



DAILY MUD PROPERTIES

Well: B.P. Norway 16/8 - 2

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DATE	DEPTH	WT.	VIS	CORR. 115°F		GELS	pH	FLUID LOSS		CL <input checked="" type="checkbox"/>	ALKALINITY		RETORT			V.G. METER READING @ 115°						Bbl	Excess Gyp ppb	TOTAL MUD COST				
				PV	YP			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	600 R.P.M.	300 R.P.M.				200 R.P.M.	100 R.P.M.	6 R.P.M.	3 R.P.M.
2-4	0	1.08	100+			Spud mud																						2,195.18
3-4	172	1.08	100+																									3,993.82
4-4	182	1.08	100+																									4,020.74
5-4	175	1.08	100+																									5,208.99
6-4	185	1.08	100+																									5,746.05
7-4	410	1.08	100+																									6,632.05
8-4	440	1.08	100+																									8,709.28
9-4	542	1.08	100+																									9,085.11
10-4	540	1.02	35			Recovered hi vis mud from hole																						9,085.11
11-4	540	1.10	35	9	5	1	2	10.5	24.2		14000	2.60	6.20		680						23	14				22.5	5.00	14,613.16
12-4	540	1.11	32	7	4	2	8	10.5	23.6		12500	2.00	5.60	3.6	760			5	95	18	11				12.5	6.20	17,686.01	
13-4	818	1.13	33	7	5	2	8	10.8	18.4		20000	0.30	3.80	0.8	080			7	93	19	12				13.7	5.80	25,371.72	
14-4	1083	1.15	35	8	3	1	4	10.5	6.0		21000	0.30	2.20	1.0	240			6	94	19	11				17.5	4.80	36,227.11	
15-4	1383	1.27	40	15	7	5	32	9.9	8.4		20500	0.10	1.20	0.6	2800			11	89	37	22				20.0	4.60	44,602.15	
16-4	1592	1.29	50	15	13	3	30	10.9	12.2		20000	0.35	1.10	2.0	2600			13	87	43	28				25.0	4.50	57,933.63	
17-4	1705	1.35	51	20	15	3	32	10.7	12.6		20000	0.55	1.20	2.0	1880			15	85	55	35				30.0	3.50	65,138.40	
18-4	1705	1.38	49	15	15	3	30	10.7	13.0		20000	0.50	1.20	1.6	1920			16	84	45	30				30.0	3.50	69,268.33	
19-4	1705	1.38	53	16	17	3	32	10.7	13.0		20000	0.40	1.25	1.5	2000			16	84	49	33				32.0	3.50	72,949.00	
20-4	1705	1.38	53	16	17	3	32	10.7	13.0		20000	0.40	1.25	1.5	2000			16	84	49	33				32.0	3.50	72,949.00	
21-4	1705	1.38	49	15	15	3	30	10.7	13.0		20000	0.40	1.25	1.5	2000			16	84	45	30				32.0	3.50	75,960.59	
22-4	1705	1.37	49	16	14	3	32	10.6	13.4		20000	0.35	1.30	1.0	1880			16	84	46	30				32.0	3.50	77,051.64	
23-4	1705	1.40	54	17	15	4	36	10.7	13.6		20000	0.40	1.40	1.2	1880			17	83	49	32				32.5	3.00	80,738.73	
24-4	1705	1.42	64	24	24	10	46	10.4	10.6		22000	0.15	1.20	1.4	1880			18	82	72	48				30.0	4.57	83,746.05	
25-4	1696	1.38	48	18	21	11	41	11.6	20.0		22000	0.70	6.00	1.6	2160			17	83	57	41				30.0	4.30	85,130.35	
26-4	1696	1.38	48	18	21	11	41	11.6	20.0		22000	0.70	6.00	1.6	2160			17	83	57	41				30.0	4.30	86,014.70	
27-4	1696	1.38	48	18	21	11	41	11.6	20.0		22000	0.70	6.00	1.6	2160			17	83	57	41				30.0	4.30		
28-4	1706	1.36	48	20	13	9	43	11.7	15.2		22000	0.80	5.20	1.9	2000			17	83	53	33				30.0	4.30	88,952.11	
29-4	1830	1.40	45	22	10	11	38	10.4	10.2		19000	0.20	1.50	1.2	2520			17	83	54	32				32.5	4.80	98,513.70	

