Well no: 2/1-07 Operator: BP

Coordinates : 56 51 49.85 N UTM coord. : 6302375 03 05 41.88 E 505790

Licence no : 19 Permit no : 431

Riq : GLOMAR MORAY F.I Rig type : JACK-UP

Contractor : GLOBAL MARINE DRILLING COMPANY

Bottom hole temperature : 165.5 deg.C Elev. KB : 38 M

Spud. date : 84.09.06 Water depth : 69 M

Compl. date : 85.03.06 Total depth : 5464 M

Spud. class : WILDCAT Form. at TD : PERMIAN

Compl. class : P&A. DRY HOLE Prod. form :

Seisloca : 80 - 30A SP. 1630

LICENSEES

26.625000 BP PETROLEUM DEVELOPMENT OF NORWAY A.S

19.375000 CONOCO NORWAY INC.

4.000000 KS PELICAN & CO A/S

50.000000 DEN NORSKE STATS OLJESELSKAP A.S

CASING AND LEAK-OFF TESTS

Type	Casing diam.	Depth below KB	Hole diam.	Hole depth below KB	Lot mud eqv. g/cm3
		- dia dia			and date one and then
CONDUCTOR	30	171.0	36	171.0	
SURF. COND.	20	745.0	26	755.0	1.70
INTERM.	13 3/8	2473.0	17 1/2	2490.0	1.92
INTERM.	9 5/8	3873.0	12 1/4	<i>3878.0</i>	2.12
LINER	7	5076.0	8 1/2	5464.0	2.20

CONVENTIONAL CORES

Core no.	Intervals cored	Recovery		Series
	meters	M	~	
1	5115.0 - 5124.2	9.2	100.0	PERMIAN
2	5124.2 - 5125.5	1.3	100.0	PERMIAN
3	5125.5 - 5127.0	1.5	100.0	PERMIAN
4	5147.0 - 5165.0	18.0	100.0	PERMIAN

MUD PROPERTIES

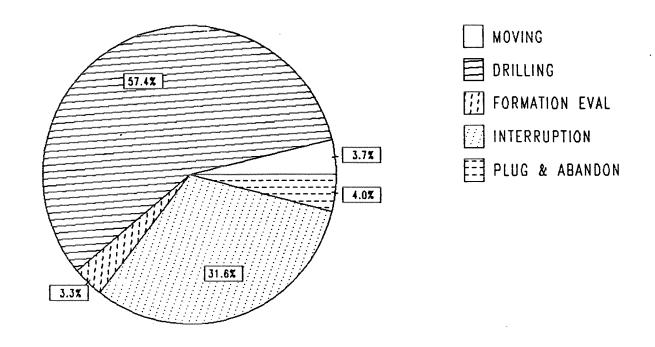
Depth below KB meter	Muđ weigth g/cm3	Plastic viscosity mPa.s	Muđ type
151.000	1.03		WATER BASED
220.000	1.06		WATER BASED
521.000	1.08	4.0	WATER BASED
755.000	1.12	5.0	WATER BASED
937.000	1.15	14.0	WATER BASED
1170.000	1.21	14.0	WATER BASED
1397.000	1.38	14.0	WATER BASED
1684.000	1.45	16.0	WATER BASED
1840.000	1.48	26.0	WATER BASED
2136.000	1.50	32.0	WATER BASED
2277.000	1.55	30.0	WATER BASED
2683.000	1.57	23.0	WATER BASED
3702.000	1.60	31.0	WATER BASED
3747.000	1.58	34.0	WATER BASED
3858.000	1.62	36.0	WATER BASED
3878.000	1.65	37.0	WATER BASED
3904.000	1.80	30.0	WATER BASED
3919.000	1.85	30.0	WATER BASED
4333.000	1.84	47.0	WATER BASED
4677.000	1.90	57.0	WATER BASED
4870.000	1.94	62.0	WATER BASED
5066.000	1.96	70.0	WATER BASED
5081.000	1.92	56.0	WATER BASED
5089.000	1.93	54.0	WATER BASED
5185.000	1.72	29.0	WATER BASED
5465.000	1.70	34.0	WATER BASED
			··

DRILL STEM TEST NO DST'S WERE PERFORMED IN THIS WELL DRILL BIT CUTTINGS AND WET SAMPLES SAMPLE TYPE INTERVAL NUMBER OF SAMPLES Cutting Wet Samples SHALLOW GAS Interval REMARKS below KB NONE

