Cook Industrial Drilling Company
Phone (316) 316-8184
Box 1 Ellinwood, Kansas 67526

DRILLING TIME AND SAMPLE LOG

OPERATOR B. McCarroll
LEASE McCarroll No. 1
LOCATION Nw Nw Nw Sec. 11 TELOWISE Cat
COUNTY Ellis STATE Kansas
API No. 15-051-24,111

CONTRACTOR B. McCarroll Drilling Company
COMM. Dec. 6, 1977 COMP. Dec. 12, 1977
ROTARY TOOLS used
SUR. CSG. 8 5/8" @ 232 PROD. CSG. None

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DRILLING TIME RECORDED FROM 1650 TO 2410
SAMPLES SAVED FROM 1650 TO 2410
SAMPLES EXAMINED FROM 1650 TO 2410
GEOLOGICAL SUPERVISION FROM 1650 TO 2410
ELECTRIC LOG SURVEY Welex Gamma Ray Neutron Induction Sonic 2000-2406 Log 2-2
Induction 1650-2400

ELEVATION GR 1632 KB 1634 DF
FORMATION TOPS from KB
Schloss (Cairo) Bed 690 + 944
SAMPLES ELECTRIC LOG 690 + 944

FORMATION TOPS	SAMPLES	ELECTRIC LOG
Grand Haven (KC)	2201	-567
Dover	2234	-600
Topeka LS	2276	-642
Elmont	2330	-696
Howard	2503	-869
Severy	2528	-894
Topeka	2546	-912
King Hill	2684	-1050
Queen Hill	2726	-1092
Heebner	2768	-1134
Toronto	2790	-1156
Lansing	2800	-1166
Eudora	2882	-1248
Quindaro	2900	-1266
Total Depth	2910	-1276

* Drilling Time

SCALE: 1" = 100'

DRILLING TIME - In Minutes Per Foot / Rate of Penetration Decreases (5 10 15 20 25)	DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
			Daily Progress 8:00 A.M.		
			12/6 surface hole set surface		
			12/7 TD 397 WOC		
			12/8 Drlg 1041		
			12/9 Drlg 1679		
			12/10 Drlg 1912		
			12/11 Drlg 2282		
			12/12 Drlg 2328		
			12/13 Drlg 2355		
			12/14 Drlg 2379		
			12/15 TD 2410 P&A		
2200 GH	2200 Grand Haven		2201 (-567)		
10			S.S. fn gr. soft no odor fn fa. no stain		
20					
30 Dover			2234 (-600)		
40	40		S.S. v fn. gr. tite.		
50					
60	60				
70 TopK LS			2276 (-642)		
80	80				
90					
2300	2300				
10					
20	20				
30 Elm			2330 (-696)		
40	40				
50					
60	60				
70					
80	80				
90					
2400	2400				
10					
20	20				
30					
40	40				
50					
60	60				
70					
80	80				
90					
2500 How	2500 Howard		2503 (-869)		
10					
20	20				
30 Sev			2528 (-894)		
40 Tep	40 Topeka		2546 (-912)		
50					
60	60				
70					
80	80				
90					
2600	2600				
10					
20	20				
30					
40	40				
50					
60	60				
70					
80	80				
90					
2700	2700 King Hill				
10					
20	20				
30					
40	40				
50					
60	60				
70					
80	80				
90					
2800	2800 Queen Hill				
10					
20	20				
30					
40	40				
50					
60	60				
70					
80	80				
90					
2900 Heb	2900 Heebner		2768 (-1134)		
10					
20	20				
30					
40	40				
50					
60	60				
70 Tor			2790 (-1156)		
80	80		LS. wh. chty		
90					
2800 Lan	2800 Lansing		2800 (-1166)		
10			LS. gy - tan fn xln		
20					
30					
40					
50					
60					
70					
80					
90					
2900					
10		