

DRILLING TIMESW NE NW
Sec. 36-33-6WHerndon Drilling Company
1 GerberdingElevation 1281 KB
Harper County, Kansas

DEPTH	MINUTES	REMARKS
1' Intervals		

2850	8-8-8-8-8/8-8-8-8-7	
60	7-9-8-9-9/9-8-8-8-8	
70	9-9-9-9-7/12-13-12-10-13	2875 Conn
80	15-4-4-4-3/3-3-2-2-3	2882 Trip
90	3-2-3-2-4/4-4-3-3-3	
2900	2-3-3-2-3/3-3-2-3-2	2905 Conn
10	2-2-2-3-2/2-2-2-2-2	
20	3-2-2-2-2/2-2-3-2-2	
30	2-2-3-3-3/3-3-3-3-4	2936 Conn
40	4-3-4-4-4/3-4-4-5-5	
50	4-4-5-4-3/2-3-3-3-3	
60	3-5-3-3-3/3-3-3-3-4	2966 Conn
70	4-4-4-3-4/3-3-3-3-3	
80	4-3-4-4-4/4-6-4-4-4	
90	4-4-4-4-4/3-3-3-3-4	2996 Conn
3000	4-3-3-5-4/4-4-4-7-5	
10	5-4-5-5-3/4-4-3-3-3	
20	2-2-4-4-4/4-3-3-3-2	3027 Conn
30	3-3-4-4-4/3-3-3-3-3	
40	4-4-4-4-3/4-3-3-3-4	
50	3-4-4-3-3/3-3-3-2-2	3058 Conn
60	3-3-3-4-4/4-4-5-4-3	
70	4-4-4-4-4/3-4-3-4-4	
80	4-3-5-4-4/4-5-5-5-5	3089 Conn
90	5-4-5-4-5/6-4-5-5-5	
3100	5-5-5-4-6/5-5-5-6-5	
10	4-3-2-3-2/2-4-4-6-7	3119 Conn
20	5-5-3-4-6/7-4-4-3-3	
30	3-8-7-7-5/5-5-6-8-8	
40	6-6-7-5-6/6-8-6-5-5	3148 Conn
50	6-6-5-6-5/6-6-6-5-4	
60	4-4-4-4-5/5-5-5-4-4	
70	4-5-4-4-4/4-4-4-4-4	
80	5-6-6-7-7/9-9-3-3-3	3180 Conn, 3188 Trip
90	3-3-2-3-2/3-3-2-3-3	

DRILLING TIME

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DEPTH	MINUTES	REMARKS
1' Intervals *****		
3200	3-3-3-4-4/5-5-5-5-4	3210 Conn
10	4-4-3-3-2/2-2-2-2-2	
20	2-2-2-2-2/3-3-2-3-3	
30	3-3-3-3-3/2-2-3-3-3	
40	3-3-3-3-4/4-4-4-5-3	3241 Conn
50	4-4-5-4-4/3-4-3-4-4	
60	4-3-4-3-3/4-3-4-4-4	
70	4-3-3-3-3/4-3-3-4-3	3278 Conn
80	4-4-4-4-4/4-5-4-4-5	
90	4-4-4-3-3/3-3-3-4-5	
3300	4-4-4-3-4/4-4-4-4-4	
10	3-3-4-4-4/4-4-4-6-5	
20	3-3-4-4-4/5-5-5-5-7	
30	6-6-5-4-5/4-5-4-4-4	3332 Conn
40	5-6-7-5-5/7-8-7-5-5	
50	6-4-6-6-6/6-8-9-9-7	
60	6-5-6-6-6/6-8-6-8-9	
70	9-8-8-7-8/10-8-7-8-8	
80	10-10-3-4-3/4-3-3-4-4	3383 Trip
90	4-4-4-4-5/5-5-4-5-5	
3400	5-5-5-4-3/3-3-3-3-3	
10	3-3-3-4-3/3-4-3-3-3	
20	3-3-3-4-3/3-3-3-3-3	3422 Conn
30	3-2-2-2-2/3-2-2-3-3	
40	2-2-2-2-2/3-2-3-3-3	
50	2-3-3-3-3/3-2-2-2-2	3452 Conn
60	3-2-2-1-1/2-2-1-2-2	
70	1-2-2-3-3/3-4-4-3-3	
80	3-3-2-3-3/3-2-2-2-2	3483 Conn
90	2-2-2-2-1/2-1-1-1-1	
3500	2-1-2-2-2/1-1-1-1-1	
10	1-1-2-2-1/2-2-2-1-1	3513 Conn
20	2-1-1-1-1/1-1-1-1-1	
30	1-1-2-1-2/2-2-1-1-1	
40	1-1-2-1-1/2-1-1-1-2	3543 Conn