AVAILABLE LOGS

LOG TYPE	INTERVALS	1/200 1	/500
ISF SLS SP GR ISF SLS ISF SLS MSFL SP CAL		X	
ISF SLS	744 - 2462	X	
ISF SLS MSFL SP CAL	2473 - 3879	X	•
ISF SLS MSFL SP CAL	3876 - 4292	X	
TSF STS MSRT. SP CAT.	5083 - 5103	Y	
ISF SLS MSFL	171 - 5193	1:1000	X
BHC MSFL CAL	3876 <i>- 50</i> 81	x	x
LDL CNL NGT LDL CNL	3876 - 5072	x	X
LDL CNL	5083 - 5194	X	X
DLL MSFL NGT SP	3876 - 5079	x	X
DLL MSFL NGT SP DLL SP			
CDM AP SHDT CYBERDIP	3876 - 4294	X	X
SHDT	3876 - 4293	X	
CYBERDIP	3876 - 4293	X	X
NGT RATIOS PLAYBACK	3876 - 5062	x	X
RFT, 6 SECS. RFT, 6 SECS. RFT, 6 SECS.	5077 - 5103	X	
RFT, 6 SECS.	5115 - 5145	X	
RFT, 6 SECS.	5111 - 5179	X	
CBL BOND INDEX	450 - 1000	X	X
CBL BOND INDEX CBL VDL	2350 - 5077	X	X
MUD	200 - 5465		x
VELOCITY	140 - 5150		X
(+ Synthetic Seismogram,	Geogram, 10 + 20	cm/s,	6 stk)
(+ V.S.P.	150 - 5185		1 stk)

DAILY DRILLING REPORT SYSTEM Main operation 02/01-07:



Total:

4488 HRS

Main operation	Minutes	Hours	% of total
MOVING	9975	166.25	3.70
DRILLING	154515	2575.25	57.38
FORMATION EVAL	9000	150.00	3.34
INTERRUPTION	8505 0	1417.50	31.58
PLUG & ABANDON	10740	179.00	3.99

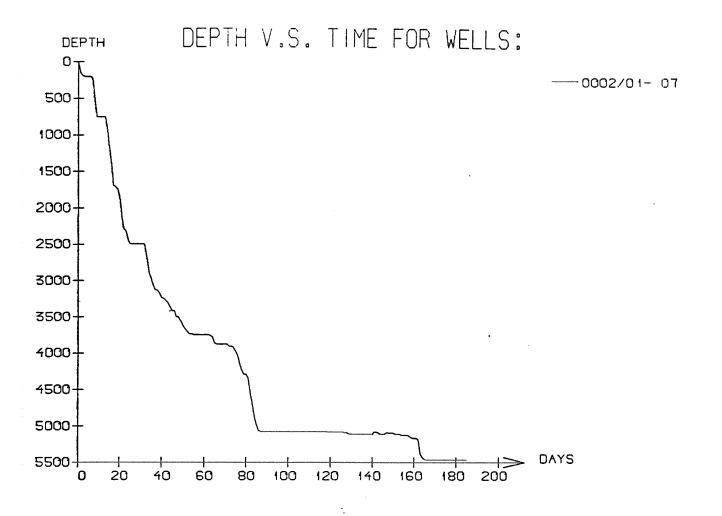
MAIN OPERATIONS WELL: 02/01-07

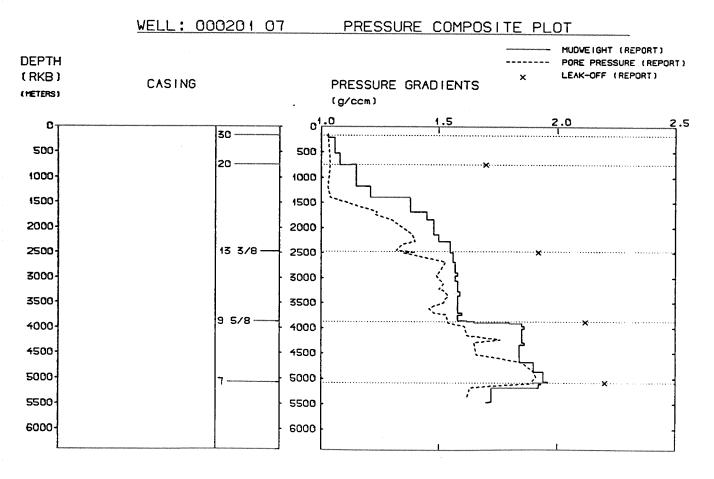
MAIN OPERATION: DRILLING					
Sub operations	Min	Hrs	% of total		
TRIP HOLE OPEN SURVEY DRILL REAM CIRC/COND CASING BOP/WELLHEAD EQ OTHER BOP ACTIVITIES PRESS DETECTION WAIT	38670	644.50	25.03		
SURVEY	2415	2.50 40.25	0.10 1.56		
DRILL REAM	59325 7845	988.75	38.39		
CIRC/COND	8325	138.75	5.39		
BOP/WELLHEAD EO	18330 13425	305.50 223.75	11.86		
OTHER ROP ACTIVITATES	135	_2.25	0.09		
PRESS DETECTION	3405 1110	57.75 18.50	2.24 0.72		
WAIT	1320 	22.00	0.85		
TOTAL	154515	2575.25			
MAIN OPERATION: MOVIN	1G				
Sub operations	Min	Hrs	% of total		
JACK	3410	56.83	34.19		
SKID .	2630	43.83 43.83	2.91 26.37		
JACK ANCHOR SKID TRANSIT	3645	60.75	36.54		
TOTAL	9975	166.25			
MAIN OPERATION: FORM					
Sub operations	Min	Hrs	% of total		
LOG	7350	122.50 14.50 7.50 5.50	81.67		
CORE REF/FIT	870 450	14.50 7.50	9.67 5.00		
CORE REF/FIT CIRC SAMPLES TOTAL	330	5.50	3.67		
TOTAL	9000	150.00			
MAIN OPERATION: INTER					
Sub operations	Min	Hrs	% of total		
MAINTAIN/REP LOST CIRC FISH WAIT SIDETRACK	5415	90.25	6.37		
FISH	63360	1056.00	74.50		
WAIT SIDETRACK	510 15600	8.50 260 00	18.34		
TOTAL		1417.50			
MAIN OPERATION: PLUG					
Sub operations	Min		% of total		
TRIP					
CIRC/COND	195	41.25 3.25 14.25 15.00 103.50 1.75	23.04 1.82		
CEMENT PLUG EQUIP RECOVERY	855 900	14.25 15.00	7.96 8.38		
CUT	6318	142.52	-5.22		
OTHER	9410	103.50	57.82 0.98		

