



# DAILY MUD PROPERTIES

Well: Statoil, 30/3-1

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1982 DATE	Meters DEPTH	WT	VIS		CORR. 115°F		GELS		pH	FLUID LOSS		CL CACL <input type="checkbox"/> NACL <input type="checkbox"/>	ALKALINITY				RETORT			V.G. METER READING @ 115°						Bbl CEC	US\$ TOTAL MUD COST
			SEC.	PV	YP	0	10	BECKMANN STRIP <input type="checkbox"/>		100 PSI API	500 PSI 300°F HT-HP		PF	PM	MF	CA ppm	% OIL	% SOL	% WATER	600 R.P.M.	300 R.P.M.	200 R.P.M.	100 R.P.M.	6 R.P.M.	3 R.P.M.		
26.01		1.95	54	36	12	838	11.5	10.0		13000	1.1	3.0														53443.70	
27.01		1.95	54	36	11	827	11.5	10.0		13000	1.2	3.1														75330.59	
28.01		1.95	50	28	8	312	11.2	6.8		13000	1.0	2.8	2.1	120												75330.55	
29.01		1.95	49	28	7	311	11.0	5.8		13000	0.9	2.6	2.4	120												75330.55	
30.01		1.95	48	28	7	310	10.8	5.4		13000	0.9	2.4	2.2	120												75330.55	
31.01		1.95	48	28	7	310	10.8	5.4		13000	0.9	2.4	2.2	120												75330.55	
01.02		1.93	55	24	16	762	11.9	6.4		12000	3.0	11.4	4.5	160	30	70									correction*	67365.67	
02.02		1.93	66	26	24	1888	11.9	6.8		12000	4.0	15.0	6.0	80	31	69										72038.77	
03.02		1.95	53	26	10	336	11.7	8.0		13000	4.0	15.6	6.0	80	30	70										78298.68	
04.02		1.95	60	28	10	336	11.8	7.8		13000	4.0	15.0	5.8	80	30	70										90663.68	
05.02		1.95	53	26	8	326	11.6	7.6		12000	3.2	14.0	5.3	80	30	70										92492.98	
06.02		1.95	51	26	7	222	11.7	7.5		13000	3.0	13.6	5.3	80	31	69										94124.68	
07.02		1.95	54	25	8	222	11.7	7.6		12000	2.3	13.2	4.6	80	31	69										99605.14	
08.02		1.95	53	25	8	223	11.7	7.6		12000	2.3	13.4	4.6	80	31	69										07631.48	
09.02		1.95	66	29	14	2252	11.5	7.2		12000	1.7	9.2	3.6	120	31	69										13380.02	
10.02		1.95	60	28	14	22110	11.5	8.0		10000	1.9	10.2	3.8	80	31	69										17369.36	
11.02		1.95	63	30	11	2561	11.0	6.5		10000	1.9	9.8	3.7	80	31	69										18149.30	
12.02		1.95	65	25	11	1860	11.0	6.8		10000	1.7	8.0	3.7	90	30	70										18149.30	
13.02		1.95	68	27	12	2059	11.0	6.8		10000	1.7	7.9	3.7	90	30	70										24635.30	
14.02		1.95	82	38	18	2470	11.5	6.5		10000	1.8	7.0	3.8	90	31	69										31942.02	
15.02		1.95	81	37	16	2465	11.5	6.3		10000	1.1	7.0	2.3	140	30	70										32651.82	
16.02		1.95	78	38	16	2058	11.5	6.3		11000	1.4	7.0	2.7	140	30	70										34192.70	
17.02		1.95	84	40	16	1753	11.3	6.2		11000	1.3	7.4	2.7	140	31	69										36038.18	
18.02		1.95	84	41	16	1751	11.3	6.2		11000	1.1	5.6	2.9	140	31	69										41447.22	
19.02		1.95	87	39	16	1748	11.3	6.5		12000	1.1	5.6	2.8	150	31	69										55224.46	
20.02		1.95	69	33	16	1646	11.3	6.5		14000	1.1	4.8	3.3	170	28	72										65209.97	
21.02		1.95	72	32	16	1645	11.3	6.3		14000	1.1	5.2	3.3	160	28	72										81920.46	
22.02		1.95	64	34	15	1746	11.4	6.3		14500	1.1	4.2	3.7	150	28	72										97340.35	