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DEPTH	MINUTES	REMARKS
1' Intervals *****		
3550	2-2-2-2-1/2-2-2-1-2	
60	2-2-1-1-1/1-2-2-2-2	
70	1-1-2-1-1/2-2-2-2-2	3573 Conn
80	3-3-4-4-3/3-4-3-6-5	
90	4-4-5-4-4/3-4-5-4-4	
3600	5-5-5-5-5/5-6-5-6-5	3604 Conn
10	7-8-9-9-7/8-7-8-8-7	
20	8-6-8-7-8/8-5-5-5-7	3626 Trip
30	10-6-6-5-10/3-5-6-6-6	
40	6-6-7-5-7/7-6-6-6-7	
50	6-5-6-6-6/6-6-7-8-6	
60	5-4-3-4-5/5-5-5-5-5	3666 Conn
70	5-6-5-5-6/5-5-5-5-5	
80	5-5-5-5-5/5-5-5-4-4	
90	4-4-4-4-5/4-4-4-4-4	
3700	5-4-4-4-4/3-3-3-4-4	
10	3-4-3-3-4/3-3-4-3-3	
20	3-4-4-3-4/4-3-3-3-4	3726 Conn
30	4-4-3-4-4/5-5-4-4-4	
40	4-4-3-3-3/3-3-3-4-3	
50	3-3-3-3-3/3-3-4-4-4	3757 Conn
60	4-4-3-4-4/3-4-3-3-3	
70	2-2-2-3-3/4-4-4-5-5	
80	5-5-5-5-5/5-4-4-3-4	3787 Conn
90	3-4-3-3-4/4-3-4-4-4	
3800	3-4-4-6-5/5-5-5-6-5	
10	6-5-6-5-6/6-9-9-9-8	3817 Conn
20	10-5-5-5-6/6-5-5-4-5	
30	4-3-3-3-5/3-3-6-6-5	
40	5-3-4-5-5/6-6-5-7-9	3848 Conn
50	8-8-9-8-5/5-4-4-4-4	
60	7-9-9-10-5/5-5-5-5-5	
70	5-5-5-5-5/5-7-8-6-5	3879 Conn
80	8-9-10-10-12/6-7-8-8-8	3886 Trip
90	8-9-8-7-5/7-7-9-12-10	

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DEPTH	MINUTES	REMARKS
1' Intervals *****		
3900	10-9-8-9-10/9-8-6-8-12	3909 Conn
10	11-8-8-8-9/10-10-8-8-7	
20	8-9-8-7-8/9-7-6-6-7	
30	8-7-8-7-8/8-8-8-8-7	
40	8-7-5-5-5/5-4-4-5-5	3940 Conn
50	4-5-5-5-5/5-4-5-5-6	
60	6-6-6-6-9/8-10-10-10-8	3970 Conn
78	8-9-9-9-10/7-8-8-8-9	
80	7-7-7-8-10/10-10-10-5-5	
90	4-8-12-12-10/12-8-10-14-6	4000 Trip
4000	8-8-10-12-9/7-11-7-7-10	
10	7-10-9-9-6/7-9-10-7-9	
20	9-9-7-7-7/6-6-6-7-7	
30	6-7-4-5-6/6-8-6-5-7	
40	6-7-5-5-8/8-8-7-7-7	
50	8-6-8-8-8/7-7-8-5-7	
60	6-7-8-6-9/7-9-9-8-8	4062 Conn
70	8-8-8-7-7/7-7-8-7-7	
80	7-7-8-7-6/6-5-5-7-9	
90	7-8-7-6-6/6-6-6-5-6	
4100	6-8-7-8-7/8-7-7-8-8	
10	7-7-5-5-5/5-5-5-6-5	
20	5-6-6-8-7/7-8-8-8-7	4122 Conn
30	8-10-9-8-8/8-10-10-10-6	
40	9-9-10-10-10/10-12-6-6-5	4148 Trip
50	5-4-5-4-5/5-7-4-5-5	4152 Conn
60	5-6-6-5-5/6-5-4-5-5	
70	5-6-6-5-5/4-5-4-4-5	
80	5-5-4-4-5/4-4-4-4-5	4183 Conn
90	5-4-5-5-5/4-5-5-5-5	
4200	6-5-5-5-6/7-7-5-6-6	
10	6-6-5-4-5/7-7-7-8-10	4213 Conn
20	11-8-7-8-9/8-5-7-7-7	
30	7-7-4-3-3/4-6-7-7-6	
40	9-11-9-7-9/7-8-6-4-4	4244 Conn

