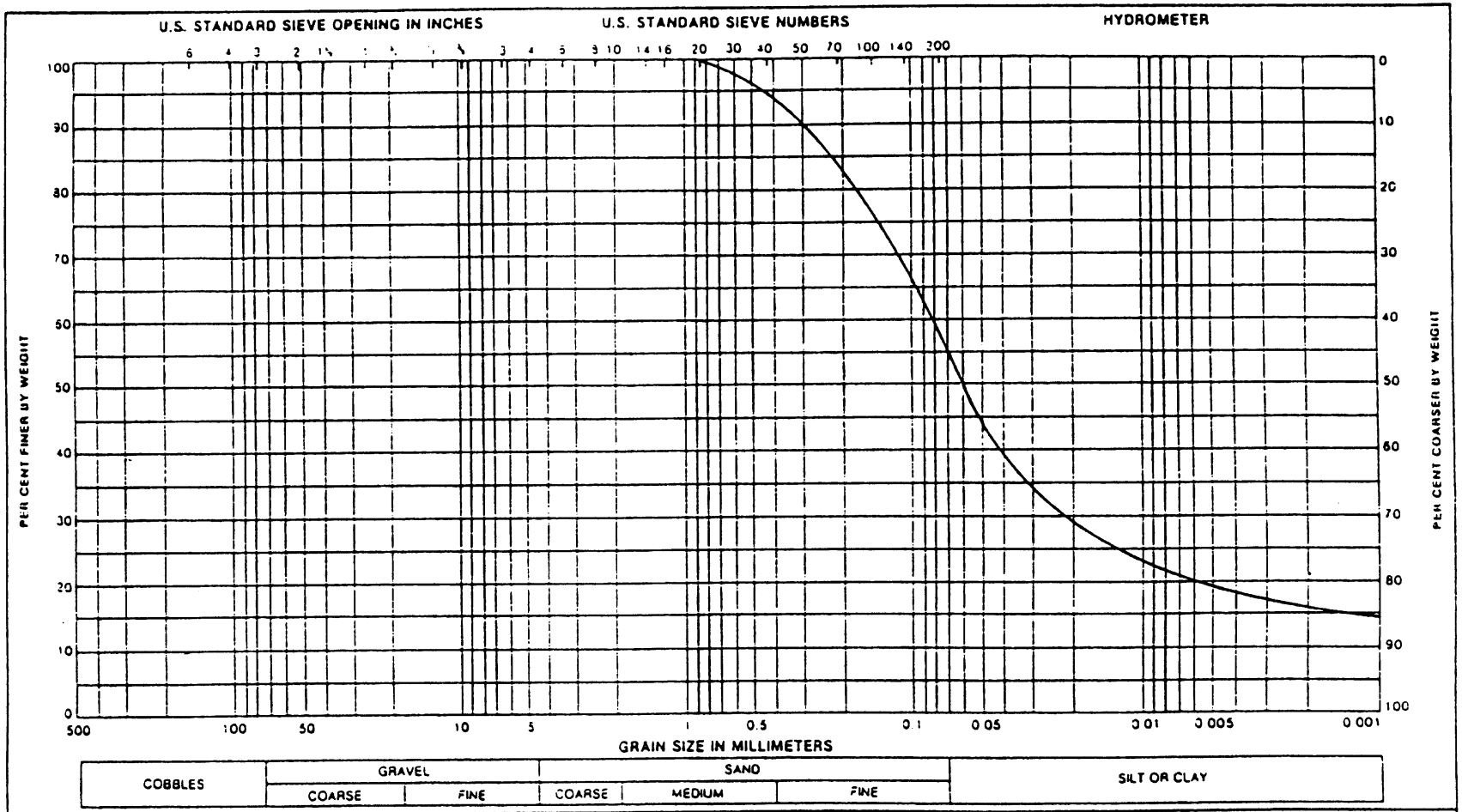

Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-2	I24.12	4.0'-6.0'	Red brown silty SAND (SM)	7.9	18	18	NP	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand - 43%					Midwest City, Oklahoma
			Silt - 38%					
			Clay - 19%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

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TEST RESULTS

Boring #: SB-3 **Sample #:** I24.12 **Depth (ft):** 6.0'-8.0'

Description: Red brown clayey silty SAND

Classification (ASTM D2487): SC-SM

Atterberg limits (ASTM D4318): Liquid Limit = 20
Plastic Limit = 17
Plasticity Index = 3

Moisture Content (ASTM D2216): 12.1%

Bulk Density (ASTM D2937): 109.1 pcf

Organic Content (ASTM D2970): 2.5%

Constant Head Permeability (ASTM D2434): 2.3×10^{-5} cm/sec

Particle Size Hydrometer (see attached curve)

Boring #: SB-4 **Sample #:** I24.12 **Depth (ft):** 8.0'-10.0'

Description: Red brown silty SAND

Classification (ASTM D2487): SM

Atterberg limits (ASTM D4318): Liquid Limit = --
Plastic Limit = --
Plasticity Index = NP

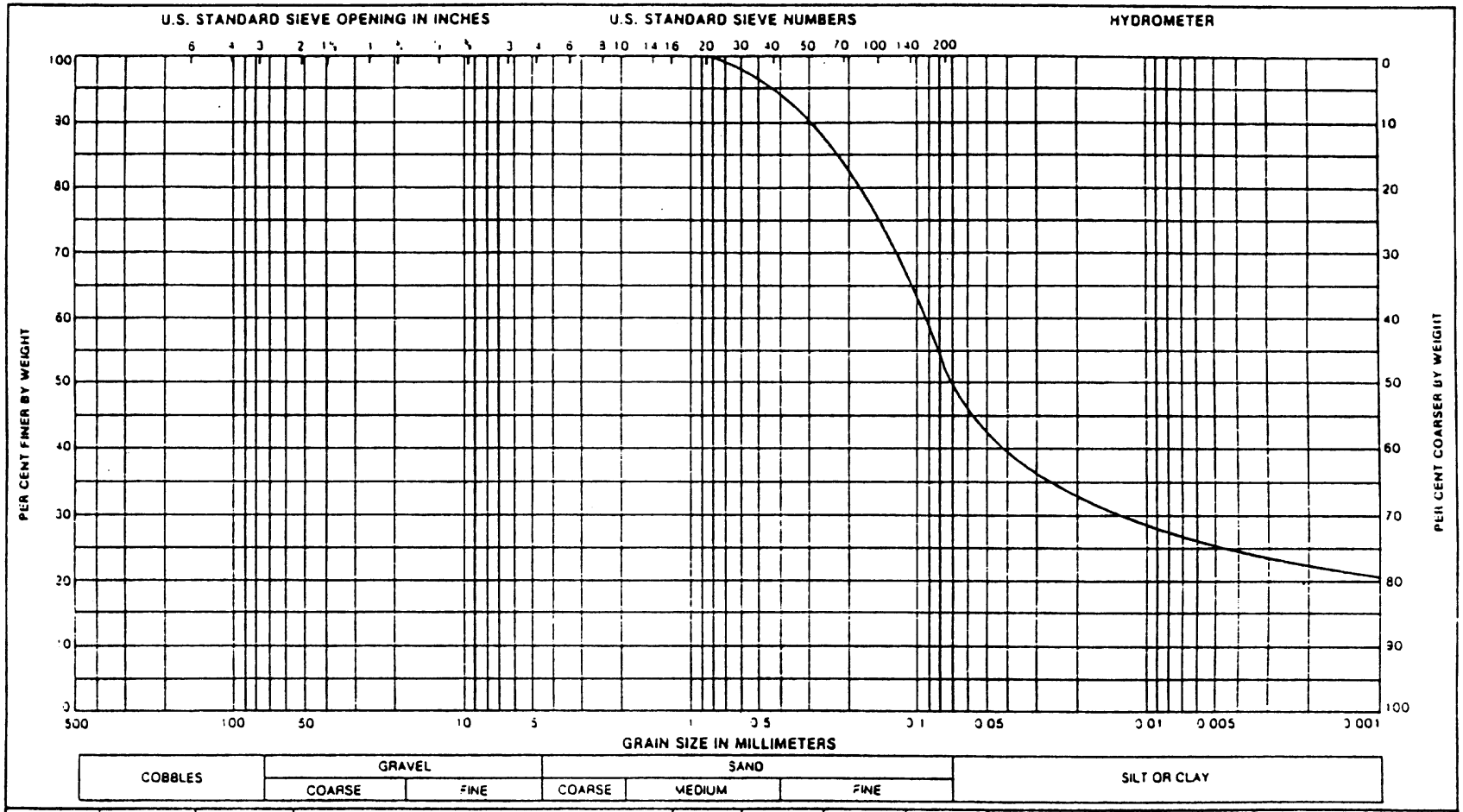
Moisture Content (ASTM D2216): 10.4%

Bulk Density (ASTM D2937): 107.0 pcf

Organic Content (ASTM D2970): 1.5%

Constant Head Permeability (ASTM D2434): 2.8×10^{-5} cm/sec

Particle Size Hydrometer (see attached curve)



Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-3	I24.12	6.0'-8.0'	Red brown clayey silty SAND (SC-SM)	12.1	20	17	3	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand - 48%					Midwest City, Oklahoma
			Silt - 27%					
			Clay - 25%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

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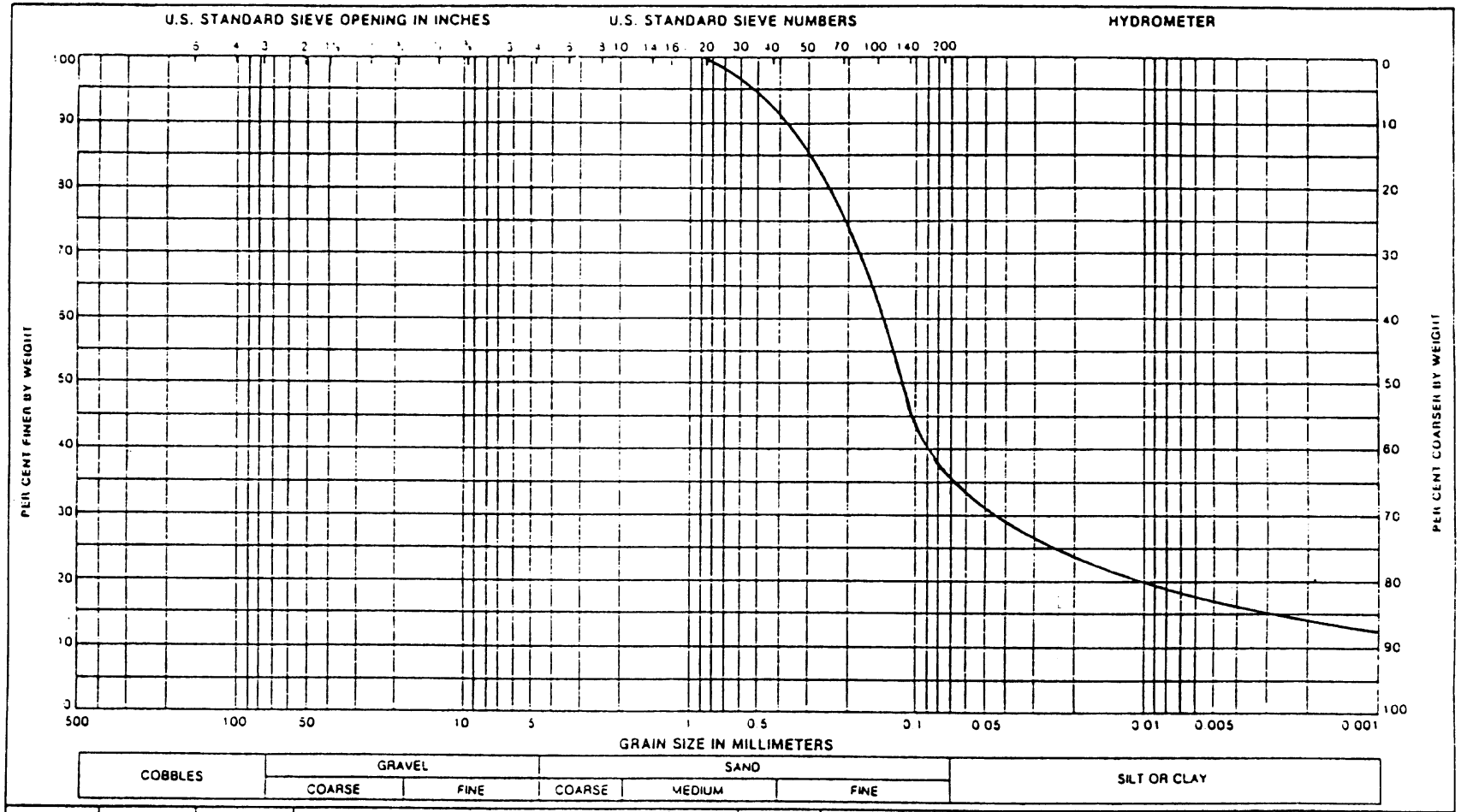

Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-4	I24.12	8.0'-10.0'	Red brown silty SAND (SM)	10.4	--	--	NP	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand - 63%					Midwest City, Oklahoma
			Silt - 20%					
			Clay - 17%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

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TEST RESULTS

Boring #: SB-1 **Sample #:** I24.4 **Depth (ft):** 8.0'-10.0'

Description: Red brown clayey sandy SILT

Classification (ASTM D2487): ML

Atterberg limits (ASTM D4318): Liquid Limit = 22
Plastic Limit = 19
Plasticity Index = 3

Moisture Content (ASTM D2216): 14.6%

Bulk Density (ASTM D2937): 113.5 pcf

Organic Content (ASTM D2970): 3.5%

Constant Head Permeability (ASTM D2434): 7.9×10^{-7} cm/sec

Particle Size Hydrometer (see attached curve)

Boring #: SB-1 **Sample #:** I24.8 **Depth (ft):** 0-2.0'

Description: Red brown clayey silty SAND

Classification (ASTM D2487): SC-SM

Atterberg limits (ASTM D4318): Liquid Limit = 19
Plastic Limit = 18
Plasticity Index = 1

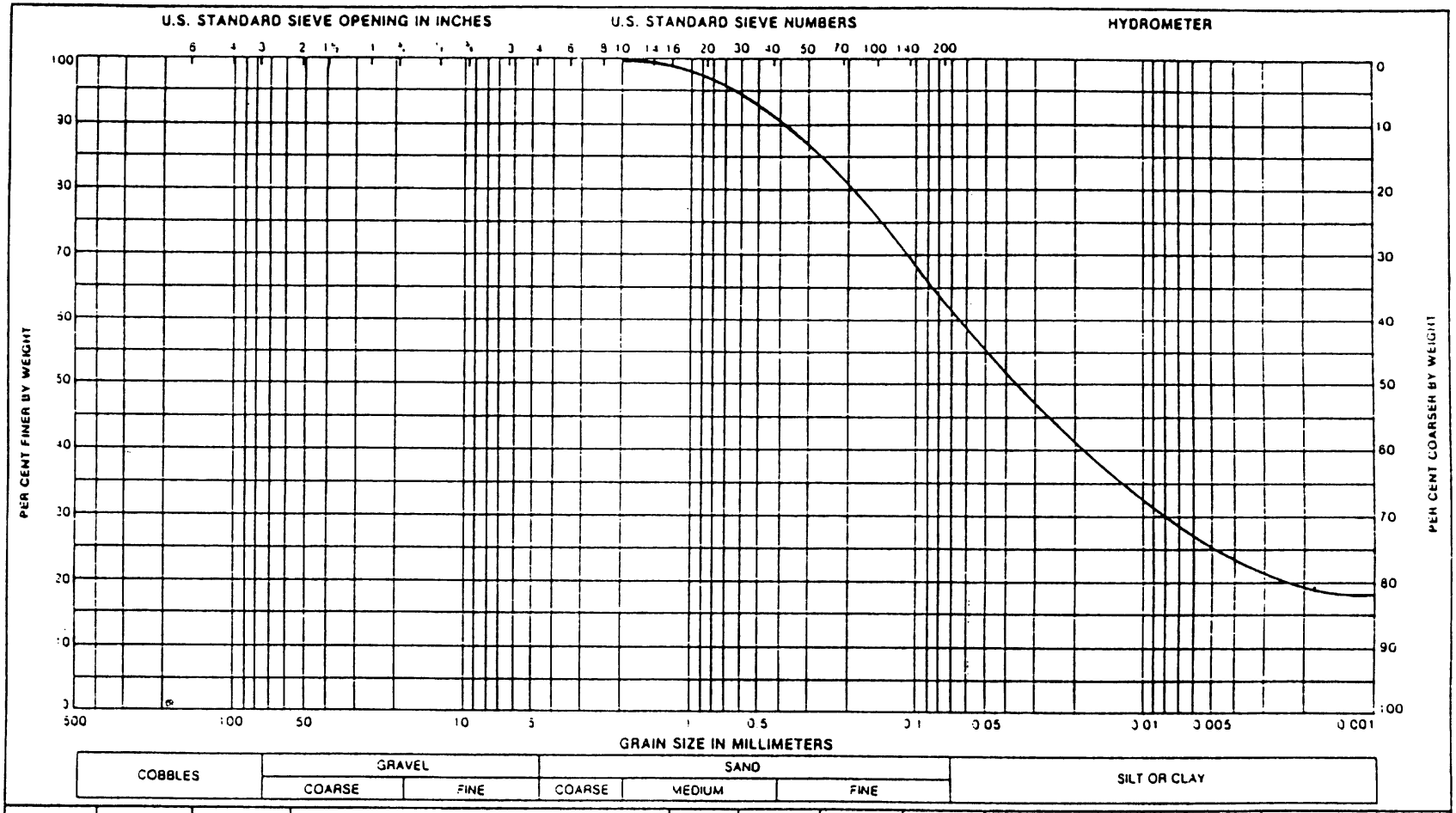
Moisture Content (ASTM D2216): 9.6%

Bulk Density (ASTM D2937): 124.1 pcf

Organic Content (ASTM D2970): 3.3%

Constant Head Permeability (ASTM D2434): 6.8×10^{-7} cm/sec

Particle Size Hydrometer (see attached curve)



Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-1	I24.4	8.0'-10.0'	Red brown clayey sandy SILT (ML)	14.6	22	19	3	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand - 38%					Midwest City, Oklahoma
			Silt - 37%					
			Clay - 25%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

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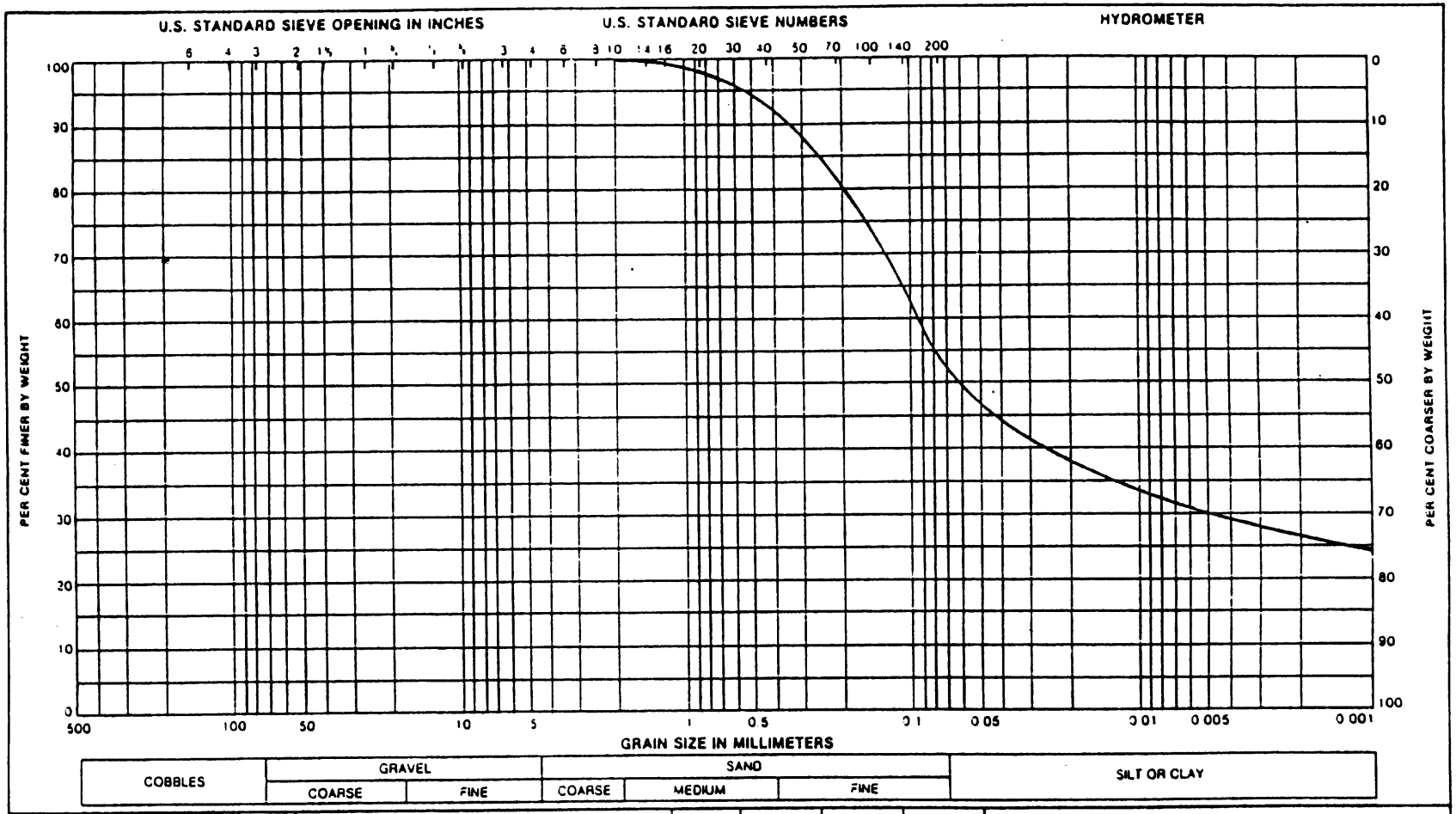

Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-1	I24.8	0-2.0'	Red brown clayey silty SAND (SC-SM)	9.6	19	18	1	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand - 47%					Midwest City, Oklahoma
			Silt - 23%					
			Clay - 30%					

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TEST RESULTS

Boring #: SB-2 **Sample #:** S32.1 **Depth (ft):** 10.0'-12.0'

Description: Red silty sandy CLAY

Classification (ASTM D2487): ML-CL

Atterberg limits (ASTM D4318): Liquid Limit = 27
Plastic Limit = 21
Plasticity Index = 6

Moisture Content (ASTM D2216): 15.8%

Bulk Density (ASTM D2937): 118.8 pcf

Organic Content (ASTM D2970): 2.8%

Constant Head Permeability (ASTM D2434): 8.5×10^{-8} cm/sec

Particle Size Hydrometer (see attached curve)

Boring #: SB-3 **Sample #:** S32.1 **Depth (ft):** 4.0'-6.0'

Description: Red shaley lean CLAY

Classification (ASTM D2487): CL

Atterberg limits (ASTM D4318): Liquid Limit = 43
Plastic Limit = 20
Plasticity Index = 23

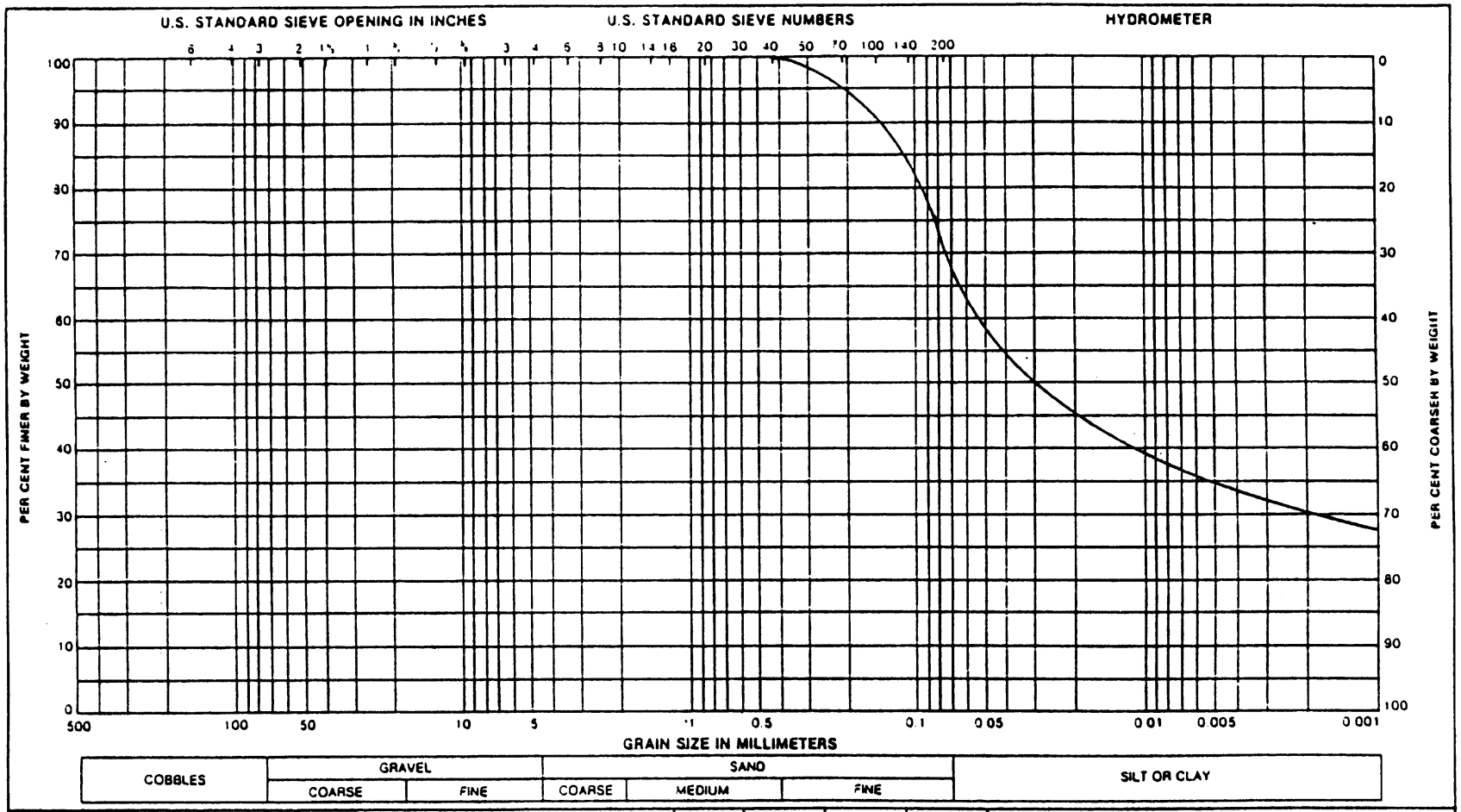
Moisture Content (ASTM D2216): 12.7%

Bulk Density (ASTM D2937): 100.9 pcf

Organic Content (ASTM D2970): 4.8%

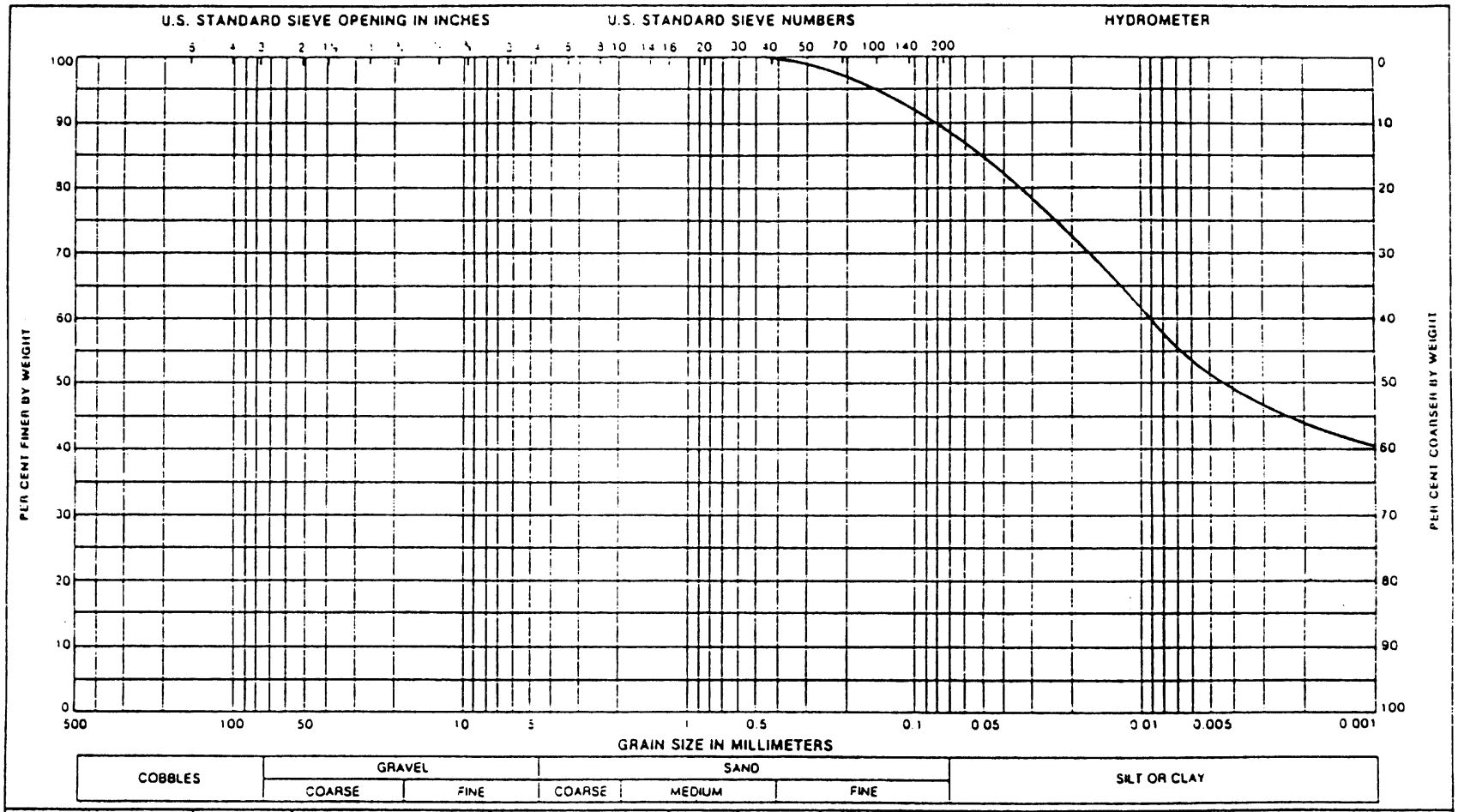
Constant Head Permeability (ASTM D2434): 2.7×10^{-8} cm/sec

Particle Size Hydrometer (see attached curve)



Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-2	S32.1	10.0'-12.0'	Red silty sandy CLAY (ML-CL)	15.8	27	21	6	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand - 30%					Midwest City, Oklahoma
			Silt - 35%					
			Clay - 35%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification File No. 547-35110-1



Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-3	S32.1	4.0'-6.0'	Red shaley lean CLAY (CL)	12.7	43	20	23	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand = 11%					Midwest City, Oklahoma
			Silt = 38%					
			Clay = 51%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

File No 547-35110-1

TEST RESULTS

Boring #: SB-2 **Sample #:** S32.2 **Depth (ft):** 0-2.0'

Description: Red silty lean CLAY with sand

Classification (ASTM D2487): CL

Atterberg limits (ASTM D4318): Liquid Limit = 27
Plastic Limit = 18
Plasticity Index = 9

Moisture Content (ASTM D2216): 10.7%

Bulk Density (ASTM D2937): 112.7 pcf

Organic Content (ASTM D2970): 4.0%

Constant Head Permeability (ASTM D2434): 7.9×10^{-8} cm/sec

Particle Size Hydrometer (see attached curve)

Boring #: SB-3 **Sample #:** S32.2 **Depth (ft):** 4.0'-6.0'

Description: Brown clayey sandy SILT

Classification (ASTM D2487): ML

Atterberg limits (ASTM D4318): Liquid Limit = 20
Plastic Limit = 15
Plasticity Index = 5

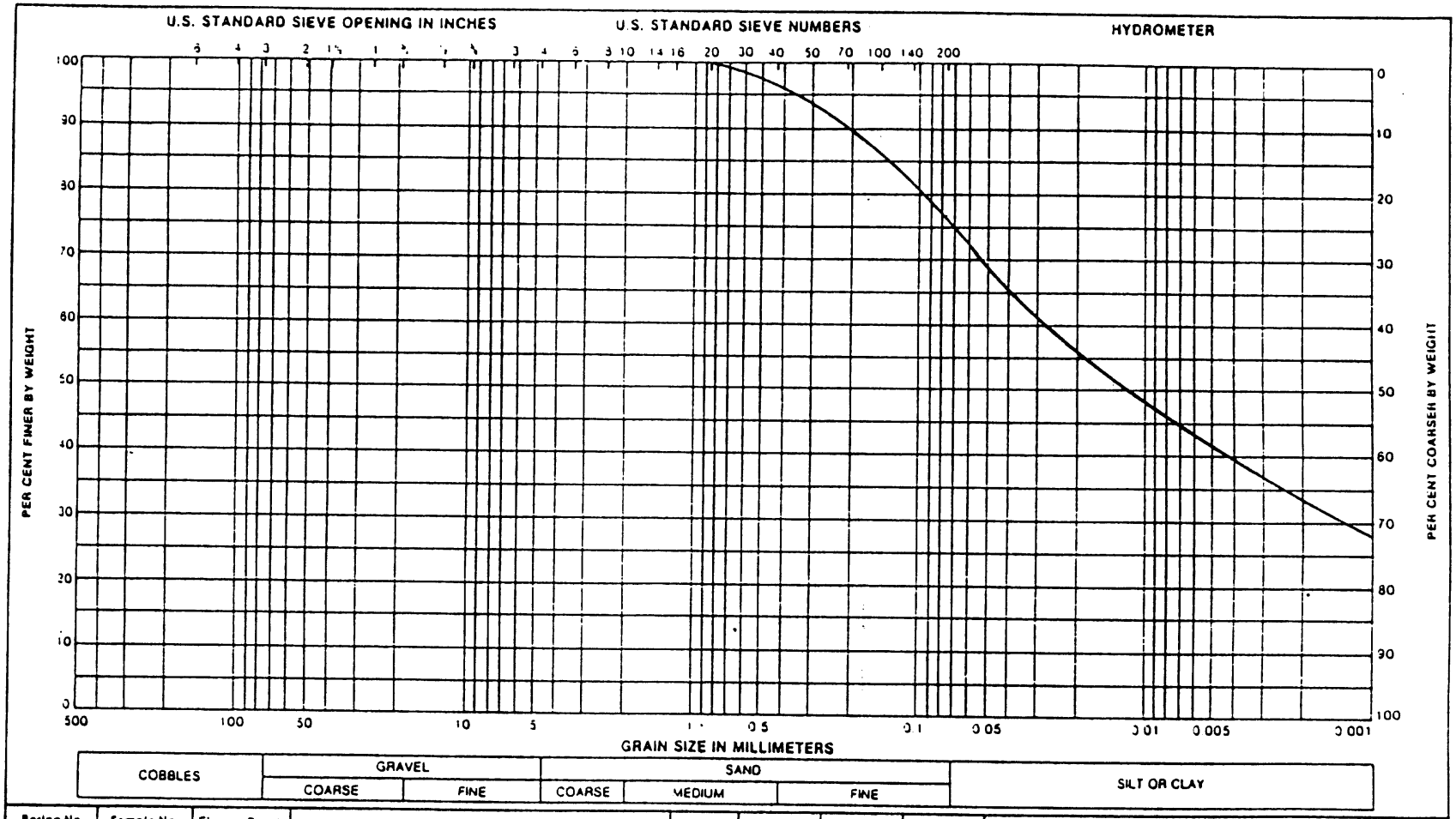
Moisture Content (ASTM D2216): 22.4%

Bulk Density (ASTM D2937): 105.6 pcf

Organic Content (ASTM D2970): 2.4%

Constant Head Permeability (ASTM D2434): 1.9×10^{-6} cm/sec

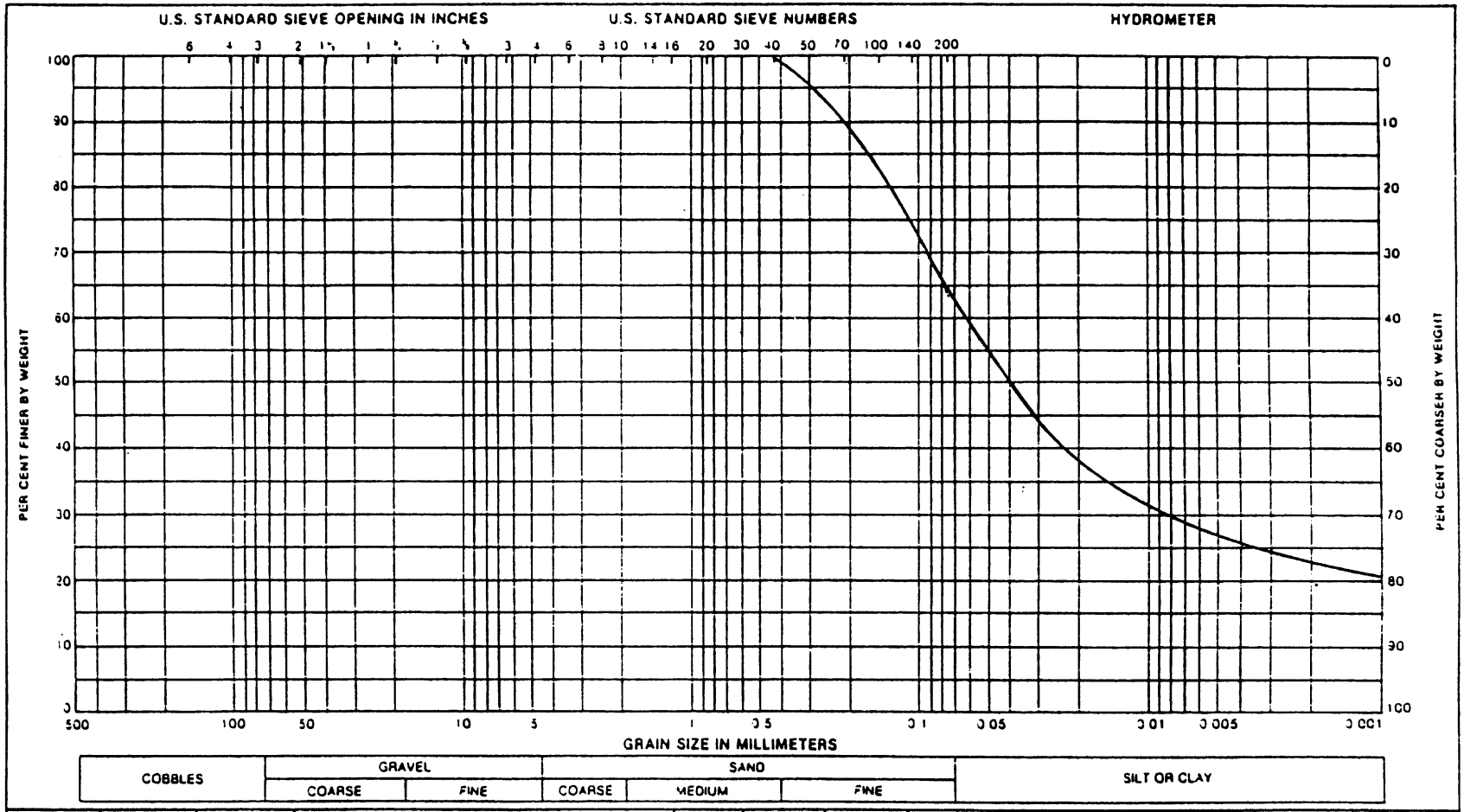
Particle Size Hydrometer (see attached curve)



Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-2	S32.2	0-2.0'	Red silty lean CLAY with sand (CL)	10.7	27	18	9	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand = 34%					Midwest City, Oklahoma
			Silt = 24%					
			Clay = 42%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

File No. 547-35110-1



Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-3	S32.2	4.0'-6.0'	Brown clayey sandy SILT (ML)	22.4	20	15	5	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand = 35%					Midwest City, Oklahoma
			Silt = 38%					
			Clay = 27%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

File No 547-35110-1

TEST RESULTS

Boring #: SB-2 **Sample #:** S32.4 **Depth (ft):** 4.0'-6.0'

Description: Red silty sandy CLAY

Classification (ASTM D2487): ML-CL

Atterberg limits (ASTM D4318): Liquid Limit = --
Plastic Limit = --
Plasticity Index = NP

Moisture Content (ASTM D2216): 8.2%

Bulk Density (ASTM D2937): 114.8 pcf

Organic Content (ASTM D2970): 4.0%

Constant Head Permeability (ASTM D2434): 2.1×10^{-5} cm/sec

Particle Size Hydrometer (see attached curve)

Boring #: SB-4 **Sample #:** S32.4 **Depth (ft):** 6.0'-8.0'

Description: Red silty SAND

Classification (ASTM D2487): SM

Atterberg limits (ASTM D4318): Liquid Limit = --
Plastic Limit = --
Plasticity Index = NP

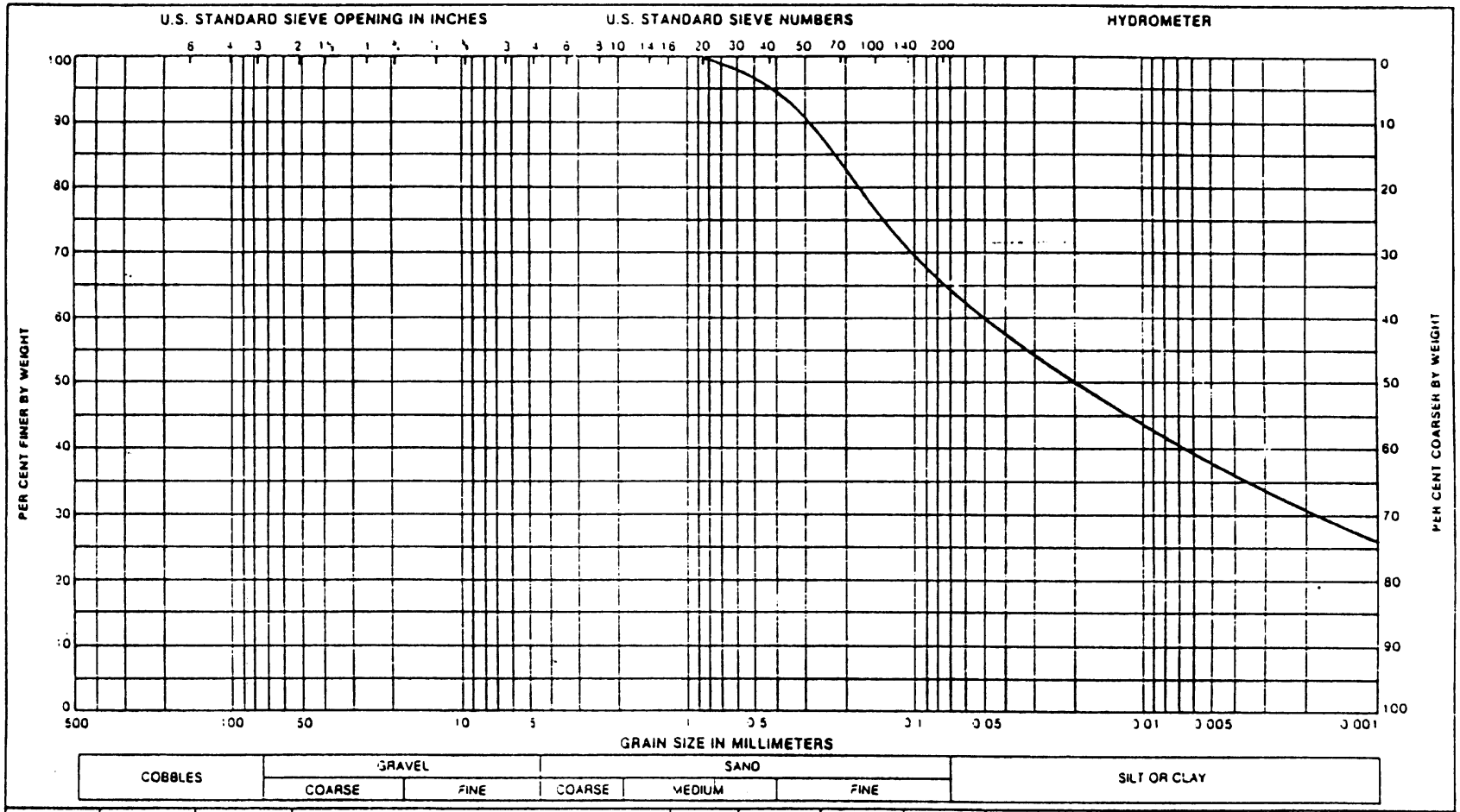
Moisture Content (ASTM D2216): 6.2%

Bulk Density (ASTM D2937): 113.3 pcf

Organic Content (ASTM D2970): 1.2%

Constant Head Permeability (ASTM D2434): 2.0×10^{-6} cm/sec

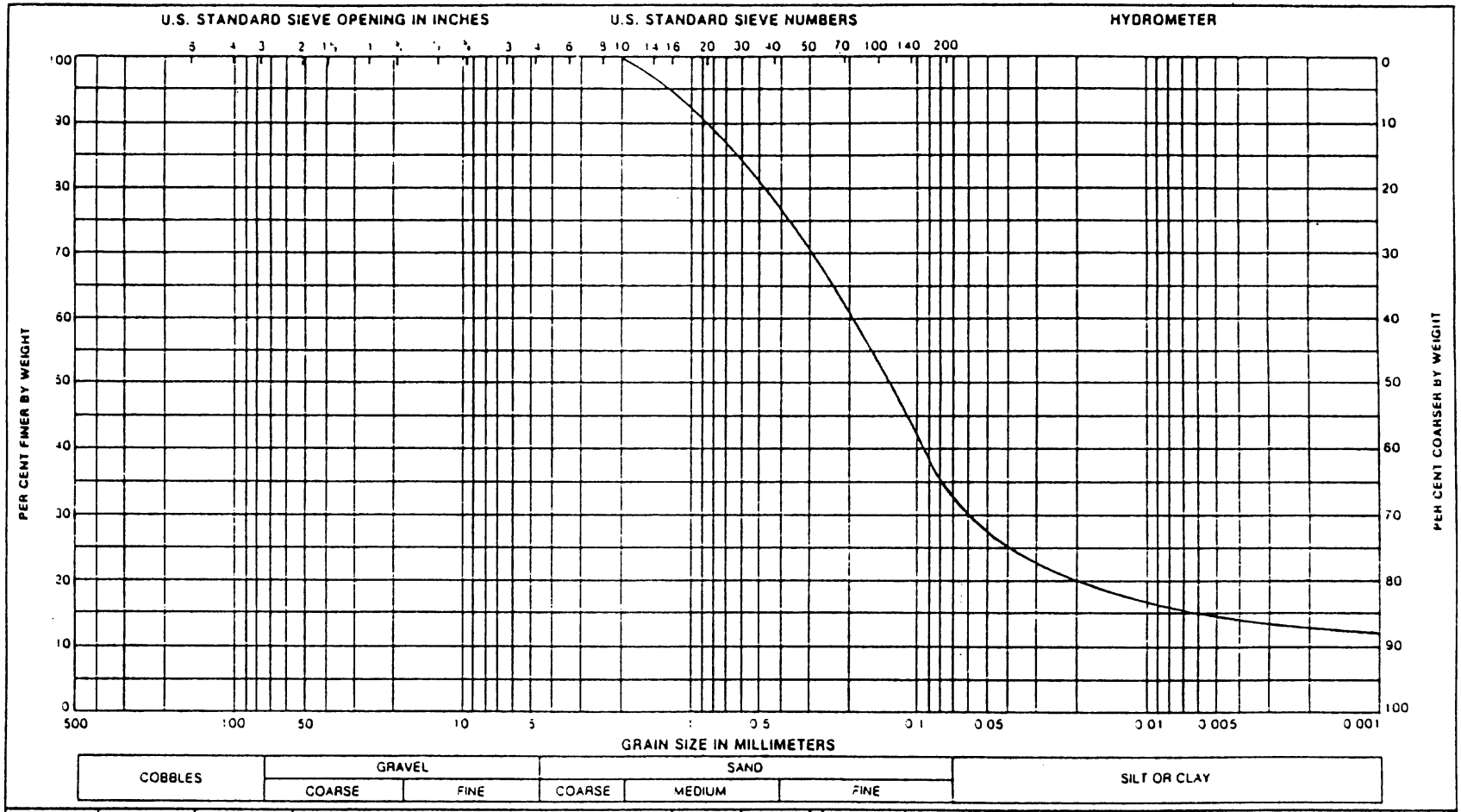
Particle Size Hydrometer (see attached curve)



Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-2	S32.4	4.0'-6.0'	Red silty sandy CLAY (ML-CL)	8.2	--	--	NP	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand = 34%					Midwest City, Oklahoma
			Silt = 28%					
			Clay = 38%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

File No 547-35110-1



Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-4	S32.4	6.0'-8.0'	Red silty SAND (SM)	6.2	--	--	NP	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand = 66%					Midwest City, Oklahoma
			Silt = 20%					
			Clay = 14%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

File No 547-35110-1

TEST RESULTS

Boring #: SB-1 **Sample #:** S32.8 **Depth (ft):** 0.5'-2.5'

Description: Red clayey silty SAND

Classification (ASTM D2487): SC-SM

Atterberg limits (ASTM D4318): Liquid Limit = 19
Plastic Limit = 17
Plasticity Index = 2

Moisture Content (ASTM D2216): 12.9%

Bulk Density (ASTM D2937): 123.7 pcf

Organic Content (ASTM D2970): 2.2%

Constant Head Permeability (ASTM D2434): 5.7×10^{-6} cm/sec

Particle Size Hydrometer (see attached curve)

Boring #: SB-2 **Sample #:** S32.8 **Depth (ft):** 2.0'-4.0'

Description: Red clayey silty SAND

Classification (ASTM D2487): SC-SM

Atterberg limits (ASTM D4318): Liquid Limit = 19
Plastic Limit = --
Plasticity Index = NP

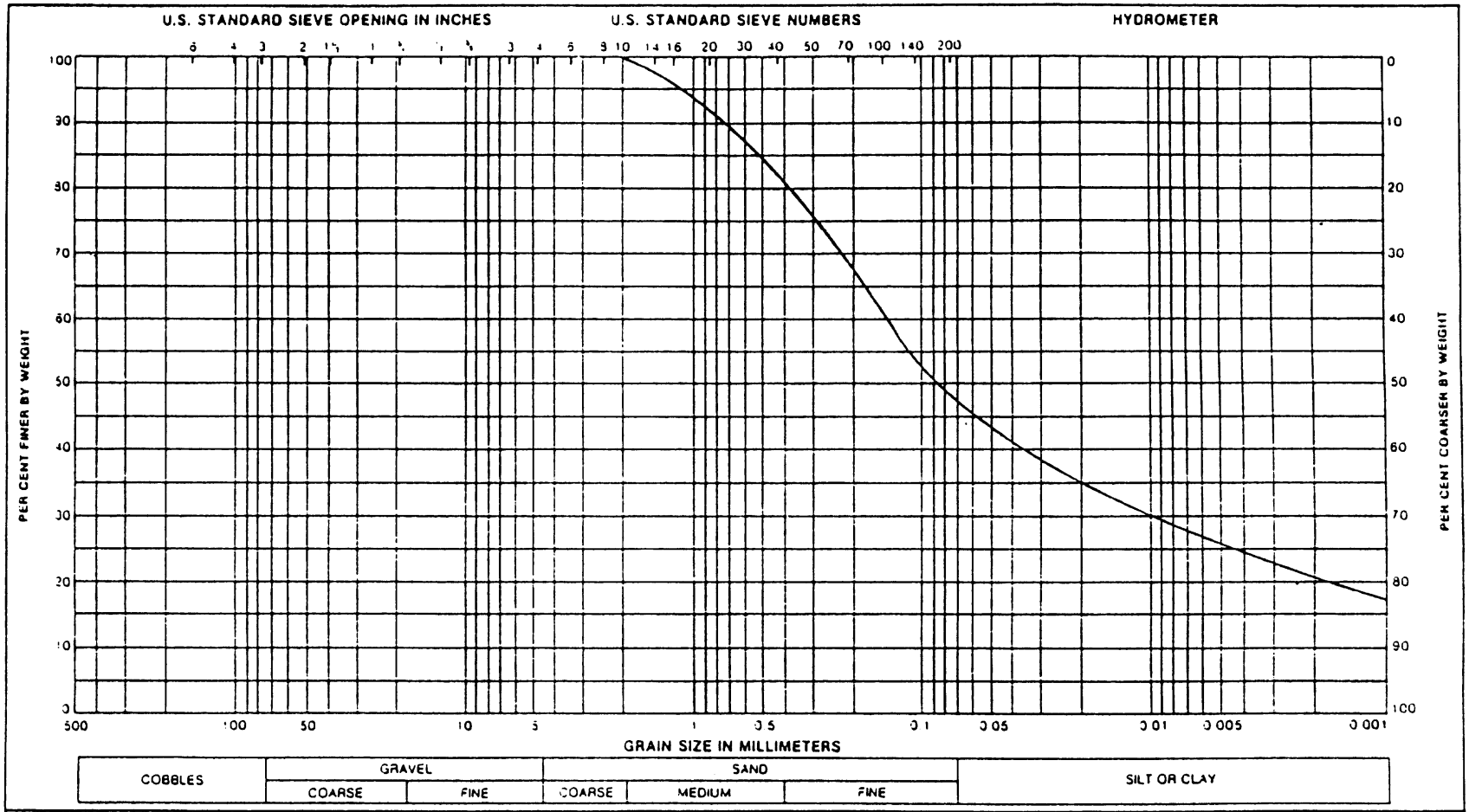
Moisture Content (ASTM D2216): 13.2%

Bulk Density (ASTM D2937): 112.3 pcf

Organic Content (ASTM D2970): 2.0%

Constant Head Permeability (ASTM D2434): 5.0×10^{-6} cm/sec

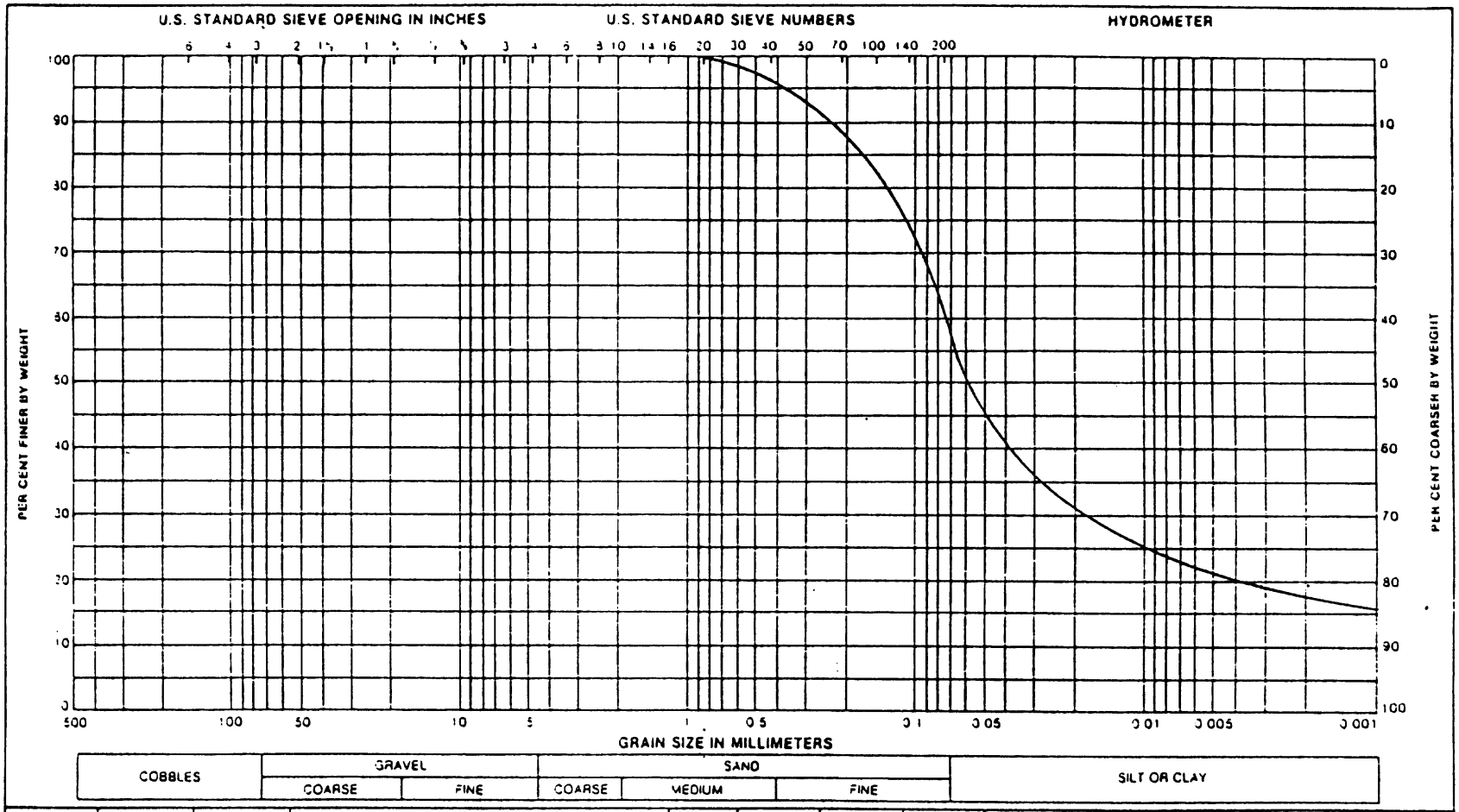
Particle Size Hydrometer (see attached curve)



Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-1	S32.8	0.5'-2.5'	Red clayey silty SAND (SC-SM)	12.9	19	17	2	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand = 53%					Midwest City, Oklahoma
			Silt = 21%					
			Clay = 26%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

File No 547-35110-1



Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-2	S32.8	2.0'-4.0'	Red clayey silty SAND (SC-SM)	13.2	19	--	NP	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand = 40%					Midwest City, Oklahoma
			Silt = 39%					
			Clay = 21%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

File No 547-35110-1

TEST RESULTS

Boring #: SB-3 **Sample #:** S32.8 **Depth (ft):** 4.0'-6.0'

Description: Red clayey silty SAND

Classification (ASTM D2487): SC-SM

Atterberg limits (ASTM D4318): Liquid Limit = --
Plastic Limit = --
Plasticity Index = NP

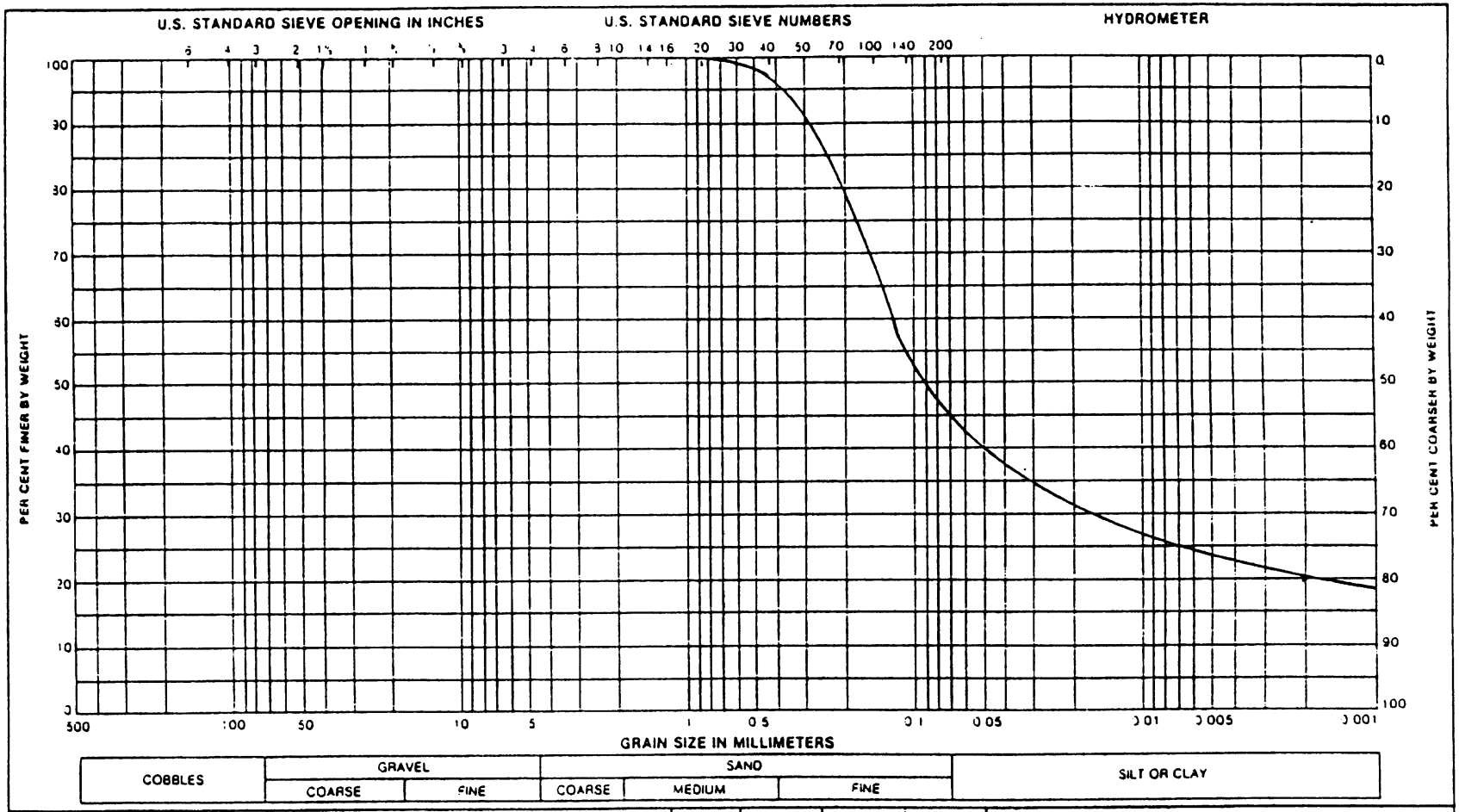
Moisture Content (ASTM D2216): 10.9%

Bulk Density (ASTM D2937): 111.3 pcf

Organic Content (ASTM D2970): 2.0%

Constant Head Permeability (ASTM D2434): 1.0×10^{-5} cm/sec

Particle Size Hydrometer (see attached curve)



Boring No.	Sample No.	Elev. or Depth	Classification	Nat w %	LL	PL	PI	Project
SB-3	S32.8	4.0'-6.0'	Red clayey silty SAND (SC-SM)	10.9	--	--	NP	Soil Analysis-Project #F34650-93-D-0106
								Tinker AFB ITWP RCRA Facility Investigation
			Sand = 54%					Midwest City, Oklahoma
			Silt = 22%					
			Clay = 24%					

REPORT OF SOIL ANALYSIS by Unified Soil Classification

File No. 547-35110-1

Appendix C

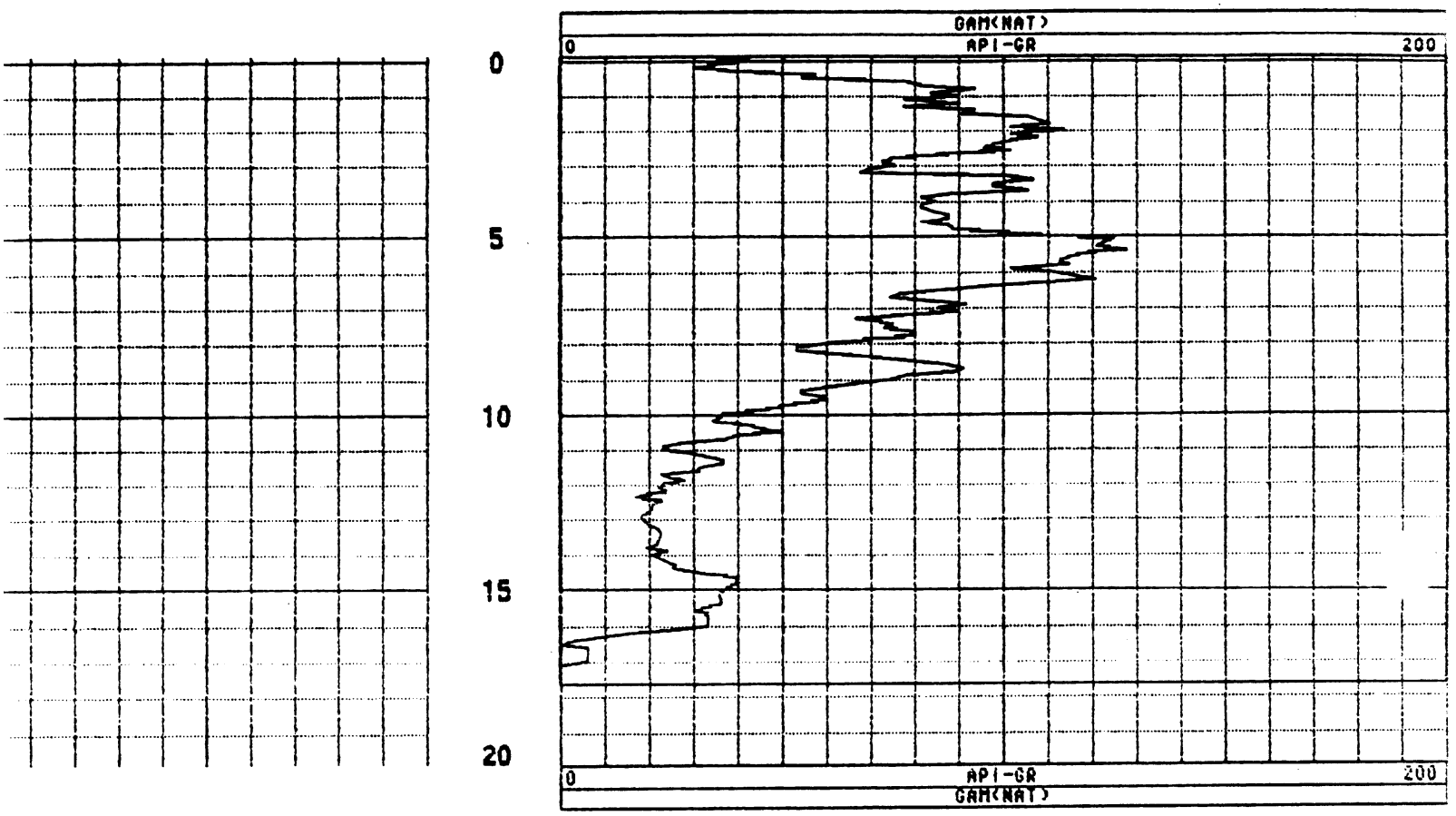
Gamma-Ray Logs

Century GEOPHYSICAL CORP.

S32.8SB5

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: S32.8SB5				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 11/04/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 18	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 17.70	LOG MEASURED FROM	: G.L.	DF	:
LOG TOP	: -1.50	DRL MEASURED FROM	: G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT YASEK		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9010A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 1
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: TINKER 1
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH	: 500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

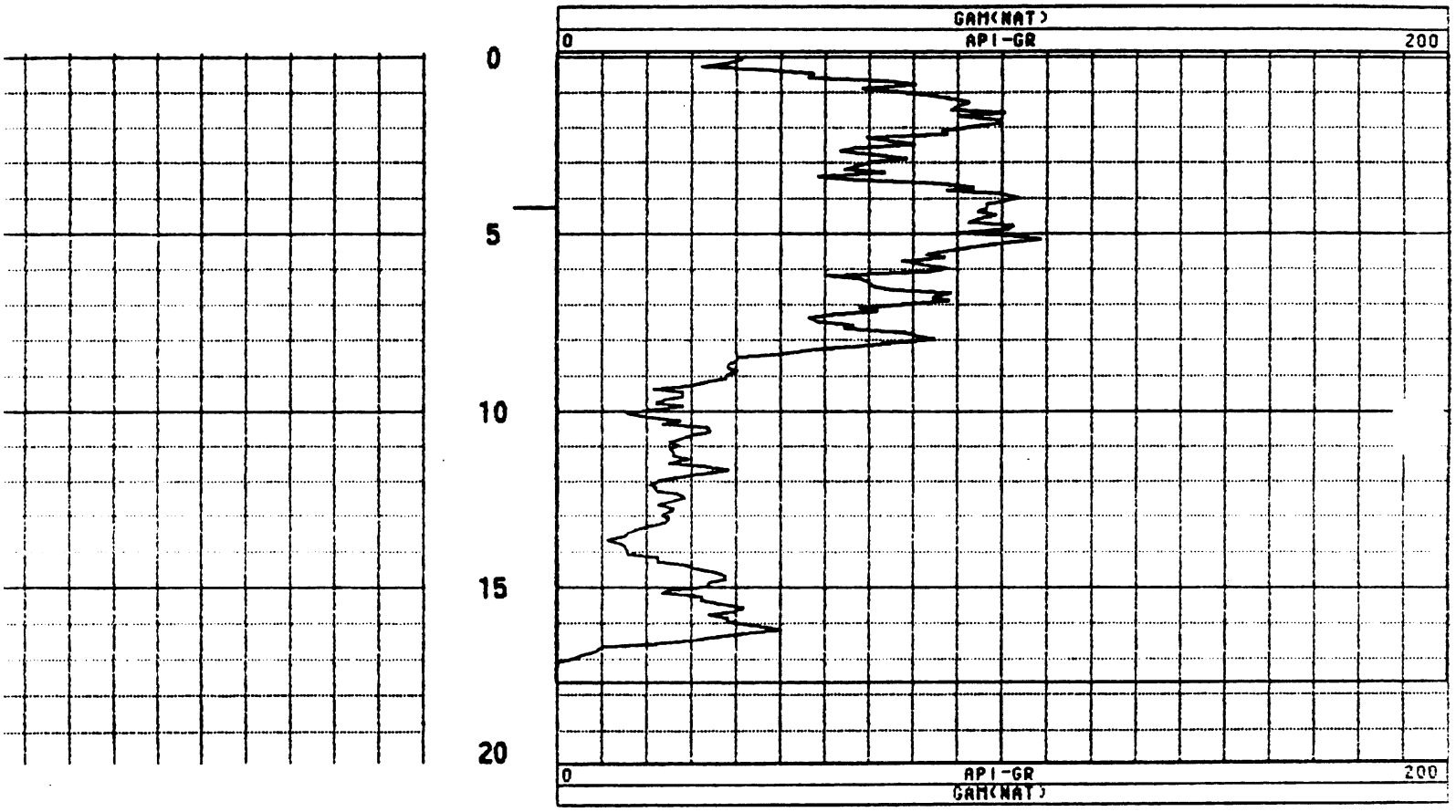

GAM(NAT)
0
API-GR
200
0
5
10
15
20
0
API-GR
200
GAM(NAT)

Century GEOPHYSICAL CORP.

S32.8SB4

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: S32.8SB4				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 11/04/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 18	ELEV. PERM. DATUM	:	KB	.
LOG BOTTOM	: 17.70	LOG MEASURED FROM	: G.L.	DF	:
LOG TOP	: -0.90	DRL MEASURED FROM	: G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT YASEK		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 90100
MATRIX DENSITY	:	RM TEMPERATURE	.	LOG	. 0
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: TINKER 1
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH	: 5000000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


GAM(NAT)
0
API-GR
200
0
5
10
15
20
0
API-GR
200
GAM(NAT)

CGC

Century GEOPHYSICAL CORP.

S32.3SB1

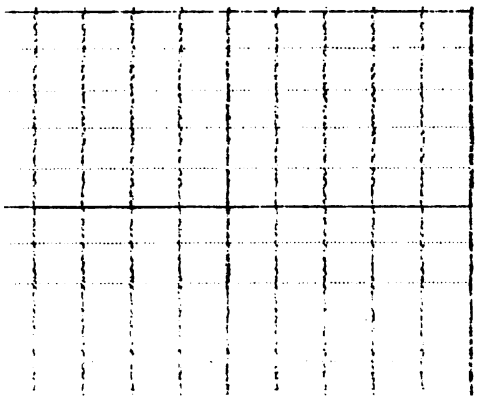
COMPANY	: ENGINEERING SCIENCE	OTHER SERVICES:	
WELL	: S32.3SB1		
LOCATION/FIELD	: TINKER AFB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION	:	TOWNSHIP	RANGE

DATE	: 11/05/93	PERMANENT DATUM	:	ELEVATIONS
DEPTH DRILLER	10	[illegible]		[illegible]
LOG DATUM	: 2.90	LOG MEASURED FROM	: [illegible]	[illegible]
LOG TOP	: 2.90	DRL MEASURED FROM	: [illegible]	[illegible]

CASING DRILLER	:	LOGGING UNIT	: [illegible]
CASING TYPE	:	FIELD OFFICE	: LAS VEGAS
CASING THICKNESS	:	RECORDED BY	: ROBERT YASER

BIT SIZE	: 6	BOREHOLE FLUID	:	LIFE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: [illegible]
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 0
FLUID DENSITY	:	MATRIX DELTA T	:	[illegible]	[illegible]
NEUTRON MATRIX	:	FLUID DELTA T	:	[illegible]	[illegible]
REMARKS	:				

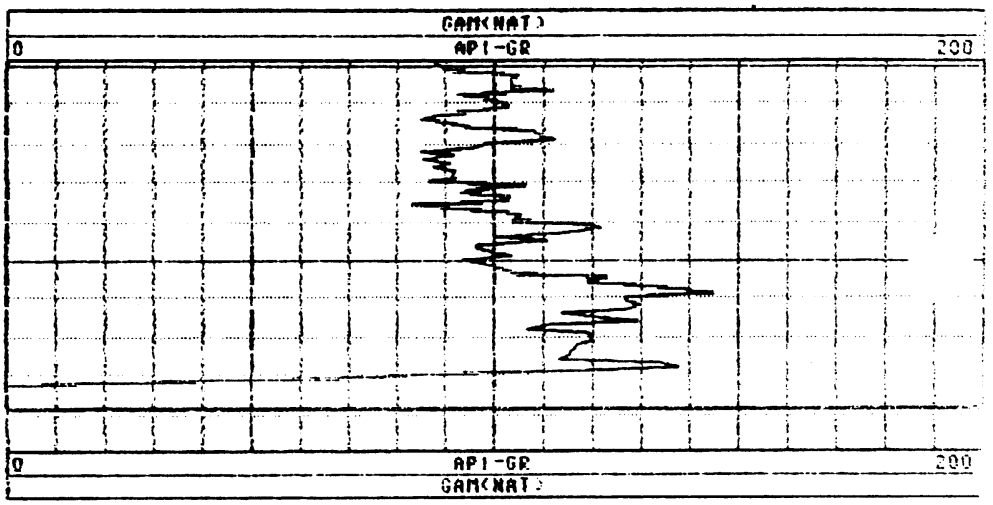
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



0

5

10



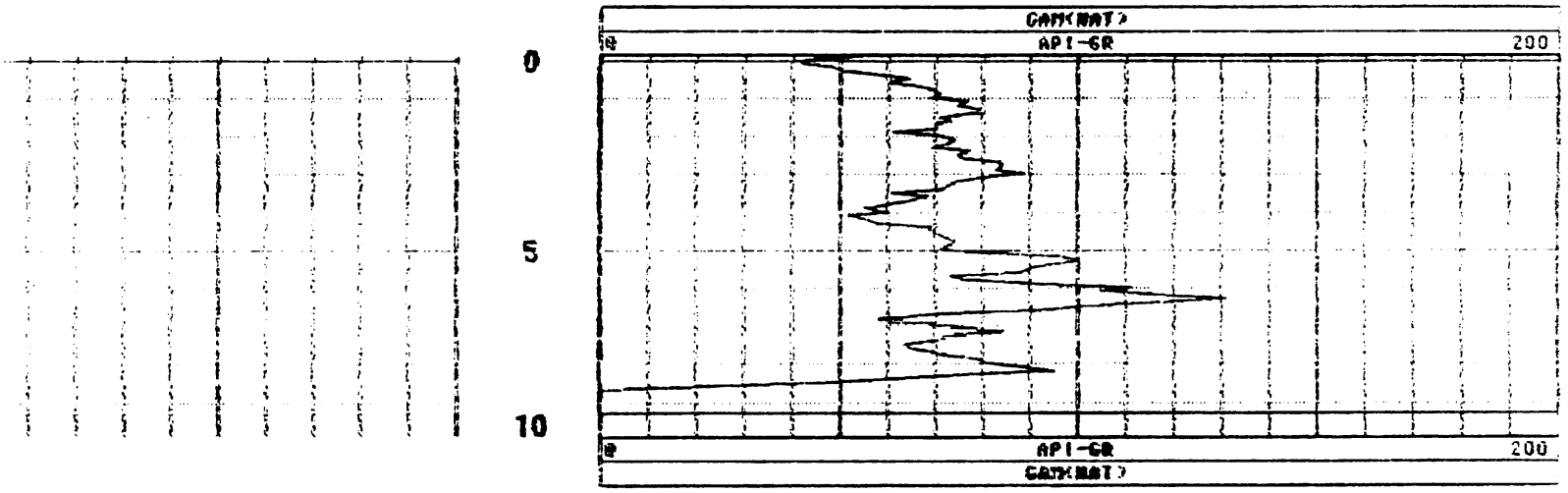
CGC

Century GEOPHYSICAL CORP.

S32.4SB6

COMPANY	: ENGINEERING SCIENCE	OTHER SERVICES:	
WELL	: S32.4SB6		
LOCATION/FIELD	: TINKER OLD		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION	:	TOWNSHIP :	RANGE :
DATE	: 11/05/93	PERMANENT DATUM :	ELEVATIONS
DEPTH DRILLER	85	ELEV. PERM. DATUM	[illegible]
LOG MEASURED	[illegible]	LOG MEASURED FROM	[illegible]
LOG TOP	[illegible]	DRL MEASURED FROM	[illegible]
CASING DRILLER	:	LOGGING UNIT	: [illegible]
CASING TYPE	:	FIELD OFFICE	: LAS VEGAS
CASING THICKNESS	: -	RECORDED BY	: ROBERT VASER
BIT SIZE	: 8	BOREHOLE FLUID	FILE : ORIGINAL
MAGNETIC DECL.	:	KM	TYPE : [illegible]
MATRIX DENSITY	:	KM TEMPERATURE	LOG : [illegible]
FLUID DENSITY		MATRIX DELTA T	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]			

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND [illegible]


CAM(MAT)
0
API-GR
200
5
10
0
API-GR
200
CAM(MAT)

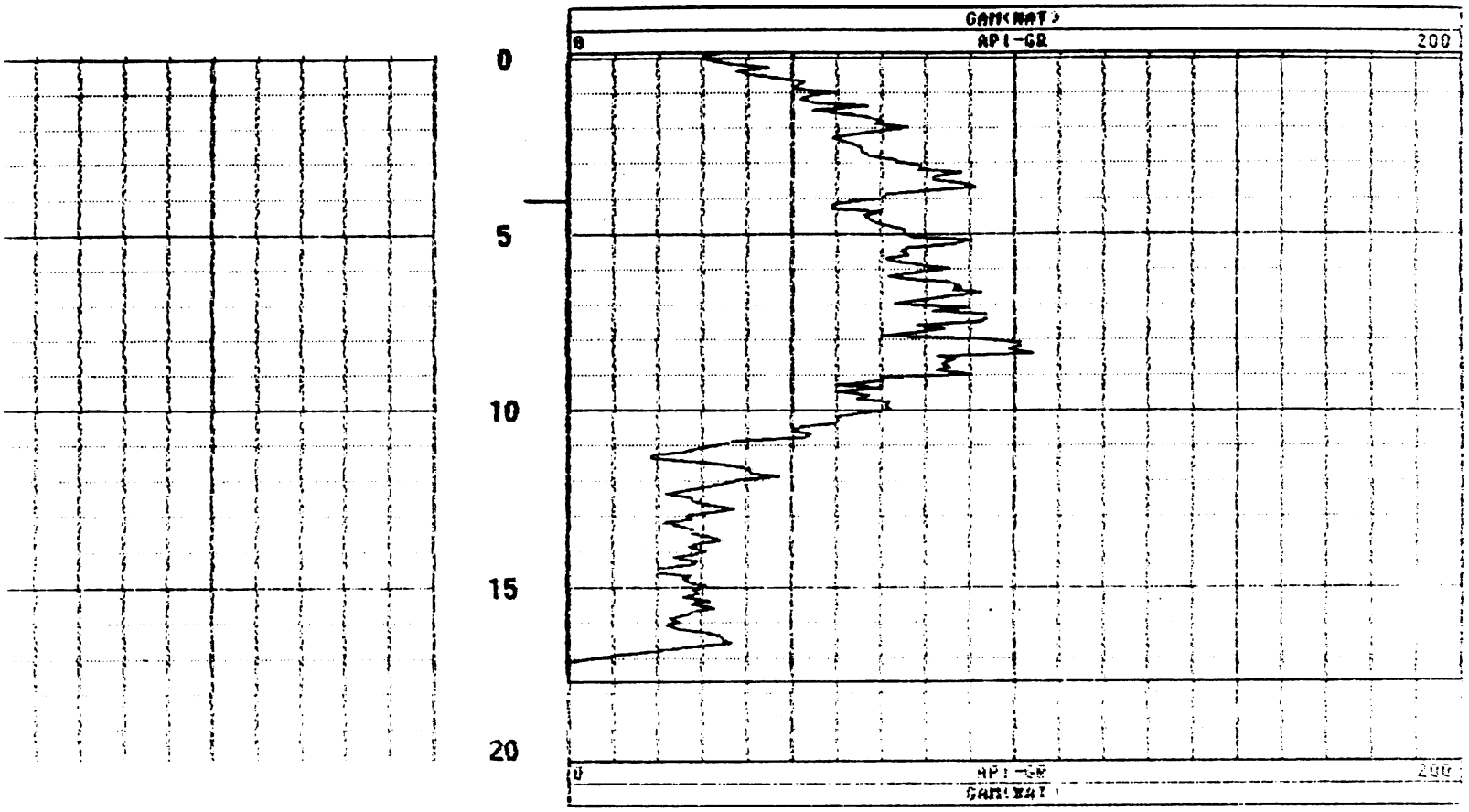
CGC

Century GEOPHYSICAL CORP.

S32.8SB6

COMPANY	: ENGINEERING SCIENCE	OTHER SERVICES:	
WELL	: S32.8SB6		
LOCATION/FIELD	: TINKER AFB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION	:	TOWNSHIP :	RANGE :
DATE	: [illegible]	PERMANENT DATUM :	ELEVATIONS
DEPTH DRILLER	: 18	ELEV. PERM. DATUM:	KB :
LOG BOTTOM	: [illegible]	LOG MEASURED FROM: G.L.	DF
LOG TOP	: [illegible]	DRL MEASURED FROM: G.L.	GL
CASING DRILLER	:	LOGGING UNIT : [illegible]	
CASING TYPE	:	FIELD OFFICE : LAS VEGAS	
CASING THICKNESS:		RECORDED BY : ROBERT VASEK	
BIT SIZE	: 8	BOREHOLE FLUID :	FILE : ORIGINAL
MAGNETIC DECL.	:	RM :	TYPE : [illegible]
MATRIX DENSITY	:	RM TEMPERATURE	LOG : [illegible]
FLUID DENSITY	:	MATRIX DELTA T	PLOT : TINKER [illegible]
NEUTRON MATRIX	:	FLUID DELTA T	[illegible]
REMARKS	:		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


GAM<NAT>
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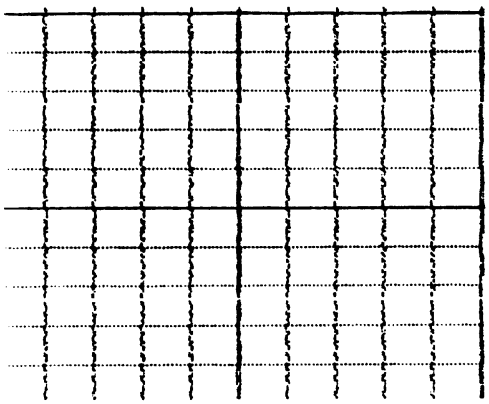
API-GR
200
0
5
10
15
20
0
API-GR
200
GAM<NAT>

Century GEOPHYSICAL CORP.

I24.2SB4

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: I24.2SB4				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 11/05/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 10	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 9.60	LOG MEASURED FROM:	G.L.	DF	:
LOG TOP	: -0.80	DRL MEASURED FROM:	G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT YASEK		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9010A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 1
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: TINKER 1
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH	: 500000
REMARKS	:				

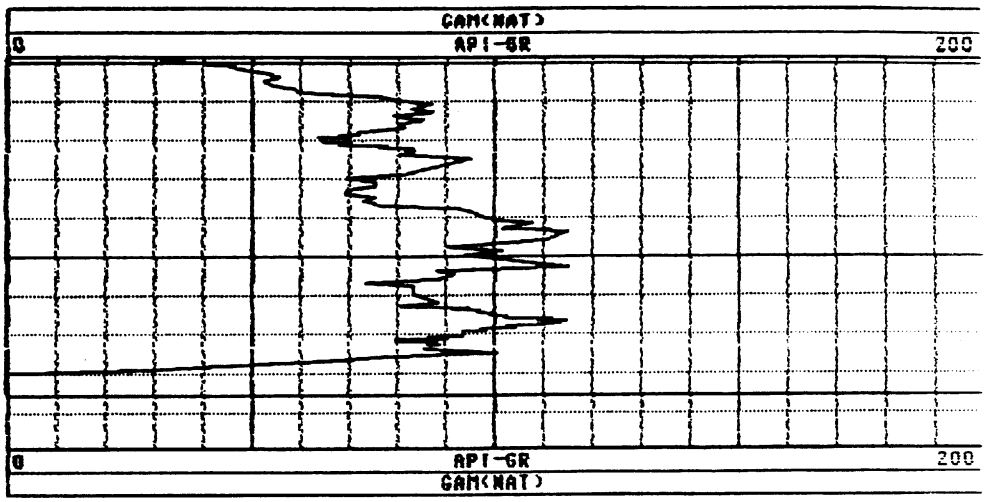
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



0

5

10



Century GEOPHYSICAL CORP.

S32.8SB16

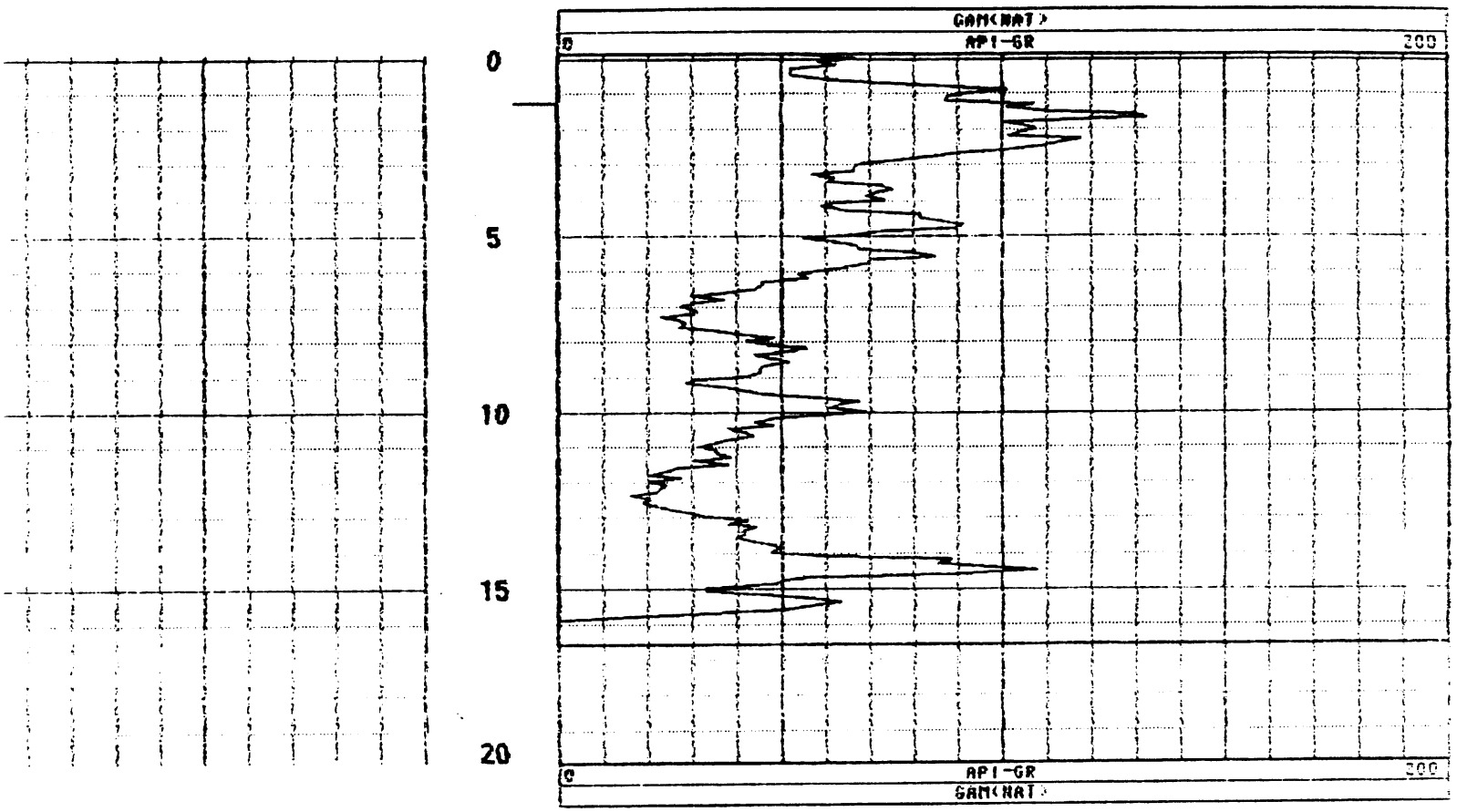
COMPANY	: ENGINEERING SCIENCE		OTHER SERVICES:
WELL	: S32.8SB16		
LOCATION/FIELD	: TONOPAH [illegible]		
COUNTY	: [illegible]		
STATE	: OKLAHOMA		
SECTION		TOWNSHIP	RANGE

DATE	: [illegible]	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 18	ELEV. PERM. DATUM		KB	
LOG BOTTOM	: 15.60	LOG MEASURED FROM:	G.L.	DF	:
LOG TOP	: -0.90	DRL MEASURED FROM:	G.L.	GL	:

CASING DRILLER	:	LOGGING UNIT	: 0302
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS
CASING THICKNESS	: -	RECORDED BY	: ROBERT VASER

BIT SIZE	: 6	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: [illegible]
MATRIX DENSITY	:	RM TEMPERATURE		[illegible]	: [illegible]
FLUID DENSITY	:	MATRIX VALUE	:	[illegible]	: [illegible]
NEUTRON MATRIX	:	FLUID VALUE	:	[illegible]	: [illegible]
REMARKS					

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


GAM(NAT)
0
API-GR
200
0
5
10
15
20
0
API-GR
200
GAM(NAT)

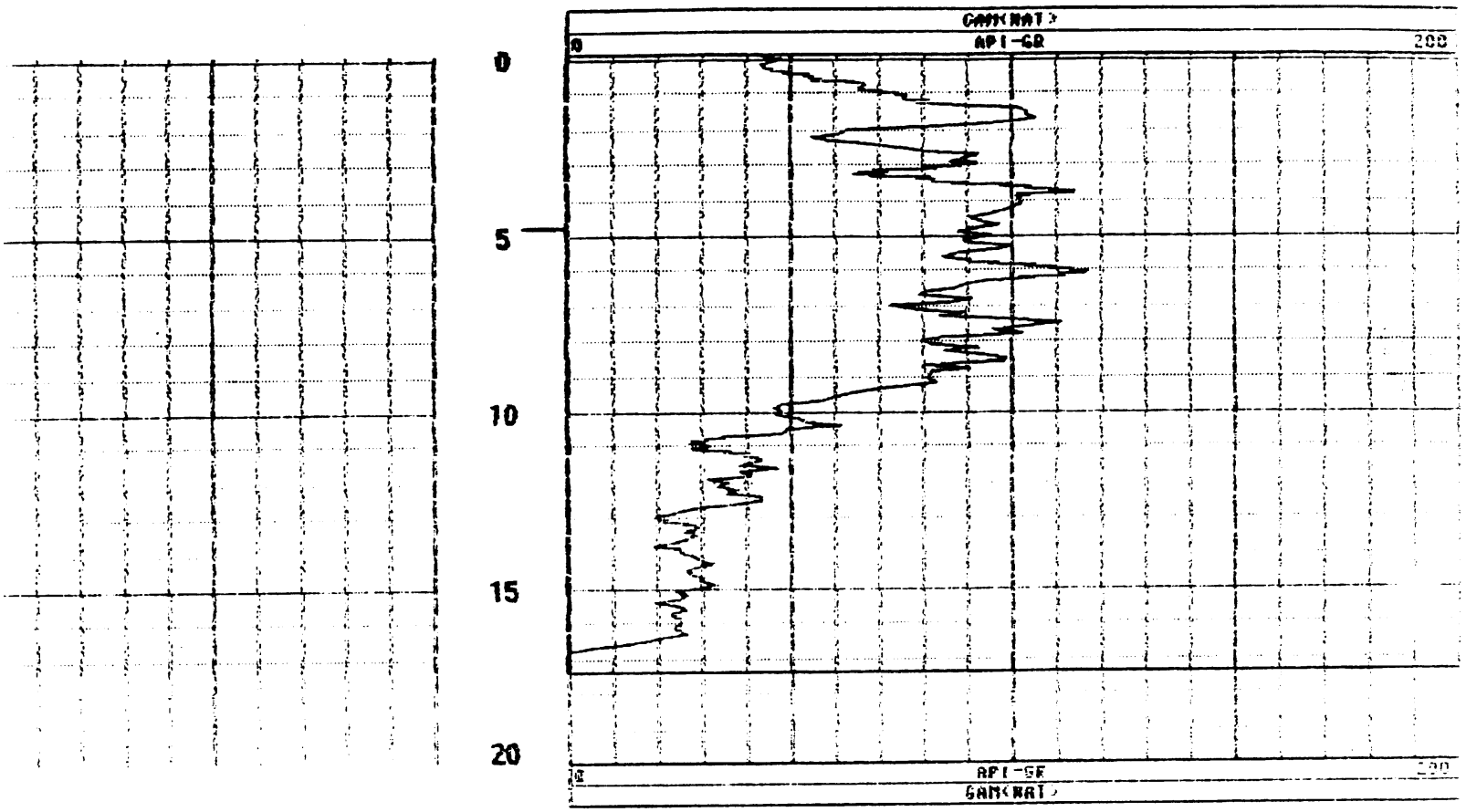
CGC

Century GEOPHYSICAL CORP.

S32.8SB7

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: S32.8SB7				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 11/06/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 18	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 17.40	LOG MEASURED FROM	: G.L.	DF	:
LOG TOP	: -1.00	DRL MEASURED FROM	: G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT VASEK		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9010A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 2
FLUID DENSITY	:	MATRIX DELTA T	:	[illegible]	: TINKER
NEUTRON MATRIX	:	FLUID DELTA T	:	[illegible]	: [illegible]
REMARKS					

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


GAM(NAT)
API-GR
0
200
0
5
10
15
20
API-GR
GAM(NAT)

Century GEOPHYSICAL CORP.

532.8SB8

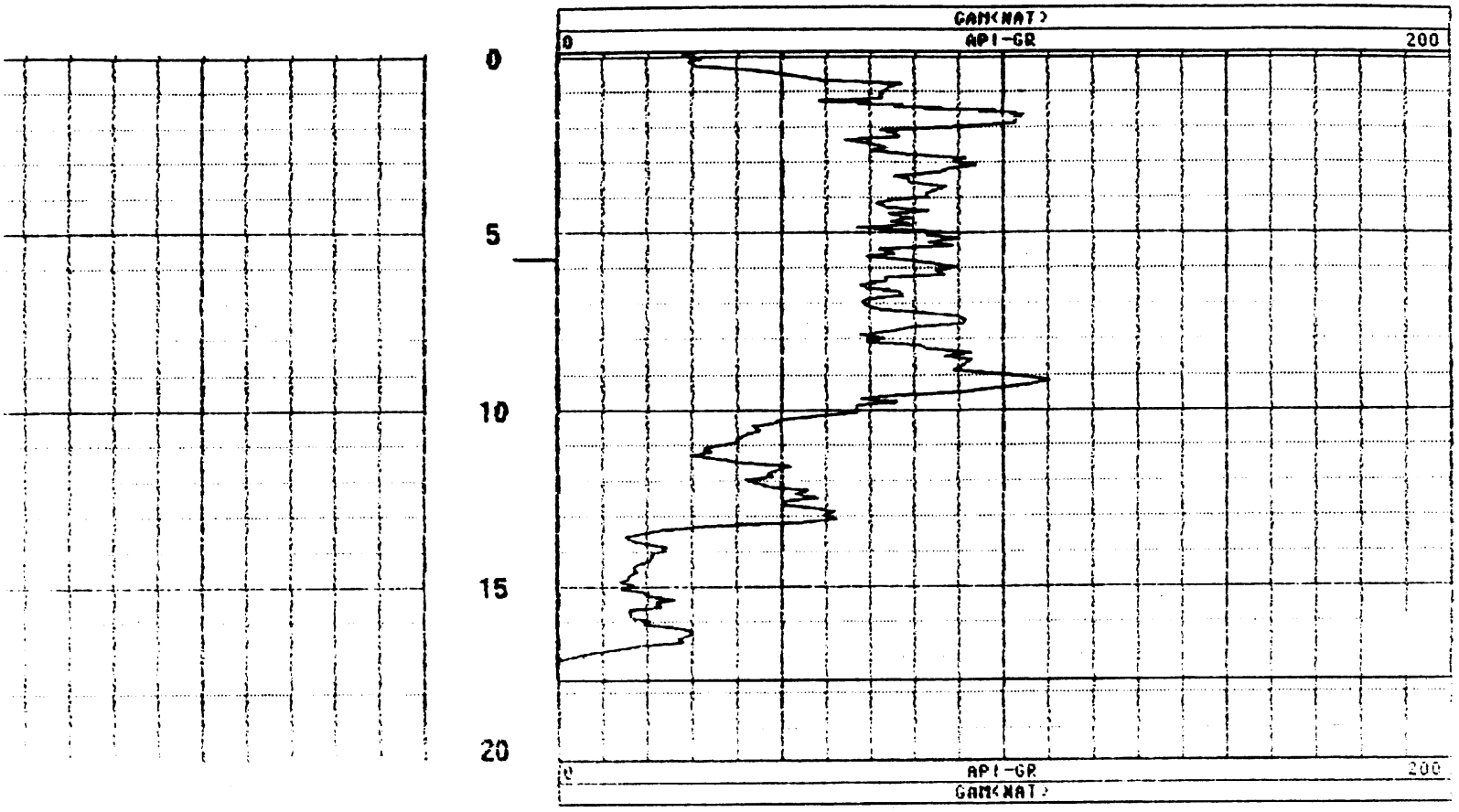
COMPANY	: ENGINEERING SCIENCE	OTHER SERVICES:	
WELL	: 532.8SB8		
LOCATION/FIELD	: TINKER DEB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION	:	TOWNSHIP :	RANGE :

DATE	: 11/06/93	PERMANENT DATUM :		ELEVATIONS
DEPTH DRILLER	: 18	ELEV. PERM. DATUM:		KB :
LOG BOTTOM	: 17.76	LOG MEASURED FROM: G.L.		DF :
LOG TOP	: 0.00	DRL MEASURED FROM: G.L.		GL :

CASING DRILLER	:	LOGGING UNIT	: 3666
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS
CASING THICKNESS:		RECORDED BY	: ROBERT VOSER

BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: DWING
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 3
FLUID DENSITY	:	MATRIX DELTA T		RUN	: THREE 1
MEDIUM NOISE	:	FLUID DELTA T	:	[illegible]	
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS.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API-GR
200
0
5
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15
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API-GR
200
GAM<NAT>

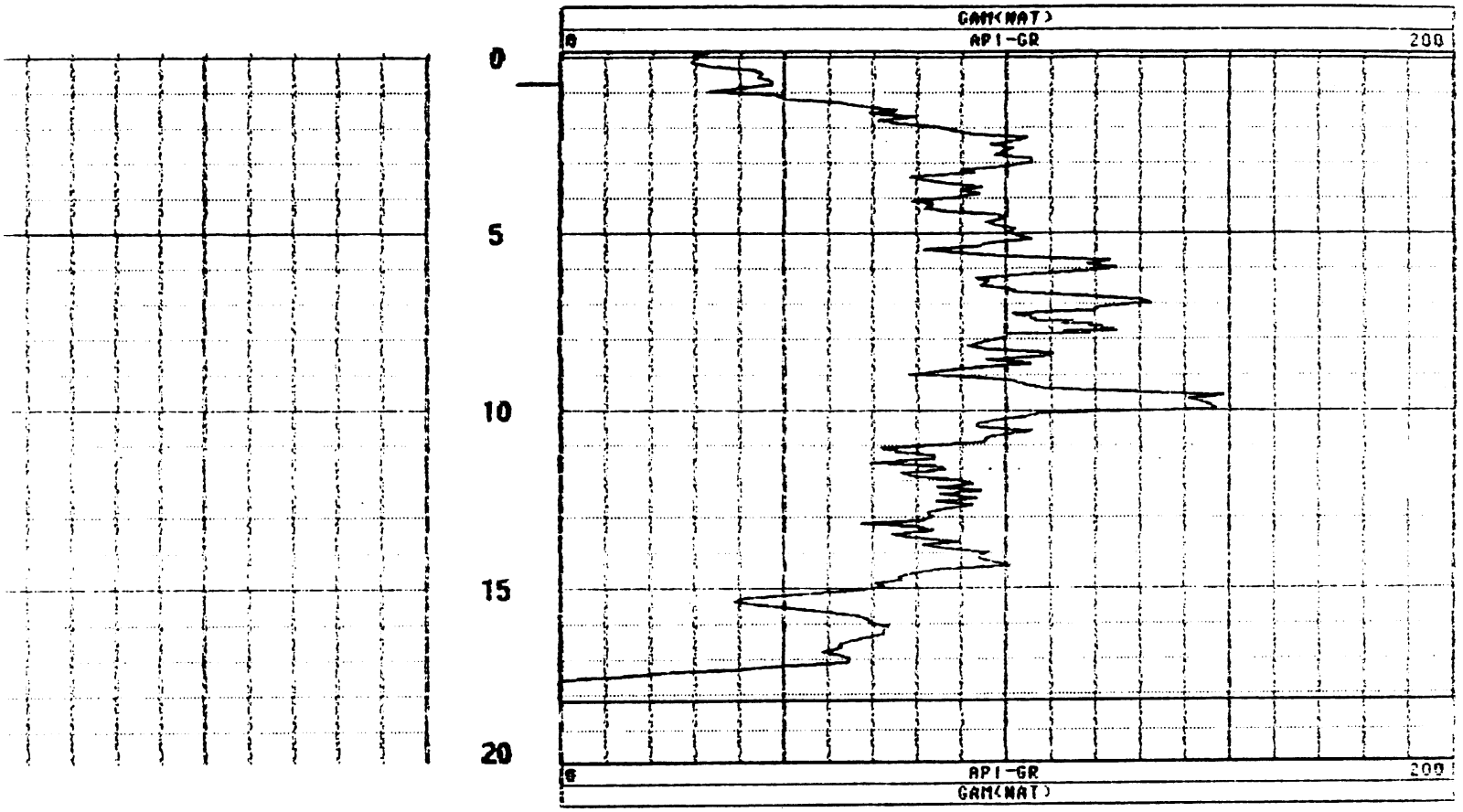
CGC

Century GEOPHYSICAL CORP.

I24.19SB4

COMPANY	: ENGINEERING SCIENCE	OTHER SERVICES:	
WELL	: I24.19SB4		
LOCATION/FIELD	: TINKER AFB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION	:	TOWNSHIP :	RANGE
DATE	: [illegible]	PERMANENT DATUM :	ELEVATIONS
DEPTH DRILLER	18	ELEV. PERM. DATUM.	KB
LOG BOTTOM	: 18.20	LOG MEASURED FROM: G.L.	DF
LOG TOP	: 0.60	DRL MEASURED FROM: G.L.	GL
CASING DRILLER	: -	LOGGING UNIT	: 9302
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS
CASING THICKNESS	:	RECORDED BY	: ROBERT VASER
BIT SIZE	: 8	BOREHOLE FLUID :	FILE : ORIGINAL
MAGNETIC DECL.	:	RM :	TYPE : 90100
MATRIX DENSITY		RM TEMPERATURE :	LOG : [illegible]
FLUID DENSITY		MATRIX DELTA T :	PLOT : 90100 0
NEUTRON MATRIX		FLUID DELTA T :	[illegible]
REMARKS	:		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


GAM(NAT)
0
API-GR
200
0
5
10
15
20
0
API-GR
200
GAM(NAT)

Century GEOPHYSICAL CORP.

124.19SB3

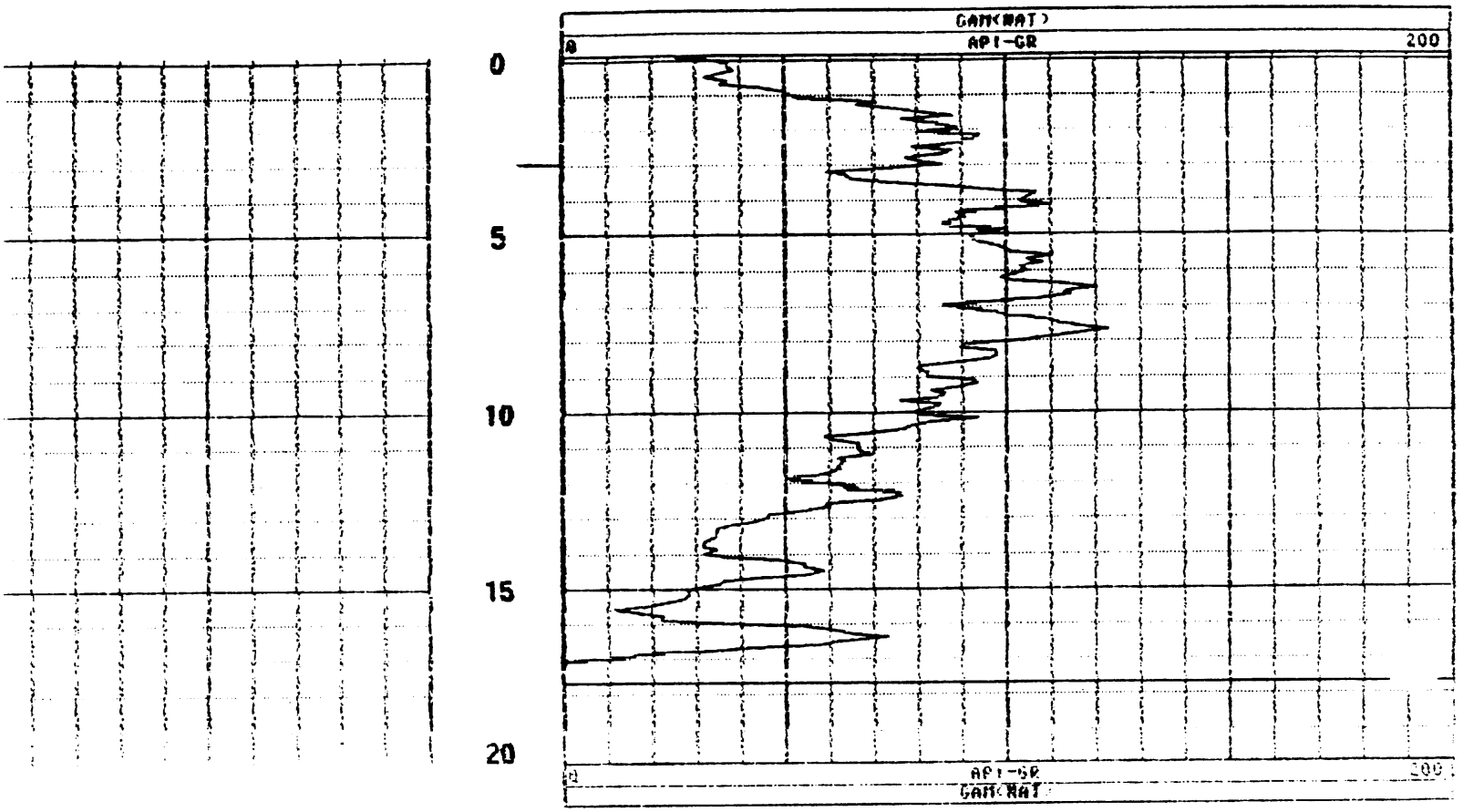
COMPANY	: ENGINEERING SCIENCE	OTHER SERVICES:	
WELL	: 124.19SB3		
LOCATION/FIELD	: TINKER AFB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION	:	TOWNSHIP :	RANGE

DATE	: [illegible]	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	18	ELEV. PERM. DATUM	:	KB	
LOG BOTTOM	: [illegible]	LOG MEASURED FROM	: G.L.	DF	
LOG TOP	: 0.00	DRL MEASURED FROM	: G.L.	GL	

CASING DRILLER	:	LOGGING UNIT	: 9302
CASING TYPE	:	FIELD OFFICE	: LAS VEGAS
CASING THICKNESS	:	RECORDED BY	: ROBERT VASER

BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL	:	RM	:	TYPE	: [illegible]
MATRIX DENSITY	:	RM TEMPERATURE	:	[illegible]	: [illegible]
FLUID DENSITY	:	MATRIX DELTA T	:	[illegible]	: [illegible]
NEUTRON MATRIX	:	FLUID DELTA T	:	[illegible]	: [illegible]
REMARKS					

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


GAM(RAT)
API-GR
0
200
0
5
10
15
20
0
API-GR
200
GAM(RAT)

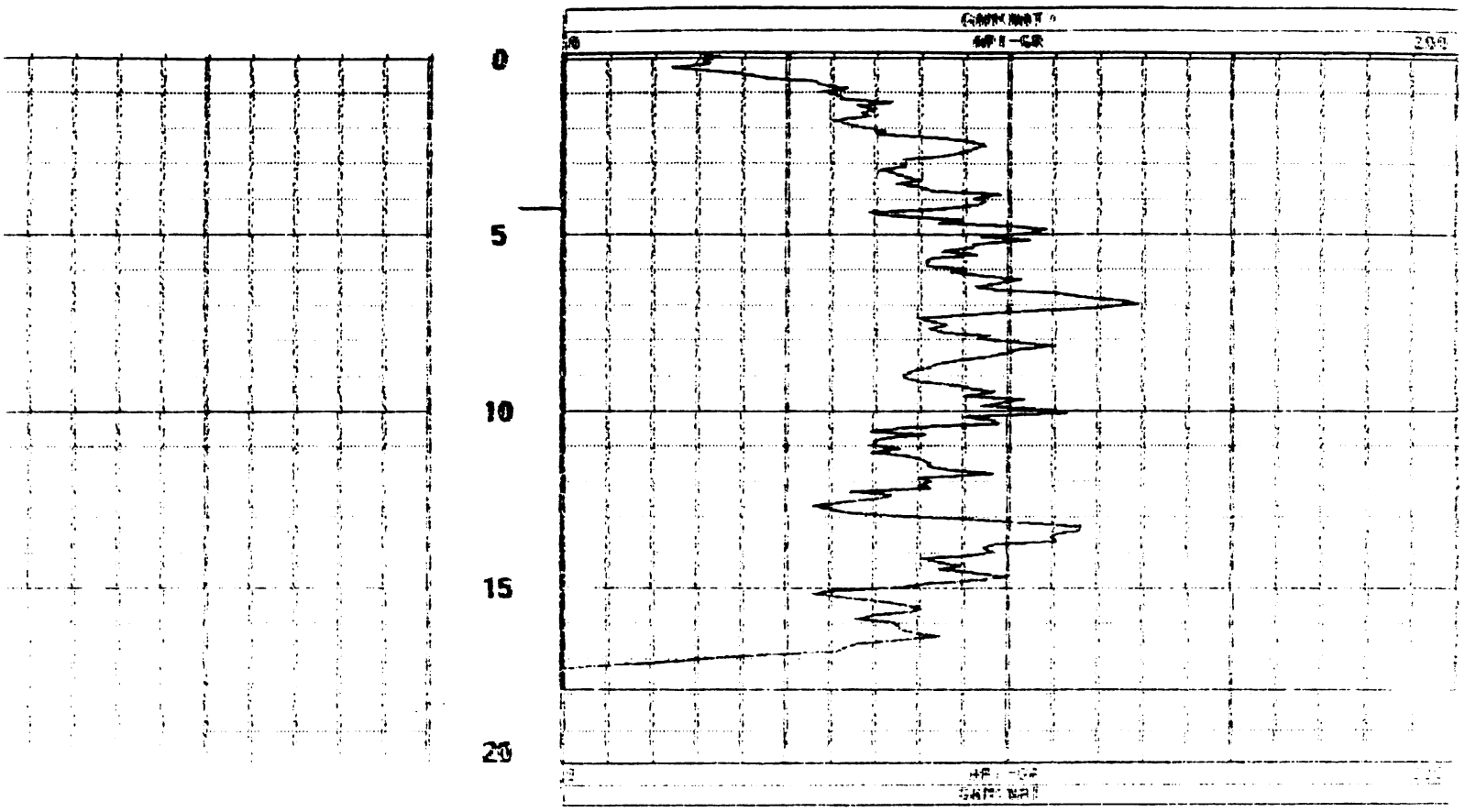
CGC

Century GEOPHYSICAL CORP.

124.19SB6

COMPANY	: ENGINEERING SCIENCE		OTHER SERVICES:
WELL	: 124.19SB6		
LOCATION/FIELD	: TINKER AFB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION	:	TOWNSHIP	RANGE
DATE	: [illegible]	PERMANENT DATUM	ELEVATIONS
DEPTH DRILLER	: 18	ELEV. PERM. DATUM	KB
LOG BOTTOM	: 17.00	LOG MEASURED FROM: G.L.	DF
[illegible]	[illegible]	[illegible]	[illegible]
CASING DRILLER	:	CASING WELL	[illegible]
CASING FILL	:	[illegible]	[illegible]
CASING INTERVAL	:	[illegible]	[illegible]
BIT SIZE	: 8	BOREHOLE FLUID	FILE : ORIGINAL
MAGNETIC DECL.	:	RM	TYPE : [illegible]
MATRIX DENSITY	:	RM TEMPERATURE	[illegible]
FLUID DENSITY	:	MATRIX DELTA T	[illegible]
NEUTRON MATRIX	:	FLUID DELTA T	[illegible]
[illegible]			

[illegible]


0
5
10
15
20
API-GR

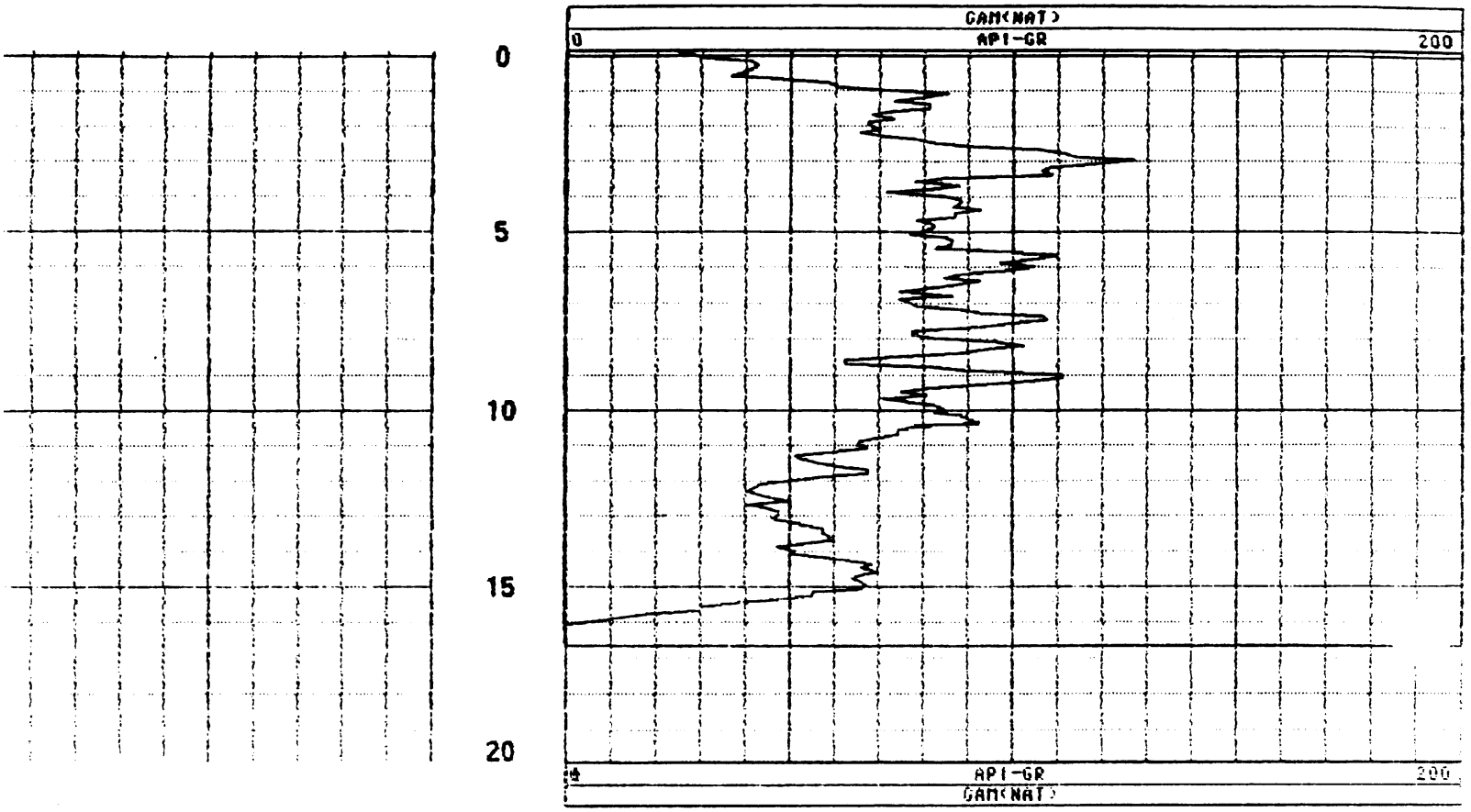
CGC

Century GEOPHYSICAL CORP.