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1982 DATE	Meters DEPTH	WT	VIS		CORR. 115°F		GELS		pH	FLUID LOSS		CL <input checked="" type="checkbox"/> CACL <input type="checkbox"/> NACL <input type="checkbox"/>	ALKALINITY			RETORT			V.G. METER READING @ 115°						Bbl CEC	US\$ TOTAL MUD COST			
			SEC	PV	YP	0	10	BECK <input checked="" type="checkbox"/> STRIP <input type="checkbox"/>		100 PSI API	600 PSI 300°F HT-HP		PF	PM	MF	CA ppm	% OIL	% SOL	% WATER	600 R.P.M.	300 R.P.M.	200 R.P.M.	100 R.P.M.	6 R.P.M.			3 R.P.M.		
23.02		1.95	64	34	15	17	46	11.5	6.3	35	14500	1.1	4.2	3.7	150	0	28	72											197340.35
24.02		1.95	67	32	13	11	39	11.2	6.3	35	14500	0.9	3.9	2.8	140	0	28	72											209383.62
25.02		1.95	54	30	8	7	32	11.7	7.4	-	11000	1.6	5.2	3.8	80	0	30	70										210260.64	
26.02		1.95	55	29	8	5	28	11.5	7.2	36.6	8000	1.1	4.6	3.1	80	0	30	70							22.5		210260.64		
27.02		1.95	55	29	8	7	32	11.5	7.2	36.6	9000	1.1	4.5	3.0	80	0	30	70							22.0		210260.64		
28.02		1.95	57	29	9	7	34	11.3	7.8	39.6	8500	1.0	4.4	2.9	80	0	30	70							22.0		211126.86		
01.03		1.95	54	28	8	7	36	11.6	8.2	38.8	9000	1.2	4.8	3.4	80	0	30	70							22.0		211126.86		
02.03		1.95	68	35	8	3	28	11.0	10.0	37	9000	1.4	8.5	3.4	120	0	32	68							20.0		216018.08		
03.03		1.95	65	33	7	3	23	11.6	9.2	36.2	9000	3.8	13.5	6.5	80	0	32	68							20.0		216403.48		
04.03		1.94	98	42	9	4	24	11.3	3.0	19.0	9000	2.0	10.4	4.2	120	0	32	68							21.0		218829.16		
05.03		1.95	92	40	19	11	48	12.4	5.4	36.8	9000	2.6	12.0	5.6	80	0	32	68							21.0		224546.77		
06.03		1.95	72	34	9	5	33	12.2	3.6	36.2	9000	1.6	13.2	5.8	TR	0	32	68							21.0		227188.49		
07.03		1.95	93	41	22	11	52	12.3	6.0	38.8	11000	2.0	11.0	5.0	TR	0	33	67							21.0		227240.75		
08.03	3796	1.95	56	28	8	3	18	12.2	2.6	-	12000	2.0	9.4	5.0	TR	0	31	69							18.0		247195.06		
09.03	3825	1.95	68	28	7	3	18	12.2	2.0	18	12000	2.0	11.8	5.0	TR	0	31	69							18.0		249199.90		
10.03	3825	1.95	52	21	7	4	42	11.7	4.6	28.4	12000	1.0	9.5	3.0	TR	0	31	69							19.0		253564.75		
11.03	3863	1.95	59	30	8	6	19	11.7	3.0	25	12000	1.4	4.5	3.8	TR	0	31	69							18.5		255846.25		
12.03	3881	1.95	62	31	8	6	19	11.7	3.0	25	12000	1.3	4.3	4.2	TR	0	32	68							17.0		257735.29		
13.03	3945	1.95	68	30	12	7	20	11.7	2.9	15	13500	0.9	3.7	4.0	200	0	31	69							16.0		259273.27		
14.03	3970	1.94	62	32	11	7	28	11.7	2.7	13	13500	0.8	3.8	3.8	190	0	30	70							16.0		265902.87		
15.03	3970	1.94	62	32	11	7	28	11.7	2.7	13	13500	0.8	3.8	3.8	190	0	30	70							16.0		265902.87		
16.03	3970	1.94	88	34	13	9	30	11.1	2.8	13	14000	0.3	3.9	8.7	290	0	30	70							16.5		267209.47		
17.03	3970	1.90	50	29	8	5	17	11.4	2.7	14	14500	1.6	3.1	3.8	200	0	29	71							15.0		277006.10		
18.03	3970	1.90	60	29	8	5	24	11.4	2.2	14	14500	1.6	3.1	3.8	200	0	29	71							17.5		279405.92		
19.03	4000	1.90	60	27	8	4	18	11.4	2.3	12	14500	1.6	3.2	3.8	220	0	30	70							19.0		285028.24		
20.03	4030	1.90	64	27	8	4	18	11.4	2.5	11	12700	1.4	3.2	3.8	195	0	30	70							19.0		286253.38		
21.03	4067	1.90	64	28	8	4	19	11.4	2.8	12	12800	1.4	3.2	3.9	200	0	30	70							18.5		286459.03		
22.03	4107	1.90	68	30	8	5	20	11.4	2.6	9	12900	1.3	3.2	4.5	185	0	31	69							18.0		286459.03		

