

**APPENDIX A –  
HISTORICAL  
BORING LOGS**

# SOIL BORING LOG

KM-5655-A

KERR-McGEE CORPORATION Hydrology Dept. Engineering Services			KM SUBSIDIARY Cimarron OK		LOCATION Areas C & F		BORING NUMBER 02W2			
DEPTH IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER FOOT	PID (ppm)	SOIL SAMPLE			REMARKS OR FIELD OBSERVATIONS	
						NO.	TYPE	DEPTH		REC.
5    10   15	Sand: silty, vfn 5YR5/6 : vfn, dry		SM					5.0	5.0	
	Sand: vfn 5YR5/8, silty : w/4r blk organic		SM							
	Sand: vfn 5YR5/4		SM					10.0	4.8	Water level ▽
	clay: soft, moist, plastic		CL					15.0	3.8	
	Mudstone-laminated silt & clay Sandstone bedrock 5YR4/6		ML					18.0	4.2	
										TD 18.0'

  

EXPLANATION	▼ Water Table (24 Hour)	GRAPHIC LOG LEGEND		DATE DRILLED 7/15/02	PAGE of
	▽ Water Table (Time of Boring)	CLAY	DEBRIS FILL	DRILLING METHOD HSA - Continuous Sampler	
	PID Photoionization Detection (ppm)	SILT	HIGHLY ORGANIC (PEAT)	DRILLED BY AEI - J. Graham	
	NO. Identifies Sample by Number	SAND	SANDY CLAY	LOGGED BY J. Poor	
TYPE Sample Collection Method	GRAVEL	CLAYEY SAND	EXISTING GRADE ELEVATION (FT. AMSL.)		
SPLIT-BARREL	AUGER	SILTY CLAY	MUDSTONE	LOCATION OR GRID COORDINATES 915N 1225E	
THIN-WALLED TUBE	CONTINUOUS SAMPLER	CLAYEY SILT			
ROCK CORE		DEPTH Depth Top and Bottom of Sample			
NO RECOVERY		REC. Actual Length of Recovered Sample in Feet			

# SOIL BORING LOG KM-5655-A

KERR-McGEE CORPORATION Hydrology Dept. Engineering Services			KM SUBSIDIARY Cimarron OK		LOCATION Areas C & F		BORING NUMBER 02W32			
DEPTH IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER FOOT	PID (ppm)	SOIL SAMPLE				REMARKS OR FIELD OBSERVATIONS
						NO.	TYPE	DEPTH	REC.	
2	0-2.0 SAND, silty (20% zone - com organic) vf-fg dk red (2.5YR 3/6)		SM							
5	2.0-5.0 SAND, cln-sil silty (<10%), red (2.5YR 4/6), vf-fg, SR-SA @ 4.0-1" clay lens @ 4.5-1" clay lens		SP					5	4.0	
7.5			SM/ CL							
9.5			CL							
10	5.0-7.5 SAND, silty & CLAY silty-interbedded in thin varves (overbank deposits), red vfg SR (2.5YR 4/8) + dusky red clay (2.5YR 3/2).		SM					10	5.0	H <sub>2</sub> O @ 9.5' ▽
18.5	7.5-9.5 CLAY, silty dusky red (2.5YR 3/2)		SP							
20.2	9.5-10.0 SAND, silty (30%), vf-fg, SA-SR, red (2.5YR 3/2)		SM					20	3.0	
20.5			MDST					21	1.0	
	10.0-18.5 SAND, cln, f-mg w/cg. R-SR, flows, yell gry (5YR 8/1) to 13.0 13.0-18.5 v. pale oran (10YR 8/2). Inc grain size: m-cg w/minor veg									
	18.5-20.5 SAND, silty 20-30% dissem in matrix & minor thin silt layers. dk red brn (5YR 3/4), f-vc w/minor pea gravel.									
	20.5-21.0 MDSTONE Clay + silt, red (2.5YR 4/6) & lt grn gry (5YR 8/1)									

  