124.19SB7

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: 124.19SB7				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 11/07/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 18	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 16.78	LOG MEASURED FROM	: G.L.	DF	:
LOG TOP	: 0.90	DRL MEASURED FROM	: G.L.	GL	:
CASING DRILLER	:	LOGGING UNIT	: 9302		
CASING TYPE	:	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	:	RECORDED BY	: ROBERT YASEK		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9010A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 0
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: 9010A 0
NEUTRON MATRIX	:	FLUID DELTA T	:	TAPE NO	: [illegible]
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


GAM(NAT)
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API-GR
200
0
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API-GR
200
GAM(NAT)

CGC

Century GEOPHYSICAL CORP.

I24.19SB8

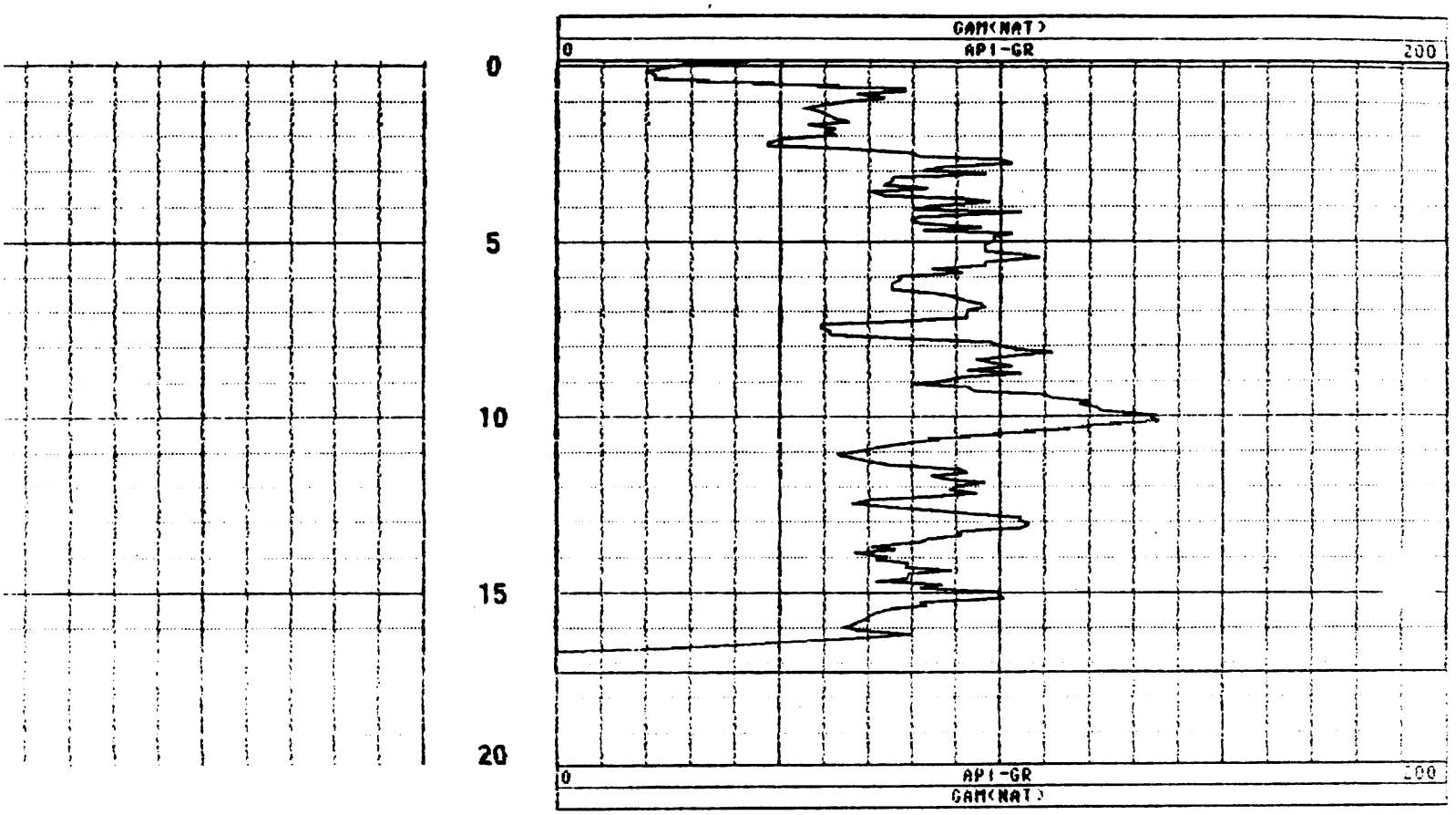
COMPANY	: ENGINEERING SCIENCE	OTHER SERVICES:	
WELL	: I24.19SB8		
LOCATION/FIELD	: TINKER AFB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION	:	TOWNSHIP :	RANGE :

DATE	: 11/07/93	PERMANENT DATUM	:	ELEVATIONS
DEPTH DRILLER	: 18	ELEV. PERM. DATUM	:	KB :
LOG BOTTOM	: 17.30	LOG MEASURED FROM	: G.L.	DF :
LOG TOP	: -0.80	DRL MEASURED FROM	: G.L.	GL :

CASING DRILLER	: -	LOGGING UNIT	: 9302
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS
CASING THICKNESS	:	RECORDED BY	: ROBERT VASER

BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9010A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 0
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: 9010A 0
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH	: 000000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


GAM(NAT)
0
API-GR
200
0
5
10
15
20
0
API-GR
200
GAM(NAT)

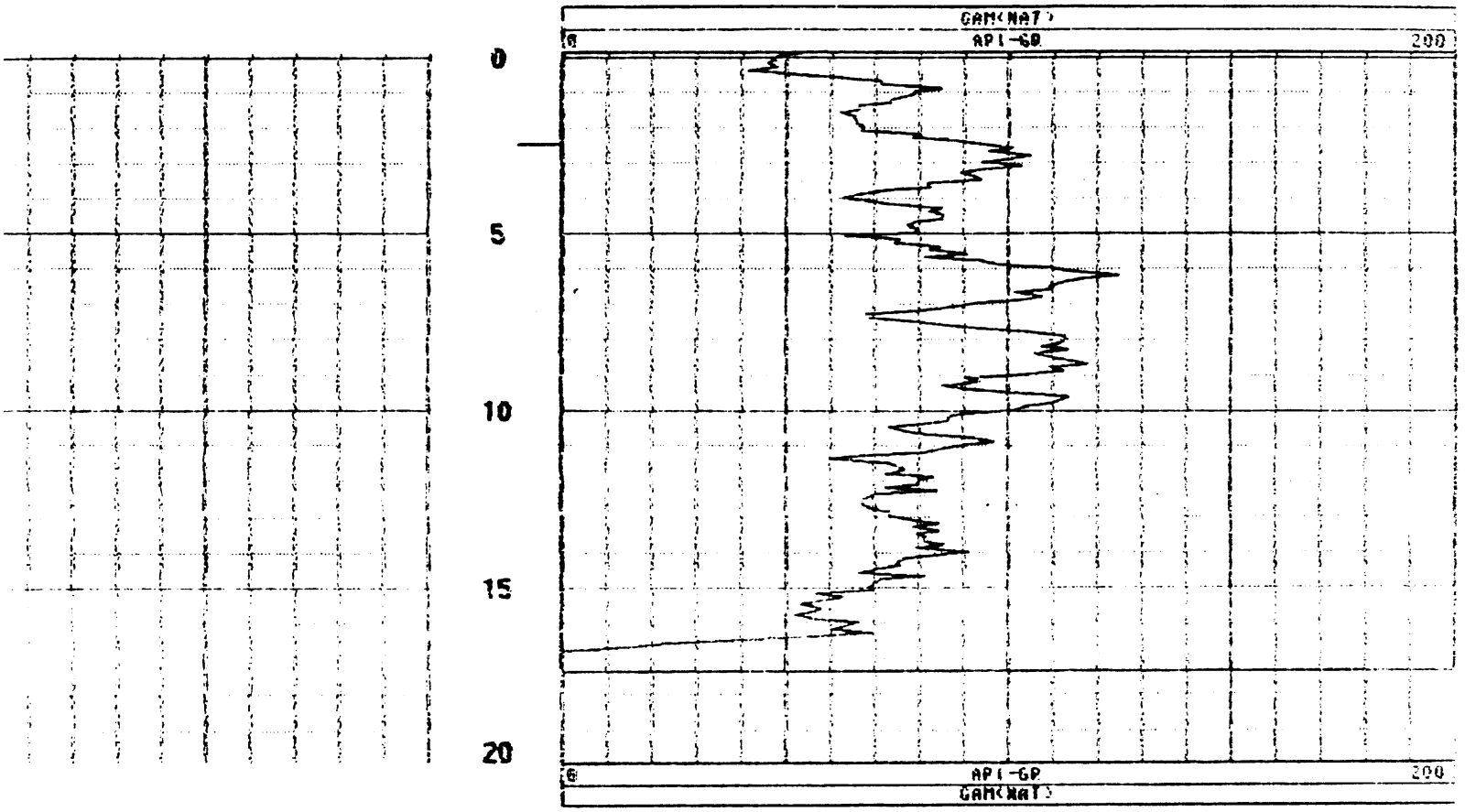
CGC

Century GEOPHYSICAL CORP.

124.19SB5

COMPANY	: ENGINEERING SCIENCE	OTHER SERVICES:	
WELL	: 124.19SB5		
LOCATION/FIELD	: TINKER AFB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION	:	TOWNSHIP :	RANGE :
DATE	: 11/07/93	PERMANENT DATUM :	ELEVATION
DEPTH DRILLER	18	[illegible]	[illegible]
LOG BOTTOM	: 17.48	LOG MEASURED FROM : G.L.	9F
LOG TOP	: -1.00	DRL MEASURED FROM : G.L.	[illegible]
CASING DRILLER	:	LOGGING UNIT	: 9302
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS
CASING THICKNESS	: -	RECORDED BY	: ROBERT VASEK
BIT SIZE	: 8	BOREHOLE FLUID	: FILE : ORIGINAL
MAGNETIC DECL.	:	RM	: TYPE : [illegible]
MATRIX DENSITY	:	RM TEMPERATURE	: LOG : [illegible]
FLUID DENSITY	:	MATRIX DELTA T	: PLOT : [illegible]
NEUTRON MATRIX	:	FLUID DELTA T	: TOPSCALE : [illegible]
REMARKS	:		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


GAM(NAT)
0
API-GR
200
0
5
10
15
20
0
API-GR
200
GAM(NAT)

Century GEOPHYSICAL CORP.

124.19SB2

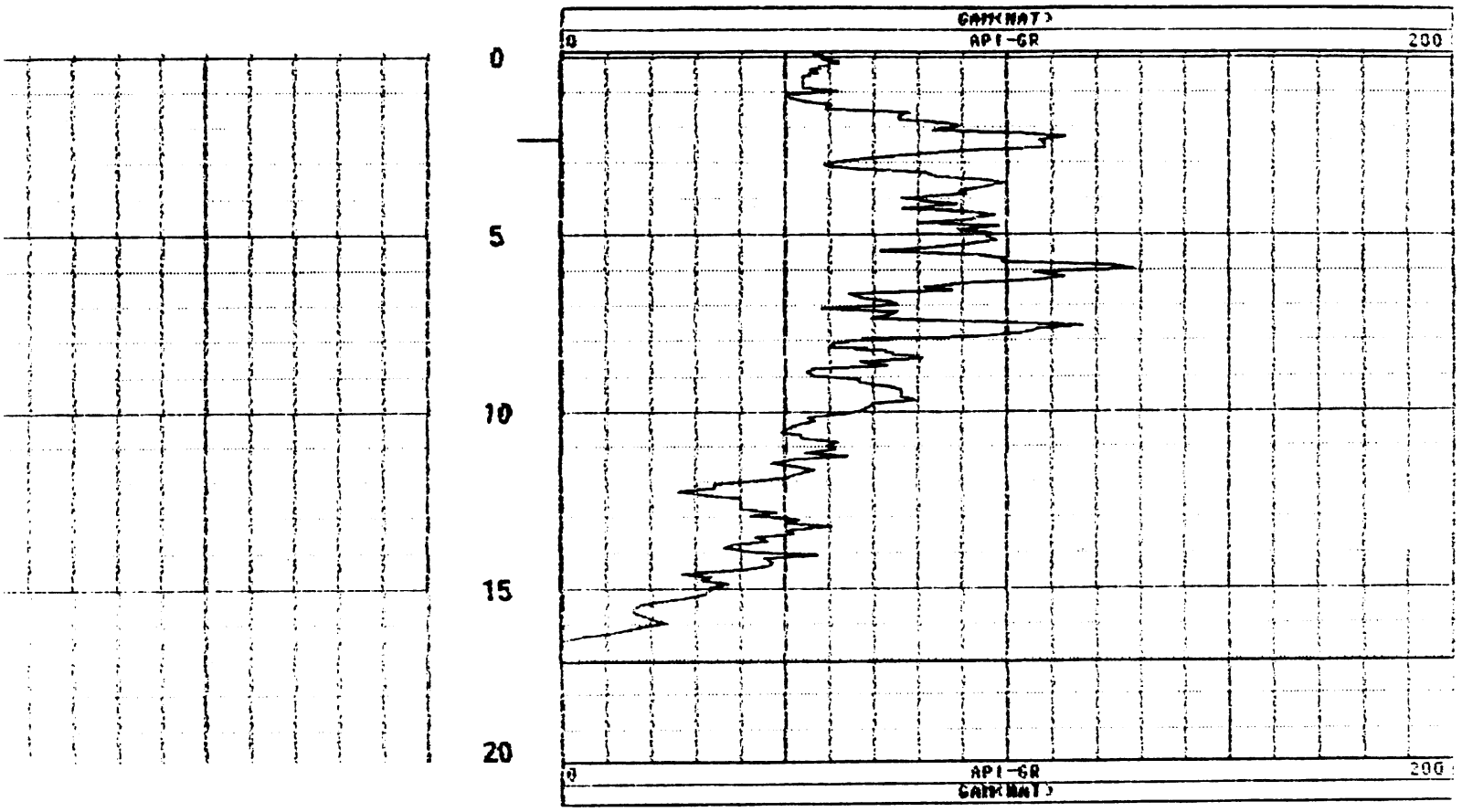
COMPANY	: ENGINEERING SCIENCE	OTHER SERVICES:	
WELL	: 124.19SB2		
LOCATION/FIELD	: TINKER AFB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION	:	TOWNSHIP :	RANGE :

DATE	: 11/07/93	PERMANENT DATUM :	ELEVATIONS
DEPTH DRILLER	: 18	LOG MEASURED FROM:	KB
LOG BOTTOM	: 17.10	DRL MEASURED FROM:	GL
LOG TOP	: -1.68		

CASING DRILLER	:	LOGGING UNIT	: 5882
CASING TYPE	:	FIELD OFFICE	: LAS VEGAS
CASING THICKNESS	: -	RECORDED BY	: ROBERT WASER

BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: [illegible]
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 1
FLUID DENSITY	:	MATRIX DELTA T	:	RUN	: [illegible]
MATRIX NOTATION	:	FLUID DELTA T	:	[illegible]	: [illegible]
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

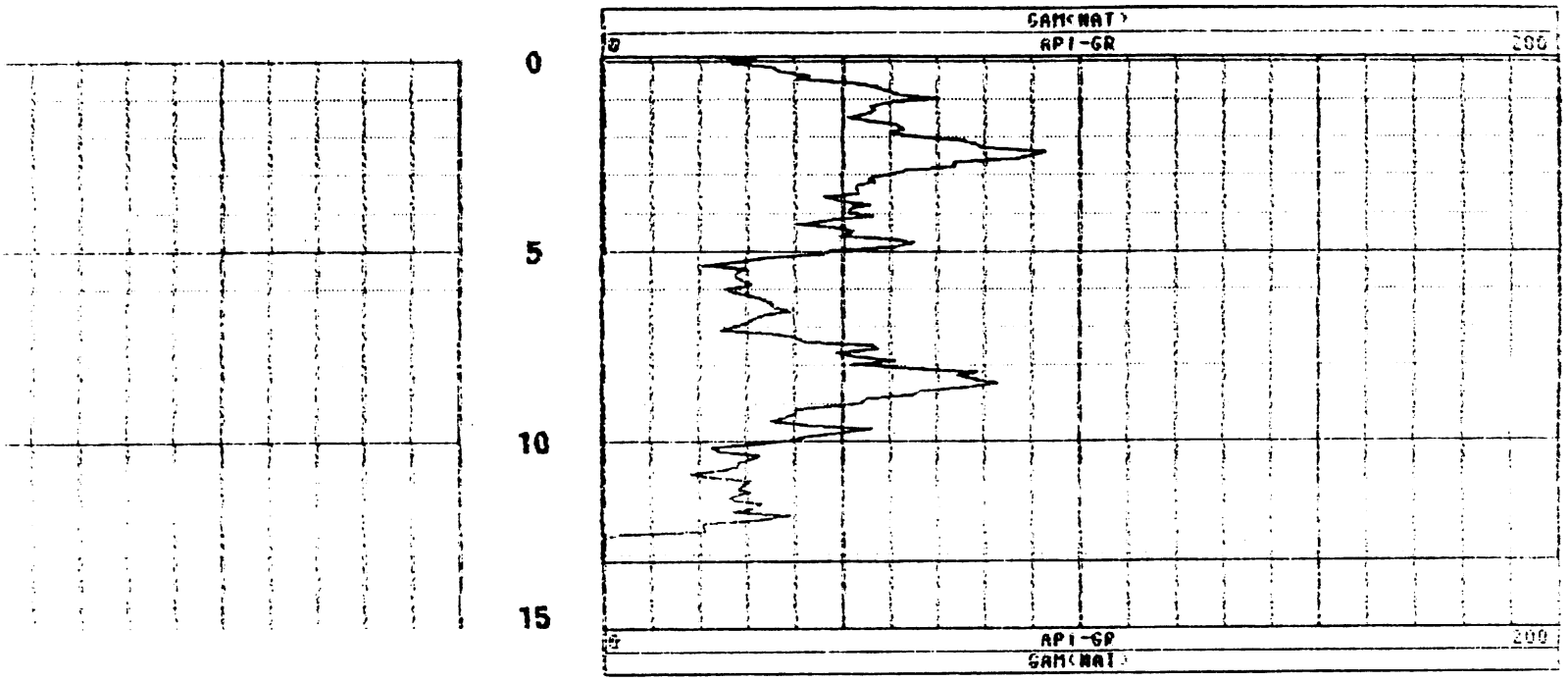

GAMMA(NAT)
0
API-GR
200
0
5
10
15
20
0
API-GR
200
GAMMA(NAT)

Century GEOPHYSICAL CORP.

124.3581

COMPANY	: ENGINEERING SCIENCE		
WELL	: 124.3581		
LOCATION/FIELD	: TINKER OKB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION	:	TOWNSHIP :	RANGE :
DATE	: 11/08/93	PERMANENT DATUM :	ELEVATIONS
[illegible]	15	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
CASING DRILLER	:	LOGGING UNIT :	[illegible]
CASING TYPE	:	FIELD OFFICE :	[illegible]
CASING THICKNESS	:	RECORDED BY :	ROBERT VASER
BIT SIZE	: [illegible]	BOREHOLE FLUID :	FILE : ORIGINAL
MAGNETIC DECL.	:	RM :	TYPE : [illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
REMARKS			

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


SAM(NAT)
0
API-GR
200
0
5
10
15
API-GR
200
SAM(NAT)

Century GEOPHYSICAL CORP.

124.3SB4

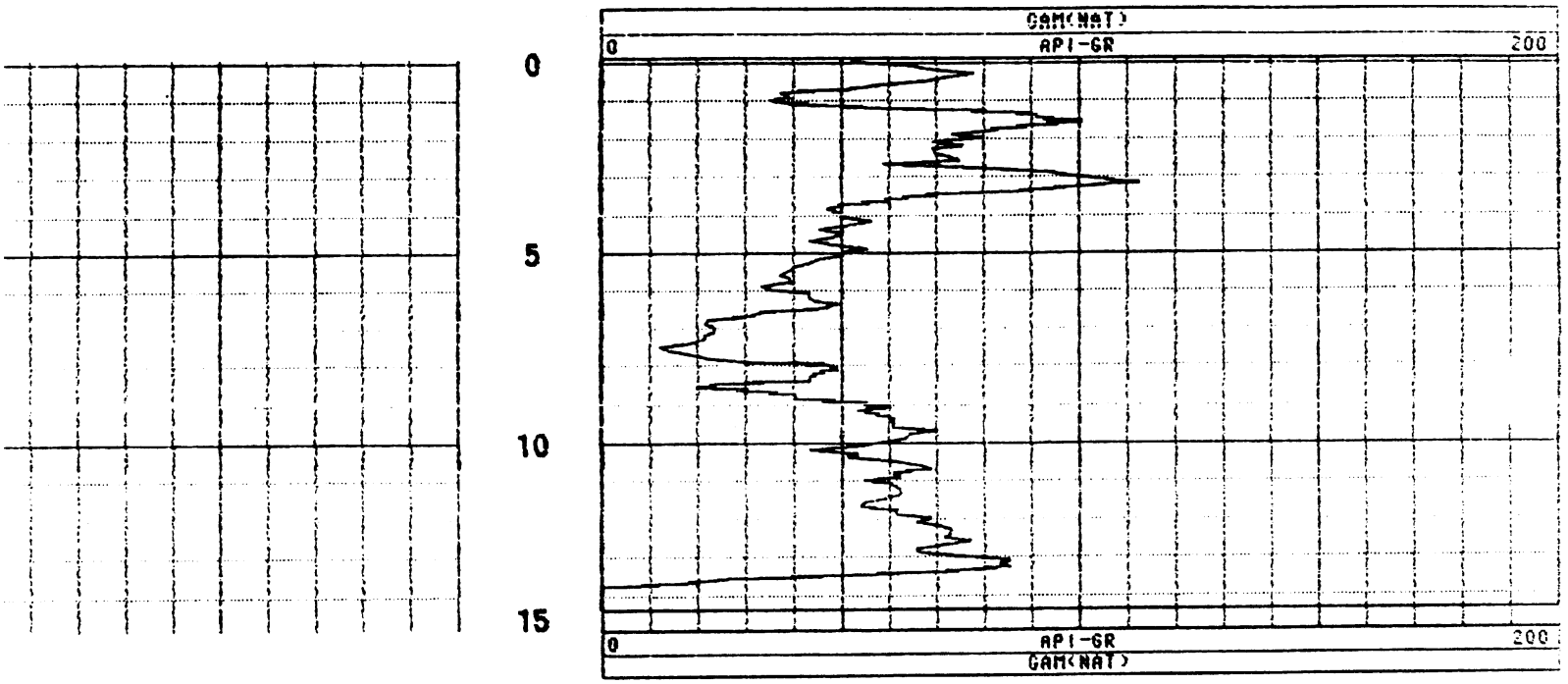
COMPANY	: ENGINEERING SCIENCE		OTHER SERVICES:
WELL	: 124.3SB4		
LOCATION/FIELD	: TINKER AFB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION	:	TOWNSHIP :	RANGE :

DATE	: 11/08/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 15	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 14.40	LOG MEASURED FROM:	G.L.	DF	:
LOG TOP	: 0.00	DRL MEASURED FROM:	G.L.	GL	:

CASING DRILLER	: -	LOGGING UNIT	: 9302
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS
CASING THICKNESS:		RECORDED BY	: ROBERT VASEK

BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 90100
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 3
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: 90100 B
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH:	500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


GAM(NAT)
0
API-GR
200
0
5
10
15
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API-GR
200
GAM(NAT)

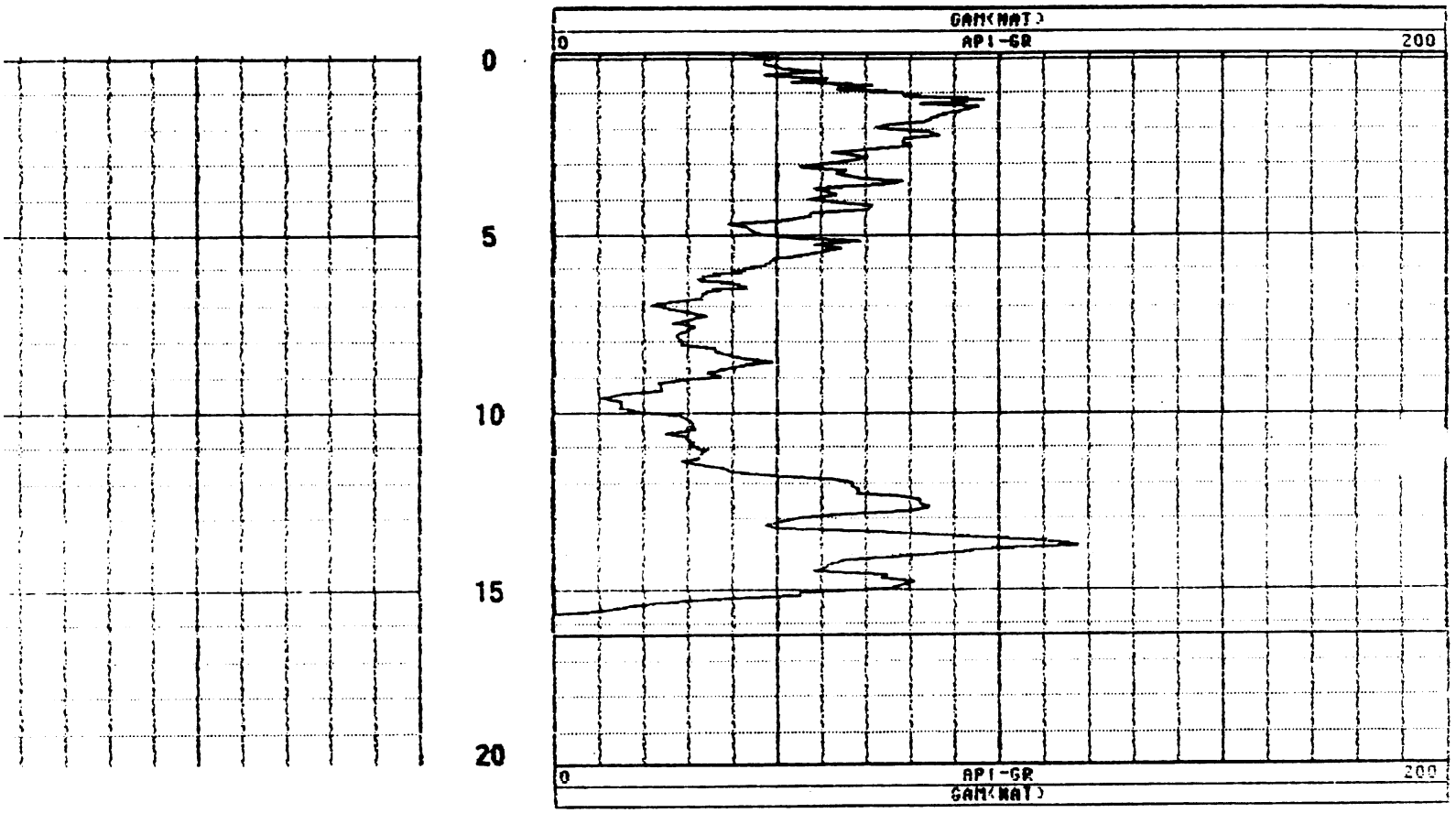
CGC

Century GEOPHYSICAL CORP.

I24.1SB1

COMPANY	: ENGINEERING SCIENCE	OTHER SERVICES:	
WELL	: I24.1SB1		
LOCATION/FIELD	: TINKER AFB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION	:	TOWNSHIP :	RANGE
DATE	: [illegible]	PERMANENT DATUM :	ELEVATIONS
DEPTH DRILLER	: 18	ELEV. PERM. DATUM:	KB :
LOG BOTTOM	: 16.30	LOG MEASURED FROM: G.L.	DF :
LOG TOP	: -1.00	DRL MEASURED FROM: G.L.	GL :
CASING DRILLER	:	LOGGING UNIT : 9302	
CASING TYPE	: -	FIELD OFFICE : LAS VEGAS	
CASING THICKNESS	:	RECORDED BY : ROBERT YASEK	
BIT SIZE	: 8	BOREHOLE FLUID :	FILE : ORIGINAL
MAGNETIC DECL.	:	RM :	TYPE : 9010A
MATRIX DENSITY	:	RM TEMPERATURE :	LOG : 1
FLUID DENSITY	:	MATRIX DELTA T :	PLOT : 9010A 0
NEUTRON MATRIX	:	FLUID DELTA T :	THRESH: 500000
REMARKS	:		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


GAM(NAT)
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API-GR
200
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10
15
20
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API-GR
200
GAM(NAT)

CGC

Century GEOPHYSICAL CORP.

124.7SB2

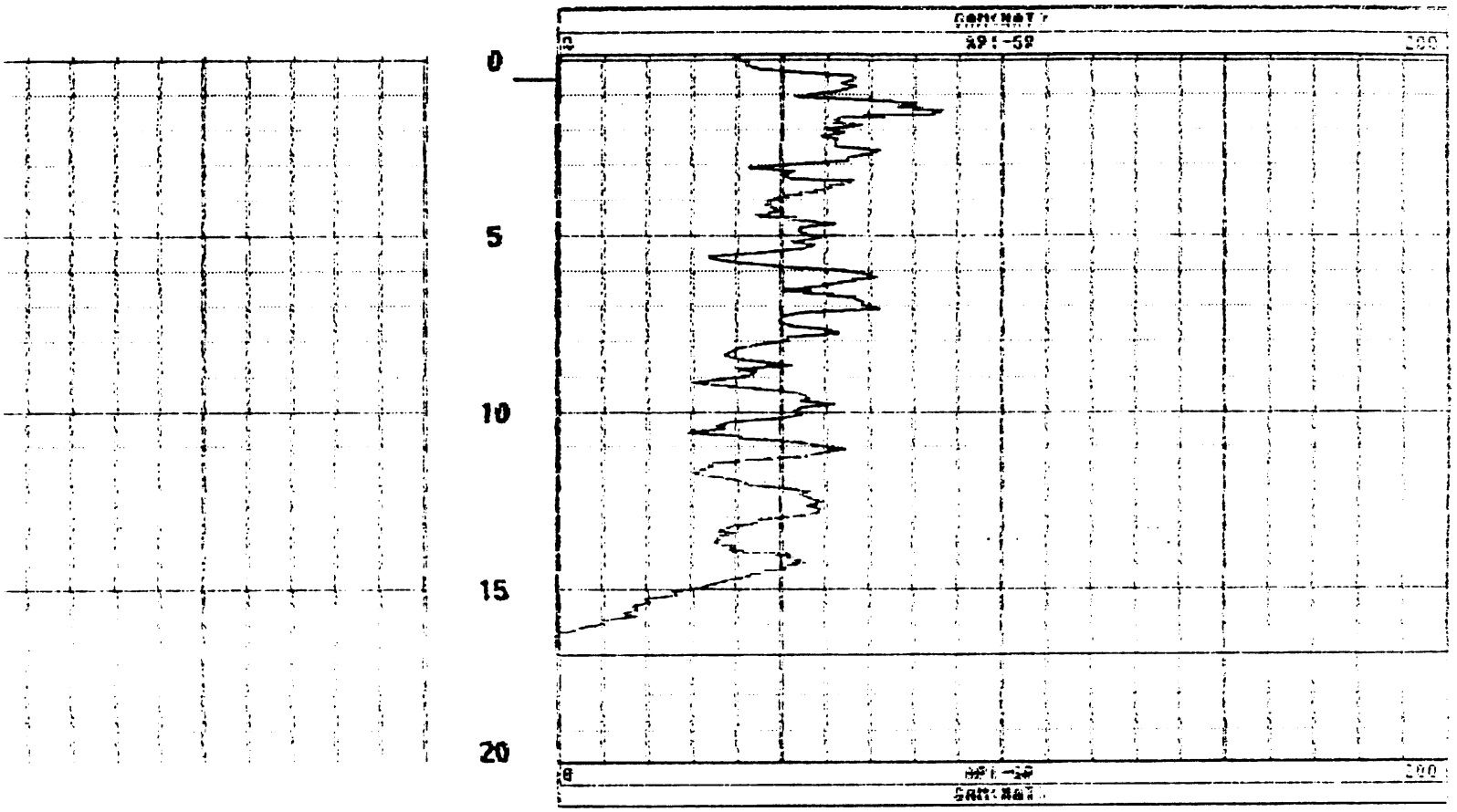
COMPANY	: ENGINEERING SCIENCE	OTHER SERVICES:	
WELL	: 124.7SB2		
LOCATION/FIELD	: TINKER AFB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION	:	TOWNSHIP :	RANGE :

DATE	: [illegible]	PERMANENT DATUM			[illegible]
DEPTH DRILLER	18	ELEV. PERM. DATUM			KB
LOG BOTTOM	: 16.99	LOG MEASURED FROM	: G.L.		DF
LOG TOP	-1.40	ARL MEASURED FROM	: G.L.		GL

CASING DRILLER	:	LOGGING UNIT	: 9302
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS
CASING THICKNESS	:	RECORDED BY	: ROBERT VOSER

BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: [illegible]
MAGNETIC DECL.	:	RM	:	TYPE	: [illegible]
[illegible]		[illegible]	:	[illegible]	
[illegible]		[illegible]	:	[illegible]	[illegible]
[illegible]	:	[illegible]	:	[illegible]	[illegible]
REMARKS					

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS.


0
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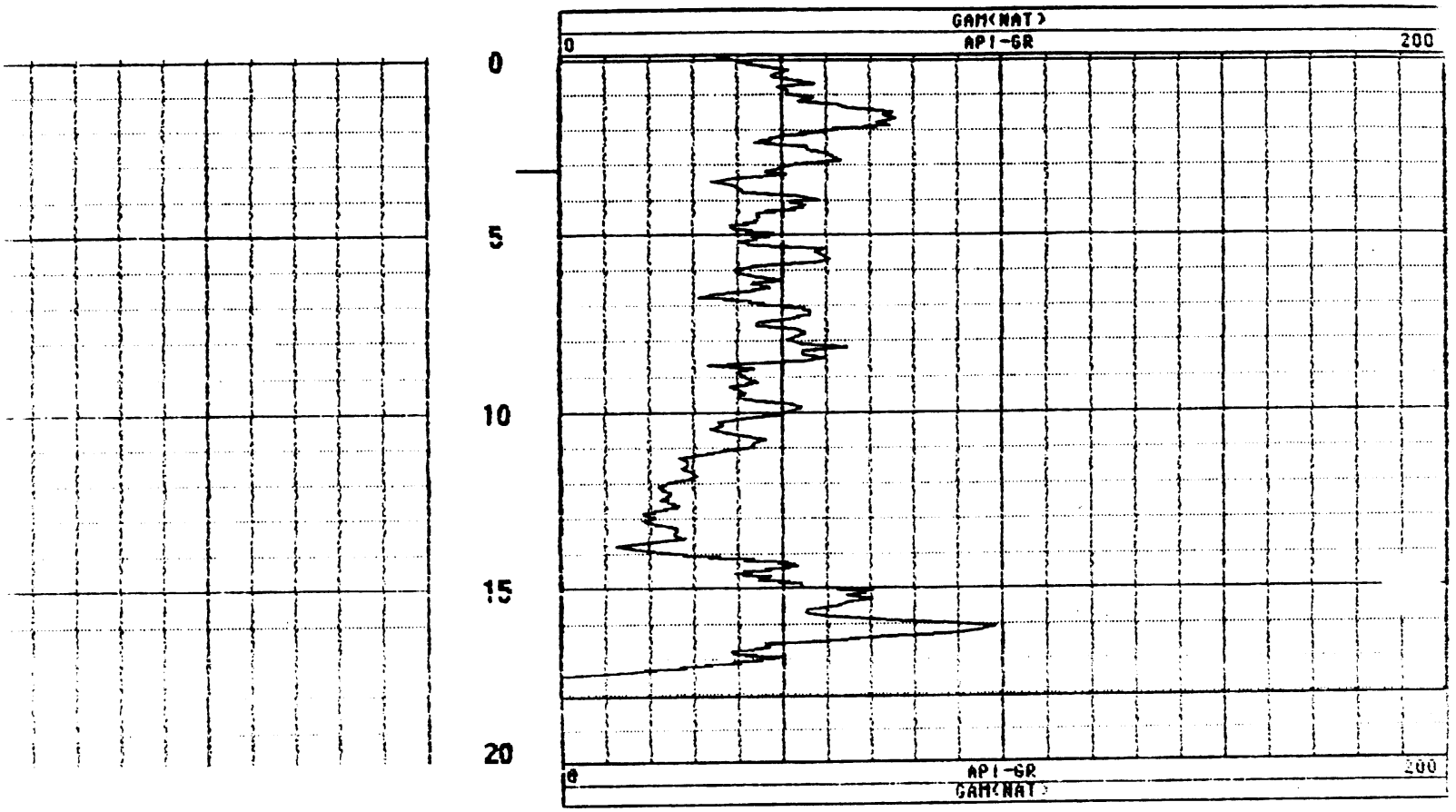
Century GEOPHYSICAL CORP.

124.11SB3

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: 124.11SB3				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 11/08/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 18	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 10.10	LOG MEASURED FROM:	G.L.	DF	:
LOG TOP	: 1.16	DRL MEASURED FROM:	G.L.	GL	:
CASING DRILLER	:	LOGGING UNIT	: 9382		
CASING TYPE	:	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS:		RECORDED BY	: ROBERT VANCE		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9010A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 0
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: 9010A 0
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH:	500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


GAM(NAT)
API-GR
0
200
0
5
10
15
20
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API-GR
200
GAM(NAT)

Century GEOPHYSICAL CORP.

I24.7SB1

COMPANY	: ENGINEERING SCIENCE		
WELL	: I24.7SB1		
LOCATION/FIELD	: TINKER AFB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION	:	TOWNSHIP :	RANGE :

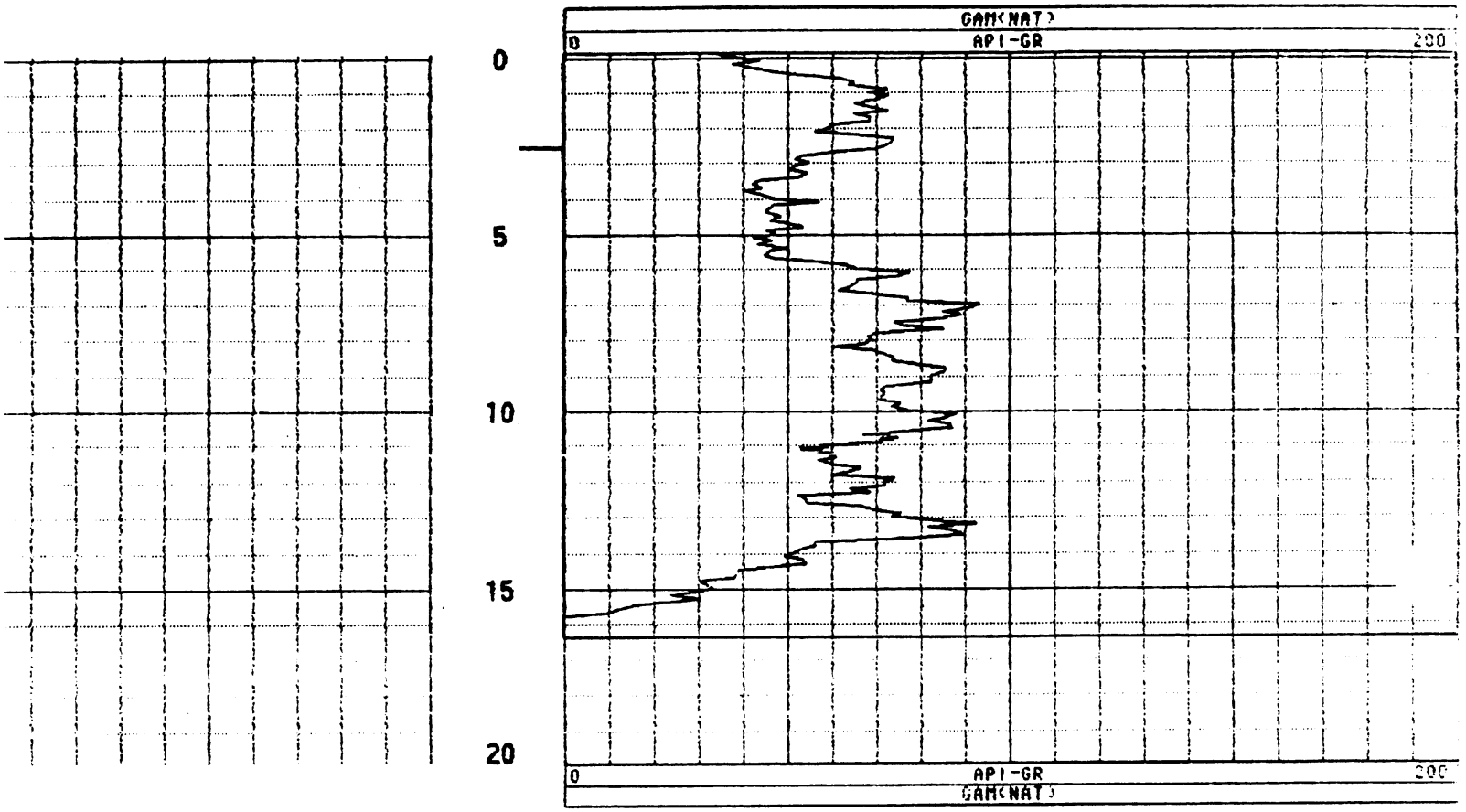
OTHER SERVICES:

DATE	: 11/08/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 17	ELEV. PERM. DATUM.		KB	:
LOG BOTTOM	: 15.48	LOG MEASURED FROM:	G.L.	DF	:
LOG TOP	: -1.30	DRL MEASURED FROM:	G.L	GL	:

CASING DRILLER	: -	LOGGING UNIT	: 9302
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS
CASING THICKNESS:		RECORDED BY	: ROBERT YASER

BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9810A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 2
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: 9810A 8
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH	: 500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS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API-GR
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GAM(NAT)

CGC

Century GEOPHYSICAL CORP.

I24.12SB5

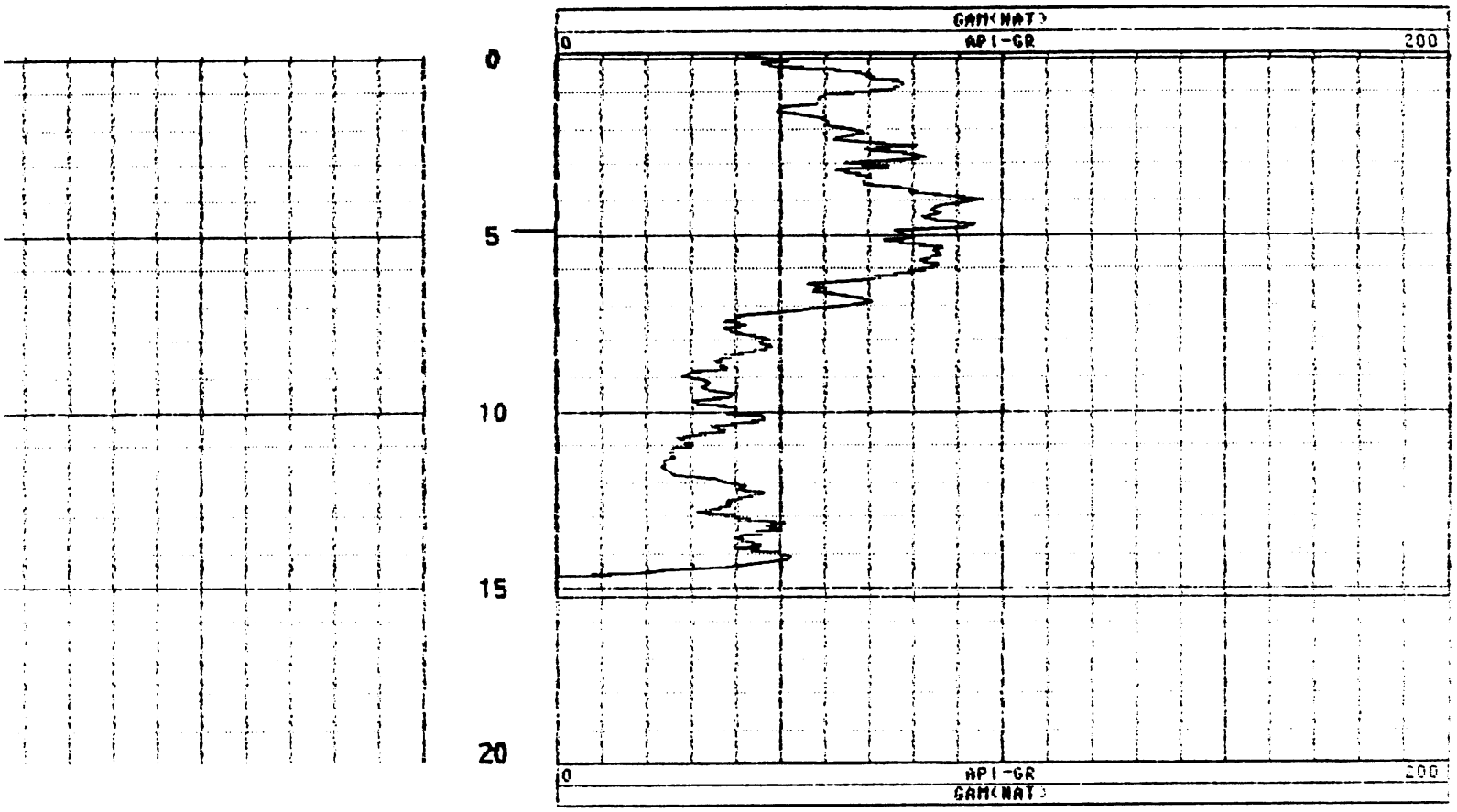
COMPANY	: ENGINEERING SCIENCE	OTHER SERVICES:	
WELL	: I24.12SB5		
LOCATION/FIELD	: TINKER AFB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION	:	TOWNSHIP :	RANGE :

DATE	[illegible]	PERMANENT DATUM :	ELEVATIONS
DEPTH DRILLER	: [illegible]	ELEV. PERM. DATUM	KB :
LOG BOTTOM	[illegible]	LOG MEASURED FROM: [illegible]	DF :
LOG TOP	[illegible]	DRL MEASURED FROM: [illegible]	GL :

CASING DRILLER	: -	LOGGING UNIT	: 9302
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS
CASING THICKNESS		RECORDED BY	: ROBERT [illegible]

BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	ORIGINAL
MAGNETIC DECL.		RM		TYPE	[illegible]
MATRIX DENSITY		RM TEMPERATURE		[illegible]	[illegible]
FLUID DENSITY		MATRIX DELTA :		[illegible]	[illegible]
NEUTRON MATRIX	:	FLUID DELTA :		[illegible]	[illegible]
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS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API-GR
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15
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API-GR
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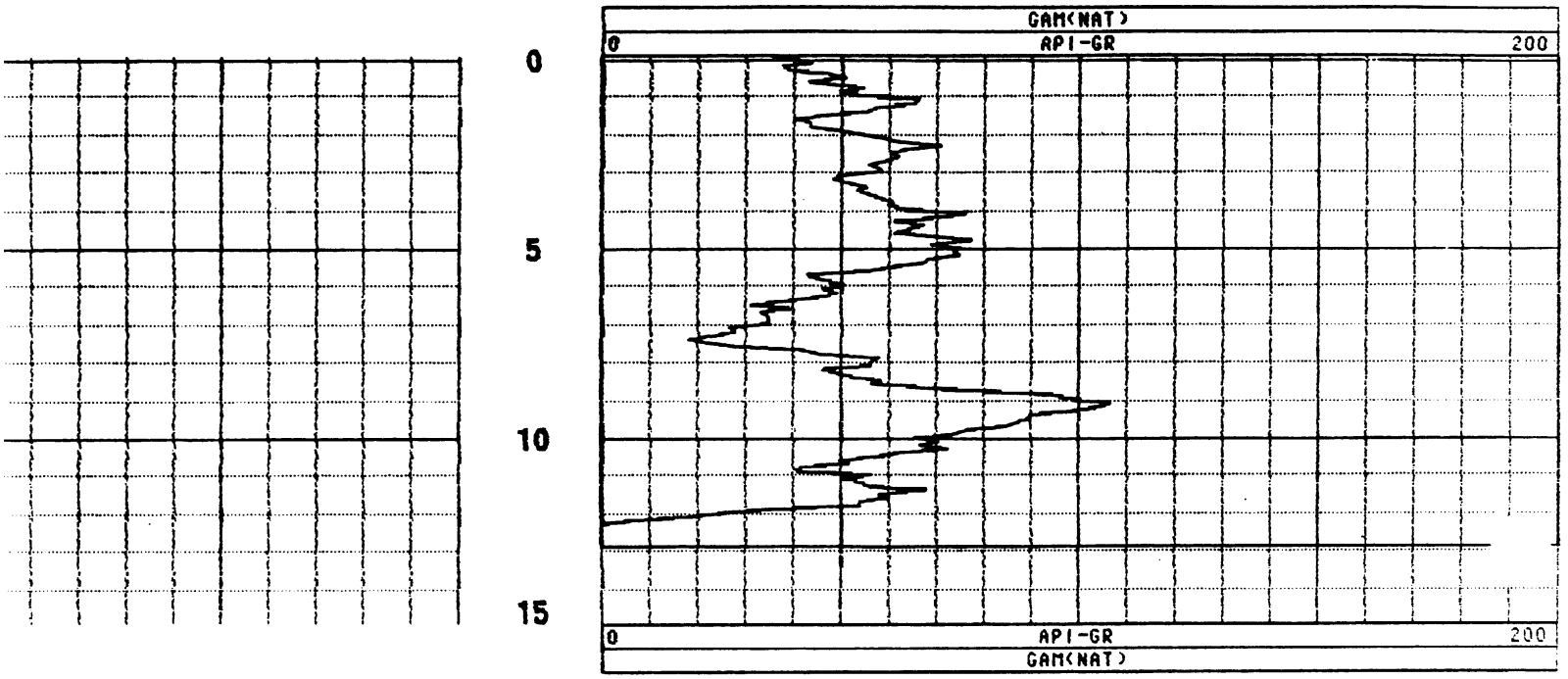
GAM(NAT)

Century GEOPHYSICAL CORP.

I24.8SB4

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: I24.8SB4				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 11/18/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: ~~12~~ 14	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 12.90	LOG MEASURED FROM:	G.L.	DF	:
LOG TOP	: -0.60	DRL MEASURED FROM:	G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT YASER		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9010A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 0
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: 9010A 0
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH	: 500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS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15
GAM(NAT)
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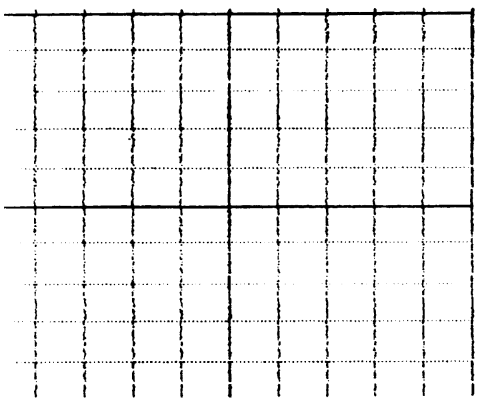
API-GR
200
0
API-GR
200
GAM(NAT)

Century GEOPHYSICAL CORP.

RCP1SB3

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: RCP1SB3				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 11/10/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 7	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 7.00	LOG MEASURED FROM:	G.L.	DF	:
LOG TOP	: -1.50	DRL MEASURED FROM:	G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT YASEK		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9010A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 0
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: 9010A 0
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH	: 500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



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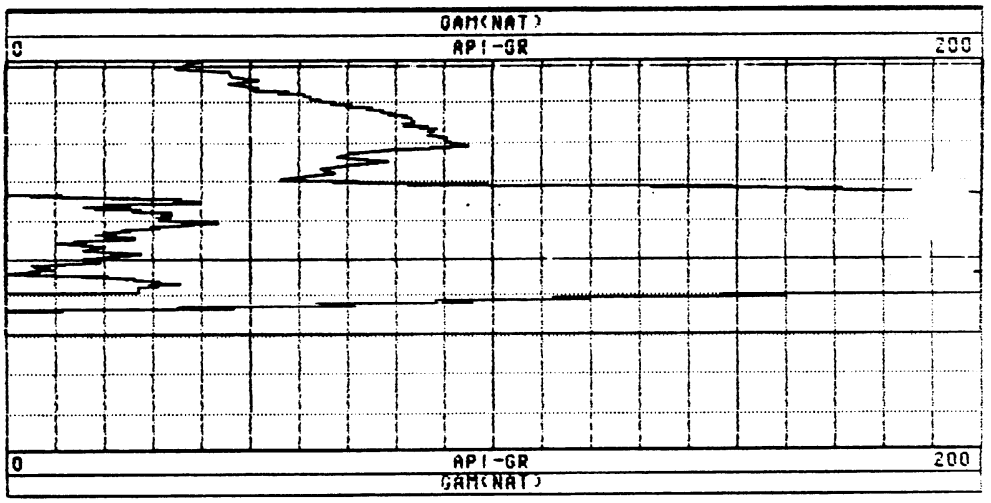


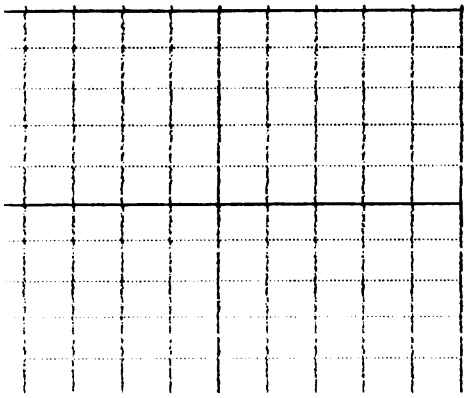
Century GEOPHYSICAL CORP.

RCP1SB2

COMPANY	: ENGINEERING SCIENCE	OTHER SERVICES:	
WELL	: RCP1SB2		
LOCATION/FIELD	: TINKER AFB		
COUNTY	: OKLAHOMA		

SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 11/10/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 10	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 9.10	LOG MEASURED FROM	: G.L.	DF	:
LOG TOP	: -1.70	DRL MEASURED FROM	: G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT YASEK		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9010A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 1
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: 9010A 0
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH	: 500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



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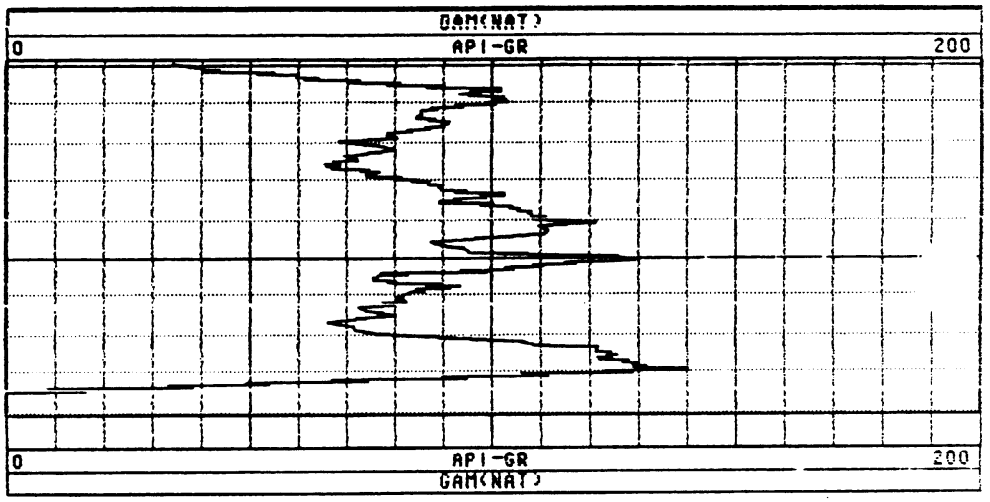
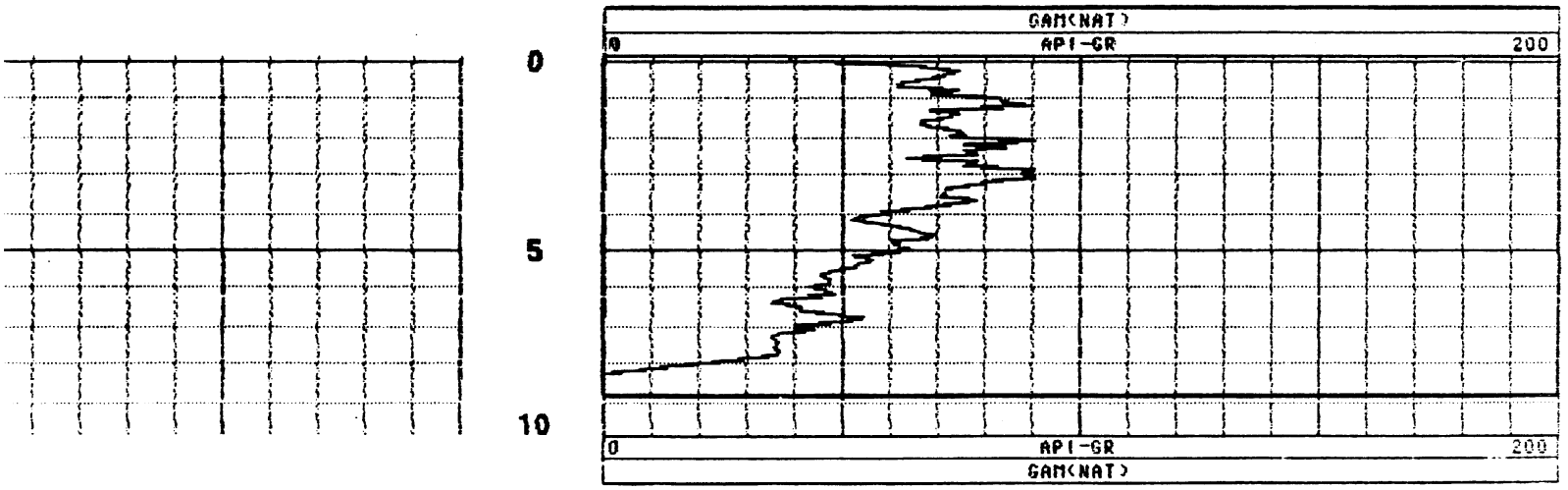


Century GEOPHYSICAL CORP.

S32.5SB3

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: S32.5SB3				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 11/10/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 9	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 8.90	LOG MEASURED FROM:	G.L.	DF	:
LOG TOP	: -1.30	DRL MEASURED FROM:	G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT YASEK		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9010A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 3
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: 9010A 0
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH	: 500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


GAM(NAT)
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API-GR
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0
API-GR
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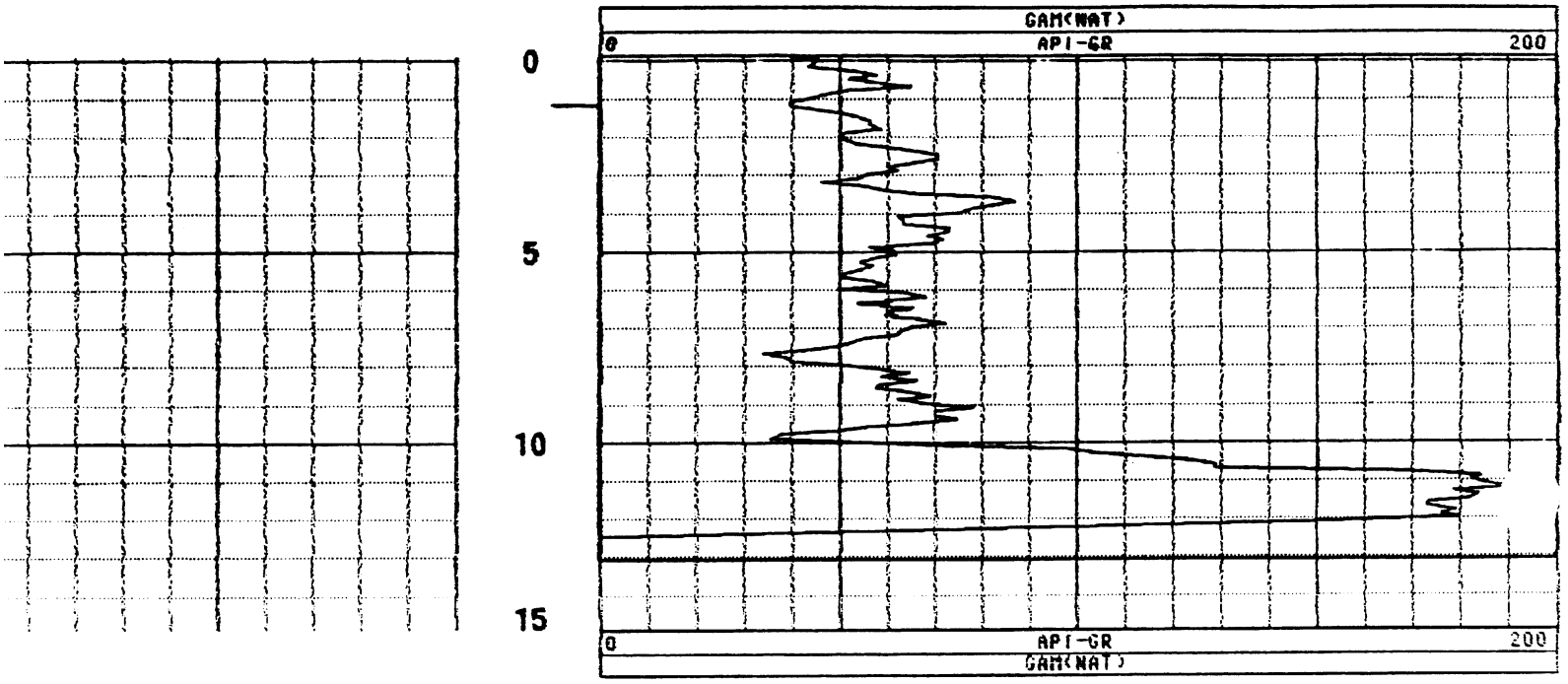
GAM(NAT)

Century GEOPHYSICAL CORP.

I24.2SB7

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: I24.2SB7				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 11/11/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 10	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 13.10	LOG MEASURED FROM:	G.L.	DF	:
LOG TOP	: -1.10	DRL MEASURED FROM:	G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT YASER		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9010A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 1
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: 90100 0
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH	: 500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


GAM(NAT)
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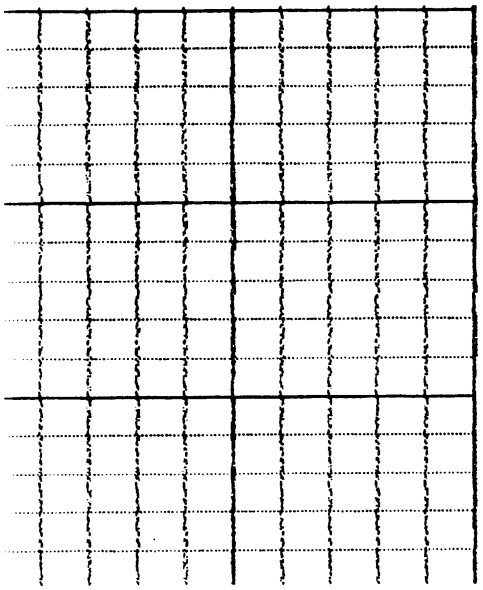
API-GR
200
0
5
10
15
0
API-GR
200
GAM(NAT)

Century GEOPHYSICAL CORP.

I24.2SB6

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: I24.2SB6				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 11/11/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 10.0	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 13.90	LOG MEASURED FROM:	G.L.	DF	:
LOG TOP	: -0.90	DRL MEASURED FROM:	G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT YASER		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 90100
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 2
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: 9010A 8
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH	: 500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



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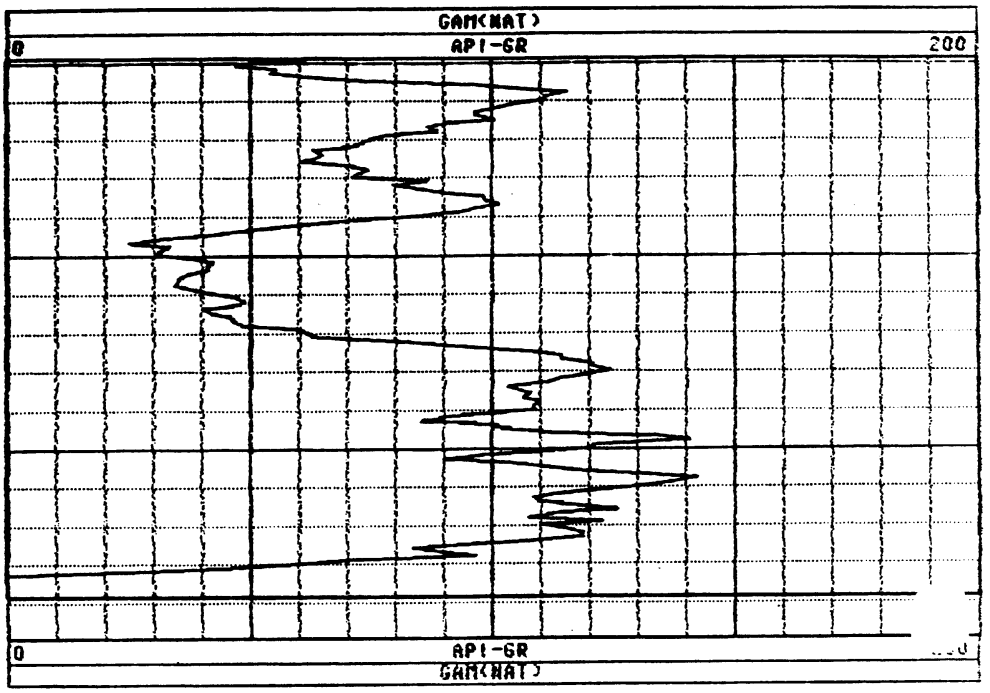
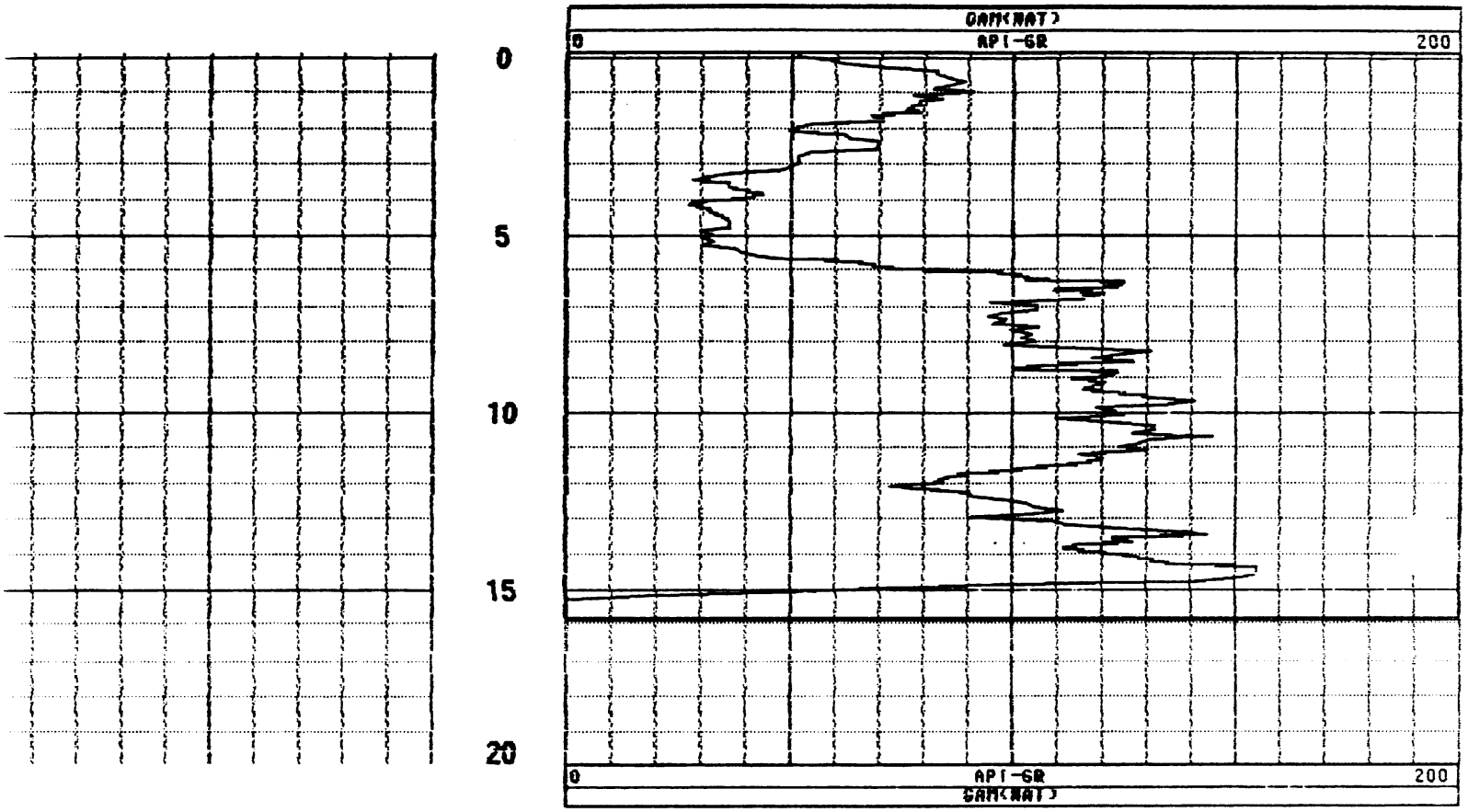


Century GEOPHYSICAL CORP.

124.2SB5

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: 124.2SB5				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 11/11/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 10	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 15.90	LOG MEASURED FROM:	G.L.	DF	:
LOG TOP	: -0.90	DRL MEASURED FROM:	G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT VASEK		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9010A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 3
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: 90180 0
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH	: 500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS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20
GAM(NAT)
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API-GR
200
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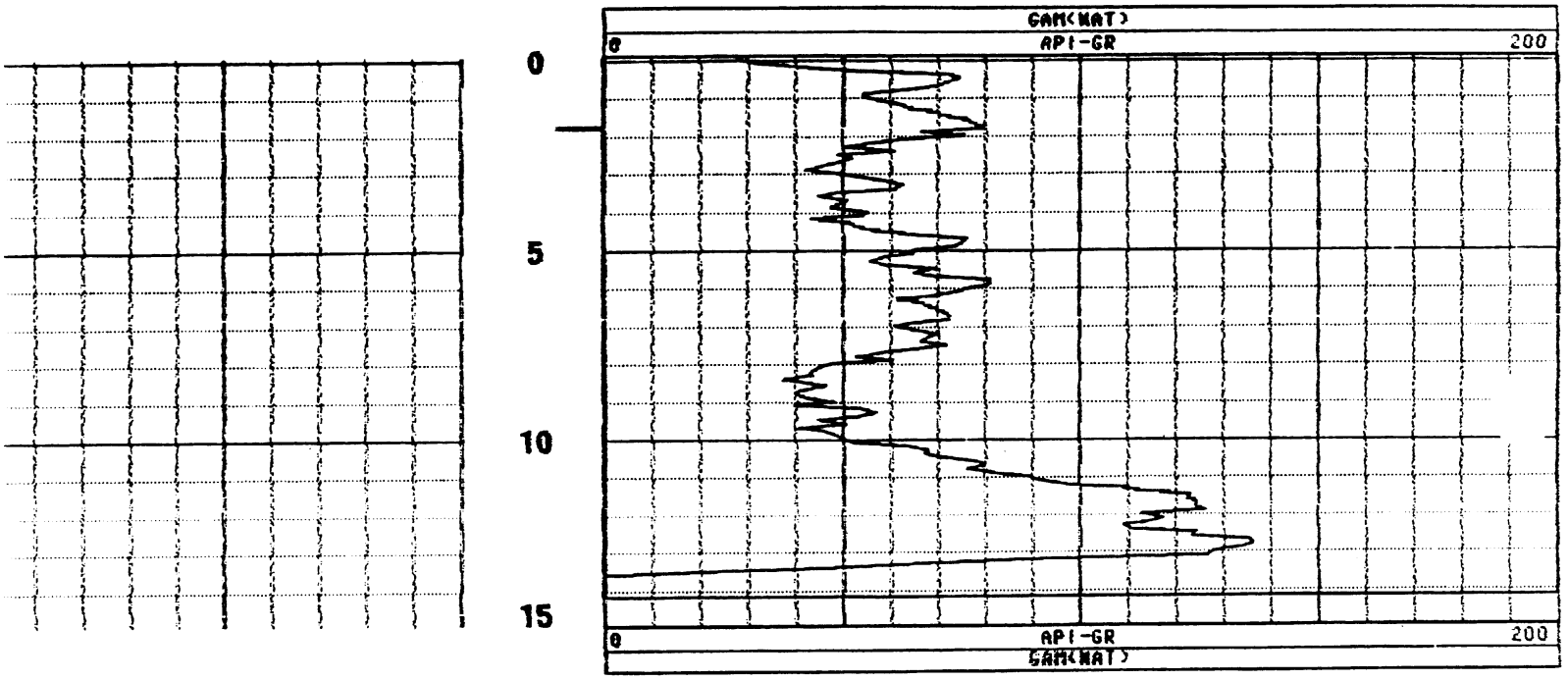
API-GR
200
GAM(NAT)

Century GEOPHYSICAL CORP.

124.2SB8

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: 124.2SB8				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 11/11/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 18	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 14.20	LOG MEASURED FROM:	G.L.	DF	:
LOG TOP	: -1.00	DRL MEASURED FROM:	G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT YASEK		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9010A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 0
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: 9010A 0
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH	: 500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS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15
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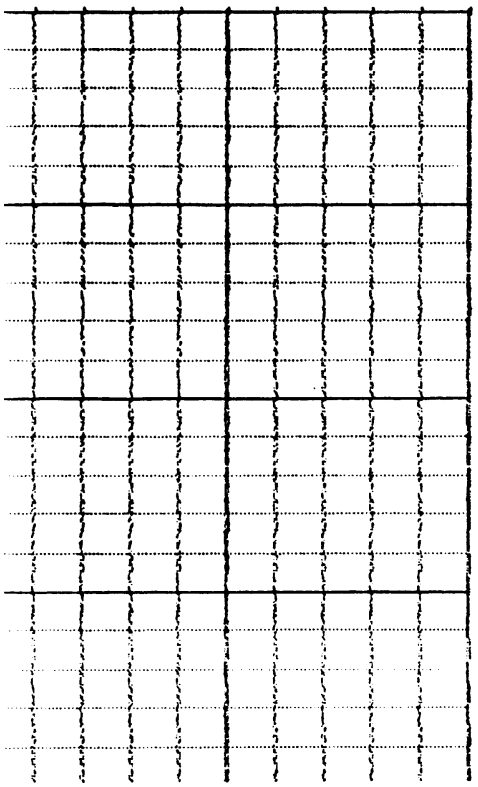
API-GR
200
GAM(NAT)

Century GEOPHYSICAL CORP.

I24.19SB1

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: I24.19SB1				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 11/11/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 18	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 17.50	LOG MEASURED FROM:	G.L.	DF	:
LOG TOP	: -1.10	DRL MEASURED FROM:	G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT YASEK		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9010A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 0
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: 9010A 0
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH	: 50000M
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



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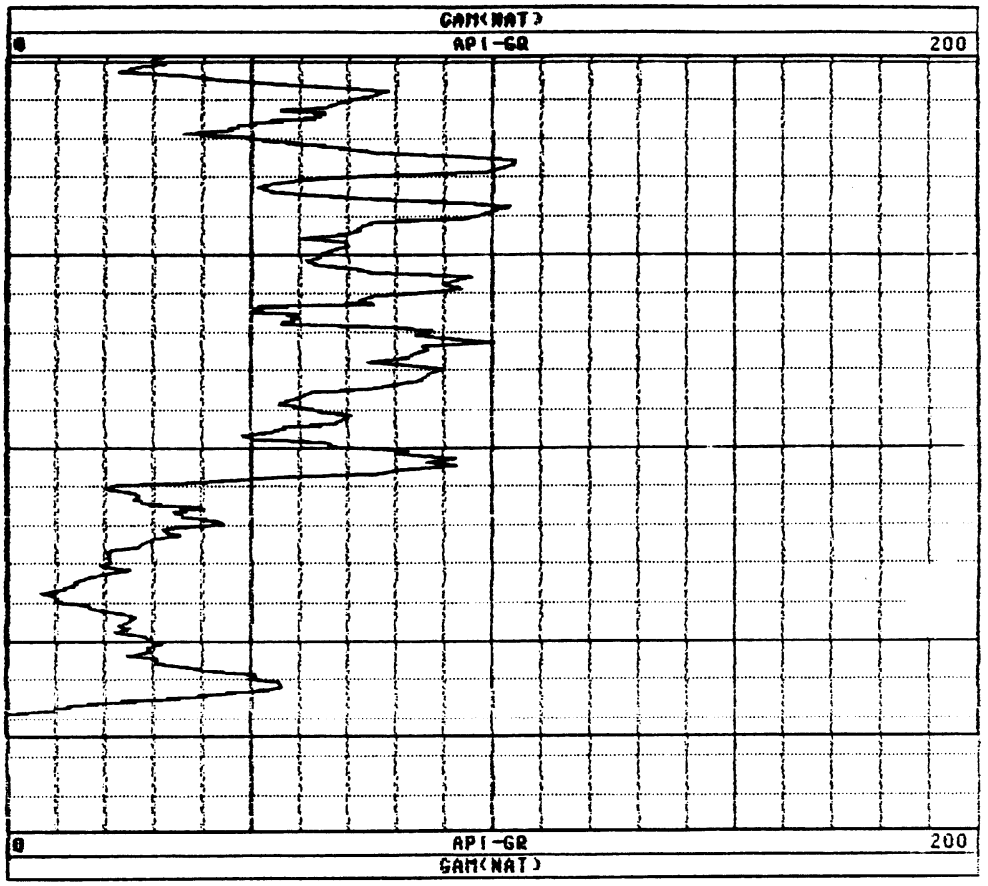
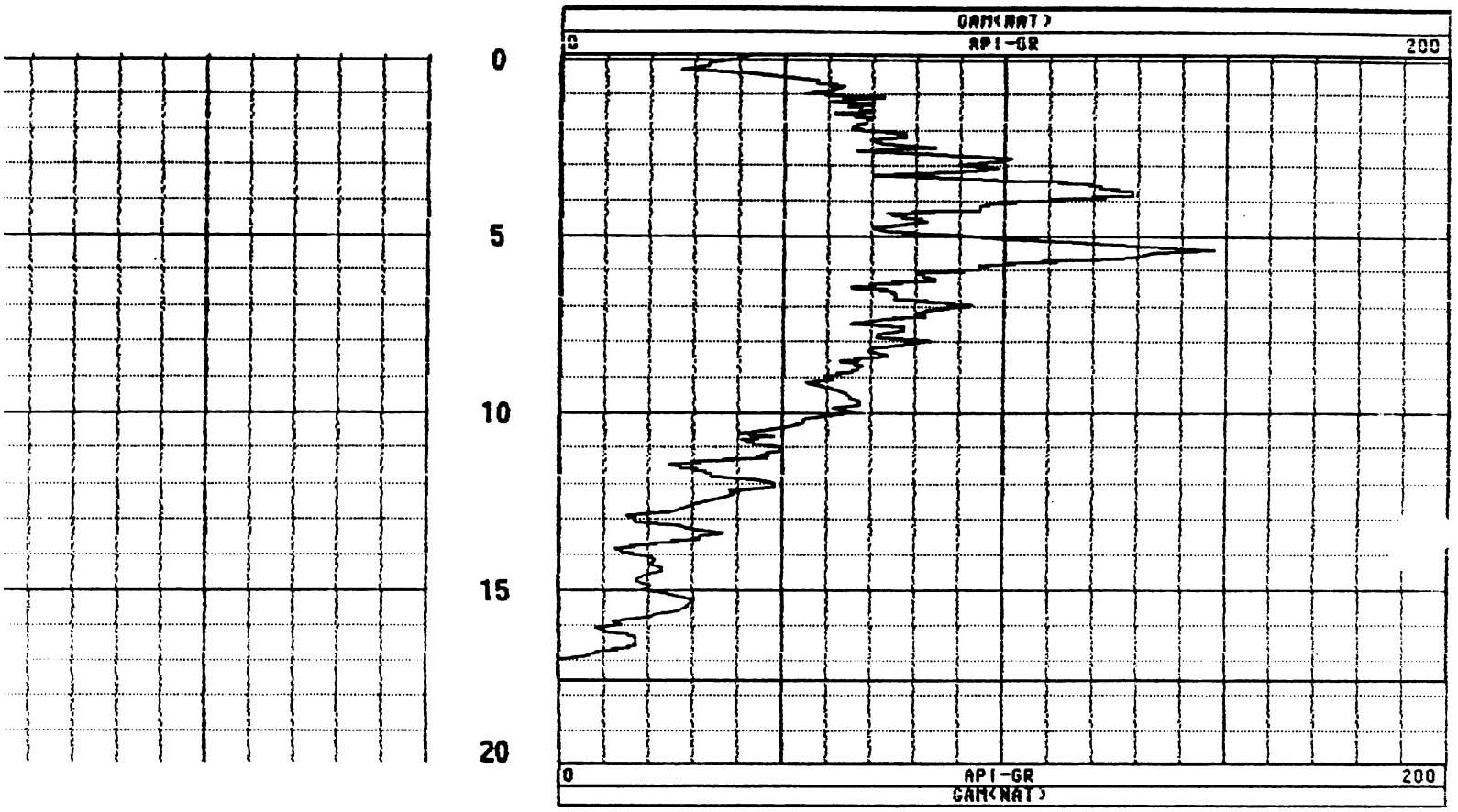


Century GEOPHYSICAL CORP.

I24.19SB10

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: I24.19SB10				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 11/12/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 18	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 17.60	LOG MEASURED FROM:	G.L.	DF	:
LOG TOP	: -0.90	DRL MEASURED FROM:	G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT YASEK		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9010A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 1
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: 9010A 0
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH	: 500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


0
5
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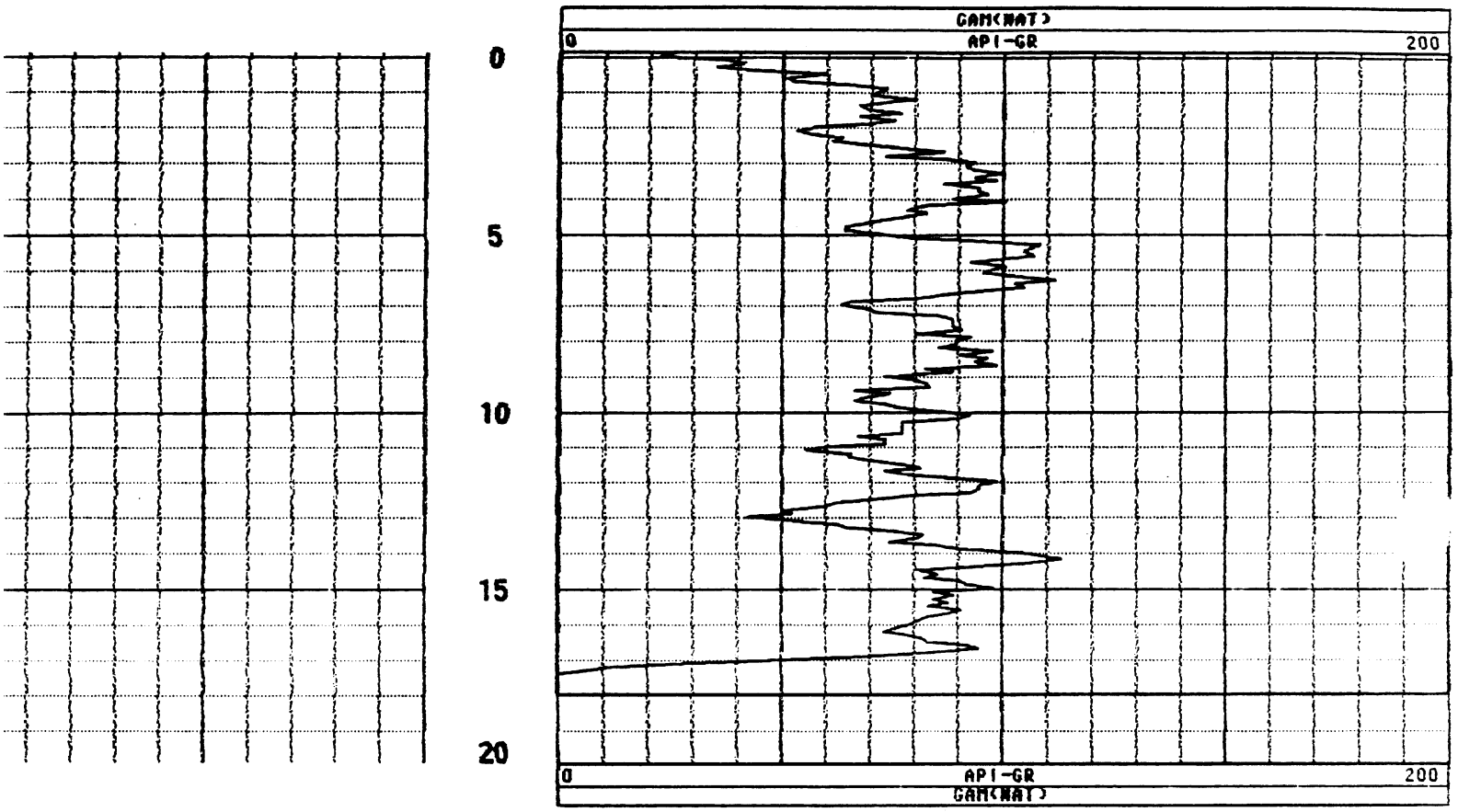
15
20
GAM(NAT)
0
API-GR
200
0
API-GR
200
GAM(NAT)

Century GEOPHYSICAL CORP.

124.19SB9

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: 124.19SB9				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 11/12/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 19	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 19.00	LOG MEASURED FROM:	G.L.	DF	:
LOG TOP	: -0.90	DRL MEASURED FROM:	G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT YASEK		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9010A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 0
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: 9010A 0
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH	: 500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


GAM(NAT)
0
API-GR
200
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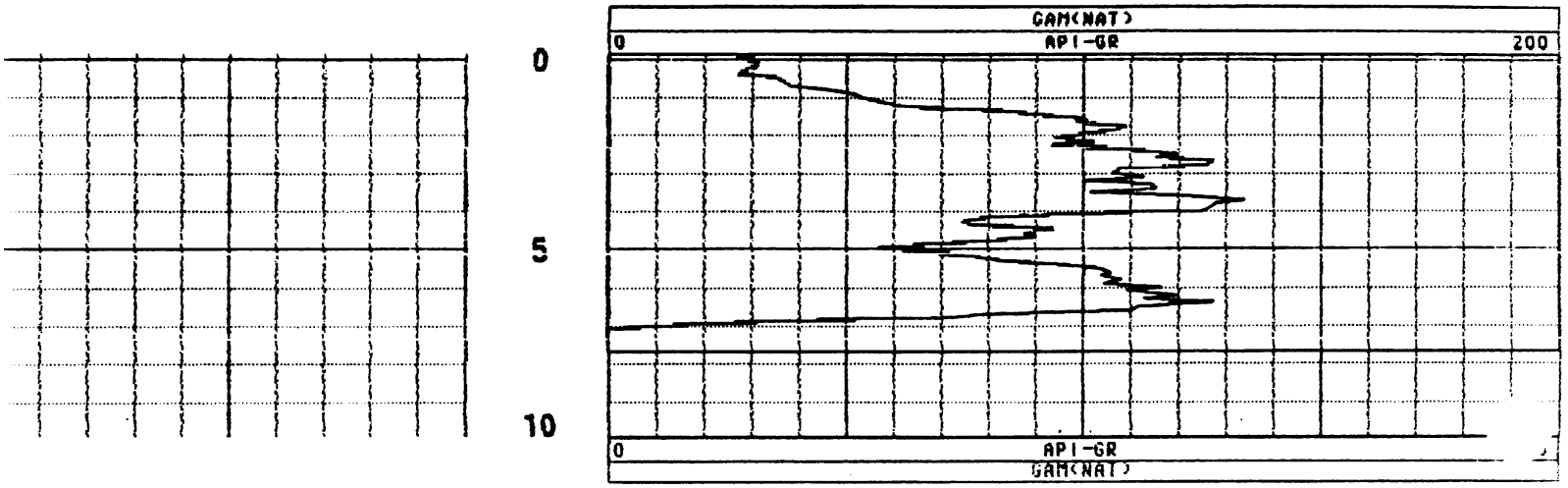
API-GR
200
GAM(NAT)

Century GEOPHYSICAL CORP.

RCP1SB1

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: RCP1SB1				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 11/12/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 8	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 7.70	LOG MEASURED FROM	: G.L.	DF	:
LOG TOP	: -1.30	DRL MEASURED FROM	: G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT YASEK		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9010A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 0
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: 9010A 0
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH	: 500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS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5
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GAM(NAT)
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API-GR
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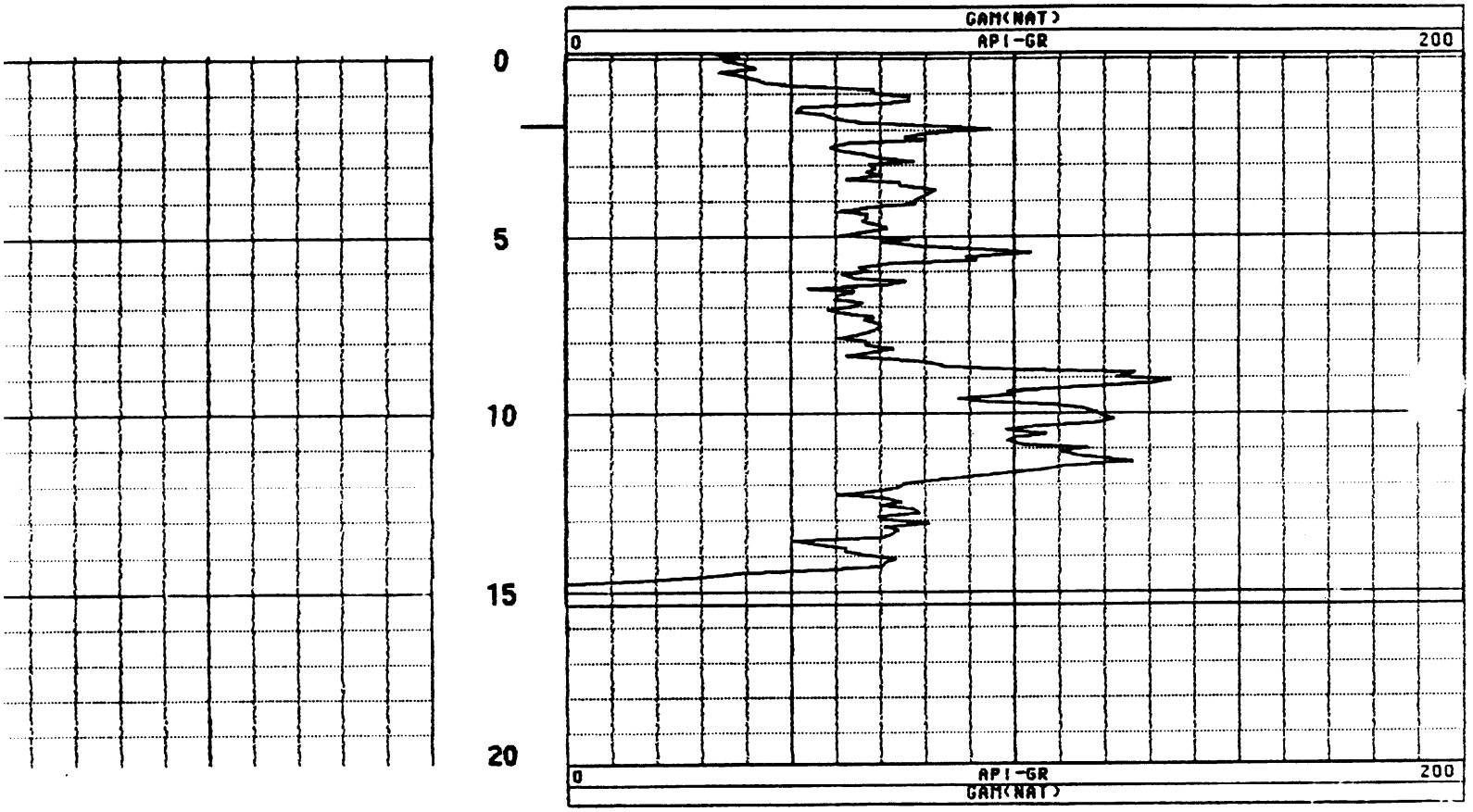
API-GR
GAM(NAT)

Century GEOPHYSICAL CORP.

I24.2SB2

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: I24.2SB2				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 11/12/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 16	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 15.40	LOG MEASURED FROM	: G.L.	DF	:
LOG TOP	: -0.90	DRL MEASURED FROM	: G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT YASEK		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9010A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 0
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: 9010A 0
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH	: 500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


GAM(NAT)
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API-GR
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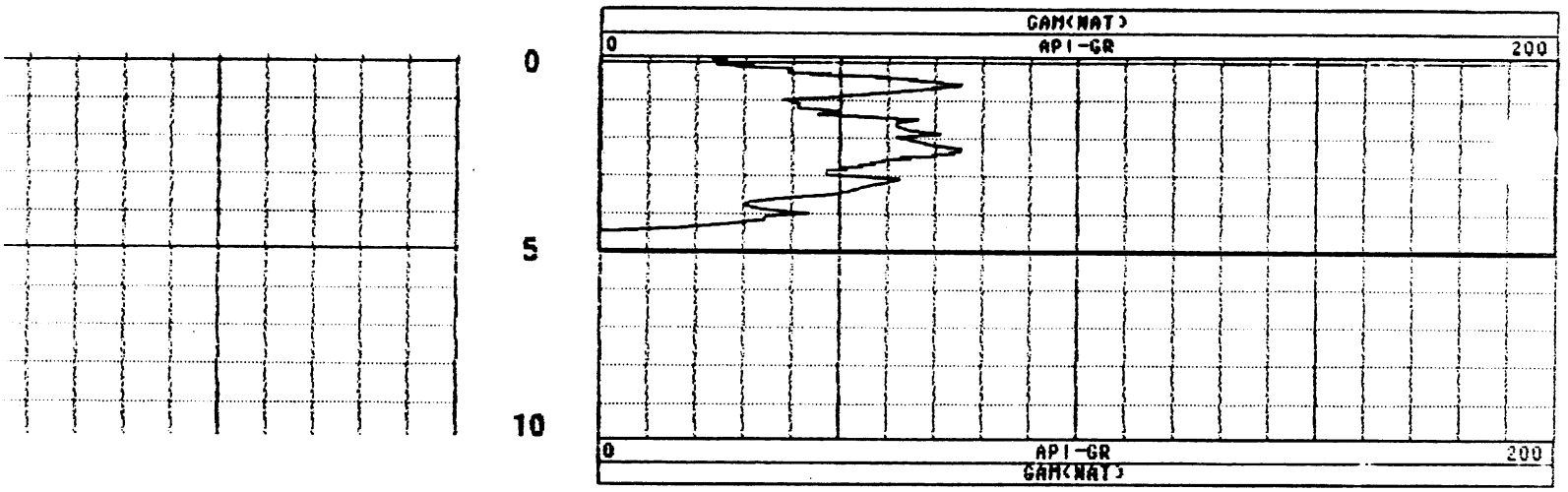
API-GR
200
GAM(NAT)

Century GEOPHYSICAL CORP.

S32.5SB2

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: S32.5SB2				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 11/16/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	.	ELEV. PERM. DATUM:		KB	.
LOG BOTTOM	: 9.18	LOG MEASURED FROM:	G.L.	DF	:
LOG TOP	: -0.60	DRL MEASURED FROM:	G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT YASEK		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9010A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 1
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: 90180 0
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH:	500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


0
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GAM(NAT)
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API-GR
200
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API-GR
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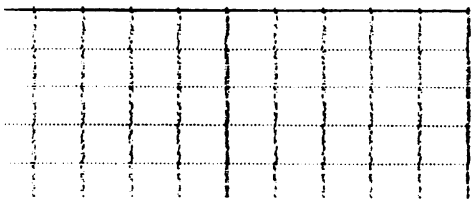
GAM(NAT)

Century GEOPHYSICAL CORP.

S32.6SB1

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: S32.6SB1				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 11/16/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	:	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	4.00	LOG MEASURED FROM:	G.L.	DF	:
LOG TOP	: -0.10	DRL MEASURED FROM:	G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT YASEK		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: PROCESSED
MAGNETIC DECL.	:	RM	:	TYPE	: 90100A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 2
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: 90100 0
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH:	500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



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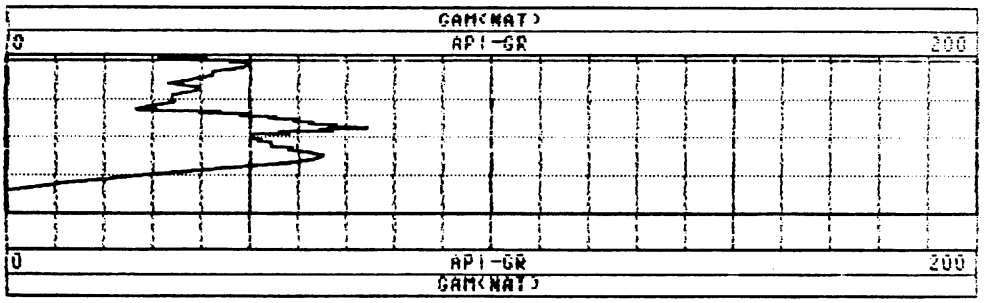
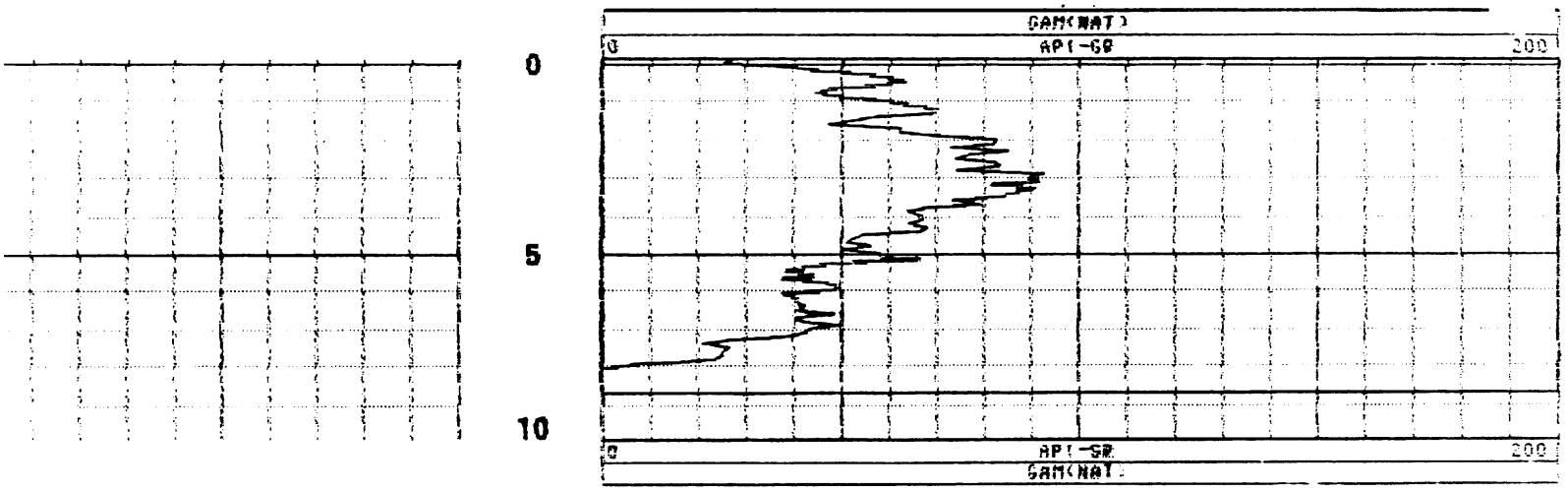


Century GEOPHYSICAL CORP.

I24.11SB4

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: I24.11SB4				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 11/16/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	:	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 8.70	LOG MEASURED FROM	: G.L.	DF	:
LOG TOP	: 1.20	DRL MEASURED FROM	: G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT VASER		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL	:	RM	:	TYPE	: 9010A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 0
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: 9010A 0
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH	: 500000
REMARKS					

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS.


GAM(NAT)
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API-GR
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API-GR
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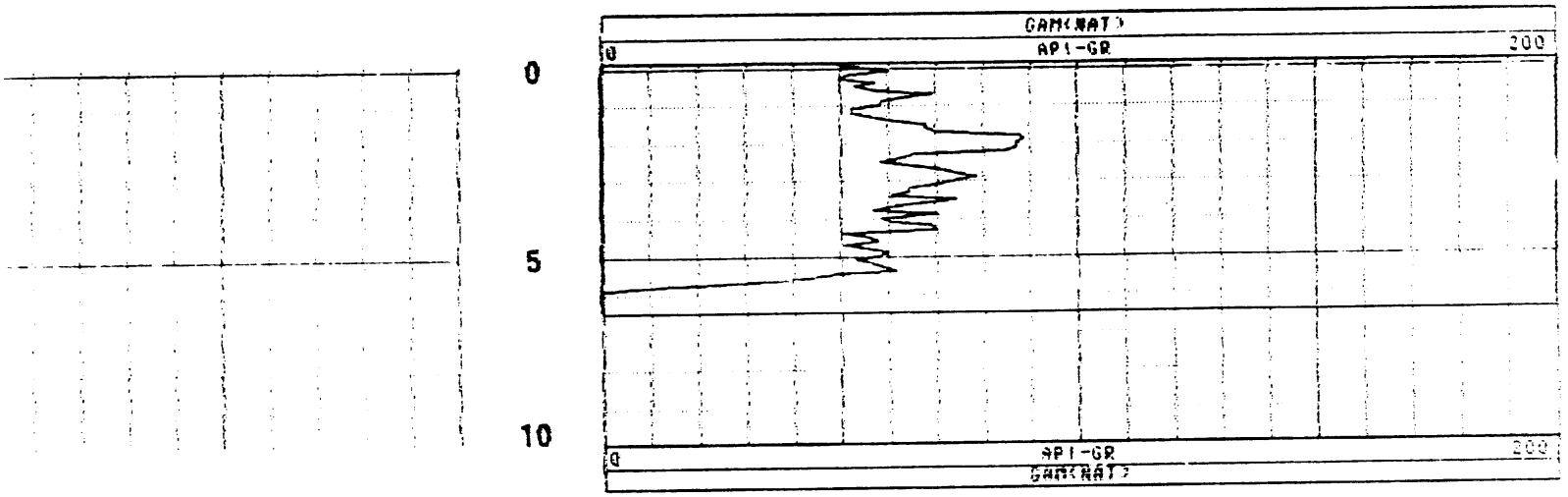
GAM(NAT)

Century GEOPHYSICAL CORP.

S32.5SB1

COMPANY	: ENGINEERING SCIENCE		OTHER SERVICES:
WELL	: S32.5SB1		
LOCATION/FIELD	: TINKER AFB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION	:	TOWNSHIP :	RANGE
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
LOG DATUM	[illegible]	LOG MEASURED FROM	[illegible]
LOG TOP	[illegible]	DRL MEASURED FROM	[illegible]
CASING DRILLER		LOGGING UNIT	[illegible]
CASING TYPE		FIELD OFFICE	LAS VEGAS
CASING THICKNESS		RECORDED BY	ROBERT VASEN
B.I. SIZE	8	BOREHOLE FLUID	[illegible]
MAGNETIC DECL.		RM	[illegible]
[illegible]		RM [illegible]	[illegible]
[illegible]		[illegible]	[illegible]
MEDIUM MATRIX		[illegible]	[illegible]
REMARKS			

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS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GAMCNAT
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API-GR
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API-GR
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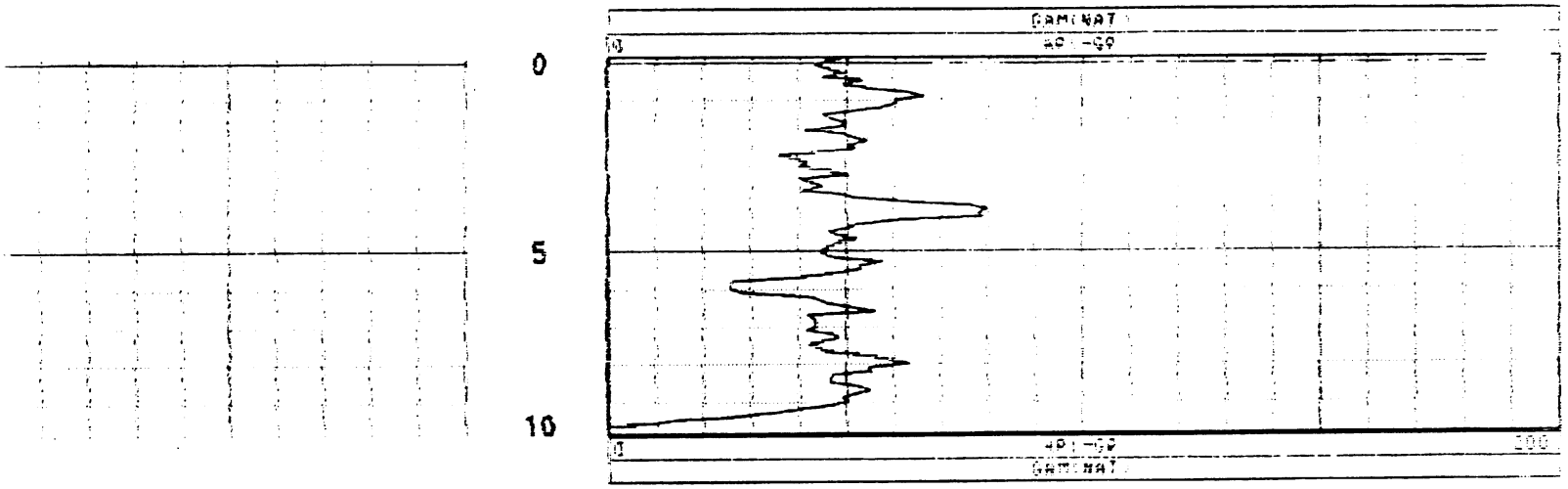
GAMCNAT

Century GEOPHYSICAL CORP.

124.11SB1

COMPANY	: ENGINEERING SCIENCE	OTHER SERVICES:	
WELL	: 124 11SB1		
LOCATION/FIELD	: TINKER AFB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION		TOWNSHIP	RANGE
DATE	[illegible]	PERMANENT DATUM	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
CASING [illegible]		LOGGING UNIT	[illegible]
[illegible]		FIELD OFFICE	[illegible]
[illegible]		RECORDED BY	[illegible]
BIT SIZE	[illegible]	BOREHOLE FLUID	FILE : ORIGINAL
MAGNETIC DEC.		RM	[illegible]
MATRIX DENSITY		RM TEMPERATURE	LOC. : [illegible]
[illegible]		MATRIX [illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]			

[illegible]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GAM(NAT)
HP(-GP)
GAM(NAT)

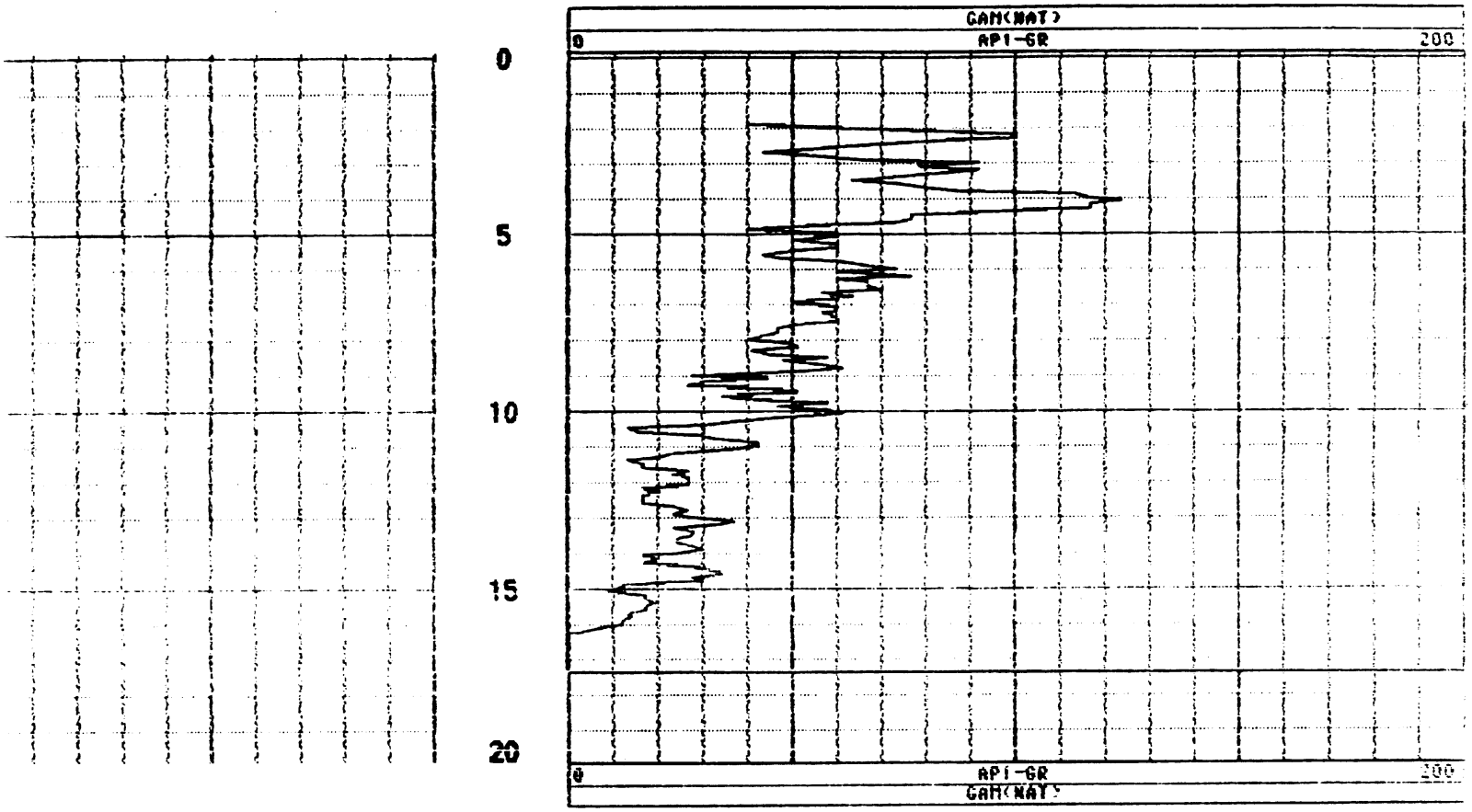
CGC

Century GEOPHYSICAL CORP.

S32.4SB3

COMPANY	: ENGINEERING SCIENCE		OTHER SERVICES:
WELL	: S32.4SB3		
LOCATION/FIELD	: TINKER AFB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION		TOWNSHIP :	RANGE :
DATE	: 10/20/93	PERMANENT DATUM :	ELEVATIONS
DEPTH DRILLER	: 18	ELEV. PERM. DATUM:	KB :
LOG BOTTOM	: 17.40	LOG MEASURED FROM: G.L.	DF :
LOG TOP	: 2.00	DRL MEASURED FROM: G.L.	GL :
CASING DRILLER	:	LOGGING UNIT : 9302	
CASING TYPE	:	FIELD OFFICE : LAS VEGAS	
CASING THICKNESS	:	RECORDED BY : ROBERT YASEK	
BIT SIZE	: 6	BOREHOLE FLUID :	FILE : ORIGINAL
MAGNETIC DECL.	:	RM :	TYPE : 90600
MATRIX DENSITY	:	RM TEMPERATURE :	LOG : 0
FLUID DENSITY	:	MATRIX DELTA T :	PLOT : TINKER 1
NEUTRON MATRIX	:	FLUID DELTA T :	THRESH: 500000
REMARKS	:		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


GAM(NAT)
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API-GR
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API-GR
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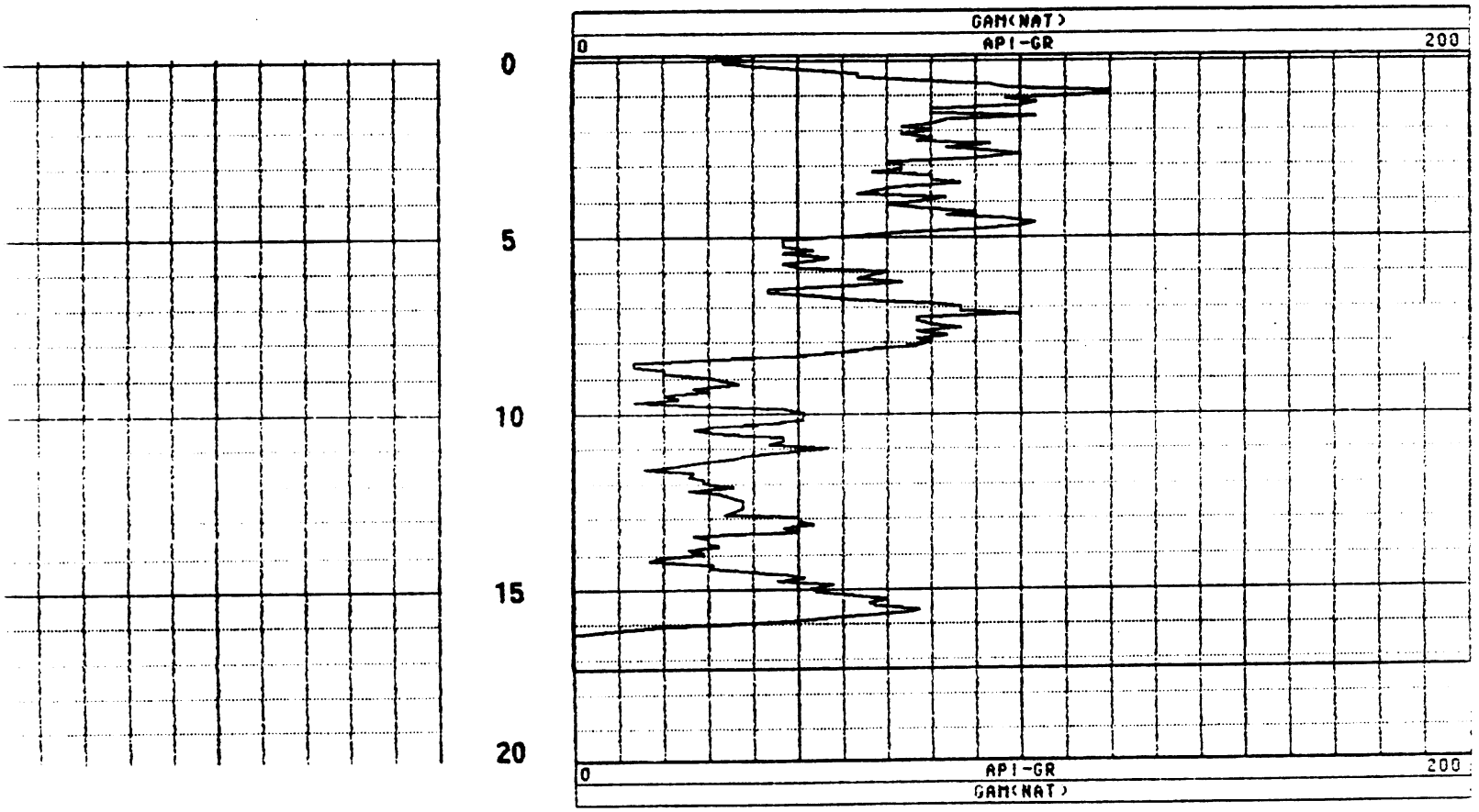
GAM(NAT)

Century GEOPHYSICAL CORP.

