

Walters Drilling Co. & Beardmore Drilling Company
 Dickman No. 5
 C SW NW Section 17-17S-24W
 Ness County, Kansas

DRILLING TIME LOG

FROM	TO	DRILLING TIME PER 5 FEET	REMARKS
115	150	1-1-1-1-1-1-1	
	200	1-2-1-1-1-1-1-1-1	
	250	1-1-1-1-2-1-1-1-2-1	
	300	1-2-1-1-2-2-1-1-1-1	
	350	2-1-1-2-1-1-2-1-1-2	
	400	1-1-1-1-2-1-1-1-1-2	
	450	1-2-1-1-1-1-2-1-1-1	
	500	1-1-2-2-2-1-1-1-2-3	
	550	1-1-1-2-3-2-2-2-2-2	
	600	2-2-2-1-2-2-2-2-2-2	
	650	2-1-1-1-1-1/2-1/2-1/2-1	
	700	2-2-2-3-3-3-2-2-3-2	
	750	1-1-2-1-1-1-1-1-1-1	
	800	1-2-3-3-2-2-1-2-3-2	
	850	2-5-4-3-2-2-2-3-2-3	
	900	3-2-3-2-1-2-3-1-1-1	
	950	2-3-3-4-4-4-4-3-1-1	
	1000	1-1-2-2-5-2-5-5-4-4	
	1050	4-4-4-4-4-4-3-3-3-3	

DRILLING TIME PER FOOT

1060	1-1-1-1-1-1-1-1-1/2-1/2
1070	1/1-1-1-1-1-1/2-1/2-1/2-1/2
1080	1-1-1-1-1-1-1-1/2-1/2-1
1090	1-1-1-1-1-1-1-1-1/2-1/2
1100	1/2-1/2-1/2-1/2-1/2-1/2-1-1-1-1
1110	2-2-1/2-1/2-1/3-1/3-1/3-1/3-1/3-1/3
1120	1/3-1/3-1/3-1/3-1/3-1/3-1/3-1/3-1/3-1/2
1130	1/2-2-1-1-2-2-1 1/2-1 1/2-3-2
1140	2-3-3-3-1 2
1150	3 3

DRILLING TIME PER 5 FEET

1200	3-3-3-4-4-4-3-3-3-4
1250	4-2-2-2-2-1-1-1-2-2
1300	1-1-1-1-1-1-1-1-1-1
1350	1-1-1-1-1-1-1-1-1-1
1400	1-1-1-1-1-1-1-1-1-1
1450	1-1-1-1-1-1-1-1-1
1500	2-2-2-2-1-2-2-3-5-5
1550	3-3-2-3-3-3-3-2-2-2
1600	2-2-2-2-3-3-3-3-2-2
1650	2-2-2-2-2-2-3-3-2-2
1700	2-2-2-2-3-3-3-2-2-3
1725	3-3-3-4-3

Trip @1500'

<u>FROM</u>	<u>TO</u>	<u>DRILLING TIME PER FOOT</u>
1725	1730	1/2-1/2-1/2-1/2-1/2
	1740	1/2-1/2-1/2-1/2-1/2-1-1-1-1-1/2
	1750	1/2-1-1/2-1/2-1/2-1/2-1/2-1/2-1-1
	1760	2-2-2-1-1-1-2-2-2-2
	1770	2-3-3-2-3-4-2-3-4-4
	1780	4-4-4-3-3-4-4-4-4-3
	1790	2-1-1-1-1-1-1-2-1-1
	1800	2-2-1-1-1-1-1-1-1-1

