



# WELL SUMMARY

STATOIL, 30/2-1

## MATERIAL COSTS PER INTERVAL

36" hole section

R.K.B. - 216 meters

<u>PRODUCT</u>	<u>UNIT SIZE</u>	<u>UNITS</u>	<u>UNIT COST</u>	<u>TOTAL COST</u>
Magcogel	Metric ton	26	\$ 389.97	\$ 10139.20
Caustic Soda	25 kg/sx	27	\$ 21.41	\$ 578.07
Lime	20 kg/sx	22	\$ 4.35	\$ 95.70
Soda Ash	50 kg/sx	21	\$ 21.73	\$ 456.33

Total cost: \$ 11269.30

Estimated cost: \$ 8921.87

Difference: \$ 2347.43

Meters drilled: 216m

Cost per meter: \$ 52.20



# WELL SUMMARY

STATOIL, 30/2-1

MATERIAL CONSUMPTION

BY INTERVAL



# WELL SUMMARY

STATOIL, 30/2-1

## MATERIAL COSTS PER INTERVAL

12-1/4" pilot hole, open to 26"

216 - 1035 meters

<u>PRODUCT</u>	<u>UNIT SIZE</u>	<u>UNITS</u>	<u>UNIT COST</u>	<u>TOTAL COST</u>
Magcogel	Metric ton	39	\$ 389.97	\$ 15208.80
Magcobar	Metric ton	48	\$ 141.96	\$ 6814.08
Caustic Soda	25 kg/sx	78	\$ 21.41	\$ 1669.98
Soda Ash	50 kg/sx	28	\$ 21.73	\$ 608.44
Lime	20 kg/sx	29	\$ 4.35	\$ 126.15
Total cost:				\$ 24427.50
Estimated cost:				\$ 42809.18
Difference: -				\$ 18381.68
Meters drilled:				819m
Cost per meter:				\$ 29.80

Less Magcogel was used while preparing hi-viscosity pills.



# WELL SUMMARY

STATOIL, 30/2-1

## MATERIAL COSTS PER INTERVAL

17-1/2" Hole

1020 - 2156 meters

<u>PRODUCT</u>	<u>UNIT SIZE</u>	<u>UNITS</u>	<u>UNIT COST</u>	<u>TOTAL COST</u>
Magcobar	Metric ton	824	\$ 141.96	\$ 116975.04
Magcogel	Metric ton	81	\$ 389.97	\$ 31587.57
Caustic Soda	25 kg/sx	282	\$ 21.41	\$ 6037.62
CMC H.V.	25 kg/sx	65	\$ 66.78	\$ 4340.70
CMC L.V.	25 kg/sx	227	\$ 64.24	\$ 14582.48
Gypsum	40 kg/sx	1095	\$ 10.39	\$ 11377.05
Spersene	25 kg/sx	581	\$ 19.56	\$ 11364.36
XP-20	50 lb/sx	95	\$ 31.85	\$ 3025.75
Pipe Lax	55 gal/dr	29	\$ 998.52	\$ 28957.08
Oilfaze	50 lb/sx	55	\$ 57.12	\$ 3141.60
SE-11	55 gal/dr	1	\$ 1082.40	\$ 1082.40
Total cost:				\$ 232471.65
Estimated cost:				\$ 127529.70
Difference:				\$ 104941.95
Less stuck pipe solutions:				\$ 33181.08
Actual drilling cost:				\$ 199290.57
Drilling costs per day:				\$ 9964.52
Cost per meter:				\$ 175.43

The additional cost on this section was due to an increase in density due to higher pore pressures and additional Bentonite used for this. This hole was trouble free during drilling and the Gypsum mud was very easy to control. The dilution rate was high due to solids control equipment being inefficient.



# WELL SUMMARY

STATOIL, 30/2-1

## MATERIAL COSTS PER INTERVAL

12-1/4" hole section.

<u>PRODUCT</u>	<u>UNIT SIZE</u>	<u>UNITS</u>	<u>UNIT COST</u>	<u>TOTAL COST</u>
Barite	Metric ton	917	\$ 141.96	\$ 130177.32
Bentonite	Metric ton	16	\$ 389.97	\$ 6239.52
Caustic Soda	25 kg/sx	312	\$ 21.41	\$ 6679.92
Spersene	25 kg/sx	840	\$ 19.56	\$ 16430.40
XP-20	50 lb/sx	382	\$ 31.85	\$ 12166.70
Resinex	50 lb/sx	220	\$ 75.54	\$ 16618.80
Soda Ash	50 kg/sx	3	\$ 21.73	\$ 65.19
Sodium Bicarb.	50 kg/sx	8	\$ 25.32	\$ 202.56
Lime	40 kg/sx	9	\$ 8.20	\$ 73.80
Pipe Lax	55 gal/dr	8	\$ 998.52	\$ 7988.16
Imco Spot	(not charged)	82	-	-
Total cost:				\$ 196642.37
Estimated cost:				\$ 162290.94
Difference				\$ 34351.43
Meters drilled:				1345m
Cost per meter:				\$ 146.20

The excess cost was due to the higher density required to overcome pore pressures and the additional days used to drill the well.



# WELL SUMMARY

STATOIL, 30/2-1

## MATERIAL COSTS PER INTERVAL

8-1/2" hole section  
3491 - 3836 meters

<u>PRODUCT</u>	<u>UNIT SIZE</u>	<u>UNITS</u>	<u>UNIT COST</u>	<u>TOTAL COST</u>
Magcobar	Metric ton	868	\$ 141.96	\$ 123221.28
Magcogel	Metric ton	65	\$ 389.97	\$ 25348.05
Spersene	25 kg/sx	273	\$ 19.56	\$ 5339.88
XP-20	50 lb/sx	136	\$ 31.85	\$ 4331.60
Resinex	50 lb/sx	299	\$ 75.54	\$ 22586.46
Caustic Soda	25 kg/sx	190	\$ 21.41	\$ 4067.90
Pipe Lax	55 gal/dr	12	\$ 998.52	\$ 11982.24
Soda Ash	50 kg/sx	2	\$ 21.73	\$ 43.46
Mica	25 kg/sx	477	\$ 20.54	\$ 9797.58
Nut Plug	25 kg/sx	371	\$ 18.90	\$ 7011.90
Lime	20 kg/sx	2	\$ 4.35	\$ 8.70
Total cost:				\$ 213739.05
Cost per day:				\$ 7370.31
Cost of material used to kill well:				\$ 93617.31
Drilling cost:				\$ 120121.70
Cost per day:				\$ 4142.12
Estimated cost:				\$ 169401.22
Difference:				\$ 44337.83

The additional costs were accumulated during the control of the well kicking. The time consumed to drill the section was also a factor. Without the cost of killing the well the cost was considerably below the estimated cost.



# WELL SUMMARY

STATOIL, 30/2-1

## MATERIAL COSTS PER INTERVAL

6" hole section

3836 - 4243 meters

<u>PRODUCT</u>	<u>UNIT SIZE</u>	<u>UNITS</u>	<u>UNIT COST</u>	<u>TOTAL COST</u>
Magcobar	Metric ton	707	\$ 141.96	\$ 100365.72
Magcogel	Metric ton	33	\$ 389.97	\$ 12869.01
Spersene	25 kg/sx	319	\$ 19.56	\$ 6239.64
XP-20	50 lb/sx	145	\$ 31.85	\$ 4618.25
Caustic Soda	25 kg/sx	67	\$ 21.41	\$ 1434.47
Resinex	50 lb/sx	152	\$ 75.54	\$ 11482.08
Pipe Lax	55 gal/dr	6	\$ 998.52	\$ 5991.12
Drispac	50 lb/sx	3	\$ 191.90	\$ 575.70
Total cost:				\$ 143575.99
Cost per day:				\$ 4631.48
Cost per meter:				\$ 352.76

There was no estimate on this section of the well, but stuck pipe increased costs plus the weighting up of the fluid to 2.05 sp.gr. greatly increased the consumption of Barite.