S32.4SB4

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: S32.4SB4				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 10/21/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 18	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 17.30	LOG MEASURED FROM	: G.L.	DF	:
LOG TOP	: -0.60	DRL MEASURED FROM	: G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT VOSER		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9060A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 0
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: TINKER
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH	: 500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS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GAM(NAT)
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API-GR
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API-GR
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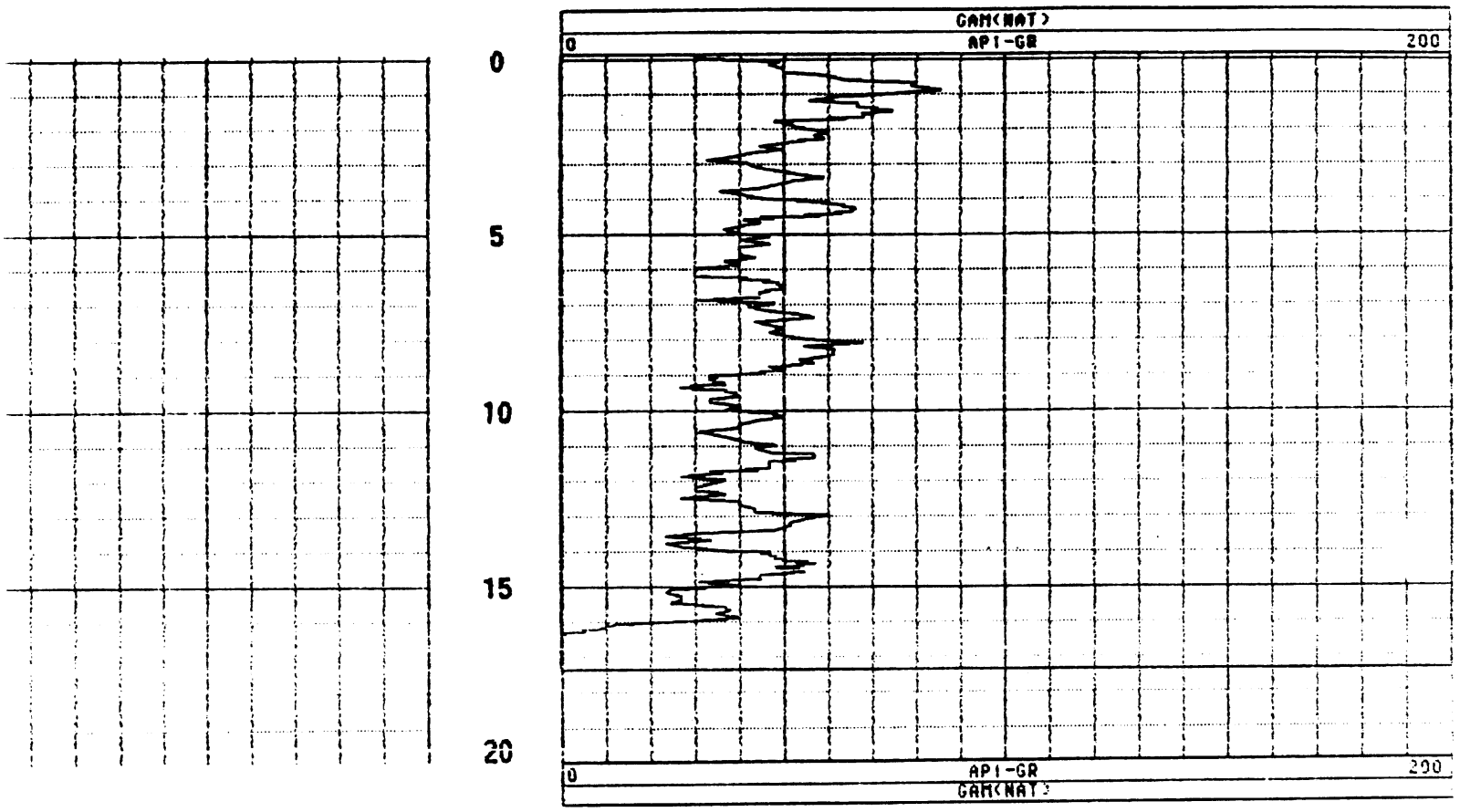
GAM(NAT)

Century GEOPHYSICAL CORP.

I24.8SB1

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: I24.8SB1				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 10/22/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 18	ELEV. PERM. DATUM:		KB	.
LOG BOTTOM	: 17.40	LOG MEASURED FROM:	G.L.	DF	:
LOG TOP	: -0.10	DRL MEASURED FROM:	G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT VOSER		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 90000
MATRIX DENSITY	.	RM TEMPERATURE	.	LOG	: 2
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: TINKER 5
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH:	500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS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API-GR
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GAM(NAT)

Century GEOPHYSICAL CORP.

124.12SB1

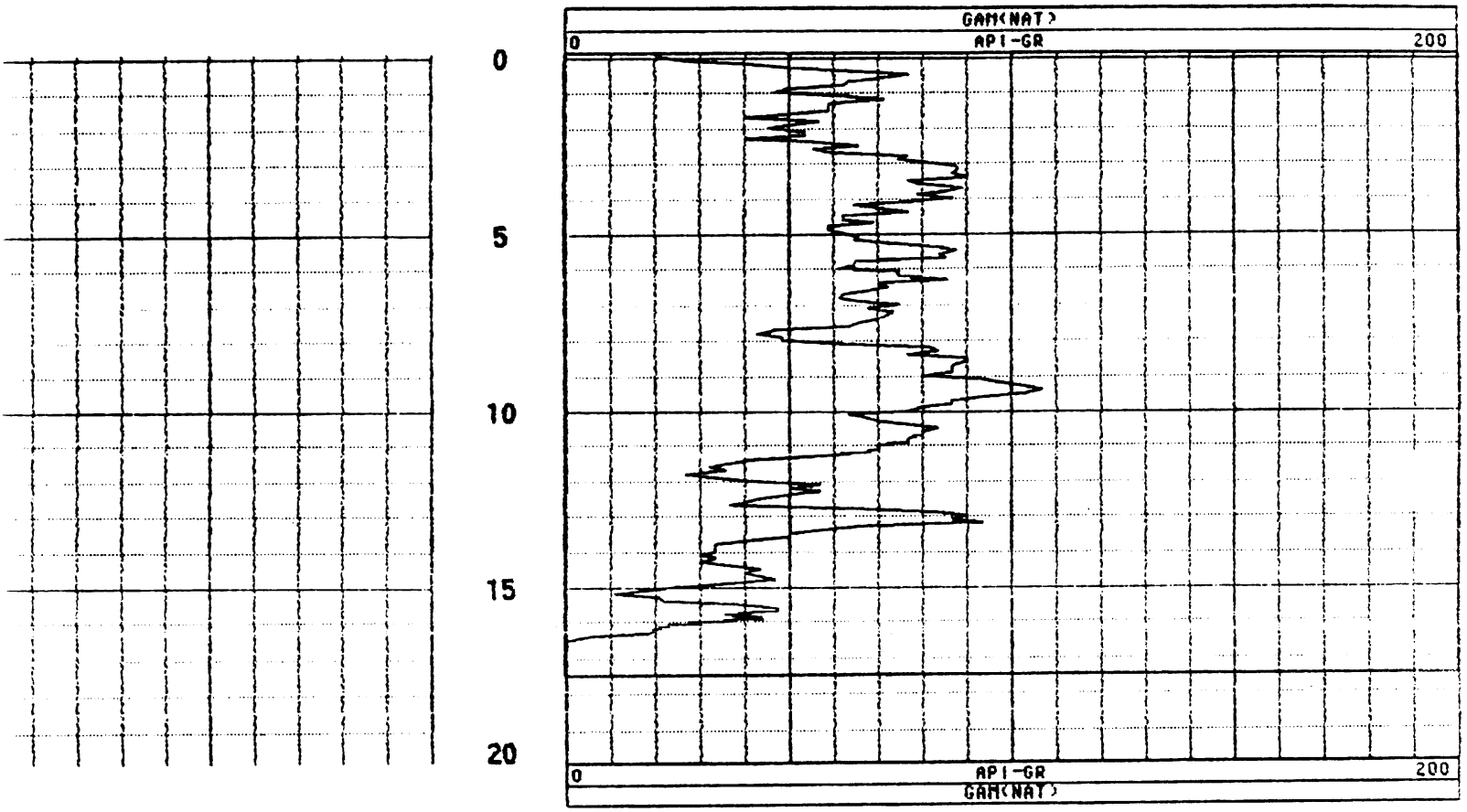
COMPANY	: ENGINEERING SCIENCE	OTHER SERVICES:	
WELL	: 124.12SB1		
FIELD	: TINKER [illegible]		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION	:	TOWNSHIP :	RANGE :

DATE	: 10/22/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 18	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 17.50	LOG MEASURED FROM:	G.L.	DF	:
LOG TOP	: -0.20	DRL MEASURED FROM:	G.L.	GL	:

CASING DRILLER	:	LOGGING UNIT	: 9302
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS
CASING THICKNESS	:	RECORDED BY	: ROBERT VASER

BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9860A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 6
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: TINKER 3
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH	: 500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS.


GAM(NAT)
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API-GR
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API-GR
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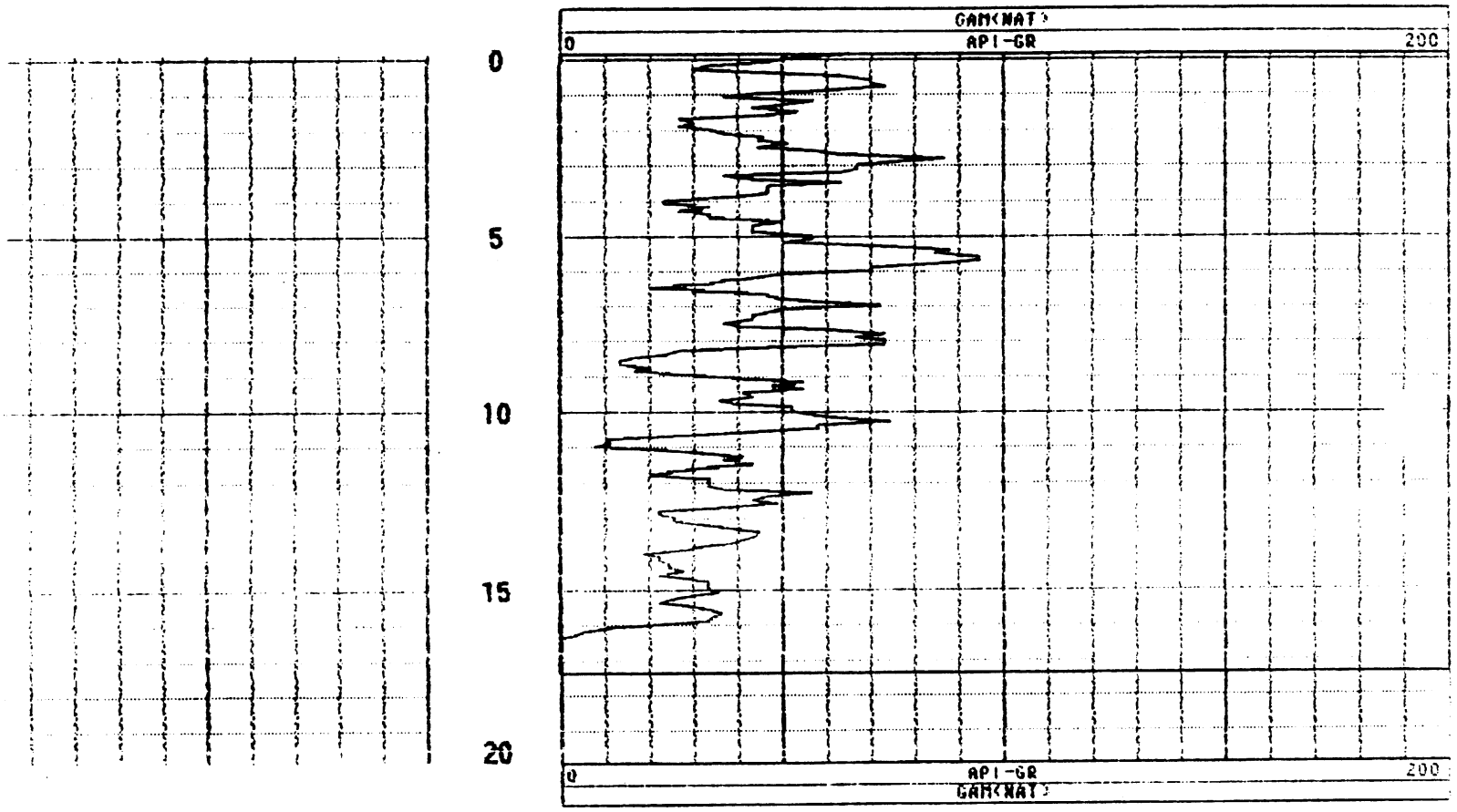
GAM(NAT)

Century GEOPHYSICAL CORP.

S32.4SB5

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: S32.4SB5				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 10/22/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 18	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 17.40	LOG MEASURED FROM	: G.L.	DF	:
LOG TOP	: -0.50	DRL MEASURED FROM	: G.L.	GL	:
CASING DRILLER	:	LOGGING UNIT	: 9302		
CASING TYPE	:	FIELD OFFICE	: GAS VEGAS		
CASING THICKNESS	:	RECORDED BY	: ROBERT VASEL		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9060A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 1
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: TINKER 1
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH	: 500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS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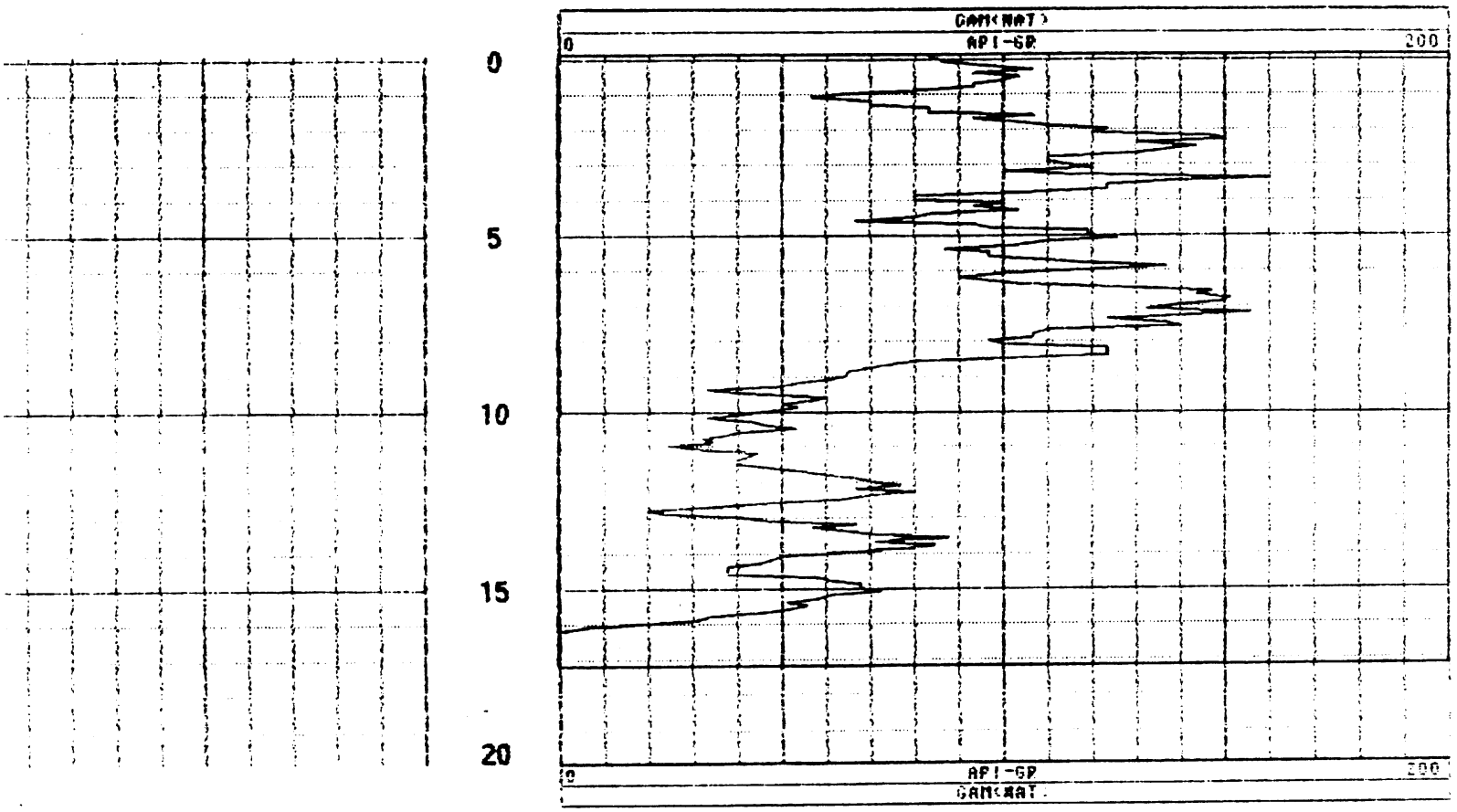
GAM(NAT)

Century GEOPHYSICAL CORP.

S32.3SB2

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: S32.3SB2				
LOCATION/FIELD	: TINKER [illegible]				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 10/22/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 18	ELEV. PERM. DATUM:		KB	
LOG BOTTOM	: 17.20	LOG MEASURED FROM:	G.L.	DF	
LOG TOP	: 2.10	DRL MEASURED FROM:	G.L.	GL	
CASING DRILLER	:	LOGGING UNIT	: 9302		
CASING TYPE	:	FIELD OFFICE	: [illegible]		
CASING THICKNESS	:	RECORDED BY	: [illegible]		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL	:	RM	:	TYPE	: [illegible]
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: [illegible]
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: TINKER 1
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH:	500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


GAM(NAT)
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API-GR
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API-GR
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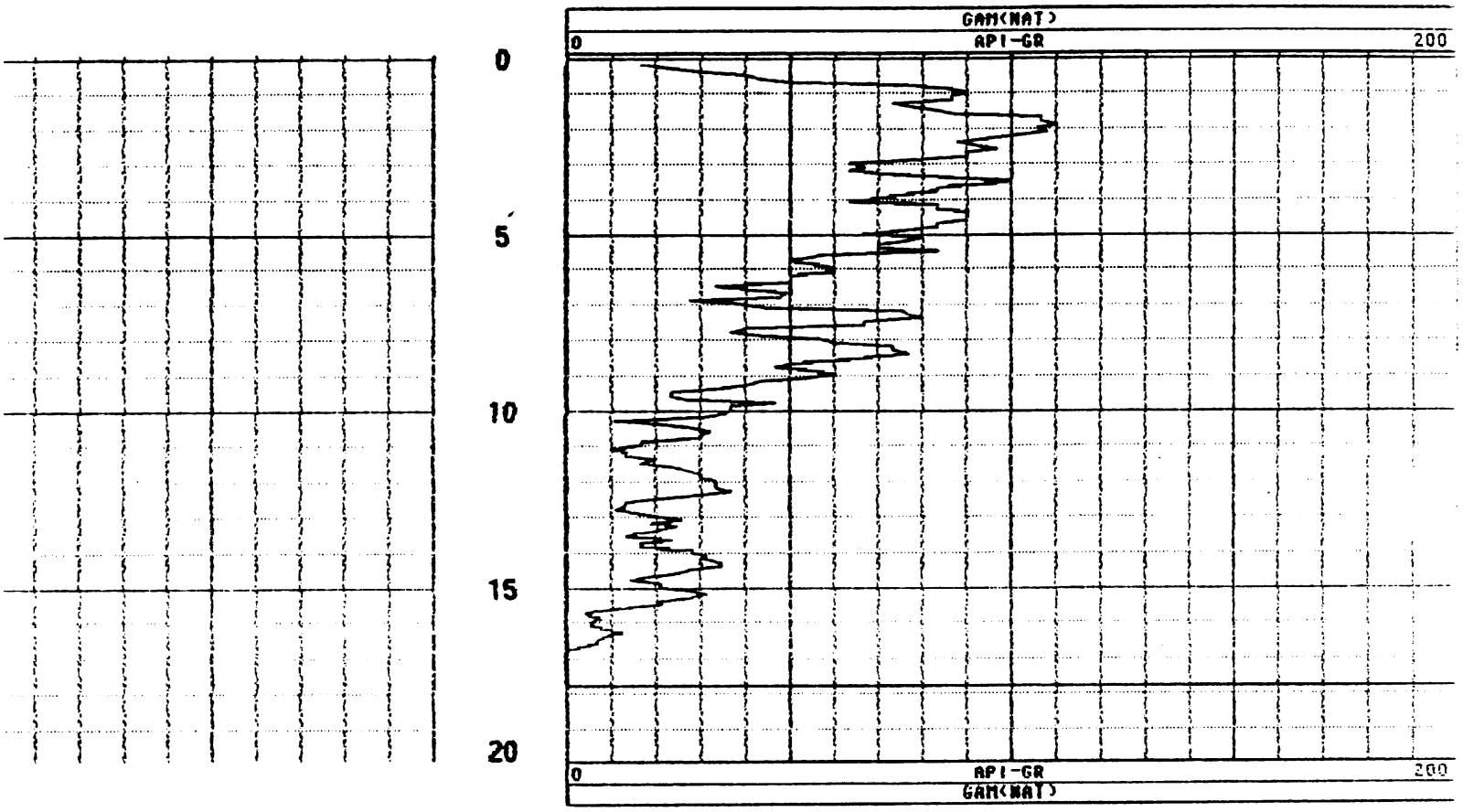
GAM(NAT)

Century GEOPHYSICAL CORP.

S32.4SB2

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: S32.4SB2				
LOCATION/FIELD	: TINKER OTB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 10/21/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 18	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 17.80	LOG MEASURED FROM:	G.L.	DF	:
LOG TOP	: 0.30	DRL MEASURED FROM:	G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS:		RECORDED BY	: ROBERT VOGEL		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 20600
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 1
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: TINKER 1
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH:	500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


GAM(NAT)
0
API-GR
200
0
5
10
15
20
0
API-GR
200
GAM(NAT)

Century GEOPHYSICAL CORP.

124.12SB2

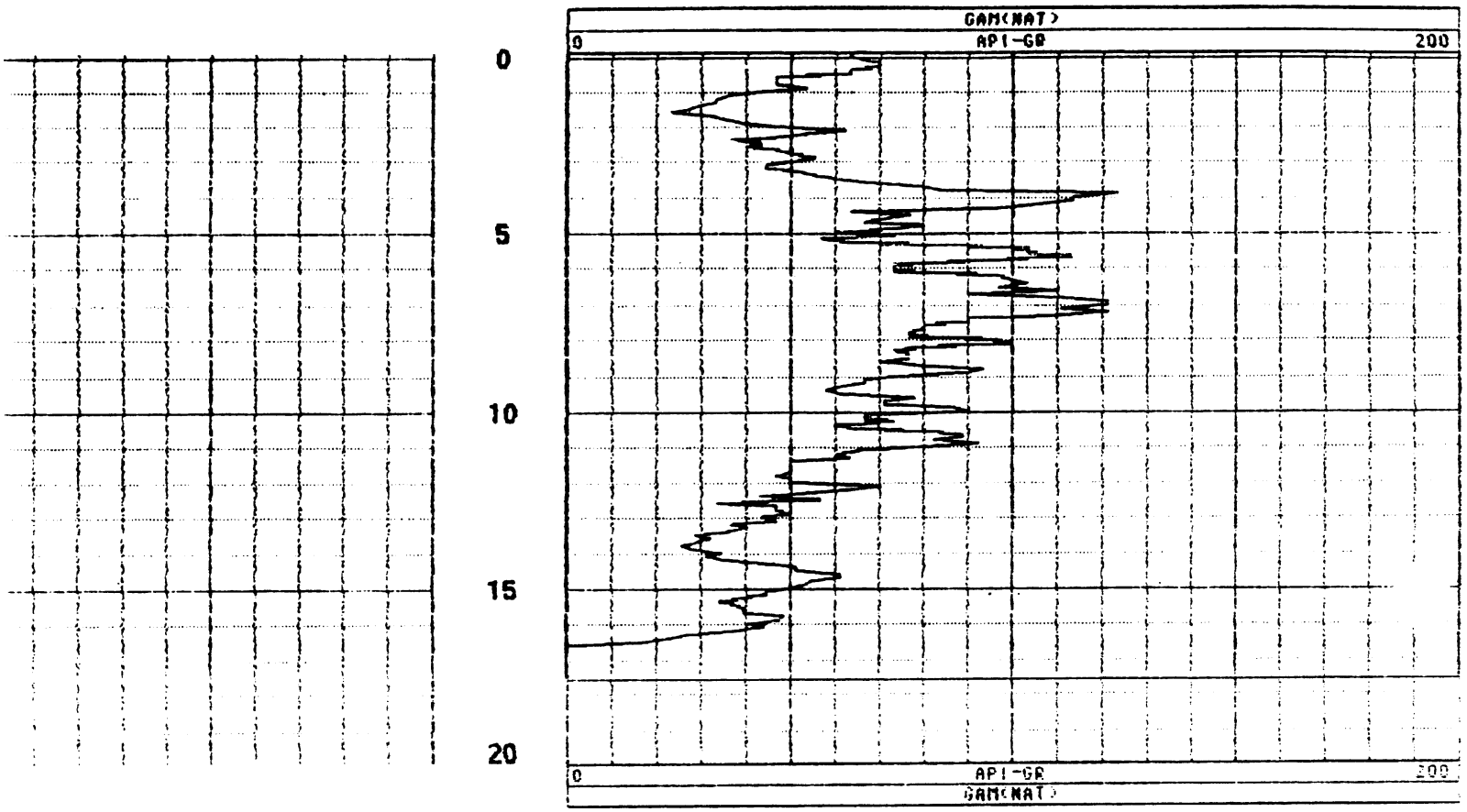
COMPANY	: ENGINEERING SCIENCE		OTHER SERVICES:
WELL	: 124.12SB2		
LOCATION/FIELD	: TINKER AFB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION	:	TOWNSHIP :	RANGE :

DATE	: 10/25/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 18	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 17.68	LOG MEASURED FROM:	G.L.	DF	:
LOG TOP	: -0.40	DRL MEASURED FROM:	G.L.	GL	:

CASING DRILLER	: -	LOGGING UNIT	: 9382
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS
CASING THICKNESS:		RECORDED BY	: ROBERT WASER

BIT SIZE	: 6	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: DWG60
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 1
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: TIMED :
NEUTRON MATRIX	:	FLUID DELTA T	:	CHECK:	5000004
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

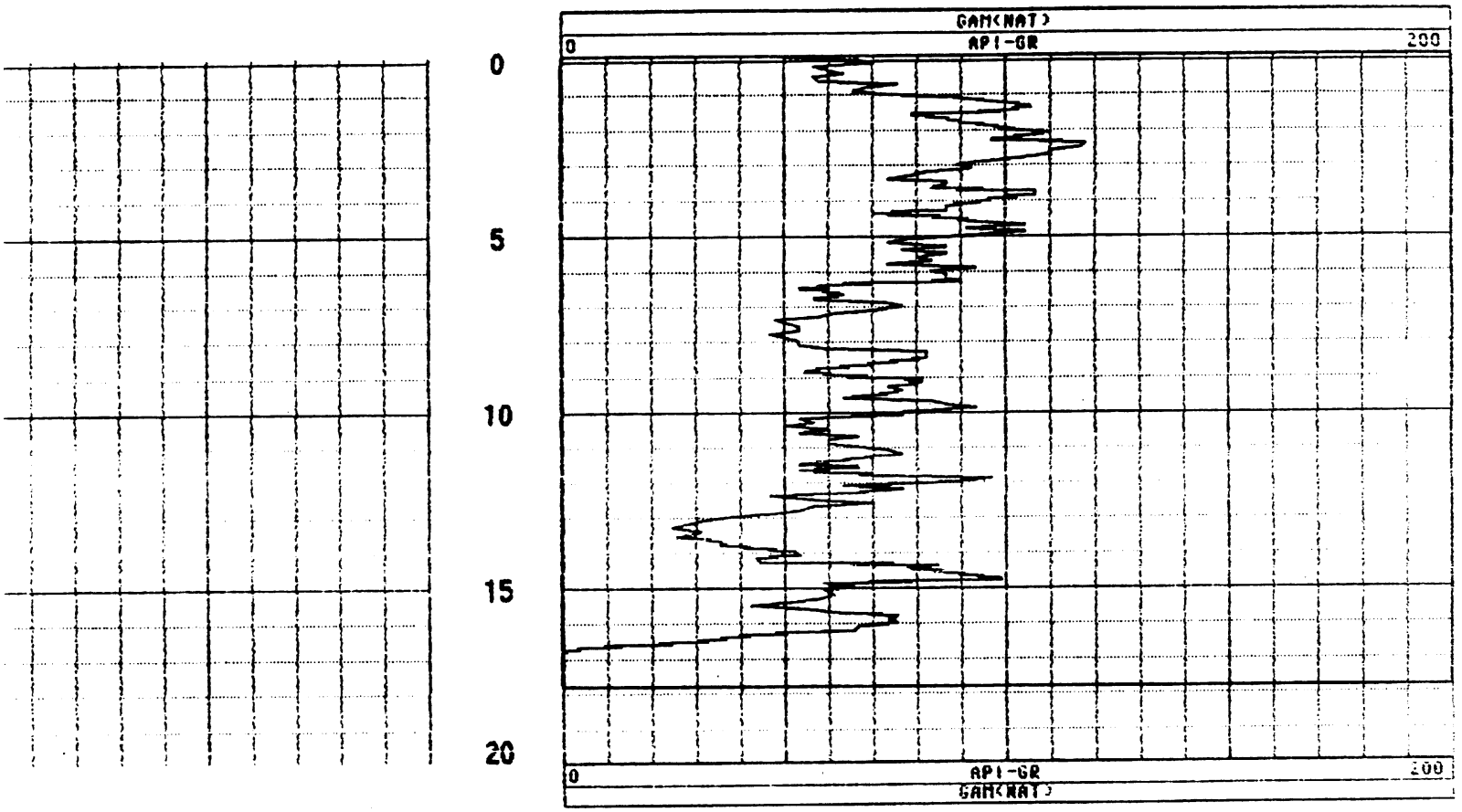

GAM(NAT)
0
API-GR
200
0
5
10
15
20
0
API-GR
200
GAM(NAT)

Century GEOPHYSICAL CORP.

I24.12SB3

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: I24.12SB3				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 10/25/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 18	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 17.08	LOG MEASURED FROM:	G.L.	DF	:
LOG TOP	: 0.50	DRL MEASURED FROM:	G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS:		RECORDED BY	: ROBERT VASEK		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9060A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 4
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: LINEAR :
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH:	500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


GAM(NAT)
0
API-GR
200
0
5
10
15
20
0
API-GR
200
GAM(NAT)

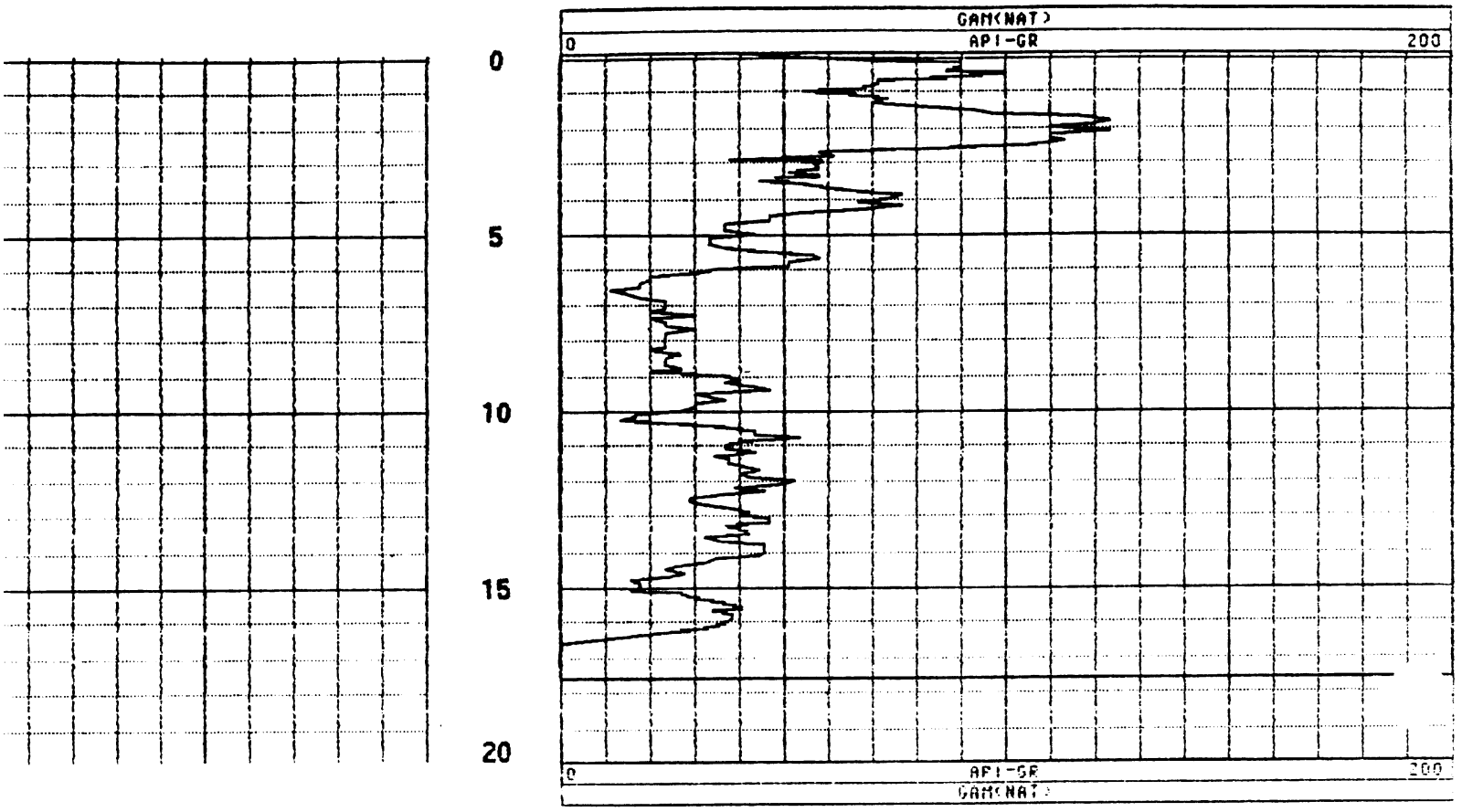
Century GEOPHYSICAL CORP.

I24.10SB1

COMPANY	: ENGINEERING SCIENCE		
WELL	: I24.10SB1		
LOCATION/FIELD	: TINKER AFB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION	:	TOWNSHIP :	RANGE :
DATE	: 10/25/93	PERMANENT DATUM :	ELEVATIONS
DEPTH DRILLER	: 18	ELEV. PERM. DATUM:	KB :
LOG BOTTOM	: 17.60	LOG MEASURED FROM: G.L.	DF :
LOG TOP	: -0.20	DRL MEASURED FROM: G.L.	GL :
CASING DRILLER	: -	LOGGING UNIT : 9302	
CASING TYPE	: -	FIELD OFFICE : LAS VEGAS	
CASING THICKNESS	: -	RECORDED BY : ROBERT VASEK	
BIT SIZE	: 8	BOREHOLE FLUID :	FILE : ORIGINAL
MAGNETIC DECL.	:	RM :	TYPE : 9060A
MATRIX DENSITY	:	RM TEMPERATURE :	LOG : 3
FLUID DENSITY	:	MATRIX DELTA T :	PLOT : TINKER 1
NEUTRON MATRIX	:	FLUID DELTA T :	THRESH: 500000
REMARKS	:		

OTHER SERVICES:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

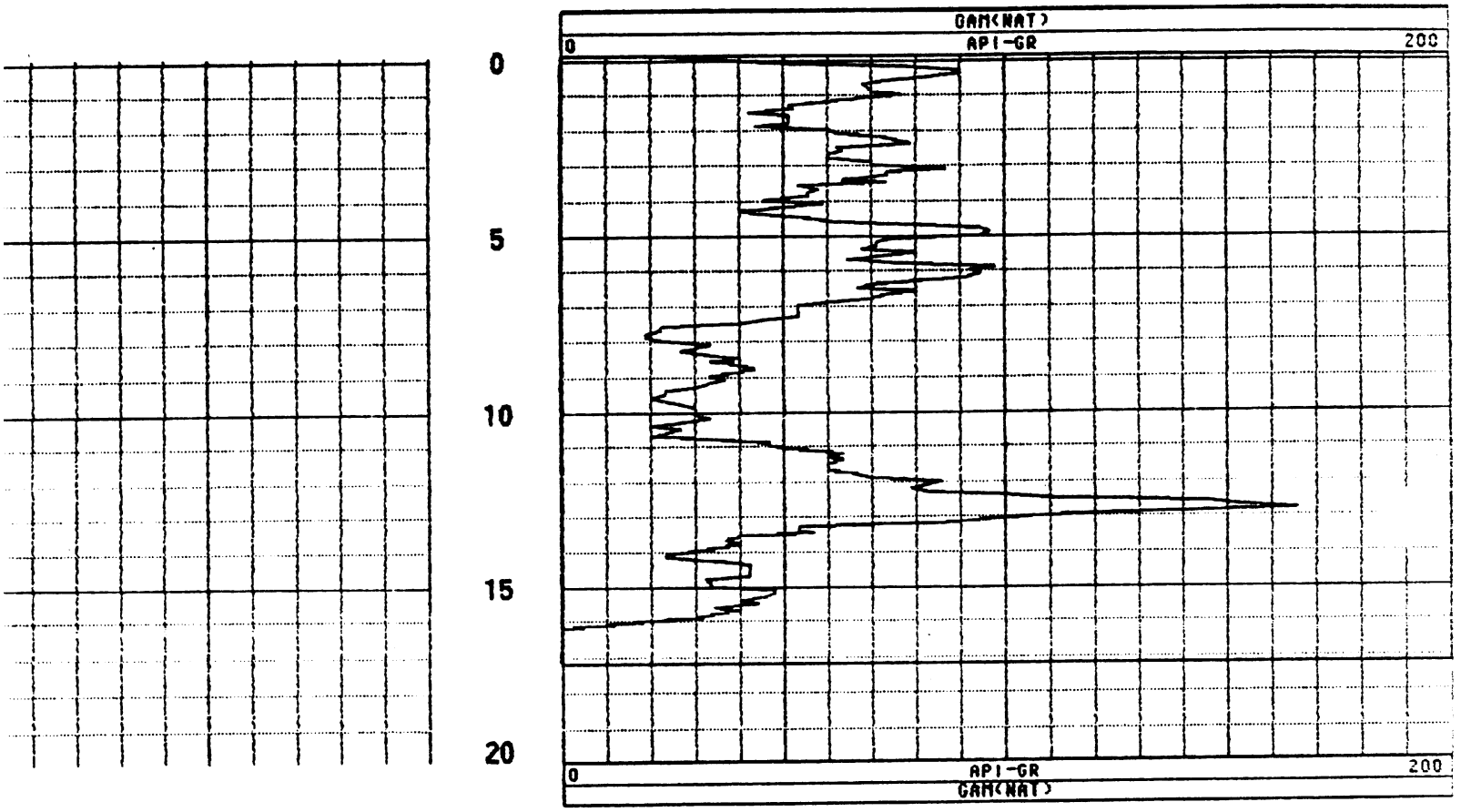

GAM(NAT)
0
API-GR
200
0
5
10
15
20
0
API-GR
200
GAM(NAT)

Century GEOPHYSICAL CORP.

I24.10SB2

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: I24.10SB2				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 10/25/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 18	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 17.20	LOG MEASURED FROM	: G.L.	DF	:
LOG TOP	: -0.50	DRL MEASURED FROM	: G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT YASEK		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9060A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 4
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: TINKER 3
NEUTRON MATRIX	:	FLUID DELTA T	:	THRSH	: 500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


GAM(NAT)
0
API-GR
200
0
5
10
15
20
0
API-GR
200
GAM(NAT)

Century GEOPHYSICAL CORP.

I24.12SB4

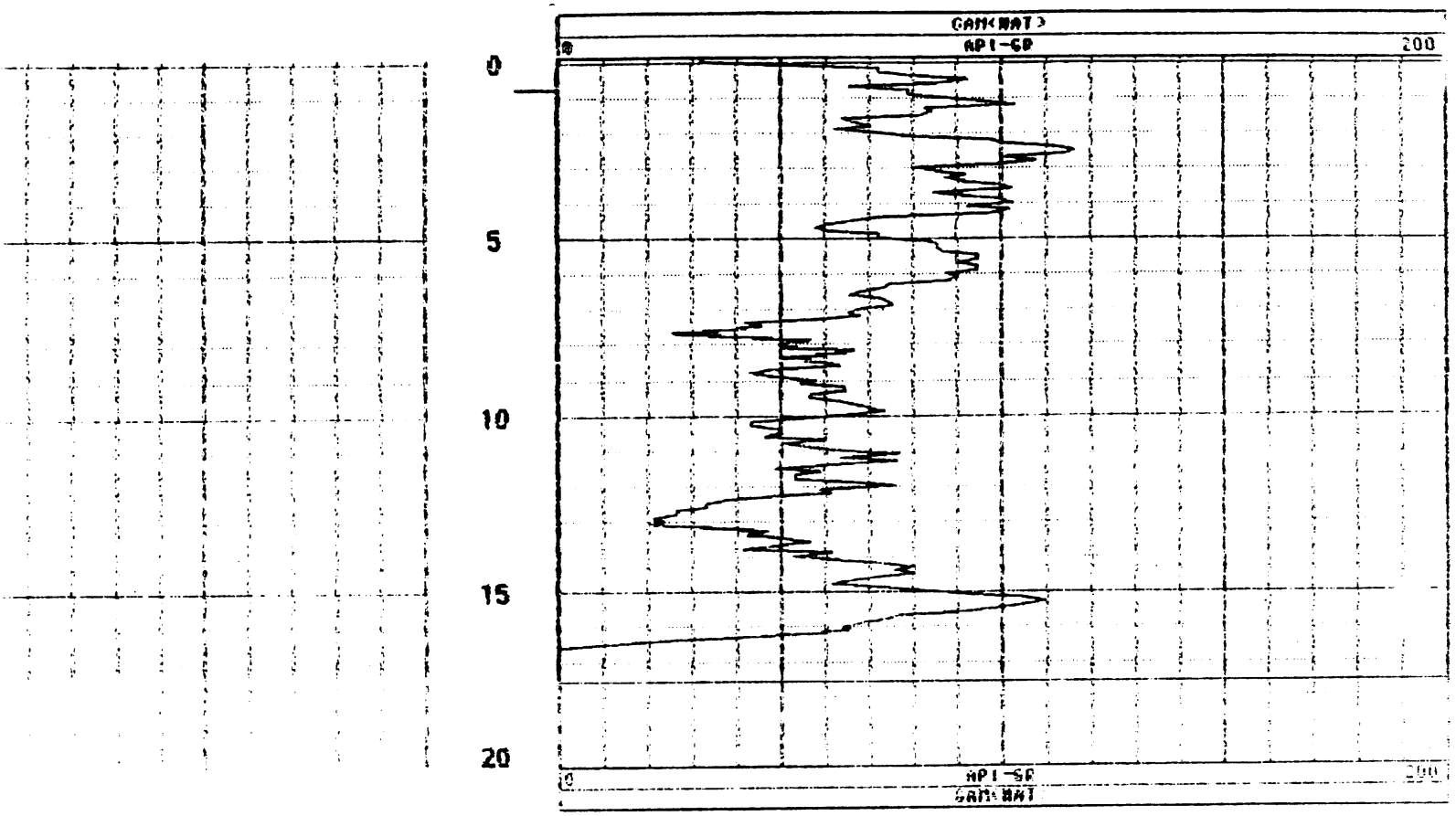
COMPANY	: ENGINEERING SCIENCE	OTHER SERVICES:	
WELL	: I24.12SB4		
LOCATION/FIELD	: TINKER AFB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION		TOWNSHIP	RANGE

DATE	: [illegible]	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: [illegible]	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: [illegible]	LOG MEASURED FROM:	G.L.	DF	:
LOG TOP	: -0.80	DRL MEASURED FROM:	G.L.	GL	:

CASING DRILLER	:	LOGGING UNIT	: 9302
CASING TYPE	:	FIELD OFFICE	: LAS VEGAS
CASING THICKNESS:		RECORDED BY	: [illegible]

BIT SIZE	: [illegible]	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM		TYPE	: [illegible]
MATRIX DENSITY	:	RM TEMPERATURE	:	[illegible]	: [illegible]
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: TINKER [illegible]
NEUTRON MATRIX	:	FLUID DELTA T	:	THREAD	: [illegible]
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


GAM<NAT>
API-GR
200
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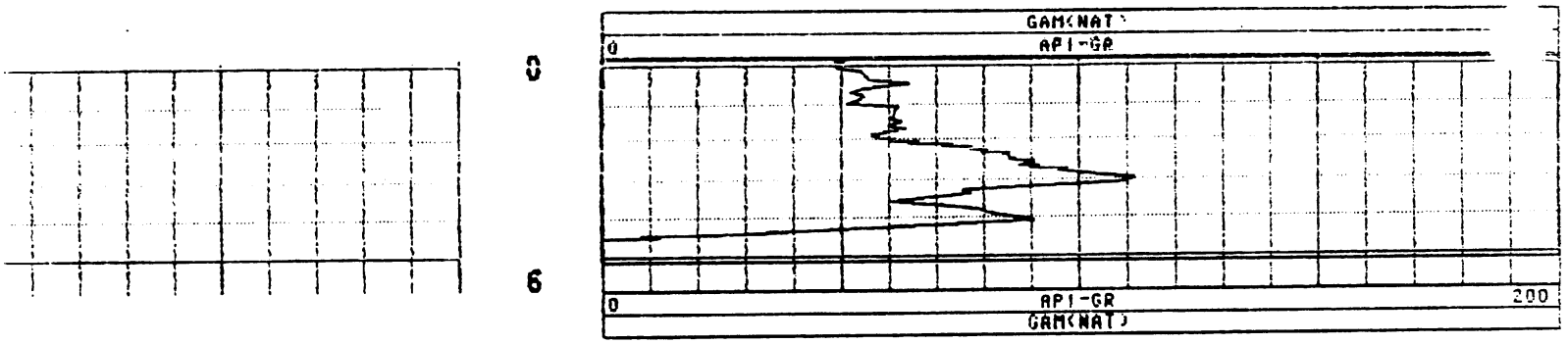
5
10
15
20
API-GR
GAM<NAT

Century GEOPHYSICAL CORP.

I24.9SB2

COMPANY	: ENGINEERING SCIENCE	OTHER SERVICES:	
WELL	: I24.9SB2		
LOCATION/FIELD	: TINKER AFB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION	:	TOWNSHIP :	RANGE :
DATE	: 10/26/93	PERMANENT DATUM :	ELEVATIONS
DEPTH DRILLER	: ~~10~~ 6.5	ELEV. PERM. DATUM:	KB :
LOG BOTTOM	: 5.20	LOG MEASURED FROM: G.L.	DF :
LOG TOP	: -1.20	DRL MEASURED FROM: G.L.	GL :
CASING DRILLER	: -	LOGGING UNIT : 9302	
CASING TYPE	: -	FIELD OFFICE : LAS VEGAS	
CASING THICKNESS	: -	RECORDED BY : ROBERT YOSER	
BIT SIZE	: 8	BOREHOLE FLUID :	FILE : ORIGINAL
MAGNETIC DECL.	:	RM :	TYPE : 90100
MATRIX DENSITY	:	RM TEMPERATURE :	LOG : 1
FLUID DENSITY	:	MATRIX DELTA T :	PLOT : TINKER
NEUTRON MATRIX	:	FLUID DELTA T :	TIME: 500000
REMARKS	:		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

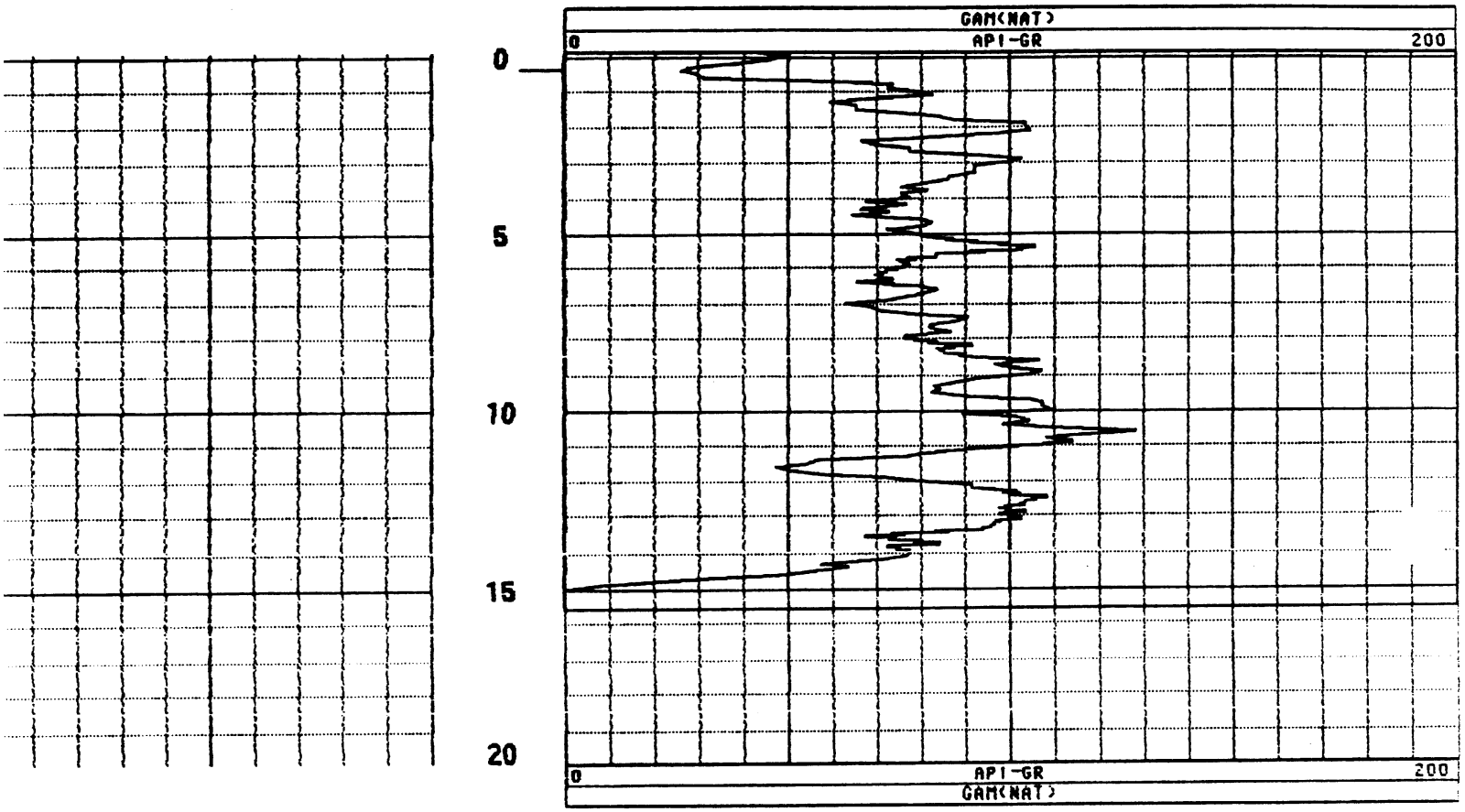

GAM(NAT)
0
API-GR
0
6
0
API-GR
200
GAM(NAT)

Century GEOPHYSICAL CORP.

S32.1SB2

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: S32.1SB2				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 10/26/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 18	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 15.60	LOG MEASURED FROM	: G.L.	DF	:
LOG TOP	: -1.10	DRL MEASURED FROM	: G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT YASEK		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9010A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 0
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: TINKER 1
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH	: 500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

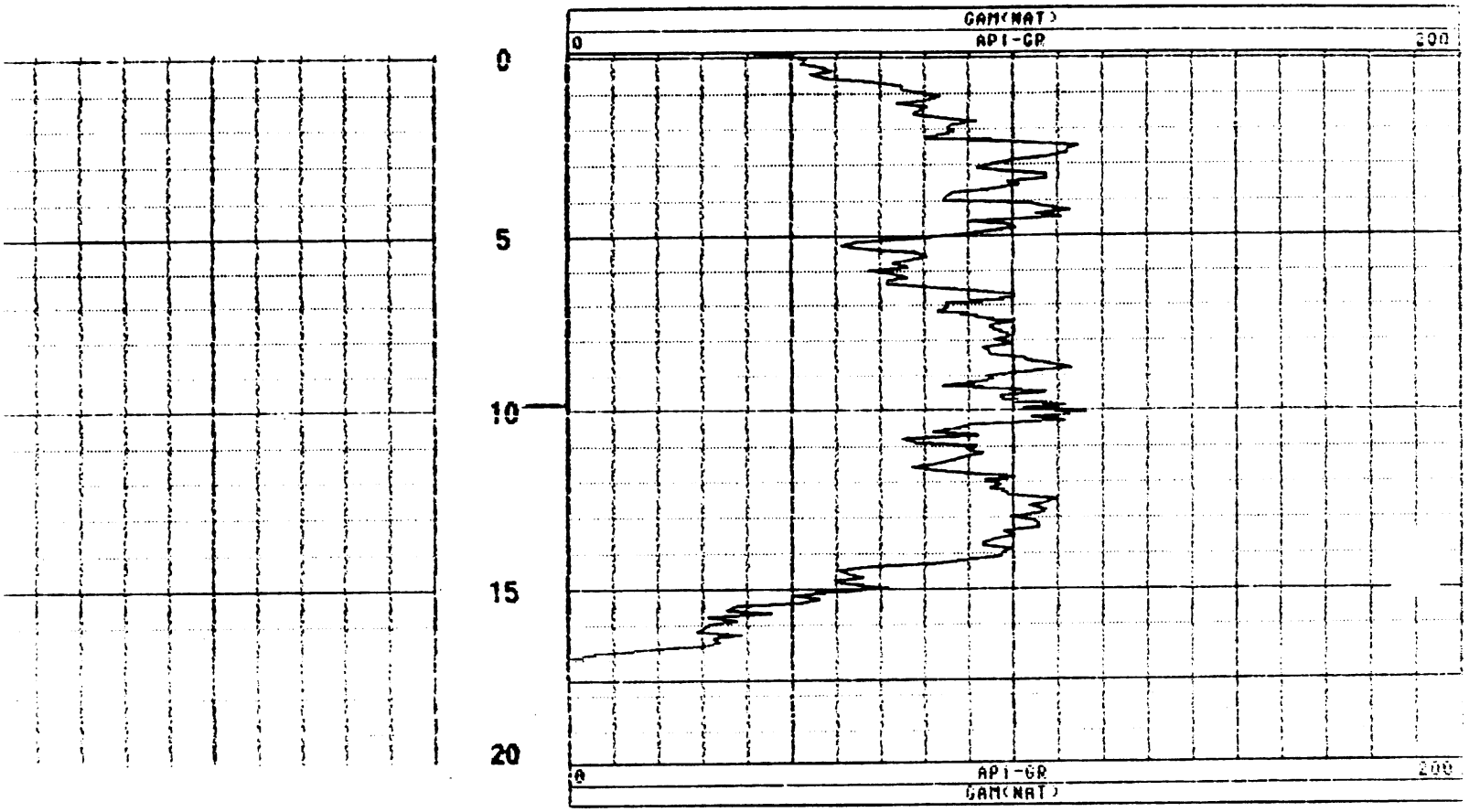

GAM(NAT)
0
API-GR
200
0
5
10
15
20
0
API-GR
200
GAM(NAT)

Century GEOPHYSICAL CORP.

S32.2SB3

COMPANY	: ENGINEERING SCIENCE		OTHER SERVICES:
WELL	: S32.2SB3		
LOCATION/FIELD	: TINKER AFB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION	:	TOWNSHIP :	RANGE :
DATE	: 10/27/93	PERMANENT DATUM :	ELEVATIONS
DEPTH DRILLER	: 68	ELEV. PERM. DATUM.	KB
LOG BOTTOM	: 17.58	LOG MEASURED FROM. G.L.	DF :
LOG TOP	: -1.78	DRL MEASURED FROM: G.L.	GL :
CASING DRILLER	: -	LOGGING UNIT : 9302	
CASING TYPE	: -	FIELD OFFICE : LAS VEGAS	
CASING THICKNESS	: -	RECORDED BY : ROBERT YASEK	
BIT SIZE	: 8	BOREHOLE FLUID :	FILE : ORIGINAL
MAGNETIC DECL.	:	RM :	TYPE : 9810A
MATRIX DENSITY	:	RM TEMPERATURE :	LOG : 4
FLUID DENSITY	:	MATRIX DELTA T :	PLOT : TINKER
NEUTRON MATRIX	:	FLUID DELTA T :	DIRECT: DOWN
REMARKS	:		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


GAM(NAT)
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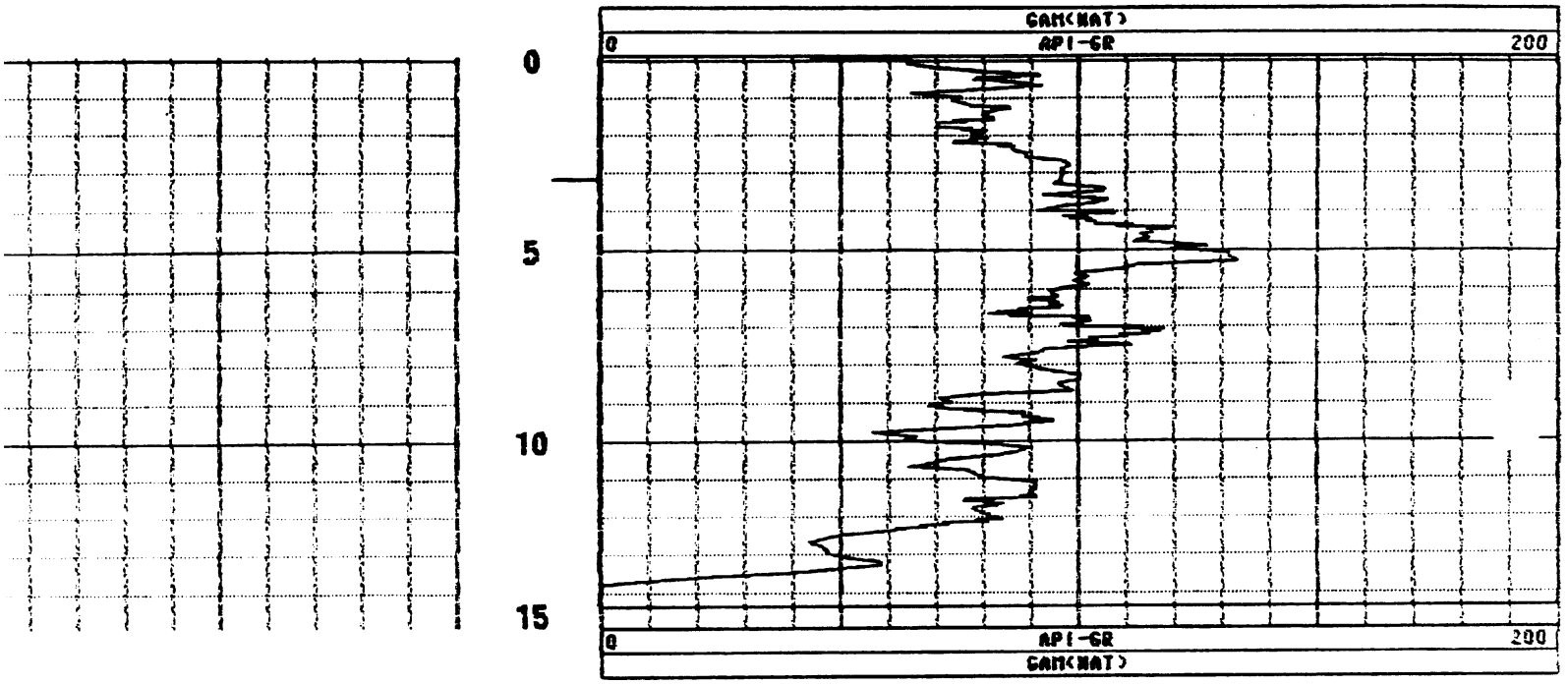
API-GR
200
0
5
10
15
20
0
API-GR
200
GAM(NAT)

Century GEOPHYSICAL CORP.

S32.1SB1

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: S32.1SB1				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 10/27/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 18	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 14.40	LOG MEASURED FROM	: G.L.	DF	:
LOG TOP	: -1.30	DRL MEASURED FROM	: G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT PASEK		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 90104
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 1
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: TINKER 1
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH	: 500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


GAM(NAT)
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API-GR
200
0
5
10
15
0
API-GR
200
GAM(NAT)

CGC

Century GEOPHYSICAL CORP.

S32.2SB2

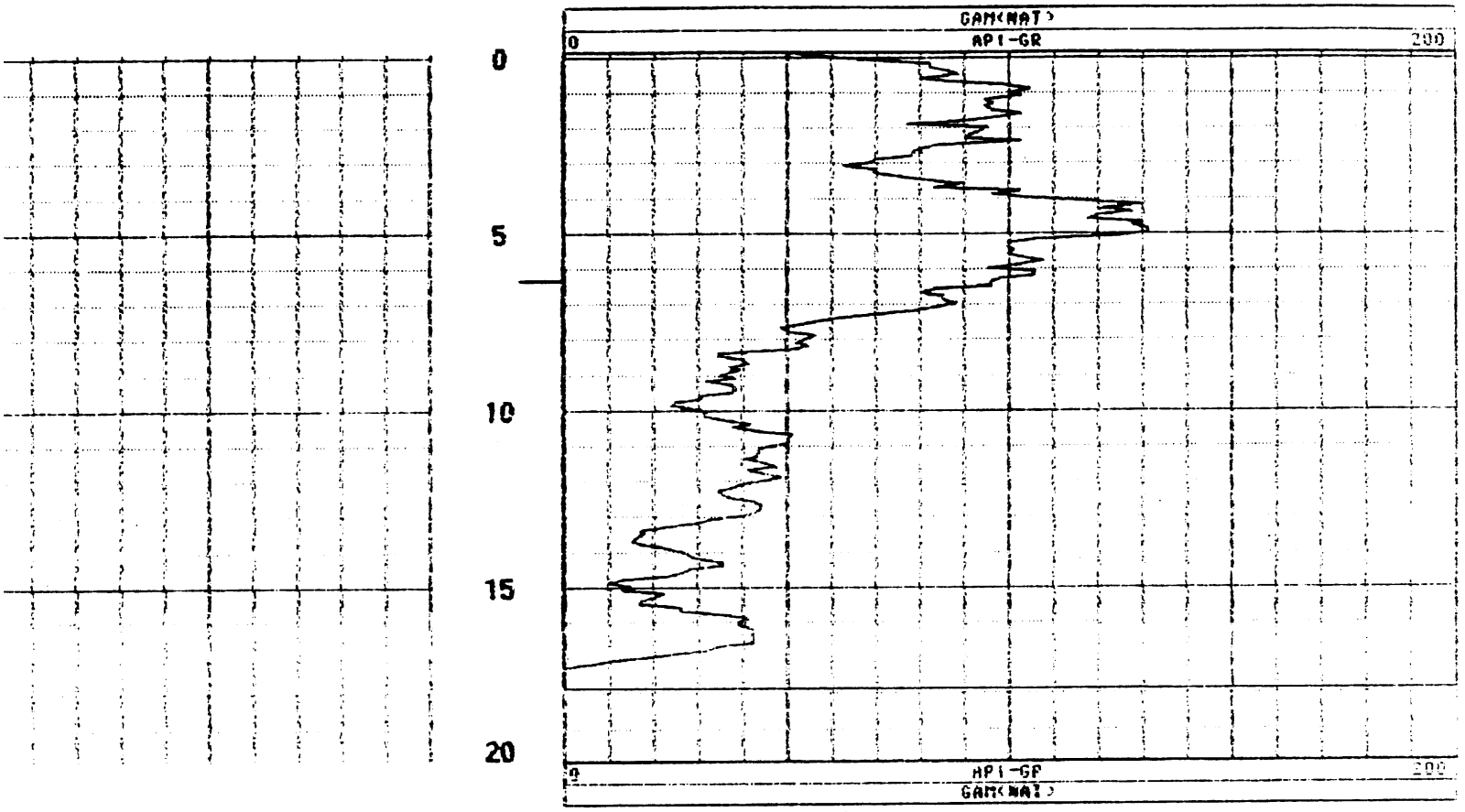
COMPANY	: ENGINEERING SCIENCE	OTHER SERVICES:	
WELL	: S32.2SB2		
LOCATION/FIELD	: TINKER AFB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION	:	TOWNSHIP	RANGE

DATE	: [illegible]	PERMANENT DATUM	ELEVATIONS
DEPTH DRILLER	: [illegible]	CEPD PERM. DATUM	KB :
LOG BOTTOM	: 17.00	LOG MEASURED FROM: G.L.	DF :
LOG TOP	: -0.00	DRL MEASURED FROM: G.L.	GL :

CASING DRILLER	: -	LOGGING UNIT	: [illegible]
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS
CASING THICKNESS	: -	RECORDED BY	: ROBERT VASER

BIT SIZE	: 8	BOREHOLE FLUID	FILE : ORIGINAL
MAGNETIC DECL.	:	RM :	TYPE : [illegible]
MATRIX DENSITY	:	RM TEMPERATURE	LOG : 2
FLUID DENSITY	:	MATRIX DELTA T :	PLOT : TINKER 1
NEUTRON MATRIX	:	FLUID DELTA T :	[illegible]
REMARKS			

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

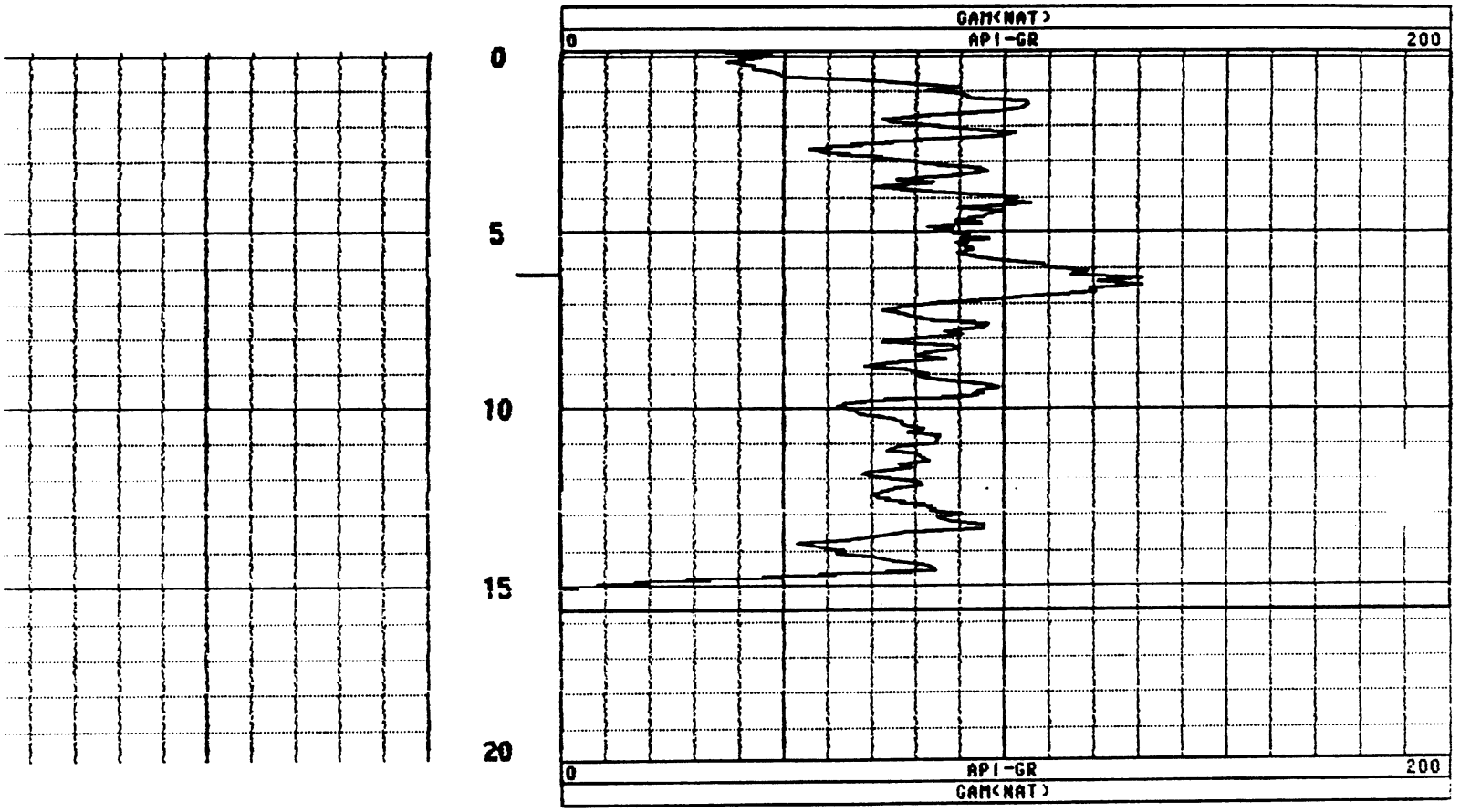

GAM(NAT)
0
API-GR
200
0
5
10
15
20
0
API-GR
200
GAM(NAT)

Century GEOPHYSICAL CORP.

S32.1SB3

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: S32.1SB3				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 10/27/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 18	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 15.70	LOG MEASURED FROM:	G.L.	DF	:
LOG TOP	: -1.10	DRL MEASURED FROM:	G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT YASEK		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9010A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 3
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: TINKER 1
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH:	500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

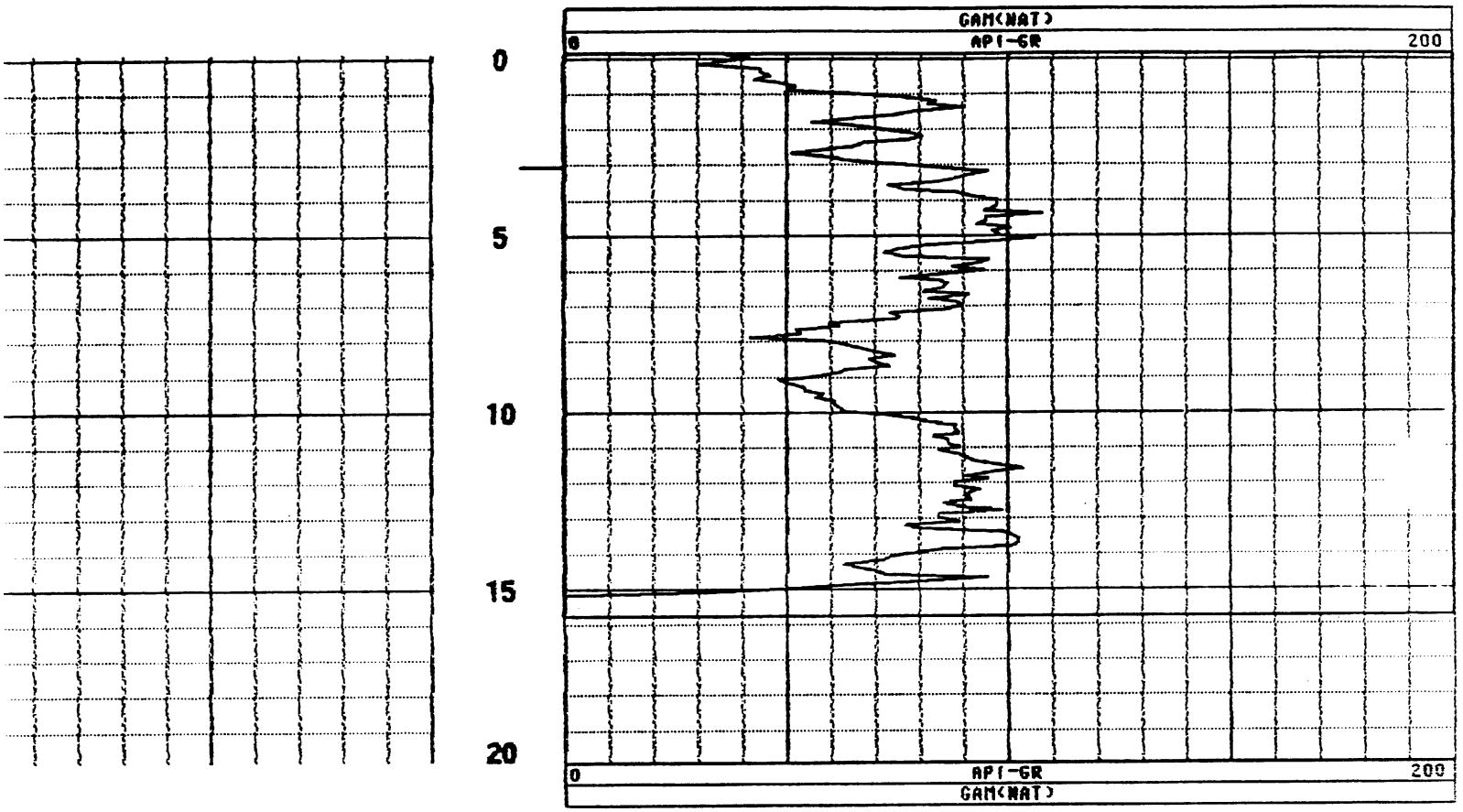

GAM(NAT)
0
API-GR
200
0
5
10
15
20
0
API-GR
200
GAM(NAT)

Century GEOPHYSICAL CORP.

S32.3SB4

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: S32.3SB4				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 10/27/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 18	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 15.80	LOG MEASURED FROM	: G.L.	DF	:
LOG TOP	: -1.60	DRL MEASURED FROM	: G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT YASEK		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9010A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 0
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: 9010A 0
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH	: 500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


GAM(NAT)
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API-GR
200
0
5
10
15
20
0
API-GR
200
GAM(NAT)

Century GEOPHYSICAL CORP.

124.4581

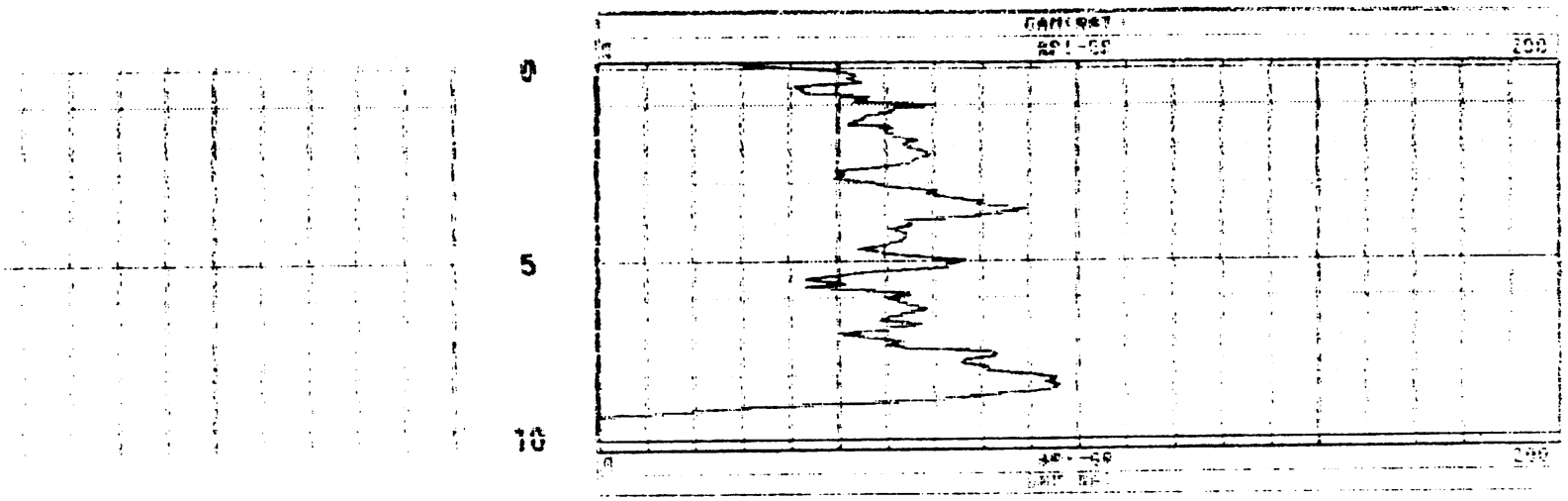
COMPANY	ENGINEERING SCIENCE	OTHER SERVICES	
WELL	124.4581		
LOCATION/FIELD	TINKER DEB		
COUNTY	OKLAHOMA		
STATE	OKLAHOMA		
SECTION		TOWNSHIP	RANGE

DATE	[illegible]	PERMANENT DATUM		ELEVATIONS	
DEPTH DRILLED	— 11	ELEV. PERM. DATUM		[illegible]	
LOG BOTTOM	[illegible]	LOG MEASURED FROM	[illegible]	[illegible]	
LOG TOP	[illegible]	DRL MEASURED FROM	[illegible]	[illegible]	

CASING DRILLER		CASING UNIT	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		RECORDED BY	[illegible]

BIT SIZE	[illegible]	BOREHOLE FLUID		FILE	: ORIGINAL
MAGNETIC DECL		RM	:	TYPE	: [illegible]
MATRIX DENSITY		RM TEMPERATURE	:	LOG	: C
FLUID DENSITY		MATRIX DELTA T	:	PLOT	: TINKER
[illegible]		FLUID DELTA T		[illegible]	: [illegible]
REMARKS					

[illegible]

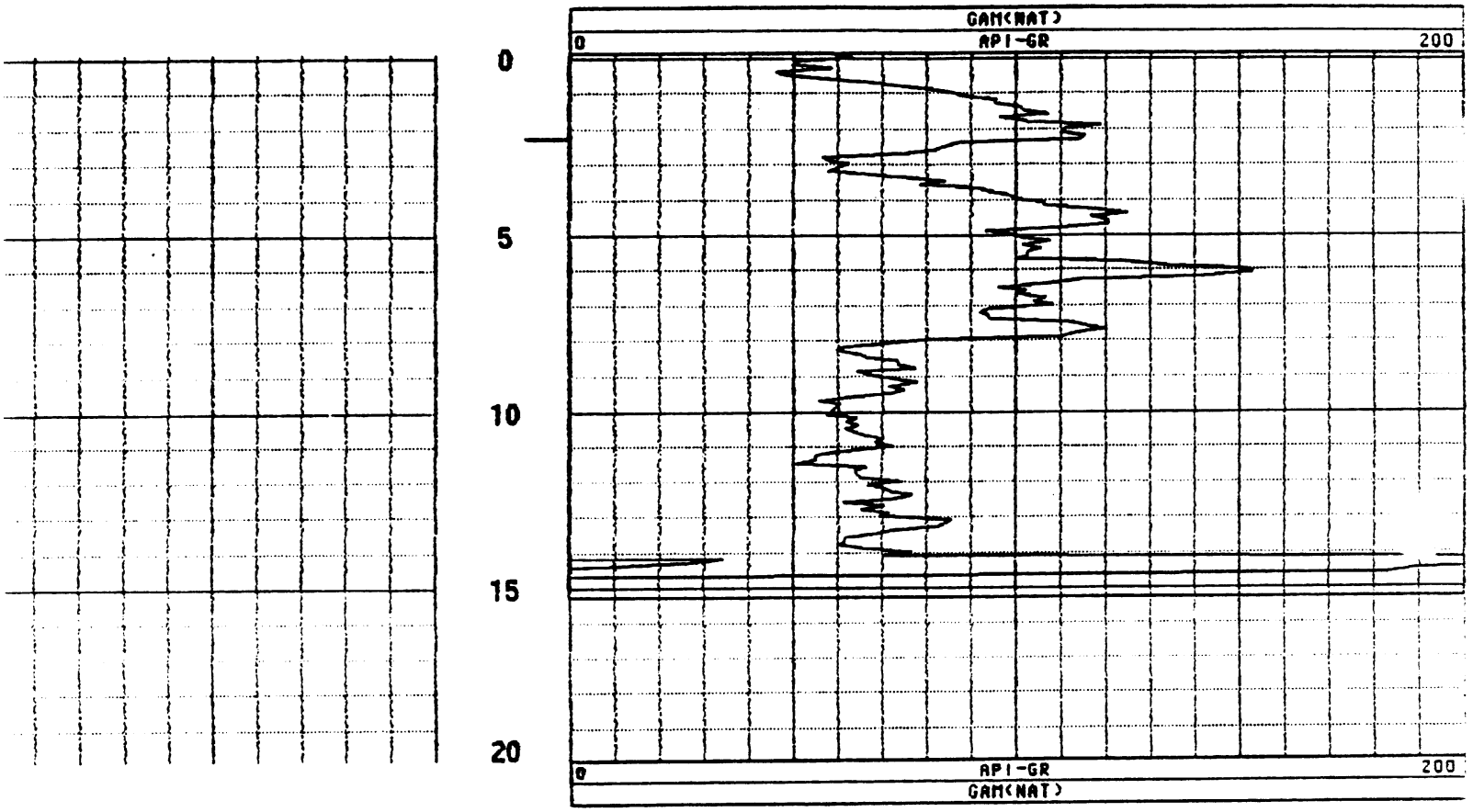

0
5
10
200

Century GEOPHYSICAL CORP.

124.5SB2

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: 124.5SB2				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 10/28/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 15	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 15.20	LOG MEASURED FROM:	G.L.	DF	:
LOG TOP	: -1.10	DRL MEASURED FROM:	G.L.	GL	:
CASING DRILLER	:	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT YASEK		
BIT SIZE	: 6	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9010A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 0
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: TINKER 1
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH:	500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


GAM(NAT)
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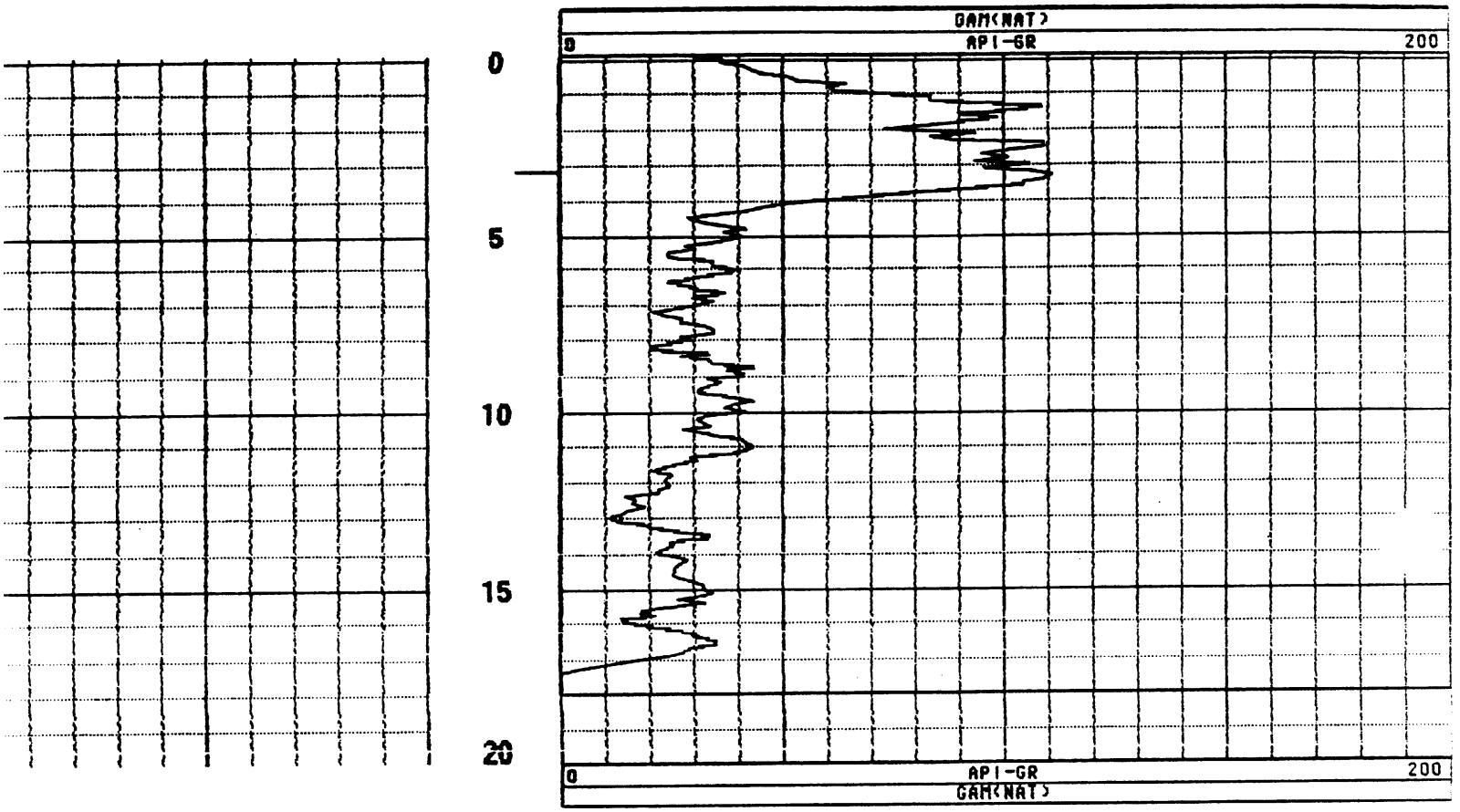
API-GR
200
0
5
10
15
20
0
API-GR
200
GAM(NAT)

Century GEOPHYSICAL CORP.

S32.8SB1

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: S32.8SB1				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 10/28/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 18	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 19.00	LOG MEASURED FROM:	G.L.	DF	:
LOG TOP	: -0.90	DRL MEASURED FROM:	G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT YASEK		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 3010A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 1
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: TINKER 1
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH	: 500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS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API-GR
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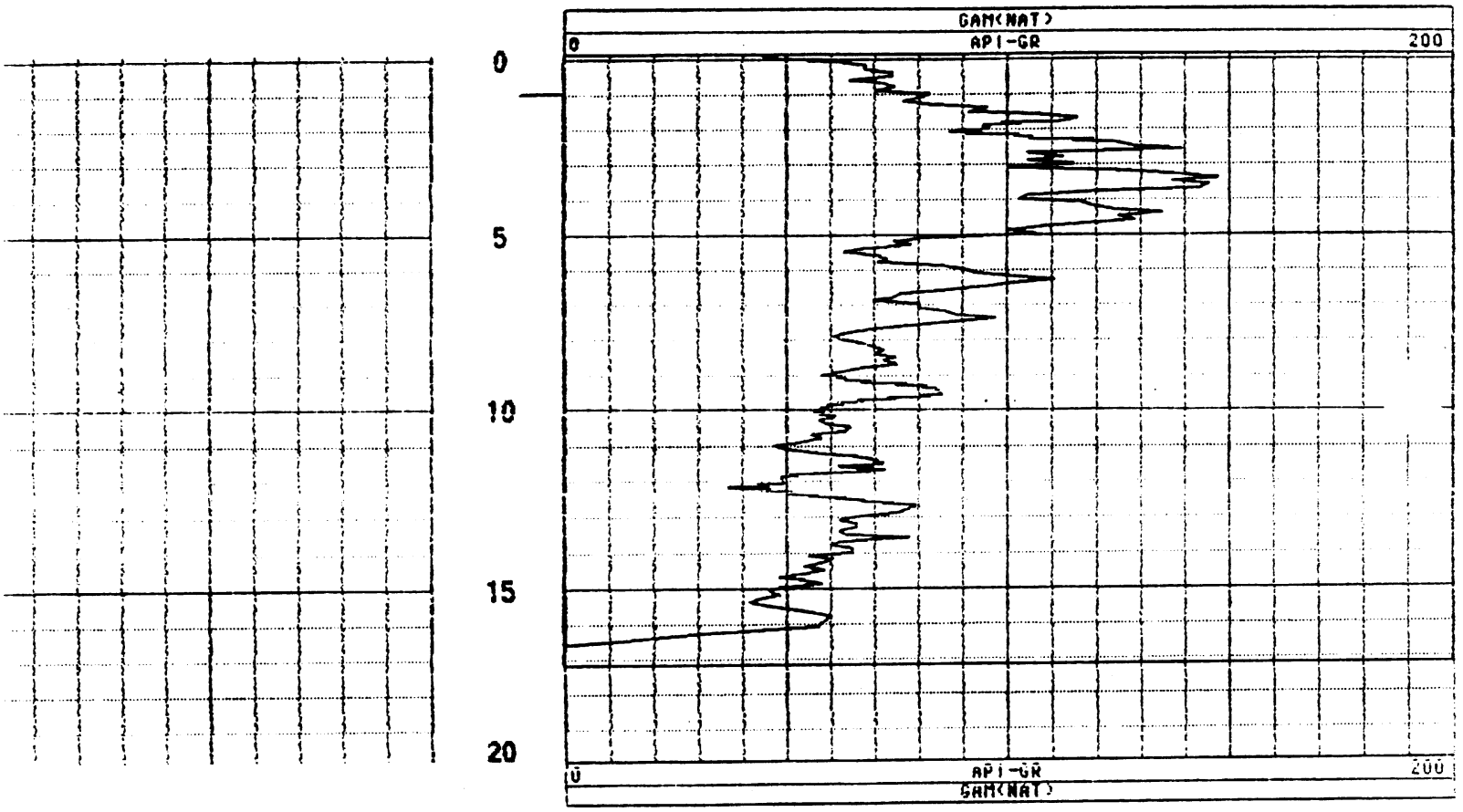
5
10
15
20
0
API-GR
200
GAM(NAT)

Century GEOPHYSICAL CORP.

I24.6SB1

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: I24.6SB1				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 10/28/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 18	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 17.20	LOG MEASURED FROM:	G.L.	DF	:
LOG TOP	: [illegible]	DRL MEASURED FROM:	G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT YASEK		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9010A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 8
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: TINKER 1
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH	: [illegible]
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS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API-GR
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15
20
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API-GR
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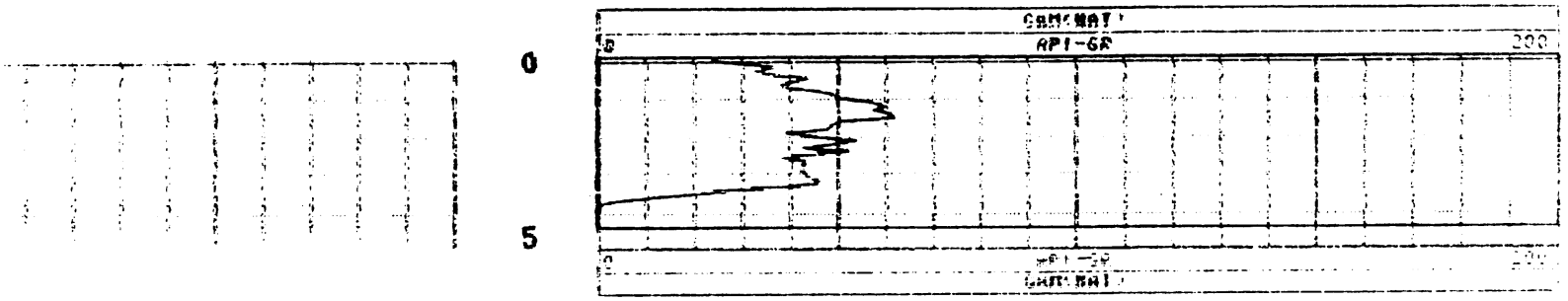
GAM(NAT)

Century GEOPHYSICAL CORP.

124.5SB3

COMPANY	: ENGINEERING SCIENCE	OTHER SERVICES:	
WELL	: 124.5SB3		
LOCATION/FIELD	: TINKER AFB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION	:	TOWNSHIP	RANGE
DATE	: [illegible]	PERMANENT DATUM :	ELEVATION
DEPTH DRILLER	: ~~10~~ 5	ELEV. PERM. DATUM.	KB
[illegible]	[illegible]	LOG MEASURED FROM	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
CASING DRILLER	:	LOGGING UNIT	[illegible]
CASING TYPE		FIELD OFFICE	LAS VEGAS
CASING THICKNESS		RECORDED BY	: ROBERT VASEY
BIT SIZE	: 8	BOREHOLE FLUID :	FILE : ORIGINAL
[illegible]		RM	TYPE : [illegible]
[illegible]		RM TEMPERATURE	[illegible]
FLUID DENSITY		MATRIX DELTA T	[illegible]
NEUTRON MATRIX		FLUID DELTA T	[illegible]
[illegible]			

[illegible]


0
5
API-GR
0
200

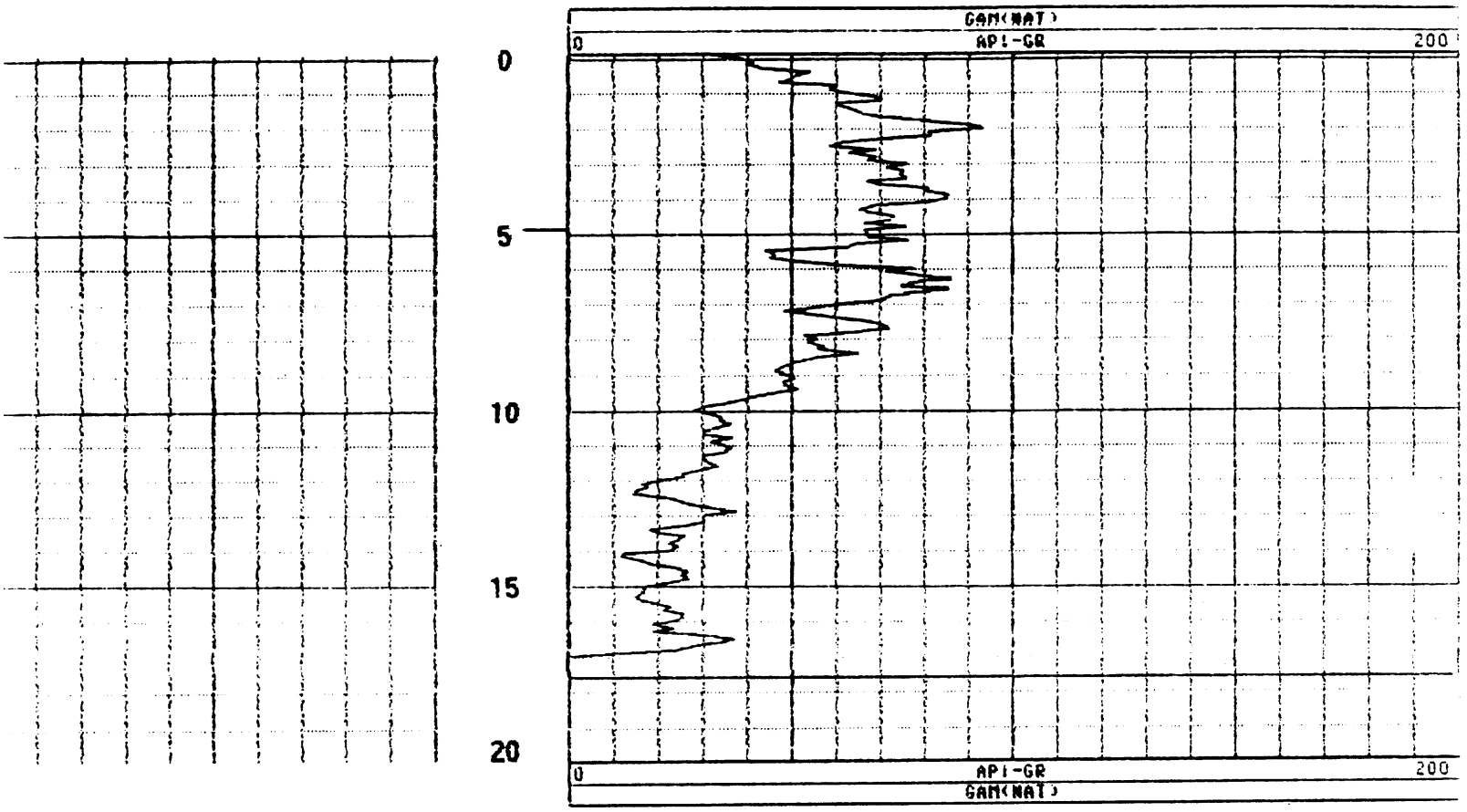
CGC

Century GEOPHYSICAL CORP.

S32.8SB3

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: S32.8SB3				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 10/29/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 18	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 17.68	LOG MEASURED FROM	: G.L	DF	:
LOG TOP	: -1.70	DRL MEASURED FROM	: G.L	GL	:
CASING DRILLER	:	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT YASEK		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9010A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 3
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: TINKER 1
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH	: 500000
REMARKS					

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS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API-GR
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API-GR
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GAM(NAT)

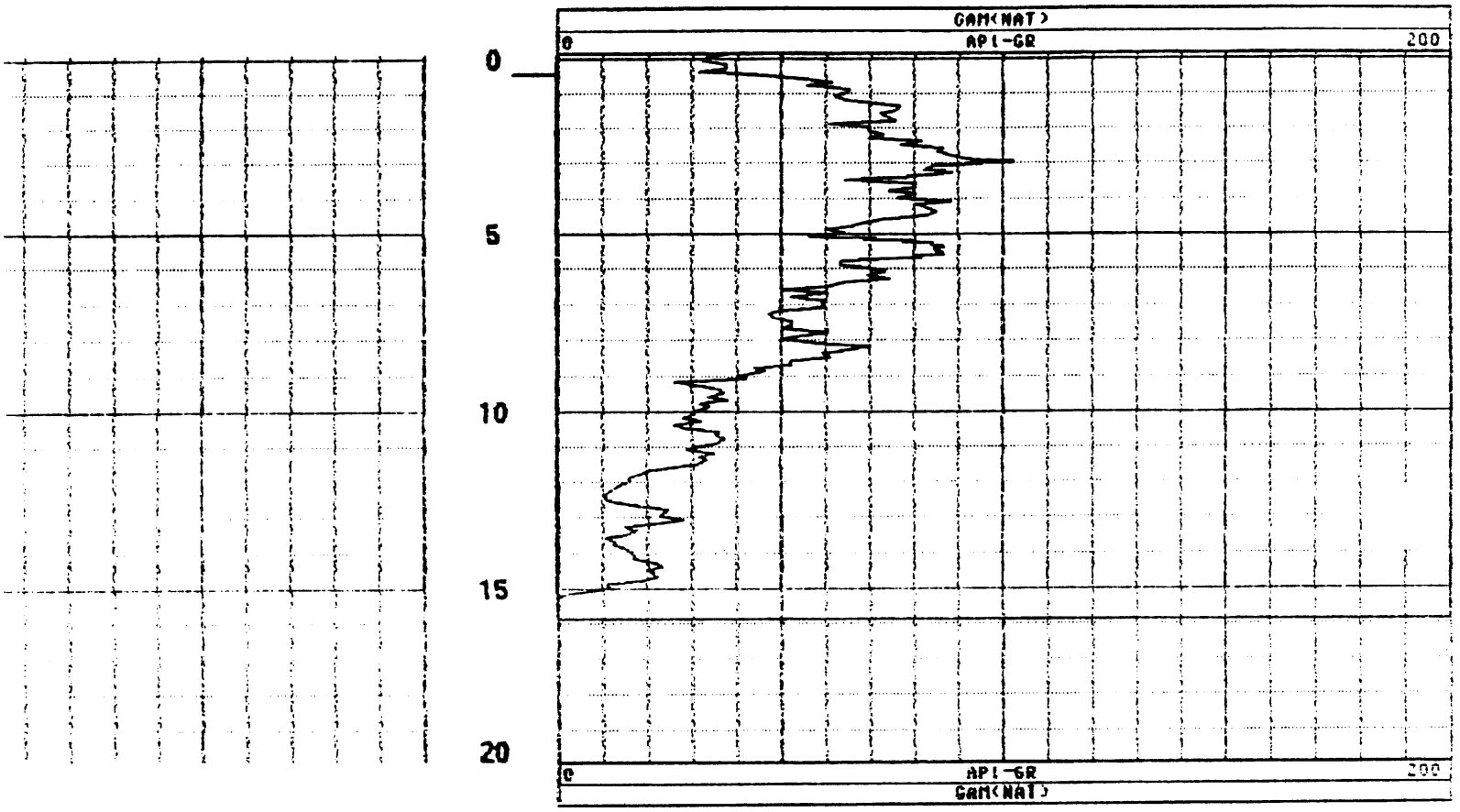
CGC

Century GEOPHYSICAL CORP.

S32.8SB2

COMPANY	: ENGINEERING SCIENCE	OTHER SERVICES:	
WELL	: S32.8SB2		
LOCATION/FIELD	: TINKER AFB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION	:	TOWNSHIP :	RANGE :
DATE	: 10/29/93	PERMANENT DATUM :	ELEVATIONS
DEPTH DRILLER	: ~~[illegible]~~ 16.5	ELEV. PERM. DATUM.	KB
LOG BOTTOM	: 15.00	LOG MEASURED FROM: G.L.	DF
LOG TOP	: -1.00	DRL MEASURED FROM: G.L.	GL
CASING DRILLER	:	LOGGING UNIT : 9302	
CASING TYPE	:	FIELD OFFICE : LAS VEGAS	
CASING THICKNESS:		RECORDED BY : ROBERT YASEK	
BIT SIZE	: 8	BOREHOLE FLUID :	FILE : ORIGINAL
MAGNETIC DECL.	:	RM :	TYPE : 9010A
MATRIX DENSITY	:	RM TEMPERATURE :	LOG : 2
FLUID DENSITY	:	MATRIX DELTA T :	PLOT : TINKER [illegible]
NEUTRON MATRIX	:	FLUID DELTA T :	THRESH: [illegible]
REMARKS	:		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS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API-GR
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API-GR
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GAM(NAT)

CGC

Century GEOPHYSICAL CORP.

S32.8SB17

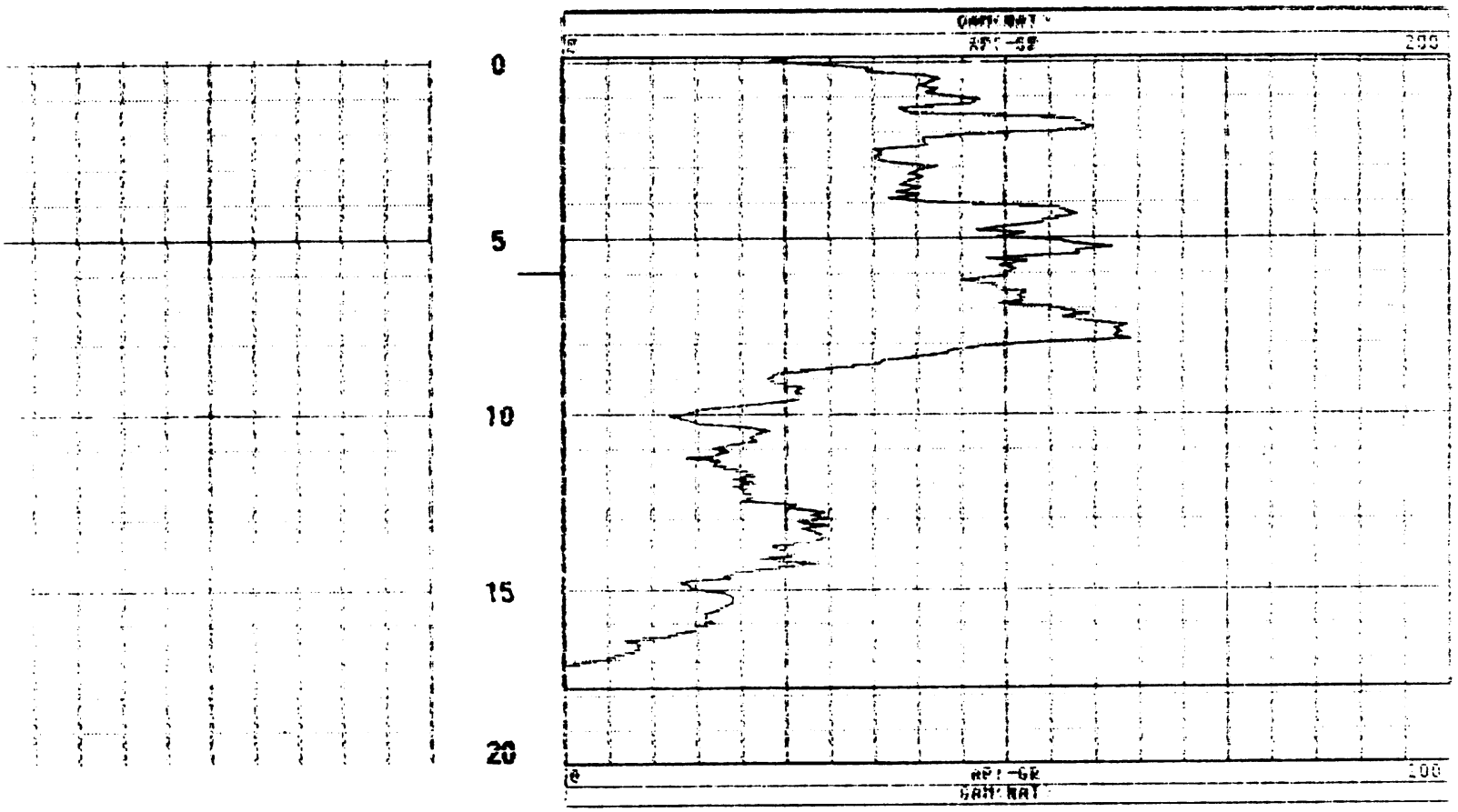
COMPANY	: ENGINEERING SCIENCE		OTHER SERVICES
WELL	: S32.8SB17		
LOCATION/FIELD	: TINKER DEB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION	:	TOWNSHIP	: RANGE :

DATE	: [illegible]	PERMANENT DATUM	: [illegible]
[illegible]	: [illegible]	[illegible]	: [illegible]
LOG BOTTOM	: [illegible]	LOG MEASURED FROM	: [illegible]
LOG TOP	: [illegible]	DRL MEASURED FROM	: [illegible]

CASING DRILLER	:	LOGGING UNIT	: [illegible]
CASING TYPE	:	FIELD OFFICE	: LAS VEGAS
CASING THICKNESS	:	RECORDED BY	: ROBERT [illegible]

BIT SIZE	: [illegible]	BOREHOLE FLUID	:	[illegible]	[illegible]
MAGNETIC DECL.	:	PH	:	[illegible]	[illegible]
[illegible]	:	[illegible]	:	[illegible]	[illegible]
[illegible]	:	[illegible]	:	[illegible]	[illegible]
[illegible]	:	[illegible]	:	[illegible]	[illegible]
REMARKS	:				

[illegible]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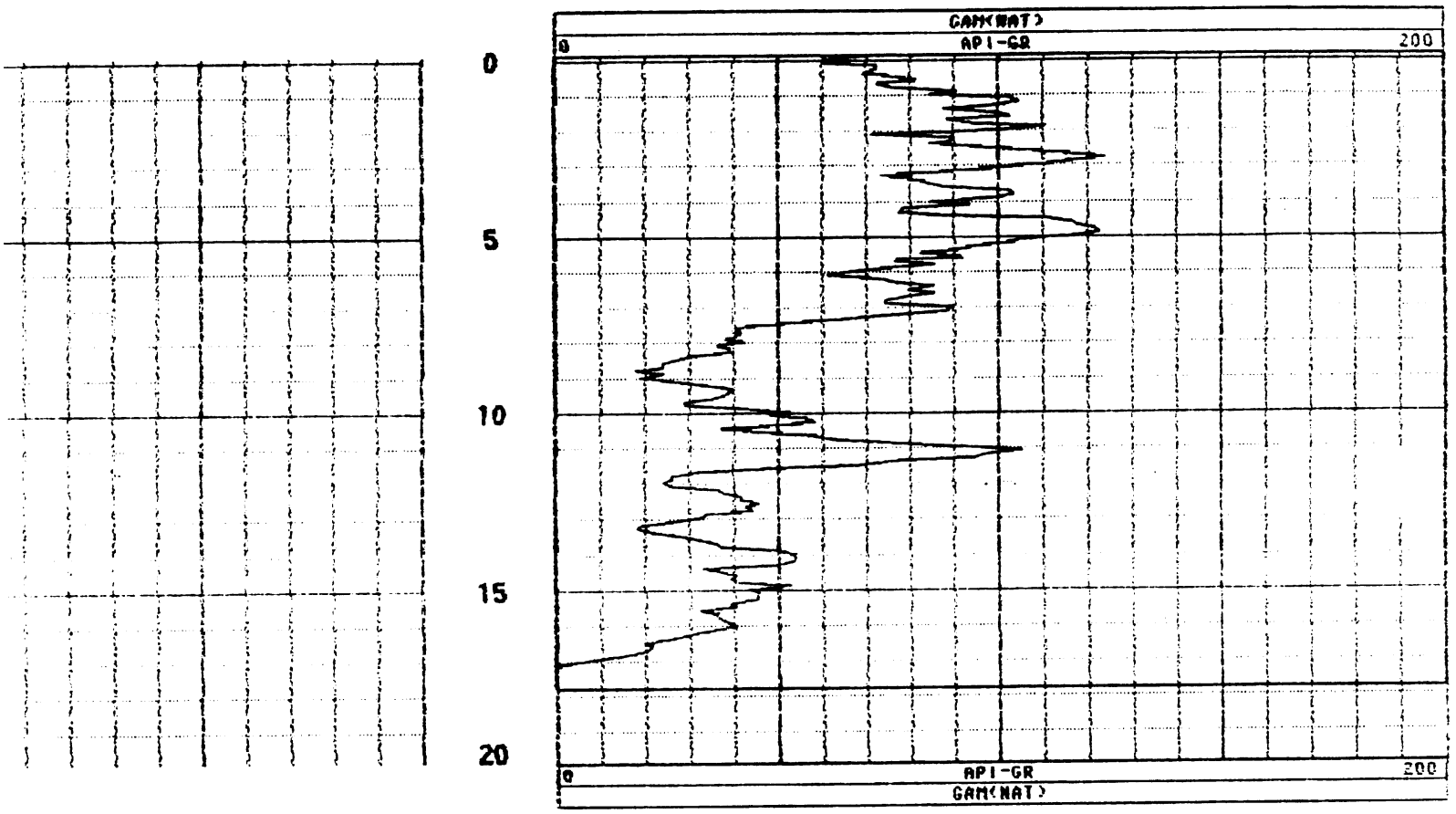
CGC

Century GEOPHYSICAL CORP.

S32.8SB15

COMPANY	: ENGINEERING SCIENCE	OTHER SERVICES:	
WELL	: S32.8SB15		
LOCATION/FIELD	: TINKER AFB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION	:	TOWNSHIP :	RANGE :
DATE	: 11/01/93	PERMANENT DATUM :	ELEVATIONS
DEPTH DRILLER	: 16	ELEV. PERM. DATUM:	KB :
LOG BOTTOM	: 17.90	LOG MEASURED FROM: G.L.	DF :
LOG TOP	: 1.40	DRL MEASURED FROM: G.L.	GL :
CASING DRILLER	: -	LOGGING UNIT : 9302	
CASING TYPE	:	FIELD OFFICE : LAS VEGAS	
CASING THICKNESS:		RECORDED BY : ROBERT YASER	
BIT SIZE	: 8	BOREHOLE FLUID :	FILE : ORIGINAL
MAGNETIC DECL.	:	RM :	TYPE : 9010A
MATRIX DENSITY	:	RM TEMPERATURE :	LOG : 2
FLUID DENSITY		MATRIX DELTA T :	PLOT : TINKER 1
NEUTRON MATRIX	:	FLUID DELTA T :	[illegible]
REMARKS	:		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS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API-GR
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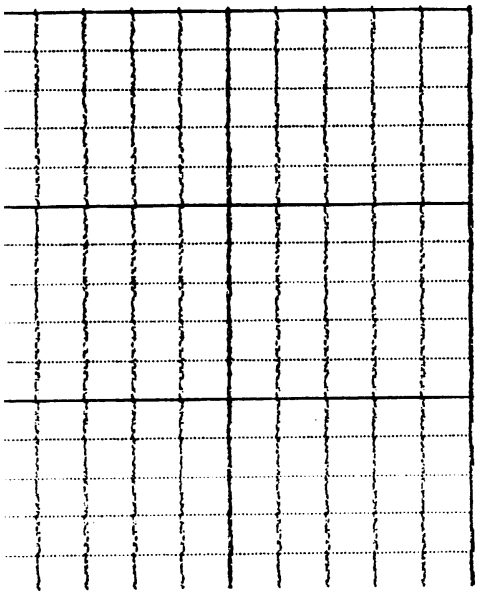
GAM(NAT)

Century GEOPHYSICAL CORP.

S32.4SB1

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: S32.4SB1				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 11/01/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: ~~N~~ 11.5	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 11.90	LOG MEASURED FROM:	G.L.	DF	:
LOG TOP	: -1.30	DRL MEASURED FROM:	G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT YASEK		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9010A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 8
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: 9010A 8
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH	: 500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



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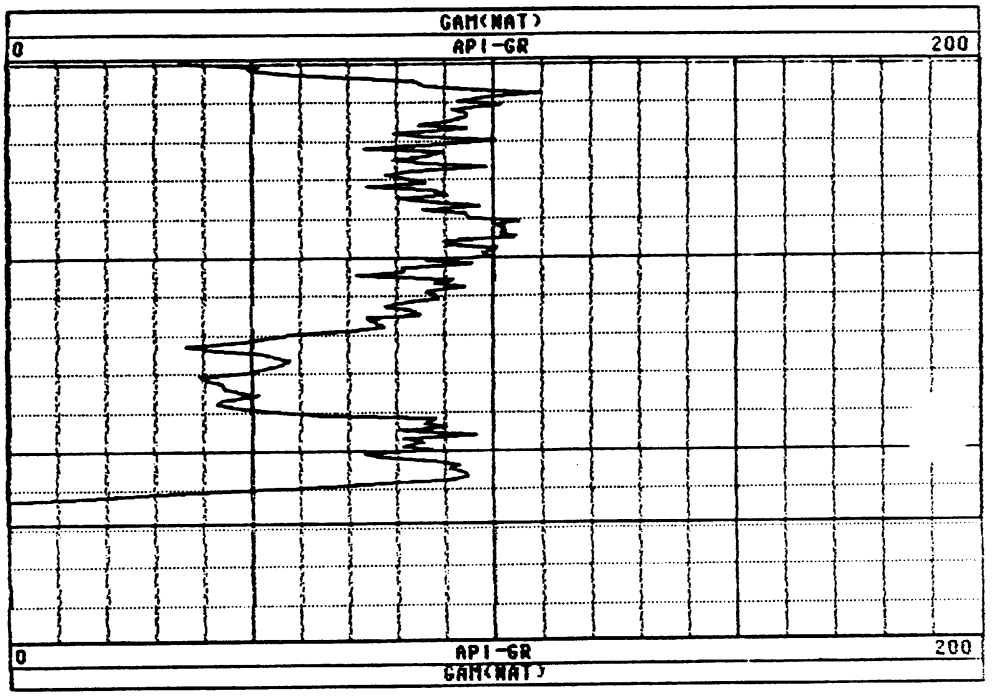
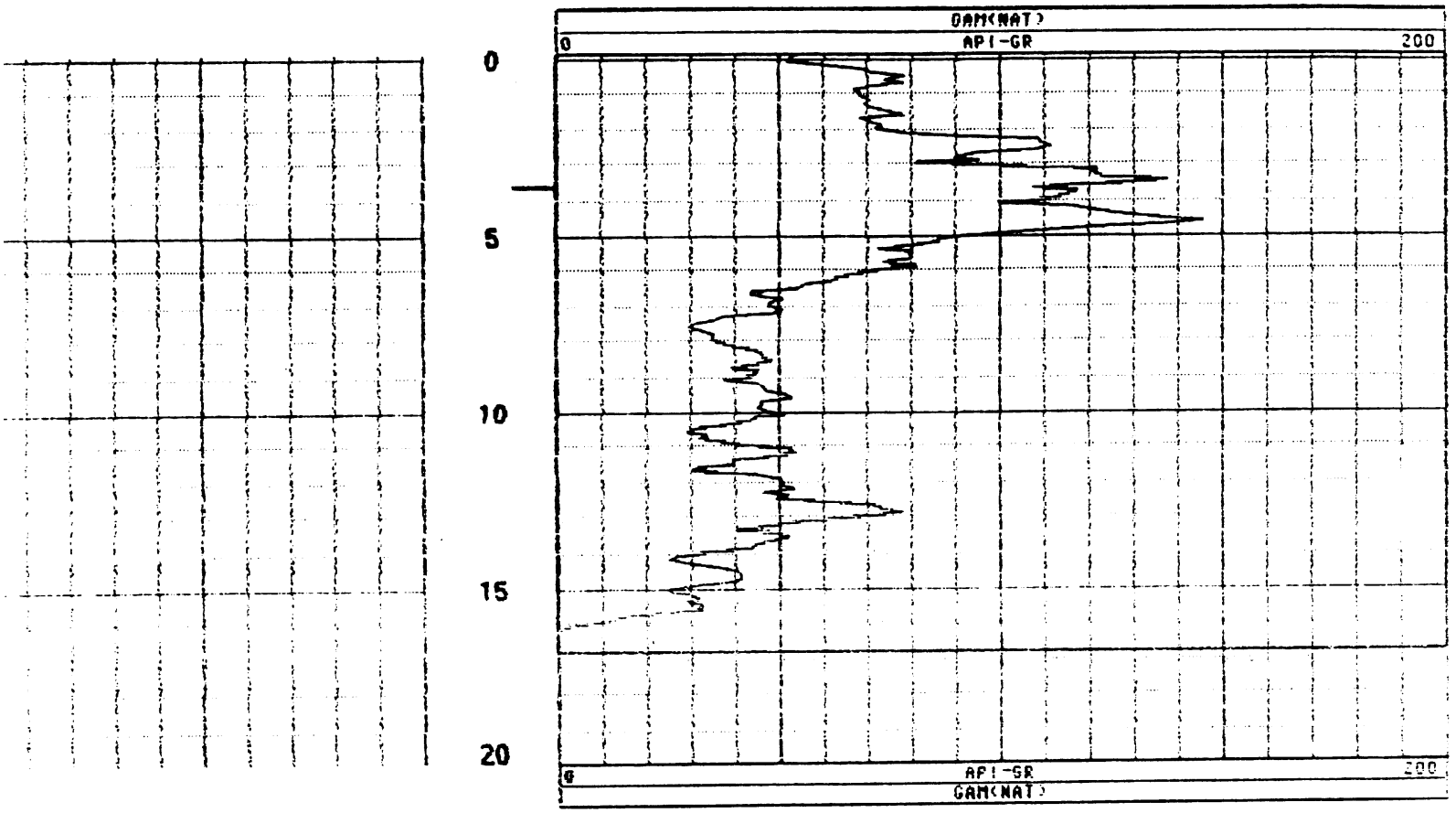


Century GEOPHYSICAL CORP.