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1982 DATE	Meters DEPTH	WT.	VIS		CORR. 115°F		GELS		pH		FLUID LOSS		CL <input checked="" type="checkbox"/>		ALKALINITY				RETORT			V.G. METER READING @ 115°						Bbl CEC	US\$ TOTAL MUD COST
			SEC.	PV	YP	0	10	BECK <input checked="" type="checkbox"/> STRIP <input type="checkbox"/>	100 PSI API	500 PSI 300°F HT-HP	CACL <input type="checkbox"/>	NACL <input type="checkbox"/>	PF	PM	MF	CA ppm	% OIL	% SOL	% WATER	500 R.P.M.	300 R.P.M.	200 R.P.M.	100 R.P.M.	6 R.P.M.	3 R.P.M.				
23.03	4137	1.90	65	32	9	6	20	11.2	2.6	9.0	12700	1.1	3.1	4.5	180	0	30	70							18.0	291110.88			
24.03	4174	1.90	67	30	9	6	25	11.2	2.6	9.0	13500	1.2	3.1	4.2	170	0	31	69							17.5	294467.02			
25.03	4190	1.90	70	30	10	6	24	11.0	2.6	10.0	13500	1.0	2.9	3.6	180	0	30	70	70	40	29	19	10	5	18.0	295602.70			
26.03	4220	1.90	74	32	12	7	30	10.9	3.0	10.0	13500	1.2	3.2	3.2	180	0	30	70	76	44	31	19	7	3	17.0	297199.05			
27.03	4258	1.90	63	33	14	5	15	11.0	2.4	9.0	13500	1.1	2.6	2.8	200	0	30	70	80	47	34	20	4	3	21.0	303134.66			
28.03	4312	1.90	70	38	14	7	20	10.8	3.0	9.8	13000	1.0	2.8	2.8	180	0	30	70	90	52	44	26	4	3	22.5	317559.62			
29.03	4328	1.90	73	29	18	5	22	11.9	2.8	9.2	13500	2.1	3.8	3.9	220	0	30	70	78	50	38	25	4	3	21.0	327092.44			
30.03	4348	1.90	62	26	11	5	18	11.6	2.6	9.0	12500	1.8	3.9	3.6	240	0	29	71	63	37	28	17	3	2	20.0	330196.95			
31.03	4378	1.90	58	25	10	4	15	11.2	2.6	9.2	11500	1.6	3.4	3.2	220	0	29	71	60	35	29	18	4	3	20.0	347149.52			
01.04	3618	1.90	62	30	18	6	22	11.8	2.8	9.0	13000	1.8	4.2	3.6	240	4	30	66	78	48	36	24	4	3	22.0	360248.24			
02.04	4347	1.90	72	32	14	5	20	11.6	3.2	9.6	13000	1.6	3.8	3.2	260	5	30	65	78	46	32	20	3	2	22.5	362519.60			
03.04	4347	1.90	75	32	16	6	30	11.5	3.0	9.2	13000	1.6	3.8	3.2	260	5	30	65	80	48	34	21	4	3	22.5	362519.60			
04.04	4347	1.91	67	32	12	6	16	11.8	1.9	8.6	12500	2.1	4.2	4.0	240	5	32	53	76	44	31	17	3	2	22.5	367560.81			
05.04	4347	1.91	64	30	12	5	19	11.7	1.9	8.9	12500	2.0	4.0	3.8	240	5	31	64	72	42	29	16	3	2	22.5	372554.05			
06.04	4347	1.92	72	30	12	5	21	11.6	2.4	8.0	12500	2.2	4.2	3.4	200	4	30	66	72	42	30	18	3	2	22.5	377949.53			
07.04	4378	1.92	70	33	12	5	20	11.2	2.6	9.0	13000	1.4	3.8	3.8	200	4	31	65	78	45	33	20	3	2	22.5	379236.17			
08.04	4415	1.92	78	33	12	8	30	11.1	2.4	9.0	13000	1.4	3.4	4.0	200	4	30	66							22.5	382365.52			
09.04	4421	1.92	98	35	14	8	31	11.0	2.2	9.0	12800	1.1	3.0	4.2	190	6	31	63							22.0	393483.09			
10.04	4421	1.92	69	30	11	5	17	11.2	2.0	9.1	12800	1.3	3.1	4.1	190	4	30	66	71	41	30	16	3	2	22.0	397883.55			
11.04	4421	1.92	68	30	11	5	17	11.2	2.0	9.0	12800	1.3	3.1	4.1	195	4	30	66	71	41	30	16	3	2	21.5	397883.55			
12.04	4421	1.92	71	30	11	5	18	11.2	2.1	9.0	12800	1.3	3.1	4.1	195	4	30	66	71	41	30	16	3	2	21.5	403845.87			
13.04	4421	1.92	74	30	12	6	20	11.3	2.2	9.2	12800	1.3	3.1	3.9	195	4	30	66							21.5	404364.30			
14.04	4421	1.92	62	29	11	6	18	11.3	2.1	9.2	13700	1.3	3.1	3.8	195	3	30	67							22.0	412229.10			
15.04	4421	1.96	68	30	9	5	20	11.2	2.8	9.4	14900	1.3	3.1	3.6	210	2	31	67							20.5	422111.76			
16.04	4421	1.96	68	31	10	7	22	11.2	2.7	9.4	15000	1.3	3.1	3.9	210	2	31	67							20.5	422450.72			
17.04	4421	1.96	64	30	10	7	24	11.4	2.6	10.1	14500	1.8	4.9	4.3	220	3	30	67							20.5	422571.77			
18.04	4421	1.96	64	29	10	6	22	11.3	2.7	10.0	14800	1.8	5.0	4.7	210	3	30	67							19.8	423175.36			
19.04	4421	1.80	52	23	7	5	19	11.2	6.0	-	12000	1.8	4.9	4.3	150	2	28	70							17.1	427466.21			

