

DRILLING TIME LOG
#1 STUECKEMANN
C NE SE Sec. 14-23S-19W
Edwards County, Kansas

Depth	Minutes	Remarks
<u>1' Intervals</u>		
2200-2210	1-1-1-1-2/1-2-1-1-1	
20	1-2-1-1-1/2-1-1-1-2	
30	2-1-1-3-2/1-1-4-3-2	
40	2-2-1-2-3/1-1-3-2-2	
50	2-2-4-3-3/2-1-4-1-2	
60	4-2-2-1-3/3-1-1-4-2	
70	1-1-2-3-2/2-1-1-1-2	
80	1-3-3-2-2/3-2-4-3-3	
90	4-2-2-3-3/3-3-2-3-3	
2300	3-2-3-3-4/2-2-3-3-2	
2300-2310	2-2-4-3-3/4-2-2-3-4	
20	2-2-3-2-4/5-4-3-3-4	
30	5-3-3-5-4/2-3-3-3-3	
40	2-3-2-2-3/4-5-4-5-6	
50	5-5-6-5-6/5-4-5-5-1	Trip at 2399
60	1-1-1-1-1/1-1-2-2-2	
70	3-1-1-1-1/2-2-1-1-2	
80	1-2-1-2-2/2-2-2-1-2	
90	2-1-2-2-2/2-1-2-2-2	
2400	2-2-1-3-2/3-3-3-3-3	
2400-2410	2-2-1-2-1/2-1-2-2-2	
20	2-3-3-2-3/2-2-2-2-1	
30	1-2-2-1-2/2-1-2-2-2	
40	2-2-1-1-1/1-3-2-2-2	
50	2-2-2-1-1/2-1-1-1-3	
60	4-3-3-3-2/3-3-3-3-3	
70	3-3-2-2-2/2-2-4-3-3	
80	4-5-2-2-2/2-2-2-2-2	
90	2-2-3-3-2/3-2-3-2-2	
2500	2-3-2-2-2/2-2-3-5-3	
2500-2510	3-2-4-5-5/0-2-4-4-5	Rough at 2504, 2510'
20	4-5-3-2-3/2-4-3-5-6	
30	6-5-6-6-6/5-5-5-6-7	
40	6-4-5-6-5/6-6-4-6-6	
50	5-3-5-5-4/3-3-3-2-2	Rough at 2549'
60	2-3-3-5-2/3-2-2-2-3	
70	3-2-3-6-5/5-7-7-6-6	
80	7-6-6-6-7/6-5-5-7-4	
90	5-5-5-5-6/5-6-5-4-3	
2600	6-5-5-6-6/5-5-4-4-3	

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Depth	Minutes	Remarks
1' Intervals		
2600-2610	5-6-5-4-5/4-3-3-3-4	
20	4-3-3-3-2/2-2-2-2-3	
30	4-5-7-9-7/5-6-6-4-5	
40	7-12-11-12-13/14-15-2-3-2	Trip at 2637'
50	3-2-2-2-3/2-2-2-5-2	
60	3-2-2-3-2/3-3-3-4-4	
70	4-4-5-4-4/4-2-2-2-2	
80	2-4-3-4-4/4-4-4-3-2	
90	3-2-3-2-3/3-2-2-3-2	
2700	3-1-1-1-2/1-1-2-1-1	
2700-2710	1-1-2-2-2/2-2-2-3-3	
20	6-4-4-6-4/4-2-6-4-4	
30	3-3-3-2-2/2-2-2-2-2	
40	3-2-2-2-1/3-4-4-4-3	
50	4-3-5-4-4/3-4-3-3-4	
60	4-3-4-4-2/2-5-4-6-6	
70	7-4-5-4-4/4-3-5-5-4	
80	5-6-4-4-2/2-3-3-4-3	
90	3-3-3-2-2/3-3-2-3-4	
2800	5-3-3-5-4/5-5-3-3-4	
2800-2810	3-3-2-3-3/3-2-2-2-3	
20	2-3-2-3-2/4-3-3-2-5	
30	5-3-4-6-3/3-2-3-3-3	
40	3-1-2-3-5/5-5-4-4-2	
50	3-5-4-3-4/6-5-4-4-3	
60	4-3-3-1-3/2-1-1-2-5	
70	5-4-4-3-3/4-4-4-3-3	
80	4-4-4-3-3/2-4-2-5-4	
90	5-5-4-2-3/4-3-3-4-6	
2900	5-3-2-3-2/3-4-2-2-3	Trip at 2897'
2900-2910	3-2-2-2-2/3-2-2-2-3	
20	2-2-2-1-2/3-3-3-3-3	
30	4-4-4-3-3/3-3-3-3-3	
40	4-3-2-4-4/3-3-3-3-3	
50	4-3-4-4-3/4-4-2-4-3	
60	4-3-3-3-3/2-2-4-4-2	
70	3-3-2-2-2/4-3-4-3-3	
80	2-2-3-2-3/2-2-2-3-3	
90	4-2-2-2-2/2-2-2-1-1	
3000	1-2-2-2-1/2-2-2-2-3	