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DATE	DEPTH	WT.	VIS SEC.	CORR. 115°F		GELS		pH	FLUID LOSS		CL X] <input type="checkbox"/>	ALKALINITY				RETORT			V.G. METER READING @ 115°						Bbl ppb	Excess Gyp	\$ TOTAL MUD COST							
				PV	YP	0	10		100 PSI API	500 PSI 300°F HT-HP		CA NACL <input type="checkbox"/>	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.				Mg++ 3 R.P.M.	CEC					
30-4	1884	1.40	44	15	12	2	29	10.6	9.8		20000	.20	1.2	.20	1920	17	83	42	27						30	4.5	102987.77							
1-5	1982	1.40	47	18	12	3	29	10.7	9.8		20000	.50	1.8	.50	2000	17	83	48	30						30	4.5	105708.09							
2-5	2042	1.41	48	21	14	3	32	10.7	9.8		20000	.50	2.1	.70	1920	17	83	56	35						30	4.0	109418.70							
3-5	2073	1.40	46	21	13	3	32	10.8	9.6		20000	.50	2.0	.65	1920	17	83	55	34						30	4.0	111512.42							
4-5	2155	1.41	49	22	13	3	32	10.6	9.0		20500	.40	2.0	.70	1920	18	82	57	35						35	>3.0	117378.28							
5-5	2233	1.42	46	24	11	3	28	10.7	8.8		20500	.45	2.1	.75	1640	20	80	59	35						35	>3.0	112041.84							
6-5	2233	1.42	49	23	11	3	28	10.6	8.6		20500	.40	2.1	.75	1760	20	80	57	34						35	>3.0	112766.52							
7-5	2267	1.45	47	24	12	10	35	10.7	7.6		24000	.50	1.7	2.00	1960	18	58	560	36						35	7.87	130830.90							
8-5	2279	1.45	52	26	13	10	32	9.8	7.6		24000	.15	0.80	1.30	2080	18	58	565	39						32.5	7.5	131581.80							
9-5	2288	1.45	54	24	17	11	43	9.6	6.8		25000	.10	0.70	1.20	2040	18	58	565	41						32.5	7.5	130759.75							
10-5	2275	1.45	54	24	17	11	43	9.6	6.8		25000	.10	0.70	1.20	2040	18	58	565	41						32.5	7.5	131207.29							
11-5	2275	1.45	MIXING NEW SYSTEM				- SALT SATURATED																											136543.27
12-5	2380	1.45	45	28	5	2	6	10.0	6.4		152000	TR	1.00		1520	7	592	561	33						15.0		168330.67							
13-5	2507	1.45	42	26	6	2	8	9.9	8.6		160000	.20	0.90		1600	11	089	058	32						15.0		176300.83							
14-5	2507	1.45	43	14	4	1	15	9.6	5.8		168000	.10			1400	11	089	032	18						15.0		179502.27							
15-5	2507	1.45	43	13	4	1	8	9.8	6.2		181000	.15	0.90	0.90	920	10	090	030	17						15.0		185796.0							
16-5	2724	1.45	47	24	8	1	6	10.6	2.4		188000	.40	1.75	0.70	920	10	090	056	32						15.0		191380.77							
17-5	2810	1.45	46	25	6	1	6	10.2	10.6		182000	.20	1.40	0.60	1200	10	090	056	31						17.0		192551.60							
18-5	3065	1.45	43	19	5	2	5	10.5	10.2		189000	.30	1.20	0.70	600	11	089	043	24						17.0		199416.93							
19-5	3161	1.45	51	24	11	2	5	10.8	8.8		189000	.55	2.10	1.00	400	11	089	059	35						20.0		208725.62							
20-5	3236	1.45	46	29	10	2	6	11.0	8.2		190000	.55	2.15	1.15	400	11	089	068	39						20.0		208856.39							
21-5	3356	1.45	52	38	14	3	5	11.7	6.2		185000	.60	3.15	1.20	320	11	089	090	52						20.0		216376.17							
22-5	3442	1.45	46	35	6	2	5	11.6	7.2		190000	.60	3.15	1.20	280	11	089	076	41						20.0		220113.54							
23-5	3442	1.45	46	34	5	2	5	11.6	7.8		190000	.50	3.00	1.10	280	11	089	073	39						20.0		220386.78							
24-5	3519	1.46	46	30	4	7	23	9.0	4.2		190000	.10	1.00	0.30	1200	10	090	064	34					4860	15.0	229963.09								
25-5	3519	1.45	49	31	2	3	7	7.8	3.0		190000	TR	0.30		1260	10	090	064	33					14800	15.0	237620.99								
26-5	3519	1.80	71	44	26	31	70	7.2	50+		179000		0.30		1260	10	090	0114	70					16600	4.0	263120.10								
27-5	3519	1.83	72	76	18	13	23	7.2	52.0		188000		0.30		1220	11	089	0170	94					18000	15.0	281050.84								