S32.8SB14

COMPANY	: ENGINEERING SCIENCE	OTHER SERVICES:	
WELL	: S32.8SB14		
LOCATION/FIELD	: TINKER AFB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION	:	TOWNSHIP :	RANGE :
DATE	: 11/02/93	PERMANENT DATUM :	ELEVATIONS
DEPTH DRILLER	: ~~17~~ 18	ELEV. PERM. DATUM:	KB :
LOG BOTTOM	: 16.80	LOG MEASURED FROM: G.L.	DF :
LOG TOP	: [illegible]	DRL MEASURED FROM: G.L.	GL :
CASING DRILLER	:	LOGGING UNIT : [illegible]	
CASING TYPE	:	FIELD OFFICE : LAS VEGAS	
CASING THICKNESS:		RECORDED BY : ROBERT VASEK	
BIT SIZE	: 8	BOREHOLE FLUID :	FILE : ORIGINAL
MAGNETIC DECL.	:	RM :	TYPE : 9010A
MATRIX DENSITY	:	RM TEMPERATURE :	LOG : 8
FLUID DENSITY	:	MATRIX DELTA T :	PLOT : TINKER
NEUTRON MATRIX	:	FLUID DELTA T :	THRESH: 500000
REMARKS	:		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS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15
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API-GR
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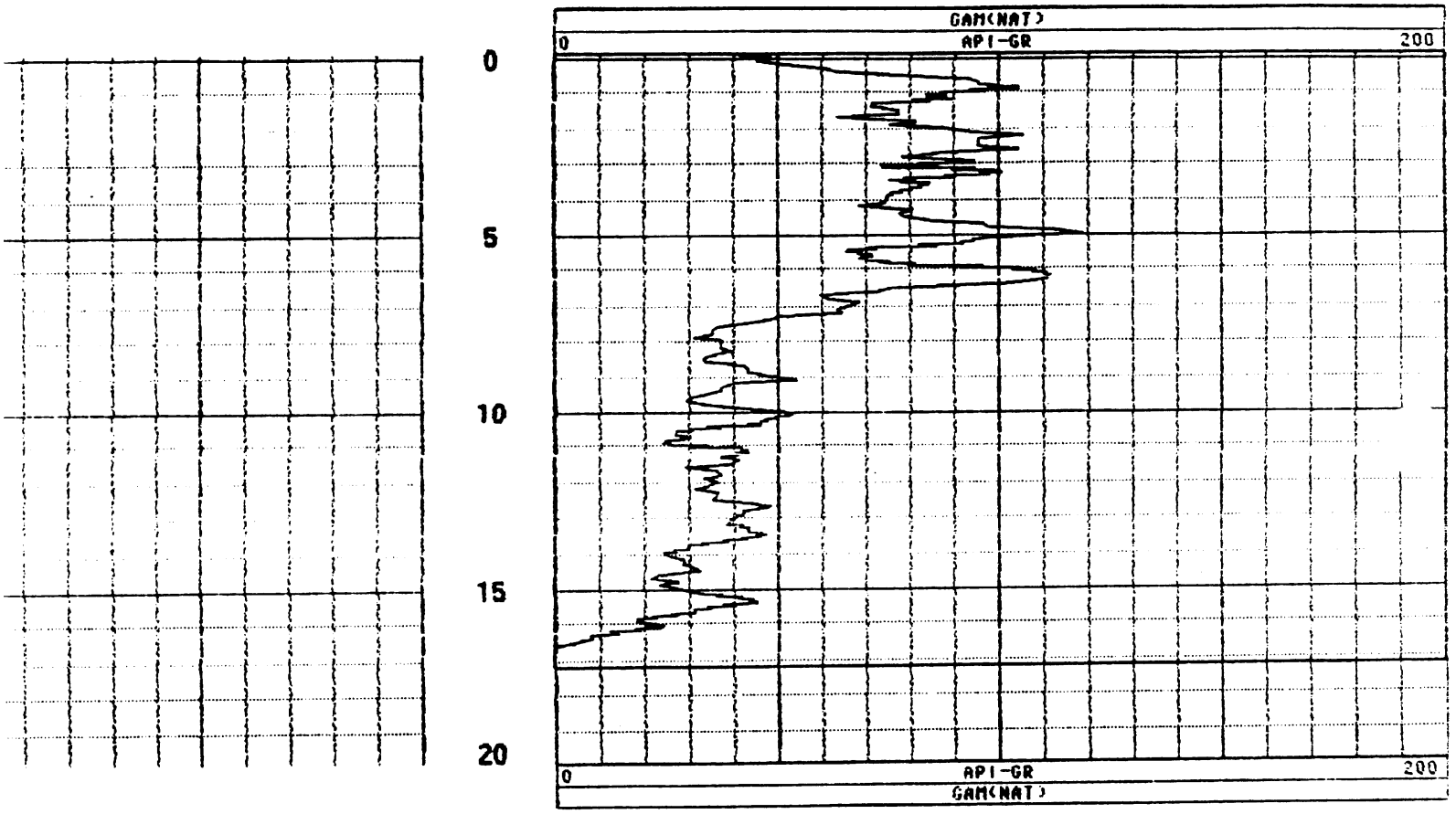
GAM(NAT)

Century GEOPHYSICAL CORP.

S32.8SB12

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: S32.8SB12				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 11/02/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 16	ELEV. PERM. DATUM		KB	:
LOG BOTTOM	: 17.00	LOG MEASURED FROM:	G.L.	DF	:
LOG TOP	: -1.10	DRL MEASURED FROM:	G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT VASEK		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9414A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 2
FLUID DENSITY	:	MATRIX-DELTA T	:	PLOT	: TINKER
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH	: 500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS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API-GR
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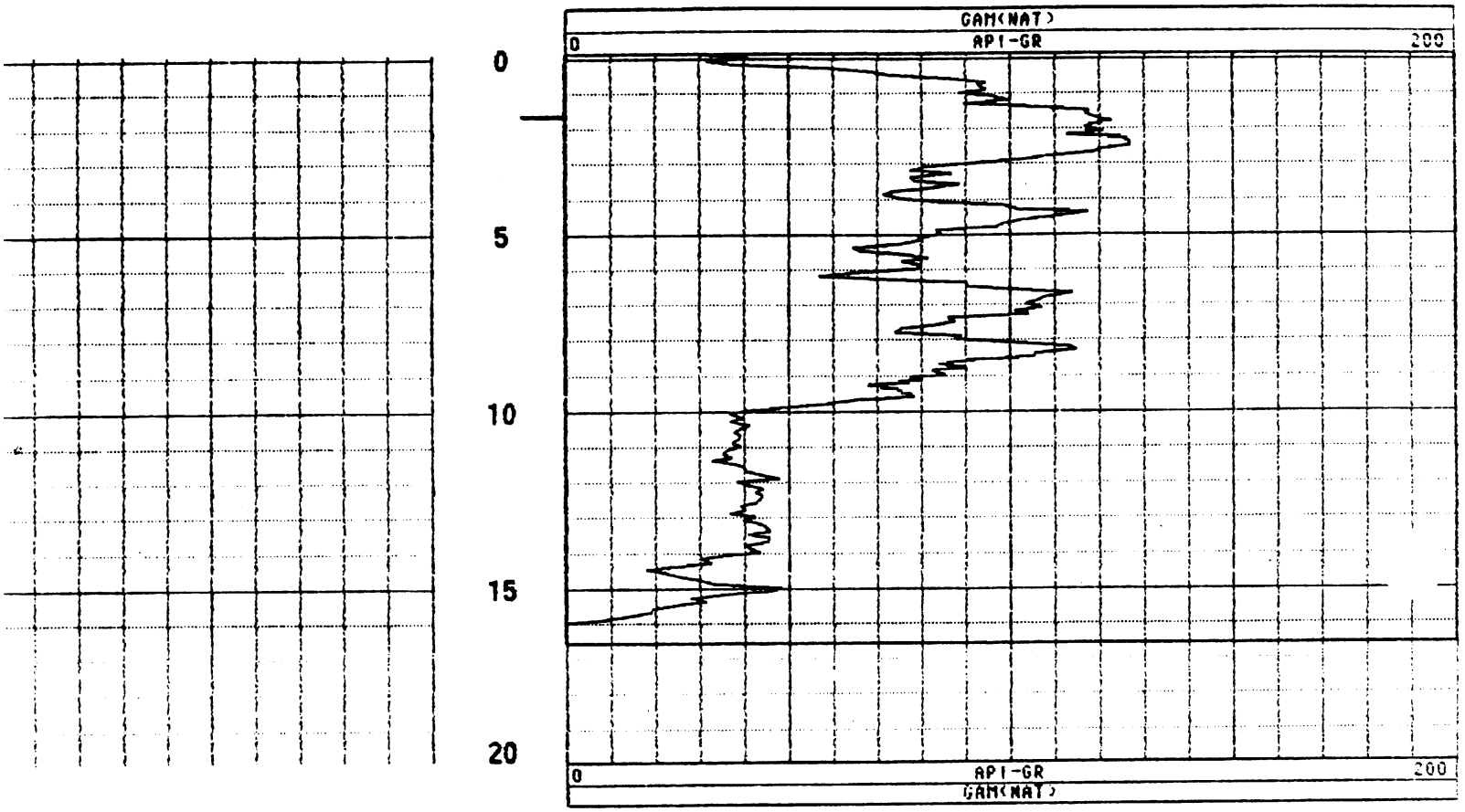
GAM(NAT)

Century GEOPHYSICAL CORP.

S32.8SB13

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: S32.8SB13				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 11/02/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLED	: 18	ELEV. PERM. DATUM.		KB	:
LOG BOTTOM	: 16.60	LOG MEASURED FROM:	G.L.	DF	:
LOG TOP	: -1.60	DRL MEASURED FROM:	G.L	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT YASEK		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9010A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 1
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: TINKER :
NEUTRON MATRIX	:	FLUID DELTA T	:	TIMESH	: 500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


GAM(NAT)
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API-GR
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API-GR
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GAM(NAT)

Century GEOPHYSICAL CORP.

S32.8SB11

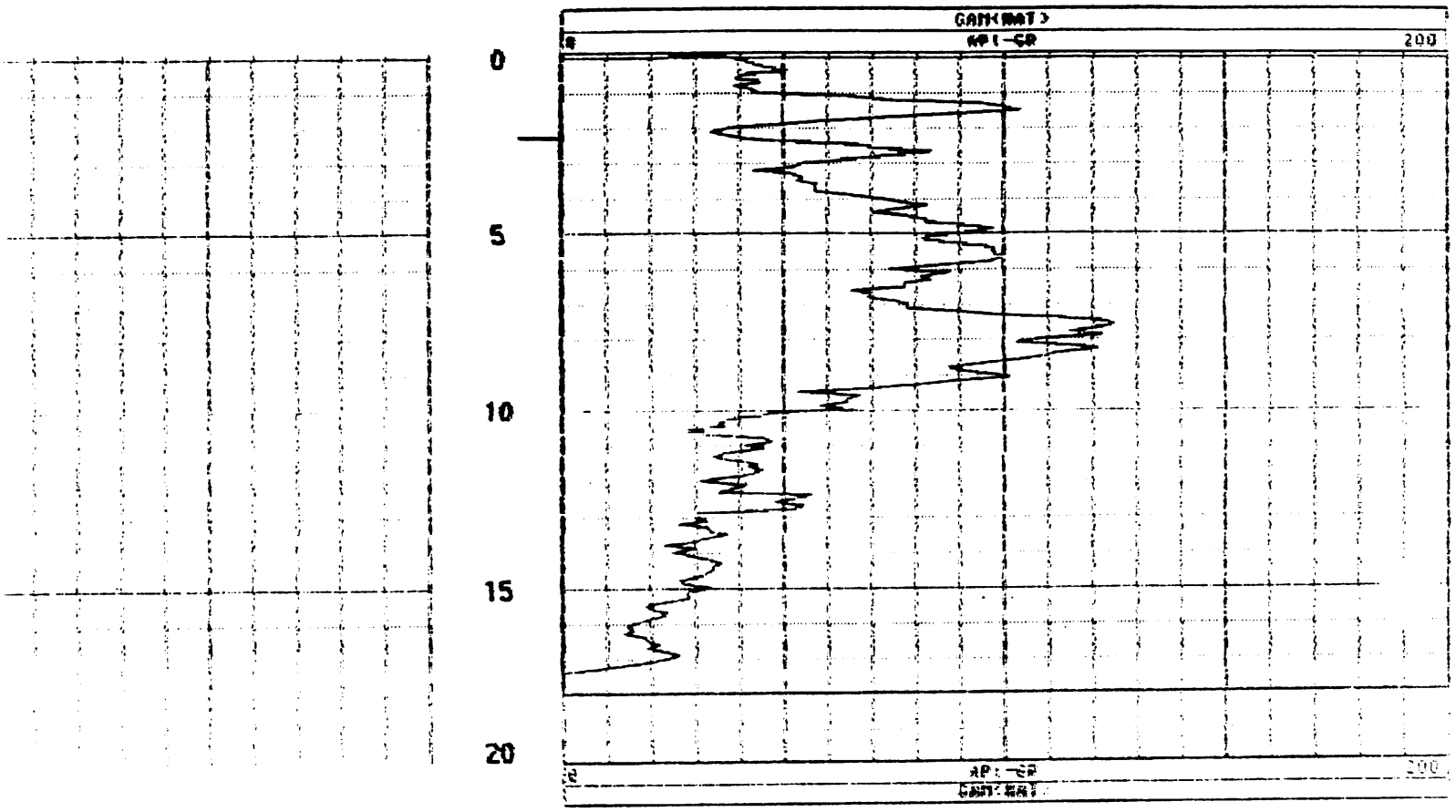
COMPANY	: ENGINEERING SCIENCE		OTHER SERVICES:
WELL	: S32.8SB11		
LOCATION/FIELD	: TINKER AFB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION	:	TOWNSHIP	: RANGE

DATE	: 11/03/93	PERMANENT DATUM	: ELEVATIONS
DEPTH DRILLER	: [illegible]	FIELD PERM. DATUM	: [illegible]
LOG DATUM	: [illegible]	LOG MEASURED FROM	: [illegible]
LOG TOP	: [illegible]	DRL MEASURED FROM	: [illegible]

CASING DRILLER	:	LOGGING UNIT	: [illegible]
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS
CASING THICKNESS	:	RECORDED BY	: ROBERT YASER

BIT SIZE	: 8	BOREHOLE FLUID	: FILE : ORIGINAL
MAGNETIC DECL.	:	RM	: TYPE : [illegible]
MATRIX DENSITY	:	RM TEMPERATURE	: LOG : [illegible]
LIQUID DENSITY		MATRIX DELTA T	: PLUG : [illegible]
MEDIUM MATRIX		LIQUID DELTA T	: [illegible]
REMARKS			

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


GAM(NAT)
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5
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15
20
200

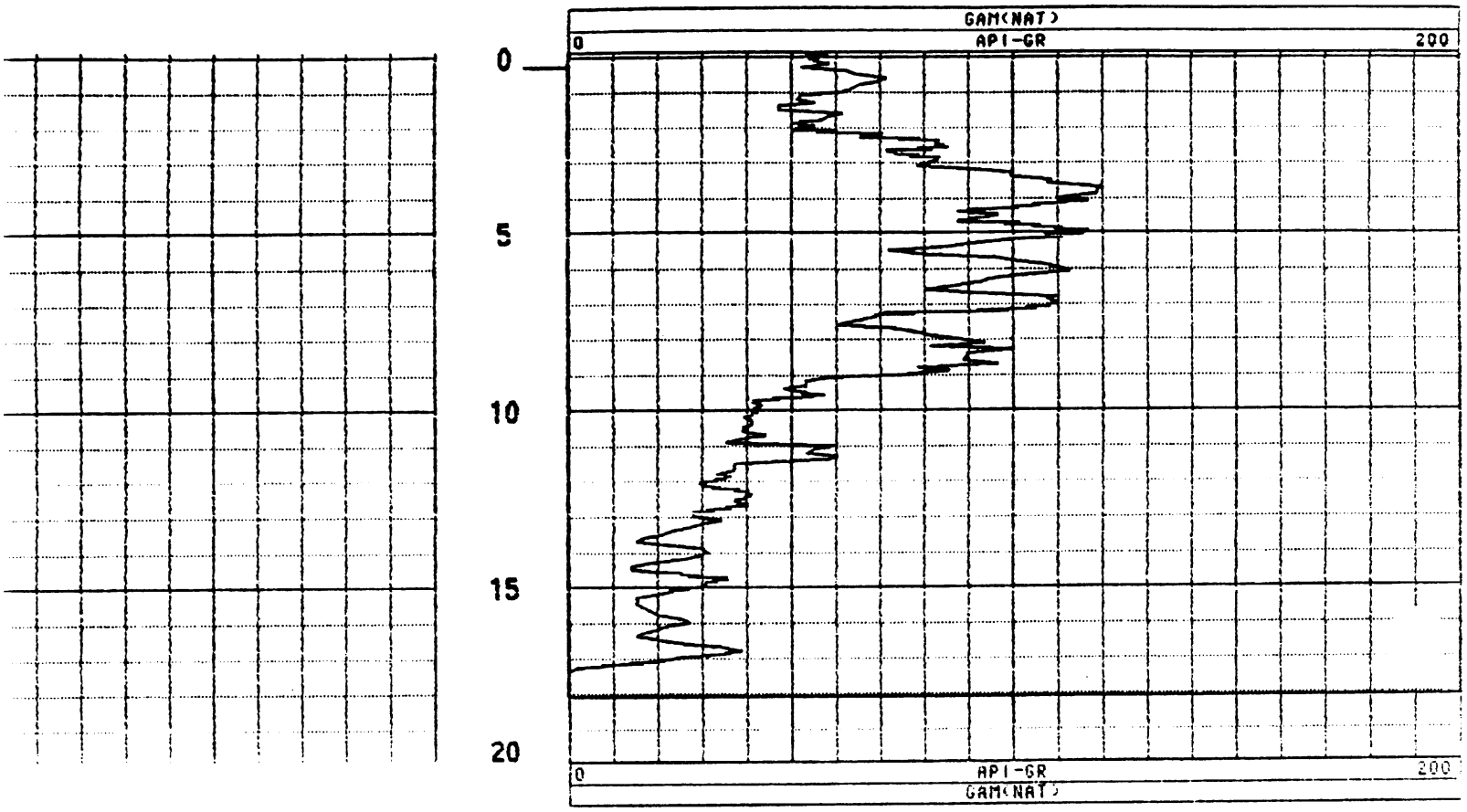
Century GEOPHYSICAL CORP.

S32.8SB10

COMPANY	: ENGINEERING SCIENCE		
WELL	: S32.8SB10		
LOCATION/FIELD	: TINKER AFB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION	:	TOWNSHIP :	RANGE :
DATE	: 11/03/93	PERMANENT DATUM :	ELEVATIONS
DEPTH DRILLER	: 18	ELEV. PERM. DATUM:	KB :
LOG BOTTOM	: 18.10	LOG MEASURED FROM: G.L.	DF :
LOG TOP	: -0.80	DRL MEASURED FROM: G.L.	GL :
CASING DRILLER	: -	LOGGING UNIT : 9302	
CASING TYPE	: -	FIELD OFFICE : LAS VEGAS	
CASING THICKNESS	: -	RECORDED BY : ROBERT YASER	
BIT SIZE	: 8	BOREHOLE FLUID :	FILE : ORIGINAL
MAGNETIC DECL.	:	RM :	TYPE : 9010A
MATRIX DENSITY	:	RM TEMPERATURE :	LOG : 0
FLUID DENSITY	:	MATRIX DELTA T :	PLOT : TINKER
NEUTRON MATRIX	:	FLUID DELTA T :	THRESH: 500000
REMARKS	:		

OTHER SERVICES:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS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API-GR
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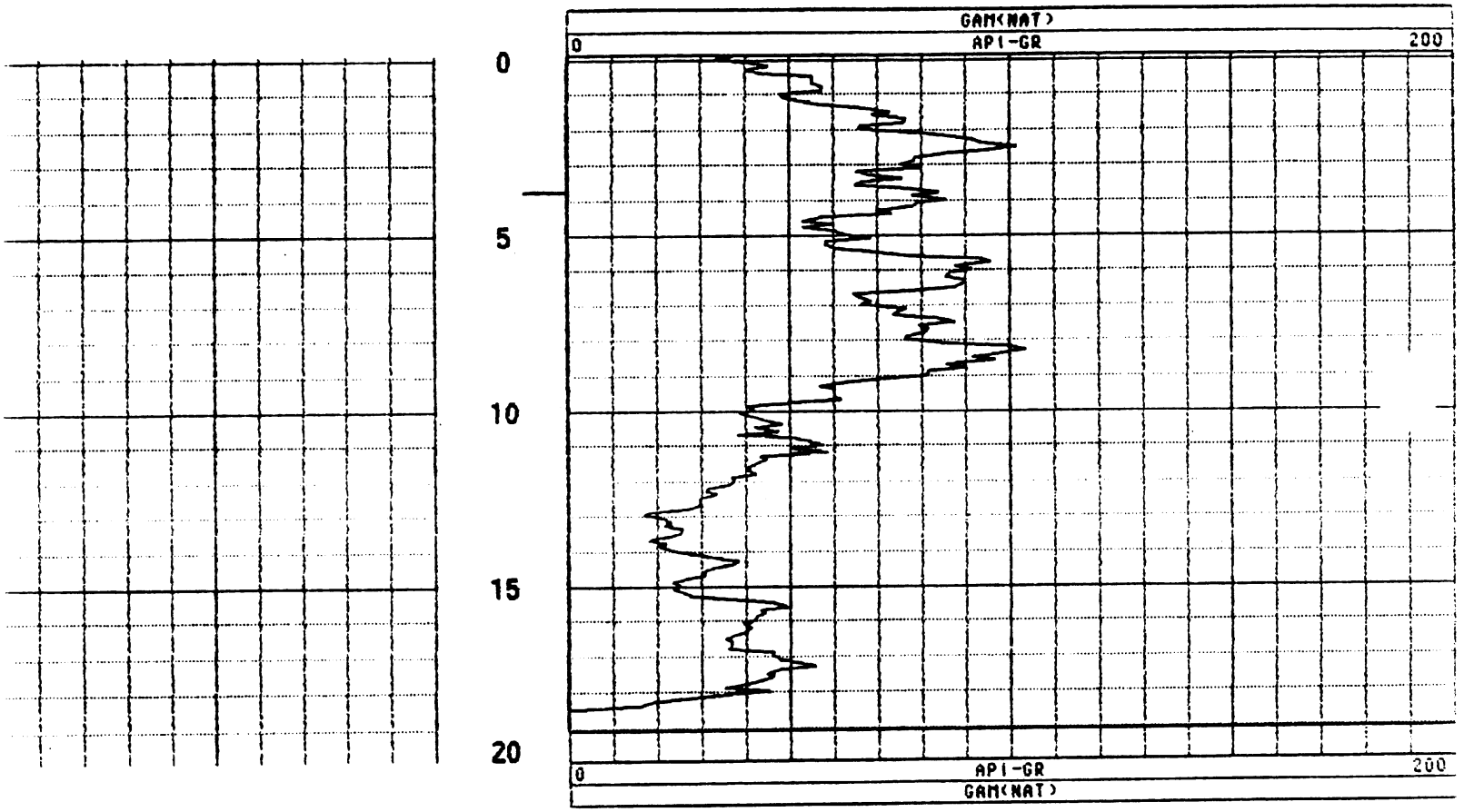
GAM(NAT)

Century GEOPHYSICAL CORP.

S32.8SB9

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: S32.8SB9				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 11/03/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 19.5	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 19.10	LOG MEASURED FROM:	G.L.	DF	:
LOG TOP	: -1.40	DRL MEASURED FROM:	G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT VASEK		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9010A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 1
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: TINKER :
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH	: 500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

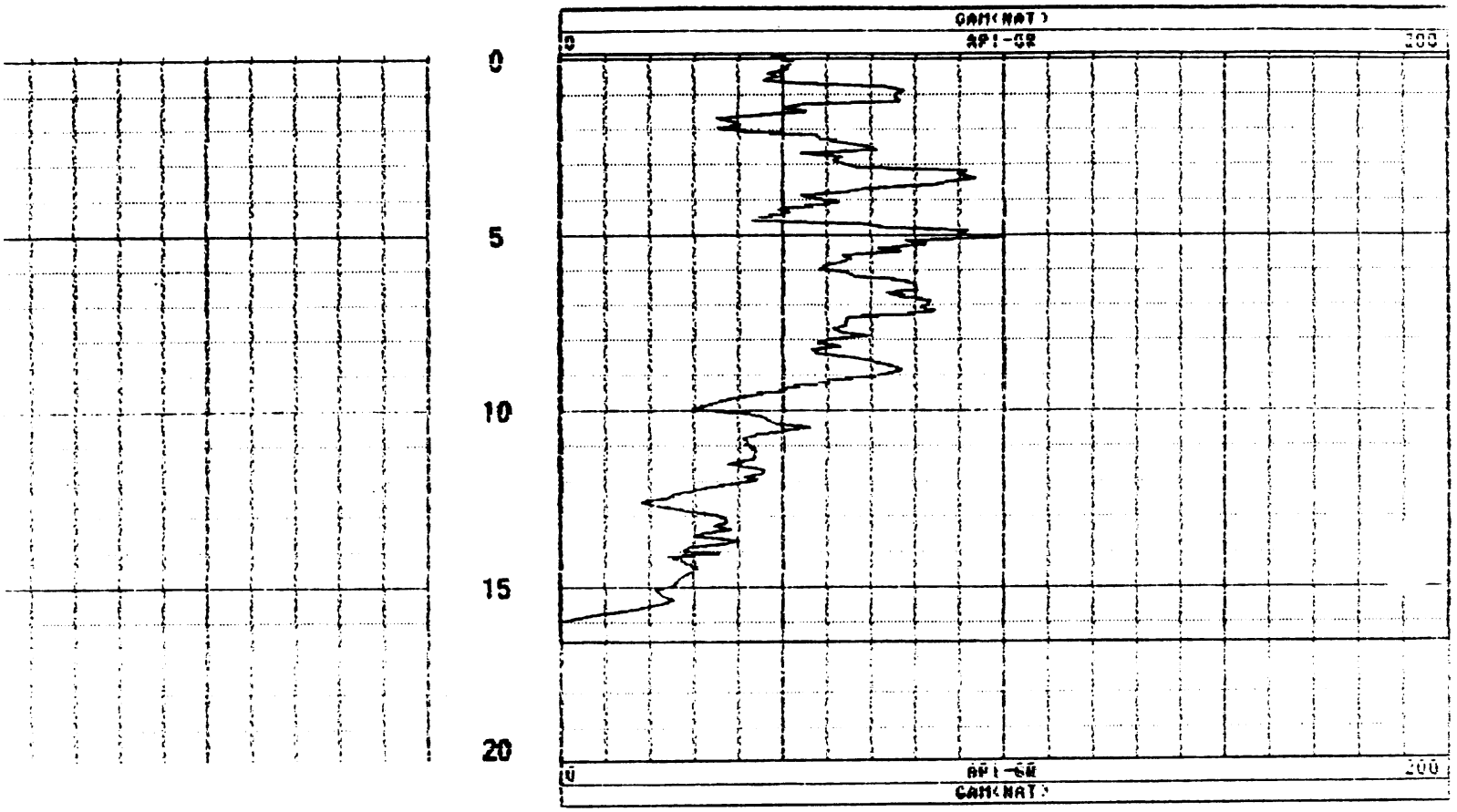

GAM(NAT)
0
API-GR
200
0
5
10
15
20
0
API-GR
200
GAM(NAT)

Century GEOPHYSICAL CORP.

I24.10SB5

COMPANY	: ENGINEERING SCIENCE		OTHER SERVICES:
WELL	: I24.10SB5		
LOCATION/FIELD	: TINKER AFB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION	:	TOWNSHIP :	RANGE :
DATE	: 11/04/93	PERMANENT DATUM :	ELEVATIONS
DEPTH DRILLER	: 18	ELEV. PERM. DATUM	KB
LOG BOTTOM	: 16.6#	LOG MEASURED FROM: G.L.	DF
LOG TOP	: -1.10	DRL MEASURED FROM: G.L.	GL
CASING DRILLER	:	LOGGING UNIT : 9302	
CASING TYPE	: -	FIELD OFFICE : LAS VEGAS	
CASING THICKNESS	:	RECORDED BY : ROBERT YASER	
BIT SIZE	: 8	BOREHOLE FLUID :	FILE : ORIGINAL
MAGNETIC DECL.	:	RM :	TYPE : 9010A
MATRIX DENSITY	:	RM TEMPERATURE	LOG :
FLUID DENSITY	:	MATRIX DELTA T	PLOT : TINKER
MEDIUM MATRIX	:	FLUID DELTA T	[illegible]
REMARKS	:		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


CAM(NAT)
0
API-GR
200
0
5
10
15
20
0
API-GR
200
CAM(NAT)

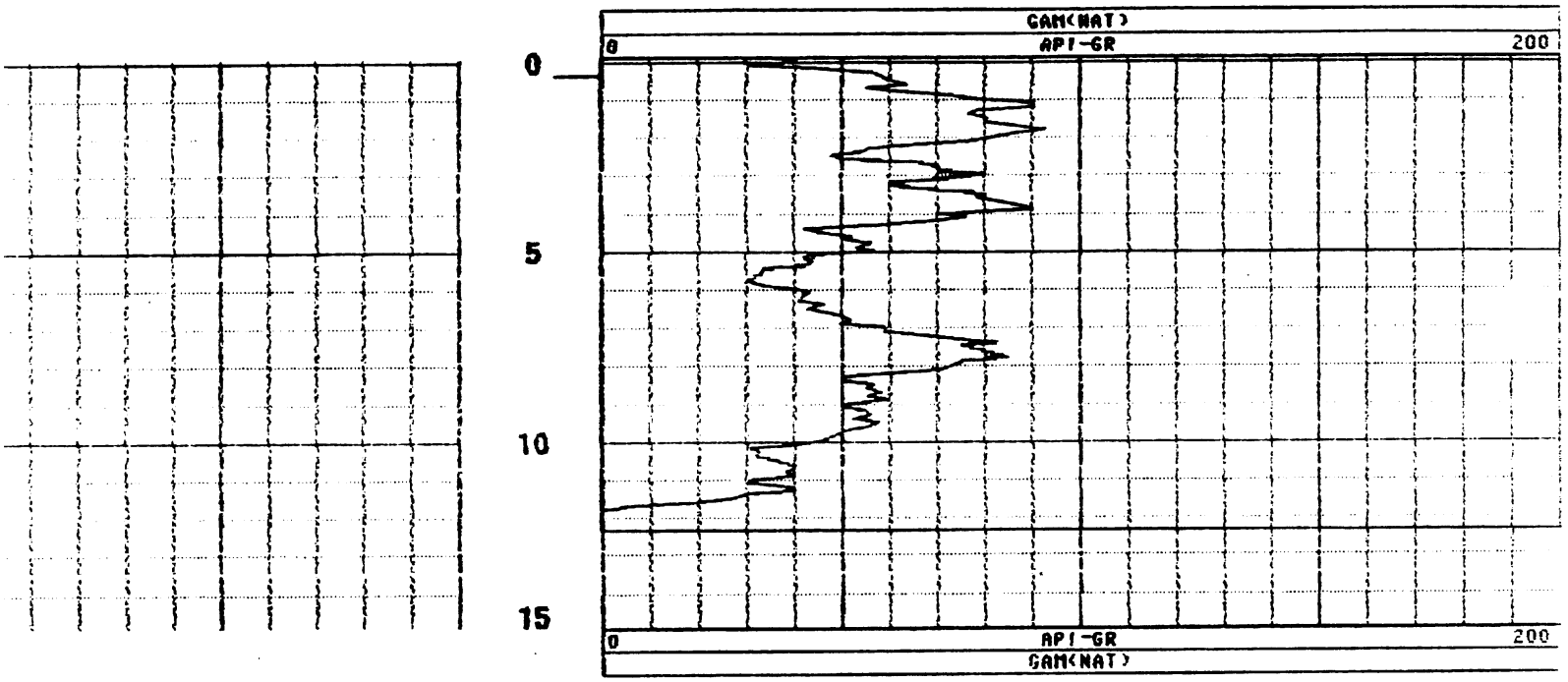
CGC

Century GEOPHYSICAL CORP.

I24.10SB4

COMPANY	: ENGINEERING SCIENCE	OTHER SERVICES:	
WELL	: I24.10SB4		
LOCATION/FIELD	: TINKER AFB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION	:	TOWNSHIP :	RANGE :
DATE	: 11/04/93	PERMANENT DATUM :	ELEVATIONS
DEPTH DRILLER	: 14	ELEV. PERM. DATUM:	KB :
LOG BOTTOM	: [illegible]	LOG MEASURED FROM: G.L.	DF :
LOG TOP	: 1 10	DRL MEASURED FROM: G.L.	GL :
CASING DRILLER	:	LOGGING UNIT : 9302	
CASING TYPE	:	FIELD OFFICE : LAS VEGAS	
CASING THICKNESS	:	RECORDED BY : ROBERT YASEK	
BIT SIZE	: 8	BOREHOLE FLUID :	FILE : ORIGINAL
MAGNETIC DECL.	:	RM :	TYPE : 9010A
MATRIX DENSITY	:	RM TEMPERATURE :	LOG : 5
FLUID DENSITY	:	MATRIX DELTA T :	PLOT : TINKER 1
NEUTRON MATRIX	:	FLUID DELTA T :	[illegible]
REMARKS			

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

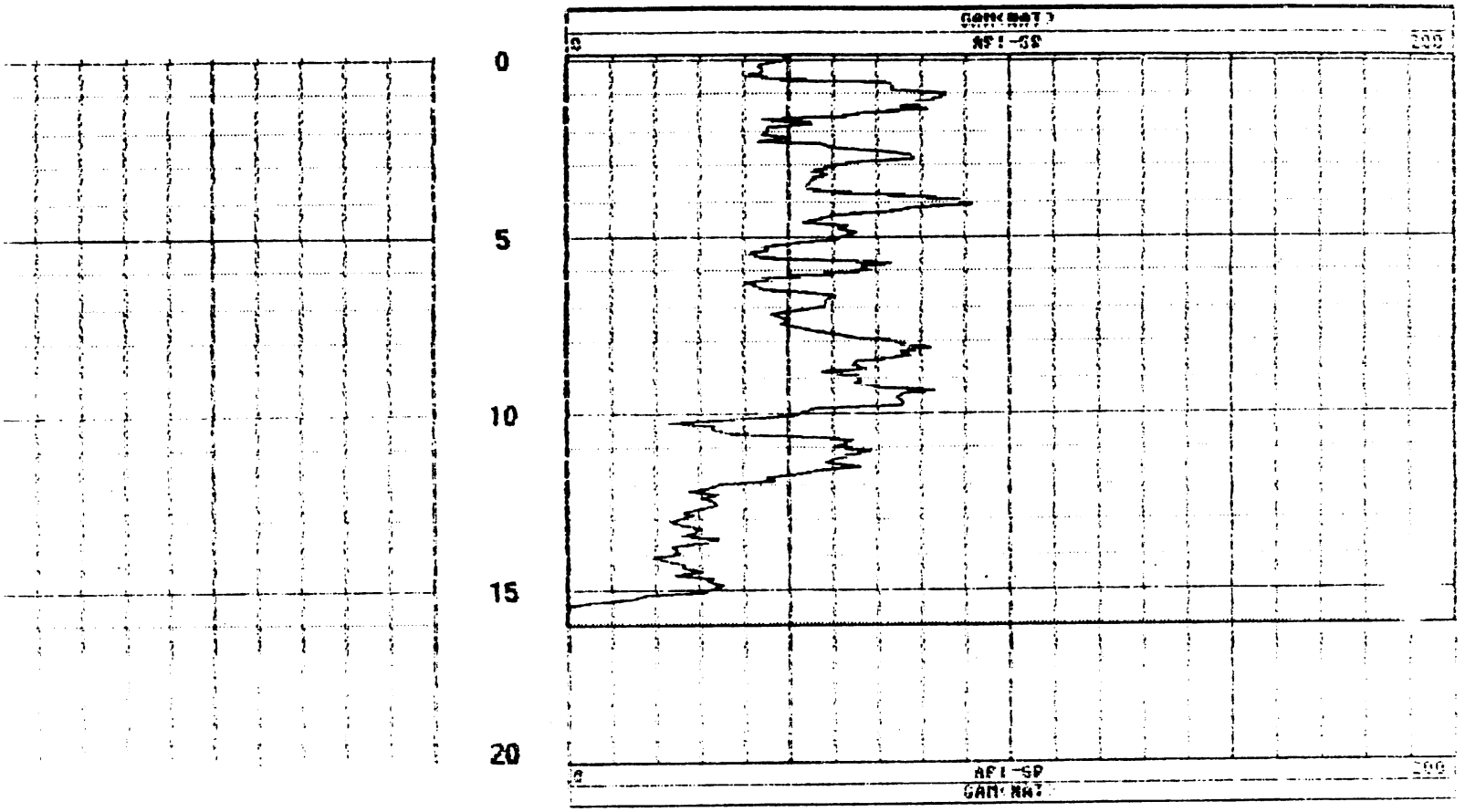

GAM(NAT)
0
API-GR
200
0
5
10
15
0
API-GR
200
GAM(NAT)

Century GEOPHYSICAL CORP.

124.8SB3

COMPANY	: ENGINEERING SCIENCE	OTHER SERVICES	
WELL	: 124.8SB3		
LOCATION/FIELD	: TINKER AFB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION	:	TOWNSHIP :	RANGE :
DATE	: 11/04/93	PERMANENT DATUM :	ELEVATIONS
DEPTH DRILLER	: 18	ELEV. TERM. DATUM	KB :
LOG BOTTOM	: [illegible]	LOG MEASURED FROM	DF :
LOG TOP	: [illegible]	DRL MEASURED FROM	GL :
CASING DRILLER	:	LOGGING UNIT	: [illegible]
CASING TYPE	:	FIELD OFFICE	: LAS VEGAS
CASING THICKNESS	: -	RECORDED BY	: ROBERT YASER
BIT SIZE	: 8	BOREHOLE FLUID	FILE : ORIGINAL
MAGNETIC DECL.	:	RM :	TYPE : [illegible]
MATRIX DENSITY	:	RM TEMPERATURE :	LOG : [illegible]
FLUID DENSITY		MATRIX DELTA T	[illegible]
[illegible]		FLUID DELTA T	[illegible]
REMARKS			

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


0
5
10
15
20

Century GEOPHYSICAL CORP.

I24.10SB3

COMPANY	: ENGINEERING SCIENCE		
WELL	: I24.10SB3		
LOCATION/FIELD	: TINKER AFB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION	:	TOWNSHIP :	RANGE :

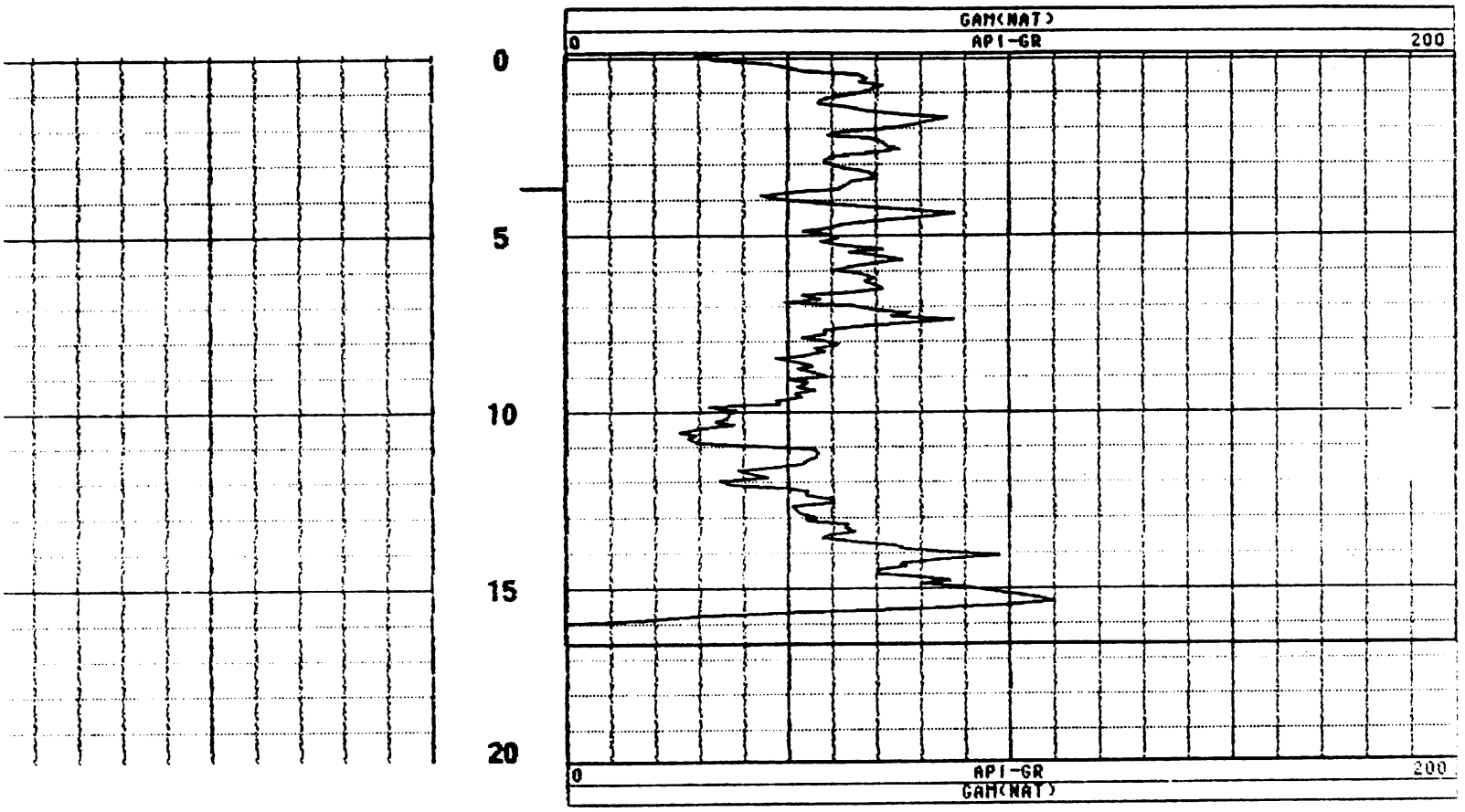
OTHER SERVICES:

DATE	: 11/09/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 19	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 16.60	LOG MEASURED FROM	: G.L.	DF	:
LOG TOP	: -1.20	DRL MEASURED FROM	: G.L.	GL	:

CASING DRILLER	: -	LOGGING UNIT	: 9302
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS
CASING THICKNESS	: -	RECORDED BY	: ROBERT YASEK

BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 30100
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 7
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: TINKER 1
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH	: 500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


GAM(NAT)
0
API-GR
200
0
5
10
15
20
0
API-GR
200
GAM(NAT)

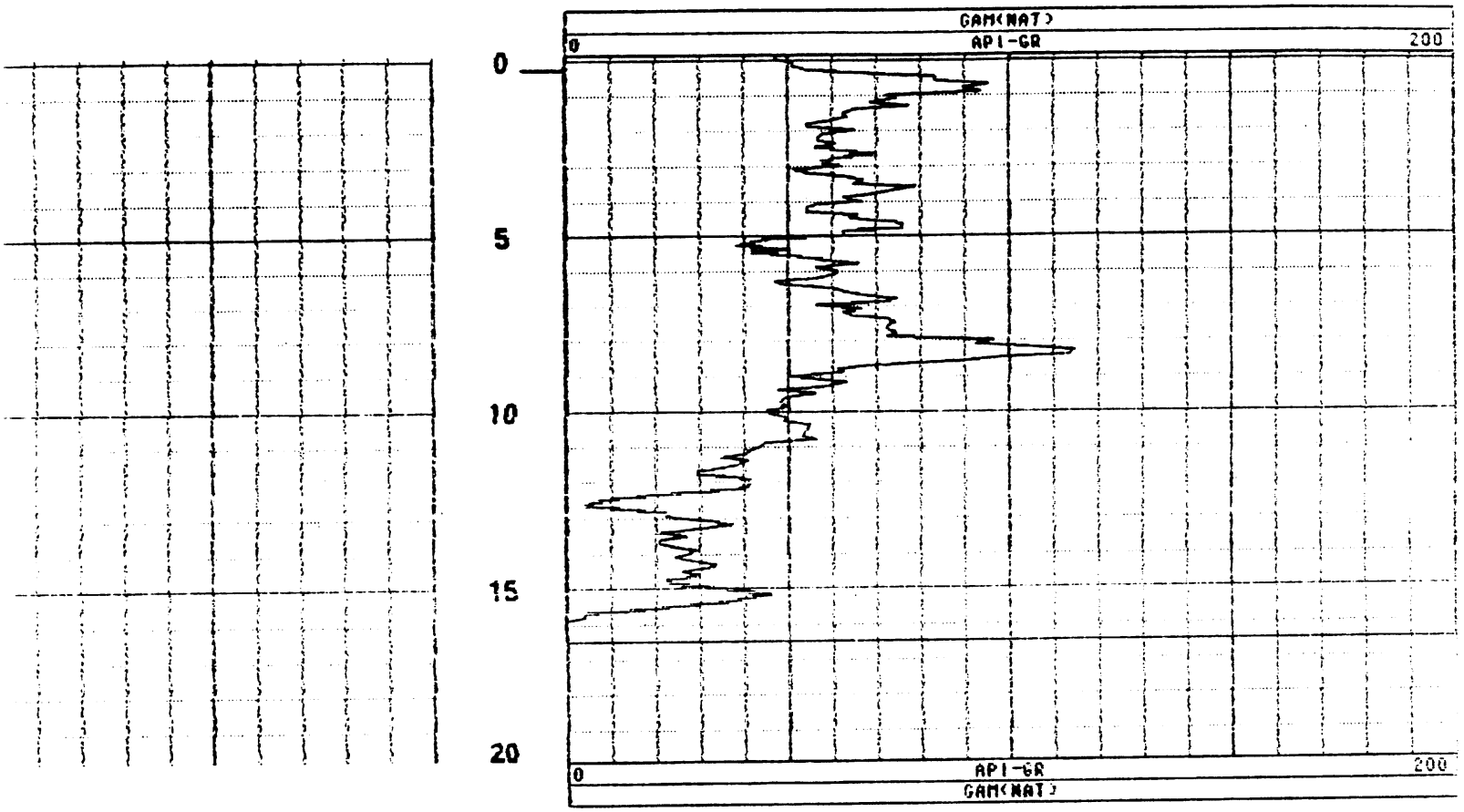
CGC

Century GEOPHYSICAL CORP.

I24.11SB2

COMPANY	: ENGINEERING SCIENCE	OTHER SERVICES:	
WELL	: I24.11SB2		
LOCATION/FIELD	: TINKER AFB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION	:	TOWNSHIP :	RANGE :
DATE	: 11/04/93	PERMANENT DATUM :	ELEVATIONS
DEPTH DRILLER	17.5	ELEV. PERM. DATUM	KB
LOG BOTTOM	: 16.58	LOG MEASURED FROM: C.L.	DF
LOG TOP	: -1.00	DRL MEASURED FROM: C.L.	GL
CASING DRILLER	:	LOGGING UNIT : 9302	
CASING TYPE	:	FIELD OFFICE : LAS VEGAS	
CASING THICKNESS	:	RECORDED BY : ROBERT YASEK	
BIT SIZE	: 6	BOREHOLE FLUID :	FILE : ORIGINAL
MAGNETIC DECL.	:	RM :	TYPE : 9010A
MATRIX DENSITY	:	RM TEMPERATURE :	LOG : 4
FLUID DENSITY	:	MATRIX DELTA T :	VEST : TINKER
NEUTRON MATRIX	:	FLUID DELTA T :	THRESH: [illegible]
REMARKS	:		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

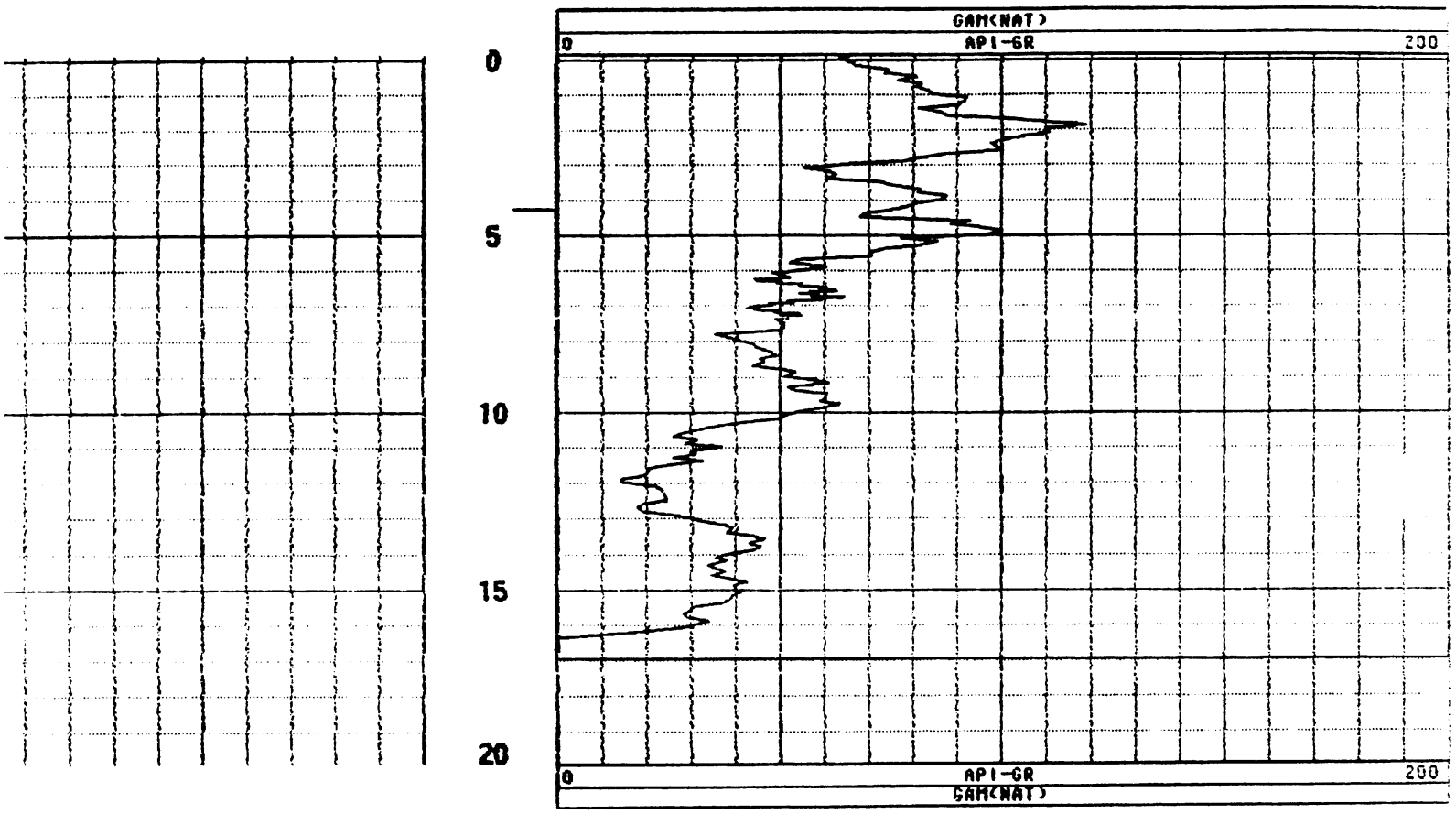

GAM(NAT)
0
API-GR
200
0
5
10
15
20
0
API-GR
200
GAM(NAT)

Century GEOPHYSICAL CORP.

I24.12SB6

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: I24.12SB6				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 11/04/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 17.5	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 17.00	LOG MEASURED FROM:	G.L.	DF	:
LOG TOP	: -1.00	DRL MEASURED FROM:	G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT VASEK		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 90100
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 6
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: TINKER :
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH:	500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

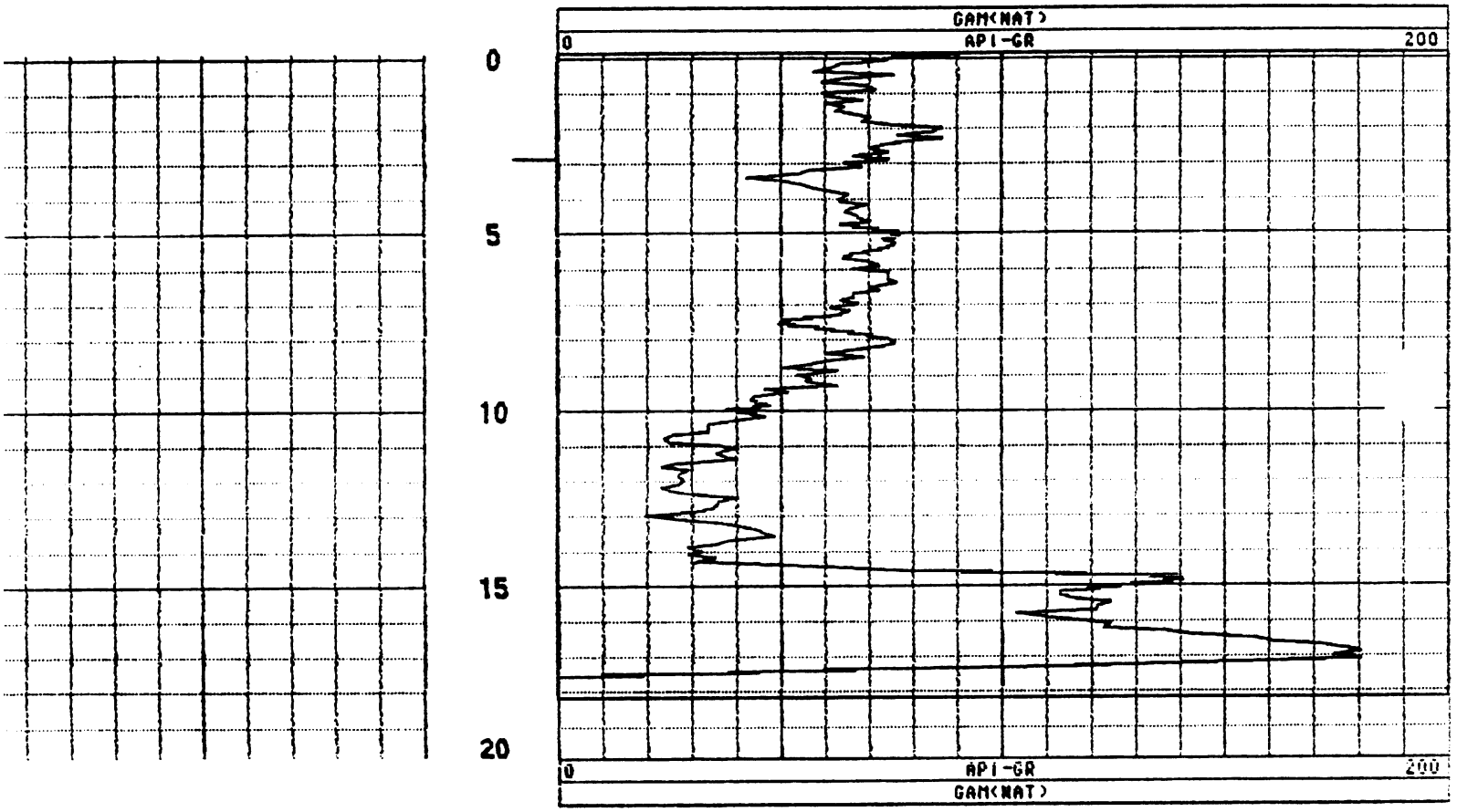

GAM(NAT)
0
API-GR
200
0
5
10
15
20
0
API-GR
200
GAM(NAT)

Century GEOPHYSICAL CORP.

I24.9SB1

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: I24.9SB1				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 11/04/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 18.5	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 18.20	LOG MEASURED FROM:	G.L.	DF	:
LOG TOP	: -0.70	DRL MEASURED FROM:	G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT YASEK		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9010A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 0
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: TINKER 1
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH	: 500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

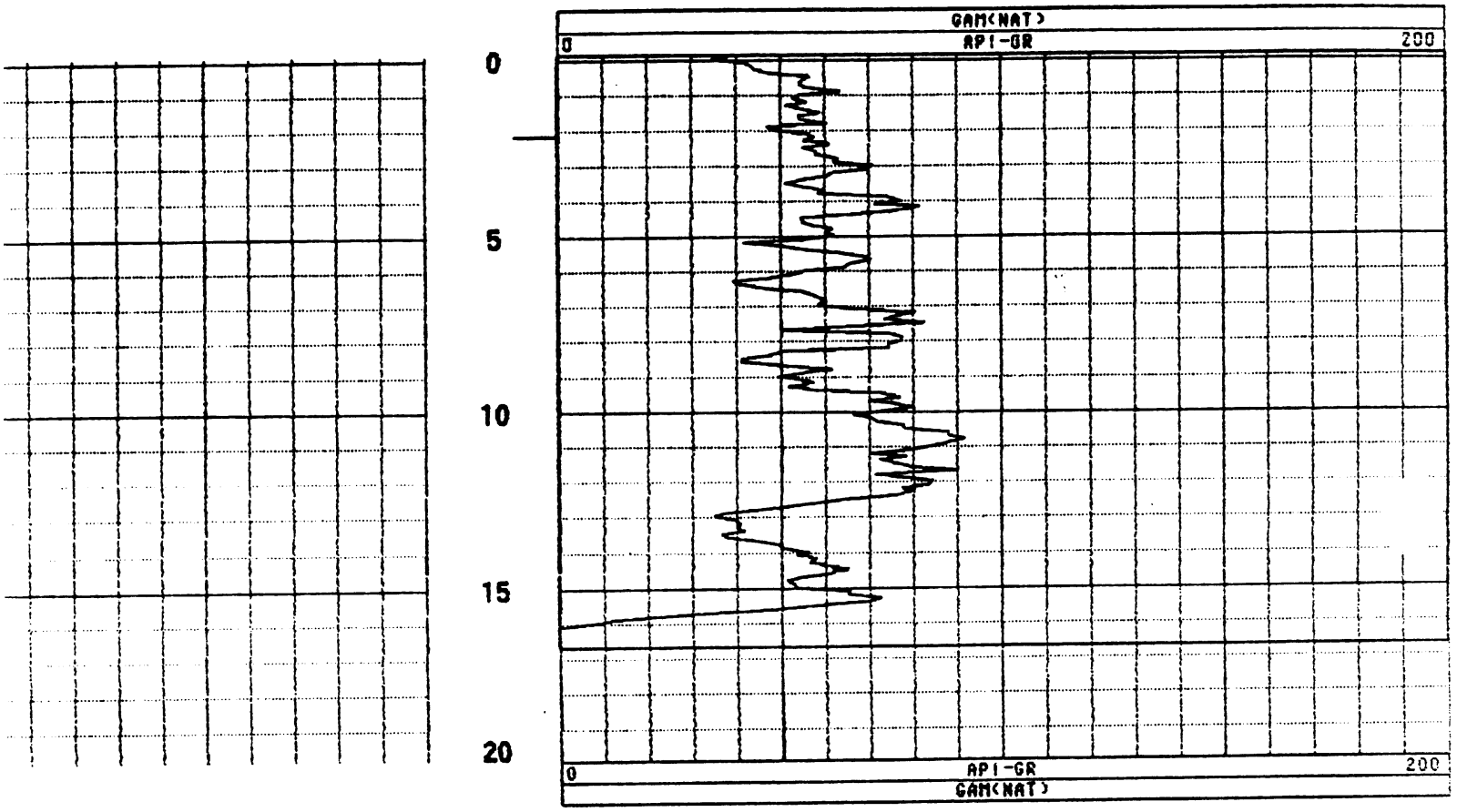

GAM(NAT)
0
API-GR
200
0
5
10
15
20
0
API-GR
200
GAM(NAT)

Century GEOPHYSICAL CORP.

124.8SB2

COMPANY	: ENGINEERING SCIENCE	OTHER SERVICES:	
WELL	: 124.8SB2		
LOCATION/FIELD	: TINKER AFB		
COUNTY	: OKLAHOMA		
STATE	: OKLAHOMA		
SECTION	:	TOWNSHIP :	RANGE :
DATE	: 11/04/93	PERMANENT DATUM :	ELEVATIONS
DEPTH DRILLER	: 17.5	ELEV. PERM. DATUM:	KB :
LOG BOTTOM	: 16.70	LOG MEASURED FROM: G.L.	DF :
LOG TOP	: -1.00	DRL MEASURED FROM: G.L.	GL :
CASING DRILLER	: -	LOGGING UNIT : 9302	
CASING TYPE	: -	FIELD OFFICE : LAS VEGAS	
CASING THICKNESS	: -	RECORDED BY : ROBERT YASEK	
BIT SIZE	: 8	BOREHOLE FLUID :	FILE : ORIGINAL
MAGNETIC DECL.	:	RM :	TYPE : 9010A
MATRIX DENSITY	:	RM TEMPERATURE :	LOG : 1
FLUID DENSITY	:	MATRIX DELTA T :	PLOT : TINKER 1
NEUTRON MATRIX	:	FLUID DELTA T :	THRESH: 500000
REMARKS	:		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

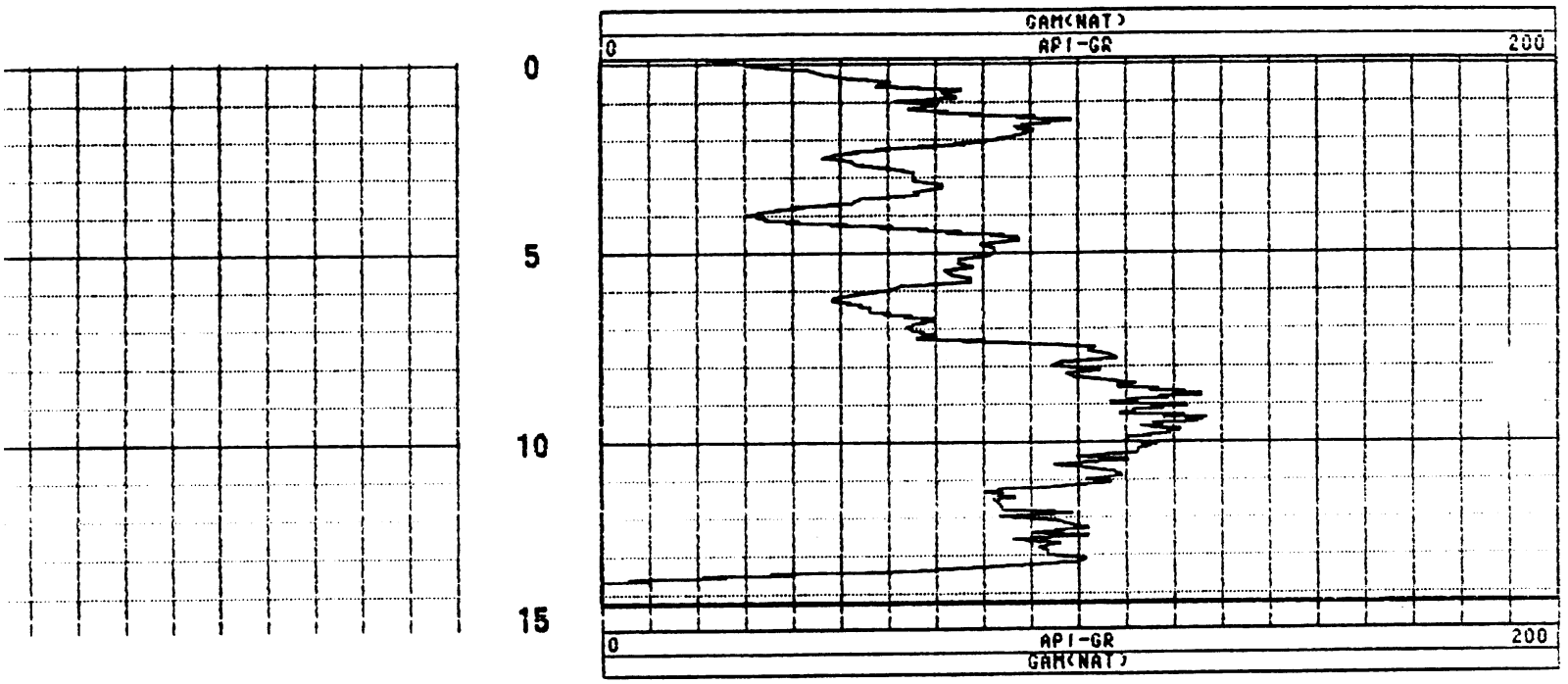

GAM(NAT)
0
API-GR
200
0
5
10
15
20
0
API-GR
200
GAM(NAT)

Century GEOPHYSICAL CORP.

I24.2SB3

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: I24.2SB3				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 11/04/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 17.5	ELEV. PERM. DATUM:		KB	:
LOG BOTTOM	: 14.30	LOG MEASURED FROM:	G.L.	DF	:
LOG TOP	: -1.40	DRL MEASURED FROM:	G.L	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT VASEK		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9010A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 2
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: TINKER
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH	: .500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


GAM(NAT)
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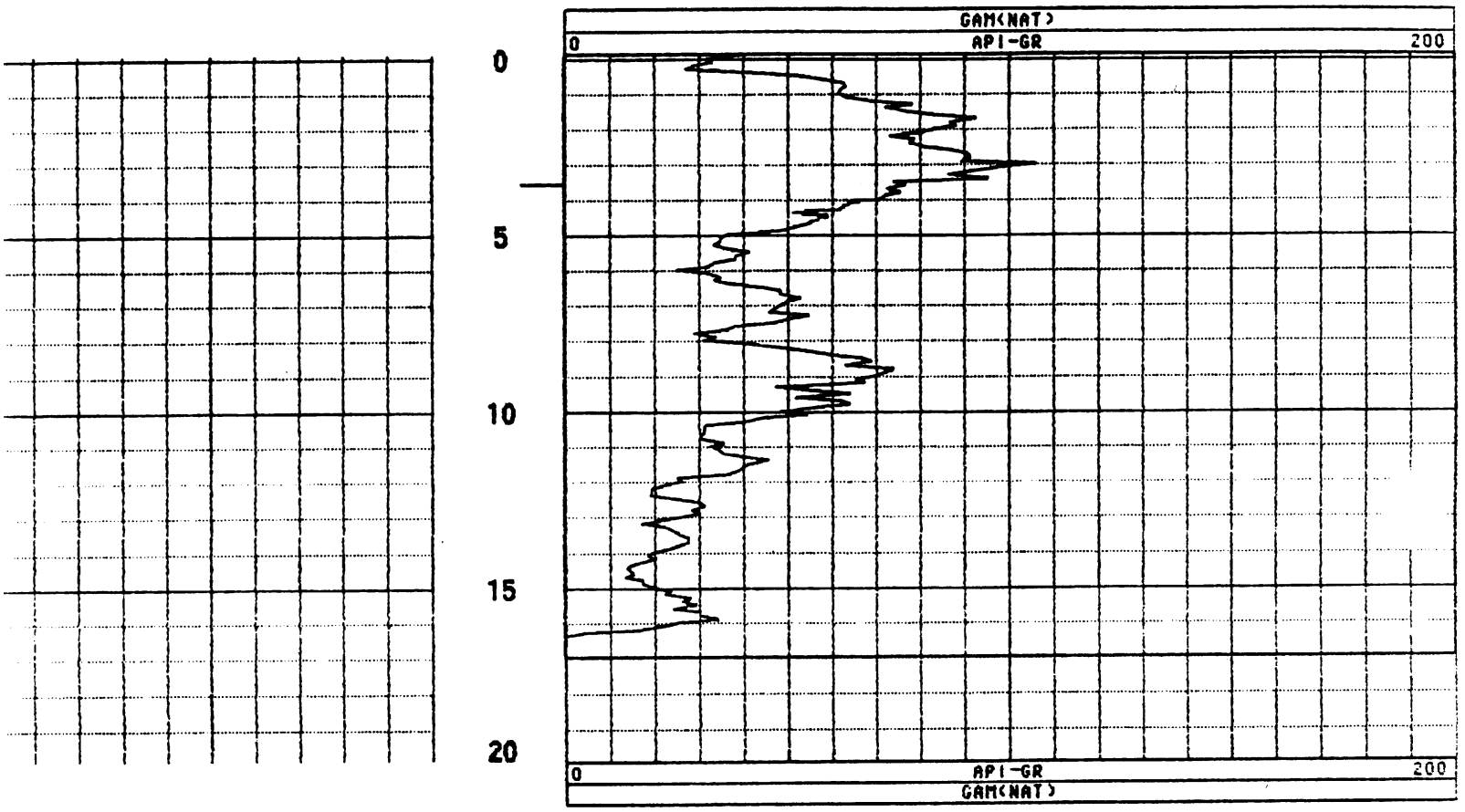
API-GR
200
0
5
10
15
0
API-GR
200
GAM(NAT)

Century GEOPHYSICAL CORP.

S32.8SB18

COMPANY	: ENGINEERING SCIENCE			OTHER SERVICES:	
WELL	: S32.8SB18				
LOCATION/FIELD	: TINKER AFB				
COUNTY	: OKLAHOMA				
STATE	: OKLAHOMA				
SECTION	:	TOWNSHIP	:	RANGE	:
DATE	: 11/04/93	PERMANENT DATUM	:	ELEVATIONS	
DEPTH DRILLER	: 18	ELEV. PERM. DATUM	:	KB	:
LOG BOTTOM	: 17.00	LOG MEASURED FROM	: G.L.	DF	:
LOG TOP	: -0.80	DRL MEASURED FROM	: G.L.	GL	:
CASING DRILLER	: -	LOGGING UNIT	: 9302		
CASING TYPE	: -	FIELD OFFICE	: LAS VEGAS		
CASING THICKNESS	: -	RECORDED BY	: ROBERT YASEK		
BIT SIZE	: 8	BOREHOLE FLUID	:	FILE	: ORIGINAL
MAGNETIC DECL.	:	RM	:	TYPE	: 9010A
MATRIX DENSITY	:	RM TEMPERATURE	:	LOG	: 2
FLUID DENSITY	:	MATRIX DELTA T	:	PLOT	: TINKER 1
NEUTRON MATRIX	:	FLUID DELTA T	:	THRESH	: 500000
REMARKS	:				

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


GAM(NAT)
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API-GR
200
0
5
10
15
20
0
API-GR
200
GAM(NAT)

Appendix D

WWTF Survey Data

SDR2 V02-08S(3)	Copyright 1985 by Datacom Group Ltd. All rights reserved. Serial no 7292	05-Nov-93 11:22	
	Angle : Degrees Temp : Fahrenht	Dist : Feet Coord : N-E-Elv	Press : Inch Hg H.obs : Right
JOB	Job id TAFB.1		
NOTE	FOR ENGINEERING SCIENCE		
NOTE	21-OCT-93		
SCALE	S.F. 1.000000000		
NOTE CP	Sea level crn:N		
NOTE CP	C and R crn : N		
NOTE CP	Atmos crn : N		
NOTE TS	21-Oct-93 13:36		
INSTR	SET Theo <No Text> V.obs : Zenith P.C. mm 0.000	EDM <No Text> Serial no 000000 Edm o/s <Null>	Serial no 000000 Mount: not applc Refl o/s <Null>
STN TP 0025	Nrth 156266.175 Theo ht 5.090	East 2186885.966 Code <No Text>	Elv 1263.620
POS KI 0026	Nrth 156011.334 Code BS	East 2186970.956	Elv 1250.780
TRGET	Target ht 5.000		
BKB TP 0025-0026	Azmth 161-33'23"	H.obs 0-00'00"	
OBS F1 0025-0026	Dist 268.930 Code BS	V.obs 92-45'25"	H.obs 0-00'00"
POS TP 1001	Nrth 156185.564 Code I24.3SG3	East 2186886.770	Elv 1262.154
POS TP 1002	Nrth 156165.783 Code I24.3SS2	East 2186886.697	Elv 1261.982
TRGET	Target ht 8.670		
POS TP 1003	Nrth 156163.369 Code I24.3SG4	East 2186876.226	Elv 1262.231
TRGET	Target ht 12.230		
POS TP 1004	Nrth 156156.519 Code SB	East 2186870.984	Elv 1262.159
POS TP 1005	Nrth 156161.053 Code I24.3SG13	East 2186899.597	Elv 1261.039
POS TP 1006	Nrth 156132.307 Code I24.2SG15	East 2186897.195	Elv 1259.825
POS TP 1007	Nrth 156153.084 Code I24.3SS3	East 2186856.910	Elv 1261.901

POS TP 1008	Nrth 156145.484 Code I24.2SS1	East 2186848.148	Elv 1261.591
POS TP 1009	Nrth 156143.464 Code SB	East 2186845.197	Elv 1261.667
POS TP 1010	Nrth 156140.713 Code I24.2SG1	East 2186845.377	Elv 1261.501
TRGET	Target ht 15.850		
POS TP 1011	Nrth 156154.153 Code I24.3SG5	East 2186814.081	Elv 1263.017
POS TP 1012	Nrth 156165.950 Code I24.3SG14	East 2186792.629	Elv 1263.899
POS TP 1013	Nrth 156188.966 Code I24.3SG6	East 2186804.044	Elv 1264.769
POS TP 1014	Nrth 156202.192 Code I24.1SG2	East 2186791.539	Elv 1265.399
POS TP 1015	Nrth 156208.333 Code I24.2SG7	East 2186814.326	Elv 1265.052
POS TP 1016	Nrth 156218.420 Code I24.3SG1	East 2186835.983	Elv 1264.960
POS TP 1017	Nrth 156214.902 Code I24.3SS1	East 2186850.473	Elv 1264.576
POS TP 1018	Nrth 156206.851 Code I24.3SG2	East 2186862.527	Elv 1263.930
POS TP 1019	Nrth 156192.432 Code I24.1SG3	East 2186778.454	Elv 1265.870
TRGET	Target ht 18.850		
POS TP 1020	Nrth 156195.588 Code I24.1SG4	East 2186759.207	Elv 1266.159
POS TP 1021	Nrth 156169.499 Code I24.1SG7	East 2186777.673	Elv 1264.556
TRGET	Target ht 15.850		
POS TP 1023	Nrth 156123.848 Code I24.2SG26	East 2186790.773	Elv 1262.179
POS TP 1024	Nrth 156101.322 Code I24.2SG25	East 2186781.361	Elv 1261.470
POS TP 1025	Nrth 156061.914 Code I24.2SG24	East 2186775.128	Elv 1260.485
POS TP 1026	Nrth 156026.772 Code I24.2SG23	East 2186779.220	Elv 1258.789
POS TP 1027	Nrth 155997.597 Code I24.2SG22	East 2186791.900	Elv 1257.365
POS TP 1028	Nrth 156128.929 Code I24.2SG14	East 2186811.471	Elv 1261.340

POS TP 1029	Nrth 156102.208 Code I24.2SG13	East 2186802.733	Elv 1260.929
POS TP 1030	Nrth 156074.154 Code I24.2SG12	East 2186817.062	Elv 1259.261
POS TP 1031	Nrth 156052.853 Code I24.2SS3	East 2186809.349	Elv 1258.740
POS TP 1032	Nrth 156062.857 Code I24.2SG11	East 2186803.432	Elv 1259.452
POS TP 1033	Nrth 156027.229 Code I24.2SG10	East 2186801.353	Elv 1258.164
POS TP 1034	Nrth 155996.130 Code I24.2SG8	East 2186854.942	Elv 1255.015
POS TP 1035	Nrth 156019.519 Code I24.2SG7	East 2186881.202	Elv 1254.839
POS TP 1036	Nrth 155971.081 Code I24.2SG20	East 2186882.034	Elv 1253.082
POS TP 1037	Nrth 156019.724 Code I24.2SG19	East 2186903.959	Elv 1254.142
POS TP 1038	Nrth 156052.051 Code I24.2SS2	East 2186887.074	Elv 1255.995
POS TP 1039	Nrth 156056.241 Code I24.2SG18	East 2186893.691	Elv 1256.048
POS TP 1040	Nrth 156081.530 Code I24.2SG17	East 2186899.230	Elv 1257.559
POS TP 1041	Nrth 156084.528 Code I24.2SG4	East 2186876.452	Elv 1258.378
POS TP 1042	Nrth 156066.966 Code I24.2SS4	East 2186846.709	Elv 1257.359
POS TP 1043	Nrth 156068.995 Code I24.2SG5	East 2186846.428	Elv 1257.126
POS TP 1044	Nrth 156055.934 Code I24.2SG6	East 2186869.540	Elv 1257.364
POS TP 1045	Nrth 156107.812 Code I24.2SG3	East 2186878.692	Elv 1259.277
POS TP 1046	Nrth 156105.672 Code I24.2SG16	East 2186902.326	Elv 1258.701
POS TP 1047	Nrth 156130.086 Code I24.2SG2	East 2186865.642	Elv 1260.322
TRGET	Target ht 8.670		
POS TP 1048	Nrth 156184.800 Code I24.3SG12	East 2186912.259	Elv 1261.485
POS TP 1049	Nrth 156189.381 Code I24.5SG8	East 2186945.252	Elv 1260.896
POS TP 1050	Nrth 156131.084	East 2186942.781	Elv 1258.491

	Code I24.5SG7		
POS TP 1051	Nrth 156103.495 Code I24.5SS2	East 2186947.138	Elv 1257.457
POS TP 1052	Nrth 156095.064 Code I24.5SG6	East 2186942.442	Elv 1257.362
STN TP 0025	Nrth 156266.175 Theo ht 5.240	East 2186885.966 Code OCC	Elv 1263.620
ATMOS	Press 30.00 inHg	Temp 60.0 F	
TRGET	Target ht 5.000		
BKB TP 0025-0026	Azmth 161-33'23"	H.obs 0-00'00"	
OBS F1 0025-0026	Dist 268.990 Code BS	V.obs 92-47'10"	H.obs 0-00'00"
POS TP 1053	Nrth 156245.471 Code I24.3SG9	East 2186835.607	Elv 1264.964
POS TP 1054	Nrth 156245.550 Code I24.1SG6	East 2186801.806	Elv 1265.707
POS TP 1055	Nrth 156236.665 Code I24.1SG5	East 2186771.359	Elv 1266.273
TRGET	Target ht 0.250		
POS TP 1056	Nrth 156211.457 Code I24.1SG1	East 2186771.941	Elv 1266.053
TRGET	Target ht 12.230		
POS TP 1057	Nrth 155999.275 Code I24.2SG9	East 2186816.626	Elv 1256.750
POS TP 1058	Nrth 155975.347 Code I24.2SG21	East 2186849.007	Elv 1255.301
POS TP 1059	Nrth 155854.466 Code RCP1SG6	East 2186914.539	Elv 1248.476
POS TP 1060	Nrth 155894.757 Code S32.1SG3	East 2186933.751	Elv 1251.083
POS TP 1061	Nrth 155909.780 Code S32.1SG1	East 2186935.379	Elv 1249.756
TRGET	Target ht 10.670		
POS TP 1062	Nrth 155890.795 Code S32.1SG2	East 2186965.179	Elv 1248.069
TRGET	Target ht 5.000		
POS TP 1063	Nrth 155900.017 Code S32.1SS1	East 2186959.625	Elv 1246.437
POS TP 1064	Nrth 155952.686 Code S32.3SG3	East 2186949.789	Elv 1247.273
POS TP 1065	Nrth 155982.813 Code S32.3SG4	East 2186949.077	Elv 1247.425

TRGET	Target ht 12.230		
POS TP 1066	Nrth 156084.474 Code I24.2SG4	East 2186876.635	Elv 1258.474
TRGET	Target ht 15.850		
POS TP 1068	Nrth 156208.302 Code I24.3SG7	East 2186814.323	Elv 1265.044
TRGET	Target ht 5.000		
POS TP 1069	Nrth 156207.435 Code I24.3SG11	East 2186887.354	Elv 1262.611
POS TP 1070	Nrth 156234.225 Code I24.3SG10	East 2186869.594	Elv 1263.879
STN TP 0026	Nrth 156011.334 Theo ht 4.960	East 2186970.956 Code OCC	Elv 1250.780
ATMOS	Press 30.00 inHg	Temp 65.0 F	
BKB TP 0026-0025	Azmth 341-33'23"	H.obs 0-00'00"	
OBS F1 0026-0025	Dist 268.970 Code BS	V.obs 87-15'50"	H.obs 0-00'00"
POS TP 1071	Nrth 155845.599 Code RCP1SG8	East 2186870.052	Elv 1249.324
POS TP 1072	Nrth 155869.761 Code RCP1SG3	East 2186865.625	Elv 1249.833
TRGET	Target ht 12.230		
POS TP 1073	Nrth 155872.886 Code RCP1SS1	East 2186854.013	Elv 1250.160
POS TP 1074	Nrth 155874.231 Code RCP1SG4	East 2186854.143	Elv 1250.163
POS TP 1075	Nrth 155890.118 Code RCP1SG1	East 2186868.533	Elv 1250.782
POS TP 1076	Nrth 155886.926 Code RCP1SG2	East 2186885.188	Elv 1250.298
TRGET	Target ht 15.850		
POS TP 1077	Nrth 155914.075 Code RCP1SG5	East 2186869.282	Elv 1251.509
TRGET	Target ht 19.500		
POS TP 1078	Nrth 155874.237 Code RCP1SG10	East 2186829.362	Elv 1251.376
TRGET	Target ht 8.670		
POS TP 1079	Nrth 155846.255 Code RCP1SG9	East 2186843.410	Elv 1249.846
POS TP 1080	Nrth 155853.145 Code RCP1SG7	East 2186883.142	Elv 1249.153

POS TP 1081	Nrth 155928.921 Code S32.2SG3	East 2186948.872	Elv 1247.200
TRGET	Target ht 5.000		
POS TP 1082	Nrth 156082.791 Code I24.5SG5	East 2186976.978	Elv 1256.225
POS TP 1083	Nrth 156090.098 Code I24.5SG4	East 2187039.907	Elv 1254.261
TRGET	Target ht 15.850		
POS TP 1084	Nrth 156101.069 Code I24.5SS1	East 2187053.455	Elv 1252.920
POS TP 1085	Nrth 156116.800 Code I24.6SG4	East 2187055.537	Elv 1253.139
POS TP 1086	Nrth 156108.465 Code I24.6SG3	East 2187070.469	Elv 1252.841
POS TP 1087	Nrth 156108.318 Code I24.6SG2	East 2187089.609	Elv 1252.325
POS TP 1088	Nrth 156124.823 Code I24.6SG1	East 2187070.487	Elv 1253.351
TRGET	Target ht 18.350		
POS TP 1089	Nrth 156153.633 Code I24.5SG3	East 2187064.723	Elv 1254.679
TRGET	Target ht 22.850		
POS TP 1090	Nrth 156198.729 Code I24.5SG2	East 2187059.307	Elv 1254.472
TRGET	Target ht 8.670		
POS TP 1091	Nrth 156136.552 Code I24.7SG1	East 2187140.906	Elv 1250.089
POS TP 1092	Nrth 156072.358 Code I24.8SG6	East 2187222.099	Elv 1244.877
TRGET	Target ht 15.850		
POS TP 1093	Nrth 156042.777 Code I24.11SG1	East 2187219.113	Elv 1242.970
POS TP 1094	Nrth 156031.818 Code I24.10SG6	East 2187231.601	Elv 1243.236
POS TP 1095	Nrth 156012.660 Code I24.11SG2	East 2187219.211	Elv 1242.231
POS TP 1096	Nrth 156001.362 Code I24.10SG5	East 2187230.428	Elv 1242.849
POS TP 1097	Nrth 155981.683 Code I24.11SG3	East 2187225.999	Elv 1242.106
POS TP 1098	Nrth 155959.004 Code I24.12SG12	East 2187222.524	Elv 1241.827

POS TP 1099	Nrth 155940.644 Code I24.12SG11	East 2187218.986	Elv 1241.172
TRGET	Target ht 5.000		
POS TP 1100	Nrth 155919.417 Code I24.12SG10	East 2187219.280	Elv 1240.703
TRGET	Target ht 10.670		
POS TP 1101	Nrth 155907.605 Code I24.12SG5	East 2187241.519	Elv 1240.602
TRGET	Target ht 12.230		
POS TP 1102	Nrth 155907.755 Code I24.12SG4	East 2187264.026	Elv 1240.443
POS TP 1103	Nrth 155927.103 Code I24.2SG3	East 2187280.337	Elv 1240.175
TRGET	Target ht 15.850		
POS TP 1104	Nrth 155957.520 Code I24.12SG2	East 2187282.835	Elv 1241.033
POS TP 1105	Nrth 155971.438 Code I24.12SG1	East 2187268.114	Elv 1241.678
POS TP 1106	Nrth 155979.708 Code I24.10SG4	East 2187249.031	Elv 1242.556
POS TP 1107	Nrth 155992.823 Code I24.10SG3	East 2187275.717	Elv 1241.955
POS TP 1108	Nrth 156027.224 Code I24.10SG2	East 2187276.225	Elv 1242.002
POS TP 1109	Nrth 156047.255 Code I24.10SG1	East 2187275.253	Elv 1242.408
POS TP 1110	Nrth 156061.285 Code I24.8SG5	East 2187250.072	Elv 1243.224
POS TP 1111	Nrth 156067.776 Code I24.8SG4	East 2187268.745	Elv 1242.234
POS TP 1112	Nrth 156086.071 Code I24.8SG3	East 2187287.276	Elv 1242.474
POS TP 1113	Nrth 156068.637 Code I24.9SG3	East 2187309.284	Elv 1241.412
POS TP 1114	Nrth 156089.418 Code I24.9SG2	East 2187329.232	Elv 1241.597
POS TP 1115	Nrth 156107.017 Code I24.9SG1	East 2187321.939	Elv 1242.350
STN TP 0026	Nrth 156011.334 Theo ht 5.120	East 2186970.956 Code OCC	Elv 1250.780
ATMOS	Press 30.00 inHg	Temp 70.0 F	
TRGET	Target ht 5.000		

BKB TP 0026-0025	Azmth 341-33'23"	H.obs 0-00'00"	
OBS F1 0026-0025	Dist 268.970 Code BS	V.obs 87-17'40"	H.obs 0-00'00"
POS TP 1116	Nrth 155993.865 Code S32.3SS1	East 2186961.462	Elv 1246.287
POS TP 1117	Nrth 155999.771 Code S32.3SG1	East 2186987.009	Elv 1246.721
POS TP 1118	Nrth 156002.371 Code S32.4SG11	East 2187014.514	Elv 1241.418
POS TP 1119	Nrth 156029.840 Code S32.4SG12	East 2187011.558	Elv 1241.848
POS TP 1120	Nrth 156047.009 Code S32.4SG1	East 2187032.155	Elv 1241.647
POS TP 1121	Nrth 156037.328 Code S32.4SG2	East 2187057.322	Elv 1240.951
POS TP 1122	Nrth 156018.749 Code S32.4SG3	East 2187067.169	Elv 1240.564
POS TP 1123	Nrth 155997.747 Code S32.4SG4	East 2187060.010	Elv 1240.789
POS TP 1124	Nrth 155987.101 Code S32.4SG5	East 2187048.736	Elv 1241.138
POS TP 1125	Nrth 155951.592 Code S32.4SG6	East 2187063.560	Elv 1240.634
POS TP 1126	Nrth 155932.869 Code S32.4SG7	East 2187053.839	Elv 1241.012
POS TP 1127	Nrth 155924.583 Code S32.4SG8	East 2187032.367	Elv 1241.640
POS TP 1128	Nrth 155932.745 Code S32.4SG9	East 2187017.444	Elv 1241.614
POS TP 1129	Nrth 155966.180 Code S32.4SG10	East 2187011.969	Elv 1241.761
POS TP 1130	Nrth 155936.458 Code S32.2SG1	East 2186999.074	Elv 1244.718
POS TP 1131	Nrth 155965.366 Code S32.3SG2	East 2186998.498	Elv 1244.735
POS TP 1132	Nrth 155999.738 Code S32.3SG1	East 2186986.854	Elv 1246.752
POS TP 1133	Nrth 155900.463 Code S32.2SG2	East 2187007.082	Elv 1243.382
POS TP 1134	Nrth 155903.700 Code S32.8SG22	East 2187037.682	Elv 1243.087
POS TP 1135	Nrth 155904.414 Code S32.8SG23	East 2187070.063	Elv 1241.046

POS TP 1136	Nrth 155904.358 Code S32.8SG1	East 2187104.758	Elv 1240.914
POS TP 1137	Nrth 155904.535 Code S32.8SS1	East 2187120.019	Elv 1240.461
POS TP 1138	Nrth 155901.712 Code S32.8SG2	East 2187129.462	Elv 1239.961
POS TP 1139	Nrth 155880.888 Code S32.8SG3	East 2187130.026	Elv 1239.909
POS TP 1140	Nrth 155855.569 Code S32.8SG4	East 2187130.809	Elv 1240.000
POS TP 1141	Nrth 155859.909 Code S32.8SS2	East 2187132.077	Elv 1239.753
POS TP 1142	Nrth 155816.622 Code S32.8SG5	East 2187130.834	Elv 1239.882
POS TP 1143	Nrth 155796.388 Code S32.8SG6	East 2187131.232	Elv 1239.871
POS TP 1144	Nrth 155767.393 Code S32.8SG7	East 2187131.063	Elv 1239.811
POS TP 1145	Nrth 155748.979 Code S32.8SG8	East 2187131.407	Elv 1239.788
POS TP 1146	Nrth 155727.110 Code S32.8SG9	East 2187132.084	Elv 1239.744
POS TP 1147	Nrth 155701.856 Code S32.8SG10	East 2187131.597	Elv 1239.578
POS TP 1148	Nrth 155702.419 Code S32.8SG11	East 2187107.977	Elv 1240.157
POS TP 1149	Nrth 155702.119 Code S32.8SG12	East 2187070.138	Elv 1240.758
TRGET	Target ht 12.230		
POS TP 1150	Nrth 155725.264 Code S32.8SG14	East 2187036.938	Elv 1243.385
POS TP 1151	Nrth 155743.663 Code S32.8SG15	East 2187036.547	Elv 1243.476
POS TP 1152	Nrth 155758.988 Code S32.8SS3	East 2187034.649	Elv 1243.481
TRGET	Target ht 8.670		
POS TP 1153	Nrth 155764.223 Code S32.8SG16	East 2187035.748	Elv 1243.533
POS TP 1154	Nrth 155780.575 Code S32.8SG17	East 2187036.190	Elv 1243.550
POS TP 1155	Nrth 155804.545 Code S32.8SG18	East 2187036.302	Elv 1243.508
POS TP 1156	Nrth 155832.710 Code S32.8SG19	East 2187035.428	Elv 1243.469

POS TP 1157	Nrth 155843.684 Code S32.8SS4	East 2187035.434	Elv 1243.485
POS TP 1158	Nrth 155858.769 Code S32.8SG20	East 2187035.691	Elv 1243.606
POS TP 1159	Nrth 155875.631 Code S32.8SG21	East 2187035.842	Elv 1243.660
TRGET	Target ht 15.580		
POS TP 1160	Nrth 155678.152 Code I24.19SG1	East 2187051.667	Elv 1241.334
POS TP 1161	Nrth 155680.367 Code I24.19SG2	East 2187108.737	Elv 1240.146
POS TP 1162	Nrth 155664.077 Code I24.19SS1	East 2187118.163	Elv 1240.293
POS TP 1163	Nrth 155650.298 Code I24.19SG3	East 2187117.093	Elv 1240.263
POS TP 1164	Nrth 155616.809 Code I24.19SG4	East 2187119.635	Elv 1240.463
POS TP 1165	Nrth 155593.852 Code I24.19SG5	East 2187118.298	Elv 1240.889
POS TP 1166	Nrth 155589.650 Code I24.19SS2	East 2187107.759	Elv 1240.825
POS TP 1167	Nrth 155586.963 Code I24.19SG6	East 2187087.675	Elv 1241.056
TRGET	Target ht 12.230		
POS TP 1168	Nrth 155554.554 Code I24.19SG20	East 2187089.186	Elv 1240.959
POS TP 1169	Nrth 155555.331 Code I24.19SG19	East 2187115.224	Elv 1239.287
POS TP 1170	Nrth 155570.320 Code I24.19SG18	East 2187135.082	Elv 1239.769
POS TP 1171	Nrth 155616.936 Code I24.19SG16	East 2187158.762	Elv 1239.530
POS TP 1172	Nrth 155652.809 Code I24.19SG15	East 2187164.163	Elv 1239.662
POS TP 1173	Nrth 155702.374 Code S32.8SG27	East 2187157.551	Elv 1239.418
POS TP 1174	Nrth 155726.389 Code S32.8SG26	East 2187157.462	Elv 1239.534
POS TP 1175	Nrth 155749.400 Code S32.8SG25	East 2187156.849	Elv 1239.551
POS TP 1176	Nrth 155767.625 Code S32.8SG24	East 2187156.354	Elv 1239.587
TRGET	Target ht 15.850		

POS TP 1177	Nrth 155870.674 Code I24.12SG7	East 2187188.075	Elv 1239.805
TRGET	Target ht 12.950		
POS TP 1178	Nrth 155902.981 Code I24.12SG8	East 2187180.305	Elv 1239.704
POS TP 1179	Nrth 155922.588 Code I24.12SG9	East 2187192.935	Elv 1240.916
POS TP 1180	Nrth 155952.009 Code I24.11SG4	East 2187184.640	Elv 1241.692
TRGET	Target ht 15.850		
POS TP 1182	Nrth 155870.353 Code I24.12SG6	East 2187220.794	Elv 1240.175
TRGET	Target ht 1.000		
POS TP 1183	Nrth 155937.100 Code S32.6SG1	East 2187153.638	Elv 1234.508
TRGET	Target ht 5.000		
POS TP 1184	Nrth 155942.439 Code S32.6SG2	East 2187128.811	Elv 1232.075
TRGET	Target ht 8.670		
POS TP 1185	Nrth 155975.442 Code S32.5SG3	East 2187101.301	Elv 1232.838
POS TP 1186	Nrth 155976.783 Code S32.5SG3W5	East 2187113.900	Elv 1231.777
POS TP 1187	Nrth 156012.308 Code S32.5SG1W5	East 2187139.569	Elv 1232.136
TRGET	Target ht 5.000		
POS TP 1188	Nrth 156018.164 Code S32.5SG1	East 2187145.957	Elv 1232.969
POS TP 1189	Nrth 156001.758 Code I24.11SG5	East 2187163.436	Elv 1235.784
POS TP 1190	Nrth 155961.676 Code S32.5SG2	East 2187161.129	Elv 1233.939
STN TP 0026	Nrth 156011.334 Theo ht 5.160	East 2186970.956 Code OCC	Elv 1250.780
ATMOS	Press 30.00 inHg	Temp 38.0 F	
BKB TP 0026-0025	Azmth 341-33′23"	H.obs 359-59′55"	
OBS F1 0026-0025	Dist 268.970 Code BS	V.obs 87-18′20"	H.obs 359-59′55"
TRGET	Target ht 21.850		
POS TP 1191	Nrth 156032.362 Code I24.11SG6	East 2187154.046	Elv 1236.552

TRGET	Target ht 5.000		
POS TP 1192	Nrth 156046.139 Code I24.11SG7	East 2187177.485	Elv 1242.274
POS TP 1193	Nrth 156155.688 Code PT.27	East 2187167.237	Elv 1249.871
POS TP 1194	Nrth 155650.207 Code PT.28	East 2187160.456	Elv 1240.112
STN TP 0027	Nrth 156155.688 Theo ht 5.070	East 2187167.237 Code OCC	Elv 1249.800
ATMOS	Press 30.00 inHg	Temp 36.0 F	
BKB TP 0027-0026	Azmth 233-40'03"	H.obs 0-00'00"	
OBS F1 0027-0026	Dist 243.730 Code BS	V.obs 89-47'30"	H.obs 0-00'00"
TRGET	Target ht 14.330		
POS TP 1195	Nrth 156113.501 Code I24.7SG4	East 2187158.594	Elv 1249.626
POS TP 1196	Nrth 156135.594 Code I24.7SG2	East 2187165.783	Elv 1249.404
TRGET	Target ht 8.670		
POS TP 1197	Nrth 156136.696 Code I24.7SG3	East 2187191.390	Elv 1249.077
POS TP 1198	Nrth 156116.002 Code I24.8SG8	East 2187212.128	Elv 1247.801
POS TP 1199	Nrth 156128.186 Code I24.8SG9	East 2187233.689	Elv 1246.721
POS TP 1200	Nrth 156122.516 Code I24.8SG1	East 2187259.611	Elv 1244.739
POS TP 1201	Nrth 156108.846 Code I24.8SG2	East 2187278.122	Elv 1243.655
POS TP 1202	Nrth 156125.259 Code I24.9SG4	East 2187298.920	Elv 1243.389
STN TP 0028	Nrth 155650.207 Theo ht 5.270	East 2187160.456 Code OCC	Elv 1240.050
TRGET	Target ht 5.000		
BKB TP 0028-0026	Azmth 332-18'43"	H.obs 0-00'00"	
OBS F1 0028-0026	Dist 407.950 Code BS	V.obs 88-32'00"	H.obs 0-00'00"
TRGET	Target ht 12.230		
POS TP 1203	Nrth 156202.220 Code I24.5SG1	East 2186991.404	Elv 1260.722
TRGET	Target ht 5.000		

POS TP 1204	Nrth 155675.705 Code I24.19SG14	East 2187011.644	Elv 1241.978
POS TP 1205	Nrth 155674.029 Code I24.19SG13	East 2186985.812	Elv 1242.901
POS TP 1206	Nrth 155651.281 Code I24.19SS4	East 2186989.052	Elv 1243.092
POS TP 1207	Nrth 155643.795 Code I24.19SG12	East 2186986.905	Elv 1243.023
POS TP 1208	Nrth 155625.845 Code I24.19SG11	East 2186985.494	Elv 1242.979
POS TP 1209	Nrth 155617.193 Code I24.19SG10	East 2186987.037	Elv 1242.738
POS TP 1210	Nrth 155595.328 Code I24.19SG9	East 2186988.099	Elv 1242.776
POS TP 1211	Nrth 155589.177 Code I24.19SS3	East 2187000.289	Elv 1242.073
POS TP 1212	Nrth 155587.540 Code I24.19SG8	East 2187012.985	Elv 1241.792
POS TP 1213	Nrth 155587.180 Code I24.19SG7	East 2187055.685	Elv 1241.156
POS TP 1214	Nrth 155551.904 Code I24.19SG21	East 2187054.928	Elv 1241.911
POS TP 1215	Nrth 155552.731 Code I24.19SG22	East 2187014.638	Elv 1242.369
POS TP 1216	Nrth 155554.507 Code I24.19SG29	East 2186988.089	Elv 1243.006
POS TP 1217	Nrth 155567.033 Code I24.19SG30	East 2186962.020	Elv 1243.804
POS TP 1218	Nrth 155695.515 Code I24.19SG28	East 2186963.194	Elv 1244.403
POS TP 1219	Nrth 155674.301 Code I24.19SG27	East 2186954.994	Elv 1244.377
TRGET	Target ht 12.230		
POS TP 1220	Nrth 155644.277 Code I24.19SG26	East 2186954.672	Elv 1244.590
TRGET	Target ht 16.850		
POS TP 1221	Nrth 155625.686 Code I24.19SG25	East 2186954.624	Elv 1243.202
POS TP 1222	Nrth 155615.524 Code I24.19SG24	East 2186951.937	Elv 1243.107
POS TP 1223	Nrth 155594.537 Code I24.19G23	East 2186955.663	Elv 1242.974
STN TP 0028	Nrth 155650.207	East 2187160.456	Elv 1240.050

	Theo ht 4.900	Code OCC	
ATMOS	Press 30.00 inHg	Temp 60.0 F	
TRGET	Target ht 5.000		
BKB TP 0028-0026	Azmth 332-18'43"	H.obs 0-00'00"	
OBS F1 0028-0026	Dist 407.910 Code BS	V.obs 88-28'45"	H.obs 0-00'00"
TRGET	Target ht 12.850		
POS TP 1224	Nrth 155949.763 Code ESC1SE6	East 2187688.950	Elv 1225.709
TRGET	Target ht 8.670		
POS TP 1225	Nrth 155933.268 Code ESC1SE5	East 2187454.265	Elv 1225.201
POS TP 1226	Nrth 155881.307 Code ESC1SE4W	East 2187309.719	Elv 1226.660
POS TP 1227	Nrth 155866.563 Code ESC1SE4E	East 2187315.419	Elv 1226.677
POS TP 1228	Nrth 155777.236 Code ESC1SE3	East 2187296.629	Elv 1225.438
TRGET	Target ht 12.180		
POS TP 1229	Nrth 155307.573 Code ESC1SE1	East 2187057.882	Elv 1229.857
POS TP 1230	Nrth 155604.801 Code ESC1SE2	East 2187218.288	Elv 1224.073

* END OF REPORT *

JOB	Job id SOIL-BOR		
NOTE	ALLEN-KELLY-PONDER		
NOTE	NOV-18-1993		
SCALE	S.F. 1.000000000		
NOTE CP	Sea level crn:N		
NOTE CP	C and R crn : N		
NOTE CP	Atmos crn : N		
INSTR	SET Theo <No Text> V.obs : Zenith P.C. mm 0.000	EDM <No Text> Serial no 000000 Edm o/s <Null>	Serial no 000000 Mount: not applc Refl o/s <Null>
POS KI 0025	Nrth 156266.175	East 2186885.966	Elv 1263.620
POS KI 0026	Nrth 156011.334	East 2186970.956	Elv 1250.780
POS KI 0027	Nrth 156155.688	East 2187167.237	Elv 1249.800
POS KI 0028	Nrth 155650.207	East 2187160.456	Elv 1240.050
STN TP 0026	Nrth 156011.334 Theo ht 5.130	East 2186970.956 Code OCC	Elv 1250.780
ATMOS	Press 30.00 inHg	Temp 40.0 F	
TRGET	Target ht 5.000		
BKB TP 0026-0028	Azmth 152-18'43"	H.obs 359-59'55"	
OBS F1 0026-0028	Dist 407.960 Code BS	V.obs 91-32'00"	H.obs 359-59'55"
POS TP 1000	Nrth 156063.308 Code I24.5SB3	East 2186968.496	Elv 1255.214
TRGET	Target ht 15.850		
POS TP 1001	Nrth 156129.301 Code I24.4SB1	East 2186942.706	Elv 1258.387
POS TP 1002	Nrth 156218.241 Code I24.3SB1	East 2186860.431	Elv 1264.232
POS TP 1003	Nrth 156193.248 Code I24.3SB4	East 2186799.966	Elv 1264.967
POS TP 1004	Nrth 156211.920 Code I24.1SB1	East 2186771.016	Elv 1265.662
POS TP 1007	Nrth 156021.183 Code I24.2SB6	East 2186800.616	Elv 1258.048
'OS TP 1008	Nrth 155998.906 Code I24.2SB5	East 2186815.532	Elv 1256.834
TRGET	Target ht 5.000		

POS TP 1000	Nrth 156063.308 Code I24.5SB3	East 2186968.496	Elv 1255.214
POS TP 1001	Nrth 156129.301 Code I24.4SB1	East 2186942.706	Elv 1258.387
POS TP 1002	Nrth 156218.241 Code I24.3SB1	East 2186860.431	Elv 1264.232
POS TP 1003	Nrth 156193.248 Code I24.3SB4	East 2186799.966	Elv 1264.967
POS TP 1004	Nrth 156211.920 Code I24.1SB1	East 2186771.016	Elv 1265.662
POS TP 1007	Nrth 156021.183 Code I24.2SB6	East 2186800.616	Elv 1258.048
POS TP 1008	Nrth 155998.906 Code I24.2SB5	East 2186815.532	Elv 1256.834
POS TP 1009	Nrth 156002.636 Code I24.2SB4	East 2186890.903	Elv 1252.513
POS TP 1010	Nrth 156097.117 Code I24.2SB3	East 2186890.792	Elv 1258.265
POS TP 1011	Nrth 156117.291 Code I24.2SB2	East 2186888.629	Elv 1259.398
POS TP 1012	Nrth 155872.083 Code RCP1SB2	East 2186865.564	Elv 1249.932
POS TP 1013	Nrth 155875.407 Code RCP1SB3	East 2186855.469	Elv 1250.138
POS TP 1014	Nrth 155889.397 Code RCP1SB1	East 2186866.200	Elv 1250.953
POS TP 1015	Nrth 155895.436 Code S32.1SB3	East 2186929.688	Elv 1251.109
POS TP 1016	Nrth 155883.213 Code S32.1SB2	East 2186960.792	Elv 1249.598
POS TP 1017	Nrth 155918.441 Code S32.1SB1	East 2186930.900	Elv 1249.554
POS TP 1018	Nrth 155928.884 Code S32.2SB3	East 2186949.106	Elv 1247.126
POS TP 1019	Nrth 155956.576 Code S32.3SB3	East 2186946.864	Elv 1247.337
POS TP 1020	Nrth 155982.666 Code S32.3SB4	East 2186949.140	Elv 1247.348
POS TP 1021	Nrth 155997.899 Code S32.3SB1	East 2186986.096	Elv 1246.166
POS TP 1022	Nrth 155964.216 Code S32.3SB2	East 2186999.353	Elv 1244.547
POS TP 1023	Nrth 155932.353 Code S32.4SB5	East 2187017.408	Elv 1241.603

POS TP 1009	Nrth 156002.636 Code I24.2SB4	East 2186890.903	Elv 1252.513
POS TP 1010	Nrth 156097.117 Code I24.2SB3	East 2186890.792	Elv 1258.265
POS TP 1011	Nrth 156117.291 Code I24.2SB2	East 2186888.629	Elv 1259.398
POS TP 1012	Nrth 155872.083 Code RCP1SB2	East 2186865.564	Elv 1249.932
TRGET	Target ht 12.230		
POS TP 1013	Nrth 155875.407 Code RCP1SB3	East 2186855.469	Elv 1250.138
POS TP 1014	Nrth 155889.397 Code RCP1SB1	East 2186866.200	Elv 1250.953
POS TP 1015	Nrth 155895.436 Code S32.1SB3	East 2186929.688	Elv 1251.109
TRGET	Target ht 5.000		
POS TP 1016	Nrth 155883.213 Code S32.1SB2	East 2186960.792	Elv 1249.598
POS TP 1017	Nrth 155918.441 Code S32.1SB1	East 2186930.900	Elv 1249.554
POS TP 1018	Nrth 155928.884 Code S32.2SB3	East 2186949.106	Elv 1247.126
POS TP 1019	Nrth 155956.576 Code S32.3SB3	East 2186946.864	Elv 1247.337
POS TP 1020	Nrth 155982.666 Code S32.3SB4	East 2186949.140	Elv 1247.348
POS TP 1021	Nrth 155997.899 Code S32.3SB1	East 2186986.096	Elv 1246.166
POS TP 1022	Nrth 155964.216 Code S32.4SB6	East 2186999.353	Elv 1244.547
POS TP 1023	Nrth 155932.353 Code S32.4SB5	East 2187017.408	Elv 1241.603
POS TP 1024	Nrth 155901.102 Code S32.2SB2	East 2187009.920	Elv 1242.752
POS TP 1025	Nrth 155950.959 Code S32.4SB4	East 2187062.174	Elv 1240.738
POS TP 1026	Nrth 155987.946 Code S32.4SB3	East 2187049.503	Elv 1241.099
POS TP 1027	Nrth 156018.650 Code S32.4SB2	East 2187066.966	Elv 1240.587
POS TP 1028	Nrth 156046.795 Code S32.4SB1	East 2187031.165	Elv 1241.626
POS TP 1029	Nrth 156020.406 Code S32.4SB6	East 2187009.514	Elv 1241.428

POS TP 1030	Nrth 156100.100 Code I24.6SB1	East 2187081.548	Elv 1252.588
TRGET	Target ht 18.850		
POS TP 1031	Nrth 156151.733 Code I24.5SB2	East 2187073.283	Elv 1255.039
TRGET	Target ht 15.850		
POS TP 1033	Nrth 156074.290 Code I24.8SB4	East 2187220.891	Elv 1245.021
POS TP 1034	Nrth 156061.764 Code I24.8SB3	East 2187235.409	Elv 1243.434
POS TP 1035	Nrth 156047.497 Code I24.10SB5	East 2187224.947	Elv 1243.064
POS TP 1036	Nrth 156020.668 Code I24.11SB2	East 2187221.472	Elv 1242.327
POS TP 1037	Nrth 156000.113 Code I24.10SB4	East 2187230.760	Elv 1242.739
POS TP 1038	Nrth 155969.886 Code I24.12SB6	East 2187223.845	Elv 1241.936
POS TP 1039	Nrth 155977.246 Code I24.10SB3	East 2187246.941	Elv 1242.109
POS TP 1040	Nrth 156000.362 Code I24.10SB2	East 2187276.322	Elv 1242.053
TRGET	Target ht 18.850		
POS TP 1041	Nrth 156033.210 Code I24.10SB1	East 2187278.403	Elv 1242.380
TRGET	Target ht 15.850		
POS TP 1042	Nrth 156081.328 Code I24.8SB2	East 2187281.076	Elv 1242.418
POS TP 1043	Nrth 156094.279 Code I24.9SB2	East 2187322.625	Elv 1241.102
POS TP 1044	Nrth 155930.516 Code I24.12B1	East 2187283.217	Elv 1240.029
POS TP 1045	Nrth 155904.358 Code I24.12SB2	East 2187242.171	Elv 1240.548
POS TP 1046	Nrth 155885.128 Code I24.12SB3	East 2187232.631	Elv 1240.039
POS TP 1047	Nrth 155870.797 Code I24.12SB4	East 2187186.019	Elv 1239.580
TRGET	Target ht 12.230		
POS TP 1048	Nrth 155922.582 Code I24.12B5	East 2187193.201	Elv 1240.640

POS TP 1049	Nrth 155949.638 Code I24.11SB3	East 2187184.637	Elv 1241.561
POS TP 1050	Nrth 155958.282 Code S32.5SB2	East 2187165.501	Elv 1235.860
POS TP 1051	Nrth 155995.604 Code I24.11B4	East 2187160.002	Elv 1234.522
POS TP 1052	Nrth 156021.003 Code S32.5SB1	East 2187142.232	Elv 1232.599
POS TP 1053	Nrth 156045.832 Code I24.11SB1	East 2187175.696	Elv 1242.356
POS TP 1054	Nrth 155977.860 Code S32.5SB3	East 2187113.012	Elv 1231.788
POS TP 1055	Nrth 155941.071 Code S32.6SB1	East 2187122.059	Elv 1232.129
TRGET	Target ht 5.000		
POS TP 1056	Nrth 155904.300 Code S32.8SB18	East 2187071.513	Elv 1240.912
POS TP 1057	Nrth 155904.521 Code S32.8SB1	East 2187105.891	Elv 1240.824
POS TP 1058	Nrth 155880.846 Code S32.8SB2	East 2187129.621	Elv 1239.994
POS TP 1059	Nrth 155859.471 Code S32.8SB3	East 2187130.415	Elv 1239.867
TRGET	Target ht 8.670		
POS TP 1060	Nrth 155816.538 Code S32.8SB4	East 2187130.958	Elv 1239.905
POS TP 1061	Nrth 155795.655 Code S32.8SB5	East 2187132.014	Elv 1239.845
POS TP 1062	Nrth 155767.173 Code S32.8SB6	East 2187131.284	Elv 1239.775
POS TP 1063	Nrth 155748.802 Code S32.8SB7	East 2187131.463	Elv 1239.772
POS TP 1064	Nrth 155727.167 Code S32.8SB8	East 2187132.543	Elv 1239.917
POS TP 1065	Nrth 155702.239 Code S32.8SB9	East 2187107.833	Elv 1240.151
POS TP 1066	Nrth 155701.817 Code S32.8SB10	East 2187070.128	Elv 1240.787
TRGET	Target ht 5.000		
POS TP 1067	Nrth 155817.900 Code S32.8SB15	East 2187033.653	Elv 1243.666
POS TP 1068	Nrth 155840.075 Code S32.8SB16	East 2187031.931	Elv 1244.015

POS TP 1069	Nrth 155873.166 Code S32.8SB17	East 2187035.729	Elv 1243.651
TRGET	Target ht 8.670		
TRGET	Target ht 12.230		
POS TP 1071	Nrth 156065.160 Code I24.2SB7	East 2186801.068	Elv 1259.589
TRGET	Target ht 15.850		
POS TP 1072	Nrth 156112.927 Code I24.2SP8	East 2186800.687	Elv 1261.215
STN TP 0027	Nrth 156155.688 Theo ht 5.170	East 2187167.237 Code OCC	Elv 1249.800
ATMOS	Press 30.00 inHg	Temp 50.0 F	
TRGET	Target ht 5.000		
BKB TP 0027-0026	Azmth 233-40'03"	H.obs 0-00'00"	
OBS F1 0027-0026	Dist 243.650 Code BS	V.obs 89-49'10"	H.obs 0-00'00"
TRGET	Target ht 15.850		
POS TP 1073	Nrth 156114.660 Code I24.7SB1	East 2187150.599	Elv 1249.999
TRGET	Target ht 5.000		
POS TP 1074	Nrth 156124.891 Code I24.7SB2	East 2187209.568	Elv 1248.461
POS TP 1075	Nrth 156128.107 Code I24.8SB1	East 2187233.612	Elv 1246.516
POS TP 1076	Nrth 156111.196 Code I24.9SB1	East 2187289.704	Elv 1242.730
STN TP 0028	Nrth 155650.207 Theo ht 4.930	East 2187160.456 Code OCC	Elv 1240.050
BKB TP 0028-0026	Azmth 332-18'43"	H.obs 0-00'00"	
OBS F1 0028-0026	Dist 407.910 Code BS	V.obs 88-29'20"	H.obs 0-00'00"
POS TP 1077	Nrth 155798.814 Code S32.8SB14	East 2187031.404	Elv 1243.912
POS TP 1078	Nrth 155767.656 Code S32.8SB13	East 2187030.185	Elv 1243.777
POS TP 1079	Nrth 155748.091 Code S32.8SB12	East 2187033.278	Elv 1243.330
POS TP 1080	Nrth 155725.792 Code S32.8SB11	East 2187035.784	Elv 1243.193
POS TP 1081	Nrth 155675.712 Code I24.19SB9	East 2187011.518	Elv 1242.046

POS TP 1082	Nrth 155678.183 Code I24.19SB10	East 2187051.701	Elv 1241.031
POS TP 1083	Nrth 155680.433 Code I24.19SB1	East 2187108.730	Elv 1239.867
POS TP 1084	Nrth 155652.415 Code I24.19SB2	East 2187123.032	Elv 1239.685
POS TP 1085	Nrth 155612.970 Code I24.19SB3	East 2187120.469	Elv 1239.899
POS TP 1086	Nrth 155582.789 Code I24.19SB4	East 2187087.532	Elv 1241.133
POS TP 1087	Nrth 155581.438 Code I24.19SB5	East 2187055.191	Elv 1241.748
POS TP 1088	Nrth 155581.617 Code I24.19SB6	East 2187013.239	Elv 1242.441
TRGET	Target ht 12.230		
POS TP 1089	Nrth 155616.797 Code I24.19SB7	East 2186964.495	Elv 1244.062
POS TP 1090	Nrth 155645.822 Code I24.19SB8	East 2186964.161	Elv 1244.062

* END OF REPORT *

Appendix E

Photographs of Field Investigations

Photo 1 (09/23/93) - Soil-gas sampling locations (red stakes) and air sampling location at SWMU 32.4, facing north.

Photo 2 (09/23/93) - Hammering soil vapor probe at SWMU 32.4, location S32.4SG3, facing south.

Photo 3 (10/06/93) - Decontamination of soil-gas equipment, facing east.

Photo 4 (10/12/93) - Collection of sediment sample at location ESCISE4W, facing east.

Photo 5 (10/13/93) - Collection of sediment sample at location ESCISE2, facing southeast.

Photo 6 (10/23/93) - Typical setup for sampling soil borings (location I24.6SB1), facing south.

