Mobil Oil Corporation Mobil Technical Services Inc.

Company MOBIL EXPLORATION NORWAY INC.

Well 33/12-3

Drilling Summary

MUD PROPERTIES

DATE 1975 Mud Report	DEPTH	WEIGHT LBS/GAL	FUNNEL VIS, SEC.	API W.L. CC	PH	% SOLIDS	% SAND	% OIL	CL, PPM	O/W RATIO	HT/HP W.L. CC	FL TEMP.	
4-26	~~805~~ 1174 √	8.9	45	13	9.5	Formation Test Mud							
4-27	1580	8.9	45	13	9.5								
4-30	1580	9.0	45	8	9.5	6	nil	0	2000	0	-	-	
5-5	1580 √	8.9	67	9	9.0	6	nil	0	2000	0	-	-	
5-6	2090	9.0	44	8.2	9.5	10	3/4	0	1900	0	-	-	
5-7	3700	9.3	42	7.5	10.0	11	3/4	0	1850	0	-	-	
5-8	5030 √	10.2	44	9.0	9.0	14	1/4	0	2000	0	-	-	
5-9	5660 √	10.0	45	7	9.0	10	1/4	0	2000	0	-	-	
5-10	5660	10.0	70	7.0	9.0	10	TR	0	2000	0/100	-	-	
5-11	5660	10.0	42	8	9.0	10	½	0	1700	0/100	-	-	
5-12	5660	10.0	42	8	10.5	10	1/4	0	2100	0/100	-	-	
5-13	5660	10.0	40	5	9.5	10	1/4	0	2500	0/100	-	-	
5-14	5660	10.0	40	4.2	9.5	10	TR	0	2000	0/100	-	-	
5-15	5660	10.0	38	4.3	9.0	10	TR	0	1950	0/100	-	-	
												TOTAL	

MUD MATERIAL CONSUMPTION

DATE	BARYTE LBS.	BENTONITE LBS.	CMC, LBS.	CAUSTIC LBS.	FCL	SODA ASH	DRISPAC	GAL MD	BICARB	MYCA
4-26		8800	275	220		110	110	55		
4-27		6600					110			
4-30	10,000	28600	550	220	1100		110			
5-5		13,200			1,650		110			
5-6					550	220			440	
5-7		7920	825		2200		220			
5-8	226,700	13,860	990	550	2805		110			3080
5-9	70000	-	825	440	7205					
5-10	46000	8000	0	110	1485		300			
5-11	0	2200	0	440	1650	0	0	110		
5-12	0	2200	0	0	3575	1210	100			
5-13	27500	2200	0	0	0	0	50			
5-14		NO MATERIAL USED								
5-15	26000	0	0	0	605	0	1000	INVENTORY ADJ. FROM PREVIOUS WEEK		
TOTAL	406200	93580	3465	1980	22825	1540	2220	165	440	3080
								WELL ABANDONED		

BITS / HYDRAULICS / PARAMETERS

DATE	BIT NO.	SIZE	TYPE	JETS	HOURS RUN	DEPTH OUT	FOOTAGE	FEET/HOUR	CONDITION B	CONDITION T	CONDITION G	G.P.M.	PRESSURE P.S.I.	ANNL VEL. FT./MIN.	PUMP HHP	ΔP AT BIT	BIT HHP	JET NOZZLE VEL. FT./SEC.	WT. ON BIT 1000 LBS.	ROTARY R.P.M.	TOTCO AT BIT CHANGE
4-26	2	17½	OCS3	18/18/18	1½	813	8					1073	3000		1878	1700	1064	460	10,000	50	-
4-27	2 RR	17½	OCS3	18/18/18	6½	1580	675	103				954	2500		1391	1350	751	410	10,000	50-80	1/4
5-6	3	17½	C3A2 HTC	3X24	28½	3918	2338	82	2	2	I	1431	2900	100	2421	980	818	345	25000	100	3/4
5-7	4	17½	S3S-J	OPEN								1240	3000	110	2098				30/35	110	3/4
5-8	4	17½	S3S-J	OPEN								1240	3000	110	2098				30	110	
5-9	4	17½	S3SJ	OPEN	27½	5660	1746	63				1192	3000	100	2086				30/35	110	

Mobil Oil Corporation Mobil Technical Services Inc.