# WELL SUMMARY

STATOIL, 30/2-1

## MATERIAL COSTS PER INTERVAL

Interval: Testing, plug and abandon

<u>PRODUCT</u>	<u>UNIT SIZE</u>	<u>UNITS</u>	<u>UNIT COST</u>	<u>TOTAL COST</u>
Barite	Metric ton	226	\$ 141.96	\$ 32082.96
Bentonite	Metric ton	15	\$ 389.97	\$ 5849.55
Spersene	25 kg/sx	32	\$ 19.56	\$ 625.92
XP-20	50 lb/sx	10	\$ 31.85	\$ 318.50
Resinex	50 lb/sx	57	\$ 75.54	\$ 4305.78
Caustic Soda	25 kg/sx	26	\$ 21.41	\$ 556.66
Sodium Bicarb.	50 kg/sx	4	\$ 25.32	\$ 101.28
Drispac	50 lb/sx	8	\$ 191.90	\$ 1535.20
CMC H.V.	25 kg/sx	6	\$ 66.78	\$ 400.68

Total cost for interval: \$ 45776.53





# WELL SUMMARY

STATOIL, 30/2-1

TOTAL MATERIALS CONSUMPTION



# WELL SUMMARY

## TOTAL MATERIAL CONSUMPTION

<u>PRODUCT</u>	<u>UNIT SIZE</u>	<u>UNITS</u>	<u>UNIT COST</u>	<u>TOTAL COST</u>
Magcobar	Metric ton	3590	\$ 141.96	\$ 509636.40
Magcogel	M/T	275	\$ 389.97	\$ 107241.75
Caustic Soda	25 kg/sx	982	\$ 21.41	\$ 21024.62
Gypsum	40 kg/sx	1095	\$ 10.39	\$ 11377.05
CMC H.V.	25 kg/sx	71	\$ 66.78	\$ 4741.38
CMC L.V.	25 kg/sx	227	\$ 64.24	\$ 14582.48
Lime	40 kg/sx	9	\$ 8.20	\$ 73.80
Lime	20 kg/sx	53	\$ 4.35	\$ 230.55
Spersene	25 kg/sx	2045	\$ 19.56	\$ 40000.20
XP-20	50 lb/sx	768	\$ 31.85	\$ 24460.80
Resinex	50 lb/sx	728	\$ 75.54	\$ 54993.12
Soda Ash	50 kg/sx	54	\$ 21.73	\$ 1173.42
Drispac	50 lb/sx	11	\$ 191.90	\$ 2110.90
Pipe Lax	55 gal/dr	55	\$ 998.52	\$ 54918.60
Oilfaze	50 lb/sx	55	\$ 57.12	\$ 3141.60
SE-11	55 gal/dr	1	\$ 1082.40	\$ 1082.40
Sodium Bicarb.	50 kg/sx	12	\$ 25.32	\$ 303.84
Mica	25 kg/sx	477	\$ 20.54	\$ 9797.58
Nut Plug	25 kg/sx	371	\$ 18.90	\$ 7011.90
Imco Spot	(not charged)	82	-	-
			<b>Total cost:</b>	<b>\$ 867902.39</b>

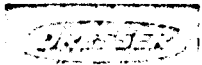


# WELL SUMMARY

STATOIL, 30/2-1

DAILY MATERIALS

CONSUMPTION



# DAILY MATERIALS CONSUMPTION

WELL STATOIL, 30/2-1

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DATE 1982	DEPTH M	BARITE	GEL	CAUSTIC	SODA ASH	LIME	GYP	CMC HV	CMC LV	SPERSENE	XP-20	PIPE LAX	OILFAZE	SE-11	DAILY MUD COST USD	REMARKS
16/5	-		17	12	15	14									7327.46	Building spud mud.
17/5	216		6	9	3	4									2630.40	Spudded in 36" hole.
18/5	216		3	6	3	4									1396.36	Drl'd 36" hole. Set & cmt 30" csg.
19/5	216	2	2	6	3	4									1289.71	Drlg cmt with sea-water.
20/5	268	18	9	9	4	1									6352.82	Drlg 12-1/4" hole (pilot)
21/5	748			2	2										86.40	Drlg 12-1/4" hole (pilot)
22/5	1034	11	2	13	6	1									2758.08	Drlg 12-1/4" hole & logging.
23/5	277	17	7	9	3	2									5417.39	Drlg 26" hole.
24/5	750		2	6	2	6									1001.06	Drlg 26" hole.
25/5	1035		10	18	3	9									4424.07	Drlg 26" hole.
26/5	1035		7	15	5	6									3208.79	Running csg & cementing 20"
27/5	1035		2	6	2		60								1574.26	
28/5	1035	20	12	9			260								10412.93	Built gyp mud - Ran riser.
29/5	1104		6	3			110	30							5550.35	Drlg 17 1/2" hole.
30/5	1370		34	9			120	20	30						16034.07	Drlg 17 1/2" hole.
31/5	1495	10	3	11			140		30						8134.02	Drlg 17 1/2" hole.
1/6	1695			20					30						2355.17	Drlg.
2/6	1860	88	16	30			110	15	57						25180.58	Circ. gas 48% out of mud. Increased mud weight to 1.27.
3/6	1932	147	5	33			90		50	60					28845.20	Circ. incr. MW to 1.40 Dispersing.
4/6	1932	193		30			30			100					30308.28	" " " " 1.52 - Trip - RIH with 8 1/2" bit.
5/6	1954	65	4	12			70			40					12553.90	Coring.
6/6	1990						60								623.40	2nd core/circ/Test BOP/Drilling to 2020m.
7/6	2020			5			45			25					1063.60	POOH. Logging.
8/6	2060	22	1	25					30	41					6777.50	Reaming 8 1/2" rathole/Repair kelly hole/Drilling ahead.
9/6	2125	104		45						130					18270.09	Incr. MW to 1.57, then 1.60.
10/6	2156	66					60		10						10635.16	Circ/cond. 14 hrs - Circ out gas 8.7% - POOH to log.

# DAILY MATERIALS CONSUMPTION

WELL STATOIL, 30/2-1

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DATE 1982	DEPTH M	BARITE	GEL	CAUSTIC	SODA ASH	LIME	GYP	CMC HV	CMC LV	SPERSENE	XP-20	PIPE LAX	OILFAZE	RESINEX	SE-11	S. BICARB	DAILY MUD COST USD	REMARKS
11/6	2156	23		30						125	60						8424.43	Prep. to run 13-3/8" casing.
12/6	2156			10						15	10						826.00	Circ. Csg stuck at 1998m.
13/6	2156	49		10						45	20	10	55		1		22896.54	Csg stuck (Mixing free pipe pills)
14/6	2156	20															2839.20	" " " " " "
15/6	2156											19					27915.36	" " " " " "
16/6	2156																0	Cemented 13-3/8" casing.
17/6	2156																0	Running packer, testing BOP's
18/6	2188	39		5	3					90	45			70	4		14291.41	Drilling 12-1/4" hole.
19/6	2227	125								30	20			10			19724.20	Drlg 12-1/4", Incr. MW to 1.70.
20/6	2357	50								90	45				4		10392.93	Drlg 12-1/4" hole.
21/6	2497	30		7		2				70	40						7068.27	Drlg 12-1/4", Incr. MW to 1.75.
22/6	2600	72		17		6				70	40						13277.49	" " " " " 1.77.
23/6	2706	56		17						90	15						10560.08	Drlg 12-1/4" hole.
24/6	2794	35		15						20	10						5999.45	" " " Reduce D.S.
25/6	2814	30		30						40	20						6320.50	Test BOP. Drill ahead.
26/6	2851	38															5394.48	Drill ahead.
27/6	2930	48	2														7594.02	" "
28/6	2948	17	1	12						45	22						4641.11	Drill and trip.
29/6	3028	11		10						30	15						2366.66	Drill ahead. Add prehydr. gel.
30/6	3115	117		44						80	60			40			24048.76	Drill ahead. CL. increase.
1/7	3204		10														3899.70	Drill ahead. Add prehydr. gel.
2/7	3286	73															10363.08	Drill ahead. CL. up.
3/7	3363	15		30						40	20			80			10234.30	Treat mud.
4/7	3432			45						20	10			10			2428.55	Gas, treat for CL content.
5/7	3501	3		45						20	10			10			2854.43	Raise MW. Gas. High solids.
6/7	3501	81	1	30						20							12922.23	Trip. Wiper trip. Circ.
7/7	3501	19										8					10685.40	Stuck, mix pill free. Run logs.
8/7	3501	15								50							3425.90	Loq. Wiper trip. Circulate.
9/7	3501																0	Run 9-5/8" casing
10/7	3501	16								35							2955.96	Cement 9-5/8, Test seal assem.
11/7	3501																0	Test casing & seal assembly.

