

DRILLING TIME LOG

Musgrove Petroleum Corporation, Inc.

Logue No. 1
NW NW NE Section 8-68-24W
Graham County, Kansas

Depth		Drilling Time	Remarks
From	To		
3200 to	3210	4-9-8-5-5-6-6-6-6-9	Vis 30 Wt 10 3210
	3220	9-8-9-8-4-7-7-7-4-4	Conn. 3220
	3230	10-10-5-7-6-6-6-6-4-4	
	3240	4-5-5-5-4-4-3-3-3-4	Vis 37 Wt 10 3234
	3250	4-5-5-7-7-4-4-2-3-5	Trip service rig 3245; conn. 3250
	3260	5-5-5-6-4-2-3-3-3-2	
	3270	3-3-4-5-4-3-4-4-4-3	Vis 34 3268
	3280	3-5-4-5-5-5-6-5-5-5	
	3290	4- -3-3-3-3-3-5-5-3	Conn. Kelly 1' short 3282
	3300	5-7-5-5-6-3-3-3-3-2	
3300 to	3310	4-6-2-4-5-6-4-5-5-4	
	3320	2-4-2-1-3-4-4-3-3-3	Conn. 3313; vis 39 3315
	3330	3-5-5-5-6-5-5-4-4-3	
	3340	3-4-3-3-3-3-4-2-2-3	
	3350	4-5-4-6-8-6-5-5-5-5	Conn., service rig 3344
	3360	4-6-5-3-4-3-3-4-5-5	
	3370	6-6-5-7-6-6-6-5-6-3	
	3380	3-2-2-3-6-5-5-5-4-5	Conn. 3374
	3390	5-4-4-4-3-4-3-3-3-3	
	3400	4-3-3-2-3-4-5-5-5-6	
3400-to	3410	6-6-5-5-5-6-7-4-3-4	Conn. 3405
	3420	4-5-7-8-6-4-7-5-5-4	
	3430	4-3-3-3-4-4-5-5-7-6	
	3440	7-9-6-6-5-6-5-6-5-5	Conn. service rig 3437; SR 3438
	3450	3-3-2-3-4-5-5-4-5-9	
	3460	7-6-5-4-4-3-5-6-6-6	Vis 40 Wt 10.8 3458
	3470	4-6-5-6-6-5-4-4-4-5	Conn. stuck 3468
	3480	6-4-5-6-3-4-7-9-10-9	Vis 38 Wt 10.6 3479
	3490	9-10-9-9-11-5-11-4-3-2	Vis 37 Wt 10.6 3486
	3500	2-1-2-1-2-1-2-1-1-1	Conn. 3499
3500 to	3510	2-1-2-1-2-1-2-2-2-1	
	3520	3-5-5-7-6-8-7-6-7-7	Vis 37 Wt 10.5 3511
	3530	7-4-4-5-5-4-5- -4-5	Kelly 1' short, service rig 3528
	3540	7-6-6-5-8-10-8-6-7-6	
	3550	7-7-9-10-11-5-3-6-10-9	Jetted pits 3546
	3560	7-5-6-5-4-3-3-5-3-3	Conn. 3559
	3570	7-9-12-9-8-7-2-7-7-6	
	3580	5-4-9-5-4-5-5-4-6-3	Vis 39 Wt 10.5 3579
	3590	5-8-6-6-6-6-6-6-6-3	Trip 3585; conn. 3590
	3600	5-5-6-5-3-3-2-6-4-5	

