

Well no : 6407/05-01

Operator : MOBIL

Coordinates : 64 36 22.40 N
07 28 26.54 E UTM coord. : 7165626 N
426984 E

Licence no : 121 Permit no : 562

Rig : TREASURE SCOUT Rig type : SEMI-SUB.

Contractor : WILHELMOSEN OFFSHORE SERVICES

Bottom hole temperature : deg.C Elev. KB : 25 M

Spud. date : 87.12.11 Water depth : 0 M

Compl. date : 88.03.04 Total depth : 4306 M

Spud. class : WILDCAT Form. at TD : M. JURASSIC

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

Seisloca : MG 304 SP. 300

LICENSEES

10.000000 BRITOL NORGE A/S
 20.000000 NORSK HYDRO PRODUKSJON A.S
 20.000000 MOBIL DEVELOPMENT NORWAY 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/cm ³
CONDUCTOR	30	405.0	36	413.0	.
SURF.COND.	20	1000.0	26	1025.0	1.67
INTERM.	13 3/8	2041.0	17 1/2	2053.0	1.83
OPEN HOLE		4306.0	12 1/4	4306.0	.

CONVENTIONAL CORES

Core no.	Intervals cored meters	Recovery		Series
		M	%	
1	3964.0 - 3973.1	9.1	100.0	
2	4206.0 - 4220.7	14.7	100.0	

MUD PROPERTIES

Depth below KB meter	Mud weight g/cm ³	Viscosity	Mud type
314.000	1.04	0.0	WATER BASED
405.000	1.06	0.0	WATER BASED
410.000	1.08	0.0	WATER BASED
481.000	1.06	0.0	WATER BASED
596.000	1.05	1000.0	WATER BASED
596.000	1.03	0.0	WATER BASED

753.000	1.35	2900.0	WATER BASED
803.000	1.06	0.0	WATER BASED
1155.000	1.21	1100.0	WATER BASED
1313.000	1.58	12.0	WATER BASED
1467.000	1.21	1000.0	WATER BASED
1634.000	1.60	12.0	WATER BASED
1815.000	1.61	15.0	WATER BASED
1960.000	1.25	900.0	WATER BASED
2028.000	1.61	25.0	WATER BASED
2053.000	1.62	31.0	WATER BASED
2053.000	1.61	21.0	WATER BASED
2053.000	1.68	18.0	WATER BASED
2081.000	1.45	1800.0	WATER BASED
2213.000	1.68	30.0	WATER BASED
2218.000	1.45	1400.0	WATER BASED
3719.000	1.68	11.0	WATER BASED
3719.000	1.69	17.0	WATER BASED
3719.000	1.68	14.0	WATER BASED
4306.000	1.72	14.0	WATER BASED

DRILL BIT CUTTINGS AND WET SAMPLES

SAMPLE TYPE	INTERVAL BELOW KB	NUMBER OF SAMPLES

Cutting		
Wet Samples	1030-4306	330

SHALLOW GAS

Interval below KB	REMARKS

AVAILABLE LOGS

LOG TYPE	INTERVALS	1/200	1/500	Div.
DLWD	244.000 - 4206.000		X	
DIL BHC GR.	1000.000 - 2052.000	X		
DIL BHC GR	2042.000 - 4252.000	X		
DIL BHC GR	4252.000 - 4306.000	X		
DLL BHC PLAYBACK	1000.000 - 4306.000		X	
LDL CNL GR.	1000.000 - 2054.000	X		
LDL CNL GR NGS	1000.000 - 4308.000			
LDL CNL NGS	2042.000 - 4308.000	X		
DLL MSFL	3800.000 - 4301.000	X	X	
CDM AP/SHDT MSD	2045.000 - 4305.000	X	X	
CBL VDL GR	880.000 - 1445.000	X		
RFT STRAINGAUGE	3926.000 - 4289.000	X		
TEMP. DATA LOG	1025.000 - 4306.000			1:5000

DRILL. DATA PRESS.	244.000 - 4306.000	1:5000	
MUD LOG	244.000 - 4306.000		X
VELOCITY LOG	1000.000 - 4306.000	X	X
(Airgun velocity survey & calibr. log data		1 stk.)	
(Display of well velocity survey rec. 1-3		3 stk.)	
(VSP, 10 cm/s		11 stk.)	
(Synthetic seismogram, 10 cm/s		5 stk.)	
(Two-way travel time, 10 cm/s		1 stk.)	