# DAILY MATERIALS CONSUMPTION

WELL STATOIL, 30/2-1

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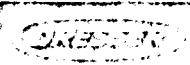
DATE 1982	DEPTH M	BARITE	GEL	CAUSTIC	SODA ASH	SPERSENE	XP - 20	RESINEX	MICA	NUT PLUG	LIME	PIPE LAX	IMCO SPOT (NO CHARGE)	DAILY MUD COST USD	REMARKS
12/7	3501	27		5										3939.97	Test seal assembly.
13/7	3501		2											779.94	Change sub-sea stack.
14/7	3501					NO MATERIALS USED								0	Prepare sub-sea stack.
15/7	3501					NO MATERIALS USED								0	Test sub-sea stack.
16/7	3501	2	2	1										348.47	Drill cement, test stack.
17/7	3517	7	14											6453.30	Drill shoe, leak-off test, Drl.
18/7	3548	7						10						1749.12	Drill ahead, trip.
19/7	3601	36				15	5	35						8207.11	Drill ahead.
20/7	3630	41		3		15	10	10						7251.89	Drill, raise MW, drill.
21/7	3678	38		3		20	15	55						10452.36	Drill, raise MW, drill.
22/7	3696	25		20					49	42				5777.46	Lost circ, Circ. & pump pills.
23/7	3696					NO ADDITIVES								0	Logging + R.F.T.
24/7	3696	26							51	52				5721.30	RIH to core no. 3
25/7	3710	15	3	10		30	15	40						7599.56	Coring.
26/7	3717	32	3	2										5755.45	Coring - prehydrate Bentonite.
27/7	3735	2												283.92	Coring.
28/7	3758	16												2271.36	Coring. Run sea water.
29/7	3776	40		5		15	7	30						8568.00	Dump sand trap. Build volume.
30/7	3794					NO ADDITIVES								0	Coring.
31/7	3836	120	9	29		15	7	10	67	67				24963.06	Lost circulation.
1/8	3836	63	6	2		18	7	10	40	40				14234.15	Losing circulation.
2/8	3836								50	50				1972.00	Losing circulation.
3/8	3836	23	5	2		20	10	10	120	120				11455.65	Logging.
4/8	3836	36												5110.56	Finish logging.Circ. to run liner.
5/8	3836	44	4	13		35	15	23	100					13038.22	Ream, spot LCM pill, POH, kick.
6/8	3836	51	6	15		30	15	20		2				12492.68	Circulate out gas.
7/8	3836	182	17	20		60	30	21						36609.85	Circulate out gas, stuck pipe.
8/8	3836	23	2	15							4	82		8360.25	Circulate out gas.
9/8	3836			30										642.30	Circulate out gas.
10/8	3836					NO MATERIALS USED								0	Pipe stuck, circ. out gas.
11/8	3836	28									8	118		11963.04	Work stuck pipe.

# DAILY MATERIALS CONSUMPTION

WELL STATOIL, 30/2-1

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DATE 1982	DEPTH M	BARITE	GEL	CAUSTIC	SODA ASH	SPERSENE	XP-20	RESINEX	MICA	NUT PLUG	LIME	PIPE LAX	IMCO SPOT (NO CHARGE)	DAILY MUD COST USD	REMARKS
12/8	3836	9	3					25						4336.05	Pipe free, POH to shoe, Circ gas
13/8	3836	2	2											1063.86	Circ out gas. Spot L.C.M. RIH with 7" liner.
14/8	3836		2											779.94	RIH w/liner, cmt, well flowing.
15/8	3836	110		12										15872.52	Wt up mud to 2.15, circ out gas.
16/8	3836	101												14337.96	Circ out gas, wiper trip.
17/8	3836	60		10		33	5	55						13691.13	Observe well, Drl cmt, Circ out gas.
18/8	3836	7												993.72	Mill on cement. Circ out gas. RIH with 6" bit.
19/8	3836					NO	ADDITIVES							0	Looking for leak in casing.
20/8	3836					NO	ADDITIVES							0	" " " " "
21/8	3836	40												5678.40	Fishing for pump joint (slugs).
22/8	3836	7												993.72	Lay cmt plug, Pull BOP.
23/8	3836		2			10	5							1134.79	Reduce mud wt to 1.95.
24/8														0	Pull BOP stack, clean top pits.
25/8														0	Repair BOP.
26/8														0	Run BOP+Riser, Reduce mud to 1.95
27/8	2900	17												0	
28/8	3824	3	3	13		70	35							4358.07	Treat mud in hole. Reduce wt to 1.91
29/8	3843	3	3											1595.79	Drill ahead.
30/8	3897	23		5		40	20							4791.53	Drill ahead with diamond bit.
31/8	4001	34	5	5		30	15							7948.09	Drill ahead.
1/9	4108	99	2	15		50	25							16929.38	Drill ahead.
2/9	4152	12	4	8		10	5	40						6811.13	Drill to 4152m. POH.
3/9	4172	10	2	1		5		13						3300.77	Test BOP's. RIH. Drill to 4172m.
4/9	4217	31	1			40	20	10				4	63	10959.60	Drl, stuck at 4211m, Spot Pipe Lax, POH.
5/9	4217			1				17						1305.59	Log, wiper trip, POH.
6/9	4217	48		1										6835.49	Log, wiper trip, POH.
7/9	4223	24										2	38	5404.08	Log, RIH, Drill to 4223m. POH.
8/9	4243	62	6					10						11896.74	Drl to 4237. Work stuck pipe free.



# DAILY MATERIALS CONSUMPTION

WELL STATOIL, 30/2-1

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DATE 1982	DEPTH M	BARITE	BENTONITE	CAUSTIC	SODA ASH	LIME	GYP	CMC HV	CMC LV	SPERSENE	XP-20	PIPE LAX	OILFAZE	SE-11	DAILY MUD COST	REMARKS	
8/9				CONTINUED												11896.74	Drill to 4243m.
9/9				NO MATERIALS			ADDED									0	Work on BOP's. RIH. Wiper trip. Circulate.
10/9	4243	9	3			1		2								2852.76	POH. Test BOP's. Log.
11/9	4243	5		1		2	7	1								1492.86	Log. RIH. Drill fish. Work stuck pipe free. POH.
12/9	4243			NO MATERIALS			USED									0	Log
13/9	4243	2														283.92	Log, RIH, pipe stuck. Spot pipe lax, POH.
14/9	3838			2			2									81.94	Spot cement plugs.
15/9	3820	16		5			6		2							2548.26	Cmt squrrze Treat for contamination.
16/9	3834								1							25.32	Perforate + squeeze cmt.
17/9	3797	16	1	3			1									2741.42	Build 14m new mud.
18/9	3797			NO ADDITIVES												0	Rig to test.
19/9	3797		7	10	5	6	50									6990.10	Condition mud. Build 40m <sup>3</sup> vol.
20/9	3797	74		10	5							6				11260.57	Wt up new mud. CMC-pill-Halliburton.
21/9	3797			NO ADDITIVES												0	Rig to test.
22/9	3797			NO ADDITIVES												0	Rig to test. Test well.
23/9	3797			NO ADDITIVES												0	Ran DST on formation.
24/9	3797			NO ADDITIVES												0	Shut in well for pressure test.
25/9	3797	13														1845.48	Squeezed cmt. 3797m.
26/9	3745	10						3								1995.30	Perforated & squeezed cmt 3745m
27/9	3770	3														425.88	Running CBL.
28/9	3770	2				1										801.35	Running 3 1/2" tubing.
29/9	3730			NO ADDITIVES												0	Pressure testing lines.
30/9	3730					1										21.41	Flow well.
1/10	3730	4						1								759.74	Shut-in well.
2/10	3730	10														1419.60	Circulate POH.
3/10	3730	12														1703.52	Set cmt plug. Perforate. Set retainer.