10740 1

179.00

TOTAL





WELL HISTORY 2/1-7

GENERAL:

Wildcat well 2/1-7 was drilled on a previously undrilled structure in the center of block 2/1. The primary target was Rothliegendes sandstone in a large fault bounded structure mapped at base Zechstein Group level. A secondary objective was Upper Jurassic sandstone in a possible extention of the 2/1-north oil accumulation.

OPERATIONS:

The well was spudded 6 September 1984 by the jack-up rig Glomar Moray Firth I.

Loss of mud at 1710 m was stopped by pumping lost circulation material, without changing the mudweight.

Top chalk came in at 3190 m. This whole sequence was

Top chalk came in at 3190 m. This whole sequence was drilled with turbine.

At 3746 m the drillstring got stuck, and the tight interval was located between 2600-2900 m.

The string was freed by circulating acidulous mud. Full circulation was maintained during this whole operation. While pulling out to change bit at 5077 m the drillstring was lost in the hole. At the same time 170 bbls of mud was lost. One reason for this mudloss could be the "piston effect" caused by the drillstring falling down the hole. The pipe was fished out piece by piece, and the stabilisers above the bit were milled out.

At 5081 m the drillstring was screwed off 300 m above the bit. Fishing was successful and drilling continued. Drilling was stopped at 5113 m to perform pressure test. During this operation, before reliable results were obtained, the RFT-tool got stuck in the hole.

After extensive fishing the operator decided to plugg back and sidetrack the hole.

The technical sidetrack was kicked off at 5092 m, and drilled to 5119 m. Problems at this depth made another sidetrack nessesary, and the hole was plugged back to 4747 m and the new sidetrack was kicked off from 5080 m and drilled to a TD of 5464 m RKB, 5426 m MSL, which makes this hole 4 m short of beeing the deepest hole so far drilled in the Norwegian Sector.

The secondary objective, Upper Jurassic sandstone was absent in this hole.

Ula formation was water bearing.

Rothliegendes sand in the bottom of the well showed good reservoir qualities, but was also water bearing. There were no significant hydrocarbon shows in any section of the well.

4 cores were cut.

GEOLOGICAL TOPS

WELL: 2-1-7

Depth m (RKB)

Nordland Group	160
Hordaland Group	
Rogaland Group	2917
Balder Fm.	2917
Sele Fm.	2939
Forties Fm.	2948
Lista Fm.	3018
Maureen Fm. eqv.	3093
Chalk Group	3187
Ekofisk Fm.	3187
Tor Fm.	3275
Hod Fm.	3648
Blodøks Fm.	3771
Hidra Fm.	3786
Cromer Knoll Group	3802
${\it R\phi dby Fm.}$	3802
Sola Fm.	3886
Tyne Group	397 4
Mandal Fm.	3974
Haugesund Fm.	3996
Vestland Group	4024
Ula Fm.	4024
Bryne Fm.	4061
"Triassic Group"	4105
Zechstein Group	4332
Kupfer Schifer Fm.	5083
Rothliegende Group	5084
T.D.	5465