EXPLANATION	▽ Water Table (24 Hour)	GRAPHIC LOG LEGEND		DATE DRILLED 7-31-04	PAGE 1 of 1
	▽ PID NO. TYPE	CLAY SILT SAND GRAVEL SILTY CLAY CLAYEY SILT		DEBRIS FILL HIGHLY ORGANIC (PEAT) SANDY CLAY CLAYEY SAND MUDSTONE	
	SPLIT BARREL	AUGER	ROCK CORE	DRILLING METHOD HSA - Continuous Sampler	
	THIN-WALLED TUBE	CONTINUOUS SAMPLER	NO RECOVERY	DRILLED BY AEI - J. Graham	
	DEPTH: Depth Top and Bottom of Sample REC.: Actual Length of Recovered Sample in Feet			LOGGED BY J. Poor ED KRISH	
			EXISTING GRADE ELEVATION (FT AMSL)		
			LOCATION OR GRID COORDINATES 941 N 1219 E		

[illegible]

# SOIL BORING LOG

CINARRON SITE		SUBSIDIARY		LOCATION		BORING NUMBER		
				BUJAL ACEA #1		1373		
DEPTH IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER FOOT	PID (ppm)	SOIL SAMPLE		REMARKS OR FIELD OBSERVATIONS
						NO.	TYPE	
0-3'	LIGHT TAN SILT, ADPHASTIC Dry (2.5Y 8/6)		SM					
3-5'	LIGHT TAN VERY FINE SAND		SP					100%
5-15'	LIGHT TAN VERY FINE SAND WITH THIN MUD STRINGERS (1-2")		SP					100%
15-25'	LIGHT TAN MEDIUM TO COARSE SAND		SP					100%
25-25.5'	RED SANDSTONE SR-7(SR5/B)		SP					100%

  

EXPLANATION		GRAPHIC LOG LEGEND		DATE DRILLED		PAGE	
	Water Table (24 Hour)		CLAY		DEBRIS FILL	12/9/2014	1 of 1
	Water Table (Time of Boring) Photolonization Detection (ppm) Identifies Sample by Number Sample Collection Method		SILT		HIGHLY ORGANIC (PEAT)	DRILLING METHOD	
	SPLIT-BARREL		SAND		SANDY CLAY	HOLLOW STEM AUGERS	
	THIN-WALLED TUBE		GRAVEL		CLAYEY SAND	DRILLED BY	
	AUGER		SILTY CLAY			CHARLES CLARK	
	ROCK CORE		CLAYEY SILT			LOGGED BY	
	CONTINUOUS SAMPLER					DAVE KAYLOR	
	NO RECOVERY					EXISTING GRADE ELEVATION (FT. AMSL)	
DEPTH. Depth Top and Bottom of Sample REC. Actual Length of Recovered Sample in Feet						LOCATION OR GRID COORDINATES	



# SOIL BORING LOG KM-5655-A

KERR-McGEE CORPORATION Hydrology Dept. Engineering Services		KM SUBSIDIARY <b>Cimarron</b>	LOCATION <b>900N, 150E</b>		BORING NUMBER <b>T 51</b>			
DEPTH IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER FOOT	PID (ppm)	SOIL SAMPLE		REMARKS OR FIELD OBSERVATIONS
						NO.	TYPE	
5	Silt: w/ vfn sand, 54R 4/4		MH					
	clay:		CH					
5	Silt:		MH					
	Sand: fn-vfn 54R 6/6							
10	Sand: med, 54R 7/4, crs 5%		SW					water @ 6.0'
	Clay:		CL					
10	Sand: med		SV					
	Sand: fine							
15	Sand: med - crs							
	Sand: vcrs, wrdd, p.grd							
15	7.54R 6/4							
	Sand: vcrs, w. rdd, p.grd		SW					
20	7.54R 5/4							
	Sand: vcrs, wrdd, p.grd, 5% chert		SW					
20	Bedrock 19.0, gravel & clay		GC					
	TD 20.0'							

  

EXPLANATION	GRAPHIC LOG LEGEND			DATE DRILLED	PAGE
	<div>▼ Water Table (24 Hour)</div> <div>▽ Water Table (Time of Boring)</div> <div>PID Photoionization Detection (ppm)</div> <div>NO. Identifies Sample by Number</div> <div>TYPE Sample Collection Method</div> <div> <div>□ SPLIT-BARREL</div> <div>□ THIN-WALLED TUBE</div> <div>□ AUGER</div> <div>□ CONTINUOUS SAMPLER</div> <div>□ ROCK CORE</div> <div>□ NO RECOVERY</div> </div> <div>DEPTH Depth Top and Bottom of Sample</div> <div>REC. Actual Length of Recovered Sample in Feet</div>	<div>CLAY</div> <div>SILT</div> <div>SAND</div> <div>GRAVEL</div> <div>SILTY CLAY</div> <div>CLAYEY SILT</div> <div>DEBRIS FILL</div> <div>HIGHLY ORGANIC (PEAT)</div> <div>SANDY CLAY</div> <div>CLAYEY SAND</div>	<div>4/11/03</div> <div>1 of 1</div> <div>Auger.</div> <div>AEI</div> <div>J. POOR</div> <div>938.0 PIN 940.5 TOL</div> <div>900N-150E</div>		

