

D. Mud Program

Initial drilling from the sea floor to 1387 feet was with sea water and gel. Below the 20 inch casing shoe (1343 feet), a fresh water spersene XP-20 mud system was used, with mud weights ranging from 9.6 to 10 ppg.

ESSO EXPLORATION NORWAY, INC.

FLUID PROPERTIES

WELL 17/9-1 re

Date 1974	Depth	Mud Wt.	Vis	P.V.	YP	Gels. 0/10	W.L.	F.C. 32nds	PH	Alk.	Ca	Cl.	Volume - %		Hi - Temp F.L.	FlowLine Temp	C.B.C.
													Oil	Sand Solids			
22 May		12.3		13	12	2/19	7.8		10.5	1.0	80	6500	NR	16			
23	9300	11.4		16	14	2/15	6.6		9.5	0.3	45	2400	3/4	16	14.2		
24	9387	11.4		16	17	2/14	6.4		9.5	0.3	40	2200	3/4	14			
25	9458	11.2		13	12	3/14	7.0		10.0	0.3	40	2400	1/2	14	14.4		
26	9610	11.1		14	11	2/10	6.6		9.5	0.3	40	2500	1/4	13	9.3/12.5	→ 120° 200 psi = 6500 psi	
27	9738	11.2		14	10	2/15	7.2		9.5	0.4	40	2500	1/4	12	10.1/13.6		
28	9855	11.4		14	10	2/16	6.2		9.5	0.35	40	2500	1/4	14	11.5/15.0		
29	9859	11.3		12	8	2/14	6.4		9.0	0.1	60	2700	1/4	13	12 @ 200° F + 5000 psi		
30	9993	11.4		13	7	2/14	5.8		11	1.1	60	2600	1/4	11	15 @ 200° F + 5000 psi		
31	10082	11.4		10	9	2/20	5.4		10.5	0.9	NR	2600	1/4	11	19		28
1 June	10112	11.4		11	10	2/13	5.2		10	0.8	60	2750	1/4	12	20		28
2	10266	11.3		11	8	2/13	NR		10.1	0.7	120	2200	1/4	11	20.4		28
3	10373	11.4		10	6	2/12	NR		10	0.8	80	2200	1/3	11	15.1/17.6	→ 1120° 200 psi = 5000 psi	28
4	TD	logging		- not reported													
5	TD	11.4		11	8	2/17	6.2		10	0.8	60	2500	1/4	11	NR		
6	PA	- not reported															

WELL: 17/9-1 re

MUD ADDITIONS

1974 DATE	DEPTH	Barite	Quartzite	Spersane	XP-20	Caustic	REMARKS
21 May	-	1000					350 bbl drill water
22							
23	9300	1000	160	28	5		560 bbl drill water
24	9387	200		12	4		← discrepancy between stock change and mtl used - values reported are same as mtl used
25	9458	180			2		
26	9610	80		6	1		
27	9738	40			2		
28	9855	150		5	1		
29	9859	NONE					
30	9998	80	23	31	8		← 20 kg 50 kg gel + 6 kg 25 kg gel
31	10082	90	3 1/2	4	1		← 7 kg of 25 kg gel - no XP-20 used - morning report is incorrect
1 June	10112	80	160				
2	10266	80		34	11		spersane and caustic to prehyd. gel
3	10373	60		14	2		
4	✓	none used					
5	✓						
6	✓			4			
TOTALS		3040	346 1/2	138	0	37	