Company MOBIL EXPLORATION NORWAY INC.

Well 33/12-4

Drilling Summary

MUD PROPERTIES (°C)

DATE (Mud Report)	DEPTH	WEIGHT LBS/GAL	FUNNEL VIS, SEC.	API W.L. CC	PH	% SOLIDS	% SAND	% OIL	CL, PPM	O/W RATIO	HT/HP W.L. CC	FL TEMP.	
May 17	0	10.0	50	3.8	9.0	10	TR	0	2000	0/100	-	-	
May 18	760	10.2	101	3.5	9.0	11	TR	0	1950	0/100	-	-	
May 19	764	10.2	96	4.0	9.0	11	TR	0	1950	0/100	-	-	
May 20	770	8.8	51	6.0		Spud Mud & Leak off test mud							
May 21	770	9.0	52			Spud Mud							
May 22	770	9.0	52			Spud Mud							
May 23	770 ✓	9.0	52			Spud Mud							
May 24	1209 ✓	9.0	52			Spud Mud							
May 25	1625 ✓	9.0	52			Spud Mud							
May 26	1625	8.7	42	9	10.5	3	NIL	0	600	0/100	-	-	
May 27	1625	8.7	42	9	10.5	3	NIL	0	600	0/100	-	-	
May 28	1625	8.7	42	9	10.5	3	NIL	0	600	0/100	-	-	
May 29-June 2	1625	8.7	42	9	10.5	3	NIL	0	600	0/100	-	-	
June 3	1990 ✓	8.8	46	12	9.0	10	½	0	750	0/100	-	25	
June 4	3380 ✓	9.1	35	9.4	9.0	11	1/4	0	800	0/100	-	25.1	
June 5	5540 ✓	9.1	44	9.0	9.0	8	1/4	0	1800	0	-	36.7	
June 11	6725 ✓	11.6	47	6.2	9.0	14	1/4	0	8000	0	-	32.8	
June 12	7050 ✓	13.1	53	9.0	9.0	25	½	0	5500	0/100	-	33.5	
June 13	7269	13.5	48	6.2	9.0	27	1/4	0	4000	0/100	-	33.1	
June 14	7591 ✓	13.5	46	4.8	9.5	26	½	0	3200	0/100	-	33.2	
June 15	7830	13.5	46	4.8	9.5	26	1/4	0	2900	0/100	-	33.5	
June 16	7834	13.3	53	3.9	9.5	27	NIL	0	2000	0/100	-	-	
June 17	8020 ✓	13.5	52	4.2	9.0	22	1 ½	0	1900	0/100	-	31.2	
June 18	8116	13.5	53	4.0	9.0	24	1 %	0	1850	0/100	-	32.1	
June 19	8357	13.4	48	2.4	9.0	24	½	0	2000	0/	-	32.8	
June 25	8554 ✓	13.5	46	2.5	9.5	22	1	0	2000	0/	-	24.2	
June 26	8610	13.5	44	3.2	9.5	24	1/4	0	2000	0/100	-	27.5	
June 27	8790	13.5	46	3.8	9.5	23	1/4	0	1850	0/100	-	32.5	
June 28	8837	13.5	44	3.7	9.0	23	1/4	0	1800	0/100	-	30.8	
June 29	8892	13.5	44	4.3	9.0	24	1/4	0	1700	0/100	-	31.2	

