

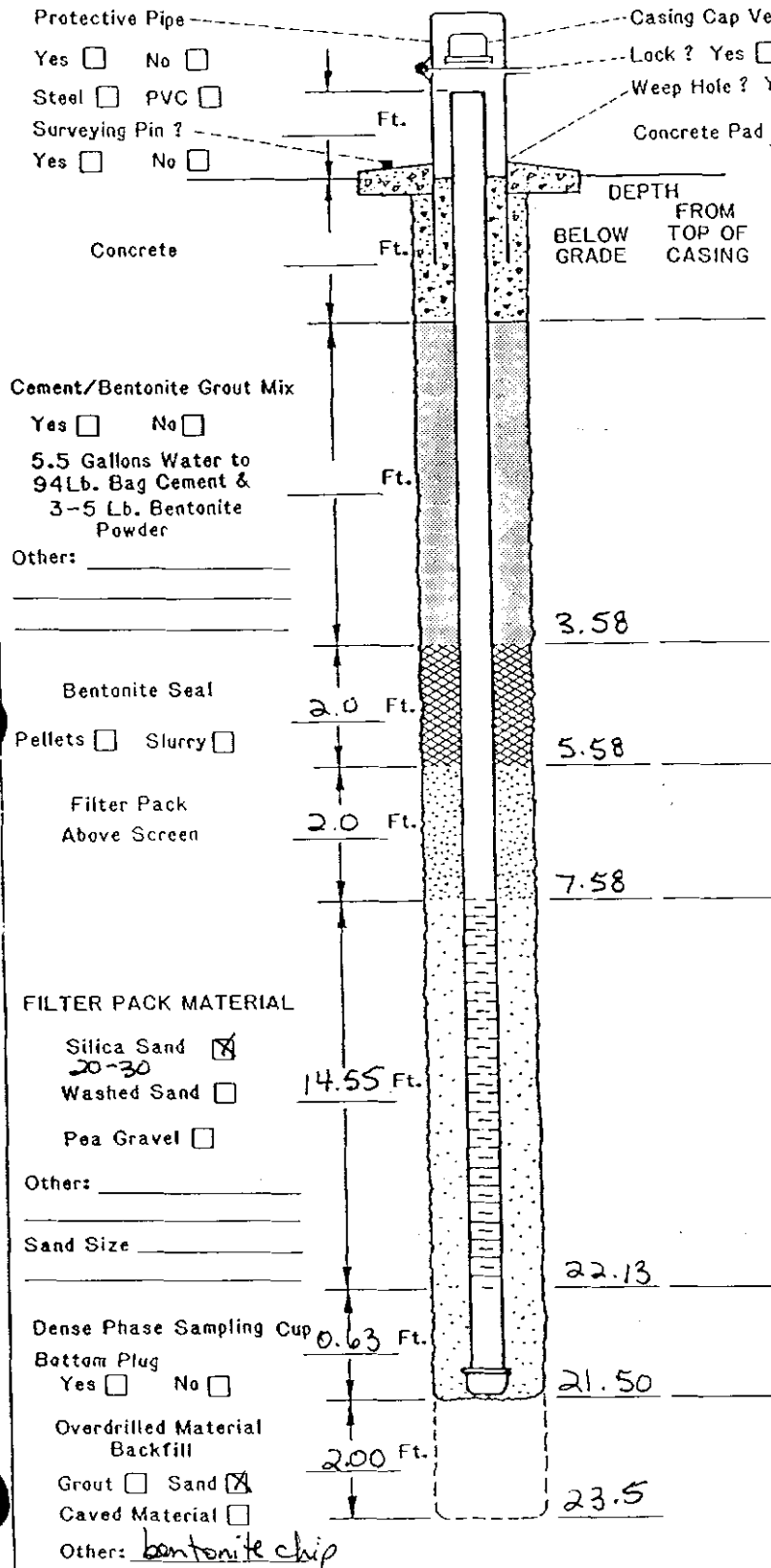
SOIL BORING LOG KM-5655-B

mw-9

KERR-MCGEE CORPORATION Hydrology Dept. - S&EA Division		KM SUBSIDIARY Cimarron Corp.		LOCATION Burial Area #1		BORING NUMBER 900N-1235E			
DEPTH IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6"	PID (ppm)	SOIL SAMPLE			REMARKS OR FIELD OBSERVATIONS
						NO.	TYPE	DEPTH	
1030	brn sdy silt bcong 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 slit soft sli dilat. becoming clayey		SC					10	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	
20	13-15 rd clay sdy lams plastic 18.3-18.5 silty gravel rd yell		ML						4.8
20	rd brn silty clay wet blk soft silty shale red rd sdy shale							20	
								23.5	3.5
1100	TD 23.5								chips 22-23.5

EXPLANATION	Water Table (24 Hour)	GRAPHIC LOG LEGEND		DATE DRILLED	PAGE
	Water Table (Time of Boring)	CLAY	DEBRIS FILL	8-30-99	1 of 1
	PID Photoionization Detection (ppm)	SILT	HIGHLY ORGANIC (PEAT)	DRILLING METHOD	
	NO. Identifies Sample by Number	SAND	SANDY CLAY	DRILLED BY	
TYPE Sample Collection Method	GRAVEL	CLAYEY SAND	LOGGED BY		
SPLIT-BARREL	AUGER	SILTY CLAY	J Crawford		
THIN-WALLED TUBE	CONTINUOUS SAMPLER	shale	EXISTING GRADE ELEVATION (FT. AMSL)		
ROCK CORE	NO RECOVERY		LOCATION OR GRID COORDINATES		
DEPTH Depth Top and Bottom of Sample			900N-1235E		
REC. Actual Length of Recovered Sample in Feet					

**KERR-McGEE CORPORATION
HYDROLOGY DEPARTMENT
MONITORING WELL INSTALLATION DIAGRAM**



- DRILLING INFORMATION:**
