

WDSS Report

Date: 30/09/96

PB/SKR

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Well no:	Operator:
6406/12-01 S	STATOIL

Well

Coordinates :	64° 04' 11.14" N 06° 43' 56.91" E	UTM coord. :	7106932.34 N 389379.24 E
License no :	157	Permit no :	662
Rig :	ROSS RIG	Rig type :	SEMI-SUB.
Contractor :	TRANSNOR RIG AS		
Bottom hole temp:	147 °C	Elev. KB :	23 M
Spud. date :	90.12.15	Water depth :	330 M
Compl. date :	91.02.28	Total depth :	3965 M
Spud. class :	WILDCAT	Form. at TD :	M.JURASSIC
Compl. class :	P&A. DRY HOLE	Prod.form. :	
Seisloca :	GHI 85 - 409 , SP 1545		

Licensees

10.000000 NORSKE CONOCO A/S
10.000000 PETROBRAS NORGE A/S
15.000000 PHILLIPS PETROLEUM NORSK AS
50.000000 DEN NORSKE STATS OLJESELSKAP A.S
15.000000 BP PETROLEUM DEV. OF NORWAY AS

Casing and Leak-off Tests

Type	Casing diam	Depth below KB	Hole diam.	Hole depth below KB	Lot mud eqv. g/cm3
CONDUCTOR	30	415.0	36	417.0	
INTERM.	20	951.0	26	955.0	1.72
INTERM.	13 3/8	2532.0	17 1/2	2534.0	1.82
OPEN HOLE		3965.0	12 1/4	3965.0	

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Conventional Cores

Core no.	Intervals cored meters	Recovery m	%
1	3603.0 - 3630.3	27.3	100.0
2	3630.3 - 3638.0	7.7	100.0
3	3816.0 - 3817.7	1.7	100.0

Mud

Depth	Mud weight	Visc.	Mud type
492.0			WATER BASED
512.0			WATER BASED
594.0	1.58	12.0	WATER BASED
924.0	1.03		WATER BASED
965.0	1.03		WATER BASED
988.0		23.0	WATER BASED
1321.0	1.25	25.0	WATER BASED
1356.0	1.25	25.0	WATER BASED
1516.0	1.35	23.0	WATER BASED
1579.0	1.35	23.0	WATER BASED
1781.0	1.45	21.0	WATER BASED
1815.0	1.55	21.0	WATER BASED
2015.0	1.60	33.0	WATER BASED
2026.0	1.60	33.0	WATER BASED
2093.0	1.60	29.0	WATER BASED
2156.0	1.60	29.0	WATER BASED
2200.0	1.60	30.0	WATER BASED
2317.0	1.58	20.0	WATER BASED
2330.0	1.60	34.0	WATER BASED
2339.0	1.60	29.0	WATER BASED
2525.0	1.60	31.0	WATER BASED
2543.0	1.60	30.0	WATER BASED
2546.0	1.50	18.0	WATER BASED
2549.0	1.50	16.0	WATER BASED
2827.0	1.50	20.0	WATER BASED
2918.0	1.50	19.0	WATER BASED
3000.0	1.50	17.0	WATER BASED
3053.0	1.50	19.0	WATER BASED
3074.0	1.50	18.0	WATER BASED
3154.0	1.50	21.0	WATER BASED
3252.0	1.50	21.0	WATER BASED

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3419.0	1.50	22.0	WATER BASED
3504.0	1.50	24.0	WATER BASED
3627.0	1.58	25.0	WATER BASED
3760.0	1.55	26.0	WATER BASED
3818.0	1.55	21.0	WATER BASED
3965.0	1.58	26.0	WATER BASED

Drill Stem Test (intervals and pressures)

Test no.	Test interval meter	Choke size	Pressure (psi) WHP	BTHP	FFP
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Drill Stem Test (recovery)

Test no.	Oil Sm3/d	Gas Sm3/d	Oil grav. g/cm3	Gas grav. rel. air	GOR m3/m3
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Drill Bit Cuttings and Wet Samples

Sample type	Interval below KB	Number of samples
WET SAMPLES	970 - 3964	240

Shallow Gas

Interval below KB	Remarks

Available Logs

Log type	Intervals logged	1/200	1/500
AMS	416.0 - 3928.0		
CBL VDL GR	750.0 - 2517.0		

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CST GR	2560.0 - 3940.0			
DIL LSS GR	416.0 - 3956.0			
FMS GR AMS	3523.0 - 3933.0			
LDL CNL GR	416.0 - 3936.0			
LDL GR	416.0 - 3936.0			
MUD	353.0 - 3965.0			
MWD RESISTIVITY Gamm	415.0 - 3958.0			
MWD RWD MD+TVD	423.0 - 3965.0			
PI LSS GR	3595.0 - 3956.0			
PI MSFL LSS GR	2529.0 - 3813.0			
RFT HP GR	3603.0 - 3627.0			
SYNTHETIC SEISMOGRAM				
TWO WAY TRAVEL TIME				
VELOCITY LOG	500.0 - 3875.0			
VSP				
VSP WALKAWAY				