MAIN OPERATIONS FOR WELL: 640705 01

Main operation: DRILLING

Sub operations	Minutes	Hrs	% of total
BOP ACTIVITIES	2730	45,5	3,37
BOP/WELLHEAD EQ	1320	22,0	1,63
CASING	9030	150,5	11,15
CIRC/COND	2100	35,0	2,59
DRILL	42210	703,5	52,13
HOLE OPEN	5220	87,0	6,45
OTHER	810	13,5	1,00
PRESS DETECTION	30	0,5	0,04
REAM	660	11,0	0,82
SURVEY	570	9,5	0,70
TRIP	15360	256,0	18,97
WAIT	930	15,5	1,15
Total	80970	1349,5	100,00

Main operation: FORMATION EVAL

Sub operations	Minutes	Hrs	% of total
CIRC SAMPLES	1020	17,0	7,47
CIRC/COND	270	4,5	1,98
CORE	1650	27,5	12,09
LOG	7050	117,5	51,65
TRIP	3660	61,0	26,81
Total	13650	227,5	100,00

Main operation: INTERRUPTION

Sub operations	Minutes	Hrs	% of total
MAINTAIN/REP	10950	182,5	45,85
WAIT	12930	215,5	54,15
Total	23880	398,0	100,00

Main operation: MOVING

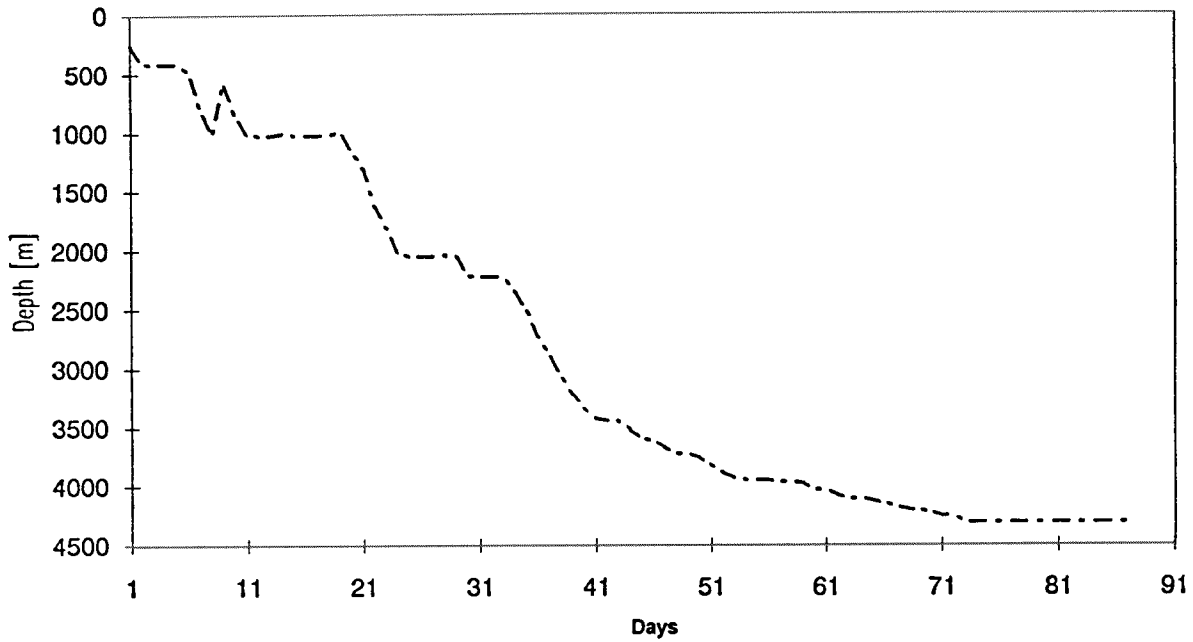
Sub operations	Minutes	Hrs	% of total
ANCHOR	1170	19,5	12,58
TRANSIT	8130	135,5	87,42
Total	9300	155,0	100,00