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DEPTH	MINUTES	REMARKS
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1' Intervals

3000-3010	2-1-2-3-3/3-1-2-2-3	
20	4-4-4-3-4/4-1-2-2-3	
30	3-2-2-3-1/2-2-3-1-2	
40	5-4-2-3-3/3-2-2-3-3	
50	5-4-4-4-3/3-4-3-3-3	
60	4-2-3-2-2/2-1-1-1-2	
70	2-3-2-3-3/4-4-2-3-3	
80	2-4-4-3-3/4-4-3-4-3	
90	3-4-3-2-3/2-3-4-4-3	
3100	3-4-5-5-4/4-3-4-4-5	
3100-3110	5-3-2-3-3/4-2-2-3-2	
20	2-2-2-1-1/4-3-4-4-4	
30	5-3-3-3-4/3-4-2-2-3	
40	3-3-3-2-2/2-2-3-2-3	
50	4-1-2-1-3/3-2-2-1-1	
60	2-1-2-2-4/3-2-3-3-3	
70	4-3-2-3-4/3-5-4-4-4	
80	4-3-4-4-3/2-4-3-3-4	
90	4-3-4-2-2/2-2-3-4-3	
3200	3-3-2-3-3/4-1-2-1-2	
3200-3210	2-2-2-1-2/2-1-3-2-4	
20	3-3-2-2-2/2-2-1-2-2	
30	1-2-2-1-2/2-2-2-2-2	
40	1-1-2-2-1/1-2-1-1-2	
50	2-1-2-2-1/2-2-2-2-2	
60	1-2-2-1-2/2-1-1-1-1	
70	2-1-1-1-2/2-1-2-1-1	
80	2-1-1-1-2/2-2-2-1-1	
90	2-1-1-1-1/1-2-2-3-1	
3300	3-3-2-3-3/4-3-3-3-3	
3300-3310	3-3-4-3-3/3-4-2-2-3	
20	3-3-2-2-2/3-3-5-4-5	
30	4-4-3-4-3/5-2-1-2-1	
40	2-1-1-2-1/1-2-1-1-1	
50	4-5-4-3-4/4-2-3-4-4	
60	4-2-2-2-3/2-3-3-3-1	
70	1-2-3-2-3/2-3-2-2-3	
80	3-2-3-3-2/3-3-2-3-2	
90	3-3-2-2-2/3-2-3-3-3	
3400	3-3-2-2-2/2-2-2-1-3	

Trip at 3351'

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Depth	Minutes	Remarks
<u>1' Intervals</u>		
3400-3410	4-3-3-3-3/3-2-2-2-2	
20	2-2-2-2-1/1-2-1-2-2	
30	2-2-1-2-2/1-1-1-1-1	
40	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ -1/1-1-2-3-4	
50	2-3-2-3-3/2-2-3-3-3	
60	3-2-3-3-2/2-2-3-2-3	
70	2-2-2-2-2/2-2-1-2-2	
80	2-2-1-2-4/4-2-1-1-2	
90	2-2-1-1-1/2-2-3-2-4	
3500	3-2-3-2-2/2-3-2-2-4	
3500-3510	4-4-4-5-4/4-4-4-3-2	
20	3-2-4-4-4/4-5-6-5-5	
30	4-5-5-4-5/5-7-5-5-4	
40	6-4-5-4-2/1-2-3-1-1	
50	5-6-6-6-5/7-6-5-6-6	
60	5-5-6-5-8/5-6-6-4-6	
70	2-1-1-2-2/2-2-2-3-4	
80	4-2-6-4-6/6-6-7-3-3	
90	4-4-4-5-5/5-6-6-5-4	
3600	4-4-4-4-4/5-5-5-5-5	
3600-3610	5-5-2-2-5/2-3-3-2-1	
20	2-2-3-1-2/3-3-2-3-4	
30	3-3-3-2-3/4-3-4-4-4	
40	5-3-2-2-3/2-4-4-6-6	
50	4-3-3-3-3/4-5-4-5-4	
60	5-3-2-2-2/2-2-1-2-3	
70	2-3-5-6-5/4-3-4-6-6	
80	4-2-3-2-3/2-4-4-4-5	
90	5-5-5-8-8/5-6-3-2-4	
3700	4-3-4-3-3/3-4-5-5-5	
3700-3710	6-6-7-5-2/3-5-4-5-4	
20	4-4-4-4-5/5-4-5-6-6	
30	5-7-5-5-6/6-0-6-6-8	
40	9-8-7-8-8/8-8-9-7-5	
50	8-7-7-5-5/3-4-7-6-6	
60	5-4-3-3-3/3-4-4-4-3	
70	3-3-4-3-3/5-3-4-5-5	
80	6-6-5-3-4/6-3-3-4-3	
90	4-4-4-5-4/4-3-4-6-5	
3800	5-6-7-5-4/4-4-5-7-5	

Rough at 3642-43

Slightly rough at 3680'
Trip at 3685'

