

DRILLING TIME

NE SE SE
Section 21-34S-2W

Herndon Drilling Company
2 F. Subera

Elevation 1196 RB
Sumner County, Kansas

DEPTH	MINUTES	REMARKS
1' Intervals *****		
3000	3-3-4-3-3/33-3-3-3	3007 Conn
10	3-4-3-4-4/4-4-5-3-3	
20	4-3-3-4-3/3-4-3-3-3	
30	3-3-2-2-2/2-2-5-3-2	
40	2-2-3-2-2/2-2-2-2-2	
50	2-2-2-2-2/2-2-2-2-2	
60	2-2-2-2-2/2-2-1-1-1	3068 Conn
70	1-2-2-3-4/3-2-2-3-3	
80	3-2-2-2-2/3-4-3-3-3	
90	2-2-2-2-2/3-3-2-3-3	3098 Conn
3100	3-3-2-3-2/3-3-2-2-2	
10	2-2-2-2-2/2-2-2-2-2	
20	2-2-2-2-2/2-2-2-2-2	
30	2-2-2-2-2/2-2-2-2-2	3129 Conn
40	2-1-2-1-2/2-2-2-2-2	
50	2-2-3-2-2/3-3-2-3-4	3160 Conn
60	5-5-4-4-3/4-6-4-3-3	
70	1-1-2-3-4/4-3-4-4-4	
80	3-4-3-3-3/3-3-3-2-2	3189 Conn
90	2-2-2-2-2/2-2-2-3-2	
3200	2-2-3-3-2/2-2-3-3-3	
10	2-2-2-2-2/2-2-2-2-2	
20	2-2-1-2-1/2-1-1-2-1	
30	1-2-2-1-2/2-1-1-1-2	
40	2-2-2-1-2/1-1-1-1-2	3250 Conn
50	1-1-1-2-2/3-2-2-2-3	
60	2-2-2-2-2/2-2-2-2-1	
70	2-2-3-3-2/2-2-2-3-3	3279 Conn
80	2-3-3-2-2/2-2-2-3-3	
90	5-3-3-3-2/3-3-3-3-4	
3300	3-5-6-6-6/6-6-6-8-7	3309 Conn
10	8-6-7-9-9/10-9-8-11-7	
20	8-9-10-10-11/9-8-8-10-10	
30	10-10-12-5-5/5-6-4-4-4	3333 Trip
40	4-4-4-3-4/4-3-3-4-4	3342 Conn
50	4-4-3-4-4/4-4-4-4-4	

MANIFOLD
 7/26/60
 D. S. A.
 D. S. A.

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Section 21-34S-2W

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Elevation 1196 RB
Sumner County, Kansas

DEPTH	MINUTES	REMARKS
1' Intervals *****		
3360	3-4-4-4-4/4-3-3-4-3	
70	3-3-2-3-3/3-4-4-3-3	3371 Conn
80	3-4-3-4-4/4-4-3-4-3	
90	3-3-3-3-4/4-3-3-3-3	
3400	3-3-2-2-3/3-4-3-2-3	3402 Conn
10	3-3-3-4-4/3-3-3-3-3	
20	2-2-3-5-5/3-3-4-4-3	
30	2-2-2-1-2/3-3-3-4-3	3431 Conn
40	3-3-2-2-3/3-2-2-2-2	
50	2-2-3-3-3/3-3-3-3-3	
60	2-3-3-3-4/3-3-4-4-3	
70	3-3-4-4-5/5-4-3-3-4	
80	3-4-4-3-3/3-3-3-4-4	
90	3-4-3-3-4/5-4-3-3-5	3492 Conn
3500	4-4-4-3-4/4-4-5-5-4	
10	4-5-5-5-5/5-5-3-4-4	
20	3-4-4-5-4/4-4-4-4-4	3521 Conn
30	4-5-4-4-4/3-3-3-3-3	
40	4-3-4-3-4/4-3-3-3-3	
50	3-2-2-2-2/2-2-3-3-3	3552 Conn
60	4-3-4-4-4/4-4-4-5-5	
70	5-5-5-5-5/6-4-4-5-5	
80	5-5-5-4-4/4-3-2-3-3	3582 Conn
90	3-5-4-4-4/4-4-3-4-5	
3600	4-5-4-5-4/3-3-2-3-4	
10	2-2-3-2-2/2-2-2-3-3	3612 Conn
20	3-2-3-5-6/6-8-7-6-6	
30	7-8-8-8-9/8-5-10-10-9	
40	6-5-6-5-5/5-5-5-5-5	3641 Trip
50	6-6-6-6-6/8-6-6-5-5	
60	7-8-7-8-7/8-7-7-7-7	
70	7-7-6-6-6/7-8-8-8-7	3673 Conn
80	7-10-7-8-8/8-6-6-5-5	
90	4-5-4-4-4/4-5-5-5-6	