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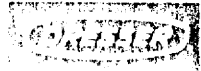
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DATE	DEPTH	WT.	VIS SEC	CORR. 115°F		GELS		pH	FLUID LOSS		CL API	CA ppm	ALKALINITY			RETORT			V.G. METER READING @ 115°						Total Hardness	TOTAL MUD COST		
				PV	YP	0	10		100 PSI HT-HP	500 PSI 300°F			CACL	NACL	PF	PM	MF	% OIL	% SOL	% WATER	600 R.P.M.	300 R.P.M.	200 R.P.M.	100 R.P.M.			6 R.P.M.	3 R.P.M.
28-5	3519	1.77	105	92	28	9	13	6.1	24.2		210000	7200				26	74	212	120							5	136000	306818.81
29-5	3519	1.86	80	75	30	7	13	5.1	28.0		232000	3600				29	71	180	105							5	112000	31270.94
30-5	3519	1.86	76	76	5	4	8	4.5	49.2		300000	2400				28	72	157	81				114000		2.5	140000	345237.82	
31-5	3519	2.02	76	97	21	5	10	4.1	49.6		302000	12000				32	68	215	118				116000		2.5	210000	363398.46	
1-6	3519	2.03	85	98	17	4	9	4.1	52.0		330000	1000				32	68	213	115				95000		2.5	160000	371366.06	
2-6	3519	2.03	71	96	17	5	10	4.7	38.0		302000	2800				32	68	209	113				72000		2.5	120000	384117.26	
3-6	3519	2.03	74	82	12	3	10	4.5	19.8		290000	2800				32	68	176	94				72400		2.5	122000	390231.97	
4-6	3519	2.04	74	94	16	3	10	4.6	14.2		285000	10000				32	68	204	110				63000		2.5	106000	393809.32	
5-6	3519	2.03	71	88	17	3	8	5.2	10.8		290000	5000				32	68	193	105				64000		2.5	110000	397893.56	
6-6	3519	2.03	79	86	19	3	9	5.1	10.2		295000	5000				32	68	191	105				55400		2.5	96000	399841.88	
7-6	3519	2.03	79	89	12	3	10	5.1	9.2		290000	5500				32	68	190	101				60000		2.5	100000	399841.88	
8-6	3519	2.03	74	76	14	3	8	4.9	8.4		290000	10500				32	68	166	90				97200		2.5	169000	406501.88	
9-6	3519	2.03	72	71	14	3	9	5.3	8.4		290000	10500				32	68	156	85				97200		2.5	169000	413447.68	
10-6	3519	2.03	65	66	22	5	9	5.9	4.0		245000	8000				32	68	154	88				82600		2.5	144000	431875.88	
11-6	3519	2.04	83	67	17	5	8	5.5	2.4		270000	7200				32	68						85000		2.5	147000	437414.58	
12-6	3519	2.05	86	71	23	10	5	5.7	8.6		255000	7800				33	67						59700		TR	106000	437414.58	
13-6	3519	2.02	63	59	15	6	1	5.5	0.4		265000	7200				32	68						61100		TR	108400	445189.12	
14-6	3519	2.04	65	59	15	6	1	5.7	9.2		265000	7600				33	67						61000		TR	108400	445830.64	
15-6	3519	2.04	74	63	16	6	2	5.6	9.2		265000	7600				33	67						61000		TR	108400	451718.14	
16-6	3519	2.04	72	61	14	6	2	5.8	1.2		230000	5200				33	67						42500		TR	72000	465158.80	
17-6	3519	2.05	63	58	14	5	0	5.6	1.6		260000	7200				33	67						57000		TR	106200	465847.84	
18-6	2500	2.04	57	52	24	7	2	6.0	1.8		256000	7400				33	67	128	76				58000		TR	108000	469328.32	
19-6	2500	1.83	51	39	26	5	1	6.7	2.2		204000	8000				27	73	104	65				47000		1+	72000	475210.22	
20-6	2435	1.83	47	39	17	4	1	7.2	2.0		200000	11200				27	73	95	56				37000		1+	72000	475623.71	
21-6	2500	1.82	51	38	25	5	4	7.2	2.6		200000	12800				27	73	101	63				28000		1+	58000	477230.56	
22-6	2625	1.81	46	34	20	4	0	7.0	0.0		200000	12800				27	73	88	54				28000		1.5	58000	480772.20	
23-6	2625	1.87	45	35	21	4	9	7.1	0.8		200000	15200				29	71	91	56				29600		1.5	64000	485940.00	
24-6	2450	1.88	53	38	22	4	0	7.4	0.4		200000	14000				29	71	98	60				24300		1.5	54000	489242.08	

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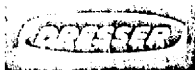
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DATE	DEPTH	WT.	VIS SEC.	CORR. 115°F		GELS		pH	FLUID LOSS 100 PSI API	CL % CACL ppm NACL	ALKALINITY			RETORT			V.G. METER READING @ 115°						1bs Bbl	Mg	TOTAL MUD COST	
				PV	YP	0	10				BECK STRIP meter	500 PSI 300°F HT-HP	PF	PM	MF	CA ppm	% OIL	% SOL	% WATER	600 R.P.M.	300 R.P.M.	200 R.P.M.				100 R.P.M.
25-6	2451	1.86	50	37	16	6	11	7.0	9.8	190000	0.1	3.4	0.6	14500	29	71								7.5	24000	490667.68
26-6	2324	1.88	51	37	16	6	11	7.0	9.8	190000	TR	3.0	0.4	10600	29	71								5	23100	496512.11
27-6	2341	1.87	55	37	16	6	13	7.0	9.4	190000	TR	2.2	0.4	4280	29	71								5	21720	500102.56
28-6	2374	1.85	48	36	14	5	12	6.9	7.6	195000	TR	1.8	0.3	4400	28	72								5	20170	503162.88
29-6	2390	1.82	53	36	18	6	17	7.0	7.4	193000	-	1.8	0.2	4360	28	72								5	19200	505433.20
30-6	2593	1.82	55	39	18	6	17	7.0	9.2	194000	-	1.6	0.2	4200	28	72								5	19000	512162.46
1-7	2747	1.82	52	37	33	10	22	7.0	10.6	195000	-	0.7	0.2	1920	28	72								5	13410	522105.04
2-7	2947	1.83	52	36	20	7	18	6.9	8.0	178000	-	0.5	0.1	1560	28	72								2.5	13850	523077.80
3-7	3078.5	1.82	50	32	33	15	27	6.8	10.8	187000		0.4	0.1	4400	29	71								2.5	11100	536238.21
4-7	3163	1.82	52	31	32	17	32	6.8	14.2	195000		0.4	0.2	3520	29	71								2.5	9525	543892.21
5-7	3286	1.82	52	31	32	16	28	6.6	13.0	195000		0.1	0.1	6560	29	71								2.5	9620	557574.37
6-7	3337	1.82	52	36	32	15	27	6.4	8.6	195000		0.2	0.2	5600	28	72								2.5	12350	561716.41
7-7	3481	1.82	50	37	25	10	19	5.1	14.4	198000				13120	28	72								TR	24100	567334.08
8-7	3481	1.85	49	41	22	12	25	4.9	4.2	200000				14200	29	71								TR	34750	
9-7	3481	1.88	49	41	13	7	13	5.1	4.5	190000				23200	30	70								TR	34506	592091.53
10-7	3573	1.89	48	38	14	7	14	6.0	5.5	226000	-	-	-	16000	30	70								TR	26730	607757.82
11-7	3574	1.89	44	39	11	6	14	6.0	7.0	222000	-	-	-	15600	30	70								TR	34263	608315.59
12-7	3585	1.90	42	39	11	6	13	6.5	7.0	230000	-	-	-	16080	30	70								TR	27000	620658.44
13-7	3585	1.92	45	40	11	6	12	5.5	7.0	255000	-	-	-	16090	30	70								TR	31000	620650.44
14-7	3585	1.90	50	42	15	5	11	5.5	6.0	245000	-	-	-	17200	30	70								TR	28917	623562.17
15-7	3585	1.89	41	36	9	5	10	5.5	10.0	250000	-	-	-	16000	30	70								TR	36207	633705.61
16-7	3584	1.85	41	40	7	3	9	5.5	13.0	250000	-	-	-	16000	30	70								TR	36000	634937.19
17-7	3584	1.85	41	35	10	3	9	5.8	10.0	250000				17000	30	70								TR	30000	634937.19
18-7	3584	1.85	41	35	10	3	9	5.8	10.0	250000				17000	30	70								TR	30000	634937.19
19-7	3584	1.47	36	18	12	3	7	6.0	12.0	300000				13200	10	90								TR	19200	636801.72
20-7	3584	1.48	37	21	15	3	9	6.0	12.0	300000	-	-	-	13200	11	89								TR	19200	637127.72
21-7	3584	1.83	39	32	20	6	9	6.0	14.0	300000				13200	21	79								TR	19200	042753.75
22-7	3584	1.85	39	34	18	5	8	6.0	15.0	300000				13200	21	79								TR	19200	643333.29