# WELL SUMMARY

STATOIL, 30/2-1

DAILY MUD PROPERTIES



# DAILY MUD PROPERTIES

Well: Statoil, 30/2-1

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1982 DATE	M DEPTH	WT.	VIS SEC.	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	\$ TOTAL MUD COST	
				PV	YP	0	10		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.			
16/5	-	1.03	100+	-	-				SPUD MUD																	35.0	7327.46
17/5	216	1.03	100+	-	-																					35.0	9957.86
18/5	216	1.03	100	5	13																					30.0	11354.22
19/5	216	1.06	100	5	12																					-	12643.93
20/5	268	1.06	70	7	16	9	42																			-	18996.75
21/5	748	1.07	40	6	18	8	43																			-	19053.15
22/5	1034	1.06	34	5	18	-	-																			-	21811.23
23/5	277	1.07	39	5	18	-	-																			-	27228.62
24/5	750	1.05	104	8	27	-	-																			-	28229.68
25/5	874	1.05	101	8	27	-	-																			-	32653.75
26/5	1035	1.05	44	6	15	-	-																			-	35862.54
27/5	1035	1.10	40	6	23	5	6																			-	37436.80
28/5	1035	1.10	42	6	30	10	20																			-	47849.73
29/5	1104	1.10	33	4	13	5	6	10.8	20.0		5000	.3	.4	.7	380		5	95	21	17	15	14	7	6	20.0		53400.08
30/5	1370	1.10	38	5	11	10	30	9.6	19.6		10000	.2	.4	.5	720		6	94	21	16	13	11	6	4	27.5		69434.15
31/5	1495	1.11	43	6	15	18	43	9.0	20.2		10000	.1	.3	.2	800		6	94	27	21	17	15	13	12	32.5		77568.17
1/6	1695	1.11	41	7	15	24	56	9.2	14.4		11000	.1	.4	.3	720		6	94	29	22	18	16	14	13	30.0		79923.57
2/6	1860	1.27	65	11	17	28	70	8.8	13.0		11000	.1	.3	.3	680		10	90	35	25	21	18	13	12	32.5		105104.15
3/6	1932	1.40	52	17	13	9	54	9.2	9.2		11500	.1	.4	.3	680		16	84	47	30	21	16	9	8	37.5		133949.35
4/6	1932	1.52	56	25	20	15	55	9.6	9.8		11500	.2	.5	.5	600		19	81	70	45	35	25	12	10	29.0		164257.63
5/6	1954	1.52	52	20	14	8	42	9.4	9.0		11500	.1	.4	.4	600		19	81	54	34	26	17	6	5	27.5		176811.53
6/6	1990	1.52	58	20	15	8	39	9.0	8.0		12500	.1	.4	.5	640		19	81	53	34	26	17	5	4	27.5		177434.93
7/6	2020	1.52	65	14	17	10	39	9.2	9.7		12500	.1	.4	.4	600		19	81	45	31	23	16	5	4	27.5		178498.53
8/6	2060	1.52	58	20	19	10	45	9.5	8.2		12500	.2	.7	.6	640		20	80	59	39	30	20	8	7	27.5		185306.03
9/6	2125	1.60	60	26	17	10	50	10.0	7.5		13000	.2	1.0	.9	600		22	78	69	43	34	22	7	6	30.0		203576.12
10/6	2156	1.60	70	24	18	9	59	10.0	8.5		13000	.2	.9	.8	600		21	79									214211.28
11/6	2156	1.60	60	23	11	6	36	9.9	8.8		13000	.3	1.0	.8	580		21	79									222635.71
12/6	2156	1.60	56	19	9	4	16	10.0	7.2		13000	.35	1.1	.8	560		21	79									223461.71

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# DAILY MUD PROPERTIES

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1982	M	WT.	VIS	CORR. 115°F		GELS		pH	FLUID LOSS			CL <input checked="" type="checkbox"/> CACL <input type="checkbox"/> NAACL <input type="checkbox"/>	ALKALINITY				RETORT			V.G. METER READING @ 115°						Bbl	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	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.	CEC					
13/6	2156	1.60	56	19	11	5	15	10.0	7.4	-	13000	.3	1.1	.8	560	0	21	79																246358.25
14/6	2156	1.60	57	21	10	3	24	9.6	6.0	-	13000	.18	.75	2.0	390	1	21	78															249197.45	
15/6	2156	1.60	57	21	10	3	24	9.3	6.0	-	13000	.18	.75	2.0	390	1	21	78															277112.81	
16/6	2156	1.60	65	24	10	3	26	9.5	5.6	-	13000	.18	.75	2.0	560	3	21	76															277112.81	
17/6	2156	1.60	58	23	10	3	26	9.5	5.6	-	13000	.18	.75	2.0	560	3	21	76															277112.81	
18/6	2158	1.60	57	24	12	7	44	10.5	6.0	12.5	13000	.5	1.5	1.6	450	3	21	76															291404.22	
19/6	2227	1.70	58	23	10	5	38	10.4	6.5	15	13000	.5	2.4	1.8	490	3	24	73															311128.42	
20/6	2357	1.70	55	23	9	5	37	10.3	6.5	15	13100	.4	2.3	1.7	480	3	24	73															321521.35	
21/6	2497	1.71	59	24	10	5	38	10.0	4.9	16	13200	.4	1.5	1.8	470	3	24	78															328589.62	
22/6	2600	1.77	63	25	13	5	41	9.4	4.9	16.5	13200	.3	1.4	1.7	420	3	26	71															341867.11	
23/6	2706	1.77	63	26	13	5	41	9.6	4.9	17	13300	.2	1.4	1.8	390	2.5	26	71															352427.19	
24/6	2794	1.77	65	27	13	6	42	9.8	4.6	17	13300	.3	1.6	1.6	360	2	27	71															358426.64	
25/6	2814	1.77	61	29	13	7	38	10.5	6.8	20	13500	.6	2.8	2.2	360	2	26	72	71	42	30	20	4	3	25.0							364747.14		
26/6	2851	1.77	56	20	12	4	28	9.5	6.2	16	13500	.5	2.3	1.9	380	1.5	26	71	52	32	24	14	3	2	25							370141.62		
27/6	2930	1.77	54	26	12	4	32	9.6	6.6	16.2	13500	.2	1.4	2.0	380	1	26	73	64	38	28	18	4	3	24							377735.64		
28/6	2948	1.77	55	26	15	4	41	9.8	6.8	16.8	13500	.2	1.8	2.1	360	1	26	73	67	41	31	19	4	3	22.5							382376.75		
29/6	3028	1.77	57	26	13	4	40	9.6	6.8	16.6	13500	.3	1.9	2.2	340	.5	26	73	65	39	27	19	4	3	23.0							384743.41		
30/6	3115	1.80	48	25	17	4	34	9.9	8.0	17.6	17200	.4	2.5	2.2	450	.5	27	72	62	37	25	15	4	3	25.0							408792.17		
1/7	3204	1.80	49	26	14	4	44	8.9	8.9	20	18000	.2	2.0	1.8	460	.5	28	72	66	40	30	19	4	3	26.0							412691.87		
2/7	3286	1.80	59	25	18	5	48	9.4	10.2	36	20000	.15	1.4	2.2	500	.5	29	70	68	43	32	21	5	4	31.0							423054.95		
3/7	3363	1.80	54	27	15	5	45	9.2	7.4	22	20000	.15	1.7	1.9	500	TR	28	72	69	42	30	20	4	3	27.5							433289.25		
4/7	3432	1.80	52	25	15	4	34	9.2	6.6	16	21000	.2	2.0	1.9	500	TR	28	72	65	40	30	19	4	3	29.0							435717.80		
5/7	3501.82		52	26	18	5	44	9.8	6.2	15	23000	.4	2.6	1.8	490	-	30	70	70	44	34	22	6	5	28							438572.23		
6/7	3501	1.82	47	24	16	4	48	10.0	6.2	14.4	23000	.4	2.8	1.6	480	-	29	71	64	40	30	21	4	3	27.5							451494.46		
7/7	3501	1.82	50	24	15	4	47	9.7	6.2	14.0	21000	.3	2.5	1.6	480	-	29	71	63	39	29	20	4	3	27.5							462179.86		
8/7	3501	1.82	48	23	10	4	32	10.2	5.6	14.0	21000	.6	2.6	2.0	380	TR	30	70														465605.76		
9/7	3501	1.82	62	24	12	5	34	10.0	5.8	14.0	21000	.5	2.6	2.0	380	TR	30	70														465605.76		
10/7	3501	1.82	58	24	12	5	38	9.6	4.8	13.5	21000	.15	1.4	1.0	360	TR	30	70														468561.72		