# SOIL BORING LOG KM-5655-A

KERR-McGEE CORPORATION Hydrology Dept. Engineering Services			KM SUBSIDIARY Cimarron		LOCATION 900N, 150E		BORING NUMBER T 51	
DEPTH IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER FOOT	PID (ppm)	SOIL SAMPLE		REMARKS OR FIELD OBSERVATIONS
						NO.	TYPE	
5	Silt: w/ vfn sand, 54R 4/4 clay: Silt: Sand: fn-vfn 54R 6/6 Sand: med, 54R 7/4, crs 5% Clay: Sand: med Sand: fine Sand: med-crs		MT CH MT SW CH SW			1		5.0 5.0
10	Sand: vcrs, wrdd, p.grd 7.54R 6/4		SW			2		10.0 2.5
15	Sand: vcrs, wrdd, p.grd 7.54R 5/4		SW			3		15.0 1.8
20	Sand: vcrs, wrdd, p.grd, 5% chert Bedrock 19.0, gravel & clay		SW GC			4		20. 2.5
TD 20.0'								

  

EXPLANATION		Water Table (24 Hour)	GRAPHIC LOG LEGEND		DATE DRILLED	PAGE
		Water Table (Time of Boring)			4/1/03	1 of 1
		SPLIT-BARREL		CLAY	DRILLING METHOD	
		AUGER		SILT	Auger	
		THIN-WALLED TUBE		SAND	DRILLED BY	
	CONTINUOUS SAMPLER		GRAVEL	AEI		
	NO RECOVERY		SANDY CLAY	LOGGED BY		
			CLAYEY SAND	J. POOR		
DEPTH	Depth Top and Bottom of Sample		CLAY	EXISTING GRADE ELEVATION (FT AMSL)		
REC.	Actual Length of Recovered Sample in Feet		SILTY CLAY	138.0 PIN 940.5 TOL		
			CLAYEY SILT	LOCATION OR GRID COORDINATES		
				900N-150E		

KERR-McGEE CORPORATION Hydrology Dept. Engineering Services			KM SUBSIDIARY <b>Cimarron</b>		LOCATION <b>900N-450 E</b>		BORING NUMBER <b>T-59</b>			
DEPTH IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER FOOT	PID (ppm)	SOIL SAMPLE				REMARKS OR FIELD OBSERVATIONS
						NO.	TYPE	DEPTH	REC.	
5	Silt: fn sand, 54R 5/4		ML			1		5		V
	dry clayey silt 54R 5/4		ML-CL							
	Sand: fn, w. srt, p. grd 54R 5/6		SP							
	Sand: fn, w srt, 54R 5/6		SP							
	Sand: fn, 54R 5/6		SP							
	Sand: mod, 54R 5/6		SP							
20	Sand: fn w/ clay layers 104R 3/6		SC			4		20		
	tr SS pieces, 1/2"		SM							
25	Sand: silty, 104R 2/6					5		25		
	Bedrock: SS, 26'									
	TD 27.0'									

**EXPLANATION**

▼ Water Table (24 Hour)

▽ Water Table (Time of Boring)

PID Photoionization Detection (ppm)

NO. Identifies Sample by Number

TYPE Sample Collection Method

⊗ SPLIT-BARREL

■ THIN-WALLED TUBE

■ AUGER

■ CONTINUOUS SAMPLER

■ ROCK CORE

⊘ NO RECOVERY

DEPTH Depth Top and Bottom of Sample

REC. Actual Length of Recovered Sample in Feet

**GRAPHIC LOG LEGEND**

▨ CLAY

▨ SILT

▨ SAND

▨ GRAVEL

▨ SILTY CLAY

▨ CLAYEY SILT

▨ DEBRIS FILL

▨ HIGHLY ORGANIC (PEAT)