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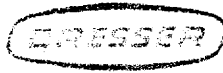


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DATE	DEPTH	WT.	SEC.	VIS		CORR. 115°F		GELS		pH	FLUID LOSS		CL <input type="checkbox"/>	ALKALINITY	RETORT			V.G. METER READING @ 115°						Bbl	TOTAL MUD COST	
				PV	YP	0	10	100 PSI API	500 PSI 300 °F HT-HP		CA ppm	% OIL			% SOL	% WATER	600 R.P.M.	300 R.P.M.	200 R.P.M.	100 R.P.M.	6 R.P.M.	3 R.P.M.	CEC			
23-7	3584	1.85	39	31	16	4	8	6	14.2	300000			18200		30	70	78	47						TR	19200	643333.29
24-7	3584	1.85	39	34	18	5	8	6	14.8	300000			18200		31	69	86	52						TR	19000	643333.29
25-7	3584	1.85	39	34	18	5	8	6	14.8	300000			18200		31	69	86	52						TR	19000	643333.29
26-7	3584	1.85	43	36	19	7	9	6	14.4	300000			18200		31	69	91	55						TR	19000	643659.29
27-7	3584	1.85	44	38	21	6	9	6	14.4	285000			12900		31	69	97	59						TR	18520	643659.29
28-7	3584	1.71	45	36	20	8	17	5.3	7.4	195000			25600		28	72	92	56						TR	6800	646269.14
29-7	3584	1.63	40	32	17	6	15	5.8	7.6	190000			23800		26	74	81	49						TR	6050	651034.26
30-7	3584	1.64	39	30	15	6	14	5.8	7.4	194000			24000		26	74	75	45						TR	34000	651034.26
31-7	3584	1.66	39	23	14	3	7	6.2	13.8	177000			14000		26	74	60	37						TR	21300	651034.26
1-8	3584	1.64	38	21	11	3	7	6.1	13.0	177000			14000		26	74	53	32						TR	21300	653802.30
2-8	3584	1.66	37	16	13	3	6	6.3	13.0	180000			11200		26	74	45	29						TR	25000	654776.46
3-8	3584	1.65	38	15	14	3	6	6.1	9.8	160000			11200		26	74	44	29						TR	17500	657054.04
4-8	3584	1.67	39	14	15	3	6	6.1	10.8	170000			10000		26	74	43	29						TR	18200	659664.59
5-8	3584	1.67	40	20	14	3	6	6.2	10.2	170000			10000		26	74	54	34						TR	18200	661771.49
6-8	3584	1.63	37	16	14	3	6	6.2	12.4	165000			10000		26	74	46	30						TR	18200	663876.69
7-8	3584	1.62	38	17	13	3	6	6.2	12.8	165000			9600		26	74	47	30						TR	17900	664351.89
8-8	3584	1.66	38																							666459.89
9-8	3584	1.62	38																							668091.29
10-8	3584																									669532.49



DRESSER NORWAY A.S.