DRILLING TIME PER 5 FEET

1850	4-5-5-5-5-5-6-5-6-6	
1900	6-5-6-5-6-6-6-6-6-6	
1950	7-6-6-7-8-8-8-10-9-9	
2000	7-9-4-4-4-4-3-3-3-3	Trip @1960'
2050	3-4-5-4-3-3-3-3-3-4	
2100	3-5-3-3-3-4-5-5-4-3	
2150	5-4-6-5-5-5-5-5-5-5	
2200	5-4-5-5-5-6-4-3-3-4	
2250	2-3-3-3-6-6-4-3-3-3	
2300	3-4-3-4-3-4-4-4-3-4	
2350	2-3-3-3-3-3-4-9-4-5	
2400	6-7-5-6-7-7-6-8-10-7	
2450	4-5-10-10-12-10-10-10-10-15	Trip @2425'
2500	9-9-15-13-13-8-8-13-9-11	
2550	11-10-11-12-10-8-17-10-12-10	
2600	6-7-5-6-6-8-7-6-7-11	
2650	9-11-10-8-8-7-10-9-4-4	
2700	3-4-7-8-4-5-9-9-5-7	
2750	14-15-17-7-10-11-10-15-22-23	Trip @2715'
2800	29-21-19-23-20-16-24-28-22-18	
2850	17-17-15-22-22-32-18-20-29-29	Trip @2830'
2900	28-21-20-30-30-35-26-24-13-25	
2950	27-30-9-7-10-13-8-10-11-13	
3000	9-6-4-3-4-5-12-10-9-9	
3050	10-11-10-10-8-11-10-13-6-7	
3100	9-11-10-11-10-12-11-7-9-8	
3150	9-13-11-11-13-32-25-17-17-22	
3200	28-15-28-29-34-28-23-21-10-17	
3250	19-24-28-30-8-6-6-8-10-7	Trip @3220'
3300	10-10-7-9-9-8-9-7-4-5	
3350	5-6-7-5-5-3-5-6-10-10	
3400	10-10-10-10-10-5-9-10-10-12	
3450	10-12-10-14-12-15-9-13-13-16	
3500	9-13-12-12-8-10-11-9-10-7	
3550	10-9-15-15-15-16-19-18-5-7	
3600	7-3-5-15-12-14-15-25-17-11	

<u>FROM</u>	<u>TO</u>	<u>DRILLING TIME PER FOOT</u>	
3600	3610	3-6-4-4-3-3-3-2-1-2	
	3620	2-2-2-1-2-1-1-2-1-2	
	3630	3-3-4-2-2-2-3-2-2-1	
	3640	1-2-3-2-1-2-1-3-3-3	
	3650	2-1-2-1-4-3-2-3-4-3	
	3660	3-4-4-3-3-3-5-5-4-5	
	3670	5-4-5-5-5-5-4-4-3-2	
	3680	2-4-4-3-4-5-5-6-5-6	
	3690	5-5-3-3-3-5-6-6-4-4	
	3700	5-4-4-5-7-2-3-3-4-3	
	3710	3-6-6-5-5-4-4-5-5-4	
	3720	4-6-5-6-6-5-6-3-2-1	
	3730	1-1-2-2-1-2-2-3-5-5	
	3740	4-3-3-3-2-2-2-2-2-3	
	3750	3-5-6-7-3-3-3-3-2-2	
	3760	2-2-2-2-2-1-1-1-1-1	
	3770	2-2-3-3-4-4-5-6-4-4	
	3780	4-4-4-4-4-4-4-4-4-3	
	3790	3-2-2-2-2-2-2-2-3-4	
	3800	3-2-2-5-6-5-7-7-6-5	
	3810	4-4-5-5-4-4-3-2-3-5	
	3820	7-5-6-5-4-4-6-7-8-8	
	3830	7-8-8-8-6-4-4-4-4-4	
	3840	7-5-6-9-6-7-6-7-6-6	
	3850	5-8-7-7-8-7-7-7-8-7	
	3860	6-6-7-6-6-7-8-6-10-12	
	3870	6-11-12-7-7-6-5-6-7-6	
	3880	8-6-4-5-5-8-7-11-7-6	
	3890	11-10-6-4-7-5-6-10-9-5	
	3900	5-5-6-5-5-9-11-11-11-12	
	3910	12-5-5-5-7-7-6-2-6-8	
	3920	8-7-9-6-9-6-5-8-7-6	
	3930	5-5-2-2-5-6-5-7-7-7	
	3940	6-6-5-5-5-6-8-8-7-4	
	3950	4-3-3-1-1/3-1/3-1/3-1/3-1/3-1/3	
	3960	1-3-5-4-3-4-5-6-7-7	
	3970	6-6-7-6-7-7-7-7-5-5	
	3980	4-5-8-5-6-8-8-7-9-9	
	3990	9-9-11-6-3-12-6-7-7-9	
	4000	9-5-3-3-3-3-9-11-11-8	
	4010	7-5-5-3-6-6-10-10-12-10	
	4020	11-10-4-10-10-12-9-3-4-3	
	4030	3-4-6-5-5-5-11-8-8-11	
	4040	12-6-6-6-4-5-7-8-9-8	
	4050	7-7-8-3-3-6-6-4-8-7	
	4060	7-7-6-7-5-5-5-5-6-7	
	4070	6-5-5-4-5-4-5-5-5-5	
	4080	2-3-3-3-6-3-4-6-7-9	
	4090	6-7-6-6-6-6-6-5-7-7	
	4100	8-7-6-5-7-8-8-10-7-3	
	4110	3-4-11-12-4-4-10-13-5-4	
	4120	5-3-2-8-8-10-10-10-11-13	
	4130	13-15-12-5-5-5-5-10-6-5	
	4140	3-6-6-11-12-9-13-10-12-10	
	4150	6-8-6-5-4-4-3-5-4-4	
			Trip @3703'
			Trip @3901'
			Trip @4031'