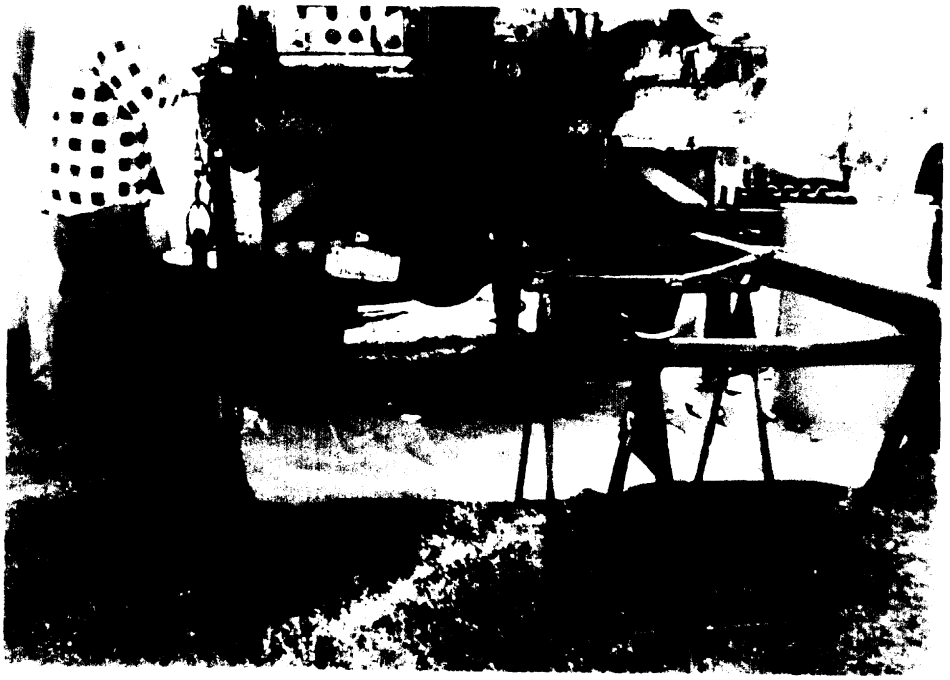

Photo 7 (10/25/93) - Augering at location I24.12SB2, facing east.

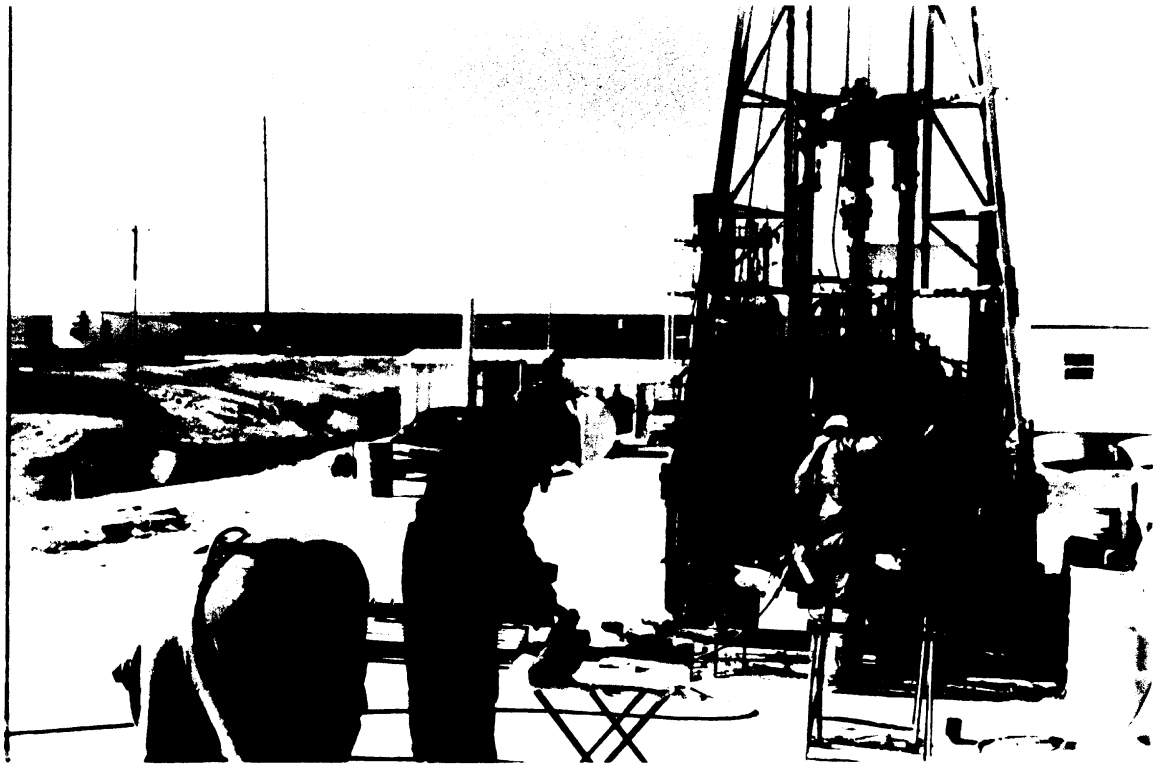

Photo 8 (11/05/93) - Scanning core for volatile organics at location I24.19SB4, facing west.

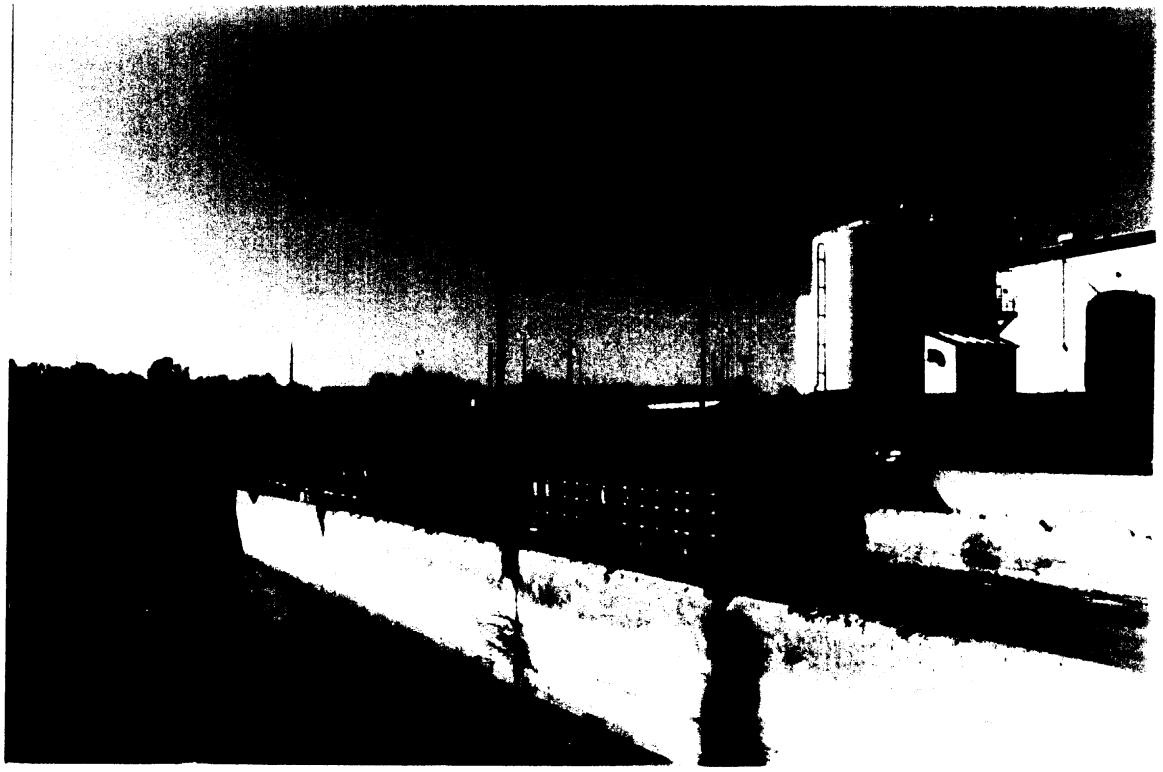

Photo 9 (11/93) - Storage of drums containing soil cuttings and decontamination fluids at I24.19, facing south.

Photo 10 (11/11/93) - Pulling free product sample from lift station.

Appendix F

Flow Calculations for Air Samples

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
HI VOL, PM–10 SAMPLER FLOW CALCULATION WORKSHEET

ENGINEERING–SCIENCE, INC.
FAIRFAX, VA

* data entry from field data sheets

Start Date *	Sampler S/N *	Initial Temp. °C *	Final Temp. °C *	Initial Pressure in. Hg. *	Final Pressure in. Hg. *	Initial Mag. in. H_2O *	Final Mag. in. H_2O *	Avg. Temp. °C	Avg. Temp. Kelvin	Avg. Pressure in. Hg.	Avg. Pressure mm. Hg.	Avg. Act. CFM	Sampler Slope	Sampler Intercept	Act. Flow m^3/min.	Std. Flow m^3/min.	Time min. *	Total Std. Volume m^3
09/28/93	HV–P2	22.00	27.80	28.92	28.92	36.50	37.50	24.90	297.90	28.92	734.57	37.00	0.0313	0.01456	1.1737	1.13	282	320.00
09/28/93	HV–P3	19.80	27.80	28.92	28.92	35.00	35.00	23.80	296.80	28.92	734.57	35.00	0.0316	0.02932	1.1343	1.10	272	299.41
09/28/93	HV–P4	21.30	27.80	28.92	28.92	36.50	37.50	24.55	297.55	28.92	734.57	37.00	0.0313	0.01779	1.1766	1.14	269	306.36
09/30/93	HV–P2	17.20	30.00	28.65	28.51	36.50	37.50	23.60	296.60	28.58	725.93	37.00	0.0313	0.01456	1.1737	1.13	358	403.23
09/30/93	HV–P3	30.00	30.90	28.80	29.70	46.00	46.00	30.45	303.45	29.25	742.95	46.00	0.0316	0.02932	1.4816	1.42	349	496.40
09/30/93	HV–P4	31.00	30.00	28.80	28.90	44.00	44.00	30.50	303.50	28.85	732.79	44.00	0.0313	0.01779	1.3958	1.32	346	457.21
10/02/93	HV–P2	15.80	24.70	28.60	28.65	36.50	38.00	20.25	293.25	28.63	727.08	37.25	0.0313	0.01456	1.1815	1.15	233	267.63
10/02/93	HV–P3	15.60	22.70	28.62	28.67	35.00	34.00	19.15	292.15	28.65	727.58	34.50	0.0316	0.02932	1.1185	1.09	231	252.31
10/02/93	HV–P4	15.31	22.70	28.62	28.64	36.50	36.50	19.01	292.01	28.63	727.20	36.50	0.0313	0.01779	1.1609	1.13	230	260.73

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
FLOW CALCULATIONS OF PHENOL SAMPLES
AT AMBIENT AND PROCESS LOCATIONS

ENGINEERING–SCIENCE, INC.
FAIRFAX, VA

* data entry from field data sheets

* Site and Sampling Code	* Sampling Date Start	* Sampling Time (minutes)	* Flow Rate (cc/min)	* Ambient Pressure (in Hg)	* Ambient Temp. (°C)	Sample Volume (liters) Actual	Sample Volume (liters) Standard
A1 – L	09/22/93	1385	69.0	28.91	26.08	95.57	90.46
A2 – L	09/22/93	1375	65.7	28.90	26.08	90.34	85.49
A3 – L	09/22/93	1375	66.2	28.91	26.08	91.03	86.17
A4 – L	09/22/93	1443	65.9	28.90	25.52	95.09	90.15
A5 – L	09/22/93	1447	58.8	29.39	25.52	85.08	82.03
A6 – L	09/22/93	1433	65.3	29.25	25.52	93.57	89.79
A7 – L	09/22/93	1427	68.5	28.85	25.52	97.75	92.51
A8 – L	09/22/93	1428	66.7	28.90	25.23	95.25	90.39
A9 – L	09/22/93	1396	60.4	28.91	26.48	84.32	79.71
A10 – L	09/22/93	1462	64.8	28.83	25.23	94.74	89.69
A11 – L	09/22/93	1380	67.4	28.90	26.08	93.01	88.02
A12 – L	09/22/93	1423	63.7	28.83	24.95	90.65	85.89
A13 – L	09/22/93	1424	65.4	28.82	24.95	93.13	88.22
P1 – L	09/22/93	1235	67.4	28.87	23.69	83.24	79.32
P2 – L	09/22/93	1273	65.2	28.88	23.99	83.00	79.04
P3 – L	09/22/93	1288	66.8	28.86	24.34	86.04	81.78
P4 – L	09/22/93	1346	67.3	28.89	24.05	90.59	86.28
P5 – L	09/22/93	1328	64.0	28.88	24.05	84.99	80.92
P6 – L	09/22/93	1324	68.0	28.88	24.05	90.03	85.72
P7 – L	09/22/93	1324	65.5	28.86	24.05	86.72	82.51
P8 – L	09/22/93	1275	60.7	28.86	23.49	77.39	73.77
P9 – L	09/22/93	1305	51.8	28.86	23.81	67.60	64.37
P10 – L	09/22/93	1277	66.4	28.86	23.49	84.79	80.83
A1 – L	09/24/93	1410	69.0	28.91	20.64	97.29	93.80
A2 – L	09/24/93	1409	65.7	28.96	20.85	92.57	89.34
A3 – L	09/24/93	1408	66.2	28.95	20.85	93.21	89.93
A4 – L	09/24/93	1410	65.9	28.98	20.59	92.92	89.82
A5 – L	09/24/93	1410	58.8	28.98	20.59	82.91	80.14
A6 – L	09/24/93	1411	65.3	28.98	20.59	92.14	89.06
A7 – L	09/24/93	1468	68.5	28.92	20.59	100.56	97.00
A8 – L	09/24/93	1465	66.7	28.92	20.59	97.72	94.26
A9 – L	09/24/93	1464	60.4	28.90	20.59	88.43	85.24
A10 – L	09/24/93	1463	64.8	28.89	20.59	94.80	91.35
A11 – L	09/24/93	1410	67.4	28.91	20.64	95.03	91.63
A12 – L	09/24/93	1488	63.7	28.90	20.53	94.79	91.39
A13 – L	09/24/93	1488	65.4	28.86	20.53	97.32	93.70
P1 – L	09/24/93	1482	67.4	28.88	20.44	99.89	96.27
P2 – L	09/24/93	1501	65.2	28.86	20.44	97.87	94.26
P3 – L	09/24/93	1499	66.8	28.72	20.44	100.13	95.97
P4 – L	09/24/93	1484	67.3	28.82	20.44	99.87	96.06
P5 – L	09/24/93	1480	64.0	28.83	20.44	94.72	91.13
P6 – L	09/24/93	1480	68.0	28.82	20.33	100.64	96.83

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
FLOW CALCULATIONS OF PHENOL SAMPLES
AT AMBIENT AND PROCESS LOCATIONS

ENGINEERING–SCIENCE, INC.
FAIRFAX, VA

* data entry from field data sheets

Site and Sampling Code *	Sampling Date Start *	Sampling Time (minutes) *	Flow Rate (cc/min) *	Ambient Pressure (in Hg) *	Ambient Temp. (°C) *	Sample Volume (liters) Actual	Sample Volume (liters) Standard
P7 – L	09/24/93	1479	65.5	28.82	20.33	96.87	93.21
P8 – L	09/24/93	1477	60.7	28.80	20.33	89.65	86.20
P9 – L	09/24/93	1464	51.8	28.80	20.33	75.84	72.91
P10 – L	09/24/93	1470	66.4	28.79	20.33	97.61	93.82
A1 – L	09/27/93	1373	69.0	29.01	20.77	94.74	91.61
A2 – L	09/27/93	1370	65.7	29.01	20.77	90.01	87.04
A3 – L	09/27/93	1371	66.2	29.01	20.77	90.76	87.77
A4 – L	09/27/93	1369	65.9	29.01	20.77	90.22	87.24
A5 – L	09/27/93	1369	58.8	29.01	20.84	80.50	77.83
A6 – L	09/27/93	1367	65.3	29.01	20.84	89.27	86.30
A7 – L	09/27/93	1371	68.5	29.01	20.84	93.91	90.80
A8 – L	09/27/93	1372	66.7	29.01	20.84	91.51	88.48
A9 – L	09/27/93	1364	60.4	28.99	20.84	82.39	79.60
A10 – L	09/27/93	1363	64.8	28.98	20.84	88.32	85.30
A11 – L	09/27/93	1373	67.4	29.01	20.77	92.54	89.49
A12 – L	09/27/93	1349	63.7	28.96	20.94	85.93	82.91
A13 – L	09/27/93	1106	65.4	28.96	21.04	72.33	69.76
P1 – L	09/27/93	1409	67.4	28.96	20.94	94.97	91.63
P2 – L	09/27/93	1407	65.2	28.96	20.94	91.74	88.51
P3 – L	09/27/93	1409	66.8	28.96	20.94	94.12	90.81
P4 – L	09/27/93	1406	67.3	28.96	21.05	94.62	91.26
P5 – L	09/27/93	1406	64.0	28.96	21.05	89.98	86.79
P6 – L	09/27/93	1409	68.0	28.96	21.05	95.81	92.41
P7 – L	09/27/93	1406	65.5	28.94	21.25	92.09	88.70
P8 – L	09/27/93	1410	60.7	28.94	21.25	85.59	82.43
P9 – L	09/27/93	1409	51.8	28.93	21.05	72.99	70.32
P10 – L	09/27/93	979	66.4	28.89	20.60	65.01	62.64
A1 – L	09/29/93	1382	69.0	28.73	19.13	95.36	91.84
A2 – L	09/29/93	1383	65.7	28.73	19.13	90.86	87.51
A3 – L	09/29/93	1383	66.2	28.74	19.13	91.55	88.20
A4 – L	09/29/93	1381	65.9	28.75	19.13	91.01	87.71
A5 – L	09/29/93	1382	58.8	28.76	19.13	81.26	78.34
A6 – L	09/29/93	1380	65.3	28.75	19.13	90.11	86.85
A7 – L	09/29/93	1378	68.5	28.75	19.12	94.39	90.97
A8 – L	09/29/93	1197	66.7	28.74	19.50	79.84	76.82
A9 – L	09/29/93	1412	60.4	29.38	19.12	85.28	84.00
A10 – L	09/29/93	1411	64.8	29.38	19.12	91.43	90.05
A11 – L	09/29/93	1382	67.4	28.72	19.13	93.15	89.68
P1 – L	09/29/93	1409	67.4	29.38	19.12	94.97	93.53
P2 – L	09/29/93	1411	65.2	29.38	19.12	92.00	90.61
P3 – L	09/29/93	1408	66.8	29.39	19.12	94.05	92.67
P4 – L	09/29/93	1410	67.3	29.38	19.21	94.89	93.43

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
FLOW CALCULATIONS OF PHENOL SAMPLES
AT AMBIENT AND PROCESS LOCATIONS

ENGINEERING–SCIENCE, INC.
FAIRFAX, VA

* data entry from field data sheets

* Site and Sampling Code	* Sampling Date Start	* Sampling Time (minutes)	* Flow Rate (cc/min)	* Ambient Pressure (in Hg)	* Ambient Temp. (°C)	Sample Volume (liters) Actual	Sample Volume (liters) Standard
P5 – L	09/29/93	1712	64.0	29.38	19.21	109.57	107.88
P6 – L	09/29/93	1413	68.0	29.39	19.21	96.08	94.64
P7 – L	09/29/93	1412	65.5	29.37	19.21	92.49	91.03
P8 – L	09/29/93	1411	60.7	29.37	19.21	85.65	84.30
P9 – L	09/29/93	1411	51.8	29.36	19.21	73.09	71.91
P10 – L	09/29/93	1406	66.4	29.35	19.12	93.36	91.85
A1 – L	10/01/93	1412	69.0	28.47	21.85	97.43	92.11
A2 – L	10/01/93	1412	65.7	28.49	21.85	92.77	87.78
A3 – L	10/01/93	1413	66.2	28.49	21.85	93.54	88.51
A4 – L	10/01/93	1408	65.9	28.50	21.90	92.79	87.81
A5 – L	10/01/93	1406	58.8	28.51	21.90	82.67	78.26
A6 – L	10/01/93	1405	65.3	28.50	21.90	91.75	86.83
A7 – L	10/01/93	1401	68.5	28.50	21.90	95.97	90.82
A8 – L	10/01/93	1402	66.7	28.50	21.90	93.51	88.50
A9 – L	10/01/93	1401	60.4	28.50	21.62	84.62	80.15
A10 – L	10/01/93	1402	64.8	28.50	21.62	90.85	86.05
A11 – L	10/01/93	1412	67.4	28.48	21.85	95.17	90.02
A12 – L	10/01/93	1394	63.7	28.50	21.62	88.80	84.10
A13 – L	10/01/93	1389	65.4	28.50	21.62	90.84	86.05
P1 – L	10/01/93	1385	67.4	28.53	21.28	93.35	88.61
P2 – L	10/01/93	1384	65.2	28.52	21.28	90.24	85.64
P3 – L	10/01/93	1382	66.8	28.52	21.28	92.32	87.61
P4 – L	10/01/93	1379	67.3	28.53	21.28	92.81	88.09
P5 – L	10/01/93	1366	64.0	28.54	21.28	87.42	83.01
P6 – L	10/01/93	1359	68.0	28.53	21.28	92.41	87.72
P7 – L	10/01/93	1355	65.5	28.53	21.28	88.75	84.26
P8 – L	10/01/93	1348	60.7	28.52	21.07	81.82	77.71
P9 – L	10/01/93	1343	51.8	28.47	20.66	69.57	66.05
P10 – L	10/01/93	1341	66.4	28.50	20.66	89.04	84.61
A1 – L	10/04/93	1372	69.0	28.68	20.03	94.67	90.72
A2 – L	10/04/93	1364	65.7	28.69	20.03	89.61	85.92
A3 – L	10/04/93	1370	66.2	28.81	20.03	90.69	87.32
A4 – L	10/04/93	1368	65.9	29.33	20.07	90.15	88.35
A5 – L	10/04/93	1369	58.8	24.33	20.07	80.50	65.44
A6 – L	10/04/93	1371	65.3	29.34	20.07	89.53	87.75
A7 – L	10/04/93	1368	68.5	28.82	20.07	93.71	90.22
A8 – L	10/04/93	1367	66.7	29.32	20.07	91.18	89.31
A9 – L	10/04/93	1369	60.4	29.30	20.07	82.69	80.95
A10 – L	10/04/93	1367	64.8	29.30	20.07	88.58	86.72
A11 – L	10/04/93	1372	67.4	28.69	20.03	92.47	88.65
A12 – L	10/04/93	1360	63.7	29.29	20.07	86.63	84.79
A13 – L	10/04/93	1355	65.4	29.30	20.12	88.62	86.73

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
FLOW CALCULATIONS OF PHENOL SAMPLES
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ENGINEERING–SCIENCE, INC.
FAIRFAX, VA

* data entry from field data sheets

* Site and Sampling Code	* Sampling Date Start	* Sampling Time (minutes)	* Flow Rate (cc/min)	* Ambient Pressure (in Hg)	* Ambient Temp. (°C)	Sample Volume (liters) Actual	Sample Volume (liters) Standard
P1 – L	10/04/93	1342	67.4	29.30	20.13	90.45	88.52
P2 – L	10/04/93	1343	65.2	29.30	20.13	87.56	85.71
P3 – L	10/04/93	1334	66.8	29.31	20.13	89.11	87.26
P4 – L	10/04/93	1330	67.3	29.30	20.13	89.51	87.61
P5 – L	10/04/93	1323	64.0	29.32	20.13	84.67	82.92
P6 – L	10/04/93	1317	68.0	29.32	20.13	89.56	87.71
P7 – L	10/04/93	1313	65.5	29.31	20.13	86.00	84.20
P8 – L	10/04/93	1306	60.7	29.30	20.13	79.27	77.58
P9 – L	10/04/93	1302	51.8	29.29	20.08	67.44	65.99
P10 – L	10/04/93	1298	66.4	29.28	20.08	86.19	84.32
A1 – L	10/07/93	1384	69.0	27.68	21.48	95.50	87.90
A2 – L	10/07/93	1390	65.7	29.70	21.48	91.32	90.18
A3 – L	10/07/93	1391	66.2	29.72	21.48	92.08	90.99
A4 – L	10/07/93	1392	65.9	29.72	21.53	91.73	90.63
A5 – L	10/07/93	1393	58.8	29.22	21.53	81.91	79.56
A6 – L	10/07/93	1396	65.3	29.71	21.53	91.16	90.03
A7 – L	10/07/93	1442	68.5	29.71	21.49	98.78	97.59
A8 – L	10/07/93	1443	66.7	29.70	21.49	96.25	95.06
A9 – L	10/07/93	1447	60.4	29.69	21.49	87.40	86.27
A10 – L	10/07/93	1447	64.8	29.69	21.49	93.77	92.57
A11 – L	10/07/93	1387	67.4	29.68	21.48	93.48	92.27
A12 – L	10/07/93	1471	63.7	29.67	21.59	93.70	92.42
A13 – L	10/07/93	1471	65.4	29.66	21.59	96.20	94.84
P1 – L	10/07/93	1449	67.4	29.68	21.49	97.66	96.37
P2 – L	10/07/93	1440	65.2	29.70	21.49	93.89	92.71
P3 – L	10/07/93	1441	66.8	29.71	21.49	96.26	95.10
P4 – L	10/07/93	1441	67.3	29.85	21.49	96.98	96.26
P5 – L	10/07/93	1444	64.0	29.70	21.56	92.42	91.24
P6 – L	10/07/93	1444	68.0	29.71	21.56	98.19	96.97
P7 – L	10/07/93	1454	65.5	29.70	21.56	95.24	94.02
P8 – L	10/07/93	1456	60.7	29.68	21.56	88.38	87.19
P9 – L	10/07/93	1457	51.8	29.69	21.56	75.47	74.48
P10 – L	10/07/93	1461	66.4	29.68	21.56	97.01	95.72
A1 – L	10/08/93	1353	69.0	29.78	15.96	93.36	94.22
A2 – L	10/08/93	1352	65.7	29.81	15.96	88.83	89.74
A3 – L	10/08/93	1350	66.2	29.82	15.96	89.37	90.30
A4 – L	10/08/93	1351	65.9	29.82	15.96	89.03	89.97
A5 – L	10/08/93	1351	58.8	29.88	15.96	79.44	80.43
A6 – L	10/08/93	1350	65.3	29.84	15.96	88.16	89.13
A7 – L	10/08/93	1349	68.5	29.84	14.92	92.41	93.77
A8 – L	10/08/93	1349	66.7	29.83	14.92	89.98	91.29
A9 – L	10/08/93	1356	60.4	29.82	15.32	81.90	82.94

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
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* Site and Sampling Code	* Sampling Date Start	* Sampling Time (minutes)	* Flow Rate (cc/min)	* Ambient Pressure (in Hg)	* Ambient Temp. (°C)	Sample Volume (liters) Actual	Sample Volume (liters) Standard
A10 – L	10/08/93	1356	64.8	29.80	15.32	87.87	88.93
A11 – L	10/08/93	1353	67.4	29.80	15.96	91.19	92.08
A12 – L	10/08/93	1373	63.7	29.79	15.96	87.46	88.28
A13 – L	10/08/93	1370	65.4	29.77	15.96	89.60	90.39
P1 – L	10/08/93	1355	67.4	29.82	15.32	91.33	92.48
P2 – L	10/08/93	1355	65.2	29.82	15.32	88.35	89.48
P3 – L	10/08/93	1355	66.8	29.82	15.32	90.51	91.67
P4 – L	10/08/93	1355	67.3	29.83	15.32	91.19	92.38
P5 – L	10/08/93	1352	64.0	29.83	15.32	86.53	87.65
P6 – L	10/08/93	1351	68.0	29.83	15.32	91.87	93.08
P7 – L	10/08/93	1356	65.5	29.82	14.65	88.82	90.15
P8 – L	10/08/93	1356	60.7	29.81	14.65	82.31	83.52
P9 – L	10/08/93	1355	51.8	29.81	14.65	70.19	71.23
P10 – L	10/08/93	1355	66.4	29.82	14.65	89.97	91.32
A1 – L	10/11/93	1352	69.0	29.88	15.91	93.29	94.46
A2 – L	10/11/93	1348	65.7	29.89	16.27	88.56	89.61
A3 – L	10/11/93	1345	66.2	29.90	16.27	89.04	90.12
A4 – L	10/11/93	1343	65.9	29.90	16.27	88.50	89.58
A5 – L	10/11/93	1341	58.8	29.90	16.27	78.85	79.81
A6 – L	10/11/93	1339	65.3	29.91	16.27	87.44	88.52
A7 – L	10/11/93	1337	68.5	29.90	16.27	91.58	92.70
A8 – L	10/11/93	1334	66.7	29.88	16.37	88.98	89.97
A9 – L	10/11/93	1331	60.4	29.87	16.37	80.39	81.25
A10 – L	10/11/93	1330	64.8	29.86	16.37	86.18	87.09
A11 – L	10/11/93	1350	67.4	29.89	15.91	90.99	92.17
A12 – L	10/11/93	1327	63.7	29.84	16.48	84.53	85.33
A13 – L	10/11/93	1327	65.4	29.84	16.48	86.79	87.59
P1 – L	10/11/93	1329	67.4	29.87	16.37	89.57	90.54
P2 – L	10/11/93	1327	65.2	29.88	16.37	86.52	87.49
P3 – L	10/11/93	1325	66.8	29.89	16.37	88.51	89.51
P4 – L	10/11/93	1323	67.3	29.89	16.37	89.04	90.05
P5 – L	10/11/93	1321	64.0	29.88	16.37	84.54	85.47
P6 – L	10/11/93	1319	68.0	29.89	16.37	89.69	90.71
P7 – L	10/11/93	1322	65.5	29.88	16.37	86.59	87.54
P8 – L	10/11/93	1321	60.7	29.86	16.37	80.18	81.01
P9 – L	10/11/93	1319	51.8	29.85	16.37	68.32	69.02
P10 – L	10/11/93	1317	66.4	29.85	16.37	87.45	88.34
A1 – L	10/13/93	1403	69.0	29.89	17.54	96.81	97.51
A2 – L	10/13/93	1397	65.7	29.89	17.54	91.78	92.45
A3 – L	10/13/93	1402	66.2	29.89	17.54	92.81	93.49
A4 – L	10/13/93	1401	65.9	24.90	17.54	92.33	77.47
A5 – L	10/13/93	1401	58.8	29.90	17.54	82.38	83.01

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Site and Sampling Code *	Sampling Date Start *	Sampling Time (minutes) *	Flow Rate (cc/min) *	Ambient Pressure (in Hg) *	Ambient Temp. (°C) *	Sample Volume (liters) Actual	Sample Volume (liters) Standard
A6 – L	10/13/93	1402	65.3	29.91	17.54	91.55	92.29
A7 – L	10/13/93	1400	68.5	29.90	17.54	95.90	96.65
A8 – L	10/13/93	1399	66.7	29.89	17.54	93.31	94.01
A9 – L	10/13/93	1400	60.4	29.88	17.54	84.56	85.15
A10 – L	10/13/93	1398	64.8	29.86	17.54	90.59	91.17
A11 – L	10/13/93	1403	67.4	29.88	17.54	94.56	95.23
A12 – L	10/13/93	1374	63.7	29.85	17.34	87.52	88.12
A13 – L	10/13/93	0	65.4	29.84		0.00	0.00
P1 – L	10/13/93	1398	67.4	29.88	17.54	94.23	94.88
P2 – L	10/13/93	1397	65.2	29.87	17.54	91.08	91.70
P3 – L	10/13/93	1391	66.8	29.89	17.54	92.92	93.59
P4 – L	10/13/93	1391	67.3	29.88	17.44	93.61	94.30
P5 – L	10/13/93	1385	64.0	29.88	17.44	88.64	89.30
P6 – L	10/13/93	1384	68.0	29.88	17.44	94.11	94.80
P7 – L	10/13/93	1382	65.5	29.88	17.44	90.52	91.20
P8 – L	10/13/93	1377	60.7	29.87	17.44	83.58	84.18
P9 – L	10/13/93	1376	51.8	29.87	17.44	71.28	71.78
P10 – L	10/13/93	1374	66.4	29.87	17.44	91.23	91.87
A1 – L	10/15/93	1406	69.0	28.36	19.04	97.01	92.26
A2 – L	10/15/93	1403	65.7	28.37	19.24	92.18	87.61
A3 – L	10/15/93	1400	66.2	28.37	19.24	92.68	88.11
A4 – L	10/15/93	1397	65.9	28.39	19.24	92.06	87.58
A5 – L	10/15/93	1396	58.8	28.39	19.24	82.08	78.09
A6 – L	10/15/93	1393	65.3	28.38	19.24	90.96	86.50
A7 – L	10/15/93	1389	68.5	28.39	19.24	95.15	90.50
A8 – L	10/15/93	1387	66.7	28.37	19.24	92.51	87.93
A9 – L	10/15/93	1399	60.4	28.36	19.24	84.50	80.29
A10 – L	10/15/93	1396	64.8	28.36	19.24	90.46	85.95
A11 – L	10/15/93	1406	67.4	28.37	19.24	94.76	90.07
A12 – L	10/15/93	1396	63.7	28.34	19.70	88.93	84.43
A13 – L	10/15/93	1399	65.4	28.33	20.02	91.49	86.61
P1 – L	10/15/93	1388	67.4	28.37	19.45	93.55	88.86
P2 – L	10/15/93	1379	65.2	28.37	19.45	89.91	85.40
P3 – L	10/15/93	1377	66.8	28.37	19.45	91.98	87.38
P4 – L	10/15/93	1373	67.3	28.38	19.45	92.40	87.80
P5 – L	10/15/93	1365	64.0	28.37	19.45	87.36	82.99
P6 – L	10/15/93	1362	68.0	28.37	19.45	92.62	87.98
P7 – L	10/15/93	1424	65.5	28.38	19.59	93.27	88.58
P8 – L	10/15/93	1420	60.7	28.35	19.59	86.19	81.78
P9 – L	10/15/93	1416	51.8	28.35	19.59	73.35	69.58
P10 – L	10/15/93	1412	66.4	28.35	19.59	93.76	88.96
A1 – L	10/18/93	1360	69.0	28.52	15.43	93.84	90.85

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
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Site and Sampling Code *	Sampling Date Start *	Sampling Time (minutes) *	Flow Rate (cc/min) *	Ambient Pressure (in Hg) *	Ambient Temp. (°C) *	Sample Volume (liters) Actual	Sample Volume (liters) Standard
A2 – L	10/18/93	1355	65.7	28.54	15.43	89.02	86.25
A3 – L	10/18/93	1352	66.2	28.54	15.43	89.50	86.71
A4 – L	10/18/93	1350	65.9	28.54	15.43	88.97	86.20
A5 – L	10/18/93	1346	58.8	28.55	15.49	79.14	76.69
A6 – L	10/18/93	1342	65.3	28.55	15.49	87.63	84.91
A7 – L	10/18/93	1337	68.5	28.55	15.49	91.58	88.75
A8 – L	10/18/93	1298	66.7	28.54	15.49	86.58	83.87
A9 – L	10/18/93	1295	60.4	28.53	15.49	78.22	75.73
A10 – L	10/18/93	1292	64.8	28.52	15.49	83.72	81.05
A11 – L	10/18/93	1358	67.4	28.53	15.43	91.53	88.64
A12 – L	10/18/93	1454	63.7	28.49	15.10	92.62	89.67
A13 – L	10/18/93	1454	65.4	28.50	15.10	95.09	92.10
P1 – L	10/18/93	1287	67.4	28.54	15.42	86.74	84.04
P2 – L	10/18/93	1285	65.2	28.54	15.42	83.78	81.17
P3 – L	10/18/93	1282	66.8	28.54	15.42	85.64	82.98
P4 – L	10/18/93	1278	67.3	28.54	15.42	86.01	83.33
P5 – L	10/18/93	1273	64.0	28.54	15.42	81.47	78.95
P6 – L	10/18/93	1269	68.0	28.54	15.42	86.29	83.62
P7 – L	10/18/93	1330	65.5	28.54	15.33	87.12	84.43
P8 – L	10/18/93	1325	60.7	28.53	15.33	80.43	77.93
P9 – L	10/18/93	1322	51.8	28.53	15.33	68.48	66.35
P10 – L	10/18/93	1319	66.4	28.53	15.33	87.58	84.85
A1 – L	10/20/93	1430	69.0	28.82	11.26	98.67	97.94
A2 – L	10/20/93	1421	65.7	28.82	11.26	93.36	92.67
A3 – L	10/20/93	1419	66.2	28.83	11.26	93.94	93.28
A4 – L	10/20/93	1418	65.9	28.84	11.26	93.45	92.84
A5 – L	10/20/93	1415	58.8	28.85	11.26	83.20	82.68
A6 – L	10/20/93	1414	65.3	28.86	11.26	92.33	91.78
A7 – L	10/20/93	1415	68.5	28.85	11.26	96.93	96.31
A8 – L	10/20/93	1414	66.7	28.84	11.26	94.31	93.70
A9 – L	10/20/93	1421	60.4	28.82	11.19	85.83	85.23
A10 – L	10/20/93	1418	64.8	28.81	11.19	91.89	91.22
A11 – L	10/20/93	1424	67.4	28.82	11.26	95.98	95.29
A12 – L	10/20/93	1435	63.7	28.80	11.15	91.41	90.71
A13 – L	10/20/93	1433	65.4	28.79	11.15	93.72	92.98
P1 – L	10/20/93	1415	67.4	28.82	11.19	95.37	94.69
P2 – L	10/20/93	1414	65.2	28.83	11.19	92.19	91.57
P3 – L	10/20/93	1406	66.8	28.82	11.06	93.92	93.31
P4 – L	10/20/93	1410	67.3	28.82	11.19	94.89	94.23
P5 – L	10/20/93	1405	64.0	28.83	11.06	89.92	89.35
P6 – L	10/20/93	1403	68.0	28.83	11.06	95.40	94.80
P7 – L	10/20/93	1424	65.5	28.83	11.17	93.27	92.65

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
FLOW CALCULATIONS OF PHENOL SAMPLES
AT AMBIENT AND PROCESS LOCATIONS

ENGINEERING–SCIENCE, INC.
FAIRFAX, VA

* data entry from field data sheets

Site and Sampling Code *	Sampling Date Start *	Sampling Time (minutes) *	Flow Rate (cc/min) *	Ambient Pressure (in Hg) *	Ambient Temp. (°C) *	Sample Volume (liters) Actual	Sample Volume (liters) Standard
P8 – L	10/20/93	1418	60.7	28.82	11.17	86.07	85.47
P9 – L	10/20/93	1415	51.8	28.82	11.17	73.30	72.78
P10 – L	10/20/93	1410	66.4	28.82	11.17	93.62	92.98
A1 – L	10/25/93	1443	69.0	28.64	14.73	99.57	97.05
A2 – L	10/25/93	1435	65.7	28.71	14.73	94.28	92.12
A3 – L	10/25/93	1432	66.2	28.72	14.73	94.80	92.66
A4 – L	10/25/93	1423	65.9	28.73	14.73	93.78	91.68
A5 – L	10/25/93	1424	58.8	28.73	14.73	83.73	81.87
A6 – L	10/25/93	1426	65.3	28.72	14.73	93.12	91.02
A7 – L	10/25/93	1425	68.5	28.72	14.73	97.61	95.39
A8 – L	10/25/93	1425	66.7	28.70	14.73	95.05	92.82
A9 – L	10/25/93	1431	60.4	28.67	14.78	86.43	84.32
A10 – L	10/25/93	1432	64.8	28.67	14.78	92.79	90.53
A11 – L	10/25/93	1420	67.4	28.71	14.73	95.71	93.50
A12 – L	10/25/93	1436	63.7	28.66	14.78	91.47	89.19
A13 – L	10/25/93	1437	65.4	28.66	14.78	93.98	91.64
P1 – L	10/25/93	1438	67.4	28.67	14.78	96.92	94.55
P2 – L	10/25/93	1438	65.2	28.68	14.78	93.76	91.48
P3 – L	10/25/93	1438	66.8	28.67	14.78	96.06	93.70
P4 – L	10/25/93	1439	67.3	28.65	14.75	96.84	94.41
P5 – L	10/25/93	1438	64.0	28.70	14.75	92.03	89.87
P6 – L	10/25/93	1437	68.0	28.70	14.75	97.72	95.42
P7 – L	10/25/93	1442	65.5	28.68	14.75	94.45	92.17
P8 – L	10/25/93	1441	60.7	28.67	14.75	87.47	85.33
P9 – L	10/25/93	1442	51.8	28.67	14.75	74.70	72.87
P10 – L	10/25/93	1441	66.4	28.65	14.75	95.68	93.29
A1 – L	10/27/93	1451	69.0	28.67	8.87	100.12	99.72
A2 – L	10/27/93	1450	65.7	28.68	8.87	95.27	94.90
A3 – L	10/27/93	1450	66.2	28.68	8.87	95.99	95.62
A4 – L	10/27/93	1447	65.9	28.68	8.87	95.36	94.99
A5 – L	10/27/93	1447	58.8	28.69	8.87	85.08	84.80
A6 – L	10/27/93	1447	65.3	28.70	8.87	94.49	94.19
A7 – L	10/27/93	1447	68.5	28.69	8.87	99.12	98.78
A8 – L	10/27/93	1446	66.7	28.68	8.87	96.45	96.08
A9 – L	10/27/93	1446	60.4	28.65	9.16	87.34	86.82
A10 – L	10/27/93	1441	64.8	28.64	9.16	93.38	92.81
A11 – L	10/27/93	1450	67.4	28.68	8.87	97.73	97.36
A12 – L	10/27/93	1448	63.7	28.64	8.59	92.24	91.85
A13 – L	10/27/93	1446	65.4	28.65	8.87	94.57	94.12
P1 – L	10/27/93	1445	67.4	28.63	9.16	97.39	96.77
P2 – L	10/27/93	1445	65.2	28.65	9.16	94.21	93.66
P3 – L	10/27/93	1444	66.8	28.65	9.16	96.46	95.89

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
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* data entry from field data sheets

* Site and Sampling Code	* Sampling Date Start	* Sampling Time (minutes)	* Flow Rate (cc/min)	* Ambient Pressure (in Hg)	* Ambient Temp. (°C)	Sample Volume (liters) Actual	Sample Volume (liters) Standard
P4 – L	10/27/93	1443	67.3	28.65	9.16	97.11	96.54
P5 – L	10/27/93	1439	64.0	28.66	9.16	92.10	91.59
P6 – L	10/27/93	1439	68.0	28.65	9.16	97.85	97.28
P7 – L	10/27/93	1433	65.5	28.64	9.16	93.86	93.29
P8 – L	10/27/93	1433	60.7	28.64	9.16	86.98	86.46
P9 – L	10/27/93	1432	51.8	28.63	9.16	74.18	73.69
P10 – L	10/27/93	1430	66.4	28.62	9.16	94.95	94.31
A1 – L	10/29/93	1424	69.0	28.68	−0.49	98.26	101.24
A2 – L	10/29/93	1415	65.7	28.73	−0.49	92.97	95.95
A3 – L	10/29/93	1411	66.2	28.75	−0.49	93.41	96.48
A4 – L	10/29/93	1451	65.9	28.72	−0.75	95.62	98.75
A5 – L	10/29/93	1456	58.8	28.76	−0.75	85.61	88.56
A6 – L	10/29/93	1439	65.3	28.76	−0.75	93.97	97.18
A7 – L	10/29/93	1411	68.5	28.76	−0.49	96.65	99.87
A8 – L	10/29/93	1440	66.7	28.75	−0.75	96.05	99.30
A9 – L	10/29/93	1440	60.4	28.74	−0.87	86.98	89.94
A10 – L	10/29/93	1437	64.8	28.71	−0.87	93.12	96.20
A11 – L	10/29/93	1417	67.4	28.70	−0.49	95.51	98.49
A12 – L	10/29/93	1437	63.7	28.70	−0.75	91.54	94.47
A13 – L	10/29/93	1437	65.4	28.70	−0.75	93.98	96.99
P1 – L	10/29/93	1439	67.4	28.68	−0.87	96.99	100.07
P2 – L	10/29/93	1440	65.2	28.74	−0.87	93.89	97.08
P3 – L	10/29/93	1440	66.8	28.74	−0.87	96.19	99.47
P4 – L	10/29/93	1440	67.3	28.77	−0.87	96.91	100.31
P5 – L	10/29/93	1438	64.0	28.78	−0.87	92.03	95.29
P6 – L	10/29/93	1437	68.0	28.78	−0.87	97.72	101.19
P7 – L	10/29/93	1431	65.5	28.75	−0.87	93.73	96.95
P8 – L	10/29/93	1429	60.7	28.74	−0.87	86.74	89.69
P9 – L	10/29/93	1425	51.8	28.75	−0.87	73.82	76.35
P10 – L	10/29/93	1427	66.4	28.74	−0.87	94.75	97.99
A1 – L	11/01/93	1381	69.0	28.76	9.99	95.29	94.83
A2 – L	11/01/93	1372	65.7	28.80	9.99	90.14	89.82
A3 – L	11/01/93	1372	66.2	28.82	9.99	90.83	90.56
A4 – L	11/01/93	1370	65.9	28.82	9.99	90.28	90.04
A5 – L	11/01/93	1370	58.8	28.84	9.99	80.56	80.38
A6 – L	11/01/93	1369	65.3	28.84	9.99	89.40	89.20
A7 – L	11/01/93	1370	68.5	28.84	10.21	93.85	93.56
A8 – L	11/01/93	1370	66.7	28.83	10.21	91.38	91.07
A9 – L	11/01/93	1369	60.4	28.81	10.21	82.69	82.35
A10 – L	11/01/93	1369	64.8	28.80	10.21	88.71	88.34
A11 – L	11/01/93	1373	67.4	28.79	9.99	92.54	92.17
A12 – L	11/01/93	1383	63.7	28.75	10.21	88.10	87.57

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
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* Site and Sampling Code	* Sampling Date Start	* Sampling Time (minutes)	* Flow Rate (cc/min)	* Ambient Pressure (in Hg)	* Ambient Temp. (°C)	Sample Volume (liters) Actual	Sample Volume (liters) Standard
A13 – L	11/01/93	1385	65.4	28.74	10.21	90.58	89.99
P1 – L	11/01/93	1409	67.4	28.77	10.37	94.97	94.42
P2 – L	11/01/93	1407	65.2	28.79	10.37	91.74	91.27
P3 – L	11/01/93	1406	66.8	28.79	10.37	93.92	93.44
P4 – L	11/01/93	1407	67.3	28.79	10.37	94.69	94.21
P5 – L	11/01/93	1408	64.0	28.79	10.37	90.11	89.65
P6 – L	11/01/93	1409	68.0	28.80	10.37	95.81	95.34
P7 – L	11/01/93	1410	65.5	28.80	10.37	92.36	91.90
P8 – L	11/01/93	1412	60.7	28.80	10.37	85.71	85.28
P9 – L	11/01/93	1407	51.8	28.80	10.51	72.88	72.50
P10 – L	11/01/93	1411	66.4	28.79	10.51	93.69	93.15
A1 – L	11/02/93	1411	69.0	28.80	8.07	97.36	97.67
A2 – L	11/02/93	1410	65.7	28.81	8.07	92.64	92.97
A3 – L	11/02/93	1408	66.2	28.81	8.01	93.21	93.58
A4 – L	11/02/93	1408	65.9	28.83	8.06	92.79	93.20
A5 – L	11/02/93	1408	58.8	28.83	8.06	82.79	83.16
A6 – L	11/02/93	1408	65.3	28.82	8.06	91.94	92.30
A7 – L	11/02/93	1408	68.5	28.83	8.06	96.45	96.86
A8 – L	11/02/93	1407	66.7	28.80	8.06	93.85	94.17
A9 – L	11/02/93	1408	60.4	28.79	8.06	85.04	85.30
A10 – L	11/02/93	1409	64.8	28.79	8.06	91.30	91.57
A11 – L	11/02/93	1411	67.4	28.80	8.07	95.10	95.42
A12 – L	11/02/93	1441	63.7	28.72	8.30	91.79	91.77
A13 – L	11/02/93	1441	65.4	28.71	8.30	94.24	94.19
P1 – L	11/02/93	1433	67.4	28.77	8.30	96.58	96.73
P2 – L	11/02/93	1433	65.2	28.77	8.30	93.43	93.57
P3 – L	11/02/93	1433	66.8	28.78	8.30	95.72	95.90
P4 – L	11/02/93	1440	67.3	28.76	8.48	96.91	96.95
P5 – L	11/02/93	1438	64.0	28.76	8.48	92.03	92.06
P6 – L	11/02/93	1264	68.0	28.74	8.07	85.95	86.06
P7 – L	11/02/93	1436	65.5	28.72	8.48	94.06	93.98
P8 – L	11/02/93	1436	60.7	28.70	8.48	87.17	87.03
P9 – L	11/02/93	1435	51.8	28.70	8.48	74.33	74.20
P10 – L	11/02/93	1432	66.4	28.70	8.48	95.08	94.92
A1 – L	11/04/93	1397	69.0	28.56	13.77	96.39	94.01
A2 – L	11/04/93	1397	65.7	28.58	13.77	91.78	89.57
A3 – L	11/04/93	1397	66.2	28.59	13.77	92.48	90.29
A4 – L	11/04/93	1397	65.9	28.60	13.77	92.06	89.89
A5 – L	11/04/93	1397	58.8	28.61	13.77	82.14	80.25
A6 – L	11/04/93	1397	65.3	28.62	13.77	91.22	89.14
A7 – L	11/04/93	1396	68.5	28.60	13.77	95.63	93.39
A8 – L	11/04/93	1394	66.7	28.60	13.77	92.98	90.79

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* Site and Sampling Code	* Sampling Date Start	* Sampling Time (minutes)	* Flow Rate (cc/min)	* Ambient Pressure (in Hg)	* Ambient Temp. (°C)	Sample Volume (liters) Actual	Sample Volume (liters) Standard
A9 – L	11/04/93	1394	60.4	28.58	13.77	84.20	82.17
A10 – L	11/04/93	1392	64.8	28.58	13.77	90.20	88.02
A11 – L	11/04/93	1396	67.4	28.57	13.77	94.09	91.79
A12 – L	11/04/93	1409	63.7	28.53	13.33	89.75	87.57
A13 – L	11/04/93	1408	65.4	28.55	13.33	92.08	89.89
P1 – L	11/04/93	1387	67.4	28.60	13.77	93.48	91.28
P2 – L	11/04/93	1388	65.2	28.60	13.77	90.50	88.37
P3 – L	11/04/93	1387	66.8	28.59	13.77	92.65	90.45
P4 – L	11/04/93	1387	67.3	28.59	13.77	93.35	91.11
P5 – L	11/04/93	1403	64.0	28.58	13.33	89.79	87.75
P6 – L	11/04/93	1403	68.0	28.58	13.33	95.40	93.23
P7 – L	11/04/93	1400	65.5	28.57	13.33	91.70	89.60
P8 – L	11/04/93	1400	60.7	28.58	12.82	84.98	83.20
P9 – L	11/04/93	1400	51.8	28.58	12.82	72.52	71.01
P10 – L	11/04/93	1401	66.4	28.58	12.82	93.03	91.09
A1 – L	11/06/93	1439	69.0	28.85	1.33	99.29	102.25
A2 – L	11/06/93	1433	65.7	28.92	1.33	94.15	97.19
A3 – L	11/06/93	1433	66.2	28.96	1.33	94.86	98.06
A4 – L	11/06/93	1425	65.9	28.97	1.33	93.91	97.09
A5 – L	11/06/93	1424	58.8	29.01	1.33	83.73	86.70
A6 – L	11/06/93	1423	65.3	29.01	1.33	92.92	96.22
A7 – L	11/06/93	1421	68.5	29.05	1.33	97.34	100.93
A8 – L	11/06/93	1420	66.7	29.05	1.33	94.71	98.21
A9 – L	11/06/93	1419	60.4	29.04	1.33	85.71	88.84
A10 – L	11/06/93	1412	64.8	29.04	1.33	91.50	94.84
A11 – L	11/06/93	1433	67.4	28.89	1.33	96.58	99.60
A12 – L	11/06/93	1427	63.7	28.96	1.48	90.90	93.90
A13 – L	11/06/93	1426	65.4	28.90	1.48	93.26	96.15
P1 – L	11/06/93	1429	67.4	28.93	1.48	96.31	99.40
P2 – L	11/06/93	1427	65.2	28.98	1.48	93.04	96.17
P3 – L	11/06/93	1427	66.8	29.02	1.48	95.32	98.67
P4 – L	11/06/93	1425	67.3	29.00	1.48	95.90	99.20
P5 – L	11/06/93	1424	64.0	28.97	1.48	91.14	94.19
P6 – L	11/06/93	1424	68.0	28.98	1.48	96.83	100.09
P7 – L	11/06/93	1431	65.5	28.95	1.66	93.73	96.72
P8 – L	11/06/93	1427	60.7	28.94	1.66	86.62	89.35
P9 – L	11/06/93	1427	51.8	28.94	1.66	73.92	76.27
P10 – L	11/06/93	1421	66.4	28.95	1.66	94.35	97.37
A1 – L	11/08/93	1454	69.0	28.88	8.76	100.33	100.68
A2 – L	11/08/93	1458	65.7	28.91	8.76	95.79	96.23
A3 – L	11/08/93	1458	66.2	29.21	8.94	96.52	97.92
A4 – L	11/08/93	1465	65.9	28.92	8.94	96.54	96.96

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* Site and Sampling Code	* Sampling Date Start	* Sampling Time (minutes)	* Flow Rate (cc/min)	* Ambient Pressure (in Hg)	* Ambient Temp. (°C)	Sample Volume (liters) Actual	Standard
A5 – L	11/08/93	1465	58.8	28.92	8.94	86.14	86.51
A6 – L	11/08/93	1466	65.3	28.92	8.94	95.73	96.14
A7 – L	11/08/93	1461	68.5	28.91	8.94	100.08	100.49
A8 – L	11/08/93	1487	66.7	28.91	9.03	99.18	99.54
A9 – L	11/08/93	0	60.4	28.90		0.00	0.00
A10 – L	11/08/93	1495	64.8	28.90	9.03	96.88	97.19
A11 – L	11/08/93	1457	67.4	28.90	8.76	98.20	98.62
A12 – L	11/08/93	1480	63.7	28.89	8.94	94.28	94.60
A13 – L	11/08/93	1483	65.4	28.89	8.94	96.99	97.32
P1 – L	11/08/93	1499	67.4	28.90	9.03	101.03	101.36
P2 – L	11/08/93	1500	65.2	28.90	9.03	97.80	98.12
P3 – L	11/08/93	1503	66.8	28.90	9.03	100.40	100.73
P4 – L	11/08/93	1505	67.3	28.90	9.06	101.29	101.61
P5 – L	11/08/93	1499	64.0	28.90	9.06	95.94	96.25
P6 – L	11/08/93	1507	68.0	28.90	9.06	102.48	102.82
P7 – L	11/08/93	1510	65.5	28.90	9.06	98.91	99.23
P8 – L	11/08/93	1513	60.7	28.90	9.06	91.84	92.14
P9 – L	11/08/93	1519	51.8	28.90	9.06	78.68	78.95
P10 – L	11/08/93	1523	66.4	28.90	9.06	101.13	101.46

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
FLOW CALCULATIONS OF PHENOL SAMPLES
AT SOURCE LOCATIONS

ENGINEERING–SCIENCE, INC.
FAIRFAX, VA

* data entry from field data sheets

* Site and Sample Code	* Sampling Date	* Sampling Time (minutes)	* Flow Rate (cc/min)	* Ambient Pressure (in Hg)	* Ambient Temp. (°C)	Sample Volume (liters) Actual	Sample Volume (liters) Standard
S2–1 – L – Probe	09/22/93	70	934.9	28.80	30.67	65.44	60.78
S2–1 – L – Flux	09/22/93	70	932.1	28.80	30.67	65.25	60.60
S2–2 – L – Probe	09/22/93	70	971.1	28.80	30.26	67.98	63.22
S2–2 – L – Flux	09/22/93	70	969.7	28.80	30.26	67.88	63.13
S3 – L – Probe	09/22/93	70	953.3	28.80	30.92	66.73	61.93
S3 – L – Flux	09/22/93	70	950.8	28.80	30.92	66.56	61.76
S5–1 – L – Probe	09/22/93	70	938.4	28.80	28.52	65.69	61.44
S5–1 – L – Flux	09/22/93	70	950.6	28.80	28.52	66.54	62.24
S5–2 – L – Probe	09/22/93	70	962.7	28.80	28.52	67.39	63.04
S5–2 – L – Flux	09/22/93	70	975.2	28.80	28.52	68.26	63.85
S6–1 – L – Probe	09/22/93	70	953.3	28.80	29.35	66.73	62.25
S8 – L – Probe	09/23/93	70	950.8	28.92	24.24	66.56	63.41
S9 – L – Probe	09/23/93	53	950.8	28.85	23.80	50.39	47.97
S9 – L – Flux	09/23/93	70	975.4	28.94	25.70	68.28	64.78
S11–1 – L – Probe	09/23/93	70	949.9	28.92	24.24	66.49	63.35
S12 – L – Probe	09/23/93	70	949.9	28.85	24.25	66.49	63.20
S12 – L – Flux	09/23/93	70	934.5	28.85	24.25	65.42	62.17
S19 – L – Probe	09/23/93	70	962.7	28.85	23.80	67.39	64.15
S20–2 – L – Probe	09/23/93	70	953.3	28.85	23.80	66.73	63.52
S21–2 – L – Probe	09/23/93	70	944.4	28.92	24.86	66.11	62.86
S22 – L – Probe	09/23/93	70	953.3	28.92	24.86	66.73	63.45
S23 – L – Probe	09/23/93	70	975.4	28.92	24.86	68.28	64.92
S2–1 – L – Probe	09/24/93	70	944.4	28.90	20.68	66.11	63.71
S2–1 – L – Flux	09/24/93	70	934.5	28.90	20.68	65.42	63.04
S2–2 – L – Probe	09/24/93	70	953.2	28.90	20.00	66.72	64.45
S2–2 – L – Flux	09/24/93	70	975.4	28.90	20.00	68.28	65.95
S3 – L – Probe	09/24/93	70	949.9	28.90	20.68	66.49	64.08
S3 – L – Flux	09/24/93	70	967.6	28.90	20.68	67.73	65.27
S5–1 – L – Probe	09/24/93	70	938.4	28.88	22.17	65.69	62.94
S5–1 – L – Flux	09/24/93	70	950.6	28.88	22.17	66.54	63.76
S5–2 – L – Probe	09/24/93	70	1015	28.88	22.17	71.05	68.08
S5–2 – L – Flux	09/24/93	70	1000.0	28.88	22.17	70.00	67.07
S13–1 – L – Probe	09/25/93	70	949.9	28.79	16.21	66.49	64.82
S16 – L – Probe	09/25/93	70	967.6	28.79	15.98	67.73	66.08
S2–1 – L – Flux	09/27/93	70	944.4	29.10	16.51	66.11	65.07

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
FLOW CALCULATIONS OF PHENOL SAMPLES
AT SOURCE LOCATIONS

ENGINEERING–SCIENCE, INC.
FAIRFAX, VA

* data entry from field data sheets

* Site and Sample Code	* Sampling Date	* Sampling Time (minutes)	* Flow Rate (cc/min)	* Ambient Pressure (in Hg)	* Ambient Temp. (°C)	Sample Volume (liters) Actual	Sample Volume (liters) Standard
S2–2 – L – Flux	09/27/93	70	953.2	29.10	16.51	66.72	65.68
S3 – L – Flux	09/27/93	70	949.9	29.10	17.75	66.49	65.17
S5–1 – L – Flux	09/27/93	70	938.4	29.10	19.74	65.69	63.94
S5–2 – L – Flux	09/27/93	70	950.6	29.10	20.73	66.54	64.56
S6–1 – L – Probe	09/27/93	70	949.9	29.00	23.94	66.49	63.59
S8 – L – Probe	09/27/93	70	950.8	28.86	25.49	66.56	63.02
S9 – L – Probe	09/27/93	70	950.8	29.10	22.45	66.56	64.20
S9 – L – Flux	09/27/93	70	934.5	29.10	22.45	65.42	63.09
S11–1 – L – Probe	09/27/93	70	938.4	28.86	25.73	65.69	62.15
S12 – L – Probe	09/27/93	70	944.4	28.86	24.92	66.11	62.71
S12 – L – Flux	09/27/93	70	975.4	28.86	24.92	68.28	64.77
S13–1 – L – Probe	09/27/93	70	934.5	28.86	25.49	65.41	61.94
S16 – L – Probe	09/28/93	70	935.1	28.92	19.02	65.46	63.48
S19 – L – Probe	09/28/93	70	938.4	28.92	21.66	65.69	63.13
S21–2 – L – Probe	09/28/93	70	975.4	28.92	21.66	68.28	65.62
S22 – L – Probe	09/28/93	70	950.8	28.92	21.66	66.56	63.97
S23 – L – Probe	09/28/93	70	944.4	28.92	20.29	66.11	63.83
S8 – L – Probe	09/29/93	70	938.4	29.35	21.53	65.69	64.10
S9 – L – Flux	09/29/93	70	935.1	29.35	22.11	65.46	63.75
S11–1 – L – Probe	09/29/93	70	950.8	29.35	21.53	66.56	64.95
S12 – L – Flux	09/29/93	70	950.6	29.35	22.11	66.54	64.81
S13–1 – L – Probe	09/29/93	70	934.5	29.35	21.53	65.42	63.84
S16 – L – Probe	09/29/93	70	935.1	28.80	15.40	65.46	64.01
S19 – L – Probe	09/29/93	70	938.4	28.80	16.15	65.69	64.07
S6–1 – L – Probe	09/30/93	70	938.4	28.75	19.20	65.69	63.29
S2–2 – L – Flux	10/01/93	70	935.1	28.36	22.67	65.46	61.48
S3 – L – Flux	10/01/93	70	950.8	28.36	22.67	66.56	62.52
S5–2 – L – Flux	10/01/93	70	950.6	28.38	24.47	66.54	62.17
S9 – L – Flux	10/01/93	70	944	28.39	26.06	66.08	61.43
S2–2 – L – Flux	10/04/93	70	935.1	28.64	15.36	65.46	63.66
S3 – L – Flux	10/04/93	70	950.8	28.64	16.1	66.56	64.57
S5–2 – L – Flux	10/04/93	70	950.6	28.65	17.79	66.54	64.20
S9 – L – Flux	10/04/93	70	944	28.62	19.91	66.08	63.23
S2–2 – L – Flux	10/06/93	70	944.8	29.88	16.2	66.14	66.91
S3 – L – Flux	10/06/93	70	929.3	29.88	17.28	65.05	65.57

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
FLOW CALCULATIONS OF PHENOL SAMPLES
AT SOURCE LOCATIONS

ENGINEERING–SCIENCE, INC.
FAIRFAX, VA

* data entry from field data sheets

* Site and Sample Code	* Sampling Date	* Sampling Time (minutes)	* Flow Rate (cc/min)	* Ambient Pressure (in Hg)	* Ambient Temp. (°C)	Sample Volume (liters) Actual	Sample Volume (liters) Standard
S5–2 – L – Flux	10/06/93	70	924.9	29.88	19.53	64.74	64.76
S9 – L – Flux	10/06/93	70	909.2	29.88	22.06	63.64	63.12
S2–2 – L – Flux	10/08/93	70	944.8	29.58	19.49	66.14	65.50
S3 – L – Flux	10/08/93	70	929.3	29.59	19.49	65.05	64.45
S5–2 – L – Flux	10/08/93	70	924.9	29.6	20.49	64.74	63.94
S9 – L – Flux	10/08/93	70	909.2	29.59	21.87	63.64	62.54
S2–2 – L – Flux	10/11/93	70	944.8	29.91	16.02	66.14	67.02
S3 – L – Flux	10/11/93	70	929.3	29.89	16.02	65.05	65.88
S5–2 – L – Flux	10/11/93	70	924.9	29.89	17.73	64.74	65.18
S9 – L – Flux	10/11/93	70	909.2	29.89	18.5	63.64	63.91
S2–2 – L – Flux	10/13/93	70	944.8	29.88	16.77	66.14	66.78
S3 – L – Flux	10/13/93	70	929.3	29.86	18.72	65.05	65.20
S5–2 – L – Flux	10/13/93	70	924.9	29.86	20.55	64.74	64.49
S9 – L – Flux	10/13/93	70	909.2	29.86	20.55	63.64	63.40
S2–2 – L – Flux	10/15/93	70	944.8	28.5	16.13	66.14	63.84
S3 – L – Flux	10/15/93	70	929.3	28.47	16.13	65.05	62.73
S5–2 – L – Flux	10/15/93	70	924.9	28.46	16.13	64.74	62.41
S9 – L – Flux	10/15/93	70	909.2	28.48	16.71	63.64	61.27
S2–2 – L – Flux	10/18/93	70	944.8	28.44	15.1	66.14	63.93
S3 – L – Flux	10/18/93	70	929.3	28.43	15.45	65.05	62.78
S5–2 – L – Flux	10/18/93	70	924.9	28.44	15.45	64.74	62.51
S9 – L – Flux	10/18/93	70	909.2	28.43	17.78	63.64	60.94
S2–2 – L – Flux	10/20/93	70	944.8	28.65	12.9	66.14	64.90
S3 – L – Flux	10/20/93	70	929.3	28.65	12.9	65.05	63.83
S5–2 – L – Flux	10/20/93	70	924.9	28.65	13.35	64.74	63.43
S9 – L – Flux	10/20/93	70	909.2	28.62	14.32	63.64	62.08
S2–2 – L – Flux	10/25/93	70	944.8	28.59	9.76	66.14	65.48
S3 – L – Flux	10/25/93	70	929.3	28.62	11.61	65.05	64.06
S5–2 – L – Flux	10/25/93	70	924.9	28.58	14.17	64.74	63.10
S9 – L – Flux	10/25/93	70	909.2	28.56	16.65	63.64	61.45
S2–2 – L – Flux	10/27/93	70	944.8	28.99	4.97	66.14	67.54
S3 – L – Flux	10/27/93	70	929.3	29	4.97	65.05	66.46
S5–2 – L – Flux	10/27/93	70	924.9	28.96	6.37	64.74	65.72
S9 – L – Flux	10/27/93	70	909.2	28.95	7.49	63.64	64.32
S2–2 – L – Flux	10/29/93	70	944.8	28.67	4.4	66.14	66.93

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
FLOW CALCULATIONS OF PHENOL SAMPLES
AT SOURCE LOCATIONS

ENGINEERING–SCIENCE, INC.
FAIRFAX, VA

* data entry from field data sheets

* Site and Sample Code	* Sampling Date	* Sampling Time (minutes)	* Flow Rate (cc/min)	* Ambient Pressure (in Hg)	* Ambient Temp. (°C)	Sample Volume (liters) Actual	Sample Volume (liters) Standard
S3 – L – Flux	10/29/93	70	929.3	28.66	3.01	65.05	66.14
S5–2 – L – Flux	10/29/93	70	924.9	28.49	3.01	64.74	65.44
S9 – L – Flux	10/29/93	70	909.2	28.55	2.79	63.64	64.51
S2–2 – L – Flux	11/01/93	70	944.8	28.71	3.81	66.14	67.17
S3 – L – Flux	11/01/93	70	929.3	28.74	3.81	65.05	66.14
S5–2 – L – Flux	11/01/93	70	924.9	28.71	5.35	64.74	65.39
S9 – L – Flux	11/01/93	70	909.2	28.74	8.89	63.64	63.54
S2–1 – L – Flux	11/02/93	70	944.8	28.82	9.5	66.14	66.07
S3 – L – Flux	11/02/93	70	929.3	28.82	8.94	65.05	65.11
S5–2 – L – Flux	11/02/93	70	924.9	28.82	10.59	64.74	64.43
S9 – L – Flux	11/02/93	70	909.2	28.83	11.64	63.64	63.12
S2–1 – L – Flux	11/04/93	70	944.8	28.34	12.2	66.14	64.35
S3 – L – Flux	11/04/93	70	929.3	28.34	12.2	65.05	63.30
S5–2 – L – Flux	11/04/93	70	924.9	28.31	13.63	64.74	62.62
S9 – L – Flux	11/04/93	70	909.2	28.32	15.99	63.64	61.08
S2–1 – L – Flux	11/06/93	70	944.8	29.01	–4.18	66.14	69.88
S3 – L – Flux	11/06/93	70	929.3	29.12	–4.33	65.05	69.04
S5–2 – L – Flux	11/06/93	70	924.9	29.07	–3.55	64.74	68.39
S9 – L – Flux	11/06/93	70	909.2	29.06	–3.11	63.64	67.10
S2–1 – L – Flux	11/08/93	70	944.8	28.79	1.75	66.14	67.86
S3 – L – Flux	11/08/93	70	929.3	28.79	1.75	65.05	66.75
S5–2 – L – Flux	11/08/93	70	924.9	28.82	3.78	64.74	66.01
S9 – L – Flux	11/08/93	70	909.2	28.81	6.8	63.64	64.17

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
FLOW CALCULATIONS OF FORMALDEHYDE SAMPLES
AT AMBIENT AND PROCESS LOCATIONS

ENGINEERING–SCIENCE, INC.
FAIRFAX, VA

* data entry from field data sheets

* Site and Sampling Code	* Sampling Date Start	* Sampling Time (minutes)	* Flow Rate (cc/min)	* Ambient Pressure (in Hg)	* Ambient Temp. (°C)	Sample Volume (liters) Actual	Standard
A1 – F	09/22/93	1385	958.1	28.91	26.08	1326.97	1256.13
A2 – F	09/22/93	1375	961.0	28.90	26.08	1321.38	1250.40
A3 – F	09/22/93	1375	955.9	28.91	26.08	1314.36	1244.20
A4 – F	09/22/93	1443	987.9	28.90	25.52	1425.54	1351.50
A5 – F	09/22/93	1447	947.4	29.39	25.52	1370.89	1321.72
A6 – F	09/22/93	1433	947.4	29.25	25.52	1357.62	1302.70
A7 – F	09/22/93	1427	952.6	28.85	25.52	1359.36	1286.53
A8 – F	09/22/93	1428	982.8	28.90	25.23	1403.44	1331.84
A9 – F	09/22/93	1396	976.1	28.91	26.48	1362.64	1288.17
A10 – F	09/22/93	1462	927.0	28.83	25.23	1355.27	1283.02
A11 – F	09/22/93	1380	937.5	28.90	26.08	1293.75	1224.26
A12 – F	09/22/93	1423	953.1	28.83	24.95	1356.26	1285.16
A13 – F	09/22/93	1424	948.5	28.82	24.95	1350.66	1279.41
P1 – F	09/22/93	1235	943.4	28.87	23.69	1165.10	1110.24
P2 – F	09/22/93	1273	953.5	28.88	23.99	1213.81	1155.88
P3 – F	09/22/93	1288	941.6	28.86	24.34	1212.78	1152.75
P4 – F	09/22/93	1346	957.9	28.89	24.05	1289.33	1227.98
P5 – F	09/22/93	1328	943.4	28.88	24.05	1252.84	1192.81
P6 – F	09/22/93	1324	1005.0	28.88	24.05	1330.62	1266.87
P7 – F	09/22/93	1324	955.7	28.86	24.05	1265.35	1203.89
P8 – F	09/22/93	1275	965.5	28.86	23.49	1231.01	1173.43
P9 – F	09/22/93	1305	815.3	28.86	23.81	1063.97	1013.11
P10 – F	09/22/93	1277	958.1	28.86	23.49	1223.49	1166.26
A1 – F	09/24/93	1410	958.1	28.91	20.64	1350.92	1302.47
A2 – F	09/24/93	1409	961.0	28.96	20.85	1354.05	1306.81
A3 – F	09/24/93	1408	955.9	28.95	20.85	1345.91	1298.50
A4 – F	09/24/93	1410	987.9	28.98	20.59	1392.94	1346.46
A5 – F	09/24/93	1410	947.4	28.98	20.59	1335.83	1291.26
A6 – F	09/24/93	1411	947.4	28.98	20.59	1336.78	1292.17
A7 – F	09/24/93	1468	952.6	28.92	20.59	1398.42	1348.95
A8 – F	09/24/93	1465	982.8	28.92	20.59	1439.80	1388.88
A9 – F	09/24/93	1464	976.1	28.90	20.59	1429.01	1377.51
A10 – F	09/24/93	1463	927.0	28.89	20.59	1356.20	1306.88
A11 – F	09/24/93	1410	937.5	28.91	20.64	1321.88	1274.46
A12 – F	09/24/93	1488	953.1	28.90	20.53	1418.21	1367.38
A13 – F	09/24/93	1488	948.5	28.86	20.53	1411.37	1358.90
P1 – F	09/24/93	1482	943.4	28.88	20.44	1398.12	1347.49
P2 – F	09/24/93	1501	953.5	28.86	20.44	1431.20	1378.42
P3 – F	09/24/93	1499	941.6	28.72	20.44	1411.46	1352.81
P4 – F	09/24/93	1484	957.9	28.82	20.44	1421.52	1367.20
P5 – F	09/24/93	1480	943.4	28.83	20.44	1396.23	1343.34
P6 – F	09/24/93	1480	1005.0	28.82	20.33	1487.40	1431.10

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
FLOW CALCULATIONS OF FORMALDEHYDE SAMPLES
AT AMBIENT AND PROCESS LOCATIONS

ENGINEERING–SCIENCE, INC.
FAIRFAX, VA

* data entry from field data sheets

* Site and Sampling Code	* Sampling Date Start	* Sampling Time (minutes)	* Flow Rate (cc/min)	* Ambient Pressure (in Hg)	* Ambient Temp. (°C)	Sample Volume (liters) Actual	Sample Volume (liters) Standard
P7 – F	09/24/93	1479	955.7	28.82	20.33	1413.48	1359.97
P8 – F	09/24/93	1477	965.5	28.80	20.33	1426.04	1371.11
P9 – F	09/24/93	1464	815.3	28.80	20.33	1193.60	1147.62
P10 – F	09/24/93	1470	958.1	28.79	20.33	1408.41	1353.68
A1 – F	09/27/93	1373	958.1	29.01	20.77	1315.47	1272.11
A2 – F	09/27/93	1370	961.0	29.01	20.77	1316.57	1273.18
A3 – F	09/27/93	1371	955.9	29.01	20.77	1310.54	1267.34
A4 – F	09/27/93	1369	987.9	29.01	20.77	1352.44	1307.86
A5 – F	09/27/93	1369	947.4	29.01	20.84	1296.99	1253.94
A6 – F	09/27/93	1367	947.4	29.01	20.84	1295.10	1252.11
A7 – F	09/27/93	1371	952.6	29.01	20.84	1306.01	1262.67
A8 – F	09/27/93	1372	982.8	29.01	20.84	1348.40	1303.65
A9 – F	09/27/93	1364	976.1	28.99	20.84	1331.40	1286.32
A10 – F	09/27/93	1363	927.0	28.98	20.84	1263.50	1220.30
A11 – F	09/27/93	1373	937.5	29.01	20.77	1287.19	1244.76
A12 – F	09/27/93	1349	953.1	28.96	20.94	1285.73	1240.49
A13 – F	09/27/93	1106	948.5	28.96	21.04	1049.04	1011.79
P1 – F	09/27/93	1409	943.4	28.96	20.94	1329.25	1282.48
P2 – F	09/27/93	1407	953.5	28.96	20.94	1341.57	1294.37
P3 – F	09/27/93	1409	941.6	28.96	20.94	1326.71	1280.03
P4 – F	09/27/93	1406	957.9	28.96	21.05	1346.81	1298.93
P5 – F	09/27/93	1406	943.4	28.96	21.05	1326.42	1279.27
P6 – F	09/27/93	1409	1005.0	28.96	21.05	1416.05	1365.71
P7 – F	09/27/93	1406	955.7	28.94	21.25	1343.71	1294.18
P8 – F	09/27/93	1410	965.5	28.94	21.25	1361.36	1311.17
P9 – F	09/27/93	1409	815.3	28.93	21.05	1148.76	1106.78
P10 – F	09/27/93	979	958.1	28.89	20.60	937.98	903.83
A1 – F	09/29/93	1382	958.1	28.73	19.13	1324.09	1275.20
A2 – F	09/29/93	1383	961.0	28.73	19.13	1329.06	1279.99
A3 – F	09/29/93	1383	955.9	28.74	19.13	1322.01	1273.64
A4 – F	09/29/93	1381	987.9	28.75	19.13	1364.29	1314.83
A5 – F	09/29/93	1382	947.4	28.76	19.13	1309.31	1262.28
A6 – F	09/29/93	1380	947.4	28.75	19.13	1307.41	1260.01
A7 – F	09/29/93	1378	952.6	28.75	19.12	1312.68	1265.14
A8 – F	09/29/93	1197	982.8	28.74	19.50	1176.41	1131.94
A9 – F	09/29/93	1412	976.1	29.38	19.12	1378.25	1357.44
A10 – F	09/29/93	1411	927.0	29.38	19.12	1308.00	1288.25
A11 – F	09/29/93	1382	937.5	28.72	19.13	1295.63	1247.35
P1 – F	09/29/93	1409	943.4	29.38	19.12	1329.25	1309.18
P2 – F	09/29/93	1411	953.5	29.38	19.12	1345.39	1325.07
P3 – F	09/29/93	1408	941.6	29.39	19.12	1325.77	1306.20
P4 – F	09/29/93	1410	957.9	29.38	19.21	1350.64	1329.83

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
FLOW CALCULATIONS OF FORMALDEHYDE SAMPLES
AT AMBIENT AND PROCESS LOCATIONS

ENGINEERING–SCIENCE, INC.
FAIRFAX, VA

* data entry from field data sheets

* Site and Sampling Code	* Sampling Date Start	* Sampling Time (minutes)	* Flow Rate (cc/min)	* Ambient Pressure (in Hg)	* Ambient Temp. (°C)	Sample Volume (liters) Actual	Standard
P5 – F	09/29/93	1712	943.4	29.38	19.21	1615.10	1590.22
P6 – F	09/29/93	1413	1005.0	29.39	19.21	1420.07	1398.67
P7 – F	09/29/93	1412	955.7	29.37	19.21	1349.45	1328.21
P8 – F	09/29/93	1411	965.5	29.37	19.21	1362.32	1340.88
P9 – F	09/29/93	1411	815.3	29.36	19.21	1150.39	1131.90
P10 – F	09/29/93	1406	958.1	29.35	19.12	1347.09	1325.39
A1 – F	10/01/93	1412	958.1	28.47	21.85	1352.84	1278.97
A2 – F	10/01/93	1412	961.0	28.49	21.85	1356.93	1283.97
A3 – F	10/01/93	1413	955.9	28.49	21.85	1350.69	1278.06
A4 – F	10/01/93	1408	987.9	28.50	21.90	1390.96	1316.41
A5 – F	10/01/93	1406	947.4	28.51	21.90	1332.04	1260.87
A6 – F	10/01/93	1405	947.4	28.50	21.90	1331.10	1259.75
A7 – F	10/01/93	1401	952.6	28.50	21.90	1334.59	1263.06
A8 – F	10/01/93	1402	982.8	28.50	21.90	1377.89	1304.03
A9 – F	10/01/93	1401	976.1	28.50	21.62	1367.52	1295.22
A10 – F	10/01/93	1402	927.0	28.50	21.62	1299.65	1230.95
A11 – F	10/01/93	1412	937.5	28.48	21.85	1323.75	1252.13
A12 – F	10/01/93	1394	953.1	28.50	21.62	1328.62	1258.38
A13 – F	10/01/93	1389	948.5	28.50	21.62	1317.47	1248.04
P1 – F	10/01/93	1385	943.4	28.53	21.28	1306.61	1240.27
P2 – F	10/01/93	1384	953.5	28.52	21.28	1319.64	1252.42
P3 – F	10/01/93	1382	941.6	28.52	21.28	1301.29	1235.00
P4 – F	10/01/93	1379	957.9	28.53	21.28	1320.94	1253.88
P5 – F	10/01/93	1366	943.4	28.54	21.28	1288.68	1223.68
P6 – F	10/01/93	1359	1005.0	28.53	21.28	1365.80	1296.45
P7 – F	10/01/93	1355	955.7	28.53	21.28	1294.97	1229.44
P8 – F	10/01/93	1348	965.5	28.52	21.07	1301.49	1236.08
P9 – F	10/01/93	1343	815.3	28.47	20.66	1094.95	1039.54
P10 – F	10/01/93	1341	958.1	28.50	20.66	1284.81	1220.86

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
FLOW CALCULATIONS OF FORMALDEHYDE SAMPLES
AT SOURCE LOCATIONS

ENGINEERING–SCIENCE, INC.
FAIRFAX, VA

* data entry from field data sheets

* Site and Sample Code	* Sampling Date	* Sampling Time (minutes)	* Flow Rate (cc/min)	* Ambient Pressure (in Hg)	* Ambient Temp. (°C)	Sample Volume (liters) Actual	Sample Volume (liters) Standard
S2–1 – F – Probe	09/22/93	70	950.6	28.80	30.67	66.54	61.80
S2–1 – F – Flux	09/22/93	70	929.7	28.80	30.67	65.08	60.44
S2–2 – F – Probe	09/22/93	70	942.7	28.80	30.26	65.99	61.37
S2–2 – F – Flux	09/22/93	70	935.6	28.80	30.26	65.49	60.91
S3 – F – Probe	09/22/93	70	955.4	28.80	30.92	66.88	62.06
S3 – F – Flux	09/22/93	70	932.2	28.80	30.92	65.25	60.56
S5–1 – F – Probe	09/22/93	70	949.6	28.80	28.52	66.47	62.18
S5–1 – F – Flux	09/22/93	70	957.7	28.80	28.52	67.04	62.71
S5–2 – F – Probe	09/22/93	70	944.4	28.80	28.52	66.11	61.84
S5–2 – F – Flux	09/22/93	70	939.4	28.80	28.52	65.76	61.51
S6–1 – F – Probe	09/22/93	70	955.4	28.80	29.35	66.88	62.39
S8 – F – Probe	09/23/93	70	955.4	28.92	24.24	66.88	63.72
S9 – F – Probe	09/23/93	53	955.4	28.85	23.80	50.64	48.20
S9 – F – Flux	09/23/93	70	939.4	28.94	25.70	65.76	62.39
S11–1 – F – Probe	09/23/93	70	935.1	28.92	24.24	65.46	62.37
S12 – F – Probe	09/23/93	70	935.1	28.85	24.25	65.46	62.21
S12 – F – Flux	09/23/93	70	928.8	28.85	24.25	65.02	61.80
S19 – F – Probe	09/23/93	70	944.4	28.85	23.80	66.11	62.93
S20–2 – F – Probe	09/23/93	70	928.1	28.85	23.80	64.97	61.84
S21–2 – F – Probe	09/23/93	70	962.7	28.92	24.86	67.39	64.07
S22 – F – Probe	09/23/93	70	932.2	28.92	24.86	65.25	62.04
S23 – F – Probe	09/23/93	70	939.4	28.92	24.86	65.76	62.52
S2–1 – F – Probe	09/24/93	70	928.8	28.90	20.68	65.02	62.65
S2–1 – F – Flux	09/24/93	70	951.2	28.90	20.68	66.58	64.16
S2–2 – F – Probe	09/24/93	70	961.7	28.90	20.00	67.32	65.02
S2–2 – F – Flux	09/24/93	70	939.4	28.90	20.00	65.76	63.52
S3 – F – Probe	09/24/93	70	935.1	28.90	20.68	65.46	63.08
S3 – F – Flux	09/24/93	70	932.2	28.90	20.68	65.25	62.88
S5–1 – F – Probe	09/24/93	70	949.6	28.88	22.17	66.47	63.69
S5–1 – F – Flux	09/24/93	70	957.7	28.88	22.17	67.04	64.23
S5–2 – F – Probe	09/24/93	70	962.7	28.88	22.17	67.39	64.57
S5–2 – F – Flux	09/24/93	70	1000.0	28.88	22.17	70.00	67.07
S13–1 – F – Probe	09/25/93	70	935.1	28.79	16.21	65.46	63.81
S16 – F – Probe	09/25/93	70	932.2	28.79	15.98	65.25	63.66
S2–1 – F – Flux	09/27/93	70	928.8	29.10	16.51	65.02	64.00

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
FLOW CALCULATIONS OF FORMALDEHYDE SAMPLES
AT SOURCE LOCATIONS

ENGINEERING–SCIENCE, INC.
FAIRFAX, VA

* data entry from field data sheets

* Site and Sample Code	* Sampling Date	* Sampling Time (minutes)	* Flow Rate (cc/min)	* Ambient Pressure (in Hg)	* Ambient Temp. (°C)	Sample Volume (liters) Actual	Sample Volume (liters) Standard
S2–2 – F – Flux	09/27/93	70	961.7	29.10	16.51	67.32	66.26
S3 – F – Flux	09/27/93	70	935.1	29.10	17.75	65.46	64.15
S5–1 – F – Flux	09/27/93	70	949.6	29.10	19.74	66.47	64.71
S5–2 – F – Flux	09/27/93	70	957.7	29.10	20.73	67.04	65.04
S6–1 – F – Probe	09/27/93	70	935.1	29.00	23.94	65.46	62.60
S8 – F – Probe	09/27/93	70	955.4	28.86	25.49	66.88	63.32
S9 – F – Probe	09/27/93	70	955.4	29.10	22.45	66.88	64.51
S9 – F – Flux	09/27/93	70	951.2	29.10	22.45	66.58	64.22
S11–1 – F – Probe	09/27/93	70	949.6	28.86	25.73	66.47	62.89
S12 – F – Probe	09/27/93	70	928.8	28.86	24.92	65.02	61.68
S12 – F – Flux	09/27/93	70	939.4	28.86	24.92	65.76	62.38
S13–1 – F – Probe	09/27/93	70	951.2	28.86	25.49	66.58	63.04
S16 – F – Probe	09/28/93	70	949.9	28.92	19.02	66.49	64.49
S19 – F – Probe	09/28/93	70	949.6	28.92	21.66	66.47	63.89
S21–2 – F – Probe	09/28/93	70	939.4	28.92	21.66	65.76	63.20
S22 – F – Probe	09/28/93	70	955.4	28.92	21.66	66.88	64.28
S23 – F – Probe	09/28/93	70	928.8	28.92	20.29	65.02	62.78
S8 – F – Probe	09/29/93	70	949.6	29.35	21.53	66.47	64.87
S9 – F – Flux	09/29/93	70	949.9	29.35	22.11	66.49	64.76
S11–1 – F – Probe	09/29/93	70	955.4	29.35	21.53	66.88	65.26
S12 – F – Flux	09/29/93	70	957.7	29.35	22.11	67.04	65.29
S13–1 – F – Probe	09/29/93	70	951.2	29.35	21.53	66.58	64.98
S16 – F – Probe	09/29/93	70	949.9	28.80	15.40	66.49	65.02
S19 – F – Probe	09/29/93	70	949.6	28.80	16.15	66.47	64.83
S6–1 – F – Probe	09/30/93	70	949.6	28.75	19.20	66.47	64.05

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
FLOW CALCULATIONS OF HYDROGEN SULFIDE SAMPLES
AT AMBIENT LOCATIONS

ENGINEERING–SCIENCE, INC.
FAIRFAX, VA

* data entry from field data sheets

* Site and Sampling Code	* Sampling Date Start	* Sampling Time (minutes)	* Flow Rate (cc/min)	* Ambient Pressure (in Hg)	* Ambient Temp. (°C)	Sample Volume (liters) Actual	Sample Volume (liters) Standard
A1 – SA	10/25/93	120	958.4	28.57	46.12	115.01	109.72
A2 – SA	10/25/93	120	960.9	28.59	46.28	115.31	110.05
A3 – SA	10/25/93	120	955.6	28.59	45.93	114.67	109.20
A7 – SA	10/25/93	120	953.3	28.59	45.78	114.40	108.43
A11 – SA	10/25/93	120	937.5	28.59	44.72	112.50	107.74
A12 – SA	10/25/93	120	933.6	28.55	44.46	112.03	105.80
A13 – SA	10/25/93	120	944.9	28.55	45.22	113.39	107.20
A1 – SB	10/25/93	120	958.4	28.52	46.12	115.01	107.08
A2 – SB	10/25/93	120	960.9	28.51	46.28	115.31	106.82
A3 – SB	10/25/93	120	955.6	28.51	45.93	114.67	106.17
A7 – SB	10/25/93	120	953.3	28.52	45.78	114.40	105.76
A11 – SB	10/25/93	120	937.5	28.50	44.72	112.50	104.65
A12 – SB	10/25/93	120	933.6	28.48	44.46	112.03	103.84
A13 – SB	10/25/93	120	944.9	28.48	45.22	113.39	105.08
A1 – SA	10/27/93	120	958.4	28.98	46.12	115.01	113.87
A2 – SA	10/27/93	120	960.9	28.98	46.28	115.31	113.47
A3 – SA	10/27/93	120	955.6	28.98	45.93	114.67	112.42
A7 – SA	10/27/93	120	953.3	28.98	45.78	114.40	112.72
A11 – SA	10/27/93	120	937.5	28.98	44.72	112.50	110.81
A12 – SA	10/27/93	120	933.6	28.94	44.46	112.03	111.20
A13 – SA	10/27/93	120	944.9	28.96	45.22	113.39	112.61
A1 – SB	10/27/93	120	958.4	28.93	46.12	115.01	111.76
A2 – SB	10/27/93	120	960.9	28.93	46.28	115.31	112.05
A3 – SB	10/27/93	120	955.6	28.93	45.93	114.67	111.43
A7 – SB	10/27/93	120	953.3	28.93	45.78	114.40	111.16
A11 – SB	10/27/93	120	937.5	28.93	44.72	112.50	109.32
A12 – SB	10/27/93	120	933.6	28.93	44.46	112.03	109.17
A13 – SB	10/27/93	120	944.9	28.93	45.22	113.39	110.49
A1 – SA	10/29/93	120	958.2	28.54	46.10	114.98	115.85
A2 – SA	10/29/93	120	949.1	28.57	45.50	113.89	114.26
A3 – SA	10/29/93	120	929.8	28.60	44.21	111.58	112.18
A7 – SA	10/29/93	120	889.0	28.60	41.49	106.68	107.55
A11 – SA	10/29/93	120	802.8	42.55	35.74	96.34	143.77
A12 – SA	10/29/93	120	867.5	28.59	40.06	104.10	104.83
A13 – SA	10/29/93	120	935.6	28.59	44.60	112.27	112.84
A1 – SB	10/29/93	120	958.2	28.52	46.10	114.98	116.67
A2 – SB	10/29/93	120	949.1	28.52	45.50	113.89	115.57
A3 – SB	10/29/93	120	929.8	28.52	44.21	111.58	113.22
A7 – SB	10/29/93	120	889.0	28.52	41.49	106.68	108.25
A11 – SB	10/29/93	120	802.8	28.52	35.74	96.34	97.75
A12 – SB	10/29/93	120	867.5	28.52	40.06	104.10	105.63
A13 – SB	10/29/93	120	935.6	28.52	44.60	112.27	113.92

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
FLOW CALCULATIONS OF HYDROGEN SULFIDE SAMPLES
AT AMBIENT LOCATIONS

ENGINEERING–SCIENCE, INC.
FAIRFAX, VA

* data entry from field data sheets

* Site and Sampling Code	* Sampling Date Start	* Sampling Time (minutes)	* Flow Rate (cc/min)	* Ambient Pressure (in Hg)	* Ambient Temp. (°C)	Sample Volume (liters) Actual	Sample Volume (liters) Standard
A1 – SA	11/01/93	120	958.2	28.72	46.10	114.98	114.92
A2 – SA	11/01/93	120	949.1	28.72	45.50	113.89	113.83
A3 – SA	11/01/93	120	929.8	28.72	44.21	111.58	111.52
A7 – SA	11/01/93	120	889.0	28.72	41.49	106.68	106.62
A11 – SA	11/01/93	120	802.8	28.71	35.74	96.34	96.27
A12 – SA	11/01/93	120	865.5	28.72	39.92	103.86	103.80
A13 – SA	11/01/93	120	935.6	28.72	44.60	112.27	112.21
A1 – SB	11/01/93	120	958.2	28.67	46.10	114.98	113.62
A2 – SB	11/01/93	120	949.1	28.67	45.50	113.89	112.54
A3 – SB	11/01/93	120	929.8	28.67	44.21	111.58	110.25
A7 – SB	11/01/93	120	889.0	28.67	41.49	106.68	105.42
A11 – SB	11/01/93	120	802.8	28.67	35.74	96.34	95.20
A12 – SB	11/01/93	120	865.5	28.67	39.92	103.86	102.63
A13 – SB	11/01/93	120	935.6	28.67	44.60	112.27	110.94
A1 – SA	11/02/93	120	958.2	28.74	46.10	114.98	110.24
A2 – SA	11/02/93	120	949.1	28.74	45.50	113.89	109.19
A3 – SA	11/02/93	120	929.8	28.74	44.21	111.58	106.97
A7 – SA	11/02/93	120	889.0	28.74	41.49	106.68	102.28
A11 – SA	11/02/93	120	802.8	28.74	35.74	96.34	92.36
A12 – SA	11/02/93	120	865.5	28.74	39.92	103.86	99.57
A13 – SA	11/02/93	120	935.6	28.74	44.60	112.27	107.64
A1 – SB	11/02/93	120	958.2	28.78	46.10	114.98	110.79
A2 – SB	11/02/93	120	949.1	28.78	45.50	113.89	109.74
A3 – SB	11/02/93	120	929.8	28.78	44.21	111.58	107.51
A7 – SB	11/02/93	120	889.0	28.78	41.49	106.68	102.79
A11 – SB	11/02/93	120	802.8	28.78	35.74	96.34	92.82
A12 – SB	11/02/93	120	865.5	28.78	39.92	103.86	100.07
A13 – SB	11/02/93	120	935.6	28.78	44.60	112.27	108.18
A1 – SA	11/04/93	120	958.2	28.33	46.10	114.98	105.94
A2 – SA	11/04/93	120	949.1	28.33	45.50	113.89	104.94
A3 – SA	11/04/93	120	929.8	28.33	44.21	111.58	102.80
A7 – SA	11/04/93	120	889.0	28.33	41.49	106.68	98.29
A11 – SA	11/04/93	120	802.8	28.33	35.74	96.34	88.76
A12 – SA	11/04/93	120	865.5	28.31	39.92	103.86	95.63
A13 – SA	11/04/93	120	935.6	28.33	44.60	112.27	103.45
A1 – SB	11/04/93	120	958.2	28.29	46.10	114.98	106.30
A2 – SB	11/04/93	120	949.1	28.29	45.50	113.89	105.29
A3 – SB	11/04/93	120	929.8	28.29	44.21	111.58	103.15
A7 – SB	11/04/93	120	889.0	28.29	41.49	106.68	98.63
A11 – SB	11/04/93	120	802.8	28.29	35.74	96.34	89.06
A12 – SB	11/04/93	120	865.5	28.29	39.92	103.86	96.02
A13 – SB	11/04/93	120	935.6	28.29	44.60	112.27	103.80

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
FLOW CALCULATIONS OF HYDROGEN SULFIDE SAMPLES
AT AMBIENT LOCATIONS

ENGINEERING–SCIENCE, INC.
FAIRFAX, VA

* data entry from field data sheets

* Site and Sampling Code	* Sampling Date Start	* Sampling Time (minutes)	* Flow Rate (cc/min)	* Ambient Pressure (in Hg)	* Ambient Temp. (°C)	Sample Volume (liters) Actual	Sample Volume (liters) Standard
A1 – SA	11/06/93	120	958.2	29.07	46.10	114.98	119.89
A2 – SA	11/06/93	120	949.1	29.07	45.50	113.89	118.75
A3 – SA	11/06/93	120	929.8	29.07	44.21	111.58	116.34
A7 – SA	11/06/93	120	889.0	29.07	41.49	106.68	111.23
A11 – SA	11/06/93	120	802.8	29.07	35.74	96.34	100.45
A12 – SA	11/06/93	120	865.5	29.07	39.92	103.86	108.29
A13 – SA	11/06/93	120	935.6	29.07	44.60	112.27	117.06
A1 – SB	11/06/93	120	958.2	28.98	46.10	114.98	118.08
A2 – SB	11/06/93	120	949.1	28.98	45.50	113.89	116.96
A3 – SB	11/06/93	120	929.8	28.98	44.21	111.58	114.58
A7 – SB	11/06/93	120	889.0	28.98	41.49	106.68	109.55
A11 – SB	11/06/93	120	802.8	28.98	35.74	96.34	98.93
A12 – SB	11/06/93	120	865.5	28.98	39.92	103.86	106.66
A13 – SB	11/06/93	120	935.6	28.98	44.60	112.27	115.29
A1 – SA	11/08/93	120	958.2	28.79	46.10	114.98	113.21
A2 – SA	11/08/93	120	949.1	28.79	45.50	113.89	112.14
A3 – SA	11/08/93	120	929.8	28.79	44.21	111.58	109.86
A7 – SA	11/08/93	120	889.0	28.79	41.49	106.68	105.04
A11 – SA	11/08/93	120	802.8	28.79	35.74	96.34	94.85
A12 – SA	11/08/93	120	865.5	28.79	39.92	103.86	102.26
A13 – SA	11/08/93	120	935.6	28.79	44.60	112.27	110.54
A1 – SB	11/08/93	120	958.2	28.77	46.10	114.98	113.13
A2 – SB	11/08/93	120	949.1	28.77	45.50	113.89	112.06
A3 – SB	11/08/93	120	929.8	28.77	44.21	111.58	109.78
A7 – SB	11/08/93	120	889.0	28.77	41.49	106.68	104.96
A11 – SB	11/08/93	120	802.8	28.77	35.74	96.34	94.79
A12 – SB	11/08/93	120	865.5	28.77	39.92	103.86	102.19
A13 – SB	11/08/93	120	935.6	28.77	44.60	112.27	110.47
A1 – SA	11/09/93	120	958.2	28.91	46.10	114.98	112.16
A2 – SA	11/09/93	120	949.1	28.91	45.50	113.89	111.10
A3 – SA	11/09/93	120	929.8	28.91	44.21	111.58	108.84
A7 – SA	11/09/93	122	889.0	28.91	42.48	108.46	105.80
A11 – SA	11/09/93	120	802.8	28.91	35.74	96.34	93.97
A12 – SA	11/09/93	124	865.5	28.91	41.85	107.32	104.69
A13 – SA	11/09/93	125	935.6	28.91	47.19	116.95	114.08
A1 – SB	11/09/93	120	958.2	28.91	46.10	114.98	111.93
A2 – SB	11/09/93	120	949.1	28.91	45.50	113.89	110.87
A3 – SB	11/09/93	120	929.8	28.91	44.21	111.58	108.61
A7 – SB	11/09/93	120	889.0	28.91	41.49	106.68	103.85
A11 – SB	11/09/93	120	802.8	28.91	35.74	96.34	93.78
A12 – SB	11/09/93	120	865.5	28.91	39.92	103.86	101.10
A13 – SB	11/09/93	120	935.6	28.91	44.60	112.27	109.29

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
FLOW CALCULATIONS OF SVOC SAMPLES
AT SOURCE LOCATIONS

ENGINEERING–SCIENCE, INC.
FAIRFAX, VA

* data entry from field data sheets

* Site and Sample Code	* Sampling Date	* Sampling Time (minutes)	* Flow Rate (cc/min)	* Ambient Pressure (in Hg)	* Ambient Temp. (°C)	Sample Volume (liters) Actual	Sample Volume (liters) Standard
S2–1 – X – Probe	09/22/93	67	1994	28.80	30.67	133.60	124.08
S2–1 – X – Flux	09/22/93	67	2012	28.80	30.67	134.80	125.20
S2–2 – X – Probe	09/22/93	70	2008	28.80	30.26	140.56	130.73
S2–2 – X – Flux	09/22/93	70	2001	28.80	30.26	140.07	130.27
S3 – X – Probe	09/22/93	70	2009	28.80	30.92	140.63	130.51
S3 – X – Flux	09/22/93	70	2028	28.80	30.92	141.96	131.74
S5–1 – X – Probe	09/22/93	70	2009	28.80	28.52	140.63	131.54
S5–1 – X – Flux	09/22/93	70	2028	28.80	28.52	141.96	132.79
S5–2 – X – Probe	09/22/93	70	2008	28.80	28.52	140.56	131.48
S5–2 – X – Flux	09/22/93	70	2001	28.80	28.52	140.07	131.02
S6–1 – X – Probe	09/22/93	70	2012	28.80	29.35	140.84	131.38
S8 – X – Probe	09/23/93	70	2012	28.92	24.24	140.84	134.19
S9 – X – Probe	09/23/93	53	1994	28.85	23.80	105.68	100.60
S9 – X – Flux	09/23/93	70	2008	28.94	25.70	140.56	133.36
S11–1 – X – Probe	09/23/93	70	2001	28.92	24.24	140.07	133.46
S12 – X – Probe	09/23/93	70	2012	28.85	24.25	140.84	133.86
S12 – X – Flux	09/23/93	70	2001	28.85	24.25	140.07	133.13
S19 – X – Probe	09/23/93	70	2028	28.85	23.80	141.96	135.13
S20–2 – X – Probe	09/23/93	70	1990	28.85	23.80	139.30	132.60
S21–2 – X – Probe	09/23/93	70	2028	28.92	24.86	141.96	134.98
S22 – X – Probe	09/23/93	70	1990	28.92	24.86	139.30	132.45
S23 – X – Probe	09/23/93	70	1994	28.92	24.86	139.58	132.72
S2–1 – X – Probe	09/24/93	70	2008	28.90	20.68	140.56	135.45
S2–1 – X – Flux	09/24/93	70	2009	28.90	20.68	140.63	135.52
S2–2 – X – Probe	09/24/93	70	2028	28.90	20.00	141.96	137.12
S2–2 – X – Flux	09/24/93	70	2012	28.90	20.00	140.84	136.04
S3 – X – Probe	09/24/93	70	1994	28.90	20.68	139.58	134.51
S3 – X – Flux	09/24/93	70	2001	28.90	20.68	140.07	134.98
S5–1 – X – Probe	09/24/93	70	2012	28.88	22.17	140.84	134.95
S5–1 – X – Flux	09/24/93	70	2004	28.88	22.17	140.28	134.41
S5–2 – X – Probe	09/24/93	70	1938	28.88	22.17	135.66	129.98
S5–2 – X – Flux	09/24/93	70	1990	28.88	22.17	139.30	133.47
S13–1 – X – Probe	09/25/93	70	2012	28.79	16.21	140.84	137.29
S16 – X – Probe	09/25/93	70	2028	28.79	15.98	141.96	138.50
S2–1 – X – Flux	09/27/93	70	2012	29.10	16.51	140.84	138.63

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
FLOW CALCULATIONS OF SVOC SAMPLES
AT SOURCE LOCATIONS

ENGINEERING–SCIENCE, INC.
FAIRFAX, VA

* data entry from field data sheets

* Site and Sample Code	* Sampling Date	* Sampling Time (minutes)	* Flow Rate (cc/min)	* Ambient Pressure (in Hg)	* Ambient Temp. (°C)	Sample Volume (liters) Actual	Sample Volume (liters) Standard
S2–2 – X – Flux	09/27/93	70	2012	29.10	16.51	140.84	138.63
S3 – X – Flux	09/27/93	70	1994	29.10	17.75	139.58	136.80
S5–1 – X – Flux	09/27/93	70	2008	29.10	19.74	140.56	136.83
S5–2 – X – Flux	09/27/93	70	2012	29.10	20.73	140.84	136.64
S6–1 – X – Probe	09/27/93	70	1990	29.00	23.94	139.30	133.23
S8 – X – Probe	09/27/93	70	2001	28.86	25.49	140.07	132.62
S9 – X – Probe	09/27/93	70	2001	29.10	22.45	140.07	135.10
S9 – X – Flux	09/27/93	70	2028	29.10	22.45	141.96	136.92
S11–1 – X – Probe	09/27/93	70	2004	28.86	25.73	140.28	132.72
S12 – X – Probe	09/27/93	70	2012	28.86	24.92	140.84	133.61
S12 – X – Flux	09/27/93	70	2012	28.86	24.92	140.84	133.61
S13–1 – X – Probe	09/27/93	70	2008	28.86	25.49	140.56	133.09
S16 – X – Probe	09/28/93	70	1994	28.92	19.02	139.58	135.37
S19 – X – Probe	09/28/93	70	2008	28.92	21.66	140.56	135.10
S21–2 – X – Probe	09/28/93	70	2012	28.92	21.66	140.84	135.37
S22 – X – Probe	09/28/93	70	1990	28.92	21.66	139.30	133.89
S23 – X – Probe	09/28/93	70	2004	28.92	20.29	140.28	135.46
S8 – X – Probe	09/29/93	70	2012	29.35	21.53	140.84	137.44
S9 – X – Flux	09/29/93	70	2028	29.35	22.11	141.96	138.26
S11–1 – X – Probe	09/29/93	70	2008	29.35	21.53	140.56	137.17
S12 – X – Flux	09/29/93	70	2009	29.35	22.11	140.63	136.96
S13–1 – X – Probe	09/29/93	70	1994	29.35	21.53	139.58	136.21
S16 – X – Probe	09/29/93	70	2028	28.80	15.40	141.96	138.82
S19 – X – Probe	09/29/93	70	1990	28.80	16.15	139.30	135.87
S20–2 – X – Probe	09/29/93	70	2012	28.80	16.15	140.84	137.37
S20–2 – X – Probe	09/29/93	70	1940	28.80	16.15	135.80	132.45
S21–2 – X – Probe	09/29/93	70	2004	28.80	16.15	140.28	136.82
S22 – X – Probe	09/29/93	70	2008	28.80	16.15	140.56	137.10
S23 – X – Probe	09/29/93	70	1994	28.80	16.15	139.58	136.14
S6–1 – X – Probe	09/30/93	70	2012	28.75	19.20	140.84	135.70
S2–2 – X – Flux	10/01/93	70	1950	28.36	22.67	136.50	128.22
S3 – X – Flux	10/01/93	70	1936	28.36	22.67	135.52	127.29
S5–2 – X – Flux	10/01/93	70	1943	28.38	24.47	136.01	127.07
S9 – X – Flux	10/01/93	70	1940	28.39	26.06	135.80	126.25
S2–2 – X – Flux	10/04/93	70	1950	28.64	15.36	136.50	132.76

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
FLOW CALCULATIONS OF SVOC SAMPLES
AT SOURCE LOCATIONS

ENGINEERING–SCIENCE, INC.
FAIRFAX, VA

* data entry from field data sheets

* Site and Sample Code	* Sampling Date	* Sampling Time (minutes)	* Flow Rate (cc/min)	* Ambient Pressure (in Hg)	* Ambient Temp. (°C)	Sample Volume (liters) Actual	Sample Volume (liters) Standard
S3 – X – Flux	10/04/93	70	1936	28.64	16.1	135.52	131.47
S5–2 – X – Flux	10/04/93	70	1943	28.65	17.79	136.01	131.22
S9 – X – Flux	10/04/93	70	1940	28.62	19.91	135.80	129.94
S2–2 – X – Flux	10/06/93	70	2011	29.88	16.2	140.77	142.43
S3 – X – Flux	10/06/93	70	2001	29.88	17.28	140.07	141.19
S5–2 – X – Flux	10/06/93	70	1990	29.88	19.53	139.30	139.34
S9 – X – Flux	10/06/93	70	1978	29.88	22.06	138.46	137.31
S2–2 – X – Flux	10/08/93	70	2011	29.58	19.49	140.77	139.41
S3 – X – Flux	10/08/93	70	2001	29.59	19.49	140.07	138.77
S5–2 – X – Flux	10/08/93	70	1990	29.6	20.49	139.30	137.58
S9 – X – Flux	10/08/93	70	1978	29.59	21.87	138.46	136.06
S2–2 – X – Flux	10/11/93	70	2011	29.91	16.02	140.77	142.66
S3 – X – Flux	10/11/93	70	2001	29.89	16.02	140.07	141.85
S5–2 – X – Flux	10/11/93	70	1990	29.89	17.73	139.30	140.24
S9 – X – Flux	10/11/93	70	1978	29.89	18.5	138.46	139.03
S2–2 – X – Flux	10/13/93	70	2011	29.88	16.77	140.77	142.15
S3 – X – Flux	10/13/93	70	2001	29.86	18.72	140.07	140.40
S5–2 – X – Flux	10/13/93	70	1990	29.86	20.55	139.30	138.76
S9 – X – Flux	10/13/93	70	1978	29.86	20.55	138.46	137.92
S2–2 – X – Flux	10/15/93	70	2011	28.5	16.13	140.77	135.88
S3 – X – Flux	10/15/93	70	2001	28.47	16.13	140.07	135.06
S5–2 – X – Flux	10/15/93	70	1990	28.46	16.13	139.30	134.27
S9 – X – Flux	10/15/93	70	1978	28.48	16.71	138.46	133.29
S2–2 – X – Flux	10/18/93	70	2011	28.44	15.1	140.77	136.08
S3 – X – Flux	10/18/93	70	2001	28.43	15.45	140.07	135.19
S5–2 – X – Flux	10/18/93	70	1990	28.44	15.45	139.30	134.49
S9 – X – Flux	10/18/93	70	1978	28.43	17.78	138.46	132.57
S2–2 – X – Flux	10/20/93	70	2011	28.65	12.9	140.77	138.14
S3 – X – Flux	10/20/93	70	2001	28.65	12.9	140.07	137.45
S5–2 – X – Flux	10/20/93	70	1990	28.65	13.35	139.30	136.48
S9 – X – Flux	10/20/93	70	1978	28.62	14.32	138.46	135.06
S2–2 – X – Flux	10/25/93	70	2011	28.59	9.76	140.77	139.38
S3 – X – Flux	10/25/93	70	2001	28.62	11.61	140.07	137.93
S5–2 – X – Flux	10/25/93	70	1990	28.58	14.17	139.30	135.76
S9 – X – Flux	10/25/93	70	1978	28.56	16.65	138.46	133.69

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
FLOW CALCULATIONS OF SVOC SAMPLES
AT SOURCE LOCATIONS

ENGINEERING–SCIENCE, INC.
FAIRFAX, VA

* data entry from field data sheets

* Site and Sample Code	* Sampling Date	* Sampling Time (minutes)	* Flow Rate (cc/min)	* Ambient Pressure (in Hg)	* Ambient Temp. (°C)	Sample Volume (liters) Actual	Sample Volume (liters) Standard
S2–2 – X – Flux	10/27/93	70	2011	28.99	4.97	140.77	143.76
S3 – X – Flux	10/27/93	70	2001	29	4.97	140.07	143.09
S5–2 – X – Flux	10/27/93	70	1990	28.96	6.37	139.30	141.40
S9 – X – Flux	10/27/93	70	1978	28.95	7.49	138.46	139.94
S2–2 – X – Flux	10/29/93	70	2011	28.67	4.4	140.77	142.46
S3 – X – Flux	10/29/93	70	2001	28.66	3.01	140.07	142.42
S5–2 – X – Flux	10/29/93	70	1990	28.49	3.01	139.30	140.80
S9 – X – Flux	10/29/93	70	1978	28.55	2.79	138.46	140.35
S2–2 – X – Flux	11/01/93	70	2011	28.71	3.81	140.77	142.97
S3 – X – Flux	11/01/93	70	2001	28.74	3.81	140.07	142.40
S5–2 – X – Flux	11/01/93	70	1990	28.71	5.35	139.30	140.69
S9 – X – Flux	11/01/93	70	1978	28.74	8.89	138.46	138.23
S2–1 – X – Flux	11/02/93	70	2011	28.82	9.5	140.77	140.63
S3 – X – Flux	11/02/93	70	2001	28.82	8.94	140.07	140.21
S5–2 – X – Flux	11/02/93	70	1990	28.82	10.59	139.30	138.62
S9 – X – Flux	11/02/93	70	1978	28.83	11.64	138.46	137.33
S2–1 – X – Flux	11/04/93	70	2011	28.34	12.2	140.77	136.98
S3 – X – Flux	11/04/93	70	2001	28.34	12.2	140.07	136.30
S5–2 – X – Flux	11/04/93	70	1990	28.31	13.63	139.30	134.73
S9 – X – Flux	11/04/93	70	1978	28.32	15.99	138.46	132.87
S2–1 – X – Flux	11/06/93	70	2011	29.01	–4.18	140.77	148.75
S3 – X – Flux	11/06/93	70	2001	29.12	–4.33	140.07	148.65
S5–2 – X – Flux	11/06/93	70	1990	29.07	–3.55	139.30	147.16
S9 – X – Flux	11/06/93	70	1978	29.06	–3.11	138.46	145.98
S2–1 – X – Flux	11/08/93	70	2011	28.79	1.75	140.77	144.44
S3 – X – Flux	11/08/93	70	2001	28.79	1.75	140.07	143.72
S5–2 – X – Flux	11/08/93	70	1990	28.82	3.78	139.30	142.03
S9 – X – Flux	11/08/93	70	1978	28.81	6.8	138.46	139.60

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
PS–1 SAMPLER FLOW CALCULATION WORKSHEET

ENGINEERING–SCIENCE, INC.
FAIRFAX, VA

* data entry from field data sheets

* Start Date	* Sampler S/N	* Initial Temp. °C	* Final Temp. °C	* Initial Pressure in. Hg.	* Final Pressure in. Hg.	* Initial Mag. in. H_2O	* Final Mag. in. H_2O	Avg. Temp. °C	Avg. Temp. Kelvin	Avg. Pressure in. Hg.	Avg. Pressure mm. Hg.	Avg. Mag. in. H_2O	Std. Mag. in. H_2O	Sampler Slope	Sampler Intercept	Std. Flow m^3/min.	* Time min.	Total Std. Volume m^3
09/22/93	PS–A1	28.00	25.00	28.80	29.01	43.00	40.50	26.50	299.50	28.91	734.19	41.75	40.13	0.0026	0.10926	0.2136	1385	295.78
09/22/93	PS–A2	30.00	26.00	28.80	29.00	43.00	41.50	28.00	301.00	28.90	734.06	42.25	40.40	0.0027	0.10489	0.2144	1375	294.83
09/22/93	PS–A3	30.00	26.00	28.80	29.01	44.00	41.00	28.00	301.00	28.91	734.19	42.50	40.65	0.0026	0.10546	0.2120	1375	291.50
09/22/93	PS–A4	30.00	29.70	28.80	28.99	44.00	42.00	29.85	302.85	28.90	733.93	43.00	40.86	0.0026	0.10624	0.2122	1443	306.19
09/22/93	PS–A5	30.00	32.10	28.80	29.97	48.00	47.50	31.05	304.05	29.39	746.38	47.75	45.96	0.0026	0.09838	0.2160	1447	312.54
09/22/93	PS–A6	30.00	30.90	28.80	29.70	46.00	46.00	30.45	303.45	29.25	742.95	46.00	44.16	0.0023	0.11236	0.2153	1433	308.52
09/22/93	PS–A7	31.00	30.00	28.80	28.90	44.00	44.00	30.50	303.50	28.85	732.79	44.00	41.66	0.0028	0.09579	0.2138	1427	305.10
09/22/93	PS–A8	31.00	33.30	28.80	28.99	46.00	46.00	32.15	305.15	28.90	733.93	46.00	43.38	0.0026	0.10133	0.2124	1428	303.35
09/22/93	PS–A9	28.00	24.00	28.80	29.01	53.00	53.50	26.00	299.00	28.91	734.19	53.25	51.27	0.0025	0.08841	0.2155	1396	300.78
09/22/93	PS–A10	32.00	33.80	28.80	28.85	41.00	41.00	32.90	305.90	28.83	732.16	41.00	38.48	0.0025	0.11900	0.2147	1462	313.94
09/22/93	PS–A11	28.00	27.00	28.80	29.00	43.50	45.50	27.50	300.50	28.90	734.06	44.50	42.62	0.0027	0.10468	0.2176	1380	300.34
09/22/93	PS–A12	33.00	33.50	28.80	28.85	47.00	45.00	33.25	306.25	28.83	732.16	46.00	43.12	0.0023	0.11495	0.2121	1423	301.88
09/22/93	PS–A13	33.00	31.80	28.80	28.84	47.00	46.00	32.40	305.40	28.82	732.03	46.50	43.70	0.0026	0.09671	0.2125	1424	302.58
09/22/93	PS–P1	30.00	28.50	28.81	28.92	45.00	44.00	29.25	302.25	28.87	733.17	44.50	42.33	0.0027	0.09867	0.2138	1235	264.08
09/22/93	PS–P2	32.00	30.70	28.91	28.85	44.00	42.00	31.35	304.35	28.88	733.55	43.00	40.64	0.0028	0.09892	0.2118	1273	269.64
09/22/93	PS–P3	33.00	32.70	28.81	28.90	44.00	43.00	32.85	305.85	28.86	732.92	43.50	40.87	0.0025	0.11206	0.2139	1288	275.47
09/22/93	PS–P4	32.00	31.90	28.83	28.94	44.00	42.00	31.95	304.95	28.89	733.68	43.00	40.56	0.0027	0.10232	0.2099	1346	282.58
09/22/93	PS–P5	32.00	31.00	28.81	28.95	38.00	37.00	31.50	304.50	28.88	733.55	37.50	35.42	0.0026	0.12044	0.2128	1328	282.54
09/22/93	PS–P6	32.00	31.10	28.81	28.95	42.00	70.00	31.55	304.55	28.88	733.55	56.00	52.89	0.0028	0.10175	0.2511	1324	332.40
09/22/93	PS–P7	33.00	31.80	28.80	28.92	44.00	43.00	32.40	305.40	28.86	733.04	43.50	40.94	0.0026	0.10628	0.2121	1324	280.89
09/22/93	PS–P8	28.00	28.30	28.80	28.92	45.00	45.00	28.15	301.15	28.86	733.04	45.00	42.95	0.0028	0.09356	0.2144	1275	273.33
09/22/93	PS–P9	32.00	31.40	28.81	28.90	40.00	36.00	31.70	304.70	28.86	732.92	38.00	35.84	0.0024	0.12483	0.2101	1305	274.17
09/22/93	PS–P10	28.00	28.10	28.80	28.92	48.00	48.00	28.05	301.05	28.86	733.04	48.00	45.83	0.0026	0.09706	0.2141	1277	273.41