- Borehole Diameter = 5" Inches.
 - Were Drilling Additives Used? Yes No
 Revert Bentonite Water
 Solid Auger Hollow Stem Auger
 - Was Outer Steel Casing Used? Yes No
 Depth = _____ to _____ Feet.
 - Borehole Diameter for Outer Casing N/A Inches.
- WELL CONSTRUCTION INFORMATION:**
- Type of Casing: PVC Galvanized Teflon
 Stainless Other _____
 - Type of Casing Joints: Screw-Couple Glue-Couple Other _____
 - Type of Well Screen: PVC Galvanized
 Stainless Teflon Other _____
 - Diameter of Casing and Well Screens:
 Casing 2" Inches, Screen 2" Inches.
 - Slot Size of Screen: 20
 - Type of Screen Perforation: Factory Slotted
 Hacksaw Drilled Other _____
 - Installed Protector Pipe w/Lock: Yes No
- WELL DEVELOPMENT INFORMATION:**
- How was Well Developed? Bailing Pumping
 Air Surging (Air or Nitrogen) Other _____
 - Time Spent on Well Development?
3hr Minutes/Hours
 - Approximate Water Volume Removed? 150 Gallons
 - Water Clarity Before Development? Clear
 Turbid Opaque
 - Water Clarity After Development? Clear
 Turbid Opaque
 - Did Water have Odor? Yes No
 If Yes, Describe _____
 - Did Water have any Color? Yes No
 If Yes, Describe _____
- WATER LEVEL INFORMATION:**
 Water Level Summary (From Top of Casing)
- During Drilling _____ Ft. Date _____
 Before Development _____ Ft. Date _____
 After Development _____ Ft. Date _____

Driller/Firm Horizon Drill Rig Type BK 81 Date Installed 8/30/99
 Drill Crew Richard Rehmer Well No. MW 9 Kerr-McGee Hydrologist J. Crawford