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Depth	Minutes	Remarks
<u>1' Intervals</u>		
3800-3810	6-4-4-4-4/4-3-4-5-4	
20	5-5-5-4-4/4-5-4-4-5	
30	4-3-7-6-9/6-6-4-5-4	
40	5-5-5-5-4/5-3-5-4-5	
50	4-4-5-5-5/5-6-5-5-5	
60	6-5-4-4-5/4-4-3-5-7	
70	9-7-5-5-3/4-9-13-12-8	
80	9-7-8-8-8/7-8-5-6-6	
90	6-3-5-8-8/6-9-5-6-7	
3900	5-3-3-3-3/3-3-2-2-3	
3900-3910	2-3-5-5-5/6-4-4-4-4	
20	4-4-3-4-4/4-4-4-4-5	
30	5-5-4-4-3/4-4-3-4-4	
40	3-4-3-4-4/4-3-4-3-4	
50	3-4-4-3-4/3-3-3-4-5	
60	4-4-4-3-4/5-4-4-4-4	
70	4-5-9-6-6/7-7-4-5-4	Trip at 3963'
80	4-7-9-6-6/8-7-6-4-5	
90	5-8-7-8-7/7-7-9-11-11	
4000	8-12-8-12-10/10-6-10-13-10	
4000-4010	5-5-8-6-9/9-9-9-9-7	
20	6-9-4-5-4/7-7-5-5-7	
30	7-10-10-12-13/4-10-12-10-8	
40	9-7-7-6-5/5-10-9-10-7	
50	6-5-5-5-4/5-5-6-6-6	
60	6-7-7-7-6/10-14-12-13-12	
70	15-13-14-13-15/12-13-10-11-10	
80	6-5-9-9-4/5-4-4-7-5	
90	6-7-5-4-5/4-3-4-4-4	
4100	5-5-4-4-5/4-5-6-8-10	
4100-4110	9-10-8-10-3/8-8-7-9-10	
20	6-5-4-4-5/6-9-6-5-5	
30	3-2-3-1-1/3-11-12-11-11	Rough @ 4126'; DST #3: 4099- Trip @ 4135'; 4127'
40	12-12-11-11-8/4-4-4-3-4	
50	6-4-6-4-4/3-4-4-4-5	
60	4-2-3-4-6/6-7-9-9-9	
70	8-8-7-7-8/7-0-4-5-7	1' corr. at 4167'
80	10-8-7-9-9/7-8-7-8-7	
90	10-10-9-9-11/9-10-9-9-9	
4200	8-7-8-8-8/7-4-5-4-6	

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Depth	Minutes	Remarks
<u>1' Intervals</u>		
4200-4210	6-6-7-8-8/9-8-8-10-11	
20	8-10-11-10-9/10-10-10-9-9	
30	11-9-10-10-9/10-10-10-10-7	
40	9-9-10-7-8/9-6-5-10-9	
50	6-3-3-12-12/5-4-4-4-6	
60	11-13-9-5-5/8-8-6-10-12	
70	10-11-12-10-9/11-10-10-10-9	
80	9-9-9-10-10/10-10-9-8-7	
90	7-7-3-3-3/5-10-9-9-9	
4300	8-9-9-6-8/4-5-5-5-4	Trip at 4295'
4300-4310	5-7-7-8-7/7-7-8-8-7	
20	8-7-4-3-2/3-2-6-7-7	
30	6-7-7-6-7/4-7-6-6-5	
40	6-7-5-2-7/7-6-7-5-5	
50	6-4-6-5-4/5-6-6-9-10	
60	10-10-10-9-8/8-6-9-7-8	
70	6-6-7-7-10/9-9-8-9-10	
80	10-10-10-10-9/9-8-8-8-7	
90	9-7-8-7-8/5-3-2-4-2	
4400	2-3-3-2-4/4-9-7-7-7	
4400-4410	7-8-7-7-8/8-10-7-5-5	
20	7-9-7-7-7/9-7-8-8-5	
30	3-4-3-4-4/4-4-10-4-3	
40	4-4-4-4-7/7-8-8-11-9	
50	6-6-4-7-4/4-5-7-5-5	
60	3-3-4-4-7/10-8-7-7-6	Rough at 4455'
70	5-6-8-9-9/10-9-10-10-9	
80	10-9-10-10-9/9-9-9-7-7	
90	7-7-9-7-8/7-8-9-6-6	Rough at 4484'
4500	8-10-3-5-4/4-5-7-10-5	Circ. at 4492'; DST #1 4474-9
4500-4510	2-7-2-2-2/2-1-8-13-13	
20	13-16-8-8-9/12-12-12-11-11	DST #4: 4468-4514; DST #5: 4467-4516'
30	10-12-11-11-7/7-7-5-4-2	
40	1-2-1-2-1/½-½-½-½-½	Rough at 4529-33'
57	½-½-½-1-3/1-2	Rough at 4546'; DST #2: 4522-47'

Rotary Total Depth 4547'.