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PS–1 SAMPLER FLOW CALCULATION WORKSHEET

ENGINEERING–SCIENCE, INC.
FAIRFAX, VA

* data entry from field data sheets

* Start Date	* Sampler S/N	* Initial Temp. °C	* Final Temp. °C	* Initial Pressure in. Hg.	* Final Pressure in. Hg.	* Initial Mag. in. H_2O	* Final Mag. in. H_2O	Avg. Temp. °C	Avg. Temp. Kelvin	Avg. Pressure in. Hg.	Avg. Pressure mm. Hg.	Avg. Mag. in. H_2O	Std. Mag. in. H_2O	Sampler Slope	Sampler Intercept	Std. Flow m^3/min.	* Time min.	Total Std. Volume m^3
09/24/93	PS–A1	16.55	17.10	28.99	28.83	43.00	42.00	16.83	289.83	28.91	734.31	42.50	42.22	0.0026	0.10926	0.2190	1410	308.79
09/24/93	PS–A2	16.55	17.00	29.06	28.86	42.00	40.00	16.78	289.78	28.96	735.58	41.00	40.81	0.0027	0.10489	0.2155	1409	303.68
09/24/93	PS–A3	16.75	16.70	29.02	28.88	44.00	66.00	16.73	289.73	28.95	735.33	55.00	54.73	0.0026	0.10546	0.2489	1408	350.48
09/24/93	PS–A4	16.75	16.40	29.03	28.92	44.00	41.00	16.58	289.58	28.98	735.97	42.50	42.35	0.0026	0.10624	0.2161	1410	304.65
09/24/93	PS–A5	16.85	16.40	29.04	28.91	48.00	48.00	16.63	289.63	28.98	735.97	48.00	47.83	0.0026	0.09838	0.2208	1410	311.28
09/24/93	PS–A6	16.90	17.00	29.04	28.91	46.00	44.00	16.95	289.95	28.98	735.97	45.00	44.79	0.0023	0.11236	0.2168	1411	305.85
09/24/93	PS–A7	17.00	16.10	29.03	28.80	44.00	43.00	16.55	289.55	28.92	734.44	43.50	43.26	0.0028	0.09579	0.2184	1468	320.55
09/24/93	PS–A8	17.00	16.60	29.03	28.80	46.00	45.00	16.80	289.80	28.92	734.44	45.50	45.21	0.0026	0.10133	0.2171	1465	318.09
09/24/93	PS–A9	17.25	17.40	29.00	28.80	53.00	50.00	17.33	290.33	28.90	734.06	51.50	51.06	0.0025	0.08841	0.2149	1464	314.66
09/24/93	PS–A10	17.50	18.00	29.00	28.78	41.00	42.00	17.75	290.75	28.89	733.81	41.50	41.07	0.0025	0.11900	0.2212	1463	323.59
09/24/93	PS–A11	16.60	16.60	28.99	28.83	44.00	43.00	16.60	289.60	28.91	734.31	43.50	43.25	0.0027	0.10468	0.2193	1410	309.20
09/24/93	PS–A12	17.98	20.30	29.00	28.79	47.00	45.00	19.14	292.14	28.90	733.93	46.00	45.31	0.0023	0.11495	0.2171	1488	323.03
09/24/93	PS–A13	18.25	19.90	29.00	28.72	47.00	46.00	19.08	292.08	28.86	733.04	46.50	45.76	0.0026	0.09671	0.2179	1488	324.28
09/24/93	PS–P1	18.50	21.90	28.97	28.78	45.00	44.00	20.20	293.20	28.88	733.43	44.50	43.65	0.0027	0.09867	0.2174	1482	322.23
09/24/93	PS–P2	19.00	25.60	28.98	28.73	44.00	48.00	22.30	295.30	28.86	732.92	46.00	44.77	0.0028	0.09892	0.2233	1501	335.15
09/24/93	PS–P3	19.20	24.70	28.70	28.73	43.00	43.00	21.95	294.95	28.72	729.36	43.00	41.69	0.0025	0.11206	0.2159	1499	323.66
09/24/93	PS–P4	19.50	25.00	28.92	28.72	44.00	40.00	22.25	295.25	28.82	732.03	42.00	40.83	0.0027	0.10232	0.2106	1484	312.60
09/24/93	PS–P5	20.00	26.30	28.92	28.73	38.00	38.00	23.15	296.15	28.83	732.16	38.00	36.84	0.0026	0.12044	0.2164	1480	320.33
09/24/93	PS–P6	20.00	24.00	28.92	28.71	42.00	42.00	22.00	295.00	28.82	731.90	42.00	40.86	0.0028	0.10175	0.2171	1480	321.30
09/24/93	PS–P7	20.50	26.50	28.93	28.70	44.00	42.00	23.50	296.50	28.82	731.90	43.00	41.62	0.0026	0.10628	0.2139	1479	316.37
09/24/93	PS–P8	20.80	29.40	28.90	28.70	45.00	45.00	25.10	298.10	28.80	731.52	45.00	43.30	0.0028	0.09356	0.2154	1477	318.08
09/24/93	PS–P9	20.80	27.20	28.89	28.70	40.00	42.00	24.00	297.00	28.80	731.39	41.00	39.59	0.0024	0.12483	0.2190	1464	320.63
09/24/93	PS–P10	20.90	25.40	28.88	28.70	48.00	49.00	23.15	296.15	28.79	731.27	48.50	46.96	0.0026	0.09706	0.2170	1470	318.97

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* Start Date	* Sampler S/N	* Initial Temp. °C	* Final Temp. °C	* Initial Pressure in. Hg.	* Final Pressure in. Hg.	* Initial Mag. in. H_2O	* Final Mag. in. H_2O	Avg. Temp. °C	Avg. Temp. Kelvin	Avg. Pressure in. Hg.	Avg. Pressure mm. Hg.	Avg. Mag. in. H_2O	Std. Mag. in. H_2O	Sampler Slope	Sampler Intercept	Std. Flow m^3/min.	* Time min.	Total Std. Volume m^3
09/27/93	PS–A1	25.40	22.00	29.10	28.92	43.00	40.00	23.70	296.70	29.01	736.85	41.50	40.41	0.0026	0.10926	0.2143	1373	294.23
09/27/93	PS–A2	23.30	22.80	29.10	28.92	42.00	39.00	23.05	296.05	29.01	736.85	40.50	39.53	0.0027	0.10489	0.2120	1370	290.50
09/27/93	PS–A3	22.10	23.50	29.10	28.92	44.00	43.00	22.80	295.80	29.01	736.85	43.50	42.49	0.0026	0.10546	0.2168	1371	297.27
09/27/93	PS–A4	21.70	22.80	29.10	28.92	44.00	42.00	22.25	295.25	29.01	736.85	43.00	42.08	0.0026	0.10624	0.2154	1369	294.82
09/27/93	PS–A5	24.50	22.10	29.10	28.92	48.00	48.00	23.30	296.30	29.01	736.85	48.00	46.81	0.0026	0.09838	0.2182	1369	298.65
09/27/93	PS–A6	25.00	23.90	29.10	28.92	46.00	44.00	24.45	297.45	29.01	736.85	45.00	43.71	0.0023	0.11236	0.2142	1367	292.88
09/27/93	PS–A7	23.40	24.40	29.10	28.92	44.00	42.00	23.90	296.90	29.01	736.85	43.00	41.84	0.0028	0.09579	0.2143	1371	293.86
09/27/93	PS–A8	26.10	24.40	29.10	28.92	46.00	46.00	25.25	298.25	29.01	736.85	46.00	44.56	0.0026	0.10133	0.2155	1372	295.60
09/27/93	PS–A9	25.90	24.00	29.05	28.92	53.00	49.00	24.95	297.95	28.99	736.22	51.00	49.41	0.0025	0.08841	0.2109	1364	287.61
09/27/93	PS–A10	25.90	24.00	29.03	28.92	41.00	40.00	24.95	297.95	28.98	735.97	40.50	39.23	0.0025	0.11900	0.2166	1363	295.22
09/27/93	PS–A11	24.40	23.10	29.10	28.92	44.00	42.00	23.75	296.75	29.01	736.85	43.00	41.87	0.0027	0.10468	0.2156	1373	296.06
09/27/93	PS–A12	25.20	26.00	29.00	28.92	47.00	46.00	25.60	298.60	28.96	735.58	46.50	44.92	0.0023	0.11495	0.2162	1349	291.64
09/27/93	PS–A13	26.30	27.00	29.00	28.92	47.00	47.00	26.65	299.65	28.96	735.58	47.00	45.24	0.0026	0.09671	0.2166	1106	239.51
09/27/93	PS–P1	27.90	28.10	29.00	28.92	45.00	45.00	28.00	301.00	28.96	735.58	45.00	43.12	0.0027	0.09867	0.2160	1409	304.34
09/27/93	PS–P2	27.30	27.50	29.00	28.92	44.00	44.00	27.40	300.40	28.96	735.58	44.00	42.25	0.0028	0.09892	0.2163	1407	304.31
09/27/93	PS–P3	25.80	27.30	29.00	28.92	44.00	44.00	26.55	299.55	28.96	735.58	44.00	42.37	0.0025	0.11206	0.2176	1409	306.59
09/27/93	PS–P4	26.60	29.30	29.00	28.92	44.00	44.00	27.95	300.95	28.96	735.58	44.00	42.17	0.0027	0.10232	0.2142	1406	301.16
09/27/93	PS–P5	26.10	27.50	29.00	28.92	38.00	38.00	26.80	299.80	28.96	735.58	38.00	36.56	0.0026	0.12044	0.2157	1406	303.29
09/27/93	PS–P6	28.10	27.60	29.00	28.92	42.00	42.00	27.85	300.85	28.96	735.58	42.00	40.27	0.0028	0.10175	0.2154	1409	303.53
09/27/93	PS–P7	27.10	27.10	28.96	28.92	44.00	44.00	27.10	300.10	28.94	735.08	44.00	42.26	0.0026	0.10628	0.2156	1406	303.08
09/27/93	PS–P8	26.20	27.50	28.96	28.92	45.00	45.00	26.85	299.85	28.94	735.08	45.00	43.26	0.0028	0.09356	0.2152	1410	303.48
09/27/93	PS–P9	27.80	27.90	28.94	28.92	40.00	40.00	27.85	300.85	28.93	734.82	40.00	38.31	0.0024	0.12483	0.2160	1409	304.29
09/27/93	PS–P10	33.60	27.80	28.86	28.92	48.00	48.00	30.70	303.70	28.89	733.81	48.00	45.48	0.0026	0.09706	0.2132	979	208.72

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* Start Date	* Sampler S/N	* Initial Temp. °C	* Final Temp. °C	* Initial Pressure in. Hg.	* Final Pressure in. Hg.	* Initial Mag. in. H_2O	* Final Mag. in. H_2O	Avg. Temp. °C	Avg. Temp. Kelvin	Avg. Pressure in. Hg.	Avg. Pressure mm. Hg.	Avg. Mag. in. H_2O	Std. Mag. in. H_2O	Sampler Slope	Sampler Intercept	Std. Flow m^3/min.	* Time min.	Total Std. Volume m^3
09/29/93	PS–A1	21.80	20.30	28.80	28.65	43.00	41.00	21.05	294.05	28.73	729.62	42.00	40.86	0.0026	0.10926	0.2155	1382	297.77
09/29/93	PS–A2	20.10	20.30	28.82	28.64	42.00	40.00	20.20	293.20	28.73	729.74	41.00	40.01	0.0027	0.10489	0.2134	1383	295.09
09/29/93	PS–A3	20.40	21.70	28.83	28.65	44.00	47.00	21.05	294.05	28.74	730.00	45.50	44.29	0.0026	0.10546	0.2215	1383	306.40
09/29/93	PS–A4	19.10	19.20	28.83	28.66	44.00	44.00	19.15	292.15	28.75	730.12	44.00	43.12	0.0026	0.10624	0.2180	1381	301.12
09/29/93	PS–A5	20.20	20.10	28.85	28.66	48.00	46.00	20.15	293.15	28.76	730.38	47.00	45.92	0.0026	0.09838	0.2159	1382	298.34
09/29/93	PS–A6	20.40	22.30	28.84	28.65	46.00	45.00	21.35	294.35	28.75	730.12	45.50	44.25	0.0023	0.11236	0.2155	1380	297.41
09/29/93	PS–A7	21.00	22.80	28.84	28.66	44.00	45.00	21.90	294.90	28.75	730.25	44.50	43.21	0.0028	0.09579	0.2182	1378	300.68
09/29/93	PS–A8	20.80	20.30	28.83	28.64	46.00	46.00	20.55	293.55	28.74	729.87	46.00	44.85	0.0026	0.10133	0.2162	1197	258.77
09/29/93	PS–A9	20.70	23.20	30.12	28.63	53.00	54.00	21.95	294.95	29.38	746.13	53.50	53.07	0.0025	0.08841	0.2199	1412	310.52
09/29/93	PS–A10	21.70	24.40	30.13	28.62	41.00	40.00	23.05	296.05	29.38	746.13	40.50	40.02	0.0025	0.11900	0.2186	1411	308.41
09/29/93	PS–A11	20.40	18.70	28.80	28.64	44.00	44.00	19.55	292.55	28.72	729.49	44.00	43.02	0.0027	0.10468	0.2187	1382	302.23
09/29/93	PS–A12																	
09/29/93	PS–A13																	
09/29/93	PS–P1	21.80	23.50	30.13	28.63	45.00	45.00	22.65	295.65	29.38	746.25	45.00	44.54	0.0027	0.09867	0.2199	1409	309.77
09/29/93	PS–P2	22.10	25.90	30.14	28.62	44.00	41.00	24.00	297.00	29.38	746.25	42.50	41.87	0.0028	0.09892	0.2152	1411	303.71
09/29/93	PS–P3	21.20	23.20	30.14	28.63	44.00	45.00	22.20	295.20	29.39	746.38	44.50	44.12	0.0025	0.11206	0.2220	1408	312.52
09/29/93	PS–P4	22.30	25.70	30.14	28.62	44.00	39.00	24.00	297.00	29.38	746.25	41.50	40.89	0.0027	0.10232	0.2108	1410	297.22
09/29/93	PS–P5	21.50	24.60	30.13	28.62	38.00	37.00	23.05	296.05	29.38	746.13	37.50	37.06	0.0026	0.12044	0.2170	1712	371.53
09/29/93	PS–P6	22.70	24.30	30.15	28.62	42.00	42.00	23.50	296.50	29.39	746.38	42.00	41.46	0.0028	0.10175	0.2188	1413	309.14
09/29/93	PS–P7	22.30	24.60	30.13	28.61	44.00	44.00	23.45	296.45	29.37	746.00	44.00	43.42	0.0026	0.10628	0.2185	1412	308.59
09/29/93	PS–P8	22.60	27.60	30.13	28.61	45.00	42.00	25.10	298.10	29.37	746.00	43.50	42.68	0.0028	0.09356	0.2136	1411	301.43
09/29/93	PS–P9	23.70	26.10	30.12	28.60	40.00	40.00	24.90	297.90	29.36	745.74	40.00	39.26	0.0024	0.12483	0.2182	1411	307.93
09/29/93	PS–P10	23.00	26.20	30.12	28.58	48.00	47.00	24.60	297.60	29.35	745.49	47.50	46.66	0.0026	0.09706	0.2162	1406	304.00

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
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10/01/93	PS–A1	25.90	15.80	28.33	28.60	43.00	44.00	20.85	293.85	28.47	723.01	43.50	41.97	0.0026	0.10926	0.2183	1412	308.29
10/01/93	PS–A2	24.60	17.20	28.34	28.64	42.00	43.00	20.90	293.90	28.49	723.65	42.50	41.03	0.0027	0.10489	0.2161	1412	305.18
10/01/93	PS–A3	25.70	17.20	28.34	28.64	44.00	44.00	21.45	294.45	28.49	723.65	44.00	42.40	0.0026	0.10546	0.2166	1413	306.05
10/01/93	PS–A4	21.80	16.60	28.35	28.65	44.00	45.00	19.20	292.20	28.50	723.90	44.50	43.23	0.0026	0.10624	0.2183	1408	307.41
10/01/93	PS–A5	25.50	16.50	28.36	28.65	48.00	50.00	21.00	294.00	28.51	724.03	49.00	47.32	0.0026	0.09838	0.2195	1406	308.56
10/01/93	PS–A6	28.70	17.20	28.35	28.65	46.00	45.00	22.95	295.95	28.50	723.90	45.50	43.64	0.0023	0.11236	0.2141	1405	300.79
10/01/93	PS–A7	27.30	16.20	28.35	28.65	44.00	45.00	21.75	294.75	28.50	723.90	44.50	42.85	0.0028	0.09579	0.2172	1401	304.29
10/01/93	PS–A8	27.60	16.80	28.36	28.64	46.00	47.00	22.20	295.20	28.50	723.90	46.50	44.71	0.0026	0.10133	0.2158	1402	302.60
10/01/93	PS–A9	27.40	18.20	28.35	28.64	53.00	53.00	22.80	295.80	28.50	723.77	53.00	50.85	0.0025	0.08841	0.2144	1401	300.40
10/01/93	PS–A10	25.80	17.10	28.35	28.64	41.00	43.00	21.45	294.45	28.50	723.77	42.00	40.48	0.0025	0.11900	0.2197	1402	308.04
10/01/93	PS–A11	24.30	16.30	28.34	28.62	44.00	48.00	20.30	293.30	28.48	723.39	46.00	44.49	0.0027	0.10468	0.2226	1412	314.27
10/01/93	PS–A12	26.10	18.60	28.37	28.62	47.00	50.00	22.35	295.35	28.50	723.77	48.50	46.60	0.0023	0.11495	0.2200	1394	306.67
10/01/93	PS–A13	27.60	19.30	28.38	28.62	47.00	46.00	23.45	296.45	28.50	723.90	46.50	44.52	0.0026	0.09671	0.2147	1389	298.15
10/01/93	PS–P1	27.60	19.80	28.41	28.64	45.00	47.00	23.70	296.70	28.53	724.54	46.00	44.05	0.0027	0.09867	0.2185	1385	302.64
10/01/93	PS–P2	27.60	17.70	28.39	28.65	44.00	41.00	22.65	295.65	28.52	724.41	42.50	40.83	0.0028	0.09892	0.2124	1384	293.90
10/01/93	PS–P3	28.70	18.50	28.39	28.65	44.00	44.00	23.60	296.60	28.52	724.41	44.00	42.14	0.0025	0.11206	0.2170	1382	299.93
10/01/93	PS–P4	28.90	18.50	28.40	28.65	44.00	40.00	23.70	296.70	28.53	724.54	42.00	40.22	0.0027	0.10232	0.2090	1379	288.23
10/01/93	PS–P5	28.20	18.50	28.41	28.66	38.00	40.00	23.35	296.35	28.54	724.79	39.00	37.40	0.0026	0.12044	0.2179	1366	297.66
10/01/93	PS–P6	31.70	19.90	28.38	28.67	42.00	44.00	25.80	298.80	28.53	724.54	43.00	40.88	0.0028	0.10175	0.2172	1359	295.13
10/01/93	PS–P7	32.90	19.80	28.40	28.66	44.00	44.00	26.35	299.35	28.53	724.66	44.00	41.76	0.0026	0.10628	0.2143	1355	290.35
10/01/93	PS–P8	30.50	21.70	28.39	28.65	45.00	45.00	26.10	299.10	28.52	724.41	45.00	42.73	0.0028	0.09356	0.2138	1348	288.16
10/01/93	PS–P9	32.20	21.80	28.30	28.64	40.00	42.00	27.00	300.00	28.47	723.14	41.00	38.75	0.0024	0.12483	0.2170	1343	291.45
10/01/93	PS–P10	27.60	21.30	28.35	28.64	48.00	48.00	24.45	297.45	28.50	723.77	48.00	45.80	0.0026	0.09706	0.2140	1341	287.00

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* data entry from field data sheets

* Start Date	* Sampler S/N	* Initial Temp. °C	* Final Temp. °C	* Initial Pressure in. Hg.	* Final Pressure in. Hg.	* Initial Mag. in. H_2O	* Final Mag. in. H_2O	Avg. Temp. °C	Avg. Temp. Kelvin	Avg. Pressure in. Hg.	Avg. Pressure mm. Hg.	Avg. Mag. in. H_2O	Std. Mag. in. H_2O	Sampler Slope	Sampler Intercept	Std. Flow m^3/min.	* Time min.	Total Std. Volume m^3
10/04/93	PS–A1	18.20	19.00	28.64	28.71	43.00	41.00	18.60	291.60	28.68	728.35	42.00	41.13	0.0026	0.10926	0.2162	1372	296.59
10/04/93	PS–A2	23.00	19.90	28.64	28.74	42.00	41.00	21.45	294.45	28.69	728.73	41.50	40.27	0.0027	0.10489	0.2141	1364	291.99
10/04/93	PS–A3	23.20	20.30	28.64	28.98	44.00	42.00	21.75	294.75	28.81	731.77	43.00	41.86	0.0026	0.10546	0.2152	1370	294.79
10/04/93	PS–A4	18.50	18.30	28.67	29.99	44.00	44.00	18.40	291.40	29.33	744.98	44.00	44.11	0.0026	0.10624	0.2206	1368	301.80
10/04/93	PS–A5	19.90	18.40	18.67	29.99	48.00	48.00	19.15	292.15	24.33	617.98	48.00	39.81	0.0026	0.09838	0.2003	1369	274.15
10/04/93	PS–A6	20.10	20.60	28.67	30.00	46.00	45.00	20.35	293.35	29.34	745.11	45.50	45.32	0.0023	0.11236	0.2180	1371	298.87
10/04/93	PS–A7	22.90	21.60	28.65	28.98	44.00	44.00	22.25	295.25	28.82	731.90	44.00	42.77	0.0028	0.09579	0.2170	1368	296.79
10/04/93	PS–A8	21.60	19.20	28.65	29.98	46.00	44.00	20.40	293.40	29.32	744.60	45.00	44.78	0.0026	0.10133	0.2160	1367	295.29
10/04/93	PS–A9	22.70	20.90	28.63	29.97	53.00	51.00	21.80	294.80	29.30	744.22	52.00	51.47	0.0025	0.08841	0.2160	1369	295.65
10/04/93	PS–A10	22.90	21.60	28.63	29.97	41.00	40.00	22.25	295.25	29.30	744.22	40.50	40.03	0.0025	0.11900	0.2186	1367	298.82
10/04/93	PS–A11	21.30	17.80	28.64	28.73	44.00	44.00	19.55	292.55	28.69	728.60	44.00	42.97	0.0027	0.10468	0.2185	1372	299.85
10/04/93	PS–A12	22.80	21.40	28.62	29.96	47.00	44.00	22.10	295.10	29.29	743.97	45.50	44.98	0.0023	0.11495	0.2163	1360	294.21
10/04/93	PS–A13	22.70	21.40	28.63	29.96	47.00	43.00	22.05	295.05	29.30	744.09	45.00	44.50	0.0026	0.09671	0.2146	1355	290.77
10/04/93	PS–P1	25.90	22.80	28.62	29.97	45.00	43.00	24.35	297.35	29.30	744.09	44.00	43.17	0.0027	0.09867	0.2161	1342	290.06
10/04/93	PS–P2	28.60	24.50	28.63	29.97	44.00	44.00	26.55	299.55	29.30	744.22	44.00	42.86	0.0028	0.09892	0.2180	1343	292.77
10/04/93	PS–P3	23.50	21.90	28.64	29.98	44.00	42.00	22.70	295.70	29.31	744.47	43.00	42.45	0.0025	0.11206	0.2178	1334	290.55
10/04/93	PS–P4	27.30	23.00	28.62	29.98	44.00	42.00	25.15	298.15	29.30	744.22	43.00	42.09	0.0027	0.10232	0.2140	1330	284.59
10/04/93	PS–P5	25.80	24.60	28.64	29.99	38.00	34.00	25.20	298.20	29.32	744.60	36.00	35.25	0.0026	0.12044	0.2123	1323	280.87
10/04/93	PS–P6	26.20	24.30	28.63	30.00	42.00	41.00	25.25	298.25	29.32	744.60	41.50	40.63	0.0028	0.10175	0.2164	1317	285.04
10/04/93	PS–P7	27.30	23.20	28.62	29.99	44.00	43.00	25.25	298.25	29.31	744.35	43.50	42.57	0.0026	0.10628	0.2164	1313	284.08
10/04/93	PS–P8	28.70	24.80	28.62	29.97	45.00	44.00	26.75	299.75	29.30	744.09	44.50	43.31	0.0028	0.09356	0.2154	1306	281.31
10/04/93	PS–P9	30.40	25.80	28.60	29.97	40.00	39.00	28.10	301.10	29.29	743.84	39.50	38.26	0.0024	0.12483	0.2159	1302	281.04
10/04/93	PS–P10	28.60	24.80	28.60	29.96	48.00	47.00	26.70	299.70	29.28	743.71	47.50	46.22	0.0026	0.09706	0.2151	1298	279.20

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* Start Date	* Sampler S/N	* Initial Temp. °C	* Final Temp. °C	* Initial Pressure in. Hg.	* Final Pressure in. Hg.	* Initial Mag. in. H_2O	* Final Mag. in. H_2O	Avg. Temp. °C	Avg. Temp. Kelvin	Avg. Pressure in. Hg.	Avg. Pressure mm. Hg.	Avg. Mag. in. H_2O	Std. Mag. in. H_2O	Sampler Slope	Sampler Intercept	Std. Flow m^3/min.	* Time min.	Total Std. Volume m^3
10/07/93	PS–A1	21.60	19.20	29.79	25.57	43.00	39.00	20.40	293.40	27.68	703.07	41.00	38.52	0.0026	0.10926	0.2094	1384	289.79
10/07/93	PS–A2	21.40	20.00	29.81	29.58	42.00	38.00	20.70	293.70	29.70	754.25	40.00	40.28	0.0027	0.10489	0.2141	1390	297.58
10/07/93	PS–A3	21.70	19.80	29.84	29.59	44.00	43.00	20.75	293.75	29.72	754.76	43.50	43.83	0.0026	0.10546	0.2203	1391	306.48
10/07/93	PS–A4	21.10	19.60	29.83	29.60	44.00	41.00	20.35	293.35	29.72	754.76	42.50	42.88	0.0026	0.10624	0.2174	1392	302.65
10/07/93	PS–A5	21.60	19.80	28.84	29.59	48.00	46.00	20.70	293.70	29.22	742.06	47.00	46.56	0.0026	0.09838	0.2175	1393	303.02
10/07/93	PS–A6	22.30	20.30	29.82	29.59	46.50	45.00	21.30	294.30	29.71	754.51	45.75	45.99	0.0023	0.11236	0.2196	1396	306.51
10/07/93	PS–A7	24.80	21.90	29.82	29.60	44.00	42.00	23.35	296.35	29.71	754.63	43.00	42.93	0.0028	0.09579	0.2174	1442	313.52
10/07/93	PS–A8	22.80	21.60	29.81	29.59	46.00	45.00	22.20	295.20	29.70	754.38	45.50	45.59	0.0026	0.10133	0.2181	1443	314.71
10/07/93	PS–A9	22.40	22.30	29.78	29.59	53.00	52.00	22.35	295.35	29.69	754.00	52.50	52.55	0.0025	0.08841	0.2186	1447	316.37
10/07/93	PS–A10	23.00	21.80	29.79	29.59	41.00	40.00	22.40	295.40	29.69	754.13	40.50	40.54	0.0025	0.11900	0.2199	1447	318.15
10/07/93	PS–A11	21.00	18.90	29.79	29.57	44.00	43.00	19.95	292.95	29.68	753.87	43.50	43.89	0.0027	0.10468	0.2210	1387	306.53
10/07/93	PS–A12	27.40	25.70	29.78	29.56	47.00	45.00	26.55	299.55	29.67	753.62	46.00	45.38	0.0023	0.11495	0.2172	1471	319.55
10/07/93	PS–A13	25.90	25.80	29.77	29.54	47.00	46.00	25.85	298.85	29.66	753.24	46.50	45.96	0.0026	0.09671	0.2184	1471	321.34
10/07/93	PS–P1	24.10	24.30	29.78	29.57	45.00	44.00	24.20	297.20	29.68	753.75	44.50	44.25	0.0027	0.09867	0.2191	1449	317.44
10/07/93	PS–P2	24.50	22.70	29.80	29.59	44.00	41.00	23.60	296.60	29.70	754.25	42.50	42.38	0.0028	0.09892	0.2166	1440	311.97
10/07/93	PS–P3	24.10	21.70	29.82	29.60	44.00	42.00	22.90	295.90	29.71	754.63	43.00	43.00	0.0025	0.11206	0.2192	1441	315.83
10/07/93	PS–P4	24.80	22.70	29.81	29.89	44.00	40.00	23.75	296.75	29.85	758.19	42.00	42.08	0.0027	0.10232	0.2139	1441	308.30
10/07/93	PS–P5	25.70	24.30	29.81	29.58	38.00	37.00	25.00	298.00	29.70	754.25	37.50	37.22	0.0026	0.12044	0.2174	1444	313.97
10/07/93	PS–P6	26.20	25.90	29.81	29.60	42.00	42.00	26.05	299.05	29.71	754.51	42.00	41.55	0.0028	0.10175	0.2190	1444	316.30
10/07/93	PS–P7	24.70	25.10	29.80	29.59	44.00	42.00	24.90	297.90	29.70	754.25	43.00	42.69	0.0026	0.10628	0.2167	1454	315.04
10/07/93	PS–P8	26.20	24.70	29.78	29.57	45.00	45.00	25.45	298.45	29.68	753.75	45.00	44.56	0.0028	0.09356	0.2189	1456	318.73
10/07/93	PS–P9	26.20	24.40	29.80	29.57	40.00	39.00	25.30	298.30	29.69	754.00	39.50	39.15	0.0024	0.12483	0.2180	1457	317.57
10/07/93	PS–P10	25.80	24.10	29.79	29.57	48.00	47.00	24.95	297.95	29.68	753.87	47.50	47.12	0.0026	0.09706	0.2174	1461	317.64

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Start Date *	Sampler S/N *	Initial Temp. °C *	Final Temp. °C *	Initial Pressure in. Hg. *	Final Pressure in. Hg. *	Initial Mag. in. H_2O *	Final Mag. in. H_2O *	Avg. Temp. °C	Avg. Temp. Kelvin	Avg. Pressure in. Hg.	Avg. Pressure mm. Hg.	Avg. Mag. in. H_2O	Std. Mag. in. H_2O	Sampler Slope	Sampler Intercept	Std. Flow m^3/min.	Time min. *	Total Std. Volume m^3
10/08/93	PS–A1	25.90	11.30	29.56	30.00	43.00	40.00	18.60	291.60	29.78	756.41	41.50	42.21	0.0026	0.10926	0.2190	1353	296.27
10/08/93	PS–A2	32.50	10.80	29.57	30.05	42.00	47.00	21.65	294.65	29.81	757.17	44.50	44.84	0.0027	0.10489	0.2265	1352	306.16
10/08/93	PS–A3	27.10	11.20	29.56	30.07	44.00	46.00	19.15	292.15	29.82	757.30	45.00	45.74	0.0026	0.10546	0.2253	1350	304.21
10/08/93	PS–A4	25.90	9.10	29.56	30.08	44.00	46.00	17.50	290.50	29.82	757.43	45.00	46.01	0.0026	0.10624	0.2255	1351	304.70
10/08/93	PS–A5	27.30	8.90	29.57	30.18	48.00	47.00	18.10	291.10	29.88	758.83	47.50	48.55	0.0026	0.09838	0.2226	1351	300.76
10/08/93	PS–A6	27.40	9.70	29.57	30.10	46.00	47.00	18.55	291.55	29.84	757.81	46.50	47.39	0.0023	0.11236	0.2228	1350	300.82
10/08/93	PS–A7	28.80	9.50	29.57	30.10	44.00	46.00	19.15	292.15	29.84	757.81	45.00	45.77	0.0028	0.09579	0.2255	1349	304.14
10/08/93	PS–A8	28.70	9.50	29.56	30.10	46.00	58.00	19.10	292.10	29.83	757.68	52.00	52.89	0.0026	0.10133	0.2368	1349	319.41
10/08/93	PS–A9	29.00	11.20	29.56	30.07	53.00	56.00	20.10	293.10	29.82	757.30	54.50	55.21	0.0025	0.08841	0.2252	1356	305.42
10/08/93	PS–A10	29.00	12.30	29.55	30.05	41.00	43.00	20.65	293.65	29.80	756.92	42.00	42.45	0.0025	0.11900	0.2246	1356	304.58
10/08/93	PS–A11	26.90	10.90	29.56	30.03	44.00	51.00	18.90	291.90	29.80	756.79	47.50	48.29	0.0027	0.10468	0.2326	1353	314.77
10/08/93	PS–A12	26.50	10.70	29.56	30.01	47.00	45.00	18.60	291.60	29.79	756.54	46.00	46.80	0.0023	0.11495	0.2204	1373	302.65
10/08/93	PS–A13	24.90	9.80	29.54	30.00	47.00	50.00	17.35	290.35	29.77	756.16	48.50	49.53	0.0026	0.09671	0.2279	1370	312.23
10/08/93	PS–P1	28.80	14.40	29.56	30.07	45.00	46.00	21.60	294.60	29.82	757.30	45.50	45.86	0.0027	0.09867	0.2235	1355	302.78
10/08/93	PS–P2	27.80	12.30	29.57	30.07	44.00	46.00	20.05	293.05	29.82	757.43	45.00	45.61	0.0028	0.09892	0.2256	1355	305.71
10/08/93	PS–P3	28.70	9.80	29.56	30.08	44.00	47.00	19.25	292.25	29.82	757.43	45.50	46.24	0.0025	0.11206	0.2272	1355	307.91
10/08/93	PS–P4	31.70	9.90	29.56	30.09	44.00	43.00	20.80	293.80	29.83	757.56	43.50	43.98	0.0027	0.10232	0.2190	1355	296.74
10/08/93	PS–P5	27.90	11.50	29.56	30.09	38.00	40.00	19.70	292.70	29.83	757.56	39.00	39.58	0.0026	0.12044	0.2236	1352	302.29
10/08/93	PS–P6	29.00	10.90	29.56	30.10	42.00	44.00	19.95	292.95	29.83	757.68	43.00	43.61	0.0028	0.10175	0.2249	1351	303.78
10/08/93	PS–P7	30.20	11.20	29.55	30.08	44.00	45.00	20.70	293.70	29.82	757.30	44.50	44.99	0.0026	0.10628	0.2226	1356	301.88
10/08/93	PS–P8	29.80	11.20	29.54	30.07	45.00	45.00	20.50	293.50	29.81	757.05	45.00	45.51	0.0028	0.09356	0.2216	1356	300.47
10/08/93	PS–P9	31.60	11.90	29.55	30.07	40.00	42.00	21.75	294.75	29.81	757.17	41.00	41.30	0.0024	0.12483	0.2231	1355	302.27
10/08/93	PS–P10	30.40	9.70	29.54	30.09	48.00	49.00	20.05	293.05	29.82	757.30	48.50	49.14	0.0026	0.09706	0.2226	1355	301.58

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FAIRFAX, VA

* data entry from field data sheets

* Start Date	* Sampler S/N	* Initial Temp. °C	* Final Temp. °C	* Initial Pressure in. Hg.	* Final Pressure in. Hg.	* Initial Mag. in. H_2O	* Final Mag. in. H_2O	Avg. Temp. °C	Avg. Temp. Kelvin	Avg. Pressure in. Hg.	Avg. Pressure mm. Hg.	Avg. Mag. in. H_2O	Std. Mag. in. H_2O	Sampler Slope	Sampler Intercept	Std. Flow m^3/min.	* Time min.	Total Std. Volume m^3
10/11/93	PS–A1	14.70	14.40	29.94	29.81	43.00	40.00	14.55	287.55	29.88	758.83	41.50	42.94	0.0026	0.10926	0.2209	1352	298.62
10/11/93	PS–A2	14.70	15.60	29.96	29.82	42.00	39.00	15.15	288.15	29.89	759.21	40.50	41.84	0.0027	0.10489	0.2183	1348	294.30
10/11/93	PS–A3	15.50	15.80	29.97	29.83	44.00	42.00	15.65	288.65	29.90	759.46	43.00	44.36	0.0026	0.10546	0.2217	1345	298.23
10/11/93	PS–A4	12.80	15.60	29.98	29.82	44.00	43.00	14.20	287.20	29.90	759.46	43.50	45.10	0.0026	0.10624	0.2232	1343	299.75
10/11/93	PS–A5	14.40	14.30	29.98	29.82	48.00	46.00	14.35	287.35	29.90	759.46	47.00	48.71	0.0026	0.09838	0.2230	1341	299.07
10/11/93	PS–A6	16.20	15.80	29.97	29.84	46.00	44.00	16.00	289.00	29.91	759.59	45.00	46.38	0.0023	0.11236	0.2205	1339	295.20
10/11/93	PS–A7	18.80	16.20	29.98	29.82	44.00	42.00	17.50	290.50	29.90	759.46	43.00	44.08	0.0028	0.09579	0.2207	1337	295.03
10/11/93	PS–A8	15.60	15.60	29.95	29.81	46.00	44.00	15.60	288.60	29.88	758.95	45.00	46.40	0.0026	0.10133	0.2202	1334	293.70
10/11/93	PS–A9	17.60	17.40	29.94	29.79	53.00	50.00	17.50	290.50	29.87	758.57	51.50	52.73	0.0025	0.08841	0.2191	1331	291.59
10/11/93	PS–A10	16.40	16.90	29.94	29.78	41.00	40.00	16.65	289.65	29.86	758.44	40.50	41.58	0.0025	0.11900	0.2225	1330	295.87
10/11/93	PS–A11	17.50	15.40	29.95	29.82	44.00	42.00	16.45	289.45	29.89	759.08	43.00	44.22	0.0027	0.10468	0.2219	1350	299.51
10/11/93	PS–A12	20.80	24.40	29.91	29.77	47.00	45.00	22.60	295.60	29.84	757.94	46.00	46.25	0.0023	0.11495	0.2192	1327	290.87
10/11/93	PS–A13	21.40	21.30	29.89	29.78	47.00	44.00	21.35	294.35	29.84	757.81	45.50	45.93	0.0026	0.09671	0.2184	1327	289.80
10/11/93	PS–P1	17.40	18.20	29.95	29.79	45.00	43.00	17.80	290.80	29.87	758.70	44.00	45.01	0.0027	0.09867	0.2211	1329	293.90
10/11/93	PS–P2	21.60	18.30	29.97	29.79	44.00	41.00	19.95	292.95	29.88	758.95	42.50	43.17	0.0028	0.09892	0.2189	1327	290.42
10/11/93	PS–P3	17.50	15.40	29.97	29.80	44.00	41.00	16.45	289.45	29.89	759.08	42.50	43.70	0.0025	0.11206	0.2209	1325	292.73
10/11/93	PS–P4	17.70	15.40	29.97	29.80	44.00	42.00	16.55	289.55	29.89	759.08	43.00	44.20	0.0027	0.10232	0.2196	1323	290.51
10/11/93	PS–P5	18.30	18.50	29.94	29.81	38.00	38.00	18.40	291.40	29.88	758.83	38.00	38.80	0.0026	0.12044	0.2216	1321	292.68
10/11/93	PS–P6	18.30	17.30	29.95	29.82	42.00	40.00	17.80	290.80	29.89	759.08	41.00	41.96	0.0028	0.10175	0.2202	1319	290.46
10/11/93	PS–P7	19.80	19.00	29.94	29.81	44.00	42.00	19.40	292.40	29.88	758.83	43.00	43.76	0.0026	0.10628	0.2194	1322	290.09
10/11/93	PS–P8	19.80	19.20	29.92	29.79	45.00	43.00	19.50	292.50	29.86	758.32	44.00	44.73	0.0028	0.09356	0.2194	1321	289.80
10/11/93	PS–P9	18.70	18.40	29.91	29.79	40.00	38.00	18.55	291.55	29.85	758.19	39.00	39.77	0.0024	0.12483	0.2194	1319	289.44
10/11/93	PS–P10	16.90	17.20	29.91	29.79	48.00	44.00	17.05	290.05	29.85	758.19	46.00	47.15	0.0026	0.09706	0.2175	1317	286.41

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
PS–1 SAMPLER FLOW CALCULATION WORKSHEET

ENGINEERING–SCIENCE, INC.
FAIRFAX, VA

* data entry from field data sheets

* Start Date	* Sampler S/N	* Initial Temp. °C	* Final Temp. °C	* Initial Pressure in. Hg.	* Final Pressure in. Hg.	* Initial Mag. in. H_2O	* Final Mag. in. H_2O	Avg. Temp. °C	Avg. Temp. Kelvin	Avg. Pressure in. Hg.	Avg. Pressure mm. Hg.	Avg. Mag. in. H_2O	Std. Mag. in. H_2O	Sampler Slope	Sampler Intercept	Std. Flow m^3/min.	* Time min.	Total Std. Volume m^3
10/13/93	PS–A1	20.10	16.80	29.88	29.89	43.00	42.00	18.45	291.45	29.89	759.08	42.50	43.40	0.0026	0.10926	0.2221	1403	311.56
10/13/93	PS–A2	21.20	15.70	29.86	29.91	42.00	39.00	18.45	291.45	29.89	759.08	40.50	41.36	0.0027	0.10489	0.2170	1397	303.18
10/13/93	PS–A3	22.70	16.60	29.86	29.91	44.00	44.00	19.65	292.65	29.89	759.08	44.00	44.75	0.0026	0.10546	0.2228	1402	312.30
10/13/93	PS–A4	17.50	14.40	19.87	29.92	44.00	44.00	15.95	288.95	24.90	632.33	44.00	37.76	0.0026	0.10624	0.2041	1401	286.00
10/13/93	PS–A5	18.50	13.80	29.88	29.91	48.00	48.00	16.15	289.15	29.90	759.33	48.00	49.43	0.0026	0.09838	0.2249	1401	315.02
10/13/93	PS–A6	19.30	15.20	29.88	29.94	46.00	44.00	17.25	290.25	29.91	759.71	45.00	46.18	0.0023	0.11236	0.2200	1402	308.46
10/13/93	PS–A7	20.60	15.10	29.88	29.92	44.00	44.00	17.85	290.85	29.90	759.46	44.00	45.05	0.0028	0.09579	0.2234	1400	312.78
10/13/93	PS–A8	20.10	14.20	29.87	29.91	46.00	46.00	17.15	290.15	29.89	759.21	46.00	47.20	0.0026	0.10133	0.2222	1399	310.85
10/13/93	PS–A9	22.40	17.10	29.85	29.90	53.00	53.00	19.75	292.75	29.88	758.83	53.00	53.87	0.0025	0.08841	0.2219	1400	310.65
10/13/93	PS–A10	20.70	15.60	29.84	29.88	41.00	41.00	18.15	291.15	29.86	758.44	41.00	41.88	0.0025	0.11900	0.2232	1398	312.03
10/13/93	PS–A11	21.60	15.60	29.86	29.90	44.00	44.00	18.60	291.60	29.88	758.95	44.00	44.90	0.0027	0.10468	0.2237	1403	313.82
10/13/93	PS–A12	25.60	23.00	29.83	29.87	47.00	47.00	24.30	297.30	29.85	758.19	47.00	47.00	0.0023	0.11495	0.2209	1374	303.50
10/13/93	PS–A13	24.40	20.10	29.82	29.86	47.00	47.00	22.25	295.25	29.84	757.94	47.00	47.31	0.0026	0.09671	0.2220		0.00
10/13/93	PS–P1	22.00	17.60	29.86	29.89	45.00	44.00	19.80	292.80	29.88	758.83	44.50	45.22	0.0027	0.09867	0.2217	1398	309.95
10/13/93	PS–P2	23.10	16.80	29.86	29.88	44.00	43.00	19.95	292.95	29.87	758.70	43.50	44.17	0.0028	0.09892	0.2216	1397	309.63
10/13/93	PS–P3	22.40	15.50	29.88	29.89	44.00	43.00	18.95	291.95	29.89	759.08	43.50	44.35	0.0025	0.11206	0.2225	1391	309.54
10/13/93	PS–P4	22.90	17.10	29.86	29.89	44.00	43.00	20.00	293.00	29.88	758.83	43.50	44.17	0.0027	0.10232	0.2195	1391	305.34
10/13/93	PS–P5	23.50	18.20	29.87	29.89	38.00	40.00	20.85	293.85	29.88	758.95	39.00	39.50	0.0026	0.12044	0.2234	1385	309.37
10/13/93	PS–P6	21.60	15.60	29.86	29.89	42.00	43.00	18.60	291.60	29.88	758.83	42.50	43.37	0.0028	0.10175	0.2242	1384	310.25
10/13/93	PS–P7	24.20	16.60	29.88	29.88	44.00	44.00	20.40	293.40	29.88	758.95	44.00	44.63	0.0026	0.10628	0.2217	1382	306.37
10/13/93	PS–P8	24.60	17.20	29.86	29.88	45.00	45.00	20.90	293.90	29.87	758.70	45.00	45.55	0.0028	0.09356	0.2217	1377	305.26
10/13/93	PS–P9	24.20	17.10	29.86	29.88	40.00	40.00	20.65	293.65	29.87	758.70	40.00	40.52	0.0024	0.12483	0.2212	1376	304.42
10/13/93	PS–P10	24.40	17.10	29.86	29.87	48.00	46.00	20.75	293.75	29.87	758.57	47.00	47.59	0.0026	0.09706	0.2186	1374	300.36

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
PS–1 SAMPLER FLOW CALCULATION WORKSHEET

ENGINEERING–SCIENCE, INC.
FAIRFAX, VA

* data entry from field data sheets

Start Date *	Sampler S/N *	Initial Temp. °C *	Final Temp. °C *	Initial Pressure in. Hg. *	Final Pressure in. Hg. *	Initial Mag. in. H_2O *	Final Mag. in. H_2O *	Avg. Temp. °C	Avg. Temp. Kelvin	Avg. Pressure in. Hg.	Avg. Pressure mm. Hg.	Avg. Mag. in. H_2O	Std. Mag. in. H_2O	Sampler Slope	Sampler Intercept	Std. Flow m^3/min.	Time min. *	Total Std. Volume m^3
10/15/93	PS–A1	17.10	21.10	28.46	28.26	43.00	42.00	19.10	292.10	28.36	720.34	42.50	41.10	0.0026	0.10926	0.2161	1406	303.80
10/15/93	PS–A2	18.10	21.30	28.47	28.26	42.00	40.00	19.70	292.70	28.37	720.47	41.00	39.57	0.0027	0.10489	0.2122	1403	297.68
10/15/93	PS–A3	17.40	21.70	28.48	28.26	44.00	44.00	19.55	292.55	28.37	720.60	44.00	42.50	0.0026	0.10546	0.2168	1400	303.58
10/15/93	PS–A4	16.90	22.00	28.51	28.27	44.00	42.00	19.45	292.45	28.39	721.11	43.00	41.57	0.0026	0.10624	0.2140	1397	299.02
10/15/93	PS–A5	16.60	21.30	28.49	28.29	48.00	46.00	18.95	291.95	28.39	721.11	47.00	45.52	0.0026	0.09838	0.2149	1396	299.94
10/15/93	PS–A6	16.50	21.70	28.49	28.27	46.00	46.00	19.10	292.10	28.38	720.85	46.00	44.51	0.0023	0.11236	0.2161	1393	301.05
10/15/93	PS–A7	16.90	21.60	28.50	28.27	44.00	43.00	19.25	292.25	28.39	720.98	43.50	42.08	0.0028	0.09579	0.2150	1389	298.63
10/15/93	PS–A8	17.10	21.40	28.47	28.26	46.00	46.00	19.25	292.25	28.37	720.47	46.00	44.47	0.0026	0.10133	0.2152	1387	298.49
10/15/93	PS–A9	17.10	23.90	28.46	28.25	53.00	53.00	20.50	293.50	28.36	720.22	53.00	51.00	0.0025	0.08841	0.2148	1399	300.48
10/15/93	PS–A10	17.10	24.30	28.46	28.25	41.00	41.00	20.70	293.70	28.36	720.22	41.00	39.42	0.0025	0.11900	0.2171	1396	303.05
10/15/93	PS–A11	17.20	21.40	28.47	28.26	44.00	45.00	19.30	292.30	28.37	720.47	44.50	43.01	0.0027	0.10468	0.2187	1406	307.43
10/15/93	PS–A12	18.50	28.80	28.43	28.24	47.00	44.00	23.65	296.65	28.34	719.71	45.50	43.28	0.0023	0.11495	0.2125	1396	296.67
10/15/93	PS–A13	18.20	26.20	28.43	28.22	44.00	44.00	22.20	295.20	28.33	719.46	44.00	42.05	0.0026	0.09671	0.2081	1399	291.13
10/15/93	PS–P1	17.10	22.90	28.48	28.25	45.00	45.00	20.00	293.00	28.37	720.47	45.00	43.39	0.0027	0.09867	0.2167	1388	300.81
10/15/93	PS–P2	17.20	21.60	28.48	28.25	44.00	44.00	19.40	292.40	28.37	720.47	44.00	42.51	0.0028	0.09892	0.2170	1379	299.26
10/15/93	PS–P3	17.10	21.70	28.48	28.26	44.00	44.00	19.40	292.40	28.37	720.60	44.00	42.52	0.0025	0.11206	0.2180	1377	300.15
10/15/93	PS–P4	17.10	21.90	28.49	28.26	44.00	43.00	19.50	292.50	28.38	720.73	43.50	42.03	0.0027	0.10232	0.2138	1373	293.57
10/15/93	PS–P5	17.20	22.70	28.47	28.27	38.00	40.00	19.95	292.95	28.37	720.60	39.00	37.62	0.0026	0.12044	0.2185	1365	298.21
10/15/93	PS–P6	17.20	22.70	28.47	28.27	42.00	42.00	19.95	292.95	28.37	720.60	42.00	40.51	0.0028	0.10175	0.2161	1362	294.34
10/15/93	PS–P7	17.10	25.90	28.48	28.27	44.00	44.00	21.50	294.50	28.38	720.73	44.00	42.22	0.0026	0.10628	0.2155	1424	306.82
10/15/93	PS–P8	17.10	26.80	28.45	28.25	45.00	43.00	21.95	294.95	28.35	720.09	44.00	42.12	0.0028	0.09356	0.2120	1420	301.10
10/15/93	PS–P9	17.20	28.60	28.45	28.24	40.00	40.00	22.90	295.90	28.35	719.96	40.00	38.16	0.0024	0.12483	0.2156	1416	305.31
10/15/93	PS–P10	17.80	27.30	28.46	28.24	48.00	48.00	22.55	295.55	28.35	720.09	48.00	45.86	0.0026	0.09706	0.2142	1412	302.41

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
PS–1 SAMPLER FLOW CALCULATION WORKSHEET

ENGINEERING–SCIENCE, INC.
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* Start Date	* Sampler S/N	* Initial Temp. °C	* Final Temp. °C	* Initial Pressure in. Hg.	* Final Pressure in. Hg.	* Initial Mag. in. H_2O	* Final Mag. in. H_2O	Avg. Temp. °C	Avg. Temp. Kelvin	Avg. Pressure in. Hg.	Avg. Pressure mm. Hg.	Avg. Mag. in. H_2O	Std. Mag. in. H_2O	Sampler Slope	Sampler Intercept	Std. Flow m^3/min.	* Time min.	Total Std. Volume m^3
10/18/93	PS–A1	18.30	15.50	28.45	28.58	43.00	43.00	16.90	289.90	28.52	724.28	43.00	42.12	0.0026	0.10926	0.2187	1360	297.49
10/18/93	PS–A2	18.30	16.10	28.45	28.62	42.00	40.00	17.20	290.20	28.54	724.79	41.00	40.15	0.0027	0.10489	0.2137	1355	289.62
10/18/93	PS–A3	18.10	15.20	28.45	28.62	44.00	43.00	16.65	289.65	28.54	724.79	43.50	42.68	0.0026	0.10546	0.2173	1352	293.83
10/18/93	PS–A4	16.30	14.20	28.46	28.62	44.00	45.00	15.25	288.25	28.54	724.92	44.50	43.88	0.0026	0.10624	0.2200	1350	297.03
10/18/93	PS–A5	17.10	13.80	28.45	28.64	48.00	50.00	15.45	288.45	28.55	725.04	49.00	48.29	0.0026	0.09838	0.2220	1346	298.76
10/18/93	PS–A6	17.10	14.30	28.45	28.64	46.00	45.00	15.70	288.70	28.55	725.04	45.50	44.81	0.0023	0.11236	0.2168	1342	290.95
10/18/93	PS–A7	15.70	14.30	28.46	28.64	44.00	42.00	15.00	288.00	28.55	725.17	43.00	42.45	0.0028	0.09579	0.2161	1337	288.88
10/18/93	PS–A8	16.10	14.00	28.44	28.64	46.00	44.00	15.05	288.05	28.54	724.92	45.00	44.41	0.0026	0.10133	0.2151	1298	279.14
10/18/93	PS–A9	17.30	15.20	28.43	28.62	53.00	51.00	16.25	289.25	28.53	724.54	52.00	51.07	0.0025	0.08841	0.2150	1295	278.39
10/18/93	PS–A10	19.90	14.20	28.44	28.60	41.00	42.00	17.05	290.05	28.52	724.41	41.50	40.64	0.0025	0.11900	0.2201	1292	284.39
10/18/93	PS–A11	18.60	15.90	28.45	28.60	44.00	46.00	17.25	290.25	28.53	724.54	45.00	44.05	0.0027	0.10468	0.2214	1358	300.67
10/18/93	PS–A12	18.70	14.70	28.42	28.55	47.00	46.00	16.70	289.70	28.49	723.52	46.50	45.54	0.0023	0.11495	0.2176	1454	316.38
10/18/93	PS–A13	18.60	14.40	28.42	28.57	44.00	42.00	16.50	289.50	28.50	723.77	43.00	42.15	0.0026	0.09671	0.2084	1454	302.98
10/18/93	PS–P1	18.60	14.40	28.44	28.63	45.00	44.00	16.50	289.50	28.54	724.79	44.50	43.68	0.0027	0.09867	0.2175	1287	279.96
10/18/93	PS–P2	16.60	16.80	28.45	28.62	44.00	44.00	16.70	289.70	28.54	724.79	44.00	43.16	0.0028	0.09892	0.2188	1285	281.20
10/18/93	PS–P3	17.10	14.20	28.45	28.63	44.00	43.00	15.65	288.65	28.54	724.92	43.50	42.84	0.0025	0.11206	0.2188	1282	280.46
10/18/93	PS–P4	16.80	14.00	28.45	28.62	44.00	44.00	15.40	288.40	28.54	724.79	44.00	43.36	0.0027	0.10232	0.2173	1278	277.77
10/18/93	PS–P5	17.30	14.30	28.44	28.64	38.00	37.00	15.80	288.80	28.54	724.92	37.50	36.91	0.0026	0.12044	0.2166	1273	275.77
10/18/93	PS–P6	17.70	14.10	28.44	28.64	42.00	40.00	15.90	288.90	28.54	724.92	41.00	40.34	0.0028	0.10175	0.2156	1269	273.63
10/18/93	PS–P7	18.10	15.60	28.45	28.62	44.00	43.00	16.85	289.85	28.54	724.79	43.50	42.65	0.0026	0.10628	0.2166	1330	288.04
10/18/93	PS–P8	17.60	13.90	28.44	28.62	45.00	44.00	15.75	288.75	28.53	724.66	44.50	43.79	0.0028	0.09356	0.2167	1325	287.18
10/18/93	PS–P9	17.20	14.40	28.44	28.62	40.00	39.00	15.80	288.80	28.53	724.66	39.50	38.86	0.0024	0.12483	0.2173	1322	287.25
10/18/93	PS–P10	18.10	16.80	28.43	28.62	48.00	46.00	17.45	290.45	28.53	724.54	47.00	45.97	0.0026	0.09706	0.2145	1319	282.88

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
PS–1 SAMPLER FLOW CALCULATION WORKSHEET

ENGINEERING–SCIENCE, INC.
FAIRFAX, VA

* data entry from field data sheets

* Start Date	* Sampler S/N	* Initial Temp. °C	* Final Temp. °C	* Initial Pressure in. Hg.	* Final Pressure in. Hg.	* Initial Mag. in. H_2O	* Final Mag. in. H_2O	Avg. Temp. °C	Avg. Temp. Kelvin	Avg. Pressure in. Hg.	Avg. Pressure mm. Hg.	Avg. Mag. in. H_2O	Std. Mag. in. H_2O	Sampler Slope	Sampler Intercept	Std. Flow m^3/min.	* Time min.	Total Std. Volume m^3
10/20/93	PS–A1	15.00	14.20	28.65	28.98	43.00	40.00	14.60	287.60	28.82	731.90	41.50	41.41	0.0026	0.10926	0.2169	1430	310.15
10/20/93	PS–A2	15.60	17.20	28.64	28.99	42.00	39.00	16.40	289.40	28.82	731.90	40.50	40.16	0.0027	0.10489	0.2138	1421	303.77
10/20/93	PS–A3	15.60	15.90	28.64	29.01	44.00	43.00	15.75	288.75	28.83	732.16	43.50	43.25	0.0026	0.10546	0.2188	1419	310.50
10/20/93	PS–A4	15.50	14.60	28.66	29.02	44.00	42.00	15.05	288.05	28.84	732.54	43.00	42.88	0.0026	0.10624	0.2174	1418	308.31
10/20/93	PS–A5	15.30	14.80	28.66	29.03	48.00	46.00	15.05	288.05	28.85	732.66	47.00	46.87	0.0026	0.09838	0.2183	1415	308.93
10/20/93	PS–A6	16.80	17.30	28.67	29.04	46.00	46.00	17.05	290.05	28.86	732.92	46.00	45.58	0.0023	0.11236	0.2186	1414	309.10
10/20/93	PS–A7	16.70	20.30	28.66	29.03	44.00	42.00	18.50	291.50	28.85	732.66	43.00	42.38	0.0028	0.09579	0.2158	1415	305.42
10/20/93	PS–A8	17.40	20.30	28.65	29.03	46.00	46.00	18.85	291.85	28.84	732.54	46.00	45.27	0.0026	0.10133	0.2173	1414	307.22
10/20/93	PS–A9	16.80	21.60	28.64	29.00	53.00	51.00	19.20	292.20	28.82	732.03	52.00	51.08	0.0025	0.08841	0.2150	1421	305.50
10/20/93	PS–A10	18.30	21.80	28.62	29.00	41.00	39.00	20.05	293.05	28.81	731.77	40.00	39.16	0.0025	0.11900	0.2164	1418	306.92
10/20/93	PS–A11	14.80	15.00	28.64	29.00	44.00	45.00	14.90	287.90	28.82	732.03	44.50	44.37	0.0027	0.10468	0.2223	1424	316.49
10/20/93	PS–A12	21.60	23.00	28.62	28.97	47.00	45.00	22.30	295.30	28.80	731.39	46.00	44.67	0.0023	0.11495	0.2156	1435	309.45
10/20/93	PS–A13	19.20	20.40	28.62	28.96	44.00	44.00	19.80	292.80	28.79	731.27	44.00	43.09	0.0026	0.09671	0.2109	1433	302.15
10/20/93	PS–P1	22.70	23.40	28.63	29.00	45.00	44.00	23.05	296.05	28.82	731.90	44.50	43.14	0.0027	0.09867	0.2160	1415	305.70
10/20/93	PS–P2	20.90	24.90	28.65	29.00	44.00	42.00	22.90	295.90	28.83	732.16	43.00	41.72	0.0028	0.09892	0.2148	1414	303.75
10/20/93	PS–P3	17.10	25.20	28.64	29.00	44.00	43.00	21.15	294.15	28.82	732.03	43.50	42.45	0.0025	0.11206	0.2178	1406	306.22
10/20/93	PS–P4	22.40	23.20	28.64	29.00	44.00	40.00	22.80	295.80	28.82	732.03	42.00	40.76	0.0027	0.10232	0.2104	1410	296.72
10/20/93	PS–P5	20.30	23.40	28.65	29.00	38.00	36.00	21.85	294.85	28.83	732.16	37.00	36.03	0.0026	0.12044	0.2143	1405	301.13
10/20/93	PS–P6	24.20	24.80	28.65	29.00	42.00	40.00	24.50	297.50	28.83	732.16	41.00	39.56	0.0028	0.10175	0.2134	1403	299.46
10/20/93	PS–P7	19.90	23.40	28.65	29.00	44.00	42.00	21.65	294.65	28.83	732.16	43.00	41.90	0.0026	0.10628	0.2146	1424	305.62
10/20/93	PS–P8	21.00	23.40	28.63	29.00	45.00	41.00	22.20	295.20	28.82	731.90	43.00	41.80	0.0028	0.09356	0.2111	1418	299.41
10/20/93	PS–P9	18.80	22.20	28.63	29.00	40.00	38.00	20.50	293.50	28.82	731.90	39.00	38.13	0.0024	0.12483	0.2155	1415	305.00
10/20/93	PS–P10	21.40	23.40	28.64	29.00	48.00	48.00	22.40	295.40	28.82	732.03	48.00	46.64	0.0026	0.09706	0.2162	1410	304.81

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
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ENGINEERING–SCIENCE, INC.
FAIRFAX, VA

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* Start Date	* Sampler S/N	* Initial Temp. °C	* Final Temp. °C	* Initial Pressure in. Hg.	* Final Pressure in. Hg.	* Initial Mag. in. H_2O	* Final Mag. in. H_2O	Avg. Temp. °C	Avg. Temp. Kelvin	Avg. Pressure in. Hg.	Avg. Pressure mm. Hg.	Avg. Mag. in. H_2O	Std. Mag. in. H_2O	Sampler Slope	Sampler Intercept	Std. Flow m^3/min.	* Time min.	Total Std. Volume m^3
10/25/93	PS–A1	17.70	14.70	28.52	28.76	43.00	41.00	16.20	289.20	28.64	727.46	42.00	41.42	0.0026	0.10926	0.2169	1443	313.03
10/25/93	PS–A2	17.80	16.10	28.62	28.80	42.00	40.00	16.95	289.95	28.71	729.23	41.00	40.43	0.0027	0.10489	0.2145	1435	307.82
10/25/93	PS–A3	19.20	15.70	28.63	28.81	44.00	44.00	17.45	290.45	28.72	729.49	44.00	43.33	0.0026	0.10546	0.2190	1432	313.66
10/25/93	PS–A4	20.10	14.80	28.62	28.83	44.00	45.00	17.45	290.45	28.73	729.62	44.50	43.83	0.0026	0.10624	0.2199	1423	312.91
10/25/93	PS–A5	17.20	14.70	28.63	28.83	48.00	48.00	15.95	288.95	28.73	729.74	48.00	47.53	0.0026	0.09838	0.2200	1424	313.30
10/25/93	PS–A6	18.60	16.10	28.63	28.81	46.00	49.00	17.35	290.35	28.72	729.49	47.50	46.79	0.0023	0.11236	0.2214	1426	315.77
10/25/93	PS–A7	20.80	17.70	28.62	28.81	44.00	44.00	19.25	292.25	28.72	729.36	44.00	43.06	0.0028	0.09579	0.2178	1425	310.32
10/25/93	PS–A8	23.70	17.80	28.60	28.79	46.00	47.00	20.75	293.75	28.70	728.85	46.50	45.24	0.0026	0.10133	0.2172	1425	309.49
10/25/93	PS–A9	22.30	20.70	28.58	28.76	53.00	51.00	21.50	294.50	28.67	728.22	52.00	50.42	0.0025	0.08841	0.2133	1431	305.30
10/25/93	PS–A10	20.40	20.30	28.57	28.77	41.00	42.00	20.35	293.35	28.67	728.22	41.50	40.39	0.0025	0.11900	0.2195	1432	314.33
10/25/93	PS–A11	16.70	15.80	28.62	28.79	44.00	44.00	16.25	289.25	28.71	729.11	44.00	43.49	0.0027	0.10468	0.2199	1420	312.30
10/25/93	PS–A12	23.40	23.40	28.55	28.76	47.00	45.00	23.40	296.40	28.66	727.84	46.00	44.29	0.0023	0.11495	0.2148	1436	308.43
10/25/93	PS–A13	23.40	23.40	28.55	28.76	44.00	45.00	23.40	296.40	28.66	727.84	44.50	42.85	0.0026	0.09671	0.2102	1437	302.08
10/25/93	PS–P1	24.90	22.40	28.58	28.76	45.00	46.00	23.65	296.65	28.67	728.22	45.50	43.80	0.0027	0.09867	0.2178	1438	313.24
10/25/93	PS–P2	24.80	21.60	28.58	28.77	44.00	45.00	23.20	296.20	28.68	728.35	44.50	42.91	0.0028	0.09892	0.2181	1438	313.65
10/25/93	PS–P3	22.50	20.50	28.57	28.76	44.00	46.00	21.50	294.50	28.67	728.09	45.00	43.62	0.0025	0.11206	0.2207	1438	317.41
10/25/93	PS–P4	23.00	20.20	28.51	28.78	44.00	42.00	21.60	294.60	28.65	727.58	43.00	41.64	0.0027	0.10232	0.2128	1439	306.21
10/25/93	PS–P5	26.30	21.40	28.60	28.79	38.00	39.00	23.85	296.85	28.70	728.85	38.50	37.07	0.0026	0.12044	0.2170	1438	312.10
10/25/93	PS–P6	24.90	21.80	28.60	28.79	42.00	44.00	23.35	296.35	28.70	728.85	43.00	41.47	0.0028	0.10175	0.2188	1437	314.43
10/25/93	PS–P7	24.60	20.60	28.58	28.77	44.00	44.00	22.60	295.60	28.68	728.35	44.00	42.51	0.0026	0.10628	0.2162	1442	311.77
10/25/93	PS–P8	24.20	19.90	28.56	28.77	45.00	42.00	22.05	295.05	28.67	728.09	43.50	42.09	0.0028	0.09356	0.2120	1441	305.43
10/25/93	PS–P9	26.20	21.10	28.57	28.76	40.00	39.00	23.65	296.65	28.67	728.09	39.50	38.01	0.0024	0.12483	0.2153	1442	310.41
10/25/93	PS–P10	24.40	20.50	28.55	28.75	42.00	42.00	22.45	295.45	28.65	727.71	42.00	40.56	0.0026	0.09706	0.2007	1441	289.14

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
PS–1 SAMPLER FLOW CALCULATION WORKSHEET

ENGINEERING–SCIENCE, INC.
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* Start Date	* Sampler S/N	* Initial Temp. °C	* Final Temp. °C	* Initial Pressure in. Hg.	* Final Pressure in. Hg.	* Initial Mag. in. H_2O	* Final Mag. in. H_2O	Avg. Temp. °C	Avg. Temp. Kelvin	Avg. Pressure in. Hg.	Avg. Pressure mm. Hg.	Avg. Mag. in. H_2O	Std. Mag. in. H_2O	Sampler Slope	Sampler Intercept	Std. Flow m^3/min.	* Time min.	Total Std. Volume m^3
10/27/93	PS–A1	8.60	17.70	28.99	28.35	43.00	40.00	13.15	286.15	28.67	728.22	41.50	41.41	0.0026	0.10926	0.2169	1451	314.71
10/27/93	PS–A2	12.40	16.30	29.00	28.35	42.00	38.00	14.35	287.35	28.68	728.35	40.00	39.75	0.0027	0.10489	0.2127	1450	308.37
10/27/93	PS–A3	14.70	17.00	28.99	28.36	44.00	43.00	15.85	288.85	28.68	728.35	43.50	43.01	0.0026	0.10546	0.2182	1450	316.37
10/27/93	PS–A4	13.60	17.20	28.99	28.36	44.00	41.00	15.40	288.40	28.68	728.35	42.50	42.09	0.0026	0.10624	0.2154	1447	311.64
10/27/93	PS–A5	10.60	15.80	29.03	28.35	48.00	48.00	13.20	286.20	28.69	728.73	48.00	47.92	0.0026	0.09838	0.2210	1447	319.80
10/27/93	PS–A6	13.50	17.60	29.03	28.36	46.00	42.00	15.55	288.55	28.70	728.85	44.00	43.58	0.0023	0.11236	0.2139	1447	309.58
10/27/93	PS–A7	14.40	18.10	28.99	28.38	44.00	42.00	16.25	289.25	28.69	728.60	43.00	42.47	0.0028	0.09579	0.2161	1447	312.71
10/27/93	PS–A8	13.50	17.70	29.00	28.35	46.00	43.00	15.60	288.60	28.68	728.35	44.50	44.04	0.0026	0.10133	0.2141	1446	309.60
10/27/93	PS–A9	14.90	17.70	28.96	28.33	53.00	51.00	16.30	289.30	28.65	727.58	52.00	51.28	0.0025	0.08841	0.2155	1446	311.59
10/27/93	PS–A10	15.10	18.70	28.96	28.32	41.00	40.00	16.90	289.90	28.64	727.46	40.50	39.85	0.0025	0.11900	0.2181	1441	314.35
10/27/93	PS–A11	11.80	16.00	29.00	28.35	44.00	42.00	13.90	286.90	28.68	728.35	43.00	42.80	0.0027	0.10468	0.2181	1450	316.26
10/27/93	PS–A12	13.70	19.20	28.92	28.35	47.00	44.00	16.45	289.45	28.64	727.33	45.50	44.83	0.0023	0.11495	0.2160	1448	312.77
10/27/93	PS–A13	8.80	17.10	28.95	28.35	44.00	44.00	12.95	285.95	28.65	727.71	44.00	43.91	0.0026	0.09671	0.2130	1446	308.03
10/27/93	PS–P1	19.10	20.20	28.94	28.32	45.00	43.00	19.65	292.65	28.63	727.20	44.00	42.87	0.0027	0.09867	0.2153	1445	311.13
10/27/93	PS–P2	20.30	22.40	28.96	28.33	44.00	43.00	21.35	294.35	28.65	727.58	43.50	42.16	0.0028	0.09892	0.2160	1445	312.19
10/27/93	PS–P3	16.30	21.10	28.96	28.33	44.00	43.00	18.70	291.70	28.65	727.58	43.50	42.54	0.0025	0.11206	0.2180	1444	314.85
10/27/93	PS–P4	17.00	20.10	28.95	28.34	44.00	42.00	18.55	291.55	28.65	727.58	43.00	42.08	0.0027	0.10232	0.2139	1443	308.73
10/27/93	PS–P5	18.90	20.60	28.96	28.35	38.00	38.00	19.75	292.75	28.66	727.84	38.00	37.04	0.0026	0.12044	0.2170	1439	312.24
10/27/93	PS–P6	19.20	21.80	28.95	28.34	42.00	40.00	20.50	293.50	28.65	727.58	41.00	39.85	0.0028	0.10175	0.2143	1439	308.31
10/27/93	PS–P7	16.40	20.40	28.95	28.33	44.00	41.00	18.40	291.40	28.64	727.46	42.50	41.60	0.0026	0.10628	0.2139	1433	306.46
10/27/93	PS–P8	16.20	20.30	28.95	28.33	45.00	42.00	18.25	291.25	28.64	727.46	43.50	42.60	0.0028	0.09356	0.2134	1433	305.80
10/27/93	PS–P9	17.80	20.10	28.93	28.32	40.00	38.00	18.95	291.95	28.63	727.08	39.00	38.08	0.0024	0.12483	0.2154	1432	308.49
10/27/93	PS–P10	16.30	20.10	28.93	28.31	42.00	41.00	18.20	291.20	28.62	726.95	41.50	40.62	0.0026	0.09706	0.2008	1430	287.15

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
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* Start Date	* Sampler S/N	* Initial Temp. °C	* Final Temp. °C	* Initial Pressure in. Hg.	* Final Pressure in. Hg.	* Initial Mag. in. H_2O	* Final Mag. in. H_2O	Avg. Temp. °C	Avg. Temp. Kelvin	Avg. Pressure in. Hg.	Avg. Pressure mm. Hg.	Avg. Mag. in. H_2O	Std. Mag. in. H_2O	Sampler Slope	Sampler Intercept	Std. Flow m^3/min.	* Time min.	Total Std. Volume m^3
10/29/93	PS–A1	5.70	4.60	28.55	28.80	43.00	43.00	5.15	278.15	28.68	728.35	43.00	44.15	0.0026	0.10926	0.2240	1424	318.99
10/29/93	PS–A2	6.00	6.20	28.62	28.83	42.00	40.00	6.10	279.10	28.73	729.62	41.00	42.03	0.0027	0.10489	0.2188	1415	309.64
10/29/93	PS–A3	7.70	7.60	28.67	28.82	44.00	43.00	7.65	280.65	28.75	730.12	43.50	44.37	0.0026	0.10546	0.2218	1411	312.91
10/29/93	PS–A4	8.00	8.50	28.53	28.90	44.00	45.00	8.25	281.25	28.72	729.36	44.50	45.25	0.0026	0.10624	0.2236	1451	324.40
10/29/93	PS–A5	6.40	8.80	28.57	28.95	48.00	57.00	7.60	280.60	28.76	730.50	52.50	53.59	0.0026	0.09838	0.2355	1456	342.91
10/29/93	PS–A6	6.00	7.00	28.55	28.96	46.00	46.00	6.50	279.50	28.76	730.38	46.00	47.13	0.0023	0.11236	0.2222	1439	319.79
10/29/93	PS–A7	6.20	6.00	28.68	28.83	44.00	46.00	6.10	279.10	28.76	730.38	45.00	46.17	0.0028	0.09579	0.2266	1411	319.74
10/29/93	PS–A8	6.00	8.50	28.55	28.94	46.00	44.00	7.25	280.25	28.75	730.12	45.00	45.97	0.0026	0.10133	0.2191	1440	315.44
10/29/93	PS–A9	6.00	6.20	28.55	28.93	53.00	54.00	6.10	279.10	28.74	730.00	53.50	54.87	0.0025	0.08841	0.2244	1440	323.10
10/29/93	PS–A10	6.00	7.60	28.49	28.93	41.00	41.00	6.80	279.80	28.71	729.23	41.00	41.90	0.0025	0.11900	0.2232	1437	320.81
10/29/93	PS–A11	6.00	6.30	28.60	28.80	44.00	43.00	6.15	279.15	28.70	728.98	43.50	44.54	0.0027	0.10468	0.2227	1417	315.59
10/29/93	PS–A12	7.60	8.00	28.66	28.73	47.00	46.00	7.80	280.80	28.70	728.85	46.50	47.33	0.0023	0.11495	0.2216	1437	318.47
10/29/93	PS–A13	7.50	7.60	28.66	28.73	44.00	43.00	7.55	280.55	28.70	728.85	43.50	44.31	0.0026	0.09671	0.2141	1437	307.66
10/29/93	PS–P1	9.10	10.00	28.54	28.81	45.00	44.00	9.55	282.55	28.68	728.35	44.50	44.98	0.0027	0.09867	0.2211	1439	318.09
10/29/93	PS–P2	7.30	10.00	28.58	28.89	44.00	42.00	8.65	281.65	28.74	729.87	43.00	43.69	0.0028	0.09892	0.2203	1440	317.23
10/29/93	PS–P3	7.30	11.80	28.58	28.90	44.00	44.00	9.55	282.55	28.74	730.00	44.00	44.57	0.0025	0.11206	0.2231	1440	321.26
10/29/93	PS–P4	6.80	8.20	28.60	28.93	44.00	45.00	7.50	280.50	28.77	730.63	44.50	45.45	0.0027	0.10232	0.2229	1440	320.97
10/29/93	PS–P5	7.10	10.50	28.62	28.93	38.00	39.00	8.80	281.80	28.78	730.89	38.50	39.15	0.0026	0.12044	0.2225	1438	319.92
10/29/93	PS–P6	7.30	9.10	28.61	28.95	42.00	42.00	8.20	281.20	28.78	731.01	42.00	42.81	0.0028	0.10175	0.2226	1437	319.89
10/29/93	PS–P7	7.50	8.10	28.55	28.94	44.00	44.00	7.80	280.80	28.75	730.12	44.00	44.86	0.0026	0.10628	0.2223	1431	318.09
10/29/93	PS–P8	9.20	9.10	28.55	28.92	45.00	46.00	9.15	282.15	28.74	729.87	45.50	46.15	0.0028	0.09356	0.2234	1429	319.21
10/29/93	PS–P9	9.00	9.50	28.55	28.94	40.00	39.00	9.25	282.25	28.75	730.12	39.50	40.06	0.0024	0.12483	0.2201	1425	313.70
10/29/93	PS–P10	8.70	9.60	28.55	28.93	42.00	42.00	9.15	282.15	28.74	730.00	42.00	42.61	0.0026	0.09706	0.2059	1427	293.79

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
PS–1 SAMPLER FLOW CALCULATION WORKSHEET

ENGINEERING–SCIENCE, INC.
FAIRFAX, VA

* data entry from field data sheets

* Start Date	* Sampler S/N	* Initial Temp. °C	* Final Temp. °C	* Initial Pressure in. Hg.	* Final Pressure in. Hg.	* Initial Mag. in. H_2O	* Final Mag. in. H_2O	Avg. Temp. °C	Avg. Temp. Kelvin	Avg. Pressure in. Hg.	Avg. Pressure mm. Hg.	Avg. Mag. in. H_2O	Std. Mag. in. H_2O	Sampler Slope	Sampler Intercept	Std. Flow m^3/min.	* Time min.	Total Std. Volume m^3
11/01/93	PS–A1	8.00	13.10	28.71	28.81	43.00	42.00	10.55	283.55	28.76	730.50	42.50	42.93	0.0026	0.10926	0.2208	1381	304.99
11/01/93	PS–A2	11.80	11.60	28.74	28.85	42.00	39.00	11.70	284.70	28.80	731.39	40.50	40.80	0.0027	0.10489	0.2155	1372	295.66
11/01/93	PS–A3	10.30	11.80	28.77	28.86	44.00	42.00	11.05	284.05	28.82	731.90	43.00	43.44	0.0026	0.10546	0.2193	1372	300.92
11/01/93	PS–A4	9.30	11.90	28.78	28.86	44.00	44.00	10.60	283.60	28.82	732.03	44.00	44.53	0.0026	0.10624	0.2217	1370	303.75
11/01/93	PS–A5	9.00	11.60	28.81	28.86	48.00	46.00	10.30	283.30	28.84	732.41	47.00	47.64	0.0026	0.09838	0.2203	1370	301.81
11/01/93	PS–A6	8.60	12.10	28.81	28.86	46.00	44.00	10.35	283.35	28.84	732.41	45.00	45.61	0.0023	0.11236	0.2187	1369	299.37
11/01/93	PS–A7	9.00	12.10	28.81	28.86	44.00	44.00	10.55	283.55	28.84	732.41	44.00	44.56	0.0028	0.09579	0.2220	1370	304.19
11/01/93	PS–A8	8.60	13.40	28.80	28.85	46.00	44.00	11.00	284.00	28.83	732.16	45.00	45.49	0.0026	0.10133	0.2178	1370	298.42
11/01/93	PS–A9	9.00	13.80	28.77	28.84	53.00	50.00	11.40	284.40	28.81	731.65	51.50	51.95	0.0025	0.08841	0.2171	1369	297.27
11/01/93	PS–A10	8.90	14.00	28.77	28.83	41.00	40.00	11.45	284.45	28.80	731.52	40.50	40.84	0.0025	0.11900	0.2206	1369	302.02
11/01/93	PS–A11	9.00	12.10	28.74	28.83	44.00	43.00	10.55	283.55	28.79	731.14	43.50	43.98	0.0027	0.10468	0.2212	1373	303.75
11/01/93	PS–A12	11.00	11.00	28.71	28.79	47.00	44.00	11.00	284.00	28.75	730.25	45.50	45.87	0.0023	0.11495	0.2184	1383	301.98
11/01/93	PS–A13	11.40	11.00	28.70	28.77	44.00	42.00	11.20	284.20	28.74	729.87	43.00	43.30	0.0026	0.09671	0.2114	1385	292.81
11/01/93	PS–P1	14.00	13.00	28.71	28.83	45.00	44.00	13.50	286.50	28.77	730.76	44.50	44.51	0.0027	0.09867	0.2198	1409	309.65
11/01/93	PS–P2	14.00	14.00	28.74	28.84	44.00	43.00	14.00	287.00	28.79	731.27	43.50	43.46	0.0028	0.09892	0.2197	1407	309.05
11/01/93	PS–P3	14.00	15.80	28.74	28.84	44.00	42.00	14.90	287.90	28.79	731.27	43.00	42.83	0.0025	0.11206	0.2187	1406	307.55
11/01/93	PS–P4	14.00	14.70	28.74	28.84	44.00	43.00	14.35	287.35	28.79	731.27	43.50	43.41	0.0027	0.10232	0.2175	1407	305.99
11/01/93	PS–P5	14.00	14.80	28.74	28.84	38.00	40.00	14.40	287.40	28.79	731.27	39.00	38.91	0.0026	0.12044	0.2218	1408	312.35
11/01/93	PS–P6	13.10	15.40	28.75	28.84	42.00	41.00	14.25	287.25	28.80	731.39	41.50	41.43	0.0028	0.10175	0.2187	1409	308.17
11/01/93	PS–P7	11.80	15.40	28.76	28.83	44.00	42.00	13.60	286.60	28.80	731.39	43.00	43.03	0.0026	0.10628	0.2175	1410	306.74
11/01/93	PS–P8	11.40	15.60	28.76	28.83	45.00	44.00	13.50	286.50	28.80	731.39	44.50	44.54	0.0028	0.09356	0.2189	1412	309.03
11/01/93	PS–P9	11.80	16.30	28.76	28.84	40.00	38.00	14.05	287.05	28.80	731.52	39.00	38.97	0.0024	0.12483	0.2175	1407	306.08
11/01/93	PS–P10	12.10	16.90	28.74	28.83	42.00	41.00	14.50	287.50	28.79	731.14	41.50	41.38	0.0026	0.09706	0.2027	1411	286.07

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
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ENGINEERING–SCIENCE, INC.
FAIRFAX, VA

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* Start Date	* Sampler S/N	* Initial Temp. °C	* Final Temp. °C	* Initial Pressure in. Hg.	* Final Pressure in. Hg.	* Initial Mag. in. H_2O	* Final Mag. in. H_2O	Avg. Temp. °C	Avg. Temp. Kelvin	Avg. Pressure in. Hg.	Avg. Pressure mm. Hg.	Avg. Mag. in. H_2O	Std. Mag. in. H_2O	Sampler Slope	Sampler Intercept	Std. Flow m^3/min.	* Time min.	Total Std. Volume m^3
11/02/93	PS–A1	16.20	20.10	28.82	28.77	43.00	40.00	18.15	291.15	28.80	731.39	41.50	40.88	0.0026	0.10926	0.2155	1411	304.08
11/02/93	PS–A2	15.40	20.50	28.83	28.78	42.00	38.00	17.95	290.95	28.81	731.65	40.00	39.44	0.0027	0.10489	0.2118	1410	298.66
11/02/93	PS–A3	14.70	20.10	28.84	28.78	44.00	42.00	17.40	290.40	28.81	731.77	43.00	42.49	0.0026	0.10546	0.2168	1408	305.28
11/02/93	PS–A4	14.80	18.90	28.86	28.80	44.00	42.00	16.85	289.85	28.83	732.28	43.00	42.60	0.0026	0.10624	0.2167	1408	305.11
11/02/93	PS–A5	16.30	18.30	28.86	28.80	48.00	46.00	17.30	290.30	28.83	732.28	47.00	46.49	0.0026	0.09838	0.2173	1408	306.01
11/02/93	PS–A6	16.30	19.20	28.83	28.80	46.00	44.00	17.75	290.75	28.82	731.90	45.00	44.42	0.0023	0.11236	0.2159	1408	303.98
11/02/93	PS–A7	15.70	20.80	28.85	28.80	44.00	42.00	18.25	291.25	28.83	732.16	43.00	42.38	0.0028	0.09579	0.2159	1408	303.94
11/02/93	PS–A8	15.90	21.50	28.84	28.76	46.00	44.00	18.70	291.70	28.80	731.52	45.00	44.25	0.0026	0.10133	0.2147	1407	302.02
11/02/93	PS–A9	15.90	18.90	28.83	28.75	53.00	48.00	17.40	290.40	28.79	731.27	50.50	49.86	0.0025	0.08841	0.2120	1408	298.46
11/02/93	PS–A10	16.20	18.90	28.83	28.74	41.00	40.00	17.55	290.55	28.79	731.14	40.50	39.96	0.0025	0.11900	0.2184	1409	307.76
11/02/93	PS–A11	15.70	20.10	28.83	28.77	44.00	43.00	17.90	290.90	28.80	731.52	43.50	42.89	0.0027	0.10468	0.2183	1411	308.09
11/02/93	PS–A12	19.00	25.10	28.76	28.68	47.00	44.00	22.05	295.05	28.72	729.49	45.50	44.11	0.0023	0.11495	0.2144	1441	308.92
11/02/93	PS–A13	20.70	24.60	28.75	28.67	44.00	42.00	22.65	295.65	28.71	729.23	43.00	41.59	0.0026	0.09671	0.2069	1441	298.11
11/02/93	PS–P1	18.00	21.90	28.81	28.73	45.00	44.00	19.95	292.95	28.77	730.76	44.50	43.53	0.0027	0.09867	0.2171	1433	311.10
11/02/93	PS–P2	19.20	22.00	28.81	28.73	44.00	42.00	20.60	293.60	28.77	730.76	43.00	41.97	0.0028	0.09892	0.2155	1433	308.81
11/02/93	PS–P3	18.90	19.90	28.83	28.73	44.00	44.00	19.40	292.40	28.78	731.01	44.00	43.13	0.0025	0.11206	0.2195	1433	314.55
11/02/93	PS–P4	20.50	24.40	28.81	28.70	44.00	40.00	22.45	295.45	28.76	730.38	42.00	40.71	0.0027	0.10232	0.2103	1440	302.87
11/02/93	PS–P5	20.30	26.40	28.81	28.70	38.00	37.00	23.35	296.35	28.76	730.38	37.50	36.24	0.0026	0.12044	0.2149	1438	309.00
11/02/93	PS–P6	20.20	24.30	28.80	28.68	42.00	42.00	22.25	295.25	28.74	730.00	42.00	40.72	0.0028	0.10175	0.2167	1264	273.90
11/02/93	PS–P7	20.40	23.70	28.77	28.67	44.00	42.00	22.05	295.05	28.72	729.49	43.00	41.69	0.0026	0.10628	0.2141	1436	307.42
11/02/93	PS–P8	20.60	23.40	28.76	28.64	45.00	43.00	22.00	295.00	28.70	728.98	44.00	42.63	0.0028	0.09356	0.2135	1436	306.56
11/02/93	PS–P9	20.80	23.70	28.76	28.63	40.00	39.00	22.25	295.25	28.70	728.85	39.50	38.23	0.0024	0.12483	0.2158	1435	309.65
11/02/93	PS–P10	20.70	23.40	28.75	28.64	42.00	40.00	22.05	295.05	28.70	728.85	41.00	39.71	0.0026	0.09706	0.1985	1432	284.23

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* Start Date	* Sampler S/N	* Initial Temp. °C	* Final Temp. °C	* Initial Pressure in. Hg.	* Final Pressure in. Hg.	* Initial Mag. in. H_2O	* Final Mag. in. H_2O	Avg. Temp. °C	Avg. Temp. Kelvin	Avg. Pressure in. Hg.	Avg. Pressure mm. Hg.	Avg. Mag. in. H_2O	Std. Mag. in. H_2O	Sampler Slope	Sampler Intercept	Std. Flow m^3/min.	* Time min.	Total Std. Volume m^3
11/04/93	PS–A1	17.30	9.10	28.34	28.78	43.00	42.00	13.20	286.20	28.56	725.42	42.50	42.24	0.0026	0.10926	0.2190	1397	306.00
11/04/93	PS–A2	18.90	8.60	28.33	28.83	42.00	42.00	13.75	286.75	28.58	725.93	42.00	41.69	0.0027	0.10489	0.2179	1397	304.43
11/04/93	PS–A3	18.90	8.70	28.34	28.84	44.00	44.00	13.80	286.80	28.59	726.19	44.00	43.68	0.0026	0.10546	0.2200	1397	307.28
11/04/93	PS–A4	20.50	7.60	28.34	28.85	44.00	47.00	14.05	287.05	28.60	726.31	45.50	45.14	0.0026	0.10624	0.2233	1397	311.94
11/04/93	PS–A5	20.40	4.90	28.35	28.87	48.00	50.00	12.65	285.65	28.61	726.69	49.00	48.88	0.0026	0.09838	0.2235	1397	312.17
11/04/93	PS–A6	20.80	7.60	28.36	28.87	46.00	49.00	14.20	287.20	28.62	726.82	47.50	47.13	0.0023	0.11236	0.2222	1397	310.46
11/04/93	PS–A7	20.80	7.40	28.34	28.86	44.00	44.00	14.10	287.10	28.60	726.44	44.00	43.65	0.0028	0.09579	0.2195	1396	306.37
11/04/93	PS–A8	22.00	7.30	28.33	28.86	46.00	46.00	14.65	287.65	28.60	726.31	46.00	45.54	0.0026	0.10133	0.2180	1394	303.84
11/04/93	PS–A9	23.40	7.30	28.30	28.86	53.00	55.00	15.35	288.35	28.58	725.93	54.00	53.31	0.0025	0.08841	0.2205	1394	307.38
11/04/93	PS–A10	23.20	7.60	28.30	28.85	41.00	42.00	15.40	288.40	28.58	725.81	41.50	40.95	0.0025	0.11900	0.2209	1392	307.48
11/04/93	PS–A11	18.90	7.60	28.34	28.80	44.00	46.00	13.25	286.25	28.57	725.68	45.00	44.73	0.0027	0.10468	0.2232	1396	311.62
11/04/93	PS–A12	26.60	9.10	28.30	28.76	47.00	46.00	17.85	290.85	28.53	724.66	46.50	45.43	0.0023	0.11495	0.2173	1409	306.24
11/04/93	PS–A13	25.30	9.10	28.31	28.78	44.00	44.00	17.20	290.20	28.55	725.04	44.00	43.10	0.0026	0.09671	0.2109	1408	296.94
11/04/93	PS–P1	23.00	9.30	28.33	28.86	45.00	45.00	16.15	289.15	28.60	726.31	45.00	44.32	0.0027	0.09867	0.2193	1387	304.12
11/04/93	PS–P2	25.00	10.50	28.34	28.85	44.00	46.00	17.75	290.75	28.60	726.31	45.00	44.08	0.0028	0.09892	0.2214	1388	307.26
11/04/93	PS–P3	25.90	10.10	28.33	28.85	44.00	44.00	18.00	291.00	28.59	726.19	44.00	43.05	0.0025	0.11206	0.2193	1387	304.18
11/04/93	PS–P4	26.30	9.00	28.33	28.84	44.00	44.00	17.65	290.65	28.59	726.06	44.00	43.10	0.0027	0.10232	0.2167	1387	300.51
11/04/93	PS–P5	28.90	9.00	28.33	28.82	38.00	40.00	18.95	291.95	28.58	725.81	39.00	38.02	0.0026	0.12044	0.2195	1403	307.98
11/04/93	PS–P6	27.90	9.00	28.32	28.83	44.00	50.00	18.45	291.45	28.58	725.81	47.00	45.89	0.0028	0.10175	0.2313	1403	324.53
11/04/93	PS–P7	28.80	9.40	28.33	28.81	44.00	45.00	19.10	292.10	28.57	725.68	44.50	43.35	0.0026	0.10628	0.2184	1400	305.73
11/04/93	PS–P8	30.70	9.30	28.33	28.82	45.00	47.00	20.00	293.00	28.58	725.81	46.00	44.68	0.0028	0.09356	0.2192	1400	306.94
11/04/93	PS–P9	28.90	9.00	28.32	28.84	40.00	40.00	18.95	291.95	28.58	725.93	40.00	39.00	0.0024	0.12483	0.2176	1400	304.65
11/04/93	PS–P10	27.80	9.20	28.32	28.84	42.00	42.00	18.50	291.50	28.58	725.93	42.00	41.01	0.0026	0.09706	0.2018	1401	282.72

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
PS–1 SAMPLER FLOW CALCULATION WORKSHEET

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Start Date *	Sampler S/N *	Initial Temp. °C *	Final Temp. °C *	Initial Pressure in. Hg. *	Final Pressure in. Hg. *	Initial Mag. in. H_2O *	Final Mag. in. H_2O *	Avg. Temp. °C	Avg. Temp. Kelvin	Avg. Pressure in. Hg.	Avg. Pressure mm. Hg.	Avg. Mag. in. H_2O	Std. Mag. in. H_2O	Sampler Slope	Sampler Intercept	Std. Flow m^3/min.	Time min. *	Total Std. Volume m^3
11/06/93	PS–A1	1.00	1.00	28.94	28.76	43.00	42.00	1.00	274.00	28.85	732.79	42.50	44.57	0.0026	0.10926	0.2251	1439	323.91
11/06/93	PS–A2	1.00	1.90	28.95	28.89	42.00	38.00	1.45	274.45	28.92	734.57	40.00	41.98	0.0027	0.10489	0.2187	1433	313.40
11/06/93	PS–A3	1.00	1.50	29.01	28.91	44.00	43.00	1.25	274.25	28.96	735.58	43.50	45.75	0.0026	0.10546	0.2254	1433	322.95
11/06/93	PS–A4	0.60	1.70	29.00	28.93	44.00	42.00	1.15	274.15	28.97	735.71	43.00	45.25	0.0026	0.10624	0.2236	1425	318.58
11/06/93	PS–A5	0.40	1.40	29.07	28.95	48.00	46.00	0.90	273.90	29.01	736.85	47.00	49.58	0.0026	0.09838	0.2252	1424	320.75
11/06/93	PS–A6	0.40	1.00	29.06	28.96	46.00	44.00	0.70	273.70	29.01	736.85	45.00	47.50	0.0023	0.11236	0.2231	1423	317.46
11/06/93	PS–A7	0.40	1.00	29.14	28.96	44.00	44.00	0.70	273.70	29.05	737.87	44.00	46.51	0.0028	0.09579	0.2276	1421	323.36
11/06/93	PS–A8	0.40	1.00	29.14	28.96	46.00	44.00	0.70	273.70	29.05	737.87	45.00	47.57	0.0026	0.10133	0.2232	1420	316.88
11/06/93	PS–A9	1.30	1.00	29.12	28.96	53.00	48.00	1.15	274.15	29.04	737.62	50.50	53.28	0.0025	0.08841	0.2204	1419	312.79
11/06/93	PS–A10	1.30	1.00	29.12	28.96	41.00	39.00	1.15	274.15	29.04	737.62	40.00	42.20	0.0025	0.11900	0.2240	1412	316.28
11/06/93	PS–A11	1.00	1.00	28.93	28.85	44.00	44.00	1.00	274.00	28.89	733.81	44.00	46.20	0.0027	0.10468	0.2271	1433	325.47
11/06/93	PS–A12	1.30	2.00	28.95	28.96	47.00	44.00	1.65	274.65	28.96	735.46	45.50	47.77	0.0023	0.11495	0.2226	1427	317.70
11/06/93	PS–A13	1.20	2.00	29.06	28.74	44.00	42.00	1.60	274.60	28.90	734.06	43.00	45.07	0.0026	0.09671	0.2161	1426	308.17
11/06/93	PS–P1	1.00	5.00	29.05	28.81	45.00	42.00	3.00	276.00	28.93	734.82	43.50	45.41	0.0027	0.09867	0.2222	1429	317.57
11/06/93	PS–P2	0.40	5.00	29.11	28.84	44.00	41.00	2.70	275.70	28.98	735.97	42.50	44.48	0.0028	0.09892	0.2225	1427	317.51
11/06/93	PS–P3	0.60	4.60	29.16	28.87	44.00	42.00	2.60	275.60	29.02	736.98	43.00	45.09	0.0025	0.11206	0.2244	1427	320.18
11/06/93	PS–P4	0.90	3.50	29.12	28.87	44.00	45.00	2.20	275.20	29.00	736.47	44.50	46.70	0.0027	0.10232	0.2262	1425	322.34
11/06/93	PS–P5	1.70	4.60	29.07	28.87	38.00	38.00	3.15	276.15	28.97	735.84	38.00	39.70	0.0026	0.12044	0.2239	1424	318.85
11/06/93	PS–P6	3.00	4.70	29.06	28.89	44.00	44.00	3.85	276.85	28.98	735.97	44.00	45.86	0.0028	0.10175	0.2312	1424	329.26
11/06/93	PS–P7	1.40	4.50	29.05	28.84	44.00	43.00	2.95	275.95	28.95	735.20	43.50	45.44	0.0026	0.10628	0.2238	1431	320.25
11/06/93	PS–P8	1.70	4.50	29.07	28.80	45.00	40.00	3.10	276.10	28.94	734.95	42.50	44.36	0.0028	0.09356	0.2183	1427	311.57
11/06/93	PS–P9	1.10	3.50	29.08	28.80	40.00	38.00	2.30	275.30	28.94	735.08	39.00	40.83	0.0024	0.12483	0.2220	1427	316.75
11/06/93	PS–P10	1.30	3.80	29.06	28.83	42.00	40.00	2.55	275.55	28.95	735.20	41.00	42.89	0.0026	0.09706	0.2066	1421	293.59

TINKER AIR FORCE BASE – OKLAHOMA CITY, OKLAHOMA
PS–1 SAMPLER FLOW CALCULATION WORKSHEET

ENGINEERING–SCIENCE, INC.
FAIRFAX, VA

* data entry from field data sheets

Start Date *	Sampler S/N *	Initial Temp. °C *	Final Temp. °C *	Initial Pressure in. Hg. *	Final Pressure in. Hg. *	Initial Mag. in. H_2O *	Final Mag. in. H_2O *	Avg. Temp. °C	Avg. Temp. Kelvin	Avg. Pressure in. Hg.	Avg. Pressure mm. Hg.	Avg. Mag. in. H_2O	Std. Mag. in. H_2O	Sampler Slope	Sampler Intercept	Std. Flow m^3/min.	Time min. *	Total Std. Volume m^3
11/08/93	PS–A1	12.00	11.30	28.79	28.96	43.00	41.00	11.65	284.65	28.88	733.43	42.00	42.43	0.0026	0.10926	0.2195	1454	319.22
11/08/93	PS–A2	12.00	11.30	28.81	29.00	42.00	40.00	11.65	284.65	28.91	734.19	41.00	41.47	0.0027	0.10489	0.2173	1458	316.83
11/08/93	PS–A3	12.00	10.00	28.82	29.60	44.00	42.00	11.00	284.00	29.21	741.93	43.00	44.05	0.0026	0.10546	0.2209	1458	322.09
11/08/93	PS–A4	12.00	10.00	28.83	29.00	44.00	41.00	11.00	284.00	28.92	734.44	42.50	43.10	0.0026	0.10624	0.2180	1465	319.35
11/08/93	PS–A5	12.00	40.00	28.83	29.00	48.00	47.00	26.00	299.00	28.92	734.44	47.50	45.75	0.0026	0.09838	0.2154	1465	315.63
11/08/93	PS–A6	12.00	10.00	28.83	29.00	46.00	46.00	11.00	284.00	28.92	734.44	46.00	46.64	0.0023	0.11236	0.2211	1466	324.12
11/08/93	PS–A7	12.00	10.00	28.82	29.00	44.00	43.00	11.00	284.00	28.91	734.31	43.50	44.10	0.0028	0.09579	0.2207	1461	322.49
11/08/93	PS–A8	12.00	11.00	28.81	29.00	46.00	46.00	11.50	284.50	28.91	734.19	46.00	46.55	0.0026	0.10133	0.2205	1487	327.94
11/08/93	PS–A9	12.00	11.00	28.79	29.00	53.00	53.00	11.50	284.50	28.90	733.93	53.00	53.61	0.0025	0.08841	0.2213		0.00
11/08/93	PS–A10	12.00	12.00	28.79	29.00	41.00	40.00	12.00	285.00	28.90	733.93	40.50	40.89	0.0025	0.11900	0.2207	1495	330.02
11/08/93	PS–A11	12.00	10.00	28.81	28.98	44.00	45.00	11.00	284.00	28.90	733.93	44.50	45.09	0.0027	0.10468	0.2242	1457	326.63
11/08/93	PS–A12	12.00	10.00	28.78	29.00	47.00	47.00	11.00	284.00	28.89	733.81	47.00	47.62	0.0023	0.11495	0.2223	1480	328.98
11/08/93	PS–A13	12.00	10.00	28.78	29.00	44.00	44.00	11.00	284.00	28.89	733.81	44.00	44.58	0.0026	0.09671	0.2148	1483	318.55
11/08/93	PS–P1	12.00	12.00	28.79	29.00	45.00	44.00	12.00	285.00	28.90	733.93	44.50	44.93	0.0027	0.09867	0.2209	1499	331.17
11/08/93	PS–P2	12.00	11.00	28.79	29.00	44.00	41.00	11.50	284.50	28.90	733.93	42.50	42.99	0.0028	0.09892	0.2183	1500	327.52
11/08/93	PS–P3	12.00	11.00	28.79	29.00	44.00	43.00	11.50	284.50	28.90	733.93	43.50	44.00	0.0025	0.11206	0.2217	1503	333.17
11/08/93	PS–P4	12.00	11.00	28.79	29.00	44.00	43.00	11.50	284.50	28.90	733.93	43.50	44.00	0.0027	0.10232	0.2191	1505	329.68
11/08/93	PS–P5	12.00	11.00	28.80	29.00	38.00	38.00	11.50	284.50	28.90	734.06	38.00	38.44	0.0026	0.12044	0.2206	1499	330.72
11/08/93	PS–P6	12.00	11.00	28.80	29.00	44.00	43.00	11.50	284.50	28.90	734.06	43.50	44.01	0.0028	0.10175	0.2260	1507	340.56
11/08/93	PS–P7	12.00	11.00	28.80	29.00	44.00	42.00	11.50	284.50	28.90	734.06	43.00	43.50	0.0026	0.10628	0.2188	1510	330.35
11/08/93	PS–P8	12.00	11.00	28.80	29.00	45.00	45.00	11.50	284.50	28.90	734.06	45.00	45.53	0.0028	0.09356	0.2216	1513	335.31
11/08/93	PS–P9	12.00	12.00	28.80	29.00	40.00	38.00	12.00	285.00	28.90	734.06	39.00	39.39	0.0024	0.12483	0.2185	1519	331.95
11/08/93	PS–P10	12.00	12.00	28.80	29.00	42.00	40.00	12.00	285.00	28.90	734.06	41.00	41.41	0.0026	0.09706	0.2028	1523	308.88

Appendix G

Average, Maximum, and Minimum Sample Results

			E Cavg	I24.1 Cavg	I24.10 Cavg	I24.11 Cavg	I24.12 Cavg	I24.19 Cavg	I24.2 Cavg	I24.3 Cavg	I24.4 Cavg	I24.5 Cavg	I24.6 Cavg	I24.7 Cavg	I24.8 Cavg
BNA	A	bis(2-ETHYLHEXYL) PHTHALATE	11109.4					405.25	3374.2	2563.333333		3187			
		PENTACHLOROPHENOL	348.428571												
		PHENOL	585.5												
	B	bis(2-ETHYLHEXYL) PHTHALATE		111	58.4	88.133333	67.633333	123.522222	52.66	90.9	60.7	65.3		115.8	52
		PENTACHLOROPHENOL				213.333333	127.5	246.5	236.833333						172.5
		PHENOL				288.333333	348	333.25	961.75						349
	C	bis(2-ETHYLHEXYL) PHTHALATE		90.1	52.5	83	65.375	111.25	45.65	120.95		67.2	46.8	115	66.5
		PENTACHLOROPHENOL						211.666667	141.86						
		PHENOL						348	352.4						
Metals	A	ARSENIC	3.402857						2.855	4.33		2.34			
		BARIUM	397.1875					304.75	240.6	242.5		238.5			
		CADMIUM	13.973125					20.6575	25.196	5.911667		2.555			
		CHROMIUM, TOTAL	192.14375					822.025	414.8	145.366667		65.2			
		LEAD	47.1					98.925	50.46	61.2		13.05			
		MERCURY	0.269933					0.1605	0.3635	0.105		0.167			
		NICKEL	43.8075					425.25	514.14	194.533333		24.8			
		SELENIUM	1.3246												
		SILVER	2.7034					8.95	16.072	6.296667		1.52			
		ZINC	104.2625					42.9	110.18	205.366667		43.9			
	B	ARSENIC		0.976	2.45	4.576111	2.618	2.667273	3.455714	0.789	2.625	3.13	3.67	2.42	3.5325
		BARIUM		41.1	196.48	217.433333	420	418.090909	323.311111	63.3	170	386.55	60.7	295.5	304.76
		CADMIUM			0.546	2.291667	2.1245		2.2			0.392			0.636
		CHROMIUM, TOTAL		4.45	13.666	19.356667	20.31	66.079091	33.011111	6.61	11.33	21.225	13.3	21.325	10.874
		LEAD		1.41	3.352	7.02	4.245714	7.373636	4.020778	1.805	3.64	2.625	4.64	4.32	4.042
		MERCURY													
		NICKEL		2.49	8.382	10.891111	19.442857	11.553636	14.083333	2.195	10.68	11.055	9.29	5.525	7.942
		SELENIUM						0.6252	0.715			0.812	0.648		
		SILVER			0.2175	0.449		0.1175	0.117						
		ZINC		4.23	10.604	16.731111	12.5	17.609091	14.301111	20.82	13.65	14.61	12.6	10.18	11.082
	C	ARSENIC		2.43	2.71	4.34	3.896	2.39625	5.473333	1.185		3.075	1.63	1.12	3.1375
		BARIUM		4710	138.34	31.8	456.92	283.97	402	86.4		40.25	37.4	270	164.5
		CADMIUM			1.92		0.704								0.7295
		CHROMIUM, TOTAL		4.16	10.06	3.96	8.808	9.5578	17.283333	4.6		12.96	10.095	6.41	8.2475
		LEAD		0.809	2.7264	2.81	3.6638	4.3669	9.543333	0.944		3.805	3.475	7.87	3.6025
		MERCURY							0.114						
		NICKEL		5.08	5.404	2.68	7.15	8.5	21.916667	6.98		12.965	7.6	2.14	6.135
		SELENIUM						0.713667	0.712						
		SILVER			0.24										
		ZINC		7.16	6.734	3.45	9.84	10.751111	28.15	6.085		16.2	10.4	5.06	7.1925

			E Cavg	I24.1 Cavg	I24.10 Cavg	I24.11 Cavg	I24.12 Cavg	I24.19 Cavg	I24.2 Cavg	I24.3 Cavg	I24.4 Cavg	I24.5 Cavg	I24.6 Cavg	I24.7 Cavg	I24.8 Cavg
VOA	A	ACETONE	346.4375					42	35.333333	12		33			
		METHYLENE CHLORIDE	13.6						9.9	9.35		27.5			
		TETRACHLOROETHYLENE(PCE)	36.933333					2.4	4.475	4.65		12.75			
		TOLUENE	2297.06							170		3.1			
	B	ACETONE			34.4	34	38.2	71.5	515.888889		2590	223	26	62	28
		METHYLENE CHLORIDE		22	7.275	14.2625	9.15	10.666667	15.3875		60	19.8	10	22	10
		TETRACHLOROETHYLENE(PCE)			6.15		33	68	2.075			3.8			
		TOLUENE			1.2		1.566667	7.4	118.342857		7	3.3	1.1		2.3
	C	ACETONE			38.5	41	52.2	119	46.95	35		27	47.5	270	66
		METHYLENE CHLORIDE		22	10.125	4.4	10.96	9.35	3.48			12.5	9.25		10.4
		TETRACHLOROETHYLENE(PCE)			3.666667	1.6	1.3	6.2							
		TOLUENE			1.9		1.633333		1.566667			1.7			

			I24.9 Cavg	RCP1 Cavg	S32.1 Cavg	S32.2 Cavg	S32.3 Cavg	S32.4 Cavg	S32.5 Cavg	S32.6 Cavg	S32.8 Cavg
BNA	A	bis(2-ETHYLHEXYL) PHTHALATE	46	1975	220		235	37	51	114	251.08
		PENTACHLOROPHENOL							177.333333	200	
		PHENOL	302						308.666667	410	
	B	bis(2-ETHYLHEXYL) PHTHALATE		740.75	81.475	66.466667	97.075	122.8	91.333333		100.528571
		PENTACHLOROPHENOL		107.5					160.5		
		PHENOL		448.5					244.5		
	C	bis(2-ETHYLHEXYL) PHTHALATE			120.5	57.4	135	58.333333			67.433333
		PENTACHLOROPHENOL									
		PHENOL									205
Metals	A	ARSENIC	3	1.805	2.97		4.15	3.26	3.816667	2.47	2.01
		BARIUM	397	303.5	252		286	374	219.666667	258	311.5
		CADMIUM		36.95	2.76		2.13	0.842	0.989	4.83	6.914
		CHROMIUM, TOTAL	26.6	156.95	92.4		52.2	19.2	15.1	118	601.216667
		LEAD	7.71	69.6	25		12.4	5.37	5.106667	32.2	25.983333
		MERCURY		0.1445	0.297				0.123		0.2372
		NICKEL	13.9	81.45	25.6		35	13.5	12.263333	24.6	44.75
		SELENIUM	0.535						0.556		0.594
		SILVER	0.214	4.53	1.91		1.06		0.556	2.14	3.646
		ZINC	17.9	56.5	94.1		31.9	17.9	15.766667	33.1	33.883333
	B	ARSENIC		2.5225	3.245	9.576667	5.032	6.253333	3.2		2.430909
		BARIUM		477.25	275.25	298.666667	80.64	199.257143	171.8		329.246667
		CADMIUM		7.975			0.764	0.55275	1.523333		17.517
		CHROMIUM, TOTAL		123.825	23.225	17.556667	26.5	15.992857	13.16		219.352
		LEAD		11.8325	7.965	5.323333	8.366	4.938571	5.8525		3.654
		MERCURY		0.191							
		NICKEL		57.425	15.4925	21.223333	20.92	12.09	9.4575		40.016667
		SELENIUM		0.736	0.584	0.561	0.788667		0.868		0.698
		SILVER		1.524					0.7195		0.4045
		ZINC		24.25	22.65	65.933333	44.84	15.49	12.1175		16.667333
	C	ARSENIC	3.92		1.31	1.17	1.915	1.95			3.558947
		BARIUM	116.5		168.825	40.5	63.9	40.05			51.467857
		CADMIUM				102	0.773	0.494333			
		CHROMIUM, TOTAL	8.55		8.1575	27.485	10.63	6.5175			13.812857
		LEAD	3.455		3.1625	3.73	3.345	1.08625			2.512429
		MERCURY									
		NICKEL	4.46		7.0925	51.255	8.07	4.7025			5.68
		SELENIUM						0.576			0.6054
		SILVER									0.117
		ZINC	5.885		7.9425	56.3	10.34	5.4475			5.227037

			I24.9 Cavg	RCP1 Cavg	S32.1 Cavg	S32.2 Cavg	S32.3 Cavg	S32.4 Cavg	S32.5 Cavg	S32.6 Cavg	S32.8 Cavg
VOA	A	ACETONE	16	6600				58	93		70.666667
		METHYLENE CHLORIDE	1.2	190	9.1		10	14	6.25		15.3
		TETRACHLOROETHYLENE(PCE)	10	2.9	7.9		7.8	3.7	3.7		2.2
		TOLUENE	5.8	24000				1.9	3.9		2.65
	B	ACETONE		392.5	40.333333	39.666667	80.6	88.571429	87.5		47.733333
		METHYLENE CHLORIDE			22.5	11.233333	9.3	15.533333	16.5		20.738462
		TETRACHLOROETHYLENE(PCE)							1.4		
		TOLUENE		627.5	1.4		1.15	1.8	2.1		3.266667
	C	ACETONE	57		48.75	91	563.5	61.25			102.571429
		METHYLENE CHLORIDE	13		17.75	7.4	20.4	21			17.204
		TETRACHLOROETHYLENE(PCE)						1.6			1.766667
		TOLUENE			1.4			2.05			2.714286

			E Cmax	I24.1 Cmax	I24.10 Cmax	I24.11 Cmax	I24.12 Cmax	I24.19 Cmax	I24.2 Cmax	I24.3 Cmax	I24.4 Cmax	I24.5 Cmax	I24.6 Cmax	I24.7 Cmax	I24.8 Cmax	I24.9 Cmax	RCP1 Cmax	S32.1 Cmax	S32.2 Cmax	S32.3 Cmax
BNA	A	bis(2-ETHYLHEXYL) PHTHALATE	103000					611	8850	4620		6060				46	2470	220		235
		PENTACHLOROPHENOL	484																	
		PHENOL	875													302				
	B	bis(2-ETHYLHEXYL) PHTHALATE		111	89	230	100	248	79	95.1	65.4	65.3		166	64		2130	112	79.4	224
		PENTACHLOROPHENOL				310	216	283	472						216		120			
		PHENOL				310	348	375	4210						356		912			
	C	bis(2-ETHYLHEXYL) PHTHALATE		90.1	55	83	74.5	200	61	167		67.2	56.2	115	89			265	57.4	210
		PENTACHLOROPHENOL						233	178											
		PHENOL						355	375											
Metals	A	ARSENIC	5.91						4.08	7.66		3.34				3	2.31	2.97		4.15
		BARIUM	611					538	317	354		300				397	334	252		286
		CADMIUM	44.7					60.6	49.2	8.92		3.23					62.8	2.76		2.13
		CHROMIUM, TOTAL	464					2650	945	212		85.3				26.6	239	92.4		52.2
		LEAD	112					215	104	80.7		14.5				7.71	98.6	25		12.4
		MERCURY	0.602					0.214	0.982	0.105		0.167					0.159	0.297		
		NICKEL	90					562	1510	335		26.2				13.9	123	25.6		35
		SELENIUM	2.07													0.535				
		SILVER	5.17					16.6	26.8	9.98		2				0.214	7.56	1.91		1.06
		ZINC	374					55.8	262	494		46.1				17.9	90.9	94.1		31.9
	B	ARSENIC		0.976	4	12.3	4.61	3.1	6.39	0.789	3.41	3.13	3.67	2.68	5.28		3.31	3.96	13.1	10.6
		BARIUM		41.1	288	390	920	823	893	67.9	224	695	60.7	344	678		632	430	324	95.3
		CADMIUM			0.546	3.31	3.81		2.69			0.392			0.889		13.8			0.764
		CHROMIUM, TOTAL		4.45	30	41.8	78.8	553	106	7.81	12.7	34.6	13.3	36.5	14.3		343	33.5	23.8	41.5
		LEAD		1.41	4.79	13.4	5.72	9.87	7.84	1.92	4.55	4.18	4.64	5.94	6.57		19.8	9.38	5.4	11.9
		MERCURY															0.191			
		NICKEL		2.49	12.4	16.1	79.8	22.7	24.3	2.59	14.6	18.9	9.29	6.41	10.5		172	19.1	29.1	32.6
		SELENIUM						0.686	0.844			0.812	0.648				0.736	0.584	0.561	0.889
		SILVER			0.223	0.787		0.118	0.117								2.21			
		ZINC		4.23	16.6	30	18.2	23	23.3	37.1	17.1	25.3	12.6	14.1	15.6		39.2	26.3	120	105
	C	ARSENIC		2.43	3.36	4.34	7.72	4.25	9.98	1.36		4.06	1.74	1.12	4.13	3.92		1.31	1.17	2.65
		BARIUM		4710	393	31.8	827	703	1270	138		48.6	45.8	270	240	132		470	53.6	66.7
		CADMIUM			1.92		0.704								0.781				102	0.773
		CHROMIUM, TOTAL		4.16	29.4	3.96	10.4	17.2	22	5.79		17	10.4	6.41	9.08	9.74		9.42	50.6	14.8
		LEAD		0.809	9.11	2.81	8.91	10.2	12.9	1.13		5.85	3.59	7.87	4.35	5.82		4.33	3.73	4.75
		MERCURY							0.114											
		NICKEL		5.08	13.3	2.68	10.1	15.7	26.2	10.3		16.9	7.7	2.14	9.15	5.43		8.55	98.8	8.17
		SELENIUM						0.848	0.765											
		SILVER			0.24															
		ZINC		7.16	20.5	3.45	12.7	18.1	39.5	8.51		22.6	10.6	5.06	9.73	6.16		9.42	109	12.6

			E Cmax	I24.1 Cmax	I24.10 Cmax	I24.11 Cmax	I24.12 Cmax	I24.19 Cmax	I24.2 Cmax	I24.3 Cmax	I24.4 Cmax	I24.5 Cmax	I24.6 Cmax	I24.7 Cmax	I24.8 Cmax	I24.9 Cmax	RCP1 Cmax	S32.1 Cmax	S32.2 Cmax	S32.3 Cmax
VOA	A	ACETONE	3000					42	63	12		36				16	6600			
		METHYLENE CHLORIDE	22						16	10		40				1.2	190	9.1		10
		TETRACHLOROETHYLENE(PCE)	62					3.4	9.2	7.3		18				10	2.9	7.9		7.8
		TOLUENE	11000							170		3.1				5.8	24000			
	B	ACETONE			69	62	58	160	2900		4200	390	26	62	42		670	56	59	190
		METHYLENE CHLORIDE		22	12	23	15	12	80		60	30	10	22	13			32	13	13
		TETRACHLOROETHYLENE(PCE)			7.4		33	68	2.9			3.8								
		TOLUENE			1.2		1.7	7.4	810		7	3.3	1.1		2.3		1200	1.4		1.2
	C	ACETONE			48	41	92	540	150	35		28	58	270	110	63		73	150	1100
		METHYLENE CHLORIDE		22	16	4.4	16	12	5.6			13	10		12	13		24	7.5	32
		TETRACHLOROETHYLENE(PCE)			5.6	1.6	1.3	6.2												
		TOLUENE			2		1.9		1.9			1.9						1.4		