MUD MATERIAL CONSUMPTION

DATE	BARYTE LBS.	BENTONITE LBS.	CMC, LBS.	CAUSTIC LBS.	FCL	Drispac	Soda ash	M.D.	Bicarb	Kwik-seal	Mica	Nut plug	Foam ban	Lubrikleen
May 17	53,493	19,800	0	440	5830	7200	1210	110 gm		Liquid Mud Transferred from 33/12/3				
May 18	0	18.600	0	0	0	0	0	0						
May 19	0	6600	0	0	0	0	0	0						
May 20	0	13.200	440	0	0	100	0	0						
May 21		No material used												
May 22		No material used												
May 23		No material used												
May 24		No material used												
May 25	0	2090	0	0	0	0	0	0						
May 26	0	26400	825	660	1650	150	0	0						
May 27		No material used												
May 28		No material used												
May 29-June 2		No material used												
June 3	0	6600	0	0	0	0	0	0						
June 4	0	1210	605	660	605	0	0	0						
June 5	0	8910	1155	660	2915	200		220						
June 11	175,500	23.980	2035	1430	16830	100	1320	660						
June 12	224.800	1870	935	-	4455	220	-	-						
June 13	241.200	330	165	330	2915	-	-	55		800	2200	550		
June 14	205,400	1320	990	440	3575			110				110		
June 15	75,200	1320	-	-	3575	-	-	110	-				30	
June 16	160,600	14850	-	770	1045	-	-	-		1200	4125	6050		
June 17	36.700	5500			1870							3960	55	110
June 18	63.400	-	220	-	3190	-	-	-	-		3795	6875	55	55
June 19	52.100	4400	220	1430	16.720					400	6875	10.300	80	110
June 25	166,800	3850	550	880	1650									
June 26	30,900	1100	0	660	1925									
June 27	13.200	1320	330	330	440									110
June 28	17.800				2365									
June 29	47.200													

BITS / HYDRAULICS / PARAMETERS

DATE	BIT NO.	SIZE	TYPE	JETS	HOURS RUN	DEPTH OUT	FOOTAGE	FEET/HOUR	CONDITION B	T	G	G.P.M.	PRESSURE P.S.I.	ANNL VEL. FT./MIN.	PUMP HHP	ΔP AT BIT	BIT HHP	JET NOZZLE VEL. FT./SEC.	WT. ON BIT 1000 LBS.	ROTARY R.P.M.	TOTCO AT BIT CHANGE
May 17																					
May 18	1	36	Servco 3 arm	-	10½	764	200'	21	Good												
May 19	1	26"	reed dxt	open	10½	764	200'	21	Good												
May 20	RR	17½	HTC osc3j	open																	
May 25	2RR	17½ x 26"HO		open	19½	1625	853	43,74	2	2	n	1416	2000	85	1652				10	130	1°
June 3	3	17½	T53T	24x3	21							1312	3200	110	2449	760	581	310	25/30	150	
June 4	3	17½	"	24x3	36½							1312	3200	110	2449	800	612	310	25/30	150	
June 5	3	17½	T53T	24x3	56½	5400	3775	66				1243	3200	110	2321	740	537	300	30/35	120	½
June 11	4	12 1/4	XIG	½½½	33	6748	1348	40.8				715	2900	130	1210	1570	655	390	20/25	100	
June 13	5	12 1/4	S-4TJ sec	3-16	19 ½	7269	521	26.7	25	7	i n	720	3300	140	1386	1850	777	390	20/40	100	1/4
June 15	6	12 1/4	SDT Smith	3-18	33 ½	7832	563	16.8	4	6	I	720	3200	140	1344	1150	483	310	35/40	100	3/4
June 18	7	12 1/4	sl3g reed	3-22	21	8116	294	14	2	3	I	720	2700	140	1134	520	218	210	45/50	90-100	mis run
June 19	8	12 1/4	ytI reed	3-22	20½	8357	241	11.7	5	7	I	703	2700	140	1107	500	205	200	45/50	100	3°
June 25	9	8 ½	XIG	3-14	21½	8554	197'	9.2	7	7	I	390	3000	205	683	920	209	280	30/35	80	4°
June 26	10	8 ½	S-44	3-16	25½	8790	236	9.3	3	5	I	636	3400	345	1262	1450	538	350	25/35	60/75	2½°
June 28	11	8 15/32	chris c-18	260	9 ½	8837	47	4.9	good			200	1200	105	140				15	95	
June 29	11RR	8 15/32	chris c-18	260	5	8874	37	7.4	good			220	1400	115	180				10/15	90/100	

Mobil Oil Corporation

Mobil Technical Services Inc.