DAILY MATERIALS CONSUMPTION



DAILY MATERIALS CONSUMPTION

WELL B.P. Norway 16/8 - 2

PAGE 1

DATE	DEPTH	Bentonite Mt	Bentonite Sx	Barite mt	Caustic	Lime sx	Gypsum Sx	Soda Ash	CMC LV	Spersene	Mica C	N.Plug C Sx	Macconol	Al.Stearat XP-20	D.D.- BP	DAILY MUD COST \$	REMARKS
2-4	0	3.3	75		6	3										2,195.18	Set temp. Guide base.Mixed spud mud
3-4	172	5.7			1	5										1,798.64	Spud in.Drl.w/seawater.Spotting mud.
4-4	182				1	2										26.92	Fill hole w/mud.Ran 30" csg.WOC
5-4	175	3.6			3	4		1								1,188.25	WOC.Running riser & BOPs
6-4	185										15	16				537.06	RIH.Drl. Lost returns.LCM & cement.
7-4	410	2.7			3	3										886.00	Drlg. ahead.Flush hole w/vis. s plugs.
8-4	440	6.4			4	4		2								2,077.23	Filled hole w/mud.POOH. WOW.RIH
9-4	542	1.2				1										375.83	Drl.d.to 542 m.Log.Run 18 7/8" csg
10-4	540																Run csg to 540m. CMT
11-4	540	5.0			50	6	90		18	120						5,528.05	Re-cmt.Run stack.Build Gyp.mud
12-4	540								55							3,072.85	Test stack,BOPs.Drill cmt.Displace mud.
13-4	818						12		66	199			1			7,685.71	Drill out.Leak off test.Drl. ahead.
14-4	1083	4.5		2.0	23		68		124	109						10,855.39	Drl.ahead. Condition mud.POOH.
15-4	1371			30.8	32		121		37	30			1			8,375.04	RIH w/new bit.Drl.ahead.
16-4	1592			53.2	61		115		66	114			1			14,215.83	RIH.Wiper trip.Drlg.ahead.
17-4	1705			46.4	35		20			75						7,204.77	Drlg.ahead to 17 1/2" hole.Circl.hole.Log.
18-4	1705			18.2	31		50			81						4,129.93	Logs could not pass 836m.RIH.Circl. Log 860m
19-4	1705			30.6						3						3,680.67	RIH&circl.Log to 1620m.WOW.
20-4	1705																WOW.
21-4	1705				33				-17				4			3,011.59	WOW
22-4	1705			6.8	7					11						1,055.00	Run stack & riser.RIH.Reaming.
23-4	1705			43.0	10					33						5,723.09	Circl.&cond.hole. POOH.
24-4	1705	8.0		77.5												1,007.32	Run 13 3/8" csg.Circl. & cmt.
25-4	1696	3.2								20						1,284.30	Cmt.Pull stack & BOP.
26-4	1696																Run stack & BOP.
27-4	1696																Malfunction on choke line-Stab in.
28-4	1706	0.7		14.5				5		60						2,937.45	Test BOPs.Drill DV&shoe
29-4	1830			35.6			72		42	94				48		9,561.64	Drill ahead.Mudstone & limestone
30-4	1884			11.8	17		20	6	28	40				21		4,473.98	Drlg. ahead. Trip for new bit. Drlg
1-5	1982			9.6	20					30			1			2,720.32	Drlg.ahead.Trip for new bit.
2-5	2042			5.5	15		25		8	30			1	5		3,710.61	Tripping. Drlg-ahead.

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DAILY MATERIALS CONSUMPTION

WELL B.P. Norway 16/8 - 2

PAGE 2

DATE	DEPTH	Bentonite Mt.	Bentonite Sx	Barite Mt.	Caustic Sx.	Lime Sx	Gypsum Sx	Soda Ash Sx	CMC LV Sx	Spersene Sx	Salt	Drispac Staflo	Magconol	DD - BP	XP-20 Sx	Al.stearat	DAILY MUD COST \$	REMARKS
3-5	2073			5.0	23		30		10	30							2,102.72	Drlg.ahead.Trip for new bit.
4-5	2155			14.6	27		35		25	60				2	15		5,865.85	Tripping.Drlg.ahead.
5-5	2233			17.3	29		25		15	60					15	1	4,663.56	Drlg.ahead.Tripping
6-5	2233			6.1													724.68	Tripping.Testing BOPs.
7-5	2267			27.7	18		30		20	40				4	40		8,064.38	Ream and drill ahead
8-5	2279			2.5						30							750.90	Drill ahead. Trip for bit.
9-5	2288			4.2				Credit	- 23								822.05	Drill into salt. Log hole
10-5	2275		3	3.4													447.54	Run csg. CMT
11-5	2275	6.1		23.4	20					30							5,335.98	Run logs. Build new mud
12-5	2380		150	61.3	20	8		8			1520	68					31,787.40	Build new mud. Drill
13-5	2507	4.5	71	12.2	18						381	7					7,970.16	Drill. Wiper trip. Drill. POOH
14-5	2507										200	12					3,201.44	POOH. W/turb. blocked. Drp TRB in hole
15-5	2507	3.2		12.5	10			1	Magco Polysal		300	10					6,293.76	Fished junk. Retrieved.RIH ^w /bit
16-5	2724			20.5	16						25	20					5,584.69	Drlg. ahead.Salt. Build new vol
17-5	2810		35	4.6	10												1,170.78	Drlg. ahead.POOH to run turb in hole
18-5	3065	3.0		14.6	9			1	30		175	7					6,865.33	Drlg. ahead. Mix new vol
19-5	3161	2.7		20.5	17						364	22					9,308.69	Drlg. ahead. Salt & anhydrite. POOH
20-5	3236				8						5						130.77	Trip for new diamond bit. Drlg. and
21-5	3356	4.0		16.3	27					14	210	16					7,519.78	Drlg. w/surveys - turbo
22-5	3442	3.2		3.2						6	225	4					3,737.37	Drlg. Make wiper trip - tight
23-5	3442			2.3					Polysal								273.24	POOH. Hole very tight
24-5	3519	5.3		12.3	65				XC Polymer	60		16					9,576.31	RIH.Drill - stuck on wiper trip
25-5	3519	2.9		11.8	20	40				70		5					7,657.90	Stuck.Brk free.POOH.Lost BHA
26-5	3519		90	174.7	3	30	19			5	60						25,499.11	RIH to csg.Circl. Observe flow
27-5	3519			91.7			10			72							17,930.74	Circl. Cond. mud.Hole cont. flow
28-5	3519			84.4			7			217	210						25,767.97	Circl. Cond. mud. Hole flowing
29-5	3519			42.0						84							31,270.94	Circl. Cond. mud & hole for flow
30-5	3519			108.2						51							16,587.53	Circl. Wt up.Cut backdue to main flux
31-5	3519			146.8													18,160.64	Circl.Wt up to 2.02. Still flowing
1-6	3519			61													7,967.60	POOH.RIHw/fishing tools.Return mud cut
-6	3519		25	79						30	160						12,751.20	POOH.RIH Open end to set cmt plug back