			S32.4 Cmax	S32.5 Cmax	S32.6 Cmax	S32.8 Cmax
BNA	A	bis(2-ETHYLHEXYL) PHTHALATE	37	66	114	578
		PENTACHLOROPHENOL		210	200	
		PHENOL		340	410	
	B	bis(2-ETHYLHEXYL) PHTHALATE	270	99		160
		PENTACHLOROPHENOL		250		
		PHENOL		280		
	C	bis(2-ETHYLHEXYL) PHTHALATE	69			150
		PENTACHLOROPHENOL				
		PHENOL				205
Metals	A	ARSENIC	3.26	4.98	2.47	3.04
		BARIUM	374	285	258	428
		CADMIUM	0.842	0.989	4.83	19.4
		CHROMIUM, TOTAL	19.2	17.4	118	3050
		LEAD	5.37	5.98	32.2	48.1
		MERCURY		0.123		0.415
		NICKEL	13.5	14.7	24.6	63.3
		SELENIUM		0.556		0.638
		SILVER		0.556	2.14	8.74
		ZINC	17.9	17.4	33.1	41.6
	B	ARSENIC	20.2	4.52		4.3
		BARIUM	371	357		2240
		CADMIUM	0.893	1.79		50.5
		CHROMIUM, TOTAL	27.7	21.6		3000
		LEAD	11.8	8.58		7.39
		MERCURY				
		NICKEL	21.7	16.8		285
		SELENIUM		0.868		0.826
		SILVER		1.33		0.46
		ZINC	27	23.3		52.3
	C	ARSENIC	1.96			7.59
		BARIUM	64			136
		CADMIUM	0.576			
		CHROMIUM, TOTAL	13.8			99.8
		LEAD	1.6			8.52
		MERCURY				
		NICKEL	5.76			15.1
		SELENIUM	0.576			0.692
		SILVER				0.117
		ZINC	6.91			10.9

			S32.4 Cmax	S32.5 Cmax	S32.6 Cmax	S32.8 Cmax
VOA	A	ACETONE	58	130		110
		METHYLENE CHLORIDE	14	6.3		55
		TETRACHLOROETHYLENE(PCE)	3.7	6.1		2.6
		TOLUENE	1.9	4.4		4.2
	B	ACETONE	240	120		100
		METHYLENE CHLORIDE	31	28		56
		TETRACHLOROETHYLENE(PCE)		1.4		
		TOLUENE	1.8	2.1		4.5
	C	ACETONE	76			1100
		METHYLENE CHLORIDE	31			56
		TETRACHLOROETHYLENE(PCE)	1.6			2.8
		TOLUENE	2.3			4.6

			E Cmin	I24.1 Cmin	I24.10 Cmin	I24.11 Cmin	I24.12 Cmin	I24.19 Cmin	I24.2 Cmin	I24.3 Cmin	I24.4 Cmin	I24.5 Cmin	I24.6 Cmin	I24.7 Cmin	I24.8 Cmin	I24.9 Cmin	RCP1 Cmin	S32.1 Cmin	S32.2 Cmin	S32.3 Cmin
BNA	A	bis(2-ETHYLHEXYL) PHTHALATE	91					197	203	690		314				46	1480	220		235
		PENTACHLOROPHENOL	219																	
		PHENOL	419													302				
	B	bis(2-ETHYLHEXYL) PHTHALATE		111	41.2	49	41	39.1	42	86.7	56	65.3		65.6	40		67	61.7	52.5	46
		PENTACHLOROPHENOL				140	39	204	153						129		95			
		PHENOL				260	348	295	207						342		165			
	C	bis(2-ETHYLHEXYL) PHTHALATE		90.1	50	83	61	44.9	36	74.9		67.2	37.4	115	44			39.7	57.4	60
		PENTACHLOROPHENOL						176	77.3											
		PHENOL						344	334											
Metals	A	ARSENIC	1.44						1.63	1.56		1.34				3	1.3	2.97		4.15
		BARIUM	158					196	171	69.5		177				397	273	252		286
		CADMIUM	2.58					2.89	4.08	0.935		1.88					11.1	2.76		2.13
		CHROMIUM, TOTAL	29.7					78.6	120	44.1		45.1				26.6	74.9	92.4		52.2
		LEAD	11.9					13.4	21	31.6		11.6				7.71	40.6	25		12.4
		MERCURY	0.151					0.107	0.113	0.105		0.167					0.13	0.297		
		NICKEL	8.52					304	39.7	36.6		23.4				13.9	39.9	25.6		35
		SELENIUM	0.583													0.535				
		SILVER	0.424					2.14	5.33	1.04		1.04				0.214	1.5	1.91		1.06
		ZINC	12					24.9	39.7	51.1		41.7				17.9	22.1	94.1		31.9
	B	ARSENIC		0.976	1.59	0.955	1.65	2.03	1.41	0.789	1.84	3.13	3.67	2.16	2.86		1.68	2.59	2.83	1.62
		BARIUM		41.1	99.4	56.5	229	204	65.8	58.7	116	78.1	60.7	247	71.8		334	215	272	58.6
		CADMIUM			0.546	1.07	0.439		1.71			0.392			0.383		2.15			0.764
		CHROMIUM, TOTAL		4.45	4.49	3.29	6.27	7.57	10.8	5.41	9.96	7.85	13.3	6.15	2.77		21.8	13.2	8.37	11.5
		LEAD		1.41	1.91	2.12	2.91	6.15	0.907	1.69	2.73	1.07	4.64	2.7	1.17		8.62	6.54	5.27	4.64
		MERCURY															0.191			
		NICKEL		2.49	3.37	2.65	8.15	6.89	3.74	1.8	6.76	3.21	9.29	4.64	3.3		13.1	8.87	5.77	12.1
		SELENIUM						0.584	0.586			0.812	0.648				0.736	0.584	0.561	0.696
		SILVER			0.212	0.108		0.117	0.117								0.838			
		ZINC		4.23	5.05	3.5	10.4	11.6	3.29	4.54	10.2	3.92	12.6	6.26	3.51		16.4	18.9	37.6	14.4
	C	ARSENIC		2.43	2.06	4.34	1.42	1.58	4.17	1.01		2.09	1.52	1.12	2.36	3.92		1.31	1.17	1.18
		BARIUM		4710	28.2	31.8	49.6	46.2	81.2	34.8		31.9	29	270	41	101		53.2	27.4	61.1
		CADMIUM			1.92		0.704								0.678				102	0.773
		CHROMIUM, TOTAL		4.16	2.52	3.96	5.09	0.778	12.5	3.41		8.92	9.79	6.41	7.3	7.36		7.33	4.37	6.46
		LEAD		0.809	0.722	2.81	0.829	0.415	4.53	0.758		1.76	3.36	7.87	3.01	1.09		2.3	3.73	1.94
		MERCURY							0.114											
		NICKEL		5.08	1.8	2.68	5.09	3.18	18.6	3.66		9.03	7.5	2.14	2.71	3.49		5.9	3.71	7.97
		SELENIUM						0.58	0.659											
		SILVER			0.24															
		ZINC		7.16	2.04	3.45	5.8	2.83	24.5	3.66		9.8	10.2	5.06	3.89	5.61		6.68	3.6	8.08

			E	I24.1	I24.10	I24.11	I24.12	I24.19	I24.2	I24.3	I24.4	I24.5	I24.6	I24.7	I24.8	I24.9	RCP1	S32.1	S32.2	S32.3
			Cmin	Cmin	Cmin	Cmin	Cmin	Cmin	Cmin	Cmin	Cmin	Cmin	Cmin	Cmin	Cmin	Cmin	Cmin	Cmin	Cmin	Cmin
VOA	A	ACETONE	15					42	13	12		30				16	6600			
		METHYLENE CHLORIDE	1.4						1.6	8.7		15				1.2	190	9.1		10
		TETRACHLOROETHYLENE(PCE)	6.8					1.4	1.1	2		7.5				10	2.9	7.9		7.8
		TOLUENE	2.3							170		3.1				5.8	24000			
	B	ACETONE			11	17	29	14	38		980	56	26	62	21		150	19	24	35
		METHYLENE CHLORIDE		22	3.3	4.5	2.5	6	1.2		60	9.6	10	22	7			11	8.7	4
		TETRACHLOROETHYLENE(PCE)			4.9		33	68	1.3			3.8								
		TOLUENE			1.2		1.4	7.4	1.4		7	3.3	1.1		2.3		55	1.4		1.1
	C	ACETONE			26	41	12	16	7.7	35		26	37	270	34	51		24	32	27
		METHYLENE CHLORIDE		22	4.3	4.4	3.8	7.9	1.5			12	8.5		9.2	13		10	7.3	8.8
		TETRACHLOROETHYLENE(PCE)			1.3	1.6	1.3	6.2												
		TOLUENE			1.8		1.3		1.2			1.5						1.4		

			S32.4 Cmin	S32.5 Cmin	S32.6 Cmin	S32.8 Cmin
BNA	A	bis(2-ETHYLHEXYL) PHTHALATE	37	41	114	72.7
		PENTACHLOROPHENOL		151	200	
		PHENOL		260	410	
	B	bis(2-ETHYLHEXYL) PHTHALATE	46	85		49.7
		PENTACHLOROPHENOL		102		
		PHENOL		168		
	C	bis(2-ETHYLHEXYL) PHTHALATE	49			41.7
		PENTACHLOROPHENOL				
		PHENOL				205
Metals	A	ARSENIC	3.26	2.44	2.47	1.14
		BARIUM	374	134	258	199
		CADMIUM	0.842	0.989	4.83	1.66
		CHROMIUM, TOTAL	19.2	12.3	118	23.1
		LEAD	5.37	3.78	32.2	4.4
		MERCURY		0.123		0.117
		NICKEL	13.5	7.89	24.6	11.1
		SELENIUM		0.556		0.55
		SILVER		0.556	2.14	1.06
		ZINC	17.9	12.8	33.1	14.4
	B	ARSENIC	2.41	1.61		1.23
		BARIUM	34.2	38.2		34.8
		CADMIUM	0.43	1.09		0.491
		CHROMIUM, TOTAL	5.6	6.44		5.33
		LEAD	2.15	2.35		1.21
		MERCURY				
		NICKEL	5.27	4.96		4.48
		SELENIUM		0.868		0.576
		SILVER		0.109		0.349
		ZINC	5.06	6.44		4.48
	C	ARSENIC	1.94			1.19
		BARIUM	22.2			17.4
		CADMIUM	0.451			
		CHROMIUM, TOTAL	2.28			2.06
		LEAD	0.456			0.355
		MERCURY				
		NICKEL	3.88			2.74
		SELENIUM	0.576			0.553
		SILVER				0.117
		ZINC	3.54			2.86

			S32.4 Cmin	S32.5 Cmin	S32.6 Cmin	S32.8 Cmin
VOA	A	ACETONE	58	56		16
		METHYLENE CHLORIDE	14	6.2		1.7
		TETRACHLOROETHYLENE(PCE)	3.7	1.3		1.8
		TOLUENE	1.9	3.4		1.1
	B	ACETONE	30	55		12
		METHYLENE CHLORIDE	6	5		9.3
		TETRACHLOROETHYLENE(PCE)		1.4		
		TOLUENE	1.8	2.1		1.1
	C	ACETONE	34			21
		METHYLENE CHLORIDE	10			3
		TETRACHLOROETHYLENE(PCE)	1.6			1.3
		TOLUENE	1.8			1.2

Appendix I

Soil Gas Data Sheets

FORM 8

Analysis Run Log for Soil Gas VOC by GC PID/FID

GC Log Number	Sample ID			TIME
09239301	Blank			0832
09239302	Check STD	3.0		0856
09239304	SWT	32.4	SG1	1637
09239305	SWT	32.4	SG1D	1710
09239306	SWT	32.4	SG2	1733
09239307	SWT	32.4	SG2D	1755
09239308	SWT	32.4	SG3	1854
09239309	SWT	32.4	SG4	1923
09239310	SWT	32.4	SG3X	~~2012~~ 1945
09239311	Blank			2012
09239312	Check STD	3.0		2033
09249301	Blank			
09249302	Check STD	3.0		
09249303	SWT	32.4	SG5	1106
09249304	SWT	32.4	SG6	1142
09249305	SWT	32.4	SG7	1211
09249306	SWT	32.4	SG8	1247
09249307	SWT	32.4	SG9	1317
09249308	SWT	32.4	SG10	1347
09249309	SWT	32.4	SG5D	1425
09249310	SWT	32.4	SG11	1648
09249311	SWT	32.4	SG12	1710
09249312	SWT	32.2	SG1	1731
09249313	SWT	32.2	SG1D	1800
09249314	SWT	32.2	SG2	1832
09249315	Blank			1858
C:\STD\09249305	Check STD	2.0		1925
09259301	Blank			0954
09259302	Check STD	2.0		1042
09259303	SWT	32.2	SG1	1133
09259304	SWT	32.2	SG2	1205

FORM 8

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Analysis Run Log for Soil Gas VOC by GC PID/FID

GC Log Number	Sample ID	TIME	
09259305	SWT 32.6 SG1	1417	
09259306	SWT 32.6 SG2	1444	
09259307	SWT 32.6 SG51	1511	
09259308	SWT 32.5 SG2	1533	
09259309	IWT 24.11 SG5	1558	
09259310	Blank	1819	
09259311	Check STD	1840	
09279301	Blank	0948	
09279302	Check STD		
09279303	SWT 32.5 SG3	1119	
09279304	IWT 24.11 SG6	1152	
09279305	RCP1 SG2	1403	TCE ~~TCE~~
09279306	RCP1 SG1	1439	BTEX ~~BTEX~~
09279307	RCP1 SG1 1:10	1508	BTEX
09279308	RCP1 SG2 1:5	1543	
09279309	RCP1 SG3	1630	TCE ~~TCE~~
09279310	RCP1 SG4 HS	1653	BTEX & TCE ~~BTEX~~
09279311	SWT 32.1 SG1	1824	
09279312	SWT 32.1 SG2	1858	
09279313	SWT 32.1 SG3	1920	
09279314	SWT 32.1 SG3 Dup	1948	
09279315	Blank Amb. Air	2011	
09279316	Check STD 5 ppm	2033	
09289301	Blank	0803	
09289302	Check STD	0835	
09289303	RCP1 SG2 1:5	0954	
09289304	VOA		
09289305	RCP1 SG4 HS 1:10	1110	BTEX
09289306	IWT 24.19 SG9	1445	BTEX & TCE
09289307	IWT 24.19 SG9 1:10	1520	BTEX & TCE
09289308	IWT 24.19 SG9 1:5	1547	BTEX

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Analysis Run Log for Soil Gas VOC by GC PID/FID

GC Log Number	Sample ID	TIME	
092993.16	IWT 24.19 SG54 1:10	1740	BTEX & TCE
092993.17	IWT 24.19 SG54 1:50	1810	BTEX & TCE
092993.18	IWT 24.19 SG4 1:10	1830	BTEX & TCE
092993.19	IWT 24.19 SG4 [illegible]	1855	
092993.20	IWT 24.19 SG6 [illegible]	1915	
092993.21	ABORT		
092993.22	Check [illegible]	1945	
092993.23	Blank	201[illegible]	
09309301	Blank	0751	
09309302	Check STD 5 ppm	0825	
09309303	IWT 24.19 SG3 /10	0857	
09309304	IWT 24.19 SG3 1:50	0922	
09309305	IWT 24.19 SG3 1:250	0945	
09309306	IWT 24.19 SG2 1:10	1015	
09309307	SWT 32.8 SG16	1127	
09309308	SWT 32.8 SG17	1149	
09309309	SWT 32.8 SG55	1214	
09309310	SWT 32.8 SG18	1552	
09309311	SWT 32.8 SG19	1618	
09309312	SWT 32.8 SG20	1639	
09309313	SWT 32.8 SG21	1705	
09309314	SWT 32.8 SG22	1757	BTEX TCE
09309315	SWT 32.8 SG23	1812	
10019301	Blank	0753	
10019302	Check STD 10 ppm	0815	
10019303	Check STD 5 ppm	0849	
10019304	Check STD 2 ppm	0911	
10019305	Check STD 1 ppm	0933	
10019306	IWT 24.10 SG1	1016	
10019307	IWT 24.10 SG2	1037	
10019308	IWT 24.10 SG3	1100	

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Analysis Run Log for Soil Gas VOC by GC PID/FID

GC Log Number	Sample ID	TIME	
10019309	IWT 24.10 SG4	1126	
KER-A 10019310	IWT 24.10 SG3D	1152	
10019311	IWT 24.10 SG5	1229	
10019312	IWT 24.10 SG6	1251	
10019313	IWT 24.10 SG56	1312	
10019314	IWT 24.11 SG3	1333	
10019315	422 Audit 10 ppm	1358	TCE
10019316	422 Audit 5 ppm	1419	TCE
10019317	422 Audit 2 ppm	1441	TCE
10019318	422 Audit 1 ppm	1503	TCE
10019319	IWT 24.12 SG2	1524	
10019320	IWT 24.12 SG3	1545	
10019321	IWT 24.12 SG4	1606	
10019322	IWT 24.12 SG5	1649	
10019323	Water Headspace		
10019324	Check STD 5 ppm	1856	
JKER-A 10029301	BTEX 10 ppm	0834	BTEX
10029302	BTEX 5 ppm	0901	BTEX
10029303	BTEX 2 ppm	0936	BTEX
10029304	BTEX 1 ppm	0958	BTEX
10029305	BTEX 0.5 ppm	1020	BTEX
10029306	BTEX 0.2 ppm	1041	BTEX
10029307	BTEX 0.1 ppm	1104	BTEX
10039301	Blank	1002	
10039302	Check STD 5 ppm	1027	
10039303	IWT 24.12 SG7	1048	
10039304	IWT 24.12 SG6	1114	
10039305	SWT 32.8 SG1	1138	
10039306	SWT 32.8 SG2	1238	
10039307	SWT 32.8 SG3	1311	
10039308	SWT 32.8 SG 5P	1333	

FORM 8

Analysis Run Log for Soil Gas VOC by GC PID/FID

	GC Log Number	Sample ID	TIME	
NKER-B	10039309	SWT 32.8 SG4	1355	-
	10039310	SWT 32.8 SG5	1435	
	10039311	SWT 32.8 SG5/10	1456	
	10039312	SWT 32.8 SG5/100	1540	
	10039313	SWT 32.8 SG5/1000	1548	
	10039314	SWT 32.8 SG6	1557	BTEX Toluene
	10039315	SWT 32.8 SG7	1618	
	10039316	SWT 32.8 SG7/10	1642	
	10039317	SWT 32.8 SG8	1704	
	10039318	SWT 32.8 SG9	1727	BTEX + TCE
	10039319	SWT 32.8 SG9/10	1752	BTEX + TCE
	10039320	SWT 32.8 SG10	1817	
	10039321	SWT 32.8 SG11	1838	
	10039322	SWT 32.8 SG12	1900	
	10039323	Blank Amb. Air	1921	
	10039324	Check STD 5 ppm	1942	
	~~10039325~~			
TINKER-B	10049301	BTEX 4 ppm	0840	Abort
	10049302	BTEX 4 ppm	0759	Abort
	10049303	BTEX 4 ppm	0822	BTEX
	10049304	Check STD 5 ppm	0858	
	10049305	Blank	0932	
	10049306	SWT 32.8 SG12D	1000	
	10059301	Blank	0843	
	10059302	Check STD 5 PPM	0904	
	10059303	Tubing Blank	0943	
	10059304	IWT 24.6 SG2	1018	
	10059305	IWT 24.6 SG3	1040	
	10059306	IWT 24.6 SG58	1111	
	10059307	MEK 9.1 ppm	1135	
	10059308	IWT 24.6 SG4	1208	

FORM 8

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Analysis Run Log for Soil Gas VOC by GC PID/FID

GC Log Number	Sample ID	TIME
100593.09	IWT 24.6 SG1	1315
100593.10	IWT 24.5 SG3	1338
100593.11	IWT 24.5 SG5	1416
100593.12	IWT 24.5 SG4	1443
100593.13	IWT 24.12 SG8	1626
100593.14	IWT 24.12 SG9	1647
100593.15	IWT 24.12 SG10	1709
100593.16	IWT 24.12 SG9	1730
100593.17	IWT 24.12 SG11	1755
100593.18	IWT 24.12 SG12	1817
100593.19	BLANK	
100593.20	CHECK STD 5 ppm	
100593.19	IWT 24.12 SG1	1850
100593.20	Blank	1911
100593.21	Check STD 5 ppm	1932
100693.01	Blank	0845
100693.02	Check STD 5ppm	0910
100693.03	IWT 24.7 SG1	1020
100693.04	IWT 24.7 SG2	1145
100693.05	IWT 24.7 SG3	1210
100693.06	IWT 24.7 SG4	1230
100693.07	IWT 24.7 SG6	1255
100693.08	IWT 24.8 SG1	1545
100693.09	IWT 24.8 SG2	1610
100693.10	ABORT	
100693.11	IWT 24.8 SG2 1:5	1635
100693.12	IWT 24.8 SG3	1700
100693.13	[illegible] 8 SG3D	1730
100693.14	IWT 24.8 SG3 1:10	1750
100693.15	IWT 24.8 SG4	1815
100693.16	IWT 24.8 SG5	1835

FORM 8

Analysis Run Log for Soil Gas VOC by GC PID/FID

GC Log Number	Sample ID	TIME	
100693.17	IWT24.85G6	1900	
100693.18	IWT24.85G7	1925	
100693.19	IWT24.85G2 1:5	1945	
100693.20	IWT24.85G1	2005	
100693.21	CHK STD	2030	
100693.22	Blank	2050	
100693.23	Blank		
100793.01	Blank	0930	
100793.02	Chk STD 5ppm	0952	
100793.03	IWT24.9 5G3	1020	
100793.04	IWT24.95G2	1043	
100793.05	IWT24.95G1	1105	TCE
100793.06	IWT24.95G4	1125	
100793.07	IWT24.95G62	1145	
100793.08	IWT24.85G9	1245	
100793.09	IWT24.85G8	1305	
100793.10	IWT24.11 5G1	1330	
100793.11	IWT24.11 5G2	1350	
100793.12	IWT24.11 5G4	1525	
100793.13	IWT24.11 5G7	1555	
100793.14	SWT32.35G4	1650	
100793.15	SWT32.35G3	1750	
100793.16	CHK STD	1815	
100793.17	Blank	1850	
101193.01	Blank	1117	
101193.02	Blank	1124	
101193.03	Blank	1143	
101193.04	Blank	1203	
101193.05	Check STD 5 ppm	1225	
101193.06	Check STD 2 ppm	1247	
101193.07	IWT 24.2 5G4	1309	TCE

FORM 8							1
Analysis Run Log for Soil Gas VOC by GC PID/FID							
GC Log Number		Sample ID				TIME	
10119308		IWT	24.2	SG6		1342	TCE
10119309		IWT	24.2	SG6	1:10	1428	TCE
10119310		IWT	24.2	SG6	1:10	1450	RE TCE
⊛ 10119311		IWT	24.2	SG8		1514	TCE
⊛ 10119312		IWT	24.2	SG7		1538	TCE
⊛ 10119313		IWT	24.2	SG7/5		1559	TCE
10119314		IWT	24.2	SG63		1620	TCE
10119315		IWT	24.2	SG63/10		1640	TCE
10119316		RCP	SG9			1704	TCE
10119317		RCP	SG10			1725	Toluene
10119318		IWT	24.2	SG5		1840	TCE BTEX
10119320		IWT	24.2	SG5/2		1901	TCE BTEX
10119321		IWT	24.2	SG3		1925	TCE BTEX
10119322		IWT	24.2	SG3/5		1946	
10119323		IWT	24.2	SG32		2008	TCE
10119324		IWT	24.2	SG1		2029	TCE
10119325		Blank				2051	
10119326		Check STD		2 ppm		2116	
10129301		Blank				0812	AB/CI
~~10129302~~		~~Check STD~~		~~2 ppm~~		-	DMC
10129302		Blank				0823	
10129303		Blend	2	10 ppm	L	0845	
10129304		Blend	2	5 ppm	L	0908	
10129305		Blend	2	2 ppm	L	0929	
10129306		Blend	2	2 ppm	M	0951	
10129307		Blend	2	1 ppm	M	1013	
10129308		IWT	24.3	SG1		1035	
10129309		IWT	24.3	SG5		1056	
10129310		IWT	24.3	SG6		1118	
10129311		IWT	24.3	SG7		1141	TCE + Toluene
10129312		IWT	24.3	SG64		1203	

L- PID on low power

FORM 8

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Analysis Run Log for Soil Gas VOC by GC PID/FID

GC Log Number		Sample ID				TIME	
10129313		IWT	24.3	SG2		1224	
10129314		IWT	24.3	SG2 D		1245	
10129315		IWT	24.3	SG3		1306	Baked out Column
10129316		IWT	24.3	SG4		1404	TCE + BTEX
10129317		IWT	24.3	SG1 1:5		1427	
10129318		IWT	24.3	SG5 1:5		1448	
10129319		IWT	24.2	SG11		1510	TCE + BTEX
10129320		IWT	24.2	SG14		1533	TCE + BTEX
10129321		IWT	24.2	SG12		1557	TCE + BTEX
10129322		IWT	24.2	SG13		1615	TCE + Toluene
10129323		IWT	24.3	SG3	1:50	1642	TCE + BTEX
10129324		IWT	24.3	SG3	1:10	1704	TCE + BTEX
10129325		Air	Blank			1727	
10129326		SWT	32.~~3~~2	SG~~2~~3		1739	
10129327		IWT	24.3	SG9		1801	TCE
10129328	24.2	IWT	24.3	SG9	1:5	1829	
10129329	DMC	IWT	24.3	SG10		1854	strong negative peak
10129330		IWT	24.3	SG65		1914	
10129331		Blank				1947	
10129332		Check STD 2ppm				2012	
~~10139301~~		~~Blank~~				~~0757~~	
~~10139302~~		~~Blank~~				~~0808~~	
10139301		Blank				0843	
10139302		Blank				0903	
10139303		Check STD 2ppm				0925	
10139304		AB STD 5ppm				~~1018~~	1109
10139305		AB STD 2ppm				1130	
10139306		AB STD 1ppm				1153	
10139307		AB STD 0.5ppm				1217	
10139308		Check STD 2ppm				1257	

FORM 8							1
Analysis Run Log for Soil Gas VOC by GC PID/FID							
GC Log Number		Sample ID				TIME	
10139309		AB	STD	5 ppm		1320	
10139310		AB	STD	2 ppm		1341	
10139311		AB	STD	1 ppm		1402	
10139312		AB	STD	0.5 ppm		1424	
~~10139312~~		~~AB~~	~~STD~~	~~0.2 ppm~~			
10139313		IWT	24.3	SG10		1506	TCE
10139314		IWT	24.5	SG7B		1527	
10139315		IWT	24.5	SG8		1611	
* 10139316		IWT	24.1	SG1		1640	TCE
10139317		IWT	24.1	SG66		1703	TCE
* 10139318		IWT	24.1	SG2		1748	TCE
* 10139319		IWT	24.1	SG2/2		1809	
* 10139320		IWT	24.1	SG3		1832	TCE
10139321		IWT	24.5	SG1		1853	TCE
10139322		IWT	24.5	SG2		1929	TCE
10139323		IWT	24.3	SG9		1953	TCE
10139324		IWT	24.3	SG10		2014	TCE
10139325		Blank				2037	
10139326		Check	STD	2 ppm		2058	
10149301		Blank				0817	
10149302		Blank				0841	
10149303		Check	STD	2 ppm		1054	
File has SG7 10149304		IWT	24.3	SG9/5		1142	TCE
10149305		IWT	24.3	SG10/5		1314	TCE
10149306		IWT	24.3	SG11		1336	TCE
10149307		IWT	24.3	SG12		1400	
10149308		IWT	24.3	SG13		1421	TCE
10149309		IWT	24.2	SG15		1446	TCE
10149310		IWT	24.2	SG16		1527	
10149311		IWT	24.2	SG17		1549	TCE
10149312		IWT	24.2	SG17/5		1619	

FORM 8

Analysis Run Log for Soil Gas VOC by GC PID/FID

GC Log Number		Sample ID			TIME	
10149313		IWT	24.2	SG-17/25	1647	
10149314		IWT	24.3	SG13/2	1710	TCE
10149315		IWT	24.3	SG12/2	1731	
10149316		IWT	24.3	SG11/10	1752	~~TCE~~
10149317		IWT	24.3	SG11/50	1813	
10149318		Blank			1838	
10149319		Check	STD	2 ppm	1900	
10149322		Check	STD	2 ppm	0814	
10159301		Check	STD	2 ppm	0842	ABC
10159302		Blank			0903	
10159303		IWT	24.2	SG65	0926	(SG10) TCE
10159304		IWT	24.2	SG18	0954	TCE
10159305		IWT	24.2	SG19	1015	TCE
10159306		IWT	24.2	SG67	1036	TCE
10159307		IWT	24.2	SG20	1104	TCE
10159308		IWT	24.2	SG21	1126	
10159309		IWT	24.1	SG5	1151	TCE
10159310		IWT	24.1	SG6	1212	TCE
10159311		IWT	24.1	SG7	1236	TCE
~~10159312~~		Switch to 1020 integrator using remote start.				
10159304	12	IWT	24.2	SG22	1647	
10159302	13	IWT	24.2	SG23	1708	
10159303	14	IWT	24.2	SG24	1738	TCE
10159304	15	IWT	24.2	SG25	1759	TCE
10159305	16	IWT	24.2	SG26	1821	
10159306	17	IWT	24.2	SG68	1845	TCE
10159307	18	IWT	24.3	SG14	1906	TCE
10159308	19	Blank			1928	
10159309	20	Check	STD	2 ppm	1950	

FORM 8

Analysis Run Log for Soil Gas VOC by GC PID/FID

GC Log Number	Sample ID	TIME	
101693 01	Blank	0820	
101693 02	AB STD 5 ppm	0843	*
101693 03	AB STD 2 ppm	0910	*
101693 04	AB STD 1 ppm	0944	*
101693 05	IWT 24.2 SG 25/5	1005	
101693 06	RCP SG 5	1028	
101693 08	RCP SG 6	1050	
101693 09	RCP SG 8	1112	TCE
101693 10	RCP 597	1133	TCE
101693 11	IWT 24.19 SG 26	1155	TCE
101693 12	IWT 24.19 SG 26/10	1217	TCE
101693 13	IWT 24.19 SG 27	1238	
101693 14	IWT 24.19 SG 27/50	1300	TCE
101693 15	IWT 24.19 SG 28	1322	TCE
101693 16	IWT 24.19 SG 28/10	1347	TCE
101693 17	IWT 24.19 SG 25	1408	TCE
101693 18	IWT 24.19 SG 25/10	1430	TCE
101693 19	IWT 24.19 SG 69/50	1451	TCE
101693 20	IWT 24.19 SG 69/500	1505	TCE
101693 21	AB STD 0.5 ppm	1519	
101693 22	AB STD 0.5 ppm	1541	
101693 23	CD STD 4 ppm	1605	*
101693 24	CD STD 2 ppm	1627	*
101693 25	CD STD 1 ppm	1648	*
101693 26	CD STD 0.5 ppm	1710	*
101693 27	IWT 24.19 SG 24	1735	TCE
101693 28	IWT 24.19 SG 23	1757	TCE
101693 29	IWT 24.19 SG 29	1832	TCE
101693 30	IWT 24.19 SG 22	1849	TCE
101693 31	Blank	1910	
101693 32	Check STD 2 ppm	1935	

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FORM 8

Analysis Run Log for Soil Gas VOC by GC PID/FID

GC Log Number	Sample ID	TIME	TINKER ID TINKER CD
10179301	Blank	0736	
10179302	Check STD 2 ppm	0757	
10179303	IWT 24.19 SG 26/50	0821	⊛
10179304	IWT 24.19 SG 25/1K	0834	
10179305	IWT 24.19 SG 26/250	0846	
10179306	IWT 24.19 SG 25/E5	0857	
10179307	IWT 24.19 SG 24/50	0909	
10179308	IWT 24.19 SG 23/50	0921	
10179309	IWT 24.19 SG 29/5	0933	
10179310	IWT 24.19 SG 22/5	0946	
10179311	IWT 24.19 SG 22/STD	0957	
10179312	IWT 24.19 SG 21	1000	
10179313	IWT 24.19 SG 24/250	1029	
10179314	IWT 24.19 SG 23/500	1041	
10179315	IWT 24.19 SG 24/1250	1054	
10179316	IWT 24.19 SG 23/2500	1105	↓
10179317	2 ppm Syringe	1117	
10179318	2 ppm Tedlar	1138	
10179319	IWT 24.19 SG 19	1200	⊛
10179320	IWT 24.19 SG 19/100	1221	
10179321	IWT 24.19 SG 20	1237	
10179322	IWT 24.19 SG 20/10	1254	
10179323	IWT 24.19 SG 18	1310	
10179324	IWT 24.19 SG 17	1331	
10179325	IWT 24.19 SG 17/250	1353	
10179326	IWT 24.19 SG 16	1404	
10179327	IWT 24.19 SG 15	1426	↓
10179328	SWT 32.8 SG 27	1448	
10179329	SWT 32.8 SG 26	1520	
10179330	SWT 32.8 SG 25	1545	TCE
10179331	SWT 32.8 SG 70	1606	TCE

FORM 8

Analysis Run Log for Soil Gas VOC by GC PID/FID

GC Log Number	Sample ID	TIME	
1017933 2	SWT 32.8 SG 24	1627	TCE
1017933 3	SWT 32.8 SG 24 / 500	1649	TCE
1017933 4	IWT 24.19 SG 30	1709	TCE
1017933 5	IWT 24.19 SG 17 / 500	1731	TCE
1017933 6	IWT 24.19 SG 17 / 50,000	1753	TCE
1017933 7	IWT 24.19 SG 15 / 10	1817	TCE
1017933 8	SWT 32.8 SG 27	1832	TCE
1017933 9	Blank H_2O HS	1853	
1017934 0	Check Std 2 ppm	1916	
1017934 1			
1017934 2			

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09239301 / BLANK

Date/time collected: N/A

Date/time analyzed: 09-23-93 / 0832

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	—	ND			—	ND	
1,1-DCE					1.940	2.60	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 07239302 / Check STD 3.0
Date/time collected: NA
Date/time analyzed: 09-23-93 / 0856
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.397	5600		1.420	5600	
1,1-DCE	1.773	2800		1.793	2800	
Methylene Chloride	—	—				
t-1,2-DCE	—	—				
1,1-DCA	—	—		2.350	2700	
cis-1,2-DCE	3.020	2800				
Chloroform	—	—				
1,1,1-TCA	—	—		2.997	5600	
benzene	3.370	2900		3.397	2800	
1,2-DCA	—	—				
trichloroethene	4.213	2800		4.167	2900	
toluene	6.307	2800		6.337	3500	
tetrachloroethene	7.867	5600		7.903	4300	
ethyl benzene	12.220	2900		12.283	2800	
m+p-xylene	—	—		—	—	
o-xylene	16.026	2800		16.080	2800	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09239307 / SWT 32.4 SG1
Date/time collected: 09-23-93 / 1621
Date/time analyzed: 09-23-93 / 1637
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	—	<100		—	<100	
1,1-DCE	1.756	340		1.783	1700	
Methylene Chloride	—	—		—	<100	
t-1,2-DCE	—	<100		—	<100	
1,1-DCA	—	—		—	<100	
cis-1,2-DCE	—	<100		—	<100	
Chloroform	—	—		—	<100	
1,1,1-TCA	—	—		2.943	680	
benzene	—	<100		—	<100	
1,2-DCA	—	—		—	<100	
trichloroethene	4.117	360		4.140	230	
toluene	—	<100		—	<100	
tetrachloroethene	7.653	870		7.690	1100	
ethyl benzene	—	<100		—	<100	
m+p-xylene	—	—		—	<100	
o-xylene	—	<100		—	<100	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09239305 / SVT 32.4 SG1 D

Date/time collected: 09239305 / 1621

Date/time analyzed: 09-23-93 / 1710

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DLC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	—	<100				
1,1-DCE	1.760	530		1.790	1300	
Methylene Chloride	—	—				
t-1,2-DCE	—	<100				
1,1-DCA	—	—		2.243	170	
cis-1,2-DCE	—	<100				
Chloroform	—	—				
1,1,1-TCA	—	—		2.970	930	
benzene	—	<100		—	<100	
1,2-DCA	—	—				
trichloroethene	4.130	620		4.160	400	
toluene	~~6.213~~	<400		—	<100	
tetrachloroethene	7.690	670		7.730	1600	
ethyl benzene	—					
m+p-xylene	—					
o-xylene	—					

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09239306 / SWT 32.4 SG2
Date/time collected: 09-23-93 / 1730
Date/time analyzed: 09-23-93 / 1733
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	—	<400				
1,1-DCE	1.776	600		1.793	1600	
Methylene Chloride	—	—		—	<100	
t-1,2-DCE	—	<100				
1,1-DCA	—	—		—	<100	
cis-1,2-DCE	—	<100				
Chloroform	—	—				
1,1,1-TCA	—	—		2.950	580	
benzene	—	<100				
1,2-DCA	—	—				
trichloroethene	4.140	570		4.157	480	
toluene	—	—		—	<100	
tetrachloroethene	7.683	1300		7.697	3000	
ethyl benzene	—	—				
m+p-xylene	—	—				
o-xylene	—	—				

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09239307 / SWT 32.4 SG2 D
Date/time collected: 09-23-93 / 1732
Date/time analyzed: 09-23-93 / 1755
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	—	<100				
1,1-DCE	1.756	530		1.773	1400	
Methylene Chloride	—	—				
t-1,2-DCE	—	<100				
1,1-DCA				2.250	120	
cis-1,2-DCE						
Chloroform						
1,1,1-TCA				2.950	640	
benzene				—	<100	
1,2-DCA						
trichloroethene	4.117	590		4.133	430	
toluene						
tetrachloroethene	7.630	1200		7.667	2700	
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09239308, SVT 32.4 SG3
Date/time collected: 09-23-93 / 1833
Date/time analyzed: 09-23-93 /
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): MMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.773	160			1.786	540	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					2.950	500	
benzene							
1,2-DCA							
trichloroethene	4.106	160			4.137	<100	
toluene							
tetrachloroethene	7.637	420			7.646	1100	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

DMC

Sample ID: 09239309 / SWT 32.4 SG4 ~~R~~

Date/time collected: 09-23-93 / ~~1876~~ 1852

Date/time analyzed: 09-23-93 / 1923

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DMC

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride		<100					
1,1-DCE		<100					
Methylene Chloride							
t-1,2-DCE		<100					
1,1-DCA							
cis-1,2-DCE		<100					
Chloroform							
1,1,1-TCA					3.040	130	
benzene		<100					
1,2-DCA							
trichloroethene		<100					
toluene		<100					
tetrachloroethene		<100			7.637	410	
ethyl benzene		<100					
m+p-xylene		<100					
o-xylene		<100					

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 092393 10 / SWT 32.4 563X

Date/time collected: 09-23-93 / 162.6

Date/time analyzed: 09-23-93 / 1945

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE					1.776	450	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					2.520	340	
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene	7.630	150			7.606	460	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 092393-11 / Blank

Date/time collected: ~~[illegible]~~ NA

Date/time analyzed: 09-23-93 / 2012

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): MC

COMPOUND	RT	PID RESULTS ppbV	PID QUAL.		RT	FID RESULTS ppbV	FID QUAL.
		ND					
Vinyl Chloride							
1,1-DCE					1,55C	420	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene		X					

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09239312 / Check STD

Date/time collected: NA

Date/time analyzed: 09-23-93 / 2033

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): AMP

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.387	2700		1.407	6800	
1,1-DCE	1.750	1900		1.783	3600	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.296	3400	
cis-1,2-DCE	2.940	1900		2.920	7100	
Chloroform						
1,1,1-TCA				2.929	7100	
benzene	3.287	1600		3.330	3200	
1,2-DCA						
trichloroethene	4.087	1900		4.020	3000	
toluene	6.077	1500		6.106	3600	
tetrachloroethene	7.577	2800		7.600	5500	
ethyl benzene	11.663	1600		11.730	3000	
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09249301 / Blank
Date/time collected: NA
Date/time analyzed: 09-24-93
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): [illegible]

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride					1.843	260	
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09249302 / Check STD 3.0
Date/time collected: NA
Date/time analyzed: 09-24-93 / 1038
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.380	1700					
1,1-DCE	1.747	1300					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE	2.937	2200					
Chloroform							
1,1,1-TCA							
benzene	3.283	1600					
1,2-DCA							
trichloroethene	4.080	1400					
toluene	6.080	1600					
tetrachloroethene	7.573	2800					
ethyl benzene	11.653	1700					
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09249303 / SWT 32.4 SG5

Date/time collected: 09-24-93 / 0857

Date/time analyzed: 09-24-93 / 1106

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DMC

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride							
1,1-DCE	1.763	420 ~~[illegible]~~ DMC			1.823 DMC	720 ~~[illegible]~~	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE					2.967		
Chloroform					↕		
1,1,1-TCA					2.967	200	
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene	7.537	480			7.667	180	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09249304 / SWT 32.4 SG6
Date/time collected: 09-24-93 / 0924
Date/time analyzed: 09-24-93 / 1142
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride							
1,1-DCE	1.766	270			1.786	510	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene					7.790	100	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 092493 05 / SWT 32.4 SG7

Date/time collected: 09-24-93 / 1035

Date/time analyzed: 09-24-93 / 1211

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): BMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride				1.466	360	
1,1-DCE	1.776	290		1.776	630	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA						
benzene						
1,2-DCA						
trichloroethene						
toluene						
tetrachloroethene				7.790	380	
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09249306 / SWT 32.4 SBS
Date/time collected: 09-24-93 / 1055
Date/time analyzed: 09-24-93 / 1247
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DWC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride					1.470	100	
1,1-DCE	1.976	260			1.500	400	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					3.130	280	
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene					7.833	190	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09249307 / SWT 32.4 SG9
Date/time collected: 09-24-93 / 1150
Date/time analyzed: 09-24-93 / 1317
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): BMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.783	250			1.796	850	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA					3.957	120	
trichloroethene							
toluene							
tetrachloroethene	7.606	480			7.640	350	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09249308 / SWT 32.4 SG 10
Date/time collected: 09-24-93 / 1206
Date/time analyzed: 09-24-93 / 1357
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.766	AMC ~~3~~10			1.790	AMC ~~780~~ ~~900~~	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					2.913	AMC 340 ~~250~~	
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene	7.633	AMC ~~680~~			7.640	360	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09249309 / SWT 32.4 SG50
Date/time collected: 09-24-93 /
Date/time analyzed: 09-24-93 / 1428
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride							
1,1-DCE	1.743	280			1.786	790	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					~~2.710~~	~~110~~	
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene	7.673	~~140~~ 650			7.686	380	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09249310 / SWT 32.4 SG11

Date/time collected: 09-24-93 / 1235

Date/time analyzed: 09-24-93 / 1648

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.763	340			1.780	130	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					2.883	280	
benzene							
1,2-DCA					4.123	-250	
trichloroethene							
toluene							
tetrachloroethene	7.617	510			7.660	430	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09249311 / SWT 32.4 SG12

Date/time collected: 09-24-93 / 1605

Date/time analyzed: 09-24-93 / 1710

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): MMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride					1.473	340	
1,1-DCE	1.783	560			1.800	740	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA					~~2.260~~		
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA					4.020	160	
trichloroethene							
toluene							
tetrachloroethene	7.787	100			7.827	180	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID:	092493.12 / SWT 32.2 (32.3) SG 1
Date/time collected:	09-24-93 / 1635
Date/time analyzed:	09-24-93 / 1731
Air vol. analyzed:	1.0
Dilution factor:	1.0
Analyst(s):	DMC

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride		DMC				DMC	
1,1-DCE	1770	110 ~~[illegible]~~			1.803	1200 ~~[illegible]~~	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA					~~[illegible]~~	DMC ~~210~~	
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID:	09249313 / SWT 32.2 SG ID (32.5)
Date/time collected:	09-24-93 / 1635
Date/time analyzed:	09-24-93 /
Air vol. analyzed:	1.0
Dilution factor:	1.0
Analyst(s):	DMC

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride					1.516	660	*
1,1-DCE	1.760	200			1.783	DMC ~~1100~~ 290	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

HC peak (methane)

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09249315 / Blank
Date/time collected: NA
Date/time analyzed: 09-24-93 / 1858
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride		ND				DMC	
1,1-DCE					1,850	150 ~~[illegible]~~	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID:	~~[illegible]~~ CA STD 09249305 / Check STD 2.0
Date/time collected:	NA
Date/time analyzed:	09-24-93 / 1925
Air vol. analyzed:	1.0
Dilution factor:	1.0
Analyst(s):	DMC

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride	1.413	2000			1.423		
1,1-DCE	1.770	2000			1.793		
Methylene Chloride							
t-1,2-DCE							
1,1-DCA					2.330		
cis-1,2-DCE	2.950	2000			2.957		
Chloroform					↕		
1,1,1-TCA					2.957		
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene	7.613	2000			7.650		
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09259301 / Blank
Date/time collected: ~~09-25-93~~ NA
Date/time analyzed: 09-25-93 /
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	—	ND		1.360	120	
1,1-DCE				1.843	370	
Methylene Chloride				—	ND	
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA				2.880	60	
benzene				3.343	15	
1,2-DCA				—	ND	
trichloroethene						
toluene						
tetrachloroethene						
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09259302 / Check STD 2 ppm
Date/time collected: NA
Date/time analyzed: 09-25-93 / 1042
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride				1.403	2700	
1,1-DCE	1.756	1009		1.773	2800	
Methylene Chloride						
t-1,2-DCE	—					
1,1-DCA				2.310	1800	
cis-1,2-DCE	2.947	820				
Chloroform						
1,1,1-TCA / 1,2-DCE				2.940	3850	
benzene						
1,2-DCA					-	
trichloroethene				3.997	710	
toluene						
tetrachloroethene	7.597	980		7.630	2400	
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09259303 / SWT 32.2 SG-1
Date/time collected: 09-25-93 / 0910
Date/time analyzed: 09-25-93 / 1133
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): [illegible]

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.780	110			1.840	550	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					3.023	340	
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene	7.627	86	J		7.633	300	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09259304 / SWT 32.2 SG2

Date/time collected: 09-25-93 / 0939

Date/time analyzed: 09-25-93 / 1205

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): MMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride		MMC ~~[illegible]~~			~~1.463~~	MMC ~~[illegible]~~	~~[illegible]~~
1,1-DCE	1.763	2200 ~~[illegible]~~			1.793	3100	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09259305 / SWT 32.6 SG1

Date/time collected: 09-25-93 / 1205

Date/time analyzed: 09-25-93 / 1417

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.850	700			1.813	1200	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene					7.780	100	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09259306 / SWT 32.6 SG2

Date/time collected: 09-25-93 / 1444

Date/time analyzed: 09-25-93

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): [illegible]

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
		ND					
Vinyl Chloride					1890	130	
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09259307 / SWT 32.6 SE 51

Date/time collected: 09-25-93 /

Date/time analyzed: 09-25-93 / 511

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.	
Vinyl Chloride					1,470	360		*
1,1-DCE	1,783	350			1,800	580		
Methylene Chloride								
t-1,2-DCE								
1,1-DCA								
cis-1,2-DCE								
Chloroform								
1,1,1-TCA								
benzene								
1,2-DCA								
trichloroethene								
toluene								
tetrachloroethene								
ethyl benzene								
m+p-xylene								
o-xylene								

HC peak

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09259308 / SWT 32.5 SG2

Date/time collected: 09-25-93 / 1415

Date/time analyzed: 09-25-93 /

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): BMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.750	1400			1.503	1700	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09259309 / IWT 24.11 SGS
Date/time collected: 09-25-93 / 1445
Date/time analyzed: 09-25-93 / 1558
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.	
Vinyl Chloride					1.503	120		*
1,1-DCE	1.756	440			1.786	1.80		
Methylene Chloride								
t-1,2-DCE								
1,1-DCA								
cis-1,2-DCE								
Chloroform								
1,1,1-TCA								
benzene								
1,2-DCA								
trichloroethene								
toluene								
tetrachloroethene								
ethyl benzene								
m+p-xylene								
o-xylene								

*- might be HC peak

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 092573 10 / Blank
Date/time collected: NA
Date/time analyzed: 09-25-93 / 1819
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	RT (PID)	RESULTS ppbV (PID)	QUAL. (PID)		RT (FID)	RESULTS ppbV (FID)	QUAL. (FID)	
		ND						
Vinyl Chloride								
1,1-DCE					1.863	170		*
Methylene Chloride								
t-1,2-DCE								
1,1-DCA								
cis-1,2-DCE								
Chloroform								
1,1,1-TCA								
benzene								
1,2-DCA								
trichloroethene								
toluene								
tetrachloroethene								
ethyl benzene								
m+p-xylene								
o-xylene								

* Probably HC peak

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09259311 / Check STD 2.0
Date/time collected: NA
Date/time analyzed: 09-25-93 / 1840
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.380	AMC ~~1280~~ 1980		1.403	AMC ~~2450~~ 2200	
1,1-DCE	1.760	AMC 1470		1.776	AMC ~~2440~~	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA		AMC 3280		2.317	AMC 2330	
cis-1,2-DCE	2.943	~~1210~~				
Chloroform						
1,1,1-TCA / 1,2 DCE				2.947	AMC ~~4420~~	
benzene						
1,2-DCA				4.010	AMC ~~2440~~	
trichloroethene						
toluene		AMC 1590			AMC 1970	
tetrachloroethene	7.633	~~1210~~		7.643	~~2690~~	
ethyl benzene						
m+p-xylene						
o-xylene					AMC 2210	
EDB				11.863	~~1990~~	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09279301 / Blank
Date/time collected: NA
Date/time analyzed: 09-27-93 / 0948
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	RT	PID RESULTS ppbV	PID QUAL.		RT	FID RESULTS ppbV	FID QUAL.	
		U						
Vinyl Chloride					1.480	160		*
1,1-DCE					1.567	230		*
Methylene Chloride								
t-1,2-DCE								
1,1-DCA								
cis-1,2-DCE								
Chloroform								
1,1,1-TCA								
benzene								
1,2-DCA								
trichloroethene								
toluene								
tetrachloroethene								
ethyl benzene								
m+p-xylene								
o-xylene								

* Probably HC peaks

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09279302 / Check STD 2ppm
Date/time collected: NA
Date/time analyzed: 09-27-93
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.370	2100			1.410	2500	
1,1-DCE	1.766	1700			1.786	2400	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA					2.330	2600	
cis-1,2-DCE	2.973	3300			2.967	4800	
Chloroform					↑	↑	
1,1,1-TCA					2.967	4800	
benzene							
1,2-DCA					4.040	7300	
trichloroethene							
toluene							
tetrachloroethene	7.693	1500			7.723	2200	
ethyl benzene							
m+p-xylene							
o-xylene							
EDB					11.960	2300	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09279303 / SWT 32.5 SG3
Date/time collected: 09-27-93 / 0910
Date/time analyzed: 09-27-93 / 1119
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride		ND				N	
1,1-DCE	1.793	200			1.817	450	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					~~3.137~~	DMC ~~300~~	
benzene							
1,2-DCA					~~4.186~~	DMC ~~50~~	
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

Hydrocarbon at R.T. for 1,1-DCE

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 092793 04 / IWT 24.11 SG6
Date/time collected: 09-27-93 / 0930
Date/time analyzed: 09-27-93 / 1152
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
		DMC			DMC	
Vinyl Chloride		~~ND~~			~~ND~~	
1,1-DCE	1.783	360		1.813	1100	
Methylene Chloride		ND			ND	
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA						
benzene						
1,2-DCA						
trichloroethene						
toluene						
tetrachloroethene						
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09279305 / RCP1 SG2
Date/time collected: 09-27-93 / 1345
Date/time analyzed: 09-27-93 / 1403
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride	—	ND					
1,1-DCE	[illegible]	300			1,810	32,000	
Methylene Chloride		DMC					
t-1,2-DCE							
1,1-DCA					2.397	4000	
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					2.880	5300	
benzene							
1,2-DCA					3.950	9300	
trichloroethene	3.943	440			3.950	4600	
toluene	6.103	270			6.177	430	
tetrachloroethene					7.593	180	
ethyl benzene							
m+p-xylene							
o-xylene							

(*) large HC peak
$C_1 - C_5$ range

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: ~~RCP~~ 09279306 / RCP1 SG1
Date/time collected: 09-27-93 / 1405
Date/time analyzed: 09-27-93 / 1439
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride							
1,1-DCE	1.773	370					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE	2.520	1500					
Chloroform							
1,1,1-TCA							
benzene	3.283	780					
1,2-DCA							
trichloroethene	3.917	8200					
toluene	6.256	8900					
tetrachloroethene					7.610	14,000	
ethyl benzene	11.980	210			11.947	1000	
m+p-xylene							
o-xylene	15.556	230			15.550	270	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FID off-scale
dilute 1:10

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID:	092793067 / RCA1 SG1 / 10
Date/time collected:	09-27-93 / 1405
Date/time analyzed:	09-27-93 / 1508
Air vol. analyzed:	1.0
Dilution factor:	10.0
Analyst(s):	DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
				1.710		
Vinyl Chloride						
1,1-DCE						
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.413	39,000	
cis-1,2-DCE						
Chloroform						
1,1,1-TCA				2.887	79,000	
benzene	3.270	1860		3.230	87,000	
1,2-DCA				3.977	190,000	
trichloroethene	3.417	4100		3.977	140,000	
toluene	6.350	2800		6.260	20,000	
tetrachloroethene				7.587	6000	
ethyl benzene						
m+p-xylene						
o-xylene				15.580	640	

(*) large HC peak

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09279308 / RCP1 SG2 / 5

Date/time collected: 09-27-93 / 1345

Date/time analyzed: 09-27-93 / 1543

Air vol. analyzed: 1.0

Dilution factor: 5.0

Analyst(s): DMC

COMPOUND	RT	PID RESULTS ppbV	PID QUAL.		RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09279309 / RCP1 5G3
Date/time collected: 09-27-93 / 1535
Date/time analyzed: 09-27-93 / 1630
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): BMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride		BMC				
1,1-DCE	1.973	650		1.537	36,000	(*)
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA				2.870	6000	
benzene				3.230	730	
1,2-DCA				3.943	5700	
trichloroethene	3.917	500		3.943	3600	
toluene	6.183	470		6.237	580	
tetrachloroethene						
ethyl benzene	11.183	250				
m+p-xylene						
o-xylene	15.563	340				

(*) FID shows numerous hydrocarbon peaks

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID:	09279310~~8~~ / RCP1 5G4 HS
Date/time collected:	09-27-93 /
Date/time analyzed:	09-27-93 / 1653
Air vol. analyzed:	1.0
Dilution factor:	1.0
Analyst(s):	DMC

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA						DMC	
cis-1,2-DCE	2.846	20,000			~~7.843~~	~~1700~~	
Chloroform							
1,1,1-TCA							
benzene	3.323	8100					
1,2-DCA							
trichloroethene	4.043	28,000					
toluene	6.296	13000					
tetrachloroethene							
ethyl benzene	12.127	9500					
m+p-xylene							
o-xylene	15.500	3600					

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

take out column after this sample

the FID is saturated during most of the run.

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09279811 / SWT 32.1 SG1
Date/time collected: 09-27-93 / 1730
Date/time analyzed: 09-27-93 / 1824
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride					1.463	380	(*)
1,1-DCE	1.786	1300			1.806	940	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

(*) HC peak

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09279312 / SWT 32.1 SG2
Date/time collected: 09-27-93 / 1945
Date/time analyzed: 09-27-93 / 1858
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	~~ND~~	ND				ND	
1,1-DCE	1.803	470			1.823	690	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09279313 / SWT 32.1 SG3
Date/time collected: 09-27-93 / 1625
Date/time analyzed: 09-27-93 / 1920
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride		AMC 2700			1.450	AMC 420	
1,1-DCE	1.796	~~3200~~			1.820	AMC 1500 ~~[illegible]~~	
Methylene Chloride						ND	
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09279214 / SWT 32.1 SG3D
Date/time collected: 09-27-93 / 1625
Date/time analyzed: 09-27-93 / 1948
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride		ND			1.483	DMC ~~260~~ ~~300~~	
1,1-DCE	1.793	DMC ~~600~~			1.827	DMC ~~570~~ 400	
Methylene Chloride		ND				ND	
t-1,2-DCE							
1,1-DCA					~~2.256~~	DMC ~~140~~	
cis-1,2-DCE						ND	
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA					4.223	DMC 130	
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09279315 / Air Blank
Date/time collected: NA
Date/time analyzed: 09-27-93 / 2011
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	RT	PID RESULTS ppbV	PID QUAL.		RT	FID RESULTS ppbV	FID QUAL.
		ND					
Vinyl Chloride							
1,1-DCE					1.817	150	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

MC peak

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09279316 / Check STD 5 ppm
Date/time collected: N/A
Date/time analyzed: 09-27-93 / 2033
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.370	7400		1.410	5000	
1,1-DCE	1.770	7000		1.793	4300	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.353	5100	
cis-1,2-DCE	3.013	10,000		3.010	9800	
Chloroform				↕	↕	
1,1,1-TCA				3.010	9800	
benzene						
1,2-DCA				4.120	4600	
trichloroethene						
toluene						
tetrachloroethene	7.880	1700		7.913	4300	
ethyl benzene						
m+p-xylene						
o-xylene						
EDB				12.340	4300	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09289301 / Blank
Date/time collected: NA
Date/time analyzed: 09-28-93 / C803
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s):

COMPOUND	RT	PID RESULTS ppbV	PID QUAL.		RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride		ND					
1,1-DCE					1.540	250	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09[illegible]9502 / [illegible] STL

Date/time collected: NA

Date/time analyzed: 9/25/93 0856

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s):

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride	1.393	7500			1.417	4900	
1,1-DCE	1.776	6900			1.800	4200	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE	3.020	11,000			3.020	10,000	
Chloroform					↕		
1,1,1-TCA					3.020	10,000	
benzene							
1,2-DCA					4.130	5200	
trichloroethene							
toluene							
tetrachloroethene	7.920	6800			7.933	4500	
ethyl benzene							
m+p-xylene							
o-xylene							
EDB					12.367	4400	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: [illegible] 092893 03

Date/time collected: [illegible] 1345

Date/time analyzed: [illegible] 1554

Air vol. analyzed: [illegible]

Dilution factor: [illegible]

Analyst(s): [illegible]

COMPOUND	RT	PID RESULTS ppbV	PID QUAL.		RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.830	3400					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					2.980	DNC 6900	
benzene							
1,2-DCA					4.080	DNC 4000	
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09289305 / RCP1 SG4 HS
Date/time collected: 09-17-93 /
Date/time analyzed: 09-25-93 / 1110
Air vol. analyzed: 1.0
Dilution factor: 10.0
Analyst(s): MMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride					2.173	93,000	
t-1,2-DCE							
1,1-DCA					2.480	36,000	
cis-1,2-DCE							
Chloroform					3.050	72,000	
1,1,1-TCA							
benzene	2.973	2300			3.050	23,000	
1,2-DCA					4.207	140,000	
trichloroethene	4.060	27,000					
toluene	6.743	9300			6.743	18,000	
tetrachloroethene							
ethyl benzene	11.233	1800			11.047	5200	
m+p-xylene							
o-xylene	14.703	1600			14.663	1700	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: IWT24.19SG9

Date/time collected: 9-28-93 1443

Date/time analyzed: 9-28-93 1455

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): CSV / D C

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride	1.440	61,000					
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					~~3.157~~		E
benzene	~~[illegible]~~	~~[illegible]~~			~~[illegible]~~		
1,2-DCA							
trichloroethene	4.146	13,000					
toluene	5.560	1700			5.650	7000	
tetrachloroethene	7.820	40,000	E		7.927	51,000	E
ethyl benzene	10.480	460			10.547	1700	
m+p-xylene							
o-xylene	~~15.340~~	~~1200~~			15.403	1300	
EDB					~~[illegible]~~	~~[illegible]~~	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

Both detectors saturated -

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: [illegible]

Date/time collected: 9-28-93 / 1413

Date/time analyzed: [illegible] / 1500

Air vol. analyzed: 1.0

Dilution factor: 10.0

Analyst(s): [illegible]

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.427	100,000		1.576	200,000	E
1,1-DCE	1.823	210,000		1.890	120,000	E
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.383	130,000	E
cis-1,2-DCE	3.057	550,000	E			
Chloroform						
1,1,1-TCA						
benzene	~~3.097~~	~~180,000~~		3.256	94,000	
1,2-DCA				~~[illegible]~~	~~[illegible]~~	
trichloroethene	4.080	16,000		3.943	40,000	
toluene	~~6.453~~	~~[illegible]~~		~~6.880~~	~~[illegible]~~	
tetrachloroethene	7.443	80,000		7.523	100,000	
ethyl benzene	~~11.357~~	~~8000~~		11.143	21,000	
m+p-xylene						
o-xylene	15.216	13,000		15.083	18,000	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

Some peaks still saturated

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: IWT 24.19 SG9 072893.08
Date/time collected: 9-28-93 1443
Date/time analyzed: 9-28-93 1543
Air vol. analyzed: 1.0
Dilution factor: 50.00
Analyst(s): CGV

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
				1.330		*
Vinyl Chloride	1.413	160,000				
1,1-DCE	1.766	240,000		1.770	240,000	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.303	220,000	
cis-1,2-DCE	2.900	1,300,000		3.037	1,000,000	
Chloroform				↑	↑	
1,1,1-TCA				(3.037)	(1,000,000)	
benzene						
1,2-DCA				~~3.973~~	~~160,000~~	
trichloroethene	4.050	38,000		3.913	49,000	
toluene	~~[illegible]~~	~~[illegible]~~		6.010	27,000	
tetrachloroethene	7.423	85,000		7.460	72,000	
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

Peaks at 12.6 & 19 min from previous run

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 092893.09 / IWT24.19 SG10
Date/time collected: 9-28-93 1540
Date/time analyzed: 9-28-93 1630
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): CSV

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.407	2,700,000	E				
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene	3.200	1,600,000	E				
1,2-DCA							
trichloroethene	3.843	1,850,000	E				
toluene							
tetrachloroethene	6.430	3,500,000	E		7.440	1,400,000	E
ethyl benzene	10.470	150,000			10.703	200,000	
m+p-xylene							
o-xylene	14.603	69,000			14.753	110,000	
EDB					11.550	670,000	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected; value given

FID + PID Saturated

Benzene & Toluene

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID:	092893.10	IW-T24.19 SG10/10
Date/time collected:	9-28-93	1540
Date/time analyzed:	9-28-93	1655
Air vol. analyzed:	1.0	
Dilution factor:	10	
Analyst(s):	CSV	

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.423	94,000				
1,1-DCE	1.803	260,000		1.770	130,000	E
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.357	170,000	E
cis-1,2-DCE	3.093	830,000				
Chloroform						
1,1,1-TCA						
benzene	3.093	250,000				
1,2-DCA				~~3.990~~	~~140,000~~	
trichloroethene	3.940	81,000		3.990	120,000	
toluene	5.780	12,000		5.816	14,000	
tetrachloroethene	7.267	340,000		7.330	270,000	E
ethyl benzene				10.650	2000	
m+p-xylene						
o-xylene				14.380	18,000	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

Some PID + FID results saturated

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 093893.11 IWT24.19SG10/50
Date/time collected: 9-28-93 1540
Date/time analyzed: 9-28-93 1720
Air vol. analyzed: 1.0
Dilution factor: 50
Analyst(s): CSU

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
				1.310		
Vinyl Chloride	1.443	130,000				
1,1-DCE	1.740	350,000		1.813	270,000	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA		~~[illegible]~~		2.330	190,000	
cis-1,2-DCE	3.033	~~[illegible]~~		3.150	1,300,000	
Chloroform				↕		
1,1,1-TCA				3.150	1,300,000	
benzene	(3.033	930,000)		(3.150	460,000)	
1,2-DCA				~~4.063~~	~~260,000~~	
trichloroethene	4.046	92,000		4.063	~~[illegible]~~,000	
toluene						
tetrachloroethene	7.417	590,000		7.463	450,000	
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

TLE

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 092893-12 IWT 24.19 SG11 /10

Date/time collected: 9-28-93 / 1607

Date/time analyzed: 9-28-93 / 1805

Air vol. analyzed: 1

Dilution factor: 10

Analyst(s): CSV

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.433	16,000					
1,1-DCE	1.733	82,000			1.753	66,000	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE	2.817	540,000			2.930	230,000	
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene					7.847	1700	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

Some peaks (FID + PID) saturated.

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 092893.13 IWT.2419 SG11/20

Date/time collected: 9-28-93 1607

Date/time analyzed: 9-28-93 1830

Air vol. analyzed: 1

Dilution factor: 20

Analyst(s): CSV

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.753	75,000			1.773	60,000	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA					2.263	25,000	
cis-1,2-DCE	2.863	850,000			2.957	350,000	
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene					7.463	14,000	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 092893.14 IW 24.15 SG12

Date/time collected: 9-28-93 1647

Date/time analyzed: 9-28-93 1850

Air vol. analyzed: 1.0

Dilution factor: 10

Analyst(s): CSV

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.413	250,000				
1,1-DCE	1.756	120,000		1.810	260,000	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.263	67,000	
cis-1,2-DCE	3.063	760,000				
Chloroform						
1,1,1-TCA						
benzene						
1,2-DCA				4.190	27,000	
trichloroethene						
toluene						
tetrachloroethene				7.453	18,000	
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

Some saturated peaks

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID:	092853.15	IWT24.19 SG12/50
Date/time collected:	9-28-93	1647
Date/time analyzed:	9-28-93	1915
Air vol. analyzed:	1.0	
Dilution factor:	50	
Analyst(s):	CSV	

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.413	320,000			1.423	790,000	
1,1-DCE	1.753	140,000			1.770	150,000	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA					2.263	63,000	
cis-1,2-DCE	2.937	2,700,000			3.030	1,100,000	
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

DCE peak saturated

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID:	092893.116	IWT24.19 SG8
Date/time collected:	9-28-93	1740
Date/time analyzed:	9-28-93	1945
Air vol. analyzed:	60	
Dilution factor:	10.0	
Analyst(s):	CSV	

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.430	670,000	E			
1,1-DCE	1.780	710,000	E			
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE	2.933	590,000	E			
Chloroform						
1,1,1-TCA						
benzene						
1,2-DCA						
trichloroethene						
toluene	5.713	140,000				
tetrachloroethene	9.420	260,000				
ethyl benzene	11.210	260,000				
m+p-xylene						
o-xylene	14.880	84,000				

FID saturated!

BTEX

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID:	092893.17	IWT24.19SG8
Date/time collected:	9-28-93	1740
Date/time analyzed:	9-28-93	2020
Air vol. analyzed:	1	
Dilution factor:	100.0	
Analyst(s):		

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.370	1,100,000		1.493	2,700,000	
1,1-DCE						
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA						
benzene	3.203	85,000		3.220	350,000	
1,2-DCA				~~3.893~~	~~1,500,000~~	
trichloroethene	3.967	50,000		3.893	1,500,000	
toluene	5.917	72,000		5.683	140,000	
tetrachloroethene	6.870	290,000		7.~~660~~	~~460,000~~	460,000
ethyl benzene	11.490	140,000		11.543	160,000	
m+p-xylene						
o-xylene	15.170	140,000				

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

possible MER & QTEX

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID:	092893.18	IWT 24.19 SG7
Date/time collected:	9-28-93	1808
Date/time analyzed:	9-28-93	2100
Air vol. analyzed:	1.00	
Dilution factor:	1.0	
Analyst(s):	CSU	

		PID				FID	
COMPOUND	RT	RESULTS ppbV	QUAL.		RT	RESULTS ppbV	QUAL.
Vinyl Chloride	1.423	45,000					
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE	3.063	3500					
Chloroform							
1,1,1-TCA							
benzene	3.063	440					
1,2-DCA							
trichloroethene	4.023	6500					
toluene	5.617	21,000					
tetrachloroethene	7.300	53000	E				
ethyl benzene	10.853	10,000					
m+p-xylene							
o-xylene	14.646	16,000					

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FID completely off scale

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID:	092853.19	TW24.19SG7
Date/time collected:	09-28-93	1808
Date/time analyzed:	09-28-93	2145
Air vol. analyzed:	1.0	
Dilution factor:	10	
Analyst(s):	CSU	

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.413	58,000				
1,1-DCE				1.747	280,000	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE	3.073	13,000		2.970	180,000	
Chloroform						
1,1,1-TCA				7.693	40,000	
benzene						
1,2-DCA						
trichloroethene	3.490	3200				
toluene	5.513	16,000		5.577	74,000	
tetrachloroethene	7.100	56,000		8.000	110,000	
ethyl benzene	10.783	7300		11.207	21,000	
m+p-xylene						
o-xylene	14.430	13,000		14.537	39,000	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID:	092893.20	IWT24.19SG7
Date/time collected:	9-28-93	1808
Date/time analyzed:	9-28-93	2210
Air vol. analyzed:	1.0	
Dilution factor:	50	
Analyst(s):	CSV	

	PID			FID		
COMPOUND	RT	RESULTS ppbV	QUAL.	RT	RESULTS ppbV	QUAL.
Vinyl Chloride						
1,1-DCE						
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform				3.080	84,000	
1,1,1-TCA				3.783	~~[illegible]~~	
benzene						
1,2-DCA				3.713	170,000	
trichloroethene				"	"	
toluene	5.750	20,000		5.734	78,000	
tetrachloroethene	7.396	52,000		7.460	350,000	
ethyl benzene	10.723	46,000		10.846	30,000	
m+p-xylene						
o-xylene	14.963	25,000		14.993	40,000	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 092893.21 checkstd
Date/time collected: NA
Date/time analyzed: 9-28-93 / 2235
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): CSV

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride	1.417	11,000			1.467	9300	
1,1-DCE	1.756	11,500			1.817	7600	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA					2.296	9400	
cis-1,2-DCE	2.826	16,800			2.890	14,200	
Chloroform					↕	↕	
1,1,1-TCA					2.890	14,200	
benzene							
1,2-DCA					3.773	10,000	
trichloroethene							
toluene							
tetrachloroethene	6.997	12,600			7.027	9400	
ethyl benzene							
m+p-xylene							
o-xylene							
EDB					10.703	9800	

R.T. off - oven temp high

used incorrect dilution

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 092893.22 chk std

Date/time collected: —

Date/time analyzed: 9-28-93 2310

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s):

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.410	6000		1.433	5100	
1,1-DCE	1.753	5800		1.773	4400	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE	2.826	8500		2.837	10,300	
Chloroform				↑	↑	
1,1,1-TCA				2.837	10,300	
benzene						
1,2-DCA				3.763	5600	
trichloroethene						
toluene						
tetrachloroethene (*)	6.973	6500		7.000	4400	
ethyl benzene						
m+p-xylene						
o-xylene						
EDB				10.670	5100	

R.T. off - oven temp high

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 092893.23 Blank
Date/time collected: —
Date/time analyzed: 09-28-93 / 2335
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): CSU

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride					1.460	1000	
1,1-DCE	1.763	750			1.773	1100	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA					2.250	790	
cis-1,2-DCE					3.160	2000	
Chloroform					↑	↑	
1,1,1-TCA					3.160	2000	
benzene							
1,2-DCA					3.760	700	
trichloroethene							
toluene							
tetrachloroethene	6.960	860			7.020	790	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 092993.01 Blank

Date/time collected: —

Date/time analyzed: 0850 9-29-93

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): CSV

COMPOUND	RT	PID RESULTS ppbV	PID QUAL.		RT	FID RESULTS ppbV	FID QUAL.
		ND					
Vinyl Chloride							
1,1-DCE					1.780	~~340~~ 300	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

small blips

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 092993-02 Blank 2

Date/time collected: —

Date/time analyzed: 0935 9-29-93

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): CSV

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
		ND					
Vinyl Chloride					~~1.8~~ 1.360	~~400~~ 590	
1,1-DCE					~~1.877~~ 1.827	~~[illegible]~~	
Methylene Chloride					~~1.89~~		
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 092993.03 Air Blank

Date/time collected: —

Date/time analyzed: 9-23-93 1010

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): CSV

COMPOUND	RT	PID RESULTS ppbV	PID QUAL.		RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride		ND				ND	
1,1-DCE					1.870	180	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					2.826	280	
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 092993.04 CHK STD

Date/time collected: —

Date/time analyzed: 9-27-93 1035

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): CSV

	COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.	
1.397	Vinyl Chloride	1.377	5700		1.400	4800		1.4[illegible]
1.766	1,1-DCE	1.727	6000		1.747	4200		1.83[illegible]
	Methylene Chloride							
	t-1,2-DCE							
	1,1-DCA				2.240	5100		2.36
2.960	cis-1,2-DCE	2.810	1900		2.830	10,300		
	Chloroform				↓	↕		3.01
	1,1,1-TCA				2.830	10,300		
	benzene							
	1,2-DCA				3.803	5700		4.02
	trichloroethene							
	toluene							
7.643	tetrachloroethene	7.127	6500		7.157	4800		7.61
	ethyl benzene							
	m+p-xylene							
	o-xylene							
	CDB				11.003	4700		11.88

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

Peaks shift

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 092993.05 CheckSTD2
Date/time collected: —
Date/time analyzed: 1115
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): CSV

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.417	~~8000~~ 6000			1.437	~~4500~~ 4200	
1,1-DCE	1.776	~~8000~~ 6100			1.800	~~4000~~ 3600	
Methylene Chloride							
t-1,2-DCE	~~2.913~~	~~4000~~			~~2.932~~	~~10000~~	*
1,1-DCA					2.317	~~4000~~ 4300	
cis-1,2-DCE	2.913	4500			2.923	8700	
Chloroform					↕	↕	
1,1,1-TCA					2.923	8700	
benzene							
1,2-DCA					5.96	~~4000~~ 4200	
trichloroethene							
toluene							
tetrachloroethene	7.46	~~8000~~ 6300			7.483	~~4000~~ 4200	
ethyl benzene							
m+p-xylene							
o-xylene							
EDB					11.550	4300	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

* with 1,1,1 TCA

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 092993.06 IWF24.195G13
Date/time collected: 9-29-93 1055
Date/time analyzed: 9-29-93 1200
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): CSV

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride		DNC			1.373	16,000	*
1,1-DCE	1.796	~~300~~ 350					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					2.930	930 DNC ~~500~~ ~~1200~~	
benzene							
1,2-DCA					3.92	DNC ~~400~~ 390	
trichloroethene							
toluene						DNC	
tetrachloroethene					~~3.957~~	~~700~~ ~~320~~	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

light hydrocarbons

* Hydrocarbons

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID:	092993.07	IWT24.195G14
Date/time collected:	9-29-93	1142
Date/time analyzed:	9-29-93	1240
Air vol. analyzed:	1.0	
Dilution factor:	1.0	
Analyst(s):	CSV	

		PID				FID	
COMPOUND	RT	RESULTS ppbV	QUAL.		RT	RESULTS ppbV	QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene	3.270	42,000	E				
1,2-DCA							
trichloroethene	7.877	17,000					
toluene	6.106	32,000	E				
tetrachloroethene	~~[illegible]~~	~~[illegible]~~					
ethyl benzene	12.440	~~[illegible]~~					
m+p-xylene							
o-xylene	14.907	~~[illegible]~~					

Many unknowns

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

Completely saturate FID
" PID

BREAK

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID:	092993.08	IWT24.19 SG14
Date/time collected:	9-29-93	1142
Date/time analyzed:	9-29-93	1330
Air vol. analyzed:	1.0	
Dilution factor:	10.0	
Analyst(s):	CSV	

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.430	70,000				
1,1-DCE	1.697	2,000		1.827	28,000	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.220	12,000	
cis-1,2-DCE	2.770	51,000				
Chloroform				3.003	21,000	
1,1,1-TCA				~~[illegible]~~ DMC	~~[illegible]~~	
benzene				~~[illegible]~~ DMC	~~[illegible]~~	
1,2-DCA				3.990	4900	
trichloroethene				(3.990	1900)	
toluene				~~5.497~~ ~~[illegible]~~ DMC	~~4500~~ ~~[illegible]~~	
tetrachloroethene	7.083	1700		~~7.073~~	~~[illegible]~~	
ethyl benzene	10.773	3100		11.087	3900	
m+p-xylene						
o-xylene	14.507	170		14.500 ~~11.087~~ DMC	2100 ~~[illegible]~~	
EDB				~~[illegible]~~	~~[illegible]~~	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

Saturated PID+FID

Several peaks over range

BTEX

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 092993.09 IWT~~SG~~ 24.19SG14 /50
Date/time collected: 9-29-93 1142
Date/time analyzed: 9-29-93 1355
Air vol. analyzed: 1.0
Dilution factor: 50.0
Analyst(s): CSV

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
		DMC			1.597		
Vinyl Chloride	1.587	1,500,000 ~~2400,000~~					
1,1-DCE	1.740	27,000 ~~38,000~~ DMC					
Methylene Chloride							
t-1,2-DCE	~~2.88~~	~~770,000~~					
1,1-DCA					2.283	200000	
cis-1,2-DCE	2.850	DMC ~~740,000~~			2.957	840,000	
Chloroform					↑	↑	
1,1,1-TCA					~~2.557~~	~~100,000~~ * DMC	
benzene							
1,2-DCA					3.866 DMC	130,000 ~~80,000~~	
trichloroethene							
toluene							
tetrachloroethene					~~[illegible]~~ DMC	~~[illegible]~~ ~~150,000~~	
ethyl benzene							
m+p-xylene							
o-xylene							
EDB					~~[illegible]~~ DMC	~~[illegible]~~	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

Hydrocarbon on FID

~~* Includes 1,2-DCE~~

(*) not PCE

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID:	092993.10	IWT24195G1
Date/time collected:	9-23-93	1207
Date/time analyzed:	9-23-93	1415
Air vol. analyzed:	1.0	
Dilution factor:	1.0	
Analyst(s):	CS ✓	

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.	
Vinyl Chloride		DNC			1.410	190		*
1,1-DCE	1.773	~~400~~ 500						
Methylene Chloride								
t-1,2-DCE								
1,1-DCA								
cis-1,2-DCE								
Chloroform						DNC		
1,1,1-TCA					2.866	300 ~~470~~ 490		
benzene						DNC		
1,2-DCA					3.577	~~400~~ 640		
trichloroethene								
toluene								
tetrachloroethene					7.947	150		
ethyl benzene								
m+p-xylene								
o-xylene								
EDB					12.200	440		

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

light hydrocarbons on FID

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 092993-11 IWT24.19SG5
Date/time collected: 9-23-93 1535
Date/time analyzed: 9-23-93 1545
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): CSV

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride	1.420	30,000					
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE	2.897	480					
Chloroform							
1,1,1-TCA					2.923	2100	
benzene							
1,2-DCA					3.897	~~3800~~ 1400	
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

Saturate FID Large HC peak (Methane)

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 092993.12 IWT24.19SGS
Date/time collected: 9-29-93 1535
Date/time analyzed: 9-29-93 1610
Air vol. analyzed: 1.0
Dilution factor: 5.0
Analyst(s): CSV

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

Abort did not inject sample

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 092993.13 J WT24.195GS
Date/time collected: 9-29-93 1535
Date/time analyzed: 9-29-93 1615
Air vol. analyzed: 1.0
Dilution factor: 5
Analyst(s): CSU

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.403	~~21,000~~ 31,000		1.516	120,000	*
1,1-DCE						
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE	2.900	12.000				
Chloroform						
1,1,1-TCA				2.940	560	
benzene						
1,2-DCA				3.897	~~2200~~ 1500	
trichloroethene						
toluene						
tetrachloroethene						
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

Liquid Hydrocarbons @ Methane.

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID:	092993.14	IWT24.19566
Date/time collected:	9-29-93	1505
Date/time analyzed:	9-29-93	1640
Air vol. analyzed:	1.0	
Dilution factor:	10.0	
Analyst(s):	CSV	

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.400	34,000				
1,1-DCE				1.763	300,000	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform				(2.883	26,000)	
1,1,1-TCA				2.883	45,000	
benzene				2.203	16,000	
1,2-DCA				(3.887	200,000)	
trichloroethene	3.853	12,000		3.887	130,000	
toluene						
tetrachloroethene	~~[illegible]~~	~~[illegible]~~		~~[illegible]~~	~~[illegible]~~ 13,000	
ethyl benzene	10.566	1,200				
m+p-xylene						
o-xylene				14.973	9900	
EDB				11.640	110,000	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

BTEX

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 092993.15 TWT24.195G54
Date/time collected: 09-29-93 —
Date/time analyzed: 09-29-93 1700
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): CSV

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride	1.437	27,000					
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE	2.843	5900 ~~4300~~					
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene	3.970	31,000					
toluene	5.546	43,000					
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene	14.917	17,000					

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

Completely saturated FID
Saturated PID

BTEX

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 092993.116 IWT24.195G54
Date/time collected: 09-29-93
Date/time analyzed: 9-29-93 1740
Air vol. analyzed: 1.0
Dilution factor: 10.0
Analyst(s): CSV

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.407	~~75,000~~					
1,1-DCE		DNC					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene					≈ 130	73,000	
1,2-DCA						-	
trichloroethene	4.083	6900					
toluene	5.677 DNC	50,000			5.893	230,000	
tetrachloroethene	7.353	~~100,000~~ ~~86,000~~			6.800	120,000	
ethyl benzene	11.133	38,000			10.653	43,000	
m+p-xylene							
o-xylene	14.797	26,000			14.857	61,000	

Many peaks in FID

FID saturated
Many peaks

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 092993.17 IWTG24.195G54 150

Date/time collected: 9-29-93

Date/time analyzed: 9-29-93 1810

Air vol. analyzed: 1.0

Dilution factor: 50.0

Analyst(s): CSV

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.	
Vinyl Chloride	1.397	140,000					
1,1-DCE				1.697	930,000		*
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform				2.803	100,000		*
1,1,1-TCA				~~3.123~~	~~[illegible]~~		
benzene				3.123	72,000		
1,2-DCA				3.770	480,000		*
trichloroethene	3.747	51,000		3.770	750,000		
toluene	5.887	41,000		5.873	300,000		
tetrachloroethene	~~[illegible]~~	~~[illegible]~~		7.097	82,000		*
ethyl benzene				11.100	52,000		
m+p-xylene							
o-xylene	14.150	22,000		14.337	37,000		
EDG				12.040	820,000		

*- probably Hydrocarbon

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

BTEX

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 092993.18 IWT24.19SG4 /10
Date/time collected: 9-29-93 1640
Date/time analyzed: 9-29-93 1830
Air vol. analyzed: 1.0
Dilution factor: 10.0
Analyst(s): CSV

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
	~~1.473~~ DMC	~~1,200,000~~					
Vinyl Chloride	~~1.430~~	~~70,000~~	DMC				
1,1-DCE	~~1.697~~	~~20,000~~	DMC				
Methylene Chloride	~~2.100~~ DMC	~~21,000~~					
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE	2.940	560,000					
Chloroform							
1,1,1-TCA							
benzene					3.256	61,000	E
1,2-DCA							
trichloroethene	3.760	24,000			3.887	180,000	E
toluene	5.856	25,000			5.967	54,000	
tetrachloroethene					7.100	11,000	
ethyl benzene					11.143	12,000	
m+p-xylene							
o-xylene					14.347	5300	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FID detector saturated

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID:	092993.1T	FLUT 24.195G4 /50
Date/time collected:	9-29-93	1640
Date/time analyzed:	9-29-93	1855
Air vol. analyzed:	1.0	
Dilution factor:	50	
Analyst(s):	CSV	

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.420	3,100,000				
1,1-DCE				1.750 (K)	1,400,000	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE	2.857	1300,000		~~2.990~~	DNC ~~1,100,000~~	
Chloroform						
1,1,1-TCA				~~2.990~~	DNC ~~1,100,000~~	
benzene						
1,2-DCA				3.813	540,000	
trichloroethene						
toluene						
tetrachloroethene	~~7.754~~ DNC	~~78,000~~		~~7.990~~	DNC ~~240,000~~	
ethyl benzene						
m+p-xylene						
o-xylene						

Re-do with BTEX Std

(K) Broad peak - BTEX

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 092993.20 IWT24.1SG6 150
Date/time collected: 9-29-93 1505
Date/time analyzed: 9-29-93 1715
Air vol. analyzed: 1.0
Dilution factor: 50.0
Analyst(s): CSV

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
		ND					
Vinyl Chloride							
1,1-DCE	~~1747~~	DMC ~~5400~~					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					2,840 ~~3,130~~	55,000 ~~61,000~~ DMC	
benzene							
1,2-DCA					3800	110,000	
trichloroethene							
toluene							
tetrachloroethene	~~7.717~~	DMC ~~20,000~~			~~7.723~~	DMC ~~190,000~~	
ethyl benzene							
m+p-xylene							
o-xylene							
EDB					~~12.197~~	~~280,000~~	

5 Unknowns

DMC
Many Unknowns

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

possibly BTEX

BTEX

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 092993.22 Check STD Spp.n
Date/time collected: ~
Date/time analyzed: 9-29-93 1945
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): CSV

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride	1.423	~~8000~~ 5000 AMC			1.443	~~5000~~ 4900 AMC	
1,1-DCE	1.770	~~7000~~ 5400			1.793	~~5000~~ 4300 AMC	
Methylene Chloride							
t-1,2-DCE	~~2.86~~ AMC	~~3000~~					
1,1-DCA					2.293	~~5000~~ AMC	
cis-1,2-DCE	2.860	4200			2.877	11,000	
Chloroform							
1,1,1-TCA					~~12000~~ 2.877*	~~2.877~~ 11,000	AMC
benzene							
1,2-DCA					3.873	~~6200~~ 5000	
trichloroethene							
toluene							
tetrachloroethene	7.283	5600***			7.270**	5000***	
ethyl benzene							
m+p-xylene							
o-xylene							
					11.127	4700	

* 1,2-DCE included

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

* shift
*** - calculated & re-integrated

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 092993.23 Blank
Date/time collected: —
Date/time analyzed: 09-29-93 2015
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): CSV

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride		ND					
1,1-DCE					~~SPK~~	~~FFO~~	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

3 Unknowns
probably hydrocarbons

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09309301 / Blank
Date/time collected: NA
Date/time analyzed: 09-30-93 / 0751
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): BMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride		ND				ND	
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09309302 / STD 5 ppm
Date/time collected: NA
Date/time analyzed: 09-30-93 / 0820
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.387	5400		1.410	5000	
1,1-DCE	1.756	5600		1.780	4300	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.320	5300	
cis-1,2-DCE	2.957	9100		2.957	11000	
Chloroform				↕	↕	
1,1,1-TCA				2.957	11000	
benzene						
1,2-DCA				4.010	5700	
trichloroethene						
toluene						
tetrachloroethene	7.617	6300		7.646	5000	
ethyl benzene						
m+p-xylene						
o-xylene						
EDB				11.850	5900	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09309303 / INT 24,19 SGS
Date/time collected: 09-30-93 / 0845
Date/time analyzed: 09-30-93 / 0857
Air vol. analyzed: 1.0
Dilution factor: 10.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

Unknowns

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

off-scale
numerous peaks
BTEX

probably VC & DCE
off-scale

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09309304 / TWT 24.19 563/50
Date/time collected: 09-30-93 / 0845
Date/time analyzed: 09-30-93 / 0922
Air vol. analyzed: 1.0
Dilution factor: 50.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE					1.510	1,500,000	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE	3.100	3,400,000					
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA					3.957	700,000	
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

DTEX

12,000

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09309305 / EWT 24.19 SG3/250

Date/time collected: 09-30-93 / 0845

Date/time analyzed: 09-30-93 / 0945

Air vol. analyzed: 1.0

Dilution factor: 250.0

Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
		~~DMC~~					
		~~12,000,000~~					
Vinyl Chloride	1.403	~~17,000,000~~					
1,1-DCE	~~3.003~~						
Methylene Chloride							
t-1,2-DCE							
1,1-DCA		~~DMC~~					
		~~11,000,000~~					
cis-1,2-DCE	3.003	~~8,000,000~~			3.143	530,000	E
Chloroform					↕		
1,1,1-TCA							
benzene							
1,2-DCA					3.943	300,000	
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09309306 / EWT 24.19 562/10
Date/time collected: 09-30-93 / 0930
Date/time analyzed: 09-30-93 / 1015
Air vol. analyzed: 1.0
Dilution factor: 10.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride		ND					
1,1-DCE	1.763	79.00					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					3.010 ~~2.889~~	15,000 ~~3,000~~ DMC	
benzene						DMC	
1,2-DCA					3.930	~~15~~,000	
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

Large HC peak in FID

Possible Benzene & Toluene

BTEX

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09309307 / IWT 32.5 SG 16
Date/time collected: 09-30-93 / 1112
Date/time analyzed: 09-30-93 / 1127
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride		ND					
1,1-DCE					1,800	500	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE	2.920	520					
Chloroform		ND					
1,1,1-TCA					2.970	1100	
benzene							
1,2-DCA					3.960	110	
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09309308 / SWT 32.8 SB17

Date/time collected: 09-30-93 /

Date/time analyzed: 09-30-93 / 1149

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): BMC

COMPOUND	RT	PID RESULTS ppbV	PID QUAL.		RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride		ND			1.490	110	
1,1-DCE	1.780	370			1.790	580	
Methylene Chloride		ND					
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID:	09309309 09-30-9309 / SWT 32.8 ~~SG58~~ SG54
Date/time collected:	09-30-93 /
Date/time analyzed:	09-30-93 / 1214
Air vol. analyzed:	1.0
Dilution factor:	1.0
Analyst(s):	AMC

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride		ND					
1,1-DCE	1.790	180			1.880	AMC 390	
Methylene Chloride		ND					
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					2.960	AMC 270	
benzene							
1,2-DCA					4.066	AMC 270	
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09309310 / SWT 32,85G 18
Date/time collected: 09-30-93 / 1440
Date/time analyzed: 09-30-93 / 1552
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride		ND					
1,1-DCE					1.827	280	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					3.057	350	
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09309311 / SWT 32.8 5619
Date/time collected: 09-30-93 / 1515
Date/time analyzed: 09-30-93 / 1618
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.763	180			1.820	540	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE					2.997	450	
Chloroform					↕	↕	
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09309312 / SOUT 32.8 SG20
Date/time collected: 09-30-93 / 1540
Date/time analyzed: 09-30-93 / 1639
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride							
1,1-DCE	1.783	1400			1.803	1500 ~~2000~~ DMC	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					3.017	630 ~~1100~~	
benzene						DMC	
1,2-DCA					4.133	120 ~~120~~	
trichloroethene							
toluene							
tetrachloroethene					8.017	260	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

~~possible toluene in FID~~

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09309313 / SWIT 32.8 SG 21
Date/time collected: 09-30-93 / 1633
Date/time analyzed: 09-30-93 / 1705
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.766	260			1.550	690	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

CO_2 + 333

Sample ID: 09309314 / SWT 32.8 5622

Date/time collected: 09-30-93 / 1725

Date/time analyzed: 09-30-93 / 1757

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DMC

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride							
1,1-DCE	1.786	570			1.810	740	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene	7.887	260					
ethyl benzene							
m+p-xylene							
o-xylene							

Re-Do with Method A

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09309315 / SWT 32.8 SG22
Date/time collected: 09-30-93 / 1725
Date/time analyzed: 09-30-93 / 1812
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride					1.510	~~570~~ 210 DMC	
1,1-DCE	1.806	520			1.840	~~1300~~ 640	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					3.030	260	
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							
EDB					~~11.816~~	~~3900~~ DMC	~~JN~~

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09309316 / SWT 32.8 SG 23
Date/time collected: 09-30-93 / 1850
Date/time analyzed: 09-30-93 / 1835
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride							
1,1-DCE	1.796	560			1.803	610	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					3.033	190	
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene	7.847	40,000	X		7.880	66,000	X
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

broad peak possibly from previous injection

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09309317 / Blank Amb. Air
Date/time collected: NA
Date/time analyzed: 09-30-93 / 1850
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): BMC

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride							
1,1-DCE	1.680	1700					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					3.143	110	
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09309318 / Check STD 5 ppm
Date/time collected: NA
Date/time analyzed: 09-30-93 / 1914
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.393	5300		1.417	4800	
1,1-DCE	1.776	4900		1.800	4200	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.353	5000	
cis-1,2-DCE	2.993	4700		3.000	11,000	
Chloroform				↕	↕	
1,1,1-TCA				3.000	11,000	
benzene						
1,2-DCA				4.130	5300	
trichloroethene						
toluene						
tetrachloroethene	7.903	5100		7.936	4800	
ethyl benzene						
m+p-xylene						
o-xylene						
EDB				12.363	5900	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 09309318 / Check Std 5ppm
Date/time collected: NA
Date/time analyzed: 09-30-93 / 1914
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.393	3400		1.417	4800	
1,1-DCE	1.776	3900		1.800	5050	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				3.353	5000	
cis-1,2-DCE	2.993	2400		(3.000)	(12,900)	
Chloroform				↓	↓	
1,1,1-TCA				3.000	12,900	
benzene						
1,2-DCA				4.130	5030	
trichloroethene						
toluene						
tetrachloroethene	7.903	3700		7.936	4800	
ethyl benzene						
m+p-xylene						
o-xylene						
EBS				12.363	5500	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 100193 01 / Blank
Date/time collected: NA
Date/time analyzed: 100193 / 0753
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	RT	PID RESULTS ppbV	PID QUAL.		RT	FID RESULTS ppbV	FID QUAL.
		ND				ND	
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

Hydrocarbon peak

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10019302 / STD 10 PPM
Date/time collected: NA
Date/time analyzed: 10-01-93 / 0815
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.370				1.420		
1,1-DCE	1.750				1.813		
Methylene Chloride							
t-1,2-DCE							
1,1-DCA					2.347		
cis-1,2-DCE	2.967				3.020		
Chloroform							
1,1,1-TCA					3.020		
benzene							
1,2-DCA					4.077		
trichloroethene							
toluene							
tetrachloroethene	7.813				7.847		
ethyl benzene							
m+p-xylene							
o-xylene							
EDB					12.217		

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10019303 / STD 5 ppm
Date/time collected: NA
Date/time analyzed: 10-01-93 / 0849
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.377				1.397		
1,1-DCE	1.753				1.777		
Methylene Chloride							
t-1,2-DCE							
1,1-DCA					2.323		
cis-1,2-DCE	2.960				2.967		
Chloroform							
1,1,1-TCA					2.967		
benzene							
1,2-DCA					4.070		
trichloroethene							
toluene							
tetrachloroethene	7.793				7.827		
ethyl benzene							
m+p-xylene							
o-xylene							
EDB					~~11.855~~ 12.183		

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10019304 / STD 2 ppm
Date/time collected: NA
Date/time analyzed: 10-01-93 / 0911
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.357				1.400		
1,1-DCE	1.756				1.783		
Methylene Chloride							
t-1,2-DCE							
1,1-DCA					2.330		
cis-1,2-DCE	2.970				2.977		
Chloroform							
1,1,1-TCA					2.977		
benzene							
1,2-DCA					4.087		
trichloroethene							
toluene							
tetrachloroethene	7.840				7.867		
ethyl benzene							
m+p-xylene							
o-xylene							
EDB					12.250		

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10019305 / STD 1 PPM
Date/time collected: NA
Date/time analyzed: 10-01-93 / 0933
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.400	1000 ~~95~~		1.390	1200	
1,1-DCE	1.750	1200		1.776	1400	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA		AMC / 740				
cis-1,2-DCE	2.943	~~[illegible]~~		2.963	2000	
Chloroform				↕		
1,1,1-TCA				2.963	2000	
benzene						
1,2-DCA				4.068	950	
trichloroethene						
toluene		AMC				
tetrachloroethene	7.943	6300		7.840	990	
ethyl benzene						
m+p-xylene						
o-xylene						
EDB				12.203	1300	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10019306 / IWT 24.10 SG 1
Date/time collected: 10-01-93 / 0855
Date/time analyzed: 10-01-93 / 1016
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.770	560			1.806	850	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					3.026	280	
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10019307 / EWT 24.10 SG2
Date/time collected: 10-01-93 / 0910
Date/time analyzed: 10-01-93 / 1037
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.	
Vinyl Chloride								
1,1-DCE	1.783	830			1.793	900		
Methylene Chloride								
t-1,2-DCE								
1,1-DCA								
cis-1,2-DCE					~~2.993~~	DMC ~~380~~		
Chloroform					↕	↕		
1,1,1-TCA					2.993	380		
benzene								
1,2-DCA					4.193	130		
trichloroethene								
toluene								
tetrachloroethene					7.833	130.		*
ethyl benzene								
m+p-xylene								
o-xylene								
EDB					12.277	310		*

Probably hydrocarbons

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 0019308 / IWT 2410 SGS
Date/time collected: 10-01-93 / 0933
Date/time analyzed: 10-01-93 / 1100
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.743	240			1.833	300	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform						DMC 450	
1,1,1-TCA					3.026	~~560~~	
benzene						DMC 150	
1,2-DCA					4.203	~~330~~	
trichloroethene							
toluene						DMC 4200	
tetrachloroethene	7.850	3500			7.873	~~4600~~	
ethyl benzene							
m+p-xylene							
o-xylene							
EDB					11.993	450	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10019309 / IWT 24.10 SG4
Date/time collected: 10-01-93 / 1000
Date/time analyzed: 10-01-93 / 1126
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride		ND					
1,1-DCE					1.857	230	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					3.017	460	
benzene							
1,2-DCA					4.127	100	
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10019310 / IWT 24.10 5(63 D)
Date/time collected: 10-01-93 / 0933
Date/time analyzed: 10-01-93 / 1152
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride						DMC 1100	
1,1-DCE	1.776	1400			1.803	~~1400~~	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					3,000	18000	
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene	7.856	2500			7.883	2800	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10019311 / IWT 24.10 SG5
Date/time collected: 10-01-93 / 1130
Date/time analyzed: 10-01-93 / 1229
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	RT	PID RESULTS ppbV	PID QUAL.		RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride		ND			1.467	110	
1,1-DCE					1.843	160	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					3.020	210	
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10019312 / IWT 24.10 566
Date/time collected: 10-01-93 / 1105
Date/time analyzed: 10-01-93 / 1251
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride						
1,1-DCE	1.786	860		1.806	1400	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE				2.923	610	
Chloroform				↕		
1,1,1-TCA						
benzene						
1,2-DCA				4.046	660	
trichloroethene						
toluene						
tetrachloroethene				7.903	300	DMC
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10019313 / IWT 24.105656
Date/time collected: 10-01-93
Date/time analyzed: 10-01-93 / 1312
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.827	170			1.817	970	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE	2.987	550			3.023	850	
Chloroform					↕		
1,1,1-TCA					3.023	~~700~~ 850	
benzene							
1,2-DCA					4.077	160	
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10019314 / IWT 24.11 SG3
Date/time collected: 10-01-93 / 1155
Date/time analyzed: 10-01-93 / 1333
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride				1.427	1000	
1,1-DCE	1.803	1100		1.827	1100	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE	3.003	4300		3.033		
Chloroform						
1,1,1-TCA				3.033	4600	
benzene						
1,2-DCA				4.137	170	
trichloroethene						
toluene						
tetrachloroethene	7.960	220		7.967	250	
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 00019315 / 422 Audit 10ppm
Date/time collected: NA
Date/time analyzed: 10-01-93 / 1358
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): BMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10019316 / 422 Audit 5ppm
Date/time collected: N/A
Date/time analyzed: 10-01-93 / 1419
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

		PID				FID	
COMPOUND	RT	RESULTS ppbV	QUAL.		RT	RESULTS ppbV	QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10019317 / 422 Audit 2 ppm
Date/time collected: N/A
Date/time analyzed: 10-01-93 / 1441
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	RT	PID RESULTS ppbV	PID QUAL.		RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10019318 / 422 Audit 1 ppm
Date/time collected: NA
Date/time analyzed: 10-01-93 / 1503
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

		PID				FID	
COMPOUND	RT	RESULTS ppbV	QUAL.		RT	RESULTS ppbV	QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 0019319 / IWT 24.12 SG2
Date/time collected: 10-01-93 / 1425
Date/time analyzed: 10-01-93 / 1524
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride		ND		1.453	130	
1,1-DCE				1.880	620	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA				3.026	560	
benzene						
1,2-DCA						
trichloroethene						
toluene						
tetrachloroethene				8.003	170	
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: '0019320 / IWT 24.12 SG3
Date/time collected: 10-01-93 / 1435
Date/time analyzed: 10-01-93 / 1545
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.786	1100			1.813	1800	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA					4.060	160	
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10019321 / IWT 24.12 SG4
Date/time collected: 10-01-93 / 1510
Date/time analyzed: 10-01-93 / 1606
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.786	340			1.803	710	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE					3.050		
Chloroform					↕		
1,1,1-TCA					3.050	440	
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							
EDB					12.277	290	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10019322 / IWT 24.12 SG5
Date/time collected: 10-01-93 / 1530
Date/time analyzed: 10-01-93 / 1649
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride						
1,1-DCE	1.796	360		1.810	580	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA						
benzene						
1,2-DCA				4.207	190	
trichloroethene						
toluene						
tetrachloroethene	7.770	200				
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10019323 / Water HS
Date/time collected: NA
Date/time analyzed: 10-01-93 / 1808
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): BMC

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride		ND					
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA					4.077	110	
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10019324 / Check STD 5 ppm
Date/time collected: NA
Date/time analyzed: 10-01-93 / 1856
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): BMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.367	5100		1.393	5300	
1,1-DCE	1.750	4900		1.793	4900	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.323	5700	
cis-1,2-DCE	2.967	5000		2.993		
Chloroform				1.	11,200	
1,1,1-TCA				2.993		
benzene						
1,2-DCA				4.087	5900	
trichloroethene						
toluene						
tetrachloroethene	7.843	5400		7.867	5300	
ethyl benzene						
m+p-xylene						
o-xylene						
EDB				12.270	5700	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10029301 / BTEX 10 PPM
Date/time collected: NA
Date/time analyzed: 10-02-93 / 0834
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	RT	PID RESULTS ppbV	PID QUAL.		RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10029302 / BTEX 5 ppm
Date/time collected: NA
Date/time analyzed: 10-02-93 /
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	RT	PID RESULTS ppbV	PID QUAL.		RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10029303 / BTEX 2 ppm
Date/time collected: N/A
Date/time analyzed: 10-02-93 / 0936
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10029304 / BTEX 1 ppm
Date/time collected: NA
Date/time analyzed: 10-02-93 / 0958
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): MMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10029305 / BTEX 0.5 ppm
Date/time collected: NA
Date/time analyzed: 10-02-93 / 1020
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	RT	PID RESULTS ppbV	PID QUAL.		RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10029306 / BTEX 0.2 ppm
Date/time collected: NA
Date/time analyzed: 10-02-93 / 1041
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	RT	PID RESULTS ppbV	PID QUAL.		RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10029307 / BTEX 0.1 ppm
Date/time collected: NA
Date/time analyzed: 10-02-93 / 1104
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10039301 / Blank

Date/time collected: NA

Date/time analyzed: 10-03-93 / 1002

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride						
1,1-DCE				1.800	250	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA						
benzene						
1,2-DCA						
trichloroethene						
toluene	AMC			AMC		
tetrachloroethene	~~7.657~~	~~200~~		~~7.936~~	~~380~~	
ethyl benzene						
m+p-xylene						
o-xylene				AMC		
EDB				~~7.937~~	~~270~~	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10039302 / STD 5 PPM
Date/time collected: NA
Date/time analyzed: 10-03-93 / 1027
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.393	5000		1.413	5300	
1,1-DCE	1.776	4700		1.800	4800	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE	3.023	7400		3.040	11,200	
Chloroform				↕	↕	
1,1,1-TCA				3.040	11,200	
benzene						
1,2-DCA				4.133	5800	
trichloroethene						
toluene						
tetrachloroethene	7.920	5100		7.957	5800	
ethyl benzene						
m+p-xylene						
o-xylene						
EDB				12.377	7600	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10039303 / IWT 24.12 SG7
Date/time collected: 10-03-93 / 0952
Date/time analyzed: 10-03-93 / 1048
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
					1.276		(*)
Vinyl Chloride							
1,1-DCE	1.993	330			1.843	560	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA					4.223	39.0	
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

(*) Methane

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10039304 / IWT 24.12 SG6
Date/time collected: 10-02-93 / 1803
Date/time analyzed: 10-03-93 / 1114
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.827	150			1.857	260	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE	3.073	290					
Chloroform							
1,1,1-TCA					3.063	780	
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10039305 / SWT 32.8 SG1
Date/time collected: 10-03-93 / 1018
Date/time analyzed: 10-03-93 / 1138
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride						
1,1-DCE	1.803	710		1.833	830	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA						
benzene						
1,2-DCA						
trichloroethene						
toluene						
tetrachloroethene	~~7.840~~ DMC	~~180~~				
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10039306 / SCUT 32.8 SG2
Date/time collected: 10-03-93 / 1220
Date/time analyzed: 10-03-93 / 1238
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride		ND		1.470	150	
1,1-DCE				1.873	240	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.273	140	
cis-1,2-DCE						
Chloroform						
1,1,1-TCA				3.073	330	
benzene						
1,2-DCA				4.163	190	
trichloroethene						
toluene						
tetrachloroethene						
ethyl benzene						
m+p-xylene						
o-xylene						

Hydrocarbons

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10039307 / SWT 32.8 SG3
Date/time collected: 10-03-93 / 1245
Date/time analyzed: 10-03-93 / 1311
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.806	490			1.827	1300	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA					4.140	370	
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10039308 / SWT 32.8 S657
Date/time collected: 10-03-93 / 1250
Date/time analyzed: 10-03-93 / 1333
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
				1.263		⊛
Vinyl Chloride						
1,1-DCE	1.790	460		1.813	920	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE	2.997	1300				
Chloroform						
1,1,1-TCA				3.026	1800	
benzene						
1,2-DCA				4.213	180	
trichloroethene						
toluene						
tetrachloroethene	7.933	300		7.910	190	
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

⊛ Hydrocarbon (Methane)

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10039309 / SWT 32.8 SG4
Date/time collected: 10-03-93 / 1311
Date/time analyzed: 10-03-93 / 1355
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
		ND					
Vinyl Chloride		N.					
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

Methane

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10039310 / SWT 32.8 SG5
Date/time collected: 10-03-93 / 1327
Date/time analyzed: 10-03-93 / 435
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.800	260			1.823	(38,000)	(*)
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA					~~4.090~~ AMC	~~1500~~	
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

(*) Hydrocarbons (Methane)

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10039311 / SWT 32.8 565/10
Date/time collected: 10-03-93 / 1327
Date/time analyzed: 10-03-93 / 1456
Air vol. analyzed: 1.0
Dilution factor: 10.0
Analyst(s): DMC

		PID				FID	
COMPOUND	RT	RESULTS ppbV	QUAL.		RT	RESULTS ppbV	QUAL.
		ND					
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

1 Unknown

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10039312 / SWT 32.5 SG5/100
Date/time collected: 10-03-93 / 1327
Date/time analyzed: 10-03-93 / 1540
Air vol. analyzed: 1.0
Dilution factor: 100.0
Analyst(s): DMC

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
		ND					
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

1 Unknown

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10039313 / SWT 32.8 S65/1000

Date/time collected: _____

Date/time analyzed: _____

Air vol. analyzed: _____

Dilution factor: _____

Analyst(s): _____

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
					1.350		
Vinyl Chloride		ND					
1,1-DCE					1.803	350,000	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

Hydrocarbon peak at 1.350 probably methane

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10039314 / SWT 32.8 SG-6
Date/time collected: 10-03-93 / 1508
Date/time analyzed: 10-03-93 / 1557
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride						ND	
1,1-DCE	1.803	210					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene					6.383	250	
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

Hydrocarbons

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10039315 / SWT 32.8 567
Date/time collected: 10-03-93 / 1516
Date/time analyzed: 10-03-93 / 1618
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride						
1,1-DCE	1.813	440				
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.256	66,000	
cis-1,2-DCE						
Chloroform						
1,1,1-TCA				3.050	35,000	
benzene						
1,2-DCA				4.083	27,000	
trichloroethene						
toluene						
tetrachloroethene						
ethyl benzene						
m+p-xylene						
o-xylene						
EDB				12.417	1600	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

Hydrocarbons off-scale

BTEX

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 0039316 / SWT 32.8 567/10
Date/time collected: 10-03-93 / 1516
Date/time analyzed: 10-03-93 / 1642
Air vol. analyzed: 1.0
Dilution factor: 10.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride						
1,1-DCE	1.813	1800		1.756	300,000	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE				~~2.990~~	~~43,000~~	~~DMC~~
Chloroform				↕	↕	
1,1,1-TCA				2.990	43,000	
benzene						
1,2-DCA				4.110	35,000	
trichloroethene						
toluene						
tetrachloroethene						
ethyl benzene						
m+p-xylene						
o-xylene						

Hydrocarbons

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID:	~~10039316~~ 10039317 / SWT 32.8 SG8
Date/time collected:	10-03-93 / 1536
Date/time analyzed:	10-03-93 / 1704
Air vol. analyzed:	1.0
Dilution factor:	1.0
Analyst(s):	RMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride					1.487	22,000	
1,1-DCE	1.783	360					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE					~~3.023~~	~~660~~	~~RMC~~
Chloroform					↑		
1,1,1-TCA					3.023	660	
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

(*) Hydrocarbons

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10039318 / SCOT 32.8 SG9
Date/time collected: 10-03-93 / 1604
Date/time analyzed: 10-03-93 / 1727
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.810	980					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE	2.947	110					
Chloroform							
1,1,1-TCA							
benzene	~~3.357~~				3.357	27,000	
1,2-DCA					4.077	51,000	
trichloroethene	3.963	820			4.077	62000	
toluene	6.370	1100			6.347	1200	
tetrachloroethene							
ethyl benzene	11.960	760			12.090	790	
m+p-xylene							
o-xylene					15.597	670	
EDB					12.090	11,000	

The first four minutes were saturated in the FID

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10039319 / SWT 82.8 SG9/10
Date/time collected: 10-03-93 / 1604
Date/time analyzed: 10-03-93 / 1752
Air vol. analyzed: 1.0
Dilution factor: 10.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.	
Vinyl Chloride								
1,1-DCE	1.790	2900			1.817	340,000		*
Methylene Chloride								
t-1,2-DCE								
1,1-DCA								
cis-1,2-DCE					3.116	43,000		
Chloroform								
1,1,1-TCA					3.116	43,000		
benzene								
1,2-DCA					3.980	38,000		
trichloroethene					3.980	14,000		
toluene	6.287	2000			6.293	2100		
tetrachloroethene								
ethyl benzene					11.950	2200		
m+p-xylene								
o-xylene					15.547	1000		

* Hydrocarbon

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10039320 / SWT 32.8 SG10
Date/time collected: 10-03-93 / 1632
Date/time analyzed: 10-03-93 / 1817
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): MMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride						
1,1-DCE	1.996	530		1.523	1100	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE	2.970	1600		2.993	2300	
Chloroform				↕	↕	
1,1,1-TCA				2.993	2300	
benzene						
1,2-DCA				4.173	180	
trichloroethene						
toluene						
tetrachloroethene				7.733	290	
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10039321 / SWT 32.8 SG11
Date/time collected: 10-03-93 / ~1700
Date/time analyzed: 10-03-93 / 1838
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.	
Vinyl Chloride					~~1,780~~	DMC ~~28,000~~		*
1,1-DCE	1,810	390			1,780	28,000		*
Methylene Chloride								
t-1,2-DCE								
1,1-DCA								
cis-1,2-DCE								
Chloroform								
1,1,1-TCA								
benzene								
1,2-DCA								
trichloroethene								
toluene								
tetrachloroethene					7,903	1900		
ethyl benzene								
m+p-xylene								
o-xylene								

* probably hydrocarbon

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10039322 / SWF 32.8 SG12
Date/time collected: 10-03-93 / 1716
Date/time analyzed: 10-03-93 /
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	RT	PID RESULTS ppbV	PID QUAL.		RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.790	2.10				ND	
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

Light Hydrocarbon Peak

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10039323 / Blank Amb. Air

Date/time collected: NA

Date/time analyzed: 10-03-93 / 1921

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.790	320			1.820	380	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10039324 / Check STD 5ppm
Date/time collected: NA
Date/time analyzed: 10-03-93 / 1942
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): JMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	.397	4300		1.417	5300	
1,1-DCE	1.750	4100		1.803	4700	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.366	5400	
cis-1,2-DCE	3.030	7000		3.023	10,700	
Chloroform				↕	↕	
1,1,1-TCA				3.023	10,700	
benzene						
1,2-DCA				4.140	5300	
trichloroethene						
toluene						
tetrachloroethene	7.940	3800		7.953	4900	
ethyl benzene						
m+p-xylene						
o-xylene						
EDB				12.380	5500	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10049302 / BTEX 4 ppm

Date/time collected: NA

Date/time analyzed: 10-04-93 / 0759

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DMC

		PID				FID	
COMPOUND	RT	RESULTS ppbV	QUAL.		RT	RESULTS ppbV	QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10049303 / BTEX + MPM

Date/time collected: NA

Date/time analyzed: 10-04-93 / 0822

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): MLC

COMPOUND	RT	PID RESULTS ppbV	PID QUAL.		RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 100493 04 / Check STD 5 ppm
Date/time collected: N/A
Date/time analyzed: 10-04-93 / 0858
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): BMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.410	4900		1.427	5400	
1,1-DCE	1.783	4100		1.806	4400	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE	3.023	7000		3.020	10,600	
Chloroform				↕	↕	
1,1,1-TCA				3.020	10,600	
benzene						
1,2-DCA				4.130	5400	
trichloroethene						
toluene						
tetrachloroethene	7.883	3600		7.913	4400	
ethyl benzene						
m+p-xylene						
o-xylene						
EDB				12.323	4900	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10049305 / Blank
Date/time collected: NA
Date/time analyzed: 10-04-93 / 0932
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): MC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE					1.790	340	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA					2.360	130	
cis-1,2-DCE					3.550	310	
Chloroform							
1,1,1-TCA					3.050	310	
benzene							
1,2-DCA					4.120	210	
trichloroethene							
toluene							
tetrachloroethene	7.807	330			7.913	370	
ethyl benzene							
m+p-xylene							
o-xylene							
EDB					12.323	840	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10049306 / SWT 32.5 SG12 D
Date/time collected: 10-03-93 / 1716
Date/time analyzed: 10-04-93 / 1000
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride		ND					
1,1-DCE					1.793	86.0	JN *
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					3.067	110	
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene		X					
EDB							

(*) probably Hydrocarbon

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10051301 / blank
Date/time collected: NA
Date/time analyzed: 10-05-93 / 0843
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	RT	PID RESULTS ppbV	PID QUAL.		RT	FID RESULTS ppbV	FID QUAL.
						NA	
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10059302 / Check Std 5 PPM
Date/time collected: NA
Date/time analyzed: 10-08-93 / 0904
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC CSV

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.39	4500		1.41	DMC ~~5000~~ 5100	
1,1-DCE	1.766	DMC 4400		1.79	DMC ~~4000~~ 4300	
Methylene Chloride						
t-1,2-DCE	3.00	DMC 7000				
1,1-DCA				2.346	DMC 5000	
cis-1,2-DCE					16,000	
Chloroform						
1,1,1-TCA				3.010	DMC 11000	
benzene						
1,2-DCA				4.100	6000	
trichloroethene						
toluene						
tetrachloroethene	7.837	DMC 4700 ~~5000~~		7.873	DMC 5000	
ethyl benzene						
m+p-xylene						
o-xylene						
EDB				12.253	6100	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID:	10059303 / Tubing Blank
Date/time collected:	NA
Date/time analyzed:	10-05-93 / 0943
Air vol. analyzed:	1.0
Dilution factor:	1.0
Analyst(s):	DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1,793	530			1,820	530	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE					3,147	220	
Chloroform					↑		
1,1,1-TCA					3,147	220	
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10059304 / IWT 24.6 SG2
Date/time collected: 10-05-93 / 0905
Date/time analyzed: 10-05-93 / 1818
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): [illegible]

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.800	160			1.817	580	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA					4.21	80	
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10059305 / IWT 24.6 563
Date/time collected: 10-05-93 / 0925
Date/time analyzed: 10-05-93 / 1040
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC CSK

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
					1.353		*
Vinyl Chloride							
1,1-DCE	1.796	500			1.817	1000	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					3.127	240	
benzene							
1,2-DCA					~~4.157~~ DMC	~~50~~	
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

* - HC peak Methane

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10059306 / IWT 24.6 SG58
Date/time collected: 10-05-93 /
Date/time analyzed: 10-05-93 / 1111
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
					1.503		
Vinyl Chloride							
1,1-DCE	1.786	1200					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA					4.180	300	
trichloroethene							
toluene	6.273				6.327	400	
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

*

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

Hydrocarbons on FID - CSV

*. NC peak

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10059307 / MEK 9.1 ppm
Date/time collected: NA
Date/time analyzed: 10-05-93 / 1135
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	RT	PID RESULTS ppbV	PID QUAL.		RT	FID RESULTS ppbV	FID QUAL.
MEK	2.517				2.576		
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							
MEK							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 0059308 / IWT 24.6 SG4
Date/time collected: 10-05-93 / 1010
Date/time analyzed: 10-05-93 / 1208
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): BMC.