Company MOBIL EXPLORATION NORWAY

Well 33-12-4

Drilling Summary

DATE Mud Report	DEPTH	MUD PROPERTIES											MUD MATERIAL CONSUMPTION																							BITS												HYDRAULICS								PARAMETERS			
		WEIGHT LBS/GAL	FUNNEL VIS, SEC.	API W.L. CC	PH	% SOLIDS	% SAND	% OIL	CL, PPM	O/W RATIO	HT/HP W.L. CC	FL TEMP.	BARYTE LBS.	BENT-ONITE LBS.	CMC, LBS.	CAUSTIC LBS.	FCL lbs	DRISPAC lbs	SODA ASH	MID gal.	bicarb lbs	kwik seal lbs	mica lbs	nut plug lbs	foam ban gal	lubri klean gal											BIT NO.	SIZE	TYPE	JETS	HOURS RUN	DEPTH OUT	FOOT-AGE	FEET/ HOUR	CONDITION B	CONDITION T	CONDITION G	G.P.M.	PRES-SURE P.S.I.	ANNL VEL. FT./MIN.	PUMP HHP	ΔP AT BIT	BIT HHP	JET NOZZLE VEL. FT./SEC.	WT. ON BIT 1000 LBS.	ROTARY R.P.M.	TOTCO AT BIT CHANGE	
June 30	8970	13.5	43	1.0	9.0	21	1/4	0	1700	0/100	-	29.8	No material used																							11 RR	8 15/32	C-18	2-60	5	8928	27	5.4	GOOD			240	1200	125	168				10/15	100	
July 1	9095	13.5	46	3.3	9.5	24	1/4	0	1800	0/100	-	31.2	29,300	2090	0	440	1265								55											12	8 1/2	S-44	3-16	11 1/2	9071	143	12.4	3	4	I	636	3400	345	1262	1450	538	350	30/35	70	4°
July 2	9107	13.5	45	4.2	9.0	25	1/4	0	1850	0/100	-	32.8	No material used																							11 RR	8 15/32	C-18	260	3 1/2	9096	22	6.3				233	1200	123	163				15	75	
July 3	9146	13.5	44	4.0	9.5	25	1/4	0	1700	0/100	-	31.5		1210		550	330																			13	8 1/2	reed FP52	3-14	1 1/2	9106	10	6.7	1	1	I	545	3400	285	1081	1900	604	385	30/35	45/70	
July 4	9254	13.0	45	4.5	9.0	20	1/4	0	1500	0/100	-	31.0		3300			1100			110																11 RR	8 15/32	C-18	260	3 1/2	9146	18	5.1	washed out			233	1200	123	163				15	75	
July 5	9469	13.0	45	3.5	9.5	20	1/2	0	1500	0/100	-	31.2				660	1650								110											14	8 15/32	C-18	260	2	9155	9	4.5	good			202	1250	105	147				15	85	
July 6	9500	13.0	50	3.8	9.5	20	1/2	0	1500	0/100	-	32.5		No material used																							13 RR	8 1/2	reed FP52	3-12	41	9500	355	8.2	2	1	I	529	4000	280	1234	2900	895	500	40	55	
July 7	9500	13.0	46	2.8	9.0	20	1/2	0	1600	0/100	-	31.0					2090																																															
July 8	9500	13.0	44	2.8	9.0	20	1/2	0	1600	0/100	-	24.3		No material used																																															
July 9		13.0	44	2.8	9.0	20	1/2	0	1600	0/100	-	24.3		No material used																																														
July 10	PB 7983	13.0	58	4.5	11.0	22	1/2	0	1700	0/100	-	33.0	106.000				2200		880		1100																																													
July 11	9418	13.0	45	3.0	9.5	18	1/4	0	1750	0/100	-	25.5					1540																				15	5 7/8	smith T-2	open	1 1/2	drilled 1" CMT			5	5	I	720	3000		1260				7	45	
July 12-15		13.0	45	4.5	9.5	20	1/4	0	1750	0/100	-	25.3			Testing	No material used																																																		
											TOTAL		1,699,193	16885	0	8470	10340	81730	8070	3410	1375	1100	2400	16995	27845	220	550																																													