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# DAILY MUD PROPERTIES

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1982 DATE	M DEPTH	S.G WT.	VIS SEC.	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	\$ TOTAL MUD COST									
				PV	YP	0	10		BECK <input checked="" type="checkbox"/> STRIP <input type="checkbox"/>	100 PSI API	500 PSI 300 °F HT-HP		10000	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.								
11/7	3501	1.82	73	21	16	7	52	9.1	4.8	13	21000	.1	1.3	1.1	360	TR	30	70																		468561.72
12/7	3501	1.82	48	21	9	3	20	10.6	6.8	12.5	19000	.5	2.6	2.3	240	TR	30	70																	472501.69	
13/7	3501	1.82	52	24	10	3	26	10.6	6.8	12	19000	.5	2.5	2.3	200	TR	30	70																	473281.63	
14/7	3501	1.82	51	21	10	3	20	10.6	6.4	12	19000	.5	2.5	2.3	200	TR	30	70																	473281.63	
15/7	3501	1.82	50	21	10	3	21	10.6	6.4	12	19000	.5	2.5	2.3	200	TR	30	70																	473281.63	
16/7	3501	1.82	48	21	10	3	29	12.0	8.4	13.5	19000	.75	5.4	3.25	TR	TR	30	70																	473630.10	
17/7	3517	1.82	60	23	11	4	29	10.8	8.4	14	20000	.45	5.2	3.25	280	TR	30	70																	480083.40	
18/7	3548	1.82	61	32	12	5	45	11.2	7.6	14	20000	.4	4.1	3.2	200	TR	29	71																	481832.52	
19/7	3601	1.82	58	28	13	5	46	11.0	7.6	14	19500	.35	3.75	3.25	160	TR	30	70																	490039.63	
20/7	3630	1.85	60	27	12	6	44	10.9	7.6	14	19500	.3	3.25	3.1	320	TR	30	70																	497291.32	
21/7	3678	1.89	58	31	15	7	45	10.3	6.4	13	20000	.25	2.2	3.35	360	TR	31	69																	507743.88	
22/7	3696	1.91	55	27	11	6	36	10.8	6.8	14	20000	.5	4.2	2.9	380	TR	31	69	65	38	28	17	4	3	30.0									513521.34		
23/7	3696	1.91	52	27	9	5	26	10.5	7.0	15	20000	.5	4.2	3.2	380	TR	31	69	63	36	26	16	3	2	29.0									513521.34		
24/7	3691	1.91	57	27	7	4	26	10.8	7.4	15	20000	.5	3.4	2.4	440	TR	30	70	61	34	24	15	4	2	22.5									519242.64		
25/7	3710	1.91	47	22	8	4	28	11.0	5.0	16	20000	.7	4.2	2.4	360	TR	30	70	52	30	20	14	3	2	28.0									526842.20		
26/7	3717	1.91	51	26	7	3	15	10.8	5.0	14	20000	.6	4.6	3.4	300	TR	30	70	59	33	23	14	3	2	28									532597.65		
27/7	3735	1.91	54	25	8	4	32	10.4	5.6	22	20000	.6	3.6	3.2	400	TR	30	70	58	33	24	14	3	2	28									532881.57		
28/7	3758	1.91	55	27	10	5	34	10.2	5.5	20	20000	.6	3.0	4.2	420	TR	30	70	64	37	27	16	3	2	27.5									534869.01		
29/7	3776	1.91	48	24	7	4	28	10.6	4.8	16.6	20000	.8	3.6	3.8	360	TR	30	70	55	31	21	12	3	2	27.5									543437.01		
30/7	3794	1.91	53	24	10	6	36	10.3	4.8	17	20000	.4	3.4	3.9	400	TR	30	70	58	34	25	17	3	2	25									543437.01		
31/7	3836	1.91	44	21	8	5	28	10.8	5.5	17	18000	.6	3.2	3.9	380	TR	30	70	50	29	20	13	4	3	25									568400.07		
1/8	3836	1.91	46	20	8	5	27	10.5	5.1	16	19000	.6	3.2	3.8	360	TR	29	71	48	28	20	13	4	3	22.5									582634.22		
2/8	3836	1.91	45	22	6	5	26	10.5	5.0	16	20000	.5	3.5	3.8	360	TR	30	70	50	28	20	12	4	3	22.5									584606.22		
3/8	3836	1.91	44	21	6	5	25	10.6	5.2	16.8	20000	.6	3.2	4.0	360	TR	30	70	48	27	18	11	4	3	22.5									596061.87		
4/8	3836	1.91	49	20	12	8	35	10.1	5.8	16	21000	.4	2.8	3.5	340	TR	31	69	52	32	27	18	6	5	22.5									601172.43		
5/8	3836	1.91	48	20	11	7	34	12.0	6.4	16.5	15000	1.5	5.2	-	340	TR	31	69	52	33	26	18	6	5	22.5									614210.65		
6/8	3836	1.91	45	21	7	3	28	10.5	6.4	16	16000	.21	2.0	-	240	TR	31	69	49	28	19	12	5	4	22.5									626702.33		
7/8	3836	1.91	47	22	8	4	28	10.4	6.6	16.5	17000	.35	1.8	2.95	320	TR	31	69	52	30	24	15	3	2	25.0									663313.18		