Depth		Drilling Time	Remarks
From	To		
3600 to	3610	5-4-3-3-4-3-4-6-5-5	
	3620	4-4-3-4-4-4-5-5-5-4	
	3630	5-4-5-6-6-7-6-4-4-4	Conn. 3622
	3640	3-4-4-5-7-6-7-8-6-7	
	3650	7-7-8-8-7-8-8-4-6-6	Circ for DST 3647
	3660	6-6-6-8-7-5-5-6-7-7	Conn. & service rig 3653; Work
	3670	5-5-9-6-6-4-3-6-9-9	on pump 3655 and 3664; circ. 1 hr,
	3680	5-5-4-5-5-3-7-9-10-11	3669.
	3690	11-12-11-5-10-10-11-13-10-7	Conn. 3684
	3700	8-10-14-8-9-5-10-7-5-8	Circ for DST #2 3695
3700 to	3710	9-6-6-5-3-4-7-7-7-8	
	3720	4-5-8-6-8-6-7-8-8-8	Conn. 3713, 3715 (?)
	3730	7-7-8-8-7-7-9-5-5-5	DST #3 3727
	3740	6-6-8-12-16-9-6-13-15-14	
	3750	10-8-11-10-8-10-11-8-7-12	Conn. 3744
	3760	11-12-11-15-17-13-12-11-14-13	
	3770	15-14-14-10-11-13-11-10-11-11	
	3780	13-12-9-7-7-5-7-9-9-7	Conn. service rig 3777; circ 3780
	3790	12-11-14-12-13-7-9-9-7-8	
	3800	11-10-9-5-6-12-11-10-8-12	
3800 to	3810	12-12-12-12-11-10-7-10-8-7	Conn. service rig 3807; vis 37
	3820	4-6-6-5-6-7-9-9-7-7	wt 10.7 3808, circ. 3810
	3830	8-4-6-6-4-2-2-1-1-1	
	3840	2-1-2-1-1-1-2-8-2-2	vis 37, conn. 3837
	3850	4-3-4-6-5-10-9-7-5-7	
	3860	6-5-5-5-3-4-4-4-8-8	
	3870	4-8-8-6-8-8-8-5-5-4	vis 38 3865, conn. 3867
	3880	5-4-4-4-6-6-5-5-2-3	
	3890	2-1-3-4-5-8-6-8-8-7	
	3900	9-7-5-5-5-8-5-4-5-7	Conn. service rig 3899
3900 to	3910	8-7-6-6-8-6-8-10-8-9	
	3920	9-9-8-10-10-9-10-10-10-11	
	3930	9-9-10-10-9-11-10-9-10-8	
	3940	8-8-10-10-10-12-11-11-12-10	Conn. 3931
	3950	12-10-7-7-8-10-11-10-8-8	Vis 48 wt 10.9 3944
	3960	8-10-8-9-8-9-8-7-7-9	
	3970	9-5-6-8-10-10-10-8-9-9	Vis 38 wt 10.4 3970; conn. service
	3980	10-7-7-4-6-7-8-4-3-4	rig 3962
	3990	3-5-5-4-4-4-3-5-5-7	Vis 37 wt 10.4
	4000	7-6-4-3-8-6-6-5-7-5	Conn 3994, vis 38 wt 10.4
4000 to	4010	6-6-6-6-6-5-6-6-5-5	
	4020	5-4-5-4-4-4-5-4-4-4	
	4030	4-3-3-3-4-3-4-4-3-3	Conn. service rig 4022
	4040	3-2-3-2-4-4-3-2-3-3	
	4050	3-3-4-3-4-3-3-3-4-5	
	4060	4-4-3-8-9-8-8-12-3-4	Conn 4052, trip 4058
	4070	5-5-6-4-4-3-3-3-5-4	Circ 4065
	4080	5-2-3-5-6-5-6-5-4-4	
	4090	5-5-11-18-11-9-9-5-3-5	Conn. service rig 4083; circ 4090
	4100	5-6-6-3-6-7-9-6-10-6	SR 4094, 4098, 4099
4100 to	4110	4-3-2-5-6-7-4-5-4-4	SR 4100; R 4102; Circ 4106
	4120	4-4-5-4-8-7-6-5-3-4	SR 4111; conn 4113; R 4115-17
	4130	6-5-3-6-7-4-5-2-4-2	
	4140	2-2-3-1-3-4-5-6-7-2	R 4133; TD 4140

CIRCULATION TIME

Musgrove's Logue No. 1
NW NW NE Sec. 8-6S-24W
Graham County, Kansas

3647	Circulation for samples	and Drill Stem Test	1 hour
3669	" " "	" " " "	1 hour
3695	" " "	" " " "	1 hour
3727	" " "	" " " "	1 hour
3755	" " "	" " " "	30 minutes
3780	" " "	" " " "	1 hour
3810	" " "	" " " "	1 hour
4065	" " "	" " " "	38 minutes
4090	" " "	" " " "	37 minutes
4105	" " "	" " " "	1 hour