

SOIL BORING LOG KM-5655-B

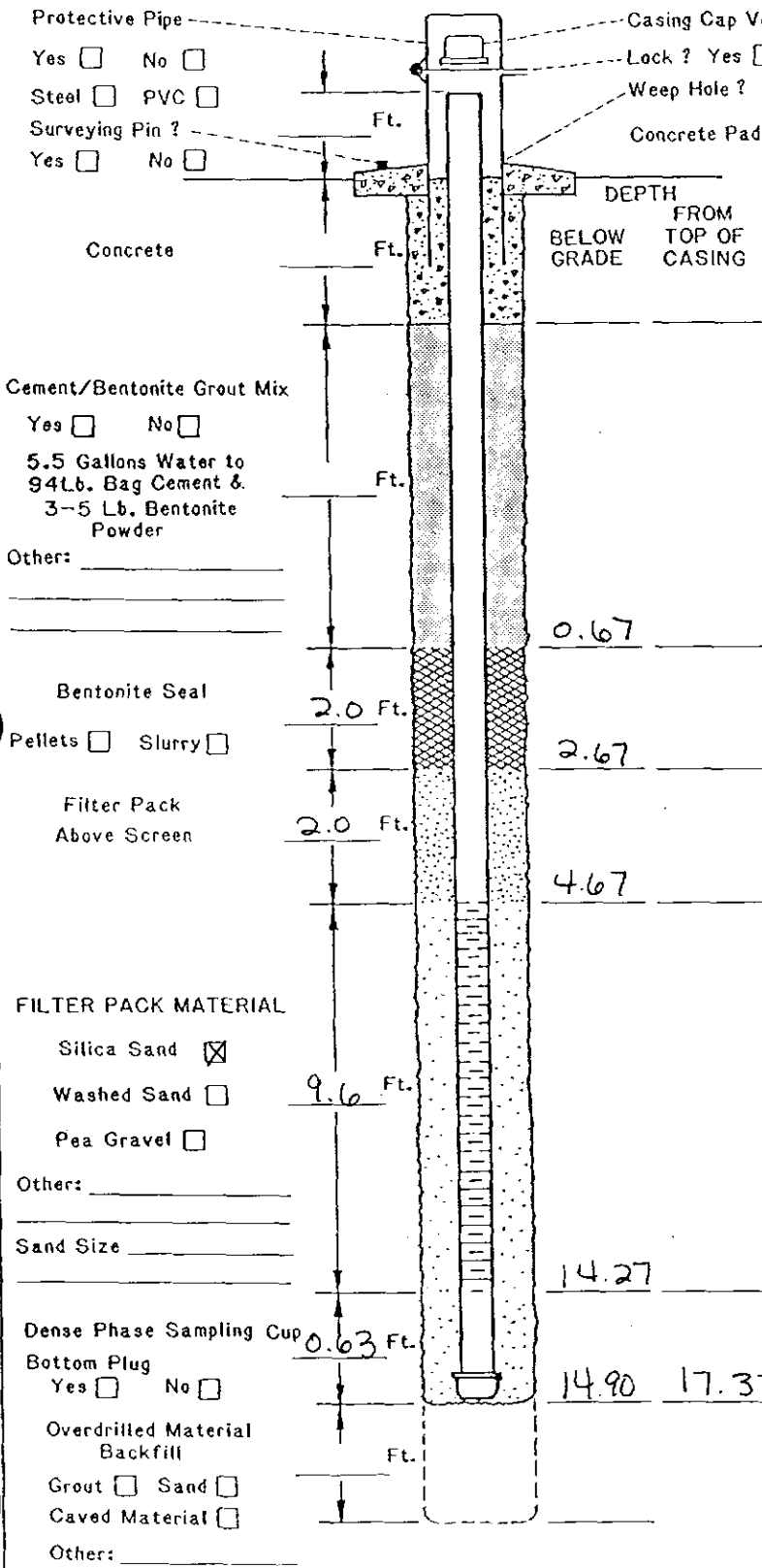
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KERR-MCGEE CORPORATION Hydrology Dept. - S&EA Division	KM SUBSIDIARY Cimarron Corp.	LOCATION Burial Area #1	BORING NUMBER 900N-1240E
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DEPTH IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6"	PID (ppm)	SOIL SAMPLE			REMARKS OR FIELD OBSERVATIONS
						NO.	TYPE	DEPTH	
5	sdy silt brn-rd brn hd, dry bcmg soft sli moist sdy w/increasing depth		Sm					4.1	
5	rd brn silty sand w/tr. clay silty clay rd brn stiff non-plastic 8.5' wet sdy silt vfg loose dilat.		Sm					4.8	
10	rd brn wet clayey silt to sd clay incl. to 12' med plastic Silty clay Aab sm silty wet lens Light brn-gy brn silty clay stiff, plastic		Sm					4.9	
15	TD 15' set well		ML						

EXPLANATION		Water Table (24 Hour)	GRAPHIC LOG LEGEND	DATE DRILLED	PAGE	
		Water Table (Time of Boring)			8-25-99	1 of 1
		Photoionization Detection (ppm)			DRILLING METHOD	
		Identifies Sample by Number Sample Collection Method			HSA	DRILLED BY
		SPLIT-BARREL			Horizon	LOGGED BY
	AUGER		J Crawford	EXISTING GRADE ELEVATION (FT AMSL)		
	ROCK CORE			LOCATION OR GRID COORDINATES		
	THIN-WALLED TUBE			900N-1240E		
	CONTINUOUS SAMPLER					
	NO RECOVERY					
DEPTH	Depth Top and Bottom of Sample					
REC.	Actual Length of Recovered Sample in Feet					

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



Protective Pipe
 Yes No
 Steel PVC
 Surveying Pin?
 Yes No

Casing Cap Vent? Yes No
 Lock? Yes No
 Weep Hole? Yes No

Concrete Pad _____ Ft. x _____ Ft. x _____ Inches

DRILLING INFORMATION:

1. Borehole Diameter = 5" Inches.
2. Were Drilling Additives Used? Yes No
 Revert Bentonite Water
 Solid Auger Hollow Stem Auger
3. Was Outer Steel Casing Used? Yes No
 Depth = _____ to _____ Feet.
4. Borehole Diameter for Outer Casing N/A Inches.

WELL CONSTRUCTION INFORMATION:

1. Type of Casing: PVC Galvanized Teflon
 Stainless Other _____
2. Type of Casing Joints: Screw-Couple Glue-Couple Other _____
3. Type of Well Screen: PVC Galvanized
 Stainless Teflon Other _____
4. Diameter of Casing and Well Screen:
 Casing 2" Inches, Screen 2" Inches.
5. Slot Size of Screen: 20
6. Type of Screen Perforation: Factory Slotted
 Hacksaw Drilled Other _____
7. Installed Protector Pipe w/Lock: Yes No

WELL DEVELOPMENT INFORMATION:

1. How was Well Developed? Bailing Pumping
 Air Surging (Air or Nitrogen) Other _____
2. Time Spent on Well Development?
 _____ 3hr Minutes/Hours
3. Approximate Water Volume Removed? 150 Gallons
4. Water Clarity Before Development? Clear
 Turbid Opaque
5. Water Clarity After Development? Clear
 Turbid Opaque
6. Did Water have Odor? Yes No
 If Yes, Describe _____
7. 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 8/25/99
 Drill Crew Richard Reinerman Well No. MW3 Kerr-McGee Hydrologist J. Crawford