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1982 DATE	M DEPTH	S.G. WT.	VIS SEC.	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	\$ TOTAL MUD COST
				PV	YP	0	10		BECK <input checked="" type="checkbox"/> STRIP <input checked="" 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.		
8/8	3836	1.91	50	29	13	10	34	9.8	5.8	16	17000	.28	1.3	-	240	0	31	69	71	42	36	25	7	4	27.5	671673.43	
9/8	3836	1.91	55	25	11	5	29	10.8	5.4	16	17000	.92	3.2	-	320	0	31	69	61	36	27	18	5	3	27.5	672315.73	
10/8	3836	1.91	61	24	12	6	32	10.5	5.6	-	18000	.87	3.35	4.87	200	0	31	69	60	36	31	21	6	5	27.5	672315.73	
11/8	3836	1.91	59	27	10	3	30	11.0	6.0	18	16000	.95	3.5	3.7	200	1	30	69	64	37	27	16	4	3	20.0	684278.77	
12/8	3836	1.91	61	31	7	4	14	11.5	6.6	18.5	16000	1.2	3.5	3.1	160	6	26	68	69	38	26	14	4	3	27.5	688614.82	
13/8	3836	1.91	66	36	6	5	24	11.0	4.6	16	17000	.75	3.0	4.15	200	4	31	65	78	42	30	12	4	3	30.0	689678.68	
14/8	3836	1.91	80	40	8	4	32	10.5	6.6	17	16000	.55	3.75	3.54	160	3	31	66	88	48	34	19	4	3	30.0	690458.62	
15/8	3836	1.91	100	47	10	7	54	11.0	6.8	22	18000	1.0	3.6	3.5	160	4	32	64	104	57	44	25	8	5	30.0	706331.14	
16/8	3836	2.15	75	44	13	14	86	12.5	13.2	24.5	18000	.68	8.0	3.2	240	2	38	60	101	57	43	24	8	5	21.25	720669.10	
17/8	3836	2.15	94	56	9	23	73	11.5	8.0	17	19000	2.0	5.2	3.8	280	5	38	57	138	79	56	33	13	10	22.5	734360.23	
18/8	3836	2.15	84	50	13	17	73	12.0	10.0	19.5	17000	1.9	8.4	3.9	200	3	38	59	113	63	47	29	8	6	21.25	735353.95	
19/8	3836	2.15	85	44	22	17	70	12.0	10.6	20	19000	1.9	7.2	2.7	320	3	38	59	108	64	48	38	9	6	21.0	735353.95	
20/8	3836	2.15	86	44	20	17	70	11.4	10.6	20	19000	1.9	7.0	2.6	320	3	38	59	108	64	45	35	8	6	21.0	735353.95	
21/8	3836	2.15	79	45	18	16	64	11.6	10.4	20	19000	1.7	6.9	2.6	320	3	38	59	108	63	42	14	8	6	20.0	741032.35	
22/8	3836	2.15	73	44	16	14	62	11.4	10.4	-	19000	1.8	6.9	2.7	320	3	38	59	104	60	40	14	8	6	20.0	742026.09	
23/8	3836	1.95	53	26	12	5	26	11.0	12.6	-	19000	0.6	4.3	2.9	380	2	34	64	64	38	28	18	11	5	27.5	743160.86	
24/8	3836	1.95	53	26	12	5	26	11.0	12.6	-	19000	0.6	4.3	2.9	380	2	34	64	64	38	28	18	11	5	27.5	743160.86	
25/8	3836	1.91	50	25	11	5	24	10.8	12.8	-	19000	0.5	4.0	2.3	380	2	31	67	64	38	28	18	9	4	27.5	743160.86	
26/8	3836	1.91	50	25	11	5	24	10.8	12.8	-	19000	0.5	4.0	2.3	380	2	31	67	-	-	-	-	-	-	25.0	743160.86	
27/8	2900	1.91	52	27	14	12	48	10.6	13.2	27	19000	1.4	6.0	3.8	420	2	32	66	68	41	31	20	9	7	24.0	746745.78	
28/8	3824	1.91	46	30	8	4	28	11.6	13.2	28	20000	1.3	6.8	3.6	450	2	32	66	68	38	28	18	4	3	25.0	751103.85	
29/8	3843	1.91	46	24	9	5	38	11.0	12.2	26	20000	1.0	6.0	2.9	420	2	32	66	57	33	22	13	4	3	27.5	752699.64	
30/8	3897	1.91	47	26	8	6	34	11.0	11.6	28	20000	1.0	5.2	3.2	400	2	31	67	60	34	24	14	3	2	27.5	757491.17	
31/8	4001	1.91	52	27	9	6	47	11.0	13.0	29	20000	0.7	4.8	3.5	360	2	31	67	63	36	25	15	4	3	24.0	765439.26	
1/9	4108	1.91	57	27	10	8	48	11.0	11.2	-	19000	0.4	4.0	2.5	350	2	31	67	64	37	27	15	4	3	25.0	782368.64	
2/9	4152	1.91	58	28	6	3	26	11.2	8.8	18.5	19000	1.0	4.4	5.15	320	1	31	68	62	34	24	14	3	2	25.0	789179.77	
3/9	4172	1.91	57	30	8	4	29	10.9	9.0	20	19000	0.8	3.0	4.8	320	1	31	68	68	38	26	16	4	2	25.0	792480.54	
4/9	4217	1.91	59	30	9	7	32	10.9	9.8	22	17000	.62	3.5	1.34	320	1	31	68	69	39	28	15	4	2	25.0	803440.14	

DATE SPUD:

17th May 1982

DATE T.D.:

COST:



# DAILY MUD PROPERTIES

Well: STATOIL, 30/2-1

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1982	M	WT.	VIS		CORR. 115°F		GELS		pH		FLUID LOSS		CL <input type="checkbox"/>	CA <input type="checkbox"/>	ALKALINITY			RETORT			V.G. METER READING @ 115°						Bbl	\$ 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	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.	CEC		
5/9	4217	1.91	65	33	9	7	42	11.0	8.8	21	17000	1.2	3.25	4.6	320	1	31	68	75	42	30	19	4	3	25.0	804745.73		
6/9	4217	1.91	63	30	10	5	38	11.2	9.0	25	16000	0.8	4.2	4.0	440	1	31	68	70	40	29	18	4	3	31.25	811581.22		
7/9	4223	1.91	64	33	9	4	34	11.1	8.0	30.5	18000	.75	3.1	2.8	400	1	31	68	75	42	31	18	4	3	25.0	816985.30		
8/9	4243	1.91	58	29	9	6	34	11.2	9.8	24	16000	.65	3.6	3.15	320	1	31	68	67	38	28	17	3	2	25.0	828882.04		
9/9	4243	1.91	75	36	13	7	52	11.0	8.4	22	15000	0.4	2.5	2.2	400	1	31	68	85	49	37	23	5	3	25.0	828882.04		
10/9	4243	1.91	71	34	11	8	42	11.1	8.8	22	18000	0.6	2.8	2.4	320	1	31	68	84	48	36	23	5	4	25.0	831734.80		
11/9	4243	1.91	78	36	10	5	34	11.1	8.6	22.5	18000	.75	2.4	2.15	360	1	31	68	82	46	35	21	4	3	25.0	833227.66		
12/9	4243	1.91	75	37	9	6	38	11.0	8.4	22	18000	0.6	2.4	2.2	380	1	31	68	83	46	34	21	5	4	25.0	833227.66		
13/9	4243	1.91	62	33	9	5	33	11.1	10.8	31	17000	.65	3.0	2.65	410	2	31	67	75	42	30	19	4	3	25.0	833511.58		
14/9	3838	1.91	68	37	12	6	43	11.4	11.6	44	18000	1.4	4.5	3.8	320	2	30	68	86	49	37	23	5	4	22.5	833593.52		
15/9	3820	1.91	68	32	12	7	44	11.4	11.0	42	18000	0.8	4.2	3.3	360	2	30	68	76	44	34	21	5	4	22.5	836141.78		
16/9	3834	1.91	64	35	13	10	52	10.8	10.1	40	18000	0.7	4.0	3.2	360	2	30	68	83	48	35	22	5	4	20.5	836167.10		
17/9	3797	1.91	60	34	11	8	48	10.7	10.2	41	18000	0.6	4.0	3.0	360	2	30	68	80	46	34	22	4	3	20.0	838908.52		
18/9	3797	1.91	60	34	12	4	50	10.7	10.1	41	18000	0.6	3.8	3.0	360	2	30	68	80	46	35	24	5	4	20.0	838908.52		
19/9	3797	1.91	54	26	11	11	38	10.9	8.5	26	18000	1.1	4.4	3.4	350	2	30	68	63	37	25	17	3	2	21.0	845899.62		
20/9	3797	1.91	52	26	11	11	40	10.9	8.5	26	18000	1.0	4.5	3.4	350	2	30	68	63	37	25	17	3	2	21.0	857159.19		
21/9	3797	1.91	54	27	12	11	42	10.8	8.5	26	18000	0.8	4.0	3.2	350	2	30	68	63	37	25	17	3	2	21.0	857159.19		
22/9	3797	1.91	55	26	12	12	44	10.8	8.5	26	18000	0.8	4.0	3.2	350	2	30	68	64	38	26	18	4	3	21.0	857159.19		
23/9	3797	1.91	55	34	12	14	54	10.5	8.6	27	18000	0.6	3.8	2.8	350	2	30	68	64	38	26	18	4	3	21.0	857159.19		
24/9	3797	1.91	55	34	12	14	54	10.5	8.6	26	18000	0.6	3.8	2.8	350	2	30	68	64	38	26	18	4	3	21.0	857159.19		
25/9	3797	1.91	52	31	11	10	48	10.8	9.6	27.5	18000	0.8	3.8	2.9	360	2	30	68	-	-	-	-	-	-	-	859004.67		
26/9	3745	1.91	58	32	10	10	47	10.8	9.8	28	18000	0.8	3.8	2.9	360	2	30	68	-	-	-	-	-	-	-	860999.97		
27/9	3770	1.91	60	32	12	11	46	10.9	9.4	28	18000	0.7	3.9	2.8	370	2	30	68	-	-	-	-	-	-	-	861425.85		
28/9	3770	1.91	60	32	12	11	46	10.9	9.4	28	18000	0.7	3.9	2.8	-	2	30	68	-	-	-	-	-	-	-	862227.20		
29/9	3770	1.91	61	32	11	11	48	10.9	9.5	28	18000	0.8	3.5	2.7	370	2	30	68	-	-	-	-	-	-	-	862227.20		
30/9	3730	1.91	56	28	10	8	47	10.8	10.0	30	18000	0.6	3.1	2.6	400	2	30	68	66	38	26	18	3	2	20.0	862248.61		
1/10	3730	1.91	61	31	12	11	52	11.0	10.0	30	18000	0.5	3.0	2.8	380	2	30	68	74	43	32	21	5	4	20.0	863008.35		
2/10	3730	1.91	55	28	9	8	46	11.1	10.4	32	17000	0.4	2.9	2.7	400	2	30	68	65	37	28	18	4	3	20.0	864427.95		