▨ SANDY CLAY

▨ CLAYEY SAND

DATE DRILLED  
**4/3/03**

PAGE **1** of **1**

DRILLING METHOD  
**HSA**

DRILLED BY  
**B. Graham**

LOGGED BY  
**J. Poor**

EXISTING GRADE ELEVATION (FT. AMSL)  
**TOC 938.2 pin 936.2**

LOCATION OR GRID COORDINATES  
**900N-450 E**



## SOIL BORING LOG KM-5655-A

MONTAILE WELLS

KERR-McGEE CORPORATION Hydrology Dept. Engineering Services		KM SUBSIDIARY CIMARRON	LOCATION SEEP 1206 Alluvium		BORING NUMBER T-68					
DEPTH IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER FOOT	PID (ppm)	SOIL SAMPLE				REMARKS OR FIELD OBSERVATIONS
						NO.	TYPE	DEPTH	REC.	
5	Silty clay 7.5% silt strong brown silty moist		CL							Sample description from auger flight sample
	Silt, sandy w/ depth vt-fs									
10	Sand 5% silt 5/6 yel red saturated									
	W-mgr sand silty									
15			SW							
20	Sand f.c.s.s.g some v.c.s.s silt 4/6 yel red silty inc silt									
25	sm gravels		SM							
	Red Shale									
30	+1 Bed. ock 27'									
	Total depth 27'									
	Red shale on bit									

  

EXPLANATION	Water Table (24 Hour)			GRAPHIC LOG LEGEND		DATE DRILLED	PAGE
	<div></div> Water Table (Time of Boring) <div></div> PID <div></div> NO. <div></div> TYPE	<div></div> SPLIT-BARREL <div></div> THIN-WALLED TUBE	<div></div> AUGER <div></div> CONTINUOUS SAMPLER	<div></div> ROCK CORE <div></div> NO RECOVERY	<div></div> CLAY <div></div> SILT <div></div> SAND <div></div> GRAVEL <div></div> SILTY CLAY <div></div> CLAYEY SILT	<div></div> DEBRIS FILL <div></div> HIGHLY ORGANIC (PEAT) <div></div> SANDY CLAY <div></div> CLAYEY SAND	4-16-04
<div></div> DEPTH Depth Top and Bottom of Sample <div></div> REC. Actual Length of Recovered Sample in Feet	<div></div> DRILLING METHOD <div></div> DRILLED BY <div></div> LOGGED BY <div></div> EXISTING GRADE ELEVATION (ft) AMSL <div></div> LOCATION OR GRID COORDINATES						

# Drilling Log

Project Name <b>CERT</b>		Project Number		Boring Number <b>T-84</b>						
Ground Elevation		Location		Page <b>1 of 2</b>						
Air Monitoring Equipment				Total Footage <b>28'</b>						
Drilling Type	Hole Size	Overburden Footage	Bedrock Footage	No. of Samples	No. of Core Boxes					
<b>HSA</b>	<b>8 1/4"</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>					
Drilling Company <b>DAVIS ENVIRONMENTAL DRILLING</b>			Driller(s) <b>ROLAND DAVIS</b>							
Drilling Rig <b>CME</b>			Type of Sampler <b>Continuous to 10'</b>							
Date <b>4-11-11</b>		To <b>4-11-11</b>		Field Observer(s) <b>JIM CRAWFORD</b>						
Depth (feet)	Description	Class	Blow Count	Recov.	Run/Time	Sample Desig.	PID (ppm)			Remarks/ Water Levels
							BZ	BH	S	
1	Upper 6" root zone Silty clay reddish brown firm low plastic moist				1000					Cuttings Scanned with Ludlum Micro R meter - all readings at background thru out boring
2	2.5' becoming sandy silt with some clay			5/5						
3	3.5-4' wet perched zone silt reddish brown fast dilatent cell									
4	4' sand fine grained poorly graded loose yellow orange moist silty			5	1010					
5										
6	Sand becoming fine to coarse grained well graded rd brn			2/5						PERCHED 3.5'
7										
8	No Recovery									
9										
10				10						
11	Description from Auger flights									At 10', install wood plug in Auger bit
12	Sand light brown to yellow orange loose saturated									
13										
14										

# Drilling Log Continuation

Project Name						Boring Number				
CERT						T-84				
Project Number						Page				
						20F2				
						Date				
						4-11-11				
Depth (feet)	Description	Class	Blow Count	Recov.	Run/ Time	Sample Desig.	PID (ppm)			Remarks/ Water Levels
							BZ	BH	S	
15				15	1025					
16	Sand fine to coarse grained silty well graded loose some small gravel (max 5mm)									
17										
18										
19										
20				20						
21										
22										
23										
24										
25	Sand fine to very coarse grained silty small gravel. max 1/4"			25	1035					
26										
27	Sandstone vfg brick red						DRILLER FELT A CHANGE IN DRILLING AT 27' - "CRUNCHY"			
28										
29	Total depth 28'									
30										