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# DAILY MATERIALS CONSUMPTION

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DATE 1982	DEPTH Meters	Barite	Bentonite	Caustic Soda	Soda Ash	Lime	Drispac	Spersene	XP - 20	Resinex	Nut Plug Coarse	Nut Plug Fine	Mica Fine	Mica Coarse	DAILY MUD COST US\$	REMARKS
27.01		300	17.5	54		6		141	55						53443.70	Mix 1800 bbls.
28.01		150					5	5	2						21886.85	Weight up + repairs.
29.01															-	Rig up.
30.01															-	Rig up.
31.01															-	Rig up.
01.02		19			4										2784.16	Drill plug no. 1 + 2.
02.02		32			6										4673.10	Drill plug no. 3
03.02		28	2.5	2	2			30	20						6259.91	RIH to 3680. Circ B/U 10% gas. Dump old mud.
04.02		81	2	2	2										12365.00	Drill shoe string dropped fishing Mix no.4 at 1.95 + no.3 gel.
05.02									10	20					1829.30	
06.02		6	2												1631.70	RIH + circ 10% gas. No go with fish. RIH with o/shot.
07.02		38		2	2										5480.46	No fish. RIH In B. Weighted up gel & add to active Mud stage 2.02 kill.
08.02		45	4					4							8026.32	Rig up to log. Mix 14m <sup>3</sup> Q mix as instructed.
09.02		35	2												5748.54	Log & run gyro. Test BOP. RIHOE Weight up Q-mix & add to active. Set plug.
10.02		22	2	2	2										3989.34	Pipe stuck in cmt. Run free pt.
11.02			2												779.94	Pipe stuck. Run free point.
12.02															-	Pipe stuck. Run free point.
13.02		50						12							7332.72	Pipe stuck. Running Schlumberge
14.02		43		2	2		1	4							6460.00	Washing over cement.
15.02		5													709.80	" " "
16.02		4	2		1			6	1						1540.88	Drilling cement.
17.02		12													1845.48	Milling on casing.
18.02		29	2	6			2								5409.04	" " "