Main operations for well: 6406/12-1 S**Main operation: DRILLING**

Sub operation:	Minutes:	Hours:	% of total:
BOP ACTIVITIES	2700	45,0	3,46
BOP/WELLHEAD EQ	5820	97,0	7,47
CASING	11040	184,0	14,16
CIRC/COND	1410	23,5	1,81
DRILL	35040	584,0	44,96
HOLE OPEN	5730	95,5	7,35
OTHER	2520	42,0	3,23
PRESS DETECTION	150	2,5	0,19
REAM	330	5,5	0,42
SURVEY	30	0,5	0,04
TRIP	9690	161,5	12,43
WAIT	3480	58,0	4,46
Total	77940	1299,0	100,00

Main operation: FORMATION EVAL

Sub operation:	Minutes:	Hours:	% of total:
CIRC/COND	120	2,0	1,22
CORE	390	6,5	3,95
LOG	6630	110,5	67,17
OTHER	450	7,5	4,56
RFT/FIT	390	6,5	3,95
TRIP	1890	31,5	19,15
Total	9870	164,5	100,00

Main operation: MOVING

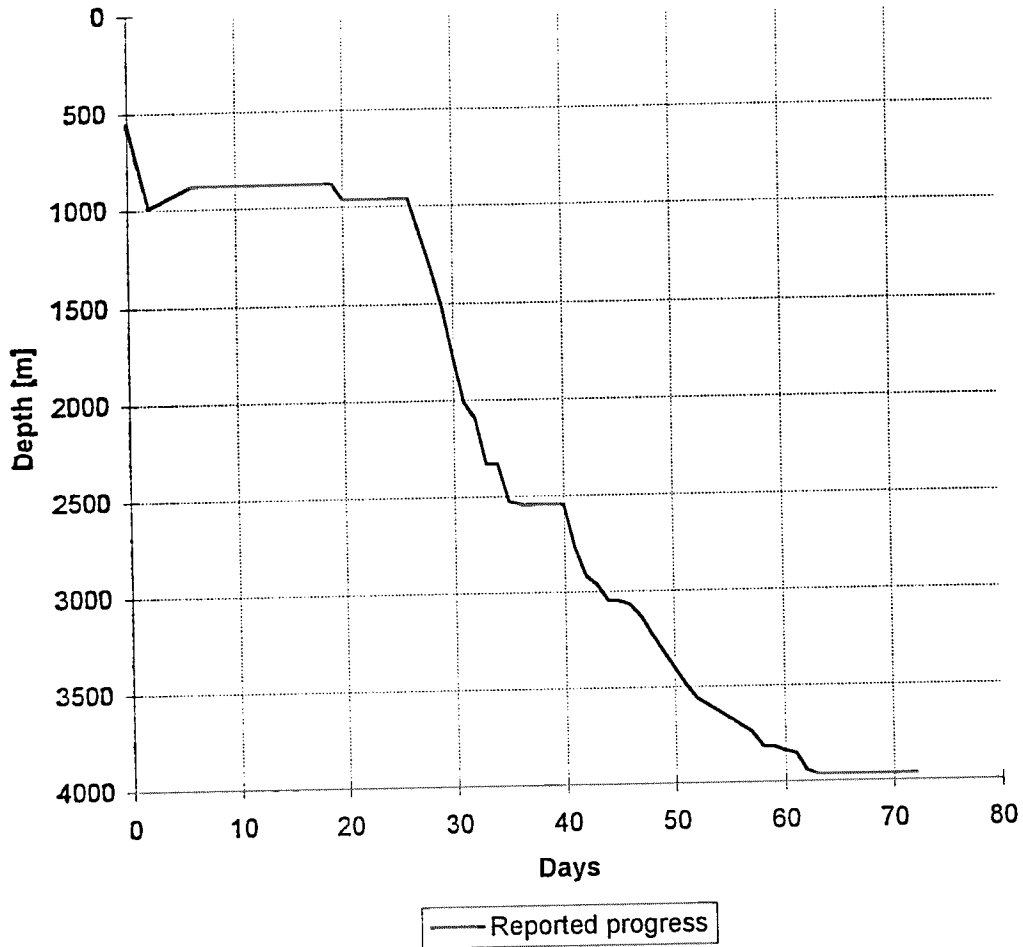
Sub operation:	Minutes:	Hours:	% of total:
ANCHOR	1080	18,0	38,30
OTHER	540	9,0	19,15
TRANSIT	1200	20,0	42,55
Total	2820	47,0	100,00