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
				1.347		*
Vinyl Chloride						
1,1-DCE	1.773	500		1.790	1300	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA						
benzene						
1,2-DCA				4.153	700	
trichloroethene						
toluene						
tetrachloroethene	7.780	220		7.910	220	
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

hydroC peak on FID NC peak

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10059309 / INT 24.6 561
Date/time collected: 10-05-93 / 1025
Date/time analyzed: 10-05-93 /
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	RT	PID RESULTS ppbV	PID QUAL.		RT	FID RESULTS ppbV	FID QUAL.
					1.617		*
Vinyl Chloride		~~ND~~ CSV				ND	
1,1-DCE	1.790	~~200~~ HC					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

CSV
light hydrocarbon on FID

* - HC peak

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10059310 / INT 24.5 SG3
Date/time collected: 10-05-93 / 1115
Date/time analyzed: 10-05-93 / 1338
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	6.793	900					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA					4.173	100	
trichloroethene							
toluene	6.405	100			6.323	100	
tetrachloroethene							
ethyl benzene	12.190	100					
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

CSV

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10059311 / IWT 24.5 SG5
Date/time collected: 10-05-93 / 1411
Date/time analyzed: 10-05-93 / 1416
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
					1.363		*
Vinyl Chloride		ND				ND	
1,1-DCE					1.806	530	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

CSU
light HCon FID
*- Methane

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 0059312 / IWT 24.5 SG4
Date/time collected: 10-05-93 / 1430
Date/time analyzed: 10-05-93 /
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMR

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride				1.403	11,000	X
1,1-DCE	1.790	160		1.800	1400	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE				2.987	700	
Chloroform				↑	↑	
1,1,1-TCA				2.987	700	
benzene						
1,2-DCA						
trichloroethene						
toluene						
tetrachloroethene						
ethyl benzene						
m+p-xylene						
o-xylene						

Hydrocarbon

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 0059313 / IWT 24.12 SG8
Date/time collected: 10-05-93 / 1515
Date/time analyzed: 10-05-93 / 1626
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
					.546		*
Vinyl Chloride						ND	
1,1-DCE	1.800	300					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene	11.843	400					
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

HC on FID * HC peak

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10057314 / IWT 24.12 569
Date/time collected: 10-05-93 / 1530
Date/time analyzed: 10-05-93 /
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): BMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
					1.367		*
Vinyl Chloride							
1,1-DCE	1.806	500			1.820	900	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

HC on FID
051

* - Methane

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10059315 / DWT 2.4.12 SG10
Date/time collected: 10-05-93 / 1550
Date/time analyzed: 10-05-93 / 1709
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMA

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
				1.370		*
Vinyl Chloride		AMA			AMA	
1,1-DCE	1.513 ~~1.523~~	~~[illegible]~~ ~~700~~		1.523	~~5[illegible]~~	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform					AMA	
1,1,1-TCA				3.073	170 ~~120~~	
benzene						
1,2-DCA					-	
trichloroethene						
toluene						
tetrachloroethene				7.936	180	
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

HC peak on FID

* - Methane

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10059316 / IWT 24.12 SG59
Date/time collected: 10-05-93 /
Date/time analyzed: 10-05-93 / 1730
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
					1.363		*
Vinyl Chloride							
1,1-DCE	1.806	290			1.817	750	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					3.033	290	
benzene							
1,2-DCA						-	
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

*- HC peak? Methane

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10059317 / IWT 24.12-SG11
Date/time collected: 10-05-93 / 1455
Date/time analyzed: 10-05-93 / 1755
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.	
					1.353			*
Vinyl Chloride								
1,1-DCE	1.773	280						
Methylene Chloride								
t-1,2-DCE								
1,1-DCA					~~4.120~~			
cis-1,2-DCE								
Chloroform								
1,1,1-TCA								
benzene								
1,2-DCA					4.120	16.0		
trichloroethene								
toluene								
tetrachloroethene	7.617	190						
ethyl benzene								
m+p-xylene								
o-xylene								

* - Methane

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10059318 / IWT 24.12 SG12
Date/time collected: 10-05-93 / 1720
Date/time analyzed: 10-05-93 / 1817
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
					1.350		*
Vinyl Chloride							
1,1-DCE	1.793	360			1.806	430	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					3.010	350	
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

* HC peak

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10059319 / TWT 24.12 SG1
Date/time collected: 10-05-93 / 1748
Date/time analyzed: 10-05-93 / 1850
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
					1.343		*
Vinyl Chloride							
1,1-DCE	1.500	22.0			1.503	430	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA						-	
trichloroethene							
toluene							
tetrachloroethene					8.010	130	
ethyl benzene							
m+p-xylene							
o-xylene							

* HC peak

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10059320 / Blank
Date/time collected: NA
Date/time analyzed: 10-05-93 / 1911
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): BMC

COMPOUND	RT	PID RESULTS ppbV	PID QUAL.		RT	FID RESULTS ppbV	FID QUAL.
		ND					
Vinyl Chloride							
1,1-DCE					1.863	100	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10059321 / Check STD 5 PPM
Date/time collected: NA
Date/time analyzed: 10-05-93 / 1932
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.400	4200		1.420	5200	
1,1-DCE	1.783	3700		1.806	4500	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.366	5300	
cis-1,2-DCE	3.037	600		3.026	10,000	
Chloroform				↑	↑	
1,1,1-TCA				3.026	10,000	
benzene						
1,2-DCA				4.140	5100	
trichloroethene						
toluene						
tetrachloroethene	7.923	2900		7.970	3700	
ethyl benzene						
m+p-xylene						
o-xylene						
EDB				12.403	4200	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 100693.02 Span chk std

Date/time collected: ~

Date/time analyzed: 100695.02 0910

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): CSJ

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.42	5200 ~~4000~~		1.437	5500 ~~5000~~ DNC	
1,1-DCE	1.79	~~4000~~ 3750		1.820	4500 ~~5000~~ DNC	
Methylene Chloride						
t-1,2-DCE	~~3.04~~	~~5000~~				
1,1-DCA				2.377	5500 ~~5000~~ DNC	
cis-1,2-DCE	3.040	6700		3.040	10000	
Chloroform				↕	↕	
1,1,1-TCA				3.040	10,000	
benzene						
1,2-DCA				4.150	5600 ~~6000~~ DNC	
trichloroethene						
toluene						
tetrachloroethene	7.93	3600 ~~4000~~		7.957	4100 ~~4000~~	
ethyl benzene						
m+p-xylene						
o-xylene						
EDB				12.410	4200	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

oil Gas VOC by GC PID/FID

Spa chk std

0910

.TS V	QUAL.		RT	FID RESULTS ppbV	QUAL.
			1.437	5300 ~~5000~~ AMC	
3750			1.820	4500 ~~5000~~ AMC	
			2.377	5300 ~~5000~~ AMC	
			3.040	10000	
			↕	↕	
			3.040	10,000	
			4.150	5600 ~~6000~~ AMC	
3600 ~~4000~~			7.957	4100 ~~4000~~	
			12.410	4200	

ge
e
e given

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 100693-03 ~~100916~~ IWT 24.7 SG1

Date/time collected: 10-6-93 1005

Date/time analyzed: 10-6-93 1020

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): CSU

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride		ND				ND	
1,1-DCE					1.843	460	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

hydrocarbon on FID

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 100643.04 IWT247SG2
Date/time collected: 10-6-93 1050
Date/time analyzed: 10-6-93 1145
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): CSV

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride		~~[illegible]~~					
1,1-DCE	1.837	~~[illegible]~~ 300			1.843	700	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					3.050	300	
benzene							
1,2-DCA						-	
trichloroethene							
toluene	~~[illegible]~~	~~[illegible]~~ DMC			6.407	100	
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

HC on FID

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 100693.05 IWT24-7SG3
Date/time collected: 10-6-93 1110
Date/time analyzed: 10-6-93 1210
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): CSV

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride							
1,1-DCE	1.790	400			1.813	1000	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 100693.06 IWT24.7SG4
Date/time collected: 10-6-93 1028
Date/time analyzed: 10-6-93 1230
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): CSV

on computer as SG3

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
					1.337		*
Vinyl Chloride							
1,1-DCE	1.523	200			1.860	620	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform						DNC	
1,1,1-TCA					3.03	310	
benzene							
1,2-DCA						-	
trichloroethene							
toluene	6.397	100			6.44 ~~6.397~~	100 ~~100~~	
tetrachloroethene					8.017	210	
ethyl benzene							
m+p-xylene							
o-xylene							

* - Methane

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 100693 07 IWT24-7 SG60

Date/time collected: 10-6-93 —

Date/time analyzed: 10-6-93 1755

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): CSV

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.	
					1.393			*
					1.670			*
Vinyl Chloride								
1,1-DCE	1.81	~~300~~ 260						
Methylene Chloride								
t-1,2-DCE								
1,1-DCA								
cis-1,2-DCE								
Chloroform								
1,1,1-TCA								
benzene								
1,2-DCA								
trichloroethene								
toluene								
tetrachloroethene					8.023	2.60		
ethyl benzene								
m+p-xylene								
o-xylene								

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

* Hydrocarbon on FID

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 100693.08 TWT24.85G1
Date/time collected: 10-6-93 1515
Date/time analyzed: 10-6-93 1545
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): CSV

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
					1.387		*
Vinyl Chloride		ND				ND	
1,1-DCE					~~1.887~~		
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

HC on FID * - HC peak

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 100693.09 TWT 24.8 SG2
Date/time collected: 10-6-93 1520
Date/time analyzed: 10-6-93 1610
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): CSV

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
					1.556		*
Vinyl Chloride							
1,1-DCE	1.820	~~3000~~ HC					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

large low HC peak on FID cannot resolve DCE

* Large HC peak

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: IWT245562 100693.10

Date/time collected: 10-6-93 1520

Date/time analyzed: 10-6-93

Air vol. analyzed:

Dilution factor: 1

Analyst(s):

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 100693.10 IWT24.8 SG2
Date/time collected: 10-6-93 1520
Date/time analyzed: 10-6-93 1635
Air vol. analyzed: 1.0
Dilution factor: 5.0
Analyst(s): CSV

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
					1.413		
Vinyl Chloride							
1,1-DCE	1.81	1400			1.84	500	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

*

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

HC on FID Large HC peak

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 100693.12 IWT248SG3

Date/time collected: 10-6-93 1530

Date/time analyzed: 10-6-93 1700

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): CSV

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
					1.53 E		
Vinyl Chloride							
1,1-DCE	1.51	600					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

HCon FID large HC peak

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 100693.13 ~~IWT SG~~ 24.8 SG3D Duplicate

Date/time collected: 10-6-93 1530

Date/time analyzed: 10-6-93 1730

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): CSU

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
		ND					
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene	~~6.373~~ DMC	~~1000~~			~~6.380~~ ~~6.375~~	~~1200~~ CSU ~~1000~~	
tetrachloroethene							
ethyl benzene	~~1207~~ DMC	~~1000~~					
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

HC on FID
Large HC peak

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID:	1006-93.14	IWT24.8 SG3 1:10
Date/time collected:	10-6-93	1530
Date/time analyzed:	10-6-93	1750
Air vol. analyzed:	1.0	
Dilution factor:	~~1.0~~ 10	DF = 5 in
Analyst(s):	CSV	integrator

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.	
					1.647			*
Vinyl Chloride								
1,1-DCE		ND						
Methylene Chloride								
t-1,2-DCE								
1,1-DCA								
cis-1,2-DCE								
Chloroform								
1,1,1-TCA					3.103	~~7200~~ 1100		
benzene								
1,2-DCA								
trichloroethene								
toluene								
tetrachloroethene					5.000	~~1800~~ 110		
ethyl benzene								
m+p-xylene								
o-xylene								

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

HC on FID
*- Large HC peak

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 100693.15 IWT 24-8 SG4
Date/time collected: 10-6-93 1705
Date/time analyzed: 10-6-93 1815
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): CSV

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride					1.43	1000*	
1,1-DCE		✓			1.88	460	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

✓ looks like DCE peak but off 0.1 min

* maybe low hydrocarbon

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 100693.16 TWT24.8SG5
Date/time collected: 10-6-93 1720
Date/time analyzed: 10-6-93 1835
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): CSV

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride					1.410	9000	*
1,1-DCE	1.85	~~300~~ 130 ~~2000~~ CSV			1.863	800	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene					6.476		
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FID has light hydrocarbons

* - Methane

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 100693.17 IWT.24-8 SG6
Date/time collected: 10-6-93 1740
Date/time analyzed: 10-6-93 1900
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): CSV

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
					1.573		(*)
Vinyl Chloride		~~DNC~~					
1,1-DCE	1.813	~~1000~~ 200					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene					6.377	100	
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

large HC on FID

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 100693.18 TWT24.8567
Date/time collected: 10-6-93 1757
Date/time analyzed: 10-6-93 1925
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): CSV

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride					1.457	17,000	*
1,1-DCE	1.793	800			1.796	3000	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE					3.026	~~1000~~ 760	
Chloroform					↑	↑	
1,1,1-TCA					3.026	~~1000~~ 760	
benzene							
1,2-DCA							
trichloroethene							
toluene					6.44	100	
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

*- Methane

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID:	100693.19	IWT24-85G7
Date/time collected:	10-6-93	1757
Date/time analyzed:	10-6-93	1945
Air vol. analyzed:	1.0	
Dilution factor:	5.0	
Analyst(s):	CSV	

	PID			FID			
COMPOUND	RT	RESULTS ppbV	QUAL.	RT	RESULTS ppbV	QUAL.	
Vinyl Chloride				1.383	44,000		*
1,1-DCE	1.796	1900		1.823	5900		
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA				3.020	2600		
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

* - Methane

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 100693.20 JWT24.85G61

Date/time collected: 10-6-93 —

Date/time analyzed: 10-6-93 2005

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): CSV

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.	
Vinyl Chloride		DMC			1.483	183		*
1,1-DCE	1.766	240						
Methylene Chloride								
t-1,2-DCE								
1,1-DCA								
cis-1,2-DCE								
Chloroform								
1,1,1-TCA								
benzene								
1,2-DCA								
trichloroethene								
toluene								
tetrachloroethene								
ethyl benzene								
m+p-xylene								
o-xylene								

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

large HC on FID

*- Methane

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 100693.21 SPPM CHKSTD

Date/time collected: —

Date/time analyzed: 10-6-93 2030

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): CSV

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.430	3900		1.453	5000	
1,1-DCE	1.500	3300		1.823	4400	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.360	5200	
cis-1,2-DCE	3.013	4800		2.987	10,000	
Chloroform				↕	↕	
1,1,1-TCA				2.987	10,000	
benzene						
1,2-DCA				4.040	5700	
trichloroethene						
toluene						
tetrachloroethene	7.633	2900		7.653	4400	
ethyl benzene						
m+p-xylene						
o-xylene						
EDB				11.797	4800	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 100693.22 Blank

Date/time collected:

Date/time analyzed: 10-6-93 2050

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): CSV

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride				1.487	680	
1,1-DCE	1.796	200		1.806	660	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.320	240	
cis-1,2-DCE				2.880	230	
Chloroform				↕	↕	
1,1,1-TCA				2.880	230	
benzene						
1,2-DCA				4.053	280	
trichloroethene						
toluene						
tetrachloroethene				7.650	190	
ethyl benzene						
m+p-xylene						
o-xylene						
EDB				11.597	140	

Carry-Over from Standard

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 100693.23 Blank
Date/time collected: —
Date/time analyzed: 10-6-93 2110
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): CSV

COMPOUND	RT	PID RESULTS ppbV	PID QUAL.		RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride		ND				ND	
1,1-DCE					1.810	1.0	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 100793.01 Blank

Date/time collected: —

Date/time analyzed: 10-7-93 0930

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): CSV

COMPOUND	RT	PID RESULTS ppbV	PID QUAL.		RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride		ND				ND	
1,1-DCE					1.793	12.0	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10093.02 5ppm ChkSTD
Date/time collected: –
Date/time analyzed: 10-7-93 0952
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): CSV

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.423	3800 ~~4000~~ DNC		1.443	DNC 4800 ~~5000~~	
1,1-DCE	1.793	3500 ~~3000~~ DNC		1.817	DNC 4100 ~~4000~~	
Methylene Chloride						
t-1,2-DCE	~~2.99~~ DNC	~~7000~~				
1,1-DCA				2.360	5000	
cis-1,2-DCE	2.790	6100		2.993	DNC 4800 ~~10000~~	
Chloroform				↑	↑	
1,1,1-TCA				2.993	DNC 4500 ~~10000~~	
benzene						
1,2-DCA				4.057	DNC 5100 ~~5000~~	
trichloroethene						
toluene						
tetrachloroethene	DNC 7.683	3100 ~~3000~~		7.717	DNC 4200 ~~4000~~	
ethyl benzene						
m+p-xylene						
o-xylene						
EDB				11.903	4300	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 100793.03 IWT24.95G3
Date/time collected: 10-7-93 0900
Date/time analyzed: 10-7-93 1020
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): CSV

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride		DNC					
1,1-DCE	1.81	680 ~~700~~				*	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene		DNC					
tetrachloroethene	7.92	270			7.963	400	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FID saturated with low hydrocarbons

* covered by low end hydrocarbon peak

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 100793.04 IWT 24.95G2
Date/time collected: 10-7-93 0931
Date/time analyzed: 10-7-93 1043
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): CSV

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
					1.373		*
Vinyl Chloride							
1,1-DCE	1.803	~~800~~ 760 DMC			1.84	700	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene					3.44	40	
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene	7.936	880 DMC			7.990	~~2000~~ 1800	
ethyl benzene	~~11.78~~	~~300~~					
m+p-xylene	DMC						
o-xylene	~~11.10~~	~~200~~			~~15.59~~ DMC	~~40~~	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

hydrocarbon peak on FID

* Methane

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 100793.05 EWT24.95G1
Date/time collected: 10-7-93 0940
Date/time analyzed: 10-7-93 1105
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): csV

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride				1.463	12,000	*
1,1-DCE	.860			1.900	~~8~~ 900	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA				3.107	~~300~~ 25K	
benzene						
1,2-DCA						
trichloroethene	4.273	690		4.303	170	
toluene		~~[illegible]~~				
tetrachloroethene	7.967	~~[illegible]~~ 770		8.023	1000	
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

peak near DCE on PID

* - probably methane

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 100793.06 IWT 249 SG4
Date/time collected: 10-7-93 0950
Date/time analyzed: 10-7-93 1125
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): CSV

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride		~~[illegible]~~					
1,1-DCE	1.823	~~1000~~ 760			1.770	masked	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene	~~6.360~~	~~[illegible]~~ 200			~~6.360~~ 6.410	20	
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

large carbon peak on FID

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10079307 IWT24.9 SG162

Date/time collected: 10-7-93 —

Date/time analyzed: 10-7-93 1145

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): CSU

COMPOUND	RT	PID RESULTS ppbV	QUAL.	RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride		ND		1.413	8700	*
1,1-DCE				1.903	4660	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA						
benzene						
1,2-DCA						
trichloroethene						
toluene						
tetrachloroethene						
ethyl benzene						
m+p-xylene						
o-xylene						

* HC peak on FID

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 100793.08 IWT24.8 SG9
Date/time collected: 10-7-93 1110
Date/time analyzed: 10-7-93 1145
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): CSU

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride		DNC			1.430	4900	*
1,1-DCE	1.85	~~[illegible]~~ 530			1.877	1800	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform						DNC	
1,1,1-TCA					3.006	~~880~~	
benzene						DNC	
1,2-DCA					4.213	~~240~~ 2.40	
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene	~~1.735~~	~~500~~					
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

* FID was C_1-C_4 spike

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID:	100793.09	IWT2483SG8
Date/time collected:	10-7-93	~~SG~~ 1130
Date/time analyzed:	10-7-93	1305
Air vol. analyzed:	1.0	
Dilution factor:	1.0	
Analyst(s):	CSV	

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
					1.480		*
Vinyl Chloride					1.480	19,000	
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					2.933	100	
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene	7.683	DNC ~~[illegible]~~ 210			7.660	390	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

large C_1-C_6 Methane peak on FID

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID:	100793.1D	TWT24.115G1
Date/time collected:	10-7-93	1115
Date/time analyzed:	10-7-93	1530
Air vol. analyzed:	1.0	
Dilution factor:	1.0	
Analyst(s):	CSV	

		PID				FID	
COMPOUND	RT	RESULTS ppbV	QUAL.		RT	RESULTS ppbV	QUAL.
		ND					
Vinyl Chloride							
1,1-DCE	~~1757~~	~~500~~					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA					4.11	100	
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

large hydro Carbon peak on FID

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID:	100793.11	IWT.24.115G2
Date/time collected:	10-7-93	1205
Date/time analyzed:	10-7-93	1350
Air vol. analyzed:	1.0	
Dilution factor:	1.0	
Analyst(s):	CSV	

		PID				FID	
COMPOUND	RT	RESULTS ppbV	QUAL.		RT	RESULTS ppbV	QUAL.
Vinyl Chloride							
1,1-DCE	1.8076	600 ~~2000~~ CSV				*	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					2.99	320	
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

* Saturated Peaked FID mask DCE

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 100793.12 INT 24.11 564
Date/time collected: 10-7-93 1520
Date/time analyzed: 10-7-93 1525
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): CSV

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
		ND			1.523		*
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

* Hydrocarbon (Methane) on FID

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 100793.13 IWI24.11 SG7

Date/time collected: 10-7-93 1545

Date/time analyzed: 10-7-93 1555

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): CSU

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
					1.597		(*)
Vinyl Chloride		ND					
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

(*) Probably Methane

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 100793.14 SWT 37.3 SG4
Date/time collected: 10-7-93 1645
Date/time analyzed: 10-7-93 1650
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): CSV

COMPOUND	RT	PID RESULTS ppbV	PID QUAL.		RT	FID RESULTS ppbV	FID QUAL.	
					1.423	18,000		Methane
Vinyl Chloride								
1,1-DCE								
Methylene Chloride								
t-1,2-DCE								
1,1-DCA		~~380~~			3.997	260 ~~300~~	DMC	
cis-1,2-DCE								
Chloroform								
1,1,1-TCA								
benzene								
1,2-DCA								
trichloroethene								
toluene								
tetrachloroethene					7.960	~~4000~~ 3800	DMC	
ethyl benzene								
m+p-xylene								
o-xylene								
EDB					11.613	8700		

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

Many peaks at end of run

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 100793.15 SWT32.3SG3
Date/time collected: 10-7-93 1735
Date/time analyzed: 10-7-93 1750
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): CSV

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.793	550			1.883	44,000	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA					3.930	6700	
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							
					11.693	4200	

Probably Hydrocarbons

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 100793.16 CHK STD
Date/time collected: —
Date/time analyzed: 10-7-93 1815
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): CSV

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.410	4000		1.430	4400	
1,1-DCE	1.775	3500		1.800	5800	
Methylene Chloride						
t-1,2-DCE	3.010	4200				
1,1-DCA				2.340	4300 ~~5000~~	
cis-1,2-DCE				2.97	~~8800~~ 8900	
Chloroform				↕	↑ 8900	
1,1,1-TCA				2.97	~~8800~~	
benzene						
1,2-DCA				4.040	~~5000~~ 5300	
trichloroethene	7.703	3000				
toluene	CSV					
tetrachloroethene	7.703	3200		7.733	~~4600~~ ~~4000~~ 5200	
ethyl benzene						
m+p-xylene						
o-xylene					4600	
EDB				12.037	~~2700~~	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 100793.17 Blank
Date/time collected: — NA
Date/time analyzed: 10-7-93 1650
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): CSV

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
		ND				
Vinyl Chloride				1.473	310	
1,1-DCE				1.847	170	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA				2.963	110	
benzene						
1,2-DCA				4.200	170	
trichloroethene						
toluene						
tetrachloroethene						
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10119301 / Blank
Date/time collected: 10-11-93
Date/time analyzed: 10-11-93
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC.

COMPOUND	RT	PID RESULTS ppbV	PID QUAL.		RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

Aborted

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10119302 / Blank

Date/time collected: NA

Date/time analyzed: 10-11-93 / 1125

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
		ND			ND	
Vinyl Chloride						
1,1-DCE				~~1.856~~	DMC ~~140~~	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA						
benzene						
1,2-DCA						
trichloroethene						
toluene	7.813	DMC 350				
tetrachloroethene	~~7.813~~	~~350~~				
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10119303 / Blank

Date/time collected: NA

Date/time analyzed: 10-11-93

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): MMC

COMPOUND	RT (PID)	RESULTS ppbV (PID)	QUAL. (PID)		RT (FID)	RESULTS ppbV (FID)	QUAL. (FID)
						U	
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene	7.807	150					
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10169304 / Blank
Date/time collected: NA
Date/time analyzed: 10-11-93 /
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	RT	PID RESULTS ppbV	PID QUAL.		RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride					1.787	1000	
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene	7.800	80					
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10119305 / Check STD 5 ppm
Date/time collected: NA
Date/time analyzed: 10-11-93 / 1226
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMA

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.407	7100		1.400	3500	
1,1-DCE	1.827	2800		1.780	3000	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.340	5800	
cis-1,2-DCE	3.103	8000		2.983	11000	
Chloroform					↑	
1,1,1-TCA				2.983	11000	
benzene						
1,2-DCA				4.090	9000	
trichloroethene						
toluene						
tetrachloroethene	5.023	4800		7.860	4400	
ethyl benzene						
m+p-xylene						
o-xylene						
EDB				12.247	4300	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10119306 / Check STD 2 ppm

Date/time collected: NA

Date/time analyzed: 10-11-93 / 1248

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.393	4050		1.417	1400	
1,1-DCE	1.776	2100		1.796	1400	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.353	2900	
cis-1,2-DCE	3.037	6200		2.993	4800	
Chloroform						
1,1,1-TCA				2.993	4800	
benzene						
1,2-DCA				4.103	2800	
trichloroethene						
toluene						
tetrachloroethene	7.986	3350		7.863	7000	
ethyl benzene						
m+p-xylene						
o-xylene						
EDB				12.216	1700	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10119307 / IWT 24.2 SGY
Date/time collected: 10-11-93 / 1102
Date/time analyzed: 10-11-93 / 1309
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.	
Vinyl Chloride	1.360	3850			1.390	17,000		*
1,1-DCE	1.760	1400						
Methylene Chloride								
t-1,2-DCE								
1,1-DCA								
cis-1,2-DCE								
Chloroform								
1,1,1-TCA								
benzene								
1,2-DCA								
trichloroethene	4.146	70						
toluene								
tetrachloroethene								
ethyl benzene								
m+p-xylene								
o-xylene								

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

* - Hydrocarbons

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10119308 / IWT 24.2 SG6
Date/time collected: 10-11-93 / 1055
Date/time analyzed: 10-11-93 / 1342
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): BMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.	
Vinyl Chloride								
1,1-DCE					1.740	29,000		⊗
Methylene Chloride								
t-1,2-DCE								
1,1-DCA								
cis-1,2-DCE								
Chloroform								
1,1,1-TCA					2.970	1000		
benzene								
1,2-DCA								
trichloroethene	4.150	260			4.157	60		
toluene								
tetrachloroethene	7.893	2200			7.890	2100		
ethyl benzene								
m+p-xylene								
o-xylene								

⊗ - Hydrocarbon

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10119309 / IWT 24.2 SG-6/10
Date/time collected: 10-11-93 / 1055
Date/time analyzed: 10-11-93 / 1428
Air vol. analyzed: 1.0
Dilution factor: 10.0 ⊛
Analyst(s): BMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.377	7900		1.380	14,000	
1,1-DCE	1.760	1900		1.776	2300	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA						
benzene						
1,2-DCA						
trichloroethene	4.143	50				
toluene						
tetrachloroethene	7.753	6000		7.753	3300	
ethyl benzene						
m+p-xylene						
o-xylene						

⊛ - Dilution factor not included on integrator report

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10119310 / IWT 24.2 SG6/10 RE
Date/time collected: 10-11-93 / 1055
Date/time analyzed: 10-11-93 / 1450
Air vol. analyzed: 1.0
Dilution factor: 10.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.350	17,000		1.330	27,000	⊗
1,1-DCE	1.760	3600				
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.230	10,000	
cis-1,2-DCE						
Chloroform						
1,1,1-TCA						
benzene						
1,2-DCA				4.150	730	
trichloroethene	4.140	900				
toluene						
tetrachloroethene	7.760	5600		7.803	3800	
ethyl benzene						
m+p-xylene						
o-xylene						

⊗ - Hydrocarbon

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10119311 / IWT 24.2 SG8
Date/time collected: 10-11-93 / 1015
Date/time analyzed: 10-11-93 / 1514
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
				2.010		⊛
Vinyl Chloride						
1,1-DCE	1.763	470				
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA						
benzene						
1,2-DCA						
trichloroethene	4.137	100				
toluene						
tetrachloroethene	7.710	5				
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

⊛ Huge Hydrocarbon peak

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10119312 / IWT 24.2 SG7
Date/time collected: 10-11-93 / 1025
Date/time analyzed: 10-11-93 / 1538
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.360	3700		1.410	20,000	
1,1-DCE	1.830	3400	E	1.780	3800	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE	2.940	980		2.973	1400	
Chloroform						
1,1,1-TCA						
benzene						
1,2-DCA				4.163	490	
trichloroethene	4.146	1100		4.170	260	
toluene						
tetrachloroethene	7.807	3300	E	7.813	1500	
ethyl benzene						
m+p-xylene						
o-xylene						

⊛ - Hydrocarbon

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10119313 / IWT 24.2 SG7/5
Date/time collected: 10-11-93 / 1025
Date/time analyzed: 10-11-93 / 1559
Air vol. analyzed: 1.0
Dilution factor: 5.0
Analyst(s): BMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.360	9000				
1,1-DCE	1.766	9100		1.783	5900	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA				3.017	3600	
benzene						
1,2-DCA				4.183	1000	
trichloroethene	4.153	1000		4.180	420	
toluene						
tetrachloroethene	7.790	2900		7.807	2000	
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10119314 / IWT 24.2 SG 63
Date/time collected: 10-11-93 / ?
Date/time analyzed: 10-11-93 / 1620
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride						
1,1-DCE	1.810	830	E			
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE	2.970	3200		2.993	2400	
Chloroform						
1,1,1-TCA						
benzene						
1,2-DCA						
trichloroethene	4.200	1600	E	4.200	520	
toluene						
tetrachloroethene	7.957	4200	E	7.827	2700	
ethyl benzene						
m+p-xylene						
o-xylene						

large hydrocarbon peak

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10119315 / IWT 24.2 SG 63/10
Date/time collected: 10-11-93 / ?
Date/time analyzed: 10-11-93 / 1642
Air vol. analyzed: 1.0
Dilution factor: 10.0
Analyst(s): BMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.343	56,000		1.377	190,000	⊛
1,1-DCE	1.763	2000				
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA						
benzene						
1,2-DCA				4.183	1500	
trichloroethene	4.167	2100		4.183	~~530~~ 970	
toluene						
tetrachloroethene	7.803	~~12,000~~ 5500		7.840	4000	
ethyl benzene						
m+p-xylene						
o-xylene						

⊛ - Contains hydrocarbon -

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10119316 / RCP1 569
Date/time collected: 10-11-93 / 1505
Date/time analyzed: 10-11-93 / 1705
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.	
Vinyl Chloride								
1,1-DCE	1.786	1700			1.85	2700		
Methylene Chloride								
t-1,2-DCE								
1,1-DCA								
cis-1,2-DCE								
Chloroform								
1,1,1-TCA					2.937	1100		
benzene								
1,2-DCA					4.207	-120		(*)
trichloroethene	4.173	54			4.207	20		
toluene								
tetrachloroethene	7.943	150						
ethyl benzene								
m+p-xylene								
o-xylene								

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

(*) trace TCE

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FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10119317 / RCP1 SG 10
Date/time collected: 10-11-93 / 1515
Date/time analyzed: 10-11-93 / 1725
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC.

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.410	1500			1.353	3600	
1,1-DCE	1.756	1500			1.800	2100	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE					3.026	460	
Chloroform					↕	↕	
1,1,1-TCA					3.026	460	
benzene							
1,2-DCA							
trichloroethene	4.180	16					
toluene							
tetrachloroethene	7.830	340			7.877	130	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10119315 / IWT 24.2 SG5

Date/time collected: 10-11-93 / 1650

Date/time analyzed: 10-11-93 / 1840

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.817	1800			1.803	2400	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA					2.366	18,000	E
cis-1,2-DCE	2.960	100			2.960		
Chloroform							
1,1,1-TCA					2.960	3800	
benzene							
1,2-DCA					4.220	1200	
trichloroethene	4.230	1400					
toluene							
tetrachloroethene	7.853	280					
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

BTEX

TCE

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10119320 / IWT 24.2 SGS/2
Date/time collected: 10-11-93 / 1600
Date/time analyzed: 10-11-93 / 1901
Air vol. analyzed: 1.0
Dilution factor: 2.0
Analyst(s): MC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.827	4000			1.813	3900	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA					2.276	27,000	
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					2.963	4000	
benzene							
1,2-DCA					4.207	1100	
trichloroethene	4.186	1700			4.240	600	
toluene							
tetrachloroethene	7.820	740			7.827	300	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

~~Benzene~~ TCE + Toluene

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 011932 1 / IWT 24.2 SG3
Date/time collected: 10-11-93 / 1630
Date/time analyzed: 10-11-93 / 1925
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.437	21,000					
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene	4.173	100					
toluene							
tetrachloroethene	7.880	50					
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

TCE + ~~Benzene~~ Toluene

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10119322 / TWT 24.2 563/5
Date/time collected: 10-11-93 / 1630
Date/time analyzed: 10-11-93 / 1946
Air vol. analyzed: 1.0
Dilution factor: 5.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.340	35,000			1.347	72,000	
1,1-DCE	1.750	290					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					2.990	3,100	
benzene							
1,2-DCA							
trichloroethene	4.197	85					
toluene							
tetrachloroethene	7.803	770					
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10119323 / IWT 24.2 ~~SG3~~ SG2

Date/time collected: 10-11-93 / 1730

Date/time analyzed: 10-11-93 /

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.370	3600		1.353	8200	
1,1-DCE	1.813	2100		1.783	3600	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA				2.937	960	
benzene						
1,2-DCA						
trichloroethene	4.170	70				
toluene						
tetrachloroethene	7.790	150				
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 1011932 4 / IWT 24.2 SG1
Date/time collected: 10-11-93 / 1755
Date/time analyzed: 10-11-93 /
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.373	5200		1.367	13,000	
1,1-DCE	1.790	1600		1.776	2900	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA				2.937	1800	
benzene						
1,2-DCA						
trichloroethene	4.167	80				
toluene						
tetrachloroethene	7.790	1500		7.807	670	
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

Toluene + TCE

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10119325 / Blank
Date/time collected: N/A
Date/time analyzed: 10-11-93 / 2051
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE					1.793	120	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene	7.790	~~100~~ 60					
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10119326 / Check Std 2 ppm
Date/time collected: N/A
Date/time analyzed: 10-11-93 / 2116
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.387	3800		1.410	1400	
1,1-DCE	1.756	2000		1.780	1100	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.340	2200	
cis-1,2-DCE	3.020	4000		2.973	4600	
Chloroform				↕	↕	
1,1,1-TCA				2.973	4600	
benzene						
1,2-DCA				4.073	2100	
trichloroethene						
toluene						
tetrachloroethene	7.867	3800		7.800	1800	
ethyl benzene						
m+p-xylene						
o-xylene						
EDB				12.183	1700	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10129301-2/ Blank

Date/time collected:

Date/time analyzed:

Air vol. analyzed:

Dilution factor:

Analyst(s):

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.333	990					
1,1-DCE					1.817	850	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE	2.977	1200			2.957	250	
Chloroform					↓		
1,1,1-TCA					2.957	250	
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene	7.740	330			7.777	340	
ethyl benzene	12.080	120			12.163	260	
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10129303 / Blend 2 - 10 ppm
Date/time collected: NA
Date/time analyzed: 10-12-93 / 0845
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMK

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.383	1700		1.407	9500	
1,1-DCE	1.756	2200		1.783	5000	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.360	92.00	
cis-1,2-DCE	2.977	1500		3.010	21,000	
Chloroform						
1,1,1-TCA				3.010	21,000	
benzene						
1,2-DCA				4.070	13,000	
trichloroethene						
toluene						
tetrachloroethene	7.773	1300		7.807	14,000	
ethyl benzene						
m+p-xylene						
o-xylene						
EDB				12.160	4500	

PID on low power

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10129304 / Blend 2 - 5 ppm

Date/time collected: N/A

Date/time analyzed: 10-12-93 / 0908

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

PID on low power

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10129305 / Blend 2 - 2 ppm
Date/time collected: NA
Date/time analyzed: 10-12-93
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): VMC

COMPOUND	RT	PID RESULTS ppbV	PID QUAL.		RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

PID on low points

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

MT 1/4/93

Sample ID: 10129329 / IWT 24.82 SG9

Date/time collected: 10-12-93 / 1605

Date/time analyzed: 10-12-93 / 1801

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
	1.977						
Vinyl Chloride							
1,1-DCE	1.823	1300					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene	4.170	150					
toluene							
tetrachloroethene	7.830	110					
ethyl benzene							
m+p-xylene							
o-xylene							

peak at 12.95 min (m,p-Xylene?)

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

MT 1/11/94

Sample ID: 10129328 / IWT 24.8² SG9 / 5

Date/time collected: 10-12-93 / 1605

Date/time analyzed: 10-12-93 /

Air vol. analyzed: 1.0

Dilution factor: 5.0

Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.	
Vinyl Chloride	1.380	4100		1.380	24,000		*
1,1-DCE	1.770	3100					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA				3.080	20,000		*
benzene							
1,2-DCA							
trichloroethene	4.200	140					
toluene	6.210	120					
tetrachloroethene	7.790	590					
ethyl benzene	12.160	390					
m+p-xylene							
o-xylene							

12.890 - m,p-Xylene ~ 600

* - hydrocarbon (methane)

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

MT 1/4/94

Sample ID: 10129329 / IWT 24.3² SG10

Date/time collected: 10-12-93 / 1545

Date/time analyzed: 10-12-93 / 1854

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DMC

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
					1.337		
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA					2.397	460 ~~590~~	
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					2.937	1600 ~~2500~~	
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

(*) Hydrocarbon (Methane

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

MT 1/4/94

Sample ID: 10129380 / IWT 24.3 2 SG65

Date/time collected: 10-12-93 / 1914

Date/time analyzed: 10-12-93 / 1.0

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DMC

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

Bad Run

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 1012933 1 / Check Std 2 ppm

Date/time collected:

Date/time analyzed:

Air vol. analyzed:

Dilution factor:

Analyst(s):

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.380	2700			1.403	1900	
1,1-DCE	1.773	2400			1.770	2100	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA					2.326	2200	
cis-1,2-DCE	2.937	29,000			2.937	4100	
Chloroform					↕	↕	
1,1,1-TCA					2.937	4100	
benzene							
1,2-DCA					4.027	2300	
trichloroethene					4.027	1300	
toluene							
tetrachloroethene	7.663	1500			7.707	2000	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10129332 / Blank

Date/time collected: _____

Date/time analyzed: _____

Air vol. analyzed: _____

Dilution factor: _____

Analyst(s): _____

		PID				FID	
COMPOUND	RT	RESULTS ppbV	QUAL.		RT	RESULTS ppbV	QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Blank 2 + BTEX

Sample ID: 10139303 / Check Std 2 ppm

Date/time collected: NA

Date/time analyzed: 10-13-93 /

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.397	2100			1.397	2100	
1,1-DCE	1.760	2300			1.773	2300	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA					2.326	2100	
cis-1,2-DCE	2.977	43,000			2.966	3900	
Chloroform					↕	↕	
1,1,1-TCA					2.960	3900	
benzene	3.403	1300			3.357	2200	
1,2-DCA					4.057	2200	
trichloroethene							
toluene	6.290	2100			6.243	2100	
tetrachloroethene	7.750	1600			7.783	1400	
ethyl benzene / EDB	12.007	2000			12.053	3800	
m+p-xylene							
o-xylene	15.703	2200			15.740	2400	
EDB					12.053		

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

13-13
14-7
15-15
16-29
17-34

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10139302 / 10139301 / Blank
Date/time collected: N/A
Date/time analyzed: 10-13-93 / 0757
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene					3,346	110	
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene	11,980	110			12,027	250	
m+p-xylene							
o-xylene	15,693	130			15,810	200	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10129306 / Blend 2- 2 ppm M
Date/time collected: NA
Date/time analyzed: 10-12-93 / 0951
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.383	2800			1.403	2500	
1,1-DCE	1.780	2700			1.776	2500	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA					2.337	2400	
cis-1,2-DCE	2.977	420,000			2.967	5200	
Chloroform					↕		
1,1,1-TCA					2.967	5200	
benzene							
1,2-DCA					4.070	2100	
trichloroethene							
toluene							
tetrachloroethene	7.533	2800			7.823	2700	
ethyl benzene							
m+p-xylene							
o-xylene							
EDB					12.490	2700	

ID on Medium Power

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10129307 / Blend 2 1ppm M
Date/time collected: NA
Date/time analyzed: 10-12-93
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.393	1300		1.410	1500	
1,1-DCE	1.766	1500		1.790	1700	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.343	1300	
cis-1,2-DCE	2.993	150,000		2.987	2800	
Chloroform						
1,1,1-TCA						
benzene						
1,2-DCA				4.097	1000	
trichloroethene						
toluene						
tetrachloroethene	7.810	1800		7.830	1400	
ethyl benzene						
m+p-xylene						
o-xylene						
EDB ~~12.180~~	12.180	320		12.223	680	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10129308 / JWT 24.3 SG1
Date/time collected: 10-12-93 / 0940
Date/time analyzed: 10-12-93 / 1035
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.786	660			1.806	1980	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					2.940	400	
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene	7.967	4100	E		7.850	4900	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10129309 / TWT 24.3 SGS
Date/time collected: 10-12-93 / 0940
Date/time analyzed: 10-12-93 / 1856
Air vol. analyzed: 1.0
Dilution factor: 100
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
	16503		E		16496		E
Vinyl Chloride							
1,1-DCE			X				E
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					2.943	2400	
benzene							
1,2-DCA					4.113	1000	
trichloroethene							
toluene							
tetrachloroethene	7.803	590			7.853	510	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

large hydrocarbon peak

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10129310 / IWT 24.3 SG6

Date/time collected: 10-12-93 / 0910

Date/time analyzed: 10-12-93 / 1118

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.	
Vinyl Chloride					1,360	4200		⊛
1,1-DCE	1,810	3200			1,817	3900		
Methylene Chloride								
t-1,2-DCE								
1,1-DCA								
cis-1,2-DCE								
Chloroform								
1,1,1-TCA					2,933	700		
benzene								
1,2-DCA					4,210	-120		
trichloroethene								
toluene								
tetrachloroethene	7,783	180			7,820	180		
ethyl benzene								
m+p-xylene								
o-xylene								

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

⊛ Hydrocarbon (Methane)

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10129311 / IWT 24.3 SG7
Date/time collected: 10-12-93 / 0852
Date/time analyzed: 10-12-93 / 1141
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.407	920					
1,1-DCE	1.773	150			1.756	1880	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene	4.143	260					
toluene							
tetrachloroethene	7.750	800					
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10129312 / IWT 24.3 SG64
Date/time collected: 10-12-93 / 0940
Date/time analyzed: 10-12-93 / 1203
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.766	750			1.776	3300	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					2.927	1700	
benzene							
1,2-DCA					4.093	540	
trichloroethene							
toluene							
tetrachloroethene	7.743	400			8.070	510	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10129313 / IWT 24.3 SG2
Date/time collected: 10-12-93 / 1120
Date/time analyzed: 10-12-93 / 1224
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.373	5000			1.423	9200	
1,1-DCE	1.790	2300			1.780	5700	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					2.730	680	
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene	7.773	1200			7.807	1200	
ethyl benzene							
m+p-xylene							
o-xylene							
1,2,4-TMB					11.816	3000	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10129314 / INT 24.3 SG2D

Date/time collected: 10-12-93 / 1120

Date/time analyzed: 10-12-93 / 1245

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.373	4700		1.413	9800	
1,1-DCE	1.786	2300		1.780	5700	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA				2.960	780	
benzene						
1,2-DCA						
trichloroethene						
toluene						
tetrachloroethene	7.780	1100		7.810	730	
ethyl benzene						
m+p-xylene						
o-xylene						
ED:3				12.263	3600	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10129315 / IWT 24.3 SG3

Date/time collected: 10-12-93 / 1110

Date/time analyzed: 10-12-93 / 1306

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): AMC

HNU = 3

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

Off-scale on both detectors to if run back out column

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID:	1012931 6 / IWT 24.3 SG4
Date/time collected:	10-12-93 / ~~IWT 24.3~~ 1040
Date/time analyzed:	10-12-93 / 1404
Air vol. analyzed:	1.0
Dilution factor:	1.0
Analyst(s):	DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride						
1,1-DCE	1.780	2500				
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.276	3300	
cis-1,2-DCE						
Chloroform						
1,1,1-TCA						
benzene						
1,2-DCA		730		4.003	1200	
trichloroethene	4.057	~~4600~~		4.003	570	
toluene				~~6.403~~		
tetrachloroethene	7.756	270		7.753	280	
ethyl benzene	10.917	1200		11.937	2300	
m+p-xylene						
o-xylene	15.123	310		16.013	80	

numerous peaks

large HC peak in FID

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

Might contain Ethylbenzene

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10129317 / IWT 24.3 SG1 1:5
Date/time collected: 10-12-93 / 0940
Date/time analyzed: 10-12-93 / 1427
Air vol. analyzed: 1.0
Dilution factor: 5.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride				1.353	5600	
1,1-DCE	1.783	2700		1.796	13,500	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA						
benzene						
1,2-DCA				4.040	360	
trichloroethene						
toluene	6.377	250		6.253	200	
tetrachloroethene	7.810	4500		7.830	3200	
ethyl benzene	12.187	600				
m+p-xylene						
o-xylene						

(*) Hydrocarbon (Methane)

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10129318 / IWT 24.3 SGS 1:5
Date/time collected: 10-12-93 / 0940
Date/time analyzed: 10-12-93 /
Air vol. analyzed: 1.0
Dilution factor: 5.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.350	27,000		1.387	48,000	
1,1-DCE	1.763	450				
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.397	440	
cis-1,2-DCE						
Chloroform						
1,1,1-TCA				2.940	1300	
benzene						
1,2-DCA						
trichloroethene						
toluene						
tetrachloroethene	7.880	850		7.856	980	
ethyl benzene	12.160	140				
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10129319 / IWT 24.2 SG11
Date/time collected: 10-12-93 / 1430
Date/time analyzed: 10-12-93 / 1510
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride						
1,1-DCE	1.777	800		1.787	DMC 3000	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA				2.840	DMC 1400	
benzene	~~6.257~~					
1,2-DCA						
trichloroethene	4.180	62				
toluene	6.257	110		6.330	130	
tetrachloroethene	7.800	110		7.920	340	
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10129320 / IWT 24.2 SG14
Date/time collected: 10-12-93 / 1345
Date/time analyzed: 10-12-93 / 1533
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1,420	880		1,350	7400	X
1,1-DCE	1,783	520		1,770	3700	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA				2,987	780	
benzene						
1,2-DCA						
trichloroethene	4,183	77				
toluene						
tetrachloroethene	7,820	67				
ethyl benzene						
m+p-xylene						
o-xylene	~~165~~					

Probably contains Methane

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10129321 / IWT 24.2 SG12
Date/time collected: 10-12-93 / 1410
Date/time analyzed: 10-12-93 /
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride	1.400	480			1.443	~~35,000~~ 3400	
1,1-DCE	1.780	850					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA					2.257	8800	
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					2.993	1000	
benzene							
1,2-DCA					4.220	890	
trichloroethene	4.210	2100			4.220	550	
toluene	6.270	180			6.313	150	
tetrachloroethene	7.843	~~[illegible]~~ 150			7.787	~~[illegible]~~ 710	
ethyl benzene					11.890	260	
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

(*) HC peak methane

TCE

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10129322 / IWT 24.2 SG13
Date/time collected: 10-12-93 / 1355
Date/time analyzed: 10-12-93 / 1618
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride				1.357	4100	*
1,1-DCE	1.740	1200		1.813	~~2800~~	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA						
benzene						
1,2-DCA				~~1.740~~ DMC	~~110~~	
trichloroethene	4.207	60		4.240	68	
toluene						
tetrachloroethene	7.860	120		7.860	DMC 96	
ethyl benzene				~~[illegible]~~	~~[illegible]~~	
m+p-xylene						
o-xylene						

* - HC peak (methane)

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10129323 / BWT 24.3 SG3/50
Date/time collected: 10-12-93 / 1110
Date/time analyzed: 10-12-93 / 1642
Air vol. analyzed: 1.0
Dilution factor: 50.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.403	120,000					
1,1-DCE	1.780	20,000					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					2.900	~~510,000~~ 32,000	
benzene							
1,2-DCA					4.020	~~360,000~~ 75,000	
trichloroethene	3.987	15,000			4.020	42,000	
toluene	6.417	16,000			6.457	97,000	
tetrachloroethene	7.823	13,000			7.807	84,000	
ethyl benzene	12.243	8900					
m+p-xylene							
o-xylene	15.970	15,000					

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10129324 / IWT 24.3 SG-3 / 10
Date/time collected: 10-12-93 / 1110
Date/time analyzed: 10-12-93 / 1704
Air vol. analyzed: 1.0
Dilution factor: 10.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride						
1,1-DCE	1.780	4400				
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE	2.840	970				
Chloroform						
1,1,1-TCA				2.917	17,000	
benzene						
1,2-DCA				4.013	61,000	
trichloroethene	3.987	23,000		4.013	37,000	
toluene	6.420	20,000		6.427	11,000	
tetrachloroethene	7.816	8200		7.816	19,000	
ethyl benzene	12.353	9300		12.380	13,000	
m+p-xylene						
o-xylene	15.937	14,000		16.080	14,000	
2-Butanone	2.390	3100				

large hydrocarbon peak

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 0129326 / SWT 32.~~3~~ 2 SG ~~2~~ 3 MT 1/5/93

Date/time collected: 10-12-93 / 1655

Date/time analyzed: 10-12-93 /

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DMC

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride	1.353	5200					
1,1-DCE	1.773	260					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

Strong peak at 13 min, (M,P-Xylene) ?

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10139304 / AB STD 5 PPM
Date/time collected: NA
Date/time analyzed: 10-13-93 / 1109
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10139305 / AB STD 2 ppm

Date/time collected: NA

Date/time analyzed: 10-13-93 / 1130

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DMC

		PID				FID	
COMPOUND	RT	RESULTS ppbV	QUAL.		RT	RESULTS ppbV	QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10139306 / AB STD 1 ppm
Date/time collected: NA
Date/time analyzed: 10-13-93 / 1153
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	RT	PID RESULTS ppbV	PID QUAL.		RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10139307 / AB STD 0.5 ppm
Date/time collected: NA
Date/time analyzed: 10-13-93 /
Air vol. analyzed: 1.0
Dilution factor: 10
Analyst(s): MKC

COMPOUND	RT (PID)	RESULTS ppbV (PID)	QUAL. (PID)	RT (FID)	RESULTS ppbV (FID)	QUAL. (FID)
Vinyl Chloride						
1,1-DCE						
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA						
benzene						
1,2-DCA						
trichloroethene						
toluene						
tetrachloroethene						
ethyl benzene						
m+p-xylene						
o-xylene						

NO GOOD

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10139308 / Check STD 2ppm

Date/time collected:

Date/time analyzed:

Air vol. analyzed:

Dilution factor:

Analyst(s):

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.373	2000		1.400	2000	
1,1-DCE	1.723	2300		1.747	2500	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.256	2100	
cis-1,2-DCE	2.830	1000		2.840	3900	
Chloroform				↕	↕	
1,1,1-TCA				2.840	3900	
benzene						
1,2-DCA						
trichloroethene						
toluene						
tetrachloroethene	7.450	1500		7.473	1700	
ethyl benzene	11.687	1000		11.737	2600	
m+p-xylene						
o-xylene	15.407	780		15.487	1400	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10139309 / AB STD 5 ppm

Date/time collected: NA

Date/time analyzed: 10-13-93 / 1320

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride					1.417		
1,1-DCE					1.793		
Methylene Chloride							
t-1,2-DCE							
1,1-DCA					2.343		
cis-1,2-DCE					2.977		
Chloroform					↕		
1,1,1-TCA					2.977		
benzene					3.440		
1,2-DCA					4.100		
trichloroethene							
toluene					6.303		
tetrachloroethene					7.857		
ethyl benzene / EDB					12.183		
m+p-xylene							
o-xylene					15.917		

Several peaks off-scale

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10139310 / AB STD 2 ppm
Date/time collected: NA
Date/time analyzed: 10-13-93 / 341
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.400				1.423		
1,1-DCE	1.773				1.800		
Methylene Chloride							
t-1,2-DCE							
1,1-DCA					2.353		
cis-1,2-DCE	2.983				2.990		
Chloroform					↕		
1,1,1-TCA					2.990		
benzene	3.427				3.450		
1,2-DCA					4.110		
trichloroethene							
toluene	6.340				6.317		
tetrachloroethene	7.847				7.880		
ethyl benzene / EDB	12.160				12.170		
m+p-xylene							
o-xylene	15.883				15.893		

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10139311 / AB STD 1 PPM
Date/time collected: NA
Date/time analyzed: 10-13-93 / 1402
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.390			1.413		
1,1-DCE	1.763			1.793		
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.347		
cis-1,2-DCE	2.980			2.983		
Chloroform				↑		
1,1,1-TCA				2.983		
benzene	3.380			3.390		
1,2-DCA				4.113		
trichloroethene						
toluene	6.270			6.303		
tetrachloroethene	7.833			7.847		
ethyl benzene	12.160			12.187		
m+p-xylene						
o-xylene	15.963			15.913		

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10139312 / AB STD 0.5 ppm
Date/time collected: NA
Date/time analyzed: 10-13-93 / 1424
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	RT	PID RESULTS ppbV	PID QUAL.		RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.383						
1,1-DCE	1.760						
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE	2.963						
Chloroform							
1,1,1-TCA							
benzene	3.360						
1,2-DCA							
trichloroethene							
toluene	6.257						
tetrachloroethene	7.820						
ethyl benzene	12.107						
m+p-xylene							
o-xylene	15.840						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10139313 / IWT 24.3 SG10
Date/time collected: 10-12-93 / 1545
Date/time analyzed: 10-13-93 /
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride	1.427	7800					
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE	2.940	4200			2.963	4200	
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA					4.177	400	
trichloroethene	4.150	270			4.177	180	
toluene	6.233	130			6.287	400	
tetrachloroethene	7.773	190			7.733	~~[illegible]~~ 720	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10139314 / IWT 24.5 SG7B
Date/time collected: 10-13-93 / 0905
Date/time analyzed: 10-13-93 /
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride	1.400	1400			1.363	8600	
1,1-DCE	1.810	730			1.827	2300	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

Tightened & Adjusted Sampling Valve

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10139315 / IWT 24.5 SG8
Date/time collected: 10-13-93 / 0930
Date/time analyzed: 10-13-93 /
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.390	1300		1.350	7600	
1,1-DCE	1.786	1300		1.810	2600	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA				2.973	800	
benzene						
1,2-DCA						
trichloroethene						
toluene				6.250	230	
tetrachloroethene	7.863	340		7.976	240	
ethyl benzene				12.316	180	
m+p-xylene						
o-xylene				15.243	250	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10139316 / I-WT 24.1 SG1
Date/time collected: 10-13-93 / 1105
Date/time analyzed: 10-13-93 / 1640
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): BMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
	1.847			1.393		
Vinyl Chloride						
1,1-DCE	1.847	4700		1.817	5600	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				~~4.200~~	~~270~~	
cis-1,2-DCE						
Chloroform						
1,1,1-TCA						
benzene						
1,2-DCA				4.200	270	
trichloroethene	4.197	160		4.200	140	
toluene	6.260	180		6.320	180	
tetrachloroethene	7.867	150		7.910	180	
ethyl benzene	12.543	3400		12.620	360	
m+p-xylene						
o-xylene						

hydrocarbon

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10139317 / IWT 241.5G66

Date/time collected: 10-13-93 /

Date/time analyzed: 10-13-93 / 1703

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.370	1400				
1,1-DCE	1.766	870		1.780	1600	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA				3.020	390	
benzene						
1,2-DCA				4.223	280	
trichloroethene	4.157	160		4.077	110	
toluene	6.220	55				
tetrachloroethene	7.823	190		7.993	610	
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 019318 / EWT 24.15G.2
Date/time collected: 10-13-93 / 1115
Date/time analyzed: 10-13-93 / 1748
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

	PID				FID		
COMPOUND	RT	RESULTS ppbV	QUAL.		RT	RESULTS ppbV	QUAL.
					1.660		*
Vinyl Chloride	1.457	7400					
1,1-DCE	1.753	380					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene	4.160	110					
toluene	~~6.287~~ 7.817						
tetrachloroethene	~~7.877~~	180			8.077	240	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10139319 / IWT 24.15G2 / 2

Date/time collected: 10-13-93 / 1115

Date/time analyzed: 10-13-93 / 1809

Air vol. analyzed: 1.0

Dilution factor: 2.0

Analyst(s): BMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
					1.546		*
Vinyl Chloride	1.400	17,000			~~1.557~~	~~44,000~~	
1,1-DCE	~~1.543~~	~~500~~					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene					3.250		
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene	7.880	180					
ethyl benzene							
m+p-xylene							
o-xylene							

hydrocarbon

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10139320 / EWT 24.1 SG3
Date/time collected: 10-13-93 / 1140
Date/time analyzed: 10-13-93 / 1832
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.377	2000			1.373	10,000	
1,1-DCE	1.787	2800			1.790	5550	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					3.807	320	
benzene							
1,2-DCA							
trichloroethene	4.170	210			4.267	190	
toluene	6.263	100			6.356	160	
tetrachloroethene					8.090	990	
ethyl benzene					12.063	440	
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10139321 / I-WT 24.5 SG1
Date/time collected: 10-13-93 / 1505
Date/time analyzed: 10-13-93 / 1853
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.373	4600		1.459	4800	
1,1-DCE	1.756	150				
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA						
benzene						
1,2-DCA				4.190	340	
trichloroethene	4.183	300		4.190	120	
toluene				6.347	180	
tetrachloroethene	7.863	40				
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10139322 / IWT 24.5 SG2
Date/time collected: 10-13-93 / 1650
Date/time analyzed: 10-13-93 /
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): gmc

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.393	5700					
1,1-DCE	1.790	1200					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					2.980	1300	
benzene							
1,2-DCA					4.143	310	
trichloroethene	4.183	120			4.143	80	
toluene	6.283	190			6.333	270	
tetrachloroethene	7.840	190			7.933	130	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10139323 / AWT 24.3 SG9
Date/time collected: 10-13-93 / 1715
Date/time analyzed: 10-13-93 /
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA					4.207	320	
trichloroethene	4.186	790			4.207	190	
toluene							
tetrachloroethene	7.843	330			7.850	370	
ethyl benzene							
m+p-xylene							
o-xylene							

large hydrocarbon peak

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10139324 / IWT 24.3 SG10

Date/time collected: 10-13-93 / 1735

Date/time analyzed: 10-13-93 /

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride						
1,1-DCE	1.796	400				
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.307	7100	
cis-1,2-DCE						
Chloroform						
1,1,1-TCA				2.930	930	
benzene						
1,2-DCA						
trichloroethene	4.180	380				
toluene						
tetrachloroethene	7.837	~~380~~ 620		7.863	300	
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10139325 / Method Blank
Date/time collected: NA
Date/time analyzed: 10-13-93 / 2037
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): BMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					2.953	190	
benzene							
1,2-DCA							
trichloroethene							
toluene	6.237	26			6.350	26	
tetrachloroethene	7.803	22					
ethyl benzene	12.080	30			12.157	190	
m+p-xylene							
o-xylene	15.893	46			16.056	260	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10149301 / Blank

Date/time collected:

Date/time analyzed:

Air vol. analyzed:

Dilution factor:

Analyst(s):

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.387						
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA					2.500	150	
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene					3.546	130	
1,2-DCA					3.933	170	
trichloroethene							
toluene	6.213	380			6.256	520	
tetrachloroethene							
ethyl benzene	12.053	840			12.103	2200	
m+p-xylene							
o-xylene	15.783	1900			15.857	2600	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 101493 02 / Blank

Date/time collected:

Date/time analyzed:

Air vol. analyzed:

Dilution factor:

Analyst(s):

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE	2.980	770			2.983	130	
Chloroform							
1,1,1-TCA					2.963	130	
benzene					3.380	20	
1,2-DCA					4.046	97	
trichloroethene							
toluene					6.226	72	
tetrachloroethene	7.787	260			7.860	250	
ethyl benzene	12.103	200			12.150	930	
m+p-xylene							
o-xylene	15.787	220			15.850	440	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10149303 / Check STD 2 ppm
Date/time collected: NA
Date/time analyzed: 10-14-93 / 1054
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.400	1800		1.420	2000	
1,1-DCE	1.776	1900		1.796	1900	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.363	2000	
cis-1,2-DCE	3.013	68,000		3.003	3800	
Chloroform				↕	↕	
1,1,1-TCA				3.003	3800	
benzene	3.413	1300		3.403	1900	
1,2-DCA				4.113	1900	
trichloroethene						
toluene	6.300	1600		6.333	1800	
tetrachloroethene	7.870	1600		7.920	1600	
ethyl benzene	12.190	1400		12.240	3300	
m+p-xylene						
o-xylene	15.943	1400		15.993	2900	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10149304 / IWT 24.3 567 115

Date/time collected: 10-13-93 / 1715

Date/time analyzed: 10-14-93 / 1142

Air vol. analyzed: 1.0

Dilution factor: 5.0

Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
				1.643		*
Vinyl Chloride	1.340	29,000				
1,1-DCE	1.763	12,000				
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA						
benzene						
1,2-DCA				4.160	730	
trichloroethene	4.180	1000		4.160	380	
toluene	6.270	370		6.283	960 ~~1400~~	
tetrachloroethene	7.843	1100		7.923	1000	
ethyl benzene	12.203	650		12.253	960	
m+p-xylene						
o-xylene	15.933	670				

Hydrocarbon peak

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10149305 / IWT 24.3 SG10.5

Date/time collected: 10-13-93 / 1735

Date/time analyzed: 10-14-93 / 1314

Air vol. analyzed: 1.0

Dilution factor: 5.0

Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.380	10,000					
1,1-DCE	1.796	6900					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA					2.343	360	
cis-1,2-DCE					2.967	1800	
Chloroform					↕	↕	
1,1,1-TCA					2.967	1800	
benzene							
1,2-DCA					4.186	510	
trichloroethene	4.240	310			4.153	360	
toluene	6.273	180			6.313	190	
tetrachloroethene	7.853	650			7.900	730	
ethyl benzene	12.240	500			12.250	1200	
m+p-xylene							
o-xylene	15.890	490					

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10149306 / INT 24.3 SG11
Date/time collected: 10-14-93 / 0825
Date/time analyzed: 10-14-93 / 1336
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE	2.890	5300					
Chloroform							
1,1,1-TCA							
benzene	3.						
1,2-DCA							
trichloroethene	4.053	1100					
toluene	6.447	180					
tetrachloroethene							
ethyl benzene	12.003	490					
m+p-xylene							
o-xylene							
2-Butanone	2.390	380					

Multiple peaks

FID off-scale

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10149307 / IWT 24.3 SG12
Date/time collected: 10-14-93 / 0845
Date/time analyzed: 10-14-93 / 1400
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): Amer

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
				1.657		*
Vinyl Chloride	1.427	7700				
1,1-DCE	1.776	390				
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA				2.947	650	
benzene						
1,2-DCA						
trichloroethene						
toluene						
tetrachloroethene	7.823	300		7.816	620	
ethyl benzene	12.420	210				
m+p-xylene						
o-xylene				~~13.470~~		

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

* Hydrocarbon peak

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10149308 / IWT 24.3 SG13
Date/time collected: 10-14-93 / 0905
Date/time analyzed: 10-14-93 /
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.370	2600					
1,1-DCE	1.790	3200					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					2.903	440	
benzene							
1,2-DCA					4.006	400	
trichloroethene	4.123	270			4.006	190	
toluene	6.250	190			6.273	220	
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

TC

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

CHANF1.XLS

TCE

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10149309 / INWT 24.2- SG15
Date/time collected: 10-14-93 / 0935
Date/time analyzed: 10-14-93 / 1446
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.447	760		1.337	5800	
1,1-DCE	1.823	4100		1.823	5700	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE	2.963	240		2.987	860	
Chloroform				↕	↕	
1,1,1-TCA				2.987	860	
benzene				3.390	170	
1,2-DCA				4.040	520	
trichloroethene	4.183	180		4.040	~~290~~ 160	
toluene	6.280	550		6.313	1200	
tetrachloroethene				8.007	100	
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10149310 / IWT 24.2 SG16
Date/time collected: 10-14-93 / 1100
Date/time analyzed: 10-14-93 / 1527
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride					1.467	2200	
1,1-DCE	1.786	3300			1.786	5700	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE	?						
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene					6.316	130	
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10149311 / IWT 24.2 SG17
Date/time collected: 10-14-93 / 1110
Date/time analyzed: 10-14-93 / 1549
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE	2.833	260					
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene	3.980	250					
toluene	6.233	130					
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FID saturated
PID off-scale

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10149312 / EWT 2.4.2 SG17/5
Date/time collected: 10-14-93 / 1110
Date/time analyzed: 10-14-93 /
Air vol. analyzed: 1.0
Dilution factor: 5.0
Analyst(s): ANC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.400	26,000					
1,1-DCE	1.753	460					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene	6.260	400					
tetrachloroethene	7.827	880					
ethyl benzene	12.130	440					
m+p-xylene							
o-xylene	15.886	710					

Large Hydrocarbon peak

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10149313 / IWT 24.2 5617 / 25

Date/time collected: 10-14-93 / 1110

Date/time analyzed: 10-14-93 / 1647

Air vol. analyzed: 1.0

Dilution factor: 25.0

Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.776	10,000					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene	6.243	2200					
tetrachloroethene	7.820	4600					
ethyl benzene	12.117	2600					
m+p-xylene							
o-xylene	15.840	1900					

large hydrocarbon peak

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10149314 / IWT 24.3 56 13/2
Date/time collected: 10-14-93 / 0905
Date/time analyzed: 10-14-93 /
Air vol. analyzed: 1.0
Dilution factor: 2.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.357	3600				
1,1-DCE	1.770	5400				
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA				2.913	460	
benzene						
1,2-DCA				4.017	320	
trichloroethene	4.143	270		4.017	190	
toluene	6.226	180		6.277	290	
tetrachloroethene	7.980	200				
ethyl benzene	12.087	100		12.193	290	
m+p-xylene						
o-xylene	15.860	80				

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10149315 / IWT 24.3 5612/2
Date/time collected: 10-14-93 / 0854 s
Date/time analyzed: 10-14-93 / 1731
Air vol. analyzed: 1.0
Dilution factor: 2.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1,350	11,000					
1,1-DCE	1,766	500					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA					2,413	270	
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					2,937	1900	
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene	7,810	310			7,810	410	
ethyl benzene							
m+p-xylene							
o-xylene	15,770	160					

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10149316 / IWT 24.3 SG-11/10
Date/time collected: 10-14-93 / 0825
Date/time analyzed: 10-14-93 /
Air vol. analyzed: 1.0
Dilution factor: 10.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene	6.396	260					
tetrachloroethene	7.830	350					
ethyl benzene	12.150	890					
m+p-xylene							
o-xylene	15.987	790					

Large Hydrocarbon peak

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10149317 / IWT 24.3 SG11 / 50
Date/time collected: 10-14-93 / 0825
Date/time analyzed: 10-14-93 / 1813
Air vol. analyzed: 1.0
Dilution factor: 50.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene	6.260	2300					
tetrachloroethene	7.813	7500					
ethyl benzene	12.157	2500					
m+p-xylene							
o-xylene	15.920	8600					

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FID still off scale

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10149318 / Blank
Date/time collected: NA
Date/time analyzed: 10-14-93
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): JMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					3.030	160	
benzene							
1,2-DCA						-	
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene					12.216	110	
m+p-xylene							
o-xylene					15.886	290	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10149319 / Check STD 2 ppm
Date/time collected: N/A
Date/time analyzed: 10-14-93 / 1900
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.400	850				
1,1-DCE	1.776	1800		1.803	2880	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.353	1400	
cis-1,2-DCE	3.803	14,000				
Chloroform						
1,1,1-TCA				2.997	2600	
benzene	3.366	560		3.393	1100	
1,2-DCA				4.110	1000	
trichloroethene						
toluene	6.293	750		6.313	1100	
tetrachloroethene	7.863	860		7.900	1300	
ethyl benzene	12.190	600		12.213	1900	
m+p-xylene						
o-xylene	15.960	550		15.976	1800	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 1014932L / Check STD 2 ppm
Date/time collected: NA
Date/time analyzed: 10-15-93 / 0815
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.363	1800		1.387	2800	
1,1-DCE	1.737	2100		1.763	2700	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.320	2500	
cis-1,2-DCE	2.973	20,000		2.950	4900	
Chloroform						
1,1,1-TCA				2.950	4900	
benzene	3.363	2500		3.346	2200	
1,2-DCA				4.043	2400	
trichloroethene						
toluene	6.273	2500		6.250	2800	
tetrachloroethene	7.773	2900		7.800	3600	
ethyl benzene	12.063	3900		12.093	8800	
m+p-xylene						
o-xylene	15.787	6600		15.837	5700	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10159301 / Check STD 2 ppm
Date/time collected: N/A
Date/time analyzed: 10-15-93
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.360	1700		1.380	2200	
1,1-DCE	1.733	2100		1.760	2100	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.313	2200	
cis-1,2-DCE	2.973	180,000		2.950	4500	
Chloroform				↕	↕	
1,1,1-TCA				2.950	4500	
benzene	3.360	2100		3.346	2100	
1,2-DCA				4.040	2300	
trichloroethene						
toluene	6.267	2400		6.247	2600	
tetrachloroethene	7.773	2500		7.810	2500	
ethyl benzene	12.070	3100		12.117	6700	
m+p-xylene						
o-xylene	15.820	4400		15.850	4400	

Apparently, the syringe was contaminated

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10159302- / Blank
Date/time collected: NA
Date/time analyzed: 10-15-93 / 0903
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene					3.366	120	
1,2-DCA							
trichloroethene							
toluene	6.240	280			6.263	290	
tetrachloroethene							
ethyl benzene	12.080	460			12.127	1000	
m+p-xylene							
o-xylene	15.833	830			15.890	1400	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

See 10129330

2 MT 1/4/94

Sample ID: 10159303 / IWT 24.3 5G65

Date/time collected: 10-12-93 / 1914

Date/time analyzed: 10-15-93 / 0926

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.766	3900			1.793	5400	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE	2.943	1300			2.977	720	
Chloroform							
1,1,1-TCA					2.977	720	
benzene							
1,2-DCA							
trichloroethene	4.163	89			4.190	46	
toluene							
tetrachloroethene	7.767	170			7.810	140	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 101593CV / IWT 24.2 SG18
Date/time collected: 10-15-93 / 0830
Date/time analyzed: 10-15-93 / 0954
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride						
1,1-DCE	1.790	400		1.813	1200	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA				3.123	2.80	
benzene						
1,2-DCA						
trichloroethene	4.180	20				
toluene						
tetrachloroethene	7.463	39				
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10159305 / IWT 2.4.2 SG19

Date/time collected: 10-15-93 / ~~IWT 7.4.2~~ 0855

Date/time analyzed: 10-15-93 / 1015

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.773	2500					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE	2.850	340			2.877	470	
Chloroform						↕	
1,1,1-TCA					2.877	470	
benzene							
1,2-DCA					3.997	470	
trichloroethene	4.103	280			3.997	260	
toluene	6.243	420			6.273	510	
tetrachloroethene	7.756	51					
ethyl benzene							
m+p-xylene							
o-xylene							

Large Hydrocarbon Peak

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10159306 / FWT 24.2-SG 67

Date/time collected: 10-15-93 /

Date/time analyzed: 10-15-93 / 1036

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.800	750			1.823	2000	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					3.083	420	
benzene							
1,2-DCA							
trichloroethene	4.167	23			4.280	29	
toluene							
tetrachloroethene	7.767	44			8.150	210	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10154307 / FWT 24.2 562.0
Date/time collected: 10-15-93 / 1000
Date/time analyzed: 10-15-93 / 1104
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.383	1900					
1,1-DCE	1.780	440					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene	4.163	55					
toluene	6.247	240			6.277	320	
tetrachloroethene	7.793	140					
ethyl benzene							
m+p-xylene							
o-xylene							

Large Hydrocarbon peak

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10159308 / IGIT 74.2 SG21
Date/time collected: 10-15-93 / 1020
Date/time analyzed: 10-15-93 / 1126
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.780	1700					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

Large Hydrocarbon Peak

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10159309 / IWT 24.1 SG5
Date/time collected: 10-15-93 / 1100
Date/time analyzed: 10-15-93 /
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMK

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.773	430					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					2.893	180	
benzene							
1,2-DCA					4.017	110	
trichloroethene	4.003	120			4.017	140	
toluene	6.267	150			6.303	270	
tetrachloroethene	7.820	130			7.867	240	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10159310 / I-WT 24.15 G6
Date/time collected: 10-15-93 / 1120
Date/time analyzed: 10-15-93 / 1212
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride					1,		
1,1-DCE	1.776	660					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene	4.170	80					
toluene							
tetrachloroethene	7.850	38					
ethyl benzene							
m+p-xylene							
o-xylene							

Methane Peak

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10159311 / IWT 24.1 SG7

Date/time collected: 10-15-93 / 1135

Date/time analyzed: 10-15-93 / ~~[illegible]~~ 1236

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DMC

AB - 10/15 to 11/02

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.437	840			1.340	3700	
1,1-DCE	1.780	140					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					2.913	230	
benzene							
1,2-DCA							
trichloroethene tr.	4.167	26					
toluene							
tetrachloroethene	7.830	170			7.847	270	
ethyl benzene					~~1.76~~		
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

Start using 1020 integrator

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 101593~~01~~12 / IWT 24.2 SG22

Date/time collected: 10-15-93 / 1420

Date/time analyzed: 10-15-93 / 1647

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DMC

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
					~~1.340~~		
Vinyl Chloride	1.373 ~~1.437~~	15,000 ~~840~~			1.377	43,000	
1,1-DCE	~~1.780~~ DMC	~~140~~					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					2.930	1200	
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene	~~2.930~~ DMC	~~120~~			~~2.877~~	~~270~~ DMC	
ethyl benzene							
m+p-xylene							
o-xylene							

~~Hydrocarbon~~

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 101593~~02~~13 / TWT 24.2 SG23

Date/time collected: 10-15-93 / 1435

Date/time analyzed: 10-15-93 / 1708

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.373	45,400			1.573		
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					2.933	2500	
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene / ⊗					12.657	250	
m+p-xylene							
o-xylene							

⊗ Hydrocarbon peak

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID:	101593~~23~~ 14 / EWT 24.2 SG-24
Date/time collected:	10-15-93 / 1500
Date/time analyzed:	10-15-93 / 1738
Air vol. analyzed:	1.0
Dilution factor:	1.0
Analyst(s):	DMC

	PID			FID		
COMPOUND	RT	RESULTS ppbV	QUAL.	RT	RESULTS ppbV	QUAL.
Vinyl Chloride						
1,1-DCE	1.776	870				
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA				2.927	7800	
benzene						
1,2-DCA						
trichloroethene	4.173	24				
toluene						
tetrachloroethene	7.807	180		7.896	160	
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 101593 15 / TWT 24.2 SG25

Date/time collected: 10-15-93 / 1515

Date/time analyzed: 10-15-93 / 1757

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.433	8300				
1,1-DCE	1.770	790		1.793	70,000	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA				2.923	3600	
benzene						
1,2-DCA						
trichloroethene	4.183	41				
toluene	6.267	320		6.280	180	
tetrachloroethene						
ethyl benzene						
m+p-xylene						
o-xylene						

(*) Hydrocarbon Peak

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 101593 16 / DWT 24.2 SG 26

Date/time collected: 10-15-93 / 1540

Date/time analyzed: 10-15-93 / 1821

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.393	3400			1.453	24,000	
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 101593 17 / TCUT 24.2 SG68

Date/time collected: 10-15-93 /

Date/time analyzed: 10-15-93 / 1845

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): [illegible]

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.417	1200			1.343	6000	
1,1-DCE	1.780	560			1.803	1400	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					2.953	310	
benzene							
1,2-DCA							
trichloroethene	4.167	49					
toluene							
tetrachloroethene	7.783	39					
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 101593 ~~07~~ 18 / IWT 24.3 SG14
Date/time collected: 10-15-93 / 1205
Date/time analyzed: 10-15-93 / 1906
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): [signature]

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride							
1,1-DCE	1.786	780			1.796	1200	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					2.950	560	
benzene							
1,2-DCA							
trichloroethene	4.183	48			4.130	42	
toluene							
tetrachloroethene	7.830	160			7.840	180	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 101593 19 / Blank

Date/time collected: NA

Date/time analyzed: 10-15-93

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): MMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride						
1,1-DCE	1.793	220		1.820	480	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA				3.017	120	
benzene						
1,2-DCA						
trichloroethene	4.167	54		4.183	44	
toluene	6.273	160		6.296	110	
tetrachloroethene	7.830	41				
ethyl benzene	12.117	220		12.120	300	
m+p-xylene						
o-xylene	15.907	460		15.913	250	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 101593 20 / CHECK STD 2ppm
Date/time collected: NA
Date/time analyzed: 10-15-93 / 1950
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): MIC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.370	2100		1.387	2400	
1,1-DCE	1.747	2100		1.770	2200	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.320	1900	
cis-1,2-DCE	2.953	840		2.950	3600	
Chloroform				↕	↕	
1,1,1-TCA				2.950	3600	
benzene	3.387	1400		3.363	1800	
1,2-DCA				4.066	1800	
trichloroethene						
toluene	6.253	1800		6.283	1300	
tetrachloroethene	7.820	1600		7.860	1300	
ethyl benzene	12.136	1500		12.167	2200	
m+p-xylene						
o-xylene	15.877	1600		15.886	1000	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10169301 / Blank
Date/time collected: NA
Date/time analyzed: 10-16-93 / 0820
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
		ND				ND	
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10169302 / AB STD 5 ppm

Date/time collected: N/A

Date/time analyzed: 10-16-93 / 0843

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DMC

	PID				FID		
COMPOUND	RT	RESULTS ppbV	QUAL.		RT	RESULTS ppbV	QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10169303 / A8 STD 2 ppm
Date/time collected: ~~[illegible]~~ NA
Date/time analyzed: 10-16-93 / 0910
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.367				1.390		
1,1-DCE	1.740				1.763		
Methylene Chloride							
t-1,2-DCE							
1,1-DCA					2.320		
cis-1,2-DCE	2.967				2.957		
Chloroform					↕		
1,1,1-TCA					2.957		
benzene	3.366				3.353		
1,2-DCA					4.057		
trichloroethene							
toluene	6.247				6.253		
tetrachloroethene	7.790				7.823		
ethyl benzene / EDB	12.080				12.120		
m+p-xylene							
o-xylene	15.827				15.853		

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10167304 / AB STD 1 ppm

Date/time collected: N/A

Date/time analyzed: 10-16-93 / 0744

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DMR

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10169305 / INT 24.2-5625/5
Date/time collected: 10-15-93 / 1515
Date/time analyzed: 10-16-93 / 1005
Air vol. analyzed: 1.0
Dilution factor: 5.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
					1.520		
Vinyl Chloride	1.340	23,000					
1,1-DCE	1.766	12,000					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					2.870	4400	
benzene							
1,2-DCA							
trichloroethene							
toluene	6.230	340			6.230	280	
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

large HC peak

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10169306 / RCP1 SG5
Date/time collected: 10-16-93 / 0830
Date/time analyzed: 10-16-93 / 1028
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): JMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.427	9000		1.377	50,000	
1,1-DCE	1.770	410				
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA				2.933	2100	
benzene						
1,2-DCA				4.063	330	
trichloroethene						
toluene	6.230	130		6.250	110	
tetrachloroethene						
ethyl benzene						
m+p-xylene						
o-xylene						

⊗ Hydrocarbon peak

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10169308 / RC-1 SG 6
Date/time collected: 10-16-93 / 0845
Date/time analyzed: 10-16-93 / 1050
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
				1.987		*
Vinyl Chloride	1.400	2600				
1,1-DCE	1.810	3700		1.820	9100	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA						
benzene						
1,2-DCA						
trichloroethene						
toluene	6.273	240		6.283	100	
tetrachloroethene						
ethyl benzene						
m+p-xylene						
o-xylene				15.703	340	

* Hydrocarbon peak

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10169308 / RCP1 SG-8

Date/time collected: 10-16-93 / 0903

Date/time analyzed: 10-16-93 / 1112

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.410	1700		1.343	19,000	
1,1-DCE	1.773	1400		1.783	4200	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA				2.980	550	
benzene						
1,2-DCA				4.173	130	
trichloroethene	4.163	86		4.173	77	
toluene						
tetrachloroethene				7.667	250	
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 101693~~09~~10 / RCP 5G-7
Date/time collected: 10-16-93 / 0855
Date/time analyzed: 10-16-93 /
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): RMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.430	1200		1.340	8300	
1,1-DCE	1.770	670		1.783	2100	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA				3.010	480	
benzene						
1,2-DCA				4.210	360	
trichloroethene	4.153	110		4.157	150	
toluene						
tetrachloroethene	7.700	34				
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10169311 / IWT 24.19 SG 26
Date/time collected: 10-16-93 / 1100
Date/time analyzed: 10-16-93 / 1155
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): MMC

HNK = 10 ppm

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

Off-scale on both detectors - many peaks

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10169312 / TWT 24.19 SG26/10
Date/time collected: 10-16-93 / 1100
Date/time analyzed: 10-16-93 / 1217
Air vol. analyzed: 1.0
Dilution factor: 10.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.370	16,000		1.280		(*)
1,1-DCE	1.820	49,000	E	1.773	150,000	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.333	18,000	
cis-1,2-DCE	3.033	37,000	E	2.983	140,000	
Chloroform				↕	↕	
1,1,1-TCA				2.983	140,000	
benzene						
1,2-DCA				4.197	100,000	
trichloroethene	4.377	50,000	E	4.197	65,000	
toluene	6.163	1100		6.407	740	
tetrachloroethene	8.273		E	7.860	260,000	E
ethyl benzene						
m+p-xylene						
o-xylene				15.130	3200	

TCE & PCE still off scale

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10169313 / IWT 24.19 5627
Date/time collected: 10-16-93 / 1050
Date/time analyzed: 10-16-93 / 1238
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

HNu - negative response

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

Both detectors off-scale

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 101693 14 / IWT 24.19 5627/50
Date/time collected: 10-16-93 / 1050
Date/time analyzed: 10-16-93 / 1300
Air vol. analyzed: 1.0
Dilution factor: 50.0
Analyst(s): MMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.363	110,000		1.453	1,600,000	
1,1-DCE	1.743	56,000				
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE	2.967	140,000		2.973	350,000	
Chloroform				↕	↕	
1,1,1-TCA				2.973	350,000	
benzene						
1,2-DCA				4.803	85,000	
trichloroethene	4.090	26,000		4.0[illegible]	[illegible],000	
toluene	6.390	4400		6.370	8500	
tetrachloroethene	7.810	3000		~~7.827~~	~~3000~~ MMC	
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10169315 / TWT 24.19 SG2.8
Date/time collected: 10-16-93 / 1035
Date/time analyzed: 10-16-93 / 1322
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

HNu - Negative Response.

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.350	2300		1.390	20,000	
1,1-DCE	1.783	4200	E	1.713	25,000	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.317	2500	
cis-1,2-DCE	3.037	3900	E	2.980	11,000	
Chloroform				↑	↑	
1,1,1-TCA				2.980	11,000	
benzene						
1,2-DCA				4.193	11,000	
trichloroethene	4.377	5200	E	4.193	7500	
toluene						
tetrachloroethene	8.056	4500	E	7.843	10,000	
ethyl benzene						
m+p-xylene						
o-xylene				15.963	130	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10169316 / TWT 24,19 5628/10
Date/time collected: 10-16-93 / 1035
Date/time analyzed: 10-16-93 / 1347
Air vol. analyzed: 1.0
Dilution factor: 10.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.357	7100				
1,1-DCE	1.740	6500		1.697	34,000	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.303	2800	
cis-1,2-DCE	2.940	4800		2.970	12,000	
Chloroform						
1,1,1-TCA						
benzene						
1,2-DCA				4.183	14,000	
trichloroethene	4.160	19,000		4.183	8000	
toluene						
tetrachloroethene	7.787	14,000		7.820	15,000	
ethyl benzene						
m+p-xylene						
o-xylene	15.930	7200		15.653	4000	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10169317 / IWT 24.19 SG25
Date/time collected: 10-16-93 / 1100
Date/time analyzed: 10-16-93 / 1408
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC.

HNa = 15 ppm

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

Both detectors saturated

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10169318 / FWT 24.19 5625/10
Date/time collected: 10-16-93 / 1100
Date/time analyzed: 10-16-93 / 1430
Air vol. analyzed: 1.0
Dilution factor: 10.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.383	17,000		1.370	200,000	E
1,1-DCE			E	1.850	260,000	E
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.330	44,000	
cis-1,2-DCE	3.116		E	3.100	290,000	E
Chloroform				↑	↑	
1,1,1-TCA				3.100	290,000	E
benzene						
1,2-DCA				4.220	140,000	
trichloroethene	4.396		E	4.220	76,000	
toluene	6.223	360				
tetrachloroethene	8.853		E	8.230	540,000	E
ethyl benzene						
m+p-xylene						
o-xylene						

Detectors still off-scale

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10169319 / TWT 24.19 SG 69/50
Date/time collected: 10-16-93 /
Date/time analyzed: 10-16-93 / 1451
Air vol. analyzed: 1.0
Dilution factor: 50.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
				1.265		
Vinyl Chloride	1.367	44,000				
1,1-DCE	1.796	260,000	E	1.770	480,000	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.320	58,000	
cis-1,2-DCE	2.987	150,000	E	2.957	690,000	
Chloroform				↕		
1,1,1-TCA				2.957	690,000	
benzene						
1,2-DCA				4.190	210,000	
trichloroethene	4.253	170,000	E	4.190	130,000	
toluene						
tetrachloroethene	8.430		E	8.023	1,700,000	E
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10169320 / JWT 24.19 SG 69/500

Date/time collected: 10-16-93

Date/time analyzed: 10-16-93 / 1505

Air vol. analyzed: 1.0

Dilution factor: 500.0

Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.760	410,000			1.780	730,000	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA					2.390	91,000	
cis-1,2-DCE	2.953	140,000					
Chloroform							
1,1,1-TCA					2.970	960,000	
benzene							
1,2-DCA					4.197	260,000	
trichloroethene	4.170	420,000			4.197	170,000	
toluene							
tetrachloroethene	8.060	2,400,000			7.847	5,200,000	
ethyl benzene	12.133	2900					
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10169321 / AS STD 0.5 ppm
Date/time collected: N/A
Date/time analyzed: 10-16 93 / 1519
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride				1.347	1400	
1,1-DCE				1.793	1100	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.333	650	
cis-1,2-DCE				2.963	1200	
Chloroform				↕	↕	
1,1,1-TCA				2.963	1200	
benzene				3.366	560	
1,2-DCA				4.080	500	
trichloroethene						
toluene				6.273	510	
tetrachloroethene				7.850	840	
ethyl benzene / EB				12.143	1100	
m+p-xylene						
o-xylene				15.937	560	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10169322 / AB STD 0.5 ppm
Date/time collected: NA
Date/time analyzed: 10-16-93 / 1541
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.397	680		1.353	1500	
1,1-DCE	1.770	610		1.783	780	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.340	620	
cis-1,2-DCE	3.030	210		2.983	1200	
Chloroform				↕	↕	
1,1,1-TCA				2.983	1200	
benzene	3.357	370		3.380	500	
1,2-DCA				4.083	510	
trichloroethene						
toluene	6.253	360		6.296	350	
tetrachloroethene	7.816	560		7.827	580	
ethyl benzene	12.183	360		12.160	610	
m+p-xylene						
o-xylene	15.923	400		15.990	380	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10169323 / CD STD 4 ppm
Date/time collected: NA
Date/time analyzed: 10-16-93 / 1605
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
MEK							
* Vinyl Chloride							
1,1-DCE							
* Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
* Chloroform							
* 1,1,1-TCA							
benzene							
* 1,2-DCA							
* trichloroethene							
toluene							
* tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							
Halocarbon 11							
EDB							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10169324 / CA STD 2 ppm
Date/time collected: NA
Date/time analyzed: 10-16-93 / 1627
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

	COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
*	Vinyl Chloride	1.380			*	1.393		
	1,1-DCE							
	Methylene Chloride				*			
	t-1,2-DCE							
	1,1-DCA							
	cis-1,2-DCE							
MEK	Chloroform				*	3.203		
	1,1,1-TCA				*	2.937		
	benzene							
	1,2-DCA				*			
*	trichloroethene	4.170			*	4.133		
	toluene							
*	tetrachloroethene	7.816			*	7.877		
	ethyl benzene / EB	12.157				12.193		
	m+p-xylene							
	o-xylene							
	MEK ~~EB~~	2.497			*	2.523		

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10169325 / CA STD 1 ppm
Date/time collected: NA
Date/time analyzed: 10-16-93 / 1648
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

		PID				FID	
COMPOUND	RT	RESULTS ppbV	QUAL.		RT	RESULTS ppbV	QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10169326 / CD STD 0.5 ppm

Date/time collected: NA

Date/time analyzed: 10-16-93 / 1710

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): BMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA							
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene							
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 1016932 / IWT 24.19 SG24

Date/time collected: 10-16-93 / 1416

Date/time analyzed: 10-16-93 / 1735

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): AMC

	PID			FID		
COMPOUND	RT	RESULTS ppbV	QUAL.	RT	RESULTS ppbV	QUAL.
Vinyl Chloride			E			
1,1-DCE			E			E
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE			E			E
Chloroform						
1,1,1-TCA						
benzene						
1,2-DCA						
trichloroethene			E			E
toluene						
tetrachloroethene			E			E
ethyl benzene						
m+p-xylene						
o-xylene						

Off-scale both detectors

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10169328 / IWT 24.19 SG23
Date/time collected: 10-16-93 / 1430
Date/time analyzed: 10-16-93 /
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

HNu - 10 ppm

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride						
1,1-DCE			E			E
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE			E			E
Chloroform						
1,1,1-TCA						
benzene						
1,2-DCA						
trichloroethene			E			E
toluene						
tetrachloroethene			E			E
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

Off-scale on both detectors
Dil by 50

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10169329 / IWT 24.19 SG29
Date/time collected: 10-16-93 / 1500
Date/time analyzed: 10-16-93 / 1832
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride				1.333	~~13,000~~ 9500	
1,1-DCE	1.753	2500		1.766	1700	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.387	950	
cis-1,2-DCE	2.930	180		2.940	4100	
Chloroform						
1,1,1-TCA				2.940	4100	
benzene						
1,2-DCA				4.190	550	
trichloroethene	4.177	910		4.190	460	
toluene	6.256	980		6.280	1100	
tetrachloroethene	7.970	3100	E	7.840	5700	
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

~~Off-scale and~~
~~[illegible]~~
DMC

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10169330 / TWT 24.19 SG22
Date/time collected: 10-16-93 / 1515
Date/time analyzed: 10-16-93 / 1849
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

HNu = 5 ppm

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.370	1400			1.437	23,000	
1,1-DCE			E				
Methylene Chloride							
t-1,2-DCE							
1,1-DCA					2.323	5600	
cis-1,2-DCE	2.983	2900	E		2.973	15,000	
Chloroform							
1,1,1-TCA					2.973	15,000	
benzene							
1,2-DCA					4.193	2900	
trichloroethene	4.243	3100	E		4.193	1900	
toluene	6.223	150			6.273	310	
tetrachloroethene	7.953	3500	E		7.823	6400	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10167331 / Blank
Date/time collected: N/A
Date/time analyzed: 10-16-93 / 1910
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride						
1,1-DCE	1.790	300		1.783	580	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA				2.920	620	
benzene						
1,2-DCA						
trichloroethene	4.177	38		4.137	95	
toluene						
tetrachloroethene	7.907	120		7.870	380	
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10169332 / Check STD 2 ppm
Date/time collected: NA
Date/time analyzed: 10-16-93 / 1935
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.387	2400		1.407	2200	
1,1-DCE	1.756	2300		1.780	2000	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.337	1900	
cis-1,2-DCE	2.970	1000		2.967	4100	
Chloroform						
1,1,1-TCA				2.967	4100	
benzene	3.337	1400		3.366	1400	
1,2-DCA				4.066	1700	
trichloroethene						
toluene	6.243	1300		6.273	1200	
tetrachloroethene	7.300	1700		7.827	1700	
ethyl benzene / EDB	12.083	1100		12.133	2600	
m+p-xylene						
o-xylene	15.857	1200		15.867	1000	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179301 / Blank

Date/time collected: NA

Date/time analyzed: 10-17-93 / 0736

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): MKA

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride						
1,1-DCE						
Methylene Chloride				1.790	120	
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA				2.940	73	
benzene						
1,2-DCA						
trichloroethene						
toluene						
tetrachloroethene	7.793	70				
ethyl benzene						
m+p-xylene						
o-xylene						
EDB				12.143		

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

PID baseline is drifting downward

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179302 / Check STD 2 ppm
Date/time collected: NA
Date/time analyzed: 10-17-93 / 0759
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.357	2200		1.380	2000	
1,1-DCE	1.737	2300		1.760	1900	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.310	2100	
cis-1,2-DCE	2.963	1800		2.943	4500	
Chloroform				↕	↕	
1,1,1-TCA				2.943	4500	
benzene	3.340	1700		3.337	2200	
1,2-DCA				4.037	2400	
trichloroethene						
toluene	6.203	2300		6.237	1900	
tetrachloroethene	7.770	2500		7.777	2400	
ethyl benzene / EDB	12.040	2200		12.087	3500	
m+p-xylene						
o-xylene	15.726	2400		15.813	1500	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179303 / IWT 24.19 5626/50
Date/time collected: 10-16-93 / 1100
Date/time analyzed: 10-17-93 / 0821
Air vol. analyzed: 1.0
Dilution factor: 50.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride						
1,1-DCE	1.743	130,000		1.763	190,000	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.276	18,000	
cis-1,2-DCE	2.940	60,000		2.957	140,000	
Chloroform						
1,1,1-TCA				2.957	140,000	
benzene						
1,2-DCA				4.167	100,000	
(X) trichloroethene	4.173	140,000	E	4.167	71,000	
toluene	6.253	2400				
tetrachloroethene	7.980	220,000	E	7.796	410,000	
ethyl benzene						
m+p-xylene						
o-xylene						

PID off-scale

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179304 / FWT 24.19 SG25 / 1000
Date/time collected: 10-18-93 / 1100
Date/time analyzed: 10-17-93 /
Air vol. analyzed: 1.0
Dilution factor: 1000
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride						
1,1-DCE	1.727	2,400,000		1.753	3,200,000	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE	2.920	810,000		2.933	2,900,000	
Chloroform						
1,1,1-TCA						
benzene						
1,2-DCA				4.153	1,600,000	
trichloroethene	4.167	2,600,000	E	4.153	1,100,000	
toluene	6.247	16,000				
tetrachloroethene	8.347		E	7.890	33,000,000	E
ethyl benzene						
m+p-xylene						
o-xylene						

PID off-scale

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179305 / IWT 24.195626/250
Date/time collected: 10-16 93 / 1100
Date/time analyzed: 10-17-93 / 0846
Air vol. analyzed: 1.0
Dilution factor: 750.0
Analyst(s): RMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride						
1,1-DCE	1.753	160,000		1.753	250,000	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.293	25,000	
cis-1,2-DCE				2.940	200,000	
Chloroform				↕	↕	
1,1,1-TCA				2.940	200,000	
benzene						
1,2-DCA				4.163	120,000	
trichloroethene	4.130	200,000		4.163	82,000	
toluene	6.320	260,000				
tetrachloroethene	7.770	520,000		7.810	500,000	
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179306 / IWT 24.19 SG25/E5
Date/time collected: 10-16-93 / 1100
Date/time analyzed: 10-17-93
Air vol. analyzed: 1.0
Dilution factor: 100,000
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.750	3,100,000			1.780	43,000,000	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE					2.953	20,000,000	
Chloroform					↕	↕	
1,1,1-TCA					2.953	20,000,000	
benzene							
1,2-DCA							
trichloroethene	4.133	11,000,000					
toluene							
15% tetrachloroethene	7.767	150,000,000			7.780	140,000,000	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID:	10179307 / FWT 24.19 5624 / 50
Date/time collected:	10-16-93 / 1416
Date/time analyzed:	10-17-93 / 0969
Air vol. analyzed:	1.0
Dilution factor:	50.0
Analyst(s):	ANC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride						
1,1-DCE	1.783	240,000	E	1.756	410,000	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.300	44,000	
cis-1,2-DCE	2.953	140,000	E	2.937	530,000	
Chloroform				↕	↕	
1,1,1-TCA						
benzene						
1,2-DCA					(150,000)	
trichloroethene	4.217	160,000	E	4.167	98,000	
toluene						
tetrachloroethene	8.533		E	8.050	1,900,000	E
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179308 / IWT 24.19 SG23/50
Date/time collected: 10-16-93 / 1430
Date/time analyzed: 10-17-93 /
Air vol. analyzed: 1.0
Dilution factor: 50.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.363	62,000				
1,1-DCE	1.790	240,000	E	1.753	480,000	E
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.350	51,000	
cis-1,2-DCE	2.933	89,000		2.923	510,000	
Chloroform						
1,1,1-TCA				2.923	360,000	
benzene						
1,2-DCA					(84,000)	
trichloroethene	4.180	120,000	E	4.160	58,000	E
toluene						
tetrachloroethene	8.423		E	7.976	1,800,000	E
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179309 / IWT 24.19 5629/5
Date/time collected: 10-16-93 / 1500
Date/time analyzed: 10-17-93 / 0933
Air vol. analyzed: 1.0
Dilution factor: 5.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.353	5100				
1,1-DCE	1.740	1800		1.750	7600	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE				2.923		
Chloroform						
1,1,1-TCA				2.923	4200	
benzene						
1,2-DCA					(900)	
trichloroethene	4.150	1700		4.137	650	
toluene	6.200	500		6.223	610	
tetrachloroethene	7.760	6400		7.813	6900	
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179310 / IWT 24.19 5622/5
Date/time collected: 10-16-93 / 1515
Date/time analyzed: 10-17-93 / 0946
Air vol. analyzed: 1.0
Dilution factor: 5.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.756	16,000			1.753	26,000	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA					2.307	3500	
cis-1,2-DCE	2.937	1200			2.937	9600	
Chloroform							
1,1,1-TCA					2.937	7000	
benzene							
1,2-DCA					4.163	(2200)	
trichloroethene	4.148	32000			4.163	1800	
toluene	6.163	570					
tetrachloroethene	7.783	5000			7.823	5300	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179311 / IWT 24.19 SG22/5D
Date/time collected: 10-16-93 / 1515
Date/time analyzed: 10-17-93 / 0957
Air vol. analyzed: 1.0
Dilution factor: 5.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride				1.330	47,000	*
1,1-DCE	1.763	16,000		1.760	25,000	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.317	3300	
cis-1,2-DCE	2.947	1000		2.947	910	
Chloroform						
1,1,1-TCA				2.947	6400	
benzene						
1,2-DCA					(2000)	
trichloroethene	4.160	3100		4.203	1000	
toluene	6.230	410		6.230	240	
tetrachloroethene	7.980	5300		7.823	5000	
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179312- / IWT 24,19 SG21
Date/time collected: 10-17-93 / 0845
Date/time analyzed: 10-17-93 / 1000
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.370	6300				
1,1-DCE	1.727	2000		1.723	59,000	⊛
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE	2.923	820		2.950	3300	
Chloroform						
1,1,1-TCA				2.9~~50~~	6400	
benzene						
1,2-DCA				3.983	4000	
trichloroethene	4.120	1500		~~3.983~~	2600	
toluene	6.213	1500		6.260	1400	
tetrachloroethene	7.880	3200	E	7.793	2600	
ethyl benzene						
m+p-xylene						
o-xylene						

⊛ large hydrocarbon peak

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179313 / IWT 24.19 5624 / 250
Date/time collected: 10-16-93 / 1416
Date/time analyzed: 10-17-93 /
Air vol. analyzed: 1.0
Dilution factor: 250.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride						
1,1-DCE	1.740	430,000		1.763	520,000	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.307	61,000	
cis-1,2-DCE	2.933	150,000		2.940	660,000	
Chloroform				↕	↕	
1,1,1-TCA				(2.940	660,000)	
benzene						
1,2-DCA					220,000	
trichloroethene	4.143	340,000		4.177	110,000	
toluene	6.223	4100				
tetrachloroethene	8.197	1,700,000	E	7.847	5,300,000	
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179314 / FWT 24.19 5623/500
Date/time collected: 10-16-93 / 1430
Date/time analyzed: 10-17-93 / 1041
Air vol. analyzed: 1.0
Dilution factor: 500
Analyst(s): JMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride						
1,1-DCE	1.750	430,000		1.973	600,000	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.520	85,000	
cis-1,2-DCE	2.940	47,000		2.950	720,000	
Chloroform						
1,1,1-TCA				2.950	500,000	
benzene						
1,2-DCA					(150,000)	
trichloroethene	4.160	170,000		4.180	570,000	
toluene						
tetrachloroethene	7.997	2,100,000	E	7.816	4,000,000	
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 101793 15 / IWT 24.19 5624 / 1250

Date/time collected: 10-16-93 / 1416

Date/time analyzed: 10-17-93 / 1054

Air vol. analyzed: 1.0

Dilution factor: 1250

Analyst(s): MMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride						
1,1-DCE	1.750	520,000		1.770	720,000	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.293	45,000	
cis-1,2-DCE	2.937	21,000		2.953	800,000	
Chloroform						
1,1,1-TCA				2.953	570,000	
benzene				3.413	230,000	
1,2-DCA					(350,000)	
trichloroethene	4.140	380,000		4.153	250,000	
toluene						
tetrachloroethene	7.917	4,500,000	E	7.827	6,700,000	
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179316 / IWT 24119 SG23/2500
Date/time collected: 10-16-93 / 1430
Date/time analyzed: 10-17-93 / 1105
Air vol. analyzed: 1.0
Dilution factor: 2500
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.747	550,000			1.790	1,300,000	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE					2.960	820,000	
Chloroform							
1,1,1-TCA					2.960	760,000	
benzene							
1,2-DCA						(150,000)	
trichloroethene	4.153	270,000			4.197	120,000	
toluene	6.060	260,000					
tetrachloroethene	7.773	6,200,000			7.810	6,300,000	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179317 / 2 ppm Syringe
Date/time collected: 10-15-93
Date/time analyzed: 10-17-93 / 1117
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): MLC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.367	1100		1.333	4800	
1,1-DCE	1.740	2100		1.770	1400	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.307	890	
cis-1,2-DCE	2.940	400		2.937	2000	
Chloroform						
1,1,1-TCA						
benzene	3.303	360		3.340	910	
1,2-DCA				4.043	780	
trichloroethene						
toluene	6.223	860		6.250	720	
tetrachloroethene	7.793	770		7.796	790	
ethyl benzene / EB	12.090	530		12.143	1200	
m+p-xylene						
o-xylene	15.803	400		15.827	300	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179318 / 2-ppm Tedlar
Date/time collected: 10-15-93 / 11
Date/time analyzed: 10-17-93 / 1138
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.383	2300		1.403	1700	
1,1-DCE	1.760	2500		1.786	1600	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.333	1700	
cis-1,2-DCE	2.960	670		2.963	3200	
Chloroform				↕	↕	
1,1,1-TCA				2.963	3200	
benzene	3.340	750		3.373	1500	
1,2-DCA				4.087	1300	
trichloroethene						
toluene	6.267	1400		6.296	1000	
tetrachloroethene	7.837	1700		7.853	1500	
ethyl benzene/EDB	12.170	990		12.213	1600	
m+p-xylene						
o-xylene	15.937	760		15.917	410	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179319 / IWT 24,19 SG19
Date/time collected: 10-17-93 / 0913
Date/time analyzed: 10-17-93 / 1200
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.417	1500		1.377	13,000	*
1,1-DCE	1.790	3200		1.786	4000	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.357	310	
cis-1,2-DCE	2.997	2300		3.003	4300	
Chloroform				↕	↕	
1,1,1-TCA				3.003	4300	
benzene						
1,2-DCA					(2800)	
trichloroethene	4.280	3200	E	4.230	1700	
toluene						
tetrachloroethene	8.657		E	8.120	41,000	E
ethyl benzene						
m+p-xylene						
o-xylene						

* - Hydrocarbon peak

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179320 / IWT 24.19 SG19 / 100
Date/time collected: 10-17-93 / 0913
Date/time analyzed: 10-17-93 / 1121
Air vol. analyzed: 1.0
Dilution factor: 100.0
Analyst(s): AMC

COMPOUND	RT	PID RESULTS ppbV	QUAL.		RT	FID RESULTS ppbV	QUAL.
Vinyl Chloride							
1,1-DCE	1.743	10,000			1.783	48,000	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE					(2.950	40,000)	
Chloroform							
1,1,1-TCA					2.950	40,000	
benzene					3.273	4200	
1,2-DCA					4.223	(10,000)	
trichloroethene	4.186	29,000			4.223	10,000	
toluene							
tetrachloroethene	7.990	340,000	E		7.907	270,000	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179321 / IWT 24.19 SG20
Date/time collected: 10-17-93 / 0910
Date/time analyzed: 10-17-93 / 1237
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
				1.490		E ⊗
Vinyl Chloride	1.400	3000				
1,1-DCE	1.737	1200				
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE	2.960	1200		2.987	2100	
Chloroform						
1,1,1-TCA				2.987	1400	
benzene						
1,2-DCA					(2400)	
trichloroethene	4.263	3700	E	4.210	1800	
toluene						
tetrachloroethene	8.237		E	7.887	14,000	
ethyl benzene						
m+p-xylene						
o-xylene						

⊗ - Hydrocarbon peak

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179322 / FWT 24.19 5620/10
Date/time collected: 10-17-93 / 0910
Date/time analyzed: 10-17-93 / 1254
Air vol. analyzed: 1.0
Dilution factor: 10.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.	
Vinyl Chloride	1.380	10,000			1.343	76,000		*
1,1-DCE	1.747	850						
Methylene Chloride								
t-1,2-DCE								
1,1-DCA								
cis-1,2-DCE	2.953	750			3.010	2000		
Chloroform					↕	↕		
1,1,1-TCA					3.010	2000		
benzene								
1,2-DCA						(2900)		
trichloroethene	4.186	7500			4.213	2100		
toluene								
tetrachloroethene	7.863	23,000			7.917	20,000		
ethyl benzene								
m+p-xylene								
o-xylene								

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

(*) - Hydrocarbon peak

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179323 / DWT 24.19 SG18
Date/time collected: 10-17-93 / 0955
Date/time analyzed: 10-17-93 / 1310
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
				1.620		
Vinyl Chloride	1.430	10,000				
1,1-DCE						
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA						
benzene						
1,2-DCA						
trichloroethene	4.213	120				
toluene						
tetrachloroethene	7.880	260		7.913	230	
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

Clean

Hydrocarbon peak

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179324 / TWT 24.19 5617
Date/time collected: 10-17-93 / 1000
Date/time analyzed: 10-17-93 / 1331
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
				1.513		E ⊛
Vinyl Chloride	1.413	3000				
1,1-DCE	1.796	3700				
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE	3.013	2600		2.997	5800	
Chloroform				↕	↕	
1,1,1-TCA				2.997	5800	
benzene						
1,2-DCA					(2600)	
trichloroethene	4.263	3500	E	4.223	1700	
toluene						
tetrachloroethene	8.803		E	8.203	47,000	E
ethyl benzene						
m+p-xylene						
o-xylene						

⊛ Hydrocarbon peak

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179325 / TWT 24.19 SG 17/250
Date/time collected: 10-17-93 / 1000
Date/time analyzed: 10-17-93 / 1353
Air vol. analyzed: 1.0
Dilution factor: 250
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.770	33,000			1.823	68,000	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					3.003	43,000	
benzene					3.353	7300	
1,2-DCA						(25,000)	
trichloroethene	4.183	42,000			4.243	19,000	
toluene							
tetrachloroethene	7.980	750,000	E		7.913	780,000	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179326 / TWT24195G16
Date/time collected: 10-17-93 / 1040
Date/time analyzed: 10-17-93 / 1404
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
				1.290		
Vinyl Chloride						
1,1-DCE	1.790	250		1.827	470	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA				3.060	260	
benzene						
1,2-DCA						
trichloroethene	4.200	81		4.243	51	
toluene						
tetrachloroethene	7.877	240		7.923	190	
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

Clean

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179327 / IWT 24.19 SG 15
Date/time collected: 10-17-93 / 1043
Date/time analyzed: 10-17-93 / 1426
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.413	2400			1.403	22,000	
1,1-DCE	1.760	160					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					2.987	320	
benzene							
1,2-DCA						(150)	
trichloroethene	4.186	320			4.186	140	
toluene							
tetrachloroethene	7.863	3500	E		7.900	4000	
ethyl benzene							
m+p-xylene							
o-xylene							

(*) Hydrocarbon peak

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179325 / SVT 32.8 5627
Date/time collected: 10-17-93 / 1120
Date/time analyzed: 10-17-93 / 1448
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
				1.133		
Vinyl Chloride	1.427	2400				
1,1-DCE	1.753	290				
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA				2.123	360	
benzene						
1,2-DCA						
trichloroethene						
toluene				6.260	130	
tetrachloroethene				7.833	220	
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

PID – ~~0~~ zero through chromatogram (CO_2 or H_2O)

(*) Hydrocarbon peak

CHANF1.XLS

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179329 / SWT 32.8 SG26
Date/time collected: 10-17-93 / 1125
Date/time analyzed: 10-17-93 / 1520
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
				1.855		
Vinyl Chloride	1.380	3800				
1,1-DCE	1.770	360				
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE	2.947	110		2.947	570	
Chloroform						
1,1,1-TCA						
benzene						
1,2-DCA						
trichloroethene						
toluene	6.290	200		6.316	130	
tetrachloroethene	7.863	470		7.900	530	
ethyl benzene / EDB				12.350	140	
m+p-xylene						
o-xylene						

(*) Hydrocarbon peak

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179330 / SCUT 32.8 SG25
Date/time collected: 10-17-93 / 1313
Date/time analyzed: 10-17-93 / 1545
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					2.930	370	
benzene							
1,2-DCA						(1200)	
trichloroethene	4.060	280			4.030	870	
toluene	6.450	170					
tetrachloroethene	7.873	2500			7.896	1800	
ethyl benzene / EDB					12.216	150	
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179331 / SCOT 32.8 SG750

Date/time collected: 10-17-93 /

Date/time analyzed: 10-17-93 / 1606

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					2.920	480	
benzene							
1,2-DCA						(1500)	
trichloroethene	4.140	690			4.046	1000	
toluene	6.450	140			6.467	230	
tetrachloroethene	7.890	490			7.893	440	
ethyl benzene / EDB					12.283	270	
m+p-xylene							
o-xylene	15.077	130					

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179332 / SWT 32.8 SG 2.4
Date/time collected: 10-17-93 / 1320
Date/time analyzed: 10-17-93 / 1627
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.750	2200					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE	2.963	1400			2.973	2100	
Chloroform					↕	↕	
1,1,1-TCA					2.973	2100	
benzene							
1,2-DCA						(1200)	
trichloroethene	4.250	2600			4.210	780	
toluene							
tetrachloroethene	8.497		E		8.027	30,000	E
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179333 / SWT 32.8 5624/500
Date/time collected: 10-17-93 / 1320
Date/time analyzed: 10-17-93 / 1649
Air vol. analyzed: 1.0
Dilution factor: 500
Analyst(s): MMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride				1.337	10,000,000	E *
1,1-DCE	1.763	33,000				
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA				3.010	69,000	
benzene						
1,2-DCA						
trichloroethene	4.197	140,000		4.233	16,000	
toluene						
tetrachloroethene	7.867	1,100,000		7.890	1,000,000	
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179334 / IWT 24.19 SG30
Date/time collected: 10-17-93 / 1353
Date/time analyzed: 10-17-93 / 1709
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): BMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride						
1,1-DCE	1.793	420		1.827	820	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE						
Chloroform						
1,1,1-TCA				2.963	400	
benzene						
1,2-DCA						
trichloroethene	4.203	120		4.207	46	
toluene						
tetrachloroethene	7.883	500		7.883	570	
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179335 / I-WT 24.19 5617/500
Date/time collected: 10-17-93 / 1000
Date/time analyzed: 10-17-93 / 1731
Air vol. analyzed: 1.0
Dilution factor: 500
Analyst(s): MMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride						
1,1-DCE	1.773	670,000		1.810	590,000	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE	2.970	200,000		2.997	550,000	
Chloroform						
1,1,1-TCA						
benzene						
1,2-DCA					(240,000)	
trichloroethene	4.193	420,000		4.210	160,000	
toluene						
tetrachloroethene	8.333		E	7.957	12,000,000	
ethyl benzene						
m+p-xylene						
o-xylene						

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179336 / IWT 24.195617/50,000
Date/time collected: 10-17-93 / 1000
Date/time analyzed: 10-17-93 / 1753
Air vol. analyzed: 1.0
Dilution factor: ~~100~~ 50,000
Analyst(s): AMLC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE	1.793	5,100,000			1.803	11,000,000	
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					3.003	16,000,000	
benzene							
1,2-DCA							
trichloroethene	4.203	25,000,000					
toluene							
tetrachloroethene	7.853	53,000,000			7.840	45,000,000	
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179337 / IWP 24.19 SG 15/10
Date/time collected: 10-17-93 / 1043
Date/time analyzed: 10-17-93 / 1817
Air vol. analyzed: 1.0
Dilution factor: 10.0
Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.390	7800		1.337	36,000	*
1,1-DCE	1.766	2700		1.880	6300	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA						
cis-1,2-DCE	2.947	490		2.967	1300	
Chloroform				↕	↕	
1,1,1-TCA				2.967	1300	
benzene						
1,2-DCA					(530)	
trichloroethene	4.167	1900		4.193	2180	
toluene						
tetrachloroethene	7.910	27,000	E	7.883	23,000	
ethyl benzene						
m+p-xylene						
o-xylene						

* Hydrocarbon peak

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179338 / SWT 32.8 SG27
Date/time collected: 10-17-93 / 1120
Date/time analyzed: 10-17-93 / 1832
Air vol. analyzed: 1.0
Dilution factor: 1.0
Analyst(s): AMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
					1.877		E (K)
Vinyl Chloride	1.420	2100					
1,1-DCE	1.753	280					
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE							
Chloroform							
1,1,1-TCA					2.937	310	
benzene							
1,2-DCA							
trichloroethene	4.180	98			4.083	130	
toluene	6.270	110					
tetrachloroethene	7.840	180			7.856	180	
ethyl benzene							
m+p-xylene							
o-xylene							

(K) Hydrocarbon peak

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 10179339 / Blank Water HS

Date/time collected: NA

Date/time analyzed: 10-17-93 / 1853

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.		FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride							
1,1-DCE							
Methylene Chloride							
t-1,2-DCE							
1,1-DCA							
cis-1,2-DCE					2.937	~~150~~ 75	
Chloroform							
1,1,1-TCA					2.937	~~150~~ ~~75~~ 48	
benzene							
1,2-DCA							
trichloroethene							
toluene							
tetrachloroethene	7.833	80					
ethyl benzene							
m+p-xylene							
o-xylene							

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given

FORM 1

Sample Data Summary for Soil Gas VOC by GC PID/FID

Sample ID: 1017934/0 / Check STD 2ppm

Date/time collected: NA

Date/time analyzed: 10-17-93 / 1916

Air vol. analyzed: 1.0

Dilution factor: 1.0

Analyst(s): DMC

COMPOUND	PID RT	PID RESULTS ppbV	PID QUAL.	FID RT	FID RESULTS ppbV	FID QUAL.
Vinyl Chloride	1.367	2000		1.383	2100	
1,1-DCE	1.740	2000		1.766	1600	
Methylene Chloride						
t-1,2-DCE						
1,1-DCA				2.323	1800	
cis-1,2-DCE	2.950	770		2.953	3100	
Chloroform				↕		
1,1,1-TCA				2.953	3100	
benzene	3.323	940		3.353	1300	
1,2-DCA				4.073	1600	
trichloroethene						
toluene	6.263	1000		6.290	590	
tetrachloroethene	7.823	1500		7.877	1300	
ethyl benzene/EtB	12.200	780		12.237	980	
m+p-xylene						
o-xylene	15.970	520		16.030	230	

KEY
X = Value exceeds calibration linear range
U = Analyzed for but not detected at the value given