BZ=Breathing Zone

BH=Bore Hole

S=Sample

# SOIL BORING LOG

CIMARRON SITE		SUBSIDIARY		LOCATION		BORING NUMBER		
				WESTERN ALLUVIAL AREA		T-97		
DEPTH IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER FOOT	PID (ppm)	SOIL SAMPLE		REMARKS OR FIELD OBSERVATIONS
						NO.	TYPE	
0-4'	LIGHT TAN TO BROWN SAND, VERY FINE GRAINED, DRY (10R 3/1)		SP				100%	
4-10'	TAN TO BROWN SILTY SAND, SOME MUD STRINGS, LOW PLASTICITY, SOME MOISTURE (2.5Y 8/E)		SM				100%	
10-20'	TAN TO BROWN SAND, FINE TO MEDIUM GRAINED, LOW PLASTICITY, SOME MOISTURE		SP				100%	
20-25'	LIGHT TAN SAND, MEDIUM GRAINED WITH SOME GRAVEL, LOW PLASTICITY, SOME MOISTURE		SP				100%	
25-30'	LIGHT TAN SAND, MEDIUM TO COARSE GRAINED WITH GRAVEL, LOW PLASTICITY, WET		SP				100%	
30-31'	RED BROWN SANDSTONE		SP					

  

EXPLANATION			GRAPHIC LOG LEGEND		DATE DRILLED		PAGE	
Water Table (24 Hour)	Water Table (Time of Boring)	Photoionization Detection (ppm)	CLAY	DEBRIS FILL	12/4/2014		1 of 1	
PID NO. TYPE	Identifies Sample by Number	Sample Collection Method	SILT	HIGHLY ORGANIC (PEAT)	DRILLING METHOD			
SPLIT-BARREL	AUGER	ROCK CORE	SAND	SANDY CLAY	Hollow Stem Auger			
THIN-WALLED TUBE	CONTINUOUS SAMPLER	NO RECOVERY	GRAVEL	CLAYEY SAND	DRILLED BY			
			SILTY CLAY		CHARLES CLARK			
			CLAYEY SILT		LOGGED BY			
					DANE KAYLOR			
					EXISTING GRADE ELEVATION (FT. AMEL)			
					LOCATION OR GRID COORDINATES			

  

DEPTH. Depth Top and Bottom of Sample	
REC. Actual Length of Recovered Sample in Feet	

KERR-MCGEE CORPORATION Hydrology Dept. - S&EA Division		KM SUBSIDIARY Cimarron Corp.		LOCATION Burial Area #1		BORING NUMBER 900 N-1235E				
DEPTH IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER 5'	PID (ppm)	SOIL SAMPLE				REMARKS OR FIELD OBSERVATIONS
						NO.	TYPE	DEPTH	REC.	
1030	brn sdy silt bcmg silty sd rd brn @ 2.5-3'		Sm						3	
5	yell rd silty sd becoming yell brn silty sd								5	
10	silty clay yellow red stiff crumbly non-plastic wet sdy silt soft sli dilat. becoming clayey		SC						4.4	
15	clayey sand yell rd firm sli plastic		SC						4.6	
15	silt silty clay yell red - rd brn stiff blk stroke								15	
15	13-15 rd clay sdy lams plastic									
15	18.3-18.5 silty gravel rd yell		ML						4.8	
20	rd brn silty clay wet blk soft silty shale red								20	
20	rd sdy shale								3.5	chips 22-23.5
1100	25 TD 23.5								23.5	

  

EXPLANATION	Water Table (24 Hour)			Water Table (Time of Boring)			PID			NO.			TYPE				
	SPLIT-BARREL		AUGER		ROCK CORE		THIN-WALLED TUBE		CONTINUOUS SAMPLER		NO RECOVERY						
DEPTH Depth Top and Bottom of Sample																	
REC. Actual Length of Recovered Sample in Feet																	

  

