DRILLING TIME LOG

Musgrove Drilling Co.
KUBIK NO. 1
NW NW SW Sec. 30-33S-3W
Sumner County, Kansas

Depth	Minutes	Remarks
1' Intervals		
2700	2-2-2-2-2/2-2-3-2-2	
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	
40	2-2-2-2-2/2-3-3-4-4	
50	4-4-2-3-4/3-3-2-3-2	
60	3-3-4-5-3/2-3-2-2-3	
70	2-2-2-2-2/2-3-4-4-7	
80	7-7-7-4-3/3-3-2-2-6	
90	4-3-3-4-3/3-3-3-3-3	
2800	3-3-4-4-4/4-4-4-4-4	
10	4-5-6-5-6/6-6- -4-3	
20	4-2-3-5-5/4-3-3-3-3	
30	5-4-4-3-3/3-4-3-3-3	
40	3-4-3-4-3/4-3-3-3-3	
50	2-2-3-2-3/3-3-3-3-3	
60	3-4-3-3-3/3-4-3-3-4	
70	3-4-4-4-3/3-5-2-2-4	
80	4-2-4-3-3/3-2-3-2-2	
90	3-4-3-4-4/4-4-4-4-4	
2900	4-6-4-4-3/4-3-2-2-3	
10	3-2-3-3-3/2-4-4-3-3	
20	3-4-3-3-3/3-4-4-3-4	
30	3-3-3-3-2/3-3-3-2-2	
40	2-3-3-3-3/2-4-3-4-4	
50	4-5-3-4-4/4-3-3-3-3	
60	4-4-3-4-2/4-3-3-3-3	
70	3-3-3-4-3/3-3-3-3-3	
80	3-3-3-4-3/2-3-3-3-4	
90	3-4-4-4-3/3-3-4-3-2	

Depth	Minutes	Remarks
3000	2-2-2-3-3/2-2-2-2-2	
10	2-3-3-3-4/4-3-4-4-4	
20	4-4-3-4-4/3-2-3-2-2	
30	2-2-2-3-2/2-2-2-2-2	
40	3-2-2-3-2/2-2-2-3-3	
50	3-4-4-5-6/4-4-2-2-2	
60	2-2-3-3-3/4-5-4-3-2	
70	3-3-3-3-3/3-3-3-3-2	
80	3-3-3-3-3/3-3-3-3-3	
90	2-2-3-3-3/5-3-2-3-3	
3100	3-4-3-2-3/2-2-2-2-2	
10	3-2-2-3-3/3-2-3-4-2	
20	3-4-4-6-5/4-5-3-5-6	
30	5-6-4-4-3/3-3-3-3-2	
40	2-4-2-3-3/3-2-3-2-2	
50	1-1-1-2-3/3-3-3-1-5	
60	2-2-3-4-3/3-3-2-2-2	
70	2-2-2-1-2/2-1-2-2-2	
80	1-2-2-2-2/1-2-3-1-2	
90	2-2-2-2-2/2-2-3-3-2	
3200	3-2-2-3-3/2-5-3-2-4	
10	3-3-3-3-2/3-2-3-4-5	
20	4-3-5-5-4/5-6-5-6-5	
30	6-5-6-4-5/7-7-5-5-5	
40	7-8-7-7-8/6-6-5-4-3	
50	3-3-3-3-4/5-4-4-3-4	
60	3-3-3-3-3/3-3-4-4-2	
70	2-4-3-4-3/3-3-3-3-3	
80	4-3-4-4-3/4-4-3-3-3	
90	3-3-3-3-3/3-4-3-4-3	
3300	3-2-4-4-4/3-3-3-4-4	
10	3-3-4-3-4/3-3-2-4-4	
20	3-4-3-3-4/ 3-4-4-6-3	
30	4-3-4-4-4/4-4-4-4-4	
40	4-4-4-4-4/4-4-4-4-4	
50	4-4-4-4-4/4-4-4-5-4	
60	6-5-5-5-6/6-7-6-5-6	
70	6-5-5-5-6/5-5-5-5-5	
80	5-6-7-6-6/6-7-9-3-2	Trip at 3388
90	3-3-3-3-3/3-3-3-3-3	

Depth	Minutes	Remarks
3400	3-2-3-3-3/3-3-3-3-3	
10	3-2-3-3-5/3-2-2-3-3	
20	3-3-3-3-3/3-3-3-3-3	
30	2-3-2-3-3/2-2-3-3-3	
40	3-7-4-3-5/4-5-4-5-3	
50	3-2-2-2-3/2-5-6-5-6	
60	6-6-7-6-4/6-5-6-9-7	
70	4-4-3-3-2/2-3-3-4-3	
80	9-10-10-10-16/9-12-9-10-10	
90	9-12-9-11-6/5-5-6-5-8	
3500	8-6-7-7-6/7-6-6-7-7	
10	5-4-3-3-3/4-5-8-9-9	
20	5-4-5-4-4/5-3-4-4-5	
30	6-3-3-3-3/4-3-4-4-4	
40	3-3-3-3-5/5-3-4-3-4	
50	4-4-3-4-5/4-10-10-9-10	
60	12-7-6-7-7/10-12-11-10-10	
70	8-3-6-12-11/13-11-9-8-11	
80	9-6-5-5-4/5-4-5-5-9	
90	9-10-10-10-11/8-8-9-11-6	
3600	6-8-6-7-5/6-7-7-9-10	
10	12-11-11-9-8/12-9-11-6-6	
20	5-5-5-10-1/1-3-4-3-3	
30	4-3-4-6-7/9-9-12-11-10	
40	9-9-9-7-7/4-4-6-7-9	
50	9-11-5-10-8/8-7-9-10-10	
60	9-4-4-3-3/3-9-9-8-8-	
70	5-9-15-9-11/10-9-9-9-10	
80	7-3-1-3-8/10-7-5-6-6	
90	6-3-4-6-4/5-5-5-4-5	
3700	4-5-4-4-4/5-4-5-4-5	
10	5-6-5-4-5/5-6-4-5-5	
20	6-3-3-5-7/10-9-9-6-9	
30	8-7-8-6-6/5-5-4-6-4	
40	5-8- - - / -5-6-6-6	
50	6-6-3-5-6/7-6-8-7-8	
60	7-6-6-7-6/3-11-7-7-6	
70	8-7-9-8-10-12-10-13-13-11	
80	17-4-5-5-3/4-3-3-4-5	
90	2-6-6-5-3/4-4-6-7-5	

