Date: 23/09/96

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	Operator:
Vell no: 25/11-15	HYDRO

Well

Coordinates:

59° 11' 03.50" N

UTM coord.:

6560840.35 N

02° 29' 03.82" E

Permit no:

470534.45 E 704

License no:

169

Rig:

TRANSOCEAN 8 TRANSOCEAN ASA Rig type:

SEMI-SUB.

Contractor: Bottom hole temp:

76.6 °C

Elev. KB:

24 M

Spud. date:

91.11.10

Water depth:

127 M

Compl. date:

91.12.24

Total depth:

2035 M

Spud. class:

WILDCAT P&A. OIL DISCOVERY Form. at TD:

Compl. class:

Prod.form.:

Seisloca:

EV90-161, SP. 142/EB88-115,

SP. 2526

Licensees

10.000000 ESSO EXPL. & PROD. NORWAY A/S

30.000000 NORSK HYDRO PRODUKSJON AS

50.000000 DEN NORSKE STATS OLJESELSKAP A.S

10.000000 NORSKE CONOCO A/S

Casing and Leak-off Tests

Туре	Casing diam	Depth below KB	Hole diam.	Hole depth below KB	Lot mud eqv. g/cm3
CONDUCTOR	30	237.0	36	240.0	
INTERM.	9 5/8	1273.0	12 1/4	1275.0	1.71

Conventional Cores

ĺ	Core no.	Intervals cored	Recovery	%
1		meters	m	
	1	1680.0 - 1696.0	16.0	100.0

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UDDA
YDRO

7	1697.0 - 1705.8.	8.8	100.0
2	1708.0 - 1728.0	20.0	100.0
3	1728.0 - 1740.0	12.0	100.0
4	1740.5 - 1762.6	22.1	100.0
		18.5	100.0
7		15.5	100.0
6 7	1762.6 - 1781.1 1781.1 - 1796.6	18.5 15.5	100.0 100.0

Mud

Depth	Mud	Visc.	Mud type
· 1	weight		
238.0	1.20	19.0	WATER BASED
450.0	1.20	18.0	WATER BASED
1312.0	1.20	18.0	WATER BASED
1530.0	1.13	20.0	WATER BASED
1697.0	1.15	17.0	WATER BASED
1726.0	1.16	16.0	WATER BASED
1768.0	1.19	15.0	WATER BASED
1769.0	1.20	14.0	WATER BASED
1776.0	1.26	14.0	WATER BASED
1781.0	1.15	16.0	WATER BASED
1906.0	1.18	18.0	WATER BASED
2035.0	1.18	17.0	WATER BASED

Drill Stem Test (intervals and pressures)

1	Test	Test interval	Choke	·-	BTHP	FFP
	no.	meter	size	WHP		***************************************
	1.0	1736.0 - 1774.0	25.4		***************************************	

Drill Stem Test (recovery)

Ĭ	Test	Oil	Gas	Oil grav.	Gas grav.	GOR
1	no.	Sm3/d	Sm3/d	g/cm3	rel. air	m3/m3
	1.0	525	7500	0.940	0.640	14

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Well no:	Operator:
25/11-15	HYDRO

Drill Bit Cuttings and Wet Samples

Sample type	Interval below KB	Number of samples
WET SAMPLES	1320 - 2035	150
CUTTINGS	1305 - 2035	150

Shallow Gas

Interval	Remarks
below KB	

Available Logs

Log type	Intervals logged	1/200	1/500	
AMS	238.0 - 1993.0			
CBL VDL CCL GR	1100.0 - 1733.0	And have a contract and and an analysis of the contract and an		
CDM AP/SHDT MSD	1276.0 - 2010.0			
CST	1290.0 - 2006.0			
DIL LSS SP AMS GR	238.0 - 1269.0			
DIL LSS SP GR	238.0 - 2012.0			****
DIL LSS SP GR	1274.0 - 2012.0			
DLL MSFL SP SGR	1274.0 - 2016.0			
LDL CNL SGR	1274.0 - 2005.0			
LDL CNL SGR	1274.0 - 2005.0		**************************************	
MUD	151.0 - 2035.0			
MWD	150.0 - 2035.0			

NGS	1274.0 - 1996.0			
	Olivino de la companya del companya de la companya del companya de la companya de			
RFT HP	1485.0 - 1997.0			