DAILY MATERIALS CONSUMPTION

WELL B.P. Norway 16/8-2

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DATE	DEPTH	Barite mt	Bentonite SX	Polysal Dextrid SX	\$326 - XC Polymer SX	Salt	Magco: Inhib: 202 Dr	Magconol dr	Salt Water Clay	Caustic Soda	DAILY MUD COST	REMARKS
3-6	3519	36.4		5	8						6114.71	Circl. Pump. cmt plug. POOH/RIH w/bit
4-6	3519	12.7		18		37	1				3577.35	Circl. No cmt plug. POOH/RIH. to set cmt
5-6	3519	12.3		20			2				4084.24	Circl. cmt. WOC. No cmt
6-6	3519	16.4									1948.32	POOH. RIH to cmt, 68bbl=300m. Stuck
7-6	3519										-	Stuck in hole. 340 psi on DP. WOW
8-6	3519	25.5						4	6		6660.00	WOW. Rig up Atlas. Pump heavy mud
9-6	3519	6.8							2		6945.80	Ran free pt. RIH w/string shot. Back off
10-6	3519	117.0	50		6	240					18428.20	Stuck. 24 to psi on DP. Bled off. Ret. Br.
11-6	3519	31.8	9		5						5538.70	Well shut in. Cmt & displace.
12-6	3519										-	WOC. Bleed excess DP pressure
13-6	3519	56.7	25		2					2	7774.54	WOC. Wash hole w/salt free slurry
14-6	3519	5.4									641.52	Cmt & displace. WOC
15-6	3519	19.5			6	210					5887.50	WOC: Cmt again. Displace
16-6	3519	59.4		32	6	330					13440.66	WOC. Back off pipe. Circl.
17-6	3519	5.8									689.04	Circl. POOH. Inspect pipe. RIH
18-6	3519	9.6	20		2	160			20		3480.48	Cmt. Lost returns. Pipe cmt.
19-6	2500		55	10	9	170			30		5881.90	Circl. Cutting mud wt back 1-82
20-6	2435			7							413.49	RIH. Circl. Kick off. Trip for new BHA
21-6	2500			15			1				1606.85	RIH. Drlg deviated hole. Drld into old.
22-6	2625	13.8		20			1				3541.64	Drld. Hit old fish in hole. POOH
23-6	2625	43.5									5167.80	POOH well flowing. Wt up to 1,88
24-6	2450	9.8		10	2			1			3302.08	RIH. Cmt 34bbl. Dumped 90bbl mud.
25-6	2451	12.0									1425.60	WOC. Tag. Cmt again. Dress off
26-6	2324	2.7		21	5	300				30	5844.43	WOC. Dress off. RIH w/side trk assy
27-6	2341	13.2		17	1	90					3590.45	Sidetrk. tool failure. Trip for replcement
28-6	2374	10.9			4	60					3060.32	Drld out POOH for conventional assy
29-6	2390	6.8			3	60				2	2270.32	Repair rig. RIH
30-6	2593	22.2			3	30	4				6729.26	Drld ahd w/surveys
1-7	2747	34.5		44	5	210					9942.58	Drld ahd. POOH for bit
2-7	2947	2.7			2						972.76	Drld ahd w/surveys
3-7	3078	81.82		7	1	70	3				13160.41	Drld ahd w/surveys

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DAILY MATERIALS CONSUMPTION

WELL B.P. Norway 16/8 - 2

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DATE	DEPTH	Barite	Polysal	XC-Polymer	Salt	Inhibitor 202	Magconol Defoamer	Soda Ash	Caustic	Al. Stear.	Ge1 SX				DAILY MUD COST	REMARKS
4-7	3163	28.7	14		328		1								7654.00	POOH for bit. RIH. Drill ahead
5-7	3286	59.4	20	9	210		1								13682.16	Drld ahd. POOH for bit
6-7	3337	5.5	40		30		1								4142.04	RIH. Drld ahd. Tested BOP's
7-7	3481	13.4	12	2	20	1	2								5617.64	Dr1. well flowing, shut in, open, drl
8-7	3481	148.2	28		100		1								20924.26	Trip
9-7	3481	16.33		2	45		1								3833.19	Circ
10-7	3573	94.33	3	3	210	1	1	4							15666.29	Trip
11-7	3574	3.63	1		4			2							557.77	Trip - RIH
12-7	3585	58.96	14	7	40		2	4	5						12342.85	POOH to log
13-7	3585														0	Circ.
14-7	3585	7.71	5	4	15				2	4					2903.73	Run csg
15-7	3585	46.26	1	2	500						6				10143.44	cmt csg
16-7	3584		2	2	60										1231.54	wait cmt. POOH. Rig down
17-7	3584					Nil										POOH. Pull BOP's & wrk on stack
18-7	3584					Nil										Wrk & testing stack
19-7	3584		1	2	150										1864.57	" " " "
20-7	3584			1											326.00	" " " "
21-7	3584	27.2	2	2	210			1							5626.03	" " " "
22-7	3584			2	60										579.54	RIH. Test (Fail). POOH. work stack
23-7	3584															Working and testing stack
24-7	3584															" " " "
25-7	3584															" " " "
26-7	3584			1											326.00	" " " "
27-7	3584															" " " "
28-7	3584	2.3	23	3											2609.85	Test BOP's success. drl cmt to liner
29-7	3584		16	7	200										4765.12	Dr1 cmt at liner. Pick up 3 1/2" pipe
30-7	3584															Tight spot 3223. Dry test
31-7	3584															RIH w/swedge. Lost 3DC in hole
1-8	3584	23.3													2768.04	RIH w/ ocershot. Lost part of overshot
2-8	3584	8.2													974.16	Milling. Fishing. No fish recovered
3-8	3584	10.7	5	2											2277.56	Milling. Tight hole.