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DATE 1982	DEPTH Meters	Barite	Bentonite	Caustic Soda	Soda Ash	Lime	Drispac	Spersene	XP-20	Resinex	Nut Plug Coarse	Nut Plug Fine	Mica Fine	Mica C	CaCl <sub>2</sub>	DAILY MUD COST US\$	REMARKS
19.02		65	7	10		1	1	10	2		25	25	10			13777.24	G. sealing formation.
20.02		38	3	8		2		4	1		40	40	40	40		9985.51	Milling 9-5/8" casing.
21.02		90	6	8				6	3		32	32				16710.49	-
22.02		80	7	8				7	2		20	20	10			-	-
23.02		66	4	7				35	10							-	Conditioned mud.
24.02						1		5	5							265.25	-
25.02				12				10	5							611.77	Reverse circ at interval. Lost mud formation + trip.
26.02																-	RIH set plug + POOH.
27.02																-	POOH WOC RIH
28.02			2	2	2											866.22	Circ. RIH with stinger. Set plug + POOH. Mix gel.
01.03																-	WOC RIH Tag at 3520m.
02.03								97	94							4891.22	Drill cmt c+c + POOH.
03.03	3680			18												385.38	Kick off + log to 3680m.
04.03	3685		2				4	14		8						2425.68	Drill to 3685m + POOH to re- trieve survey.
05.03	3703	26				11		35		14		6	6			5717.61	Co <sup>2</sup> +HCO cont Lost p. ret. 3696-940m <sup>3</sup>
06.03	3712	4						36		18						2641.72	Drill ahead.
07.03	3732					12										52.26	RIH leak-off 2.067 Mud still cont.
08.03	3796	80		25		10		101		80						12954.31	Drill ahead. Add 200 lb water + treat. Mud lost shaker + mud cleaner.
09.03	3824	14				4										2004.84	Drill ahead. Test BOP's POOH.
10.03	3824	28	1													4364.85	Hung off + WOW 20m <sup>3</sup> accident to 1 + 2. Treat same.
11.03	3863							20		25						2281.50	POOH to p/up core barrel.
12.03	3881	10						25								1889.04	Coring.
13.03	3945	4		11				21								1538.08	Drilling 8-1/2" hole.
14.03	3970	20		10				70	10	25					6	6629.50	" " "
15.03	3970															-	Laying down D.P.

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DATE 1982	DEPTH Meters	Barite	Bentonite	Caustic Soda	Soda Ash	Lime	Drispac	Spersene	XP - 20	Resinex	Pipe Lax	CaCl <sub>2</sub>			DAILY MUD COST US\$	REMARKS
16.03	3970			10				20	22						1306.60	RIH.
17.03	3970	44	6	46											9796.63	Circ to log
18.03	3970	16		6								2			2399.82	Logging and test BOP's
19.03	4000	16		10				2		40					5622.32	Drilling 8-1/2" hole.
20.03	4030					1	2	4		10					1225.14	" " "
21.03	4067			6				2				1			205.65	" " "
22.03	4107	3		4				23	21	40					4651.85	Drilling 8-1/2" hole & POOH.
23.03	4137														-	RIH. Drilling 8-1/2" hole
24.03	4174	7		10					20	20					3356.22	Drilling 8-1/2" hole.
25.03	4190	8													1135.68	Trip. Test BOP.
26.03	4220			10		3		70							1596.35	Drill ahead.
27.03	4258	28		15				48	22						5935.61	Trip and drill ahead.
28.03	4312	80	4	8				58	8						14422.96	Mix Hi-vis pill. Drill ahead.
29.03	4328	29	2	66				103	38						9534.82	Drill ahead. Treat active while trip.
30.03	4348	7	2	5				30	20						3104.51	Drill ahead - trip.
31.03	4378	102	1	4							2				16952.57	Stuck in hole at 4344m. Mix pipe lax.
01.04	3618	36									8				13098.72	Mix IMCO spot + Pipe lax. Pipe free.
02.04	4347	16													2271.36	Condition for logging.
03.04	4347														-	Logging.
04.04	4347	15		11				48		25					5041.21	Cond mud. Raise mud wt. to 1.91.
05.04	4347	28	2	2				10							4993.24	Mix up pit no.4 40m <sup>3</sup>
06.04	4347	38													5394.48	Raise mud wt. to 1.92.
07.04	4347	9													1277.64	Drill and trip.
08.04	4415			15				50	10	20					3129.35	Drill 8-1/2" hole.
09.04	4421	22		4				15	5	10	8				12405.21	Stuck at 4421. Mix pipe lax & IMCO pill.
10.04	4421	20		18				40	20						5400.46	Reaming tight hole. POOH.
11.04	4421														-	Running logs.