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DEPTH	MINUTES	REMARKS
1' Intervals *****		
3700	6-6-4-3-4/5-4-4-3-3	3703 Conn
10	3-3-2-2-4/4-2-2-2-2	
20	2-2-2-2-2/3-4-4-4-5	
30	4-4-3-4-4/4-5-4-4-5	
40	4-4-4-4-5/5-4-3-2-2	
50	2-2-4-2-3/3-4-3-3-4	
60	4-5-5-5-7-8/9-5-5-5-5	3763 Conn
70	6-6-6-7-8/11-8-5-5-10	
80	10-7-8-9-10/6-4-4-2-3	
90	10-7-6-6-8/7-5-7-6-7	3792 Conn
3800	6-7-7-9-8/7-9-9-8-9	
10	9-8-7-7-7/10-9-9-11-11	
20	10-10-10-11-12/8-10-10-12-9	3823 Conn
30	10-10-12-5-5/5-7-6-5-5	
40	7-8-7-9-9/4-4-4-4-4	3846 Trip
50	5-4-4-5-5/5-5-4-4-3	
60	3-2-2-2-2/3-2-3-2-2	
70	3-3-2-2-3/2-2-3-3-2	
80	3-2-3-3-3/3-4-3-4-4	3881 Conn
90	3-4-3-4-3/3-3-3-3-3	
3900	3-3-3-4-3/3-3-4-3-3	
10	3-3-3-3-4/6-7-5-5-7	3912 Conn
20	4-5-5-4-5/3-5-5-5-6	
30	5-4-5-6-6/6-5-5-5-5	
40	6-4-4-3-3/3-4-5-6-5	3942 Conn
50	6-5-6-6-6/6-5-6-6-5	
60	5-5-5-6-6/6-5-5-5-5	
70	5-5-5-5-5/5-5-5-5-4	3972 Conn
80	4-5-5-5-5/5-6-7-7-5	
90	5-6-6-6-5/3-3-2-4-5	
4000	5-3-3-3-2/4-5-4-6-6	4002 Conn
10	8-8-6-6-5/6-8-6-6-5	
20	5-3-7-6-5/8-6-6-8-8	
30	5-1-2-6-5/4-5-6-6-6	4031 Conn
40	8-10-9-9-9/6-4-4-6-6	

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DEPTH	MINUTES	REMARKS
1' Intervals *****		
4050	9-8-7-7-5/5-5-3-6-6	
60	6-6-4-5-5/6-4-4-4-6	4060 Conn
70	7-5-7-8-7/6-7-6-5-4	
80	2-3-3-4-6/7-8-10-8-8	
90	7-9-9-9-8/6-7-7-5-7	4091 Conn
4100	8-11-9-5-3/7-6-7-7-4	
10	7-7-6-5-7/4-4-5-6-6	
20	6-7-5-6-6/6-6-7-6-5	4122 Conn
30	6-7-6-8-7/4-7-6-6-7	
40	6-6-6-5-7/7-6-6-4-5	
50	5-6-6-7-8/9-3-3-3-2	4151 Conn, 4156 Trip
60	2-3-2-2-1/3-2-2-3-4	
70	4-2-2-2-2/2-2-2-2-2	
80	2-2-4-3-2/2-2-2-3-3	
90	4-4-4-4-4/2-2-2-3-1	
4200	1-2-2-2-2/2-2-2-2-2	
10	1-1-2-4-3/2-4-3-3-3	
20	2-3-2-4-3/2-2-4-3-3	
30	3-2-2-2-2/2-2-3-3-3	
40	2-2-1-1-2/2-2-2-2-3	4241 Conn
50	2-2-2-2-4/5-5-4-6-6	
60	6-5-5-5-	
4350	27-28-30-35-25/15-11-7-7-7	
60	5-5-5-6-5/6-6-7-6-4	
70	6-5-5-4-4/2-3-3-3-4	
80	4-3-3-4-3/3-3-2-2-3	
90	2-3-3-2-3/2-3-4-9-12	
4400	10-8-9-9-10/8-8-7-8-5	
10	5-8-7-6-5/7-6-6-7-12	
20	14-17-26-18-18/23-20-20-25-21	4421 Conn
30	18-25-25-19-23/17-18-19-19-21	
40	9-10-14-13-10/7-13-7-10-13	4441 Trip

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DEPTH	MINUTES=	REMARKS
1' Intervals *****		
4450	11-9-11-9-9/10-10-11-15-8	4452 Conn
60	7-9-10-9-9/11-12-11-12-12	
70	15-15-13-15-17/15-15-18-17-18	
80	18-17-18-17-18/18-16-19-17-18	4482 Conn
90	17-17-18-15-17/18-14-13-11-14	
4500	12-16-13-11-13/13-14-13-17-19	
10	20-9-9-12-10/10-11-11-10-10	4512 Conn, 4513 Trip
20	10-14-10-21-16/14-16-17-19-20	
30	18-20-19-18-17/14-14-15-14-13	
40	15-15-15-16-19/20-18-15-16-14	4542 Conn
50	17-20-20-18-20/17-20-20-20-20	
60	20-20-18-20-20/19-20-20-23-20	
70	16-20-18-18-21/19-18-20-21-21	4571 Conn
80	21-21-21-20-20/23-25-21-21-23	
90	27-7-9-13-18/16-12-16-13-14	4591 Trip
4600	18-10-15-17-16/18-16-16-15-15	4602 Conn
10	14-18-18-17-18/20-20-20-20-23	
20	20-22-22-23-20/2-3-22-20-21-21	
30	22-20-23-17-22/22-25-14-20-23	4632 Conn
40	25-24-18-17-27/7-8-11-11-13	4645 Trip
50	13-14-15-19-15/13-16-18-15-16	
60	16-13-16-19-20/14-12-15-13-12	4662 Conn
70	16-13-14-15-16/18-17-18-20-19	
80	16-17-20-17-18/20-20-8-8-10	4688 Trip
90	7-7-7-8-7/8-8-8-7-9	4691 Conn
4700	7-6-6-6-7/6-7-7-6-7	
10	4-4-3-4-6/4-4-5-5-5	
20	3-3-4-8-8/5-10-15-14-18	4721 Conn, 4725 Circ
30	16-13-19-33-32/36-33-28-30-17	
40	17-22-	4737, 4741 Circ for samples