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63
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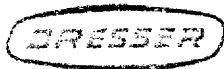


DAILY MATERIALS CONSUMPTION

WELL B.P. Norway 16/8-2

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DATE	DEPTH	BARITE mt	POLYSAL	XC-POLYMER	SALT	INHIB 202	MAGCONOL	SODA ASH	CAUSTIC	ALUM. STEARATE	BENTONITE SX	MICA F	XP-20	DAILY MUD COST \$	REMARKS
4-8	3584	14.0	5	2										2610.55	Tripping. Milled 3218 to 3226 m
5-8	3584	10.2					1							2106.90	" " twist off
6-8	3584	4.0		5										2105.20	Cont. w/fishing operation
7-8	3584	4.0												475.20	As above
8-8	3584	15.0		1										2108.00	Cont. fishing operation
9-8	3584	12.0										10		1631.40	Prepare to P & A
10-8	3584	11.6											3	1441.20	Set final plug



DRESSER NORWAY A.S.

MATERIAL CONSUMPTION BY INTERVAL



MATERIAL CONSUMPTION BY INTERVAL

B.P. 16/8 - 2

INTERVAL R.K.B. - 182 m (36" hole, 30" casing)

<u>PRODUCT</u>	<u>UNITS USED</u>	<u>UNIT PRICE</u>	<u>COST</u>
Bentonite	9 M/T	\$ 306.78	\$ 2761.02
Bentonite	75 sxs/50kg sx	\$ 14.54	\$ 1090.50
Lime	10 sxs/40kg sx	\$ 7.69	\$ 76.90
Caustic Soda	8 sxs/25kg sx	\$ 11.54	\$ 92.32
			<u>\$ 4020.74</u>

Interval days: 3

Interval meters: 182

Cost per meter: \$22.09



MATERIAL CONSUMPTION BY INTERVAL

B.P. 16/8-2

INTERVAL: 175 - 542 m (24" Hole, 18⁵/₈" casing)

<u>PRODUCT</u>	<u>UNITS</u>	<u>UNIT COST</u>	<u>COST</u>
Bentonite	13.9 M/T	\$ 306.78	\$ 4,264.24
Caustic Soda	10 25 kg sx	\$ 11.54	115.40
Lime	12 40 kg sx	\$ 7.69	92.28
Soda Ash	3 50 kg sx	\$ 18.46	55.38
Mica C	15 25 kg sx	\$ 18.46	276.90
Nut Plug C.	16 25 kg sx	\$ 16.26	260.16
			<u>5,064.36</u>

Interval days: 6 days (4 days drlg)

Interval meters: 367 m

Cost per meter: \$13.80



MATERIAL CONSUMPTION BY INTERVAL

B.P. 16/8 - 2

INTERVAL: Depth: 534 to 1705 m. (17½" Open Hole; 13³/₈" Casing)

Drilled: 1171 m from 18⁵/₈" casing shoe.

<u>PRODUCT</u>	<u>UNITS/SIZE</u>	<u>UNIT COST</u>	<u>COST</u>
Barite	231 M/T	\$ 118.80	\$ 27,442.80
Bentonite (bulk)	8.6 M/T	\$ 306.78	\$ 2,638.31
Spersene	775.0 50 lb sx	\$ 15.13	\$ 11,725.75
Caustic Soda	282.0 25 kg sx	\$ 11.54	\$ 3,254.28
Lime	6.0 20 kg sx	\$ 7.69	\$ 46.14
Gypsum	476.0 50 kg sx	\$ 7.69	\$ 3,660.44
CMC LV	349.0 25 kg sx	\$ 55.87	\$ 19,498.63
Magconol	7.0 55 gal dm	\$ 895.14	\$ 6,265.98
			<u>\$ 74,532.33</u>

Material Consumption for 13³/₈" Casing Cement Spacer:

Barite	7.5 M/T	\$ 118.80	\$ 891.00
Bentonite (sacks)	8.0 50 kg sx	\$ 14.54	\$ 116.32
			<u>\$ 1,007.32</u>

Days to drill interval: 5 days

Average daily cost of drilling: \$ 14,906.47

Average cost per meter drilled: \$ 63.65



MATERIAL CONSUMPTION BY INTERVAL

B.P. 16/8 - 2

INTERVAL: 8½" Open Hole. (Prior to well problems)

2275 m- 3519 m

<u>PRODUCT</u>	<u>UNIT SIZE</u>	<u>UNIT COST</u>	<u>COST</u>
Barytes	215.5 MT	118.80	25,601.40
Bentonite (bulk)	34.9 MT	306.78	10,706.62
Bentonite (sacks)	256 50 kg sx	14.54	3,722.24
Spersene	50 50 lb sx	15.13	756.50
Caustic Soda	240 25 kg sx	11.54	2,769.60
Stafle/Drispac	187 50 lb sx	138.62	25,921.94
Magco-polysal	160 40 kg sx	59.07	9,451.20
Lime	10 50 kg sx	7.69	369.12
Soda Ash	10 50 kg sx	18.46	184.60
Salt	3505 50 kg sx	7.69	<u>26,953.45</u>
			106,436.67

