

DRILLING TIME RECORD

Badger Drillers, Inc.  
 No. 1 Schraeder  
 C NW NW Sec. 25, T. 1 S., R. 38 W.  
 Cheyenne County, Kansas

Elevation: 3267 K.B.  
 3264 D.F.

Rotary Total Depth: 5130

Commenced:  
 Completed Drilling with Rotary:

May 18, 1959  
 June 3, 1959

Casing: 8-5/8" @ 340

Contractor: Badger Drillers, Inc.  
 Box 287  
 Tulsa, Oklahoma

BIT RECORD AND DAILY DRILLING PROGRESS:

No.	Bit	Type	Retip	Depth	Date	Time	Remarks	Depth
1	Reed	YT-3	Retip	340-2200	May 18		Set 8-5/8" @	340
2	HFC	OSC	Retip	2200-2600	19			WOC
3	HFC	OSC	Retip	2600-2915	20		Under Surface	
4	Smith	SV2	Retip	2915-3215	21	7:30 a.m.	drilling @	2380
5	HFC	OSC	Rerun	3215-3428	22	7:30 a.m.	drilling @	2915
6	Security	S6	Rerun	3428-3436	23	7:30 a.m.	drilling @	3355
7	Security	M4N	Rerun	3435-3525	24	7:30 a.m.	drilling @	3525
8	Security	M4N	Rerun	3525-3690	25	7:30 a.m.	drilling @	3760
9	GP	EMIV	Rerun	3690-3807	26	7:30 a.m.	drilling @	3935
10	Security	M4N		3807-4035	27	7:30 a.m.	drilling @	4135
11	HFC	OWV		4035-4255	28	7:30 a.m.	drilling @	4300
12	HFC	OWV		4255-4460	29	7:30 a.m.	drilling @	4362
13	Security	M4N		4460-4751	30	7:30 a.m.	drilling @	4525
14	Security	M4N		4751-4903	31	7:30 a.m.	drilling @	4675
15	HFC	W7		4903-4994	June 1	7:30 a.m.	drilling @	4850
16	Security	H7		4994-5083	2	7:30 a.m.	drilling @	4982
17	Security	M4N	Rerun	5083-5130	3	7:30 a.m.	drilling @	5070
					3	RTD @ 9:29 p.m.	@	5130

<u>DEPTH</u>	<u>DRILLING TIME</u>
<b>5 Feet Time</b>	
3000-3050	4-7-8-6-5-4-8-8-4-2
3050-3100	2-2-2-4-5-6-5-5-5-4
3100-3150	5-8-10-9-10-12-14-14-12-10
3150-3200	11-12-18-7-18-11-20-20-20-18
3200-3250	22-23-27-20-19-20-24-21-20-27 Trip @ 3220
3250-3300	27-15-16-28-19-19-23-19-18-13
3300-3350	17-12-16-17-10-10-10-21-30-20
3350-3400	15-23-28-22-22-10-10-14-10-11
3400-3450	14-28-36-40-40-50-65-45-25-20 Trip @ 3435
3450-3500	31-23-29-24-23-30-30-29-28-23
3500-3550	29-28-25-28-34-15-15-17-20-24 Trip @ 3530
3550-3600	18-16-20-20-23-27-20-22-23-18
3600-3650	20-36-31-35-29-22-23-24-25-24
3650-3700	33-21-20-20-16-27-36-13-15-23 Trip @ 3695
3700-3750	20-20-25-17-15-16-11-18-24-32
3750-3800	36-48-40-45-50-35-40-30-30-50
3800-3850	50-28-45-37-34-34-13-29-45-60
3850-3900	30-39-20-31-29-30-27-30-25-30

<u>DEPTH</u>	<u>DRILLING TIME</u>
<b>1 Feet Time</b>	
3900-3910	4-5-6-6-6 6-5-5-8-5
20	5-4-5-5-8 7-6-5-5-4
30	7-9-10-7-5 6-6-6-6-7
40	6-6-6-7-7 7-7-8-7-7
50	7-7-10-10-8 8-7-8-8-7
60	7-7-6-7-6 6-6-5-6-6
70	6-7-7-7-7 6-6-6-6-6
80	6-5-5-6-9 6-5-5-5-4
90	7-8-7-7-7 9-9-7-8-10
3990-4000	10-8-8-8-9 10-10-10-9-9