Depth	Minutes	Remarks
3800	4-4-4-5-4/4-4-5-4-5	
10	6-4-4-5-5/5-5-5-4-5	
20	4-5-4-3-4/4-4-3-5-5	
30	4-3-5-4-4/5-4-5-5-3	
40	4-4-4-2-3/4-4-4-4-4	
50	4-4-4-4-4/3-3-1-2-3	
60	3-4-3-6-6/7-6-7-7-5	
70	5-5-4-2-2/3-4-7-6-6	
80	7-8-8-8-9/8-9-9-8-5	
90	11-5-7-6-3/2-3-4-4-4	
3900	4-4-4-4-8/8-9-9-7-4	
10	6-9-8-6-5/7-6-5-7-6	
20	5-6-5-10-8/7-13-6-6-13	
30	15-17-12-4-3/4-4-4-4-5	
40	3-4-5-4-4/3-3-4-4-4	
50	4-4-2-3-4/4-4-3-2-3	
60	3-5-4-3-3/3-4-4-3-3	
70	4-4-5-4-3/4-4-3-4-4	
80	4-4-4-4-2/2-2-3-2-2	
90	3-3-4-3-3/2-3-3-4-3	
4000	1-2-3-4-4/3-4-3-2-3	
10	4-5-5-4-3/2-2-3-5-4	
20	4-5-5-5-5/3-3-2-3-4	
30	4-4-4-4-3/5-5-3-5-5	
40	6-4-5-5-5/6-5-3-3-2	
50	3-4-6-4-3/3-4-3-3-4	
60	5-5-4-5-5/7-6-7-5-4	
70	7-7-7-5-4/5-5-7-6-8	
80	5-5-5-6-6/3-5-6-6-6	
90	5-6-8-6-10/11-6-8-6-7	
4100	8-5-6-6-6/6-6-6-7-7	
10	7-8-7-7-8/6-9-7-6-4	
20	5-5-4-4-5/16-8- 7-7-7	
30	6-9-8-9-8/8-8-9-10-9	
40	10-11-10-12-12/7-8-10-11-9	
50	10-7-8-12-16/11-12-16-14-15	
60	16-13-9-11-10/8-3-3-4-4	Trip at 4161
70	8-10-10-8-4/ -6-11-15-13	
80	9-8-9-8-10/9-13-11-12-13	
90	14-14-13-12-14/15-12-13-14-15	

Depth	Minutes	Remarks
4200	14-16-16-12-15/18-13-20-18-17	
10	19-16-19-19-17/19-15-12-15-18	
20	23-18-18-19-16/15-18-18-27-23	
30	25-8-8-9-10/12-9-9-8-7	
40	7-7-7-8-11/9-9-13-12-15	
50	11-13-13-11-12/17-13-15-21-21	
60	21-17-22-23-22/15-11-19-25-23	
70	27-4-6-4-6/5-5-5-4-4	Trip at 4271
80	5-5-5-7-6/7-9-9-9-10	
90	8-9-11-8-8/8- -7-10-12	
4300	12-10-10-11-10/12-10-10-10-11	
10	11-11-12-12-11/10-12-9-10-9	
20	8-6-6-5-6/9-7-6-6-5	
30	5-7-7-4-5/4-8-8-12-12	
40	12-14-12-12-13/13-12-14-13-12	
50	13-14-13-7-11/10-9-6-10-13	
60	12-9-7-7-6/8-11-18-8-10	
70	11-11-14-15-5/8-7-6-4-4	Trip at 4374
80	4-3-5-3-3/6-4-2-5-3	
90	4-5-6-10-8/8-11-9-7-7	
4400	7-6-5-7-7/6-5-7-5-8	
10	11-8-9-6-8/7-8-10-6-7	
20	9-8-10-11-9/8-13-10-10-12	
30	12-15-12-17-16/12-12-11-13-15	
40	14-13-15-15-14/14-11-9-6-18	
50	18-5-8-5-5/7-7-6-5-5	
60	6-5-4-6-5/5-4-6-6-4	
70	5-4-4-5-5/4-4- -3-4	
80	6-6-5-5-5/6-6-4-6-4	
90	6-5-4-5-4/5-6-5-5-5	
4500	4-5-14-54-35/70-10-10-6-6	
10	11-14-9-7-9/9-6-8-9-10	
20	9-9-10-10-10/11-4-6-6-7	
30	9-8-8-6-8/6-7-6-7-7	
40	8-7-9-7-8	