DATE SPUD:

17th May 1982

DATE T.D.:

COST:



# DAILY MUD PROPERTIES

Well : STATOIL, 30/2-1

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1982	M	WT.	SEC.	VIS		GELS		pH	FLUID LOSS		CL	BECK STRIP	100 PSI API	500 PSI 300 °F HT-HP	CA	ALKALINITY			RETORT			V.G. METER READING @ 115°						Bbl	CEC	\$ TOTAL MUD COST
				PV	YP	0	10		CA	PF						PM	MF	%	%	%	600 R.P.M.	300 R.P.M.	200 R.P.M.	100 R.P.M.	6 R.P.M.	3 R.P.M.				
				115°F					ppm	OIL						SOL	WATER	R.P.M.	R.P.M.	R.P.M.	R.P.M.	R.P.M.	R.P.M.							
3/10	3730	1.91	58	27	11	9	48	11.0	10.2	32	17000				0.5	3.1	2.25	400	2	30	68	65	38	29	19	5	4	20.0	866131.47	
4/10	3730	1.91	60	29	12	12	54	11.2	10.8	33.5	17000				.65	3.82	.65	400	1	30	69	70	41	31	22	6	5	20.0	866720.72	
5/10	3730	1.91	59	28	12	12	53	11.0	10.8	33	17000				0.4	2.9	1.8	400	1	30	69	68	40	31	22	6	5	20.0	868352.42	
6/10	3730	1.91	57	26	13	11	50	11.0	10.6	32.5	17000				0.4	2.9	1.7	400	1	30	69	65	39	30	20	6	5	20.0	868352.42	
7/10	3730	1.91	55	28	13	13	56	10.6	11.6	41	17000				0.3	2.6	2.3	480	1	30	69	69	41	30	21	6	5	20.0	868352.42	
8/10	3684	1.91	53	27	10	9	44	11.0	11.8	42	17500				.35	2.75	.35	400	1	30	69	64	37	27	18	5	4	20.0	870666.60	
9/10	2800	1.91	50	25	10	9	46	11.2	12.0	44.5	17000				0.4	2.8	2.5	480	TR	30	70	60	35	26	17	5	4	20.0	871376.40	
10/10	2100	1.91	53	26	10	8	44	10.8	12.4	46	17000				.35	2.65	.35	380	TR	30	70	62	36	26	17	5	4	20.0	872303.42	
11/10	970	1.91	63	27	16	16	62	11.8	10.6	-	17000				0.8	2.75	2.0	34	-	-	-	-	-	-	-	-	-	-	874658.57	

DATE SPUD: \_\_\_\_\_ DATE T.D.: \_\_\_\_\_ COST: \_\_\_\_\_



Well 30/2-1	<b>FLOW DATA</b>	CHP/PG A1-14
DST no. 1		Perfs.: 3785-92 m RKB
		Zone tested Rannoch

Date/ time	Bottom hole		Well head		Chokes 1/64"		Separator data						Liq. and gas analysis					
	press. bar	temp °C	press bar	temp. °C	mani- fold	heat.	press. bar	temp. °C	gas rate 10 <sup>6</sup> Sm <sup>3</sup> /D	oil rate Sm <sup>3</sup> /D	GOR Sm <sup>3</sup> /Sm <sup>3</sup>	sp.gr.oil	sp.gr.gas (Air=1)	Water %	Sedim. %	CO <sub>2</sub> %	H <sub>2</sub> S ppm	BSW %
23/9																		
16:00	584.7	145.9	339.2	72.8	32		63.1	42.2	0.687	329	2088	0.806	0.689			1	-	2.0
16:30	584.6	145.9	337.8	74.4	"		63.1	40.0	0.083	325	2102	0.806	0.692					2.0
17:00	584.5	146.4	338.7	75.6	"		62.4	41.4	0.677	323	2096	0.806	0.692					1.8
17:30	588.1	146.4	342.7	77.2	"		61.3	42.8	0.687	324	2120	0.806	0.693					0.7
18:00	588.5	146.4	345.8	80.0	"		61.7	42.4	0.687	320	2147	0.806	0.693					1.8
18:30	587.4	146.4	343.3	78.3	"		61.3	45.6	0.682	318	2145	0.806	0.695			2	-	1.2
19:00	586.3	146.4	343.1	78.9	"		61.3	45.6	0.682	314	2172	0.806	0.695					1.3
19:30	584.8	146.4	343.3	81.7	"		61.0	46.7	0.684	312	2192	0.806	0.695					2.0
20:00	584.2	146.4	343.4	81.7	"		65.1	47.8	0.674	312	2160	0.805	0.695			2	-	2.0
20:30	583.0	146.9	342.8	81.1	"		65.1	47.8	0.674	312	2160	0.804	0.695					2.0
21:00	582.1	146.9	342.0	80.0	"		65.1	47.8	0.674	311	2167	0.804	0.695					2.0
21:30	581.2	146.9	342.1	80.0	"		65.1	47.2	0.675	311	2170	0.804	0.695					2.0
22:00	582.6	146.9	341.7	80.0	"		65.1	47.2	0.675	311	2170	0.804	0.695			2	-	2.0
22:30	581.7	146.9	340.2	79.4	"		65.1	47.2	0.675	308	2192	0.804	0.695					2.0
23:00	582.7	146.9	344.2	79.4	"		65.1	47.2	0.675	311	2170	0.804	0.695					2.0
23:30	584.4	146.9	344.7	81.7	"		65.1	47.2	0.675	308	2192	0.804	0.695					3.0
24:00	585.2	146.9	344.7	82.2	"		65.5	47.8	0.677	307	2205	0.804	0.695					3.0

Remarks

- Bottomhole temperature and pressure measurements from  
Sperry Sun MK III nr. 0054

Well 30/2-1	<b>FLOW DATA</b>	CHP/PG A2-15
DST no- 2		Perfs.: 3761-3771 m RKB
		Zone tested Etive