<u>DEPTH</u>	<u>DRILLING TIME</u>
4000-4010	10-10-10-8-8 7-6-7-7-7
20	6-7-8-5-7 6-12-8-7-10
30	1-10-7-9-10 7-7-7-7-8
40	10-8-9-9-25 4-3-4-4-4 Trip @ 4035
50	5-3-5-5-2 3-3-3-4-4
60	5-4-3-3-4 4-4-2-4-4
70	3-4-5-4-5 4-5-4-2-3
80	3-3-3-2-3 4-4-3-4-5
90	4-4-5-4-2 4-3-3-2-3
4090-4100	4-3-3-5-4 3-3-4-3-2
10	4-4-2-5-3 3-5-4-5-4
20	5-3-4-4-4 5-4-5-3-4
30	4-4-4-4-5 5-5-4-5-4
40	4-4-4-3-5 5-4-5-4-5
50	5-5-5-4-5 5-4-5-5-5
60	4-4-3-2-3 4-4-5-5-6
70	5-4-3-4-5 5-5-5-6-5
80	5-5-6-5-3 4-4-5-4-4
90	5-6-4-4-4 4-5-5-5-5
4190-4200	5-5-5-4-5 5-6-5-5-5
10	4-4-3-4-4 5-5-5-5-4
20	5-4-5-5-4 5-5-5-5-5
30	5-7-7-4-4 9-4-4-4-3
40	4-6-6-5-5 6-5-5-6-5
50	6-5-6-5-6 5-8-6-7-5
60	4-5-4-7-6 4-3-4-3-3 Circ. @ 4255
70	4-3-4-2-6 4-3-5-5-4
80	4-5-5-5-5 4-5-4-3-2
90	4-3-3-2-2 3-4-3-4-5
4290-4300	5-3-4-3-3 4-5-5-3-3 Circ. @ 4300
10	3-2-2-3-2 4-6-4-5-4
20	5-5-6-9-7 7-9-4-5-5
30	7-7-6-7-5 6-7-5-6-6
40	7-6-5-6-5 7-6-5-7-6
50	8-7-5-6-5 5-5-5-5-4
60	5-6-7-8-7 7-7-5-7-9 Circ. @ 4360
70	6-7-8-9-10 5-5-4-5-5
80	6-5-5-6-5 5-5-6-6-7
90	5-5-8-5-5 6-6-5-4-5
4390-4400	6-6-5-6-5 5-6-5-6-5
10	5-5-5-4-5 4-4-4-4-3
20	3-4-6-5-4 5-4-4-5-5
30	6-5-6-7-6 5-6-6-5-5
40	6-5-6-7-6 7-7-6-7-5
50	6-9-8-8-8 8-8-8-8-9
60	11-10-9-9-6 5-5-4-5-6 Circ. @ 4459
70	3-3-3-4-4 3-3-3-3-3 Trip @ 4461
80	3-4-4-4-4 4-5-5-5-5
90	5-4-4-7-8 7-5-7-6-6
4490-4500	7-5-6-7-6 4-5-7-5-4

DEPTHDRILLING TIME

4600-4610 6-4-5-5-4 4-4-6-8-6  
 20 5-5-5-6-6 6-3-4-4-5  
 30 6-4-4-4-4 4-4-4-5-5  
 40 6-7-9-9-8 9-7-6-4-3  
 50 5-4-5-4-4 4-5-5-5-5  
 60 4-4-3-4-3 4-4-4-4-4  
 70 5-4-4-4-3 4-4-5-4-5  
 80 5-4-4-4-4 3-4-4-4-6  
 90 4-5-5-5-4 3-3-4-4-3  
 4690-4700 4-4-5-5-4 3-3-3-3-4  
 10 4-8-8-8-6 6-6-6-6-5  
 20 5-5-4-4-4 5-5-5-4-4  
 30 4-5-4-4-5 4-4-3-3-6  
 40 5-4-5-5-6 7-8-10-8-10  
 Circ. @ 4840  
 50 5-6-10-9-9 9-9-9-8-6  
 60 6-7-7-8-8 7-7-4-4-2  
 70 7-6-4-6-5 5-4-5-4-9  
 80 7-8-6-6-8 8-8-8-10-7  
 90 7-8-5-5-6 5-6-6-5-10  
 4690-4700 9-10-5-4-5 6-7-8-5-6  
 10 6-5-6-7-9 5-4-4-6-9  
 20 8-7-6-6-8 9-7-7-8-9  
 30 7-7-10-5-4 6-5-5-5-5  
 40 5-6-7-11-13 6-4-4-6-6  
 50 7-9-9-10-8 8-10-12-6-9  
 60 15-3-8-7-10 5-3-6-6-2  
 Trip @ 4751  
 70 2-2-1-2-2 1-1-3-7-9  
 80 5-6-8-5-8 9-5-4-3-5  
 90 6-6-6-7-6 6-6-4-4-8  
 4780-4800 9-8-7-8-6 6-8-12-4-4  
 10 4-6-8-9-12 12-9-8-11-11  
 20 15-12-13-9-8 5-6-7-6-7  
 30 6-4-5-3-4 6-7-7-9-7  
 40 6-7-6-7-8 10-8-7-6-8  
 50 6-6-6-7-8 8-9-12-12-14  
 60 17-11-9-7-7 8-10-9-7-6  
 70 7-8-8-8-8 14-13-12-11-10  
 80 9-9-10-12-14 10-11-10-10-19  
 90 18-18-15-10-8 7-8-10-13-13  
 4890-4900 11-8-14-3-2 4-6-14-16-19

DEPTHDRILLING TIME

4900-4910 19-25-20-13-8 4-4-2-5-4  
 Trip @ 4904  
 20 5-6-5-7-5 8-4-6-3-2  
 30 5-6-8-6-6 4-7-6-5-6  
 40 6-6-6-6-7 5-4-7-9-8  
 50 6-5-5-7-8 7-6-9-6-5  
 60 5-5-10-11-15 13-17-8-6-4  
 70 8-8-6-11-10 10-12-12-16-12  
 80 27-18-9-5-5 4-5-4-4-5  
 90 9-8-99-8 26-27-23-27-28  
 4990-5000 26-21-10-20-5 3-2-2-2-2  
 Trip @ 4994  
 10 4-7-7-6-9 11-9-12-14-15  
 20 10-12-11-16-21 23-15-15-9-14  
 30 18-14-23-17-19 12-17-15-13-13  
 40 10-10-8-9-8 11-13-13-12-15  
 50 14-10-18-13-13 20-20-17-7-13  
 60 12-16-13-13-13 8-12-14-20-13  
 70 14-13-13-13-16 16-18-17-13-15  
 80 21-23-15-17-13 13-14-18-15-17  
 90 20-23-25-10-10 9-12-11-11-7  
 Trip @ 5083  
 5090-5100 9-12-11-15-8 8-9-10-8-8  
 10 12-8-6-6-13 9-12-15-10-9  
 20 8-5-7-9-9 8-9-8-10-7  
 30 9-8-8-9-6 11-8-10-13-15  
 RTD @ 5130