Main operation: PLUG & ABANDON

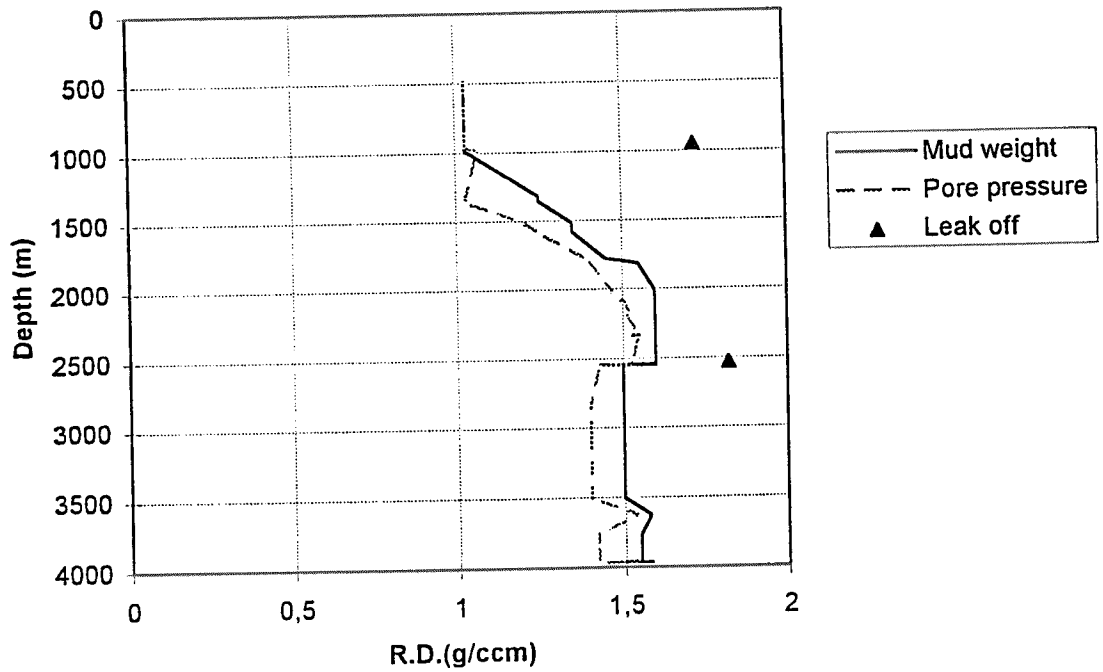
Sub operation:	Minutes:	Hours:	% of total:
CEMENT PLUG	630	10,5	10,77
CIRC/COND	840	14,0	14,36
EQUIP RECOVERY	1410	23,5	24,10
MECHANICAL PLUG	390	6,5	6,67
OTHER	210	3,5	3,59
PERFORATE	330	5,5	5,64
SQUEEZE	60	1,0	1,03
TRIP	1980	33,0	33,85
Total	5850	97,5	100,00

Total time used: Hours

Depth vs time for well: 6406/12-1 S



Composite plot for well: 6406/12-1 S



Well History 6406/12-01 S

General:

Well 6406/12-01 S was designed to drill the Kappa Prospect, which is located west of the Vingleia fault complex, and north-west of the Froya High in the south-eastern part of block 6406/12. Structurally the block is situated in the southern part of the Halten Terrace. The prospect was one of several prospective sequences in an Upper Jurassic fan complex mapped in the area. The prospect was a stratigraphical trap with no structural closure. The main objectives of the well were:

- 1) to test the hydrocarbon potential of Upper Jurassic sandstones in the Kappa prospect.
- 2) to explore possible Cretaceous or other Upper Jurassic sands, as a secondary target.
- 3) to test the geophysical and stratigraphical interpretation of the area and improve the geological, palaeontological and geochemical understanding.

No shallow gas warnings were given for this well. Large boulders present in the glacial deposits in the area might cause drilling problems in the 36" and 26" hole section. The pore pressure estimate for the Lete Jurassic were uncertain as one of the correlation wells (6406/8-1) penetrated highly overpressured formations and had serious drilling problems. The other correlation well (6407/10-2) did not penetrate any highly overpressured formation and had no serious drilling problems.

Operations:

Wildcat well 6406/12-01 S was spudded 15 December 1990, respudded 2 January 1991 by the semi-submersible rig Ross Rig and completed 1 March 1991 at a total depth of 3965 m RKB within the Middle Jurassic Melke Formation. A total of 3 conventional cores were cut in this well within the intervals 3603-3640m RKB and 3816-3818 m RKB. A total of 120 sidewall cores were attempted, and 61 were recovered. Top reservoir (Rogn Formation equivalent) was encountered at 3599.5 m RKB, which was 45 m lower than prognosed, and is proved to be water bearing. The pore pressure were 1.55 g/cm³, and gas values were generally low and decreasing downhole. No major problems occurred while drilling the well after respudding. The well was permanently plugged and abandoned as a dry well.

Testing:

No DST tests were performed

Geological Tops.

Well: 6406/12-1S

	Depth m (RKB).
Nordland Group	352.0
Naust Fm	352.0
Kai Fm	1167.0
Hordaland Group	1752.0
Brygge Fm	1752.0
Rogaland Group	2047.0
Tare Fm	2047.0
Tang Fm	2137.0
Shetland Group	2323.0
Springar Fm	2323.0
Nisce Fm.	2854.0
Kvitnos Fm	3095.0
Cromer Knoll Group	3478.0
Lange Fm	3478.0
Lyr Fm	3577.0
Viking Group	3599.5
Rogn Fm	3599.5
Spekk Fm	3649.0
Melke Fm	3727.0
T.D.	3965.0