<u>FROM</u>	<u>TO</u>	<u>DRILLING TIME PER FOOT</u>	
4150	4160	4-5-10-15-13-13-13-11-11-11	
	4170	11-11-3-2-3-2-3-3-3-3	Trip @4162'
	4180	6-7-5-5-5-5-4-4-4-4	
	4190	4-5-4-4-4-4-3-3-3-4	
	4200	4-3-4-3-4-3-4-4-4-4	
	4210	4-4-3-6-5-5-4-3-5-7	
	4220	5-6-5-5-5-4-5-5-5-6	
	4230	6-5-4-5-5-6-5-6-5-7	
	4240	6-4-6-5-6-5-6-6-5-5	
	4250	6-5-5-7-6-5-6-5-5-6	
	4260	4-4-4-3-4-6-8-8-9-7	
	4270	7-8-8-8-7-8-8-6-10-10	
	4280	10-11-10-9-7-8-10-8-10-7	
	4290	10-10-8-8-9-8-6-6-7-10	
	4300	8-8-9-8-7-7-7-9-7-7	
	4310	8-7-7-6-6-9-7-5-7-6	
	4320	7-8-8-7-6-6-7-6-6-6	
	4330	6-6-6-5-5-5-5-6-5-5	
	4340	3-3-3-2-2-4-4-7-9-5	
	4350	5-7-7-8-8-9-7-6-6-6	Circ. @4342'
	4360	6-6-6-8-8-7-5-4-4-5	
	4370	8-10-5-5-4-3-4-4-5-3	Stop circ. for DST #1
	4380	8-7-7-6-6-5-5-4-6-7	@4362'
	4390	7-4-7-5-5-5-5-5-5-6	
	4400	5-4-7-5-4-3-6-7-7-6	
	4410	8-7-6-7-8-7-10-9-7-6	
	4420	7-8-7-8-7-6-8-9-8-4	Circ. @4419'
	4430	4-4-3-3-5-5-5-6-5-7	Circ. @4426'
	4440	7-7-7-11-10-6-8-7-6-6	Circ. @4432' - Circ. @
	4450	17-13-12-12-11-15-13-12-12-11	4437'
			Circ. for Core #1
			4440-4450'
	4460	9-12-15-20-22-37-19-14-16-10	Circ. for Core #2
			4450-4455'
	4470	14-18-15-17-15-17-13-8-8-9	Core #3
			4455-4470'
			R. T. D.