GRAPHIC LOG LEGEND		DATE DRILLED	PAGE
	CLAY	8-30-99	1 of 1
	SILT	DRILLING METHOD	
	SAND	DRILLED BY	
	GRAVEL	LOGGED BY	
	SILTY CLAY	J Crawford	
	CLAYEY SILT	EXISTING GRADE ELEVATION (FT AMSL)	
	DEBRIS FILL	900 N-1235E	
	HIGHLY ORGANIC (PEAT)	LOCATION OR GRID COORDINATES	
	SANDY CLAY		
	CLAYEY SAND		
	shale		

# SOIL BORING LOG

KERR-McGEE CORPORATION Hydrology Dept. Engineering Services		KM SUBSIDIARY CIMARRON	LOCATION Alluvium		BORING NUMBER T-67					
DEPTH IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER FOOT	PID (ppm)	SOIL SAMPLE				REMARKS OR FIELD OBSERVATIONS
						NO.	TYPE	DEPTH	REC.	
5	Sandy clay 5YR 4/4 redish brown soft moist		CL							Drilling 8.75" AUGER HOLE
10	Sand 5YR 4/6 yell red f-med gr. moist unconsol p. graded		SP							SAMPLES Logged from AUGER FLIGHTS
15	Sand Arab being sat		SP/ SM							
20	Sand 5YR 4/6 yell red f-mgr w/ sm cgs gr. being very "soupy"		SM							
25	Sand m-v cgs gr soupy		SM							
30	Sdy clay 10YR 4/8 red TO 29'									Red rock at 28.5 ft
35										

**EXPLANATION**

▼ Water Table (24 Hour)

▽ Water Table (Time of Boring)

PID Photoionization Detection (ppm)

NO. Identifies Sample by Number

TYPE Sample Collection Method

SPLIT-BARREL

AUGER

ROCK CORE

THIN-WALLED TUBE

CONTINUOUS SAMPLER

NO RECOVERY

DEPTH. Depth Top and Bottom of Sample

REC. Actual Length of Recovered Sample in Feet

**GRAPHIC LOG LEGEND**

CLAY

DEBRIS FILL

SILT

HIGHLY ORGANIC (PEAT)

SAND

SANDY CLAY

GRAVEL

CLAYEY SAND

SILTY CLAY

CLAYEY SILT

DATE DRILLED  
3-2-04

PAGE  
1 of 1

DRILLING METHOD  
HSA

DRILLED BY  
AEI D. Jarman

LOGGED BY  
J. Crawford

EXISTING GRADE ELEVATION (FT AMSL)

LOCATION OR GRID COORDINATES



# SOIL BORING LOG KM-5655-A

KERR-McGEE CORPORATION Hydrology Dept. Engineering Services			KM SUBSIDIARY <i>Cincinnati</i>		LOCATION <i>BG 1</i>		BORING NUMBER <i>Tan W - 24</i>		
DEPTH IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER FOOT	PID (ppm)	SOIL SAMPLE			REMARKS OR FIELD OBSERVATIONS
						NO.	TYPE	REC.	
	SCTY CLAY BRN FIRM STIFF TO REDISH BRN		CL					3.5	
5	SAND REDISH TAN VFG SLT SLTY LOOSE MOIST		SM						
10	SAND BUFF MD GR CLEAN MOIST		SM					0	
15	SAND TAN F-CRS S LOOSE UNCONSOL		SM					2	FLOWING SANDS POOR SAMPLE REC. THRU OUT
20								1.8	
25								0	
28	RED CLAY WY CRS SAND FR GRAVEL NOTED ON AUGERS		CL						
30									
Total Depth 28'									

  

EXPLANATION	Water Table (24 Hour)			Water Table (Time of Boring)		Photoionization Detection (ppm)		Identifies Sample by Number		Sample Collection Method	
	SPLIT-BARREL		AUGER		ROCK CORE		THIN-WALLED TUBE		CONTINUOUS SAMPLER		NO RECOVERY
<b>DEPTH:</b> Depth Top and Bottom of Sample <b>REC:</b> Actual Length of Recovered Sample in Feet											

  

GRAPHIC LOG LEGEND		DATE DRILLED	PAGE
	CLAY	5/15/00	1 of 1
	SILT		
	SAND		
	GRAVEL		
	SILTY CLAY		
	CLAYEY SILT		
	DEBRIS FILL		
	HIGHLY ORGANIC (PEAT)		
	SANDY CLAY		
	CLAYEY SAND		

  

DRILLING METHOD	HSA
DRILLED BY	HORIZON
LOGGED BY	J. CRAWFORD
EXISTING GRADE ELEVATION (FT. AMSL)	
LOCATION OR GRID COORDINATES	