Length of Interval: 1244 m

Cost per metre: \$ 85.56

Period in days: 15

Average cost per day: \$ 7,095.78



MATERIAL CONSUMPTION BY INTERVAL

B.P. 16/8- 2

INTERVAL: 8½" open hole. During well problems

<u>PRODUCT</u>	<u>UNITS USED</u>	<u>UNIT PRICE</u>	<u>COST \$</u>
Barytes	1409 MT	118.80	167,389.20
Bentonite (sx)	274 50 kg sx	14.54	3,983.96
Spersene	5 50 lb sx	15.13	75.65
Caustic Soda	35 25 kg sx	11.54	403.90
Polysal/Dextrid	629 50 lb sx	59.07	37,155.03
Lime	30 40 kg sx	7.69	230.70
Salt	2027 25 kg sx	7.69	15,587.63
XC-Polymer	92 25 kg sx	326.00	29,992.00
Magconol	5 55 gal dm	895.14	4,475.70
Magco Inhibitor 202	8 55 gal dm	720.80	5,766.40
Salt water gel	58 50 kg sx	8.34	<u>483.72</u>
Total cost			265,543.89



MATERIAL CONSUMPTION BY INTERVAL

B.P. 16/8-2

INTERVAL: 8½" Open Hole - 7" Liner

DEPTHS: 2374 m - 3585 m.

<u>PRODUCT</u>	<u>UNIT SIZE</u>	<u>UNIT COST</u>	<u>COST</u>
Barytes	630.44 M/T	118.80	\$ 74,896.27
XC-Polymer	45 25 kg sx	326.00	\$ 14,670.00
Salt	1932 50 kg sx	7.69	\$ 14,857.08
Magco Polysal	191 25 kg sx	59.07	\$ 11,282.37
Magco Inhibitor 202	9 55 gal dm	720.80	\$ 6,487.20
Magconol	10 55 gal dm	895.14	\$ 8,951.40
Soda Ash	10 50 kg sx	18.46	\$ 184.60
Caustic Soda	7 25 kg sx	11.54	\$ 80.78
Al. Stearate	4 10 kg sx	20.00	\$ 80.00
			Total Cost \$ 131,489.70

Depth of Interval Drilled: 1211 m
Average Cost per Meter Drilled: \$ 105.58
Number of Days to Drill Interval: 16 days
Average Cost per Day: \$ 8,218.11

Products used in cementing liner:

<u>PRODUCT</u>	<u>UNIT SIZE</u>	<u>UNIT COST</u>	<u>COST</u>
Bentonite	6/50 kg sx	14.54	\$ 87.24
			Total Cost \$ 87.24



MATERIAL CONSUMPTION BY INTERVAL

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INTERVAL SUMMARY ACCRUED FROM CEMENTING OF 7" LINER

<u>PRODUCT</u>	<u>UNIT SIZE</u>	<u>UNITS</u>	<u>COST</u>	<u>COST</u>
Barite	150.7 M/T	118.80		17,903.16
Bentonite	4.0 50 kg sx	14.54		58.16
XP-20	3.0 50 lb sx	21.04		63.12
Spersene	41.0 50 lb sx	15.13		620.33
Salt	311.0 50 kg sx	7.69		2,391.59
XC-Polymer	19.0 25 kg sx	326.00		6,194.00
Polysal	52.0 25 kg sx	59.07		3,071.64
Soda Ash	32.0 50 kg sx	18.46		590.72
Magconol	1.0 55 gal dm	895.14		895.14
Magco Inhibitor 202	4.0 55 gal dm	720.80		2,883.20
Mica F C	55.0 25 kg sx	18.46		1,015.30
Nut Plug F & C	18.0 25 kg sx	16.26		292.68
Caustic Soda	55.0 25 kg sx	11.54		634.70
Al. Stearate	6.0 20 kg sx	20.00		120.00
Drispac	29.0 25 kg sx	138.62		4,019.98 credit
Lime	52.0 40 kg sx	7.69		399.88 credit
			Total Cost \$	32,313.88

Total cost differential shown here from mud reports owing to inventory corrections and adjustments made on the Well completion, but not included in cumulative costs.



TOTAL MATERIAL CONSUMPTION

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TOTAL PRODUCT CONSUMPTION FOR WELL

<u>PRODUCT</u>	<u>UNITS</u>	<u>UNIT COST \$</u>	<u>COST \$</u>
Barite	2801.9 M/T	118.80	332,865.72
Bentonite	67.1 M/T	306.78	20,584.94
Bentonite	626 50 kg sx	14.54	9,102.04
Caustic Soda	786 25 kg sx	11.54	9,070.44
Lime	68 40 kg sx	7.69	522.92
Gypsum	713 40 kg sx	7.69	5,482.97
Soda Ash	66 50 kg sx	18.46	1,218.36
Salt	7775 50 kg sx	7.69	59,789.75
Spersene	1345 50 kg sx	15.13	20,349.85
XP-20	142 50 kg sx	21.04	2,987.68
Magco Polysal	1032 50 kg sx	59.07	60,960.24
XC-Polymer	156 50 kg sx	326.00	50,856.00
Drispac Reg	158 50 kg sx	138.62	21,901.96
Mica, c + f	70 25 kg sx	18 46	1,292.20
Nut Plug, c + f	34 25 kg sx	16.26	552.84
Aluminium Stearate	12 10 kg sx	20.00	240.00
CMC LV	474 25 kg sx	55.87	26,482.38
Magconol	24 55 gal dms	895.14	21,483.36
Drilling Detergent	10 55 gal dms	442.75	4,427.50
Magco Inhibitor 202	21 55 gal dms	720.80	15,136.80
Salt Water Gel	58 50 kg sx	8.34	483.72
			<u>US \$ 665,791.67</u>

Average Cost per Meter drilled (3585 m): \$ 185.72
 Average Cost per Drilling day (37 days): \$ 17,994.37
 Average Cost per day on location (132 days): \$ 5,043.88

PLEASE NOTE THAT ALL PRICES ARE THE NOVEMBER 1ST, 1978 PRICE LIST!