Date/ time	Bottom hole		Well head		Chokes 1/64"		Separator data						Liq. and gas analysis						
	press. bar	temp °C	press. bar	temp. °C	mani- fold	heat.	press. bar	temp. °C	gas rate 10 <sup>6</sup> Sm <sup>3</sup> /D	oil rate Sm <sup>3</sup> /D	GOR Sm <sup>3</sup> /Sm <sup>3</sup>	sp.gr.oil	sp.gr.gas (Air=1)	Water %	Sedim. %	CO <sub>2</sub> %	H <sub>2</sub> S ppm	BSW %	
30/9																			
17.30	617	143	244	96	48	-	65	71	1.040				0.690			4	0	3.0	
18.00	618	143	244	96	48	-	65	71	1.032	417.1	2474	0.807							
18.30	618	143	243	97	48	-	65	70	1.023	418.4	2445								
19.00	618	143	243	98	48	-	65	70	1.023	416.9	2454	0.800							
19.30	619	143	244	99	48	-	65	72	1.024	417.6	2552	0.807	0.695					2.5	
20.00	620	143	243	99	48	-	64	72	1.026	411.4	2494		0.700		3	0			
20.30	620	143	244	99	48	-	64	72	1.026	415.1	2472	0.807						3.0	
21.00	620	143	244	99	48	-	65	73	1.026	415.7	2471							2.5	
21.30	621	143	244	100	48	-	65	73	1.030	415.0	2470								

Remarks

Well 30/2-1	<b>FLOW DATA</b>	CHP/PG A3-12
DST no. 3		Perfs.: 3720-3728 m RKB
		Zone tested ETIVE

Date/ time 6/10	Bottom hole		Well head		Chokes 1/64"		Separator data						Liq. and gas analysis					
	press. bar	temp °C	press. bar	temp. °C	manifold	heater	press. bar	temp. °C	gas rate 10 <sup>6</sup> SM <sup>3</sup> /D	oil rate Sm <sup>3</sup> /D	GOR Sm <sup>3</sup> /Sm <sup>3</sup>	sp.gr.oil	sp.gr.gas (Air=1)	Water %	Sedim. %	CO <sub>2</sub> %	H <sub>2</sub> S ppm	BSW %
1600	546.7	141.9	375.4	83	32		61	48	751.3	317.5	2403	0.805	0.682			5		2.5
1700	546.8	142.4	378.6	83	32		61	52	743.0	325.8	2281	0.807	0.684			4		2.6
1800	547.3	142.9	380.8	85	32		61	54	742.4	314.0	2364	0.806	0.684			3.7		2.5
1900	547.5	142.9	381.8	87	32		61	56	740.5	313.0	2366	0.794	0.684			4		2.5
1930	547.6	142.9	382.4	87	32		61	56	737.6	311.3	2369	0.806	0.687			4		2.5
2000	547.7	142.9	382.4	87	32		61	56	737.6	313.0	2357	0.806	0.687			4		1.8
2030	547.6	143.4	234.3	87	32		61	56	737.6	312.6	2360	0.805	0.687			4		1.8
2230	542.3	143.4	240.6	89	48		63	66	996.9	403.5	2471	0.809	0.692			4		1.5
2330	542.5	143.9	241.5	91	48		63	68	1012	398.9	2537	0.809	0.692			4		1.5
7/10																		
2400	542.6	143.9	242.5	93	48		63	69	1017	406.4	2502	0.809	0.692			4		1.5
0030	542.7	143.9	242.2	93	48		63	69	1016	389.1	2611	0.809	0.692			4		1.8
0100	542.8	143.9	242.7	95	48		63	71	1013	398.3	2543	0.814	0.692			4		1.8
0130	543.8	143.9	243.6	95	48		63	69	1020	395.0	2582	0.814	0.692			3		1.8
0200	544.0	143.9	243.8	95	48		63	71	1016	396.3	2564	0.814	0.692			3		1.8

Remarks



RFT Sampling Data

Date : 4.8.82  
Run no. : 6  
Sample no. : 1  
Depth : 3791 m  
Type of sample : segregated  
Max. recorded temp.: 134.4° C

2 3/4 Gallon Chamber

Flowing time : 230 sek.  
Minimum flowing pressure : 330 bar  
Shut in pressure : 672.5 bar  
Opening pressure : 97.5 bar  
Recoveries : 9500 cc filtrate, 0.137 m<sup>3</sup> gas

The gas was analysed on the rig and contained:

C<sub>1</sub>: 91%, C<sub>2</sub>: 6%, C<sub>3</sub>: 2.2%, IC<sub>4</sub>: 0.5%, NC<sub>4</sub>: 0.3%

1 Gallon Chamber

Flowing time : 220 sek.  
Minimum flowing pressure: 290.5 bar  
Shut-in pressure : 672 bar  
Opening pressure : 75 bar  
Recoveries : 3265 cc filtrate



RFT Sampling Data

Date : 4.8.82  
Run no. : 6  
Sample no. : 2  
Depth : 3763 m

2 3/4 Gallon Chamber

Flowing time : 485 sek.  
Minimum flowing pressure: 663 bar  
Shut-in pressure : 673 bar  
Opening pressure : 230 bar  
Recoveries : 850 cc condensate

Well 30/2-1	RFT DATA	Run no.5 (Schlumb. numeration)
Formation: Brent		

Test no	Depth m	Cor hydr. pr. before test bar	Cor. hydr. pr. before test (g/cc)	Cor. formation pres. bar	Cor. formation pres. (g/cc)	Cor. hydr. pr. after test bar	Cor. hydr. pr. after test (g/cc)	Remarks
1	3675.5	690.01	1.914	-----	-----	689.87	1.913	no seal
2	3681	691.04	1.914	-----	-----	690.97	1.914	no seal
3	3682	691.66	1.915	672.25	1.861	691.25	1.914	good perm.
4	3683	691.11	1.913	672.18	1.861	691.04	1.913	medium perm.
5	3685.5	691.73	1.913	-----	-----	691.52	1.913	no seal
6	3677	689.45	1.912	-----	-----	689.45	1.912	tight
7	3676	690.08	1.914	-----	-----	690.08	1.914	tight
8	3675.5	690.08	1.914	-----	-----	689.94	1.914	no seal
9	3685	691.39	1.913	-----	-----	691.04	1.912	tool unstable
10	3684.5	690.90	1.912	673.22	1.863	690.90	1.912	partially plugged

Well 30/2-1	RFT DATA	Run no. 6 (Schlumberger numbering)
Formation: Brent		

Test no	Depth m	Cor hydr. pr. before test bar	Cor. hydr. pr. before test (g/cc)	Cor. formation pres. bar	Cor. formation pres. (g/cc)	Cor. hydr. pr. after test bar	Cor. hydr. pr. after test (g/cc)	Remarks
1	3682	688.21	1.905	671.87	1.860	688.21	1.905	good perm.
2	3707	692.70	1.905	672.49	1.850	692.63	1.905	good perm.
3	3709	692.90	1.905	-----	-----	693.11	1.905	poor perm, seal failure
4	3721	695.25	1.905	673.05	1.844	695.25	1.905	good perm.
5	3724	695.66	1.904	673.11	1.843	695.66	1.904	good perm.
6	3727	696.07	1.904	673.25	1.842	695.94	1.904	good perm.
7	3731.5	696.49	1.903	673.25	1.839	696.49	1.903	good perm.
8	3736	697.35	1.903	673.46	1.838	697.35	1.903	good perm.
9	3741	698.25	1.903	674.22	1.837	698.18	1.903	medium perm.
10	3752	700.11	1.902	674.08	1.831	700.11	1.902	good perm.
11	3763	702.04	1.902	674.42	1.827	702.04	1.902	good perm.
12	3766	702.45	1.902	674.56	1.826	702.38	1.901	good perm.
13	3772	703.14	1.900	674.70	1.823	703.00	1.900	good perm.
14	3776	703.69	1.900	674.98	1.822	703.55	1.900	good perm.
15	3783.5	704.93	1.899	676.22	1.822	704.52	1.898	tightish, gas in flowline
16	3791	706.31	1.899	675.67	1.817	706.11	1.899	medium perm.
17	3795	707.28	1.900	-----	-----	-----	-----	tight
18	3791.5	706.04	1.898	-----	-----	-----	-----	tight, no sample
19	3791	705.83	1.898	675.60	1.817	705.35	1.897	sample; 2 3/4 gall. + 1 gall.
20	3763	703.11	1.905	675.67	1.830	703.18	1.905	sample 2 3/4 gall.
21	3707	692.83	1.905	673.80	1.853	692.83	1.905	sampling failed

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