Main operation: PLUG & ABANDON

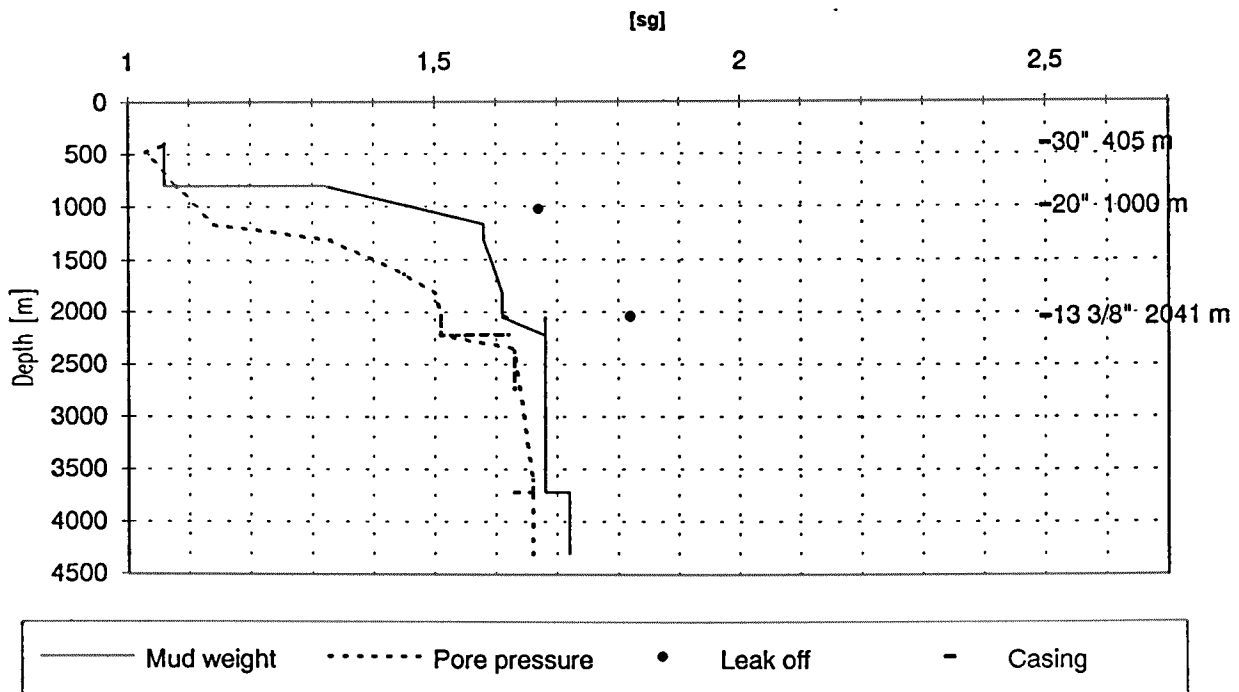
Sub operations	Minutes	Hrs	% of total
CEMENT PLUG	1650	27,5	26,96
CIRC/COND	180	3,0	2,94
CUT	1980	33,0	32,35
EQUIP RECOVERY	570	9,5	9,31
OTHER	900	15,0	14,71
TRIP	840	14,0	13,73
Total	6120	102,0	100,00

Total time used 2232 hrs (93 days)

Depth v.s. time plot for well: 640705 01



Composite plot for well: 640705 01



Well History 6407/5-1

GENERAL:

Well 6407/5-1 was situated in the Haltenbanken area, on the eastern limits of the Halten Terrace adjacent to the Trøndelag Platform. The primary target for the well was an Early Cretaceous stratigraphic play, which had been interpreted seismically as a submarine fan deposit.

OPERATIONS:

Wildcat well 6407/5-1 was spudded 11 December 1987 by Wilh. Wilhelmsen A/S semi-submersible rig Treasure Scout and completed 4 March 1988 at a depth of 4306 m in Middle Jurassic rocks. Drilling proceeded without any significant problems. No shallow gas was encountered. There were no indications of sand in Early Cretaceous, nor in Late Jurassic. Seismics showed a wedge (the prospect), but there was no sand present.

The hole had an interesting development concerning Late Jurassic. The logs showed two well-defined hot shales which have not been observed before. It was not clear if the upper is a product of the lower due to erosion.

2 cores were cut in the intervals 3964 - 3973.1 m and 4206 - 4224 m.

The Fangst Group had small indications of hydrocarbons, but the sediments had porosity less than 6%. Attempts of RFT measurements, and samples, were unsuccessful because of the tight formation. This led to no tests being performed. There were no noticed closures at Fangst level.

The well was plugged and abandoned as dry.

TESTING:

No DST tests were performed in this well.

GEOLOGICAL TOPS

WELL: 6407/5-1

Depth m (RKB)

<i>Nordland Group</i>	244.0
<i>Naust Fm.</i>	244.0
<i>Kai Fm.</i>	1205.5
<i>Hordaland Group</i>	1277.0
<i>Brygge Fm.</i>	1277.0
<i>Rogaland Group</i>	1988.0
<i>Tare Fm.</i>	1988.0
<i>Tang Fm.</i>	2070.0
<i>Shetland Group</i>	2173.0
<i>Springar Fm.</i>	2173.0
<i>Nise Fm.</i>	2345.0
<i>Cromer Knoll Group</i>	2920.5
<i>Cromer Knoll Slide Block</i>	3605.0
<i>Viking Group Slide Block</i>	3629.0
<i>Spekk Fm. Slide Block</i>	3629.0
<i>Cromer Knoll Group</i>	3655.0
<i>Viking Group</i>	3872.0
<i>Spekk Fm.</i>	3872.0
<i>Melke Fm.</i>	4119.5
<i>Fangst Group</i>	4205.0
<i>Garn Fm.</i>	4205.0
<i>T.D.</i>	4306.0