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1' Intervals *****		
4250	8-9-9-6-7/12-11-10-9-7	
60	8-7-9-9-9/9-8-6-7-10	
70	11-9-9-10-11/10-9-9-10-10	4274 Conn
80	9-8-11-11-13/5-6-6-6-6	4286 Trip
90	6-7-7-5-4/4-4-5-5-6	
4300	6-7-6-6-5/6-5-5-6-7	4304 Conn
10	7-5-4-4-4/5-6-5-5-6	
20	6-7-8-11-8/7-6-9-10-7	
30	8-7-7-6-6/5-6-5-5-5	4335 Conn
40	3-4-4-5-8/6-6-6-8-10	
50	8-9-10-10-8/8-7-8-8-7	
60	9-7-7-7-5/6-7-5-7-10	
70	12-8-7-7-8/8-10-8-10-8	
80	6-5-5-5-9/6-6-7-7-5	
90	5-4-5-6-7/11-10-7-4-7	4396 Conn
4400	7-8-8-8-8/8-8-8-8-8	
10	8-8-8-8-7/7-6-6-6-6	
20	6-6-7-6-6/9-9-10-8-10	
30	8-9-9-9-10/12-12-4-6-7	4438 Trip
40	5-5-5-5-5/4-3-3-3-3	
50	5-7-7-3-4/4-6-6-6-6	4457 Conn
60	6-4-10-4-2/5-3-2-2-3	
70	3-2-3-2-2/2-2-2-2-2	4480 Circ for Samples
80	2-2-1-1-2/1-1-1-2-1	4463-80 DST # 1, 4480-90 DST # 2
90	5-4-5-5-4/5-5-4-8-14	4490 Circ
4500	8-12-13-9-10/14-20-20-15-19	
10	12-12-12-13-12/15-15-18-20-20	
20	14-13-11-14-12/12-11-18-18-15	
30	16-19-26-26-26/28-21-22-19-22	
40	28-31-22-18-25/29-10-9-9-9	4547 Con
50	10-10-11-12-12/13-15-12-12-13	
60	13-14-14-13-14/13-11-12-13-14	
70	14-14-14-20-14/15-12-15-17-18	4578 Conn
80	16-15-25-23-19/15-24-19-20-16	
90	16-22-17-22-13/21-18-17-18-18	4595 Trip

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DEPTH	MINUTES	REMARKS
1' Intervals *****		
4600	20-17-15-20-17/17-19-16-19-19	4608 Conn
10	17-17-17-15-15/16-14-12-13-15	
20	16-14-15-15-16/16-14-14-16-14	
30	17-14-14-16-17/15-15-15-14-16	4638 Conn
40	15-15-15-15-19/19-15-14-16-15	
50	17-15-12-10-14/10-9-8-6-6	
60	9-16-10-9-9/8-8-8-8-8	4669 Conn
70	12-12-12-11-11/8-10-8-9-12	
80	10-8-6-10-10/9-17-15-12-10	
90	10-10-13-12-13/10-13-11-11-15	4699 Conn
4700	6-5-6-8-6/6-8-6-5-7	4700 Trip
10	8-10-7-8-5/10-14-10-11-11	
20	10-12-10-10-10/10-9-9-9-8	4730 Conn
30	9-9-10-10-10/10-11-11-10-9	
40	9-10-10-10-9/12-10-8-10-10	
50	10-11-10-8-12/10-11-9-9-9	4760 Conn
60	10-11-8-10-10/11-9-8-11-11	
70	14-11-13-16-13/13-12-16-14-11	
80	10-12-17-17-5/7-8-8-9-8	
90	7-9-7-8-10/8-9-8-7-10	4791 Conn
4800	10-10-13-11-11/13-11-9-12-9	
10	10-10-11-11-12/12-14-18-19-18	
20	13-19-17-14-14/18-20-20-20-17	4821 Conn
30	14-12-12-14-13/14-14-16/13-12	
40	16-14-14-14-11/12-13-14-13-12	
50	12-12-12-13-15/14-14-16-14-10	4852 Conn
60	13-15-14-13-16/17-16-14-14-19	
70	18-16-16-19-15/17-12-8-7-7	4877 Trip, 4880 CFS
80	7-6-7-6-7/76-7-5-7	4882 Conn
90	7-7-6-6-6/8-7-5-9-13/	
4900	9-12-12-10-8/9-8-10-9-8	13-10-11-14-14/
10	13-10-11-14-14/8-11-13-15-11	4912 Conn
20	5-5-5-5-6/12-15-20-15-19	4924 CFS
30	16-13-28-30-32/	4935 Circ