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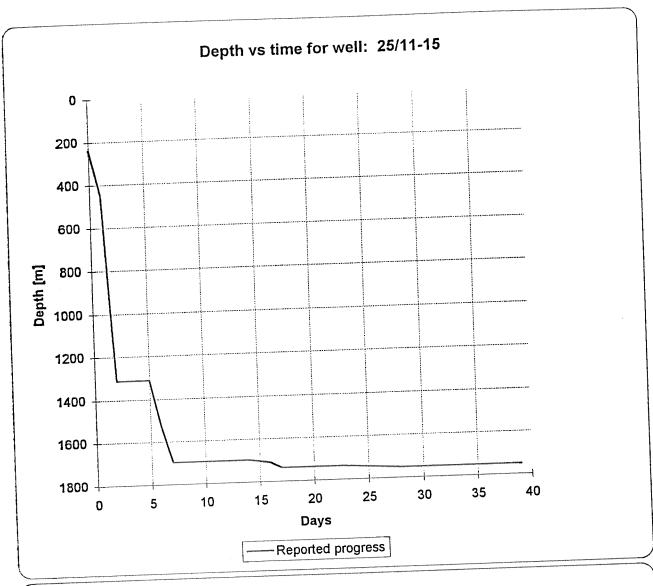
Well no:	Operator:
25/11-15	HYDRO

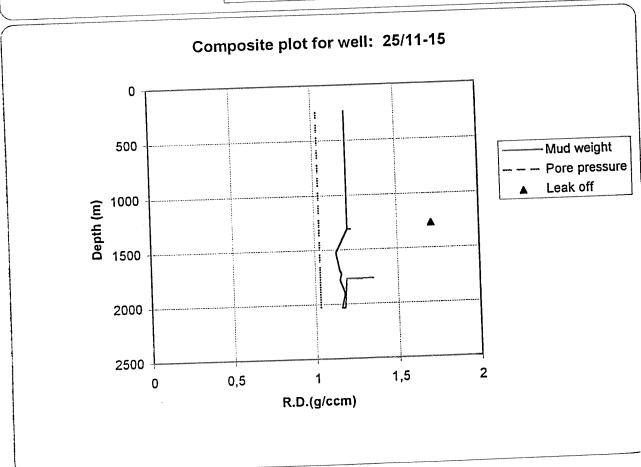
SHDT GR	1274.0 - 2013.0	
SITE SURVEY		
SYNTHETIC SEISMOGRAM		
TWO-WAY TRAVEL TIME	120.0 - 1960.0	
WALKAWAY VSP		
VSP		

Main operations for well: 25/11-15

Main operation: DRILLING

BOP ACTIVITIES	Sub operation:	Minutes:	Hours:	% of total:
BOPWELLHEAD EQ 1710 28,5 9,02 CASING 7350 122,5 38,77 CIRC/COND 240 4,0 1,27 DRILL 4200 70,0 22,15 HOLE OPEN 210 3,5 1,11 PRESS DETECTION 60 1,0 0,32 REAM 450 7,5 2,37 TRIP 4260 71,0 22,47 Total 18960 316,0 100,00 Main operation: FORMATION EVAL Sub operation: Minutes: Hours: % of total: CIRC SAMPLES 60 1,0 0,22 2C CIRC/COND 690 11,5 2,51 CORE 1890 31,5 6,87 DST 17910 298,5 65,10 LOG 3870 64,5 14,07 TRIP 2370 39,5 8,62 Total 27510 458,5 100,00 Main operation: Minutes:		480		
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CEMENT PLUG 210 3,5 8,86 CIRC/COND 150 2,5 6,33 CUT 90 1,5 3,80 MECHANICAL PLUG 150 2,5 6,33 SQUEEZE 30 0,5 1,27 TRIP 1740 29,0 73,42 Total 2370 39,5 100,00	Sub operation:	Minutes:		% of total:
CIRC/COND 150 2,5 6,33 CUT 90 1,5 3,80 MECHANICAL PLUG 150 2,5 6,33 SQUEEZE 30 0,5 1,27 TRIP 1740 29,0 73,42 Total 2370 39,5 100,00	***************************************			8,86
CUT 90 1,5 3,80 MECHANICAL PLUG 150 2,5 6,33 SQUEEZE 30 0,5 1,27 TRIP 1740 29,0 73,42 Total 2370 39,5 100,00				
MECHANICAL PLUG 150 2,5 6,33 SQUEEZE 30 0,5 1,27 TRIP 1740 29,0 73,42 Total 2370 39,5 100,00				
TRIP 1740 29,0 73,42 Total 2370 39,5 100,00				
Total 2370 39,5 100,00				
Postularia de la constantina della constantina d	TRIP	1740		
Total time used: 1200,0 Hours	Total	2370	39,5	100,00
	Total time used: 12	00,0 Hours		





Well History 25/11-15

General:

Well 25/11-15 was designed to test the hydrocarbon potential of the Heimdal sand in the Hermod prospect. Block 25/11 is located at the Utsira High, a large basement high, flanked by the Viking Graben to the west and the Stord Basin to the east.

The objectives of the well 25/11-15 were:

- 1) to test the hydrocarbon potential of the Palaeocene Heimdal sand within the 120 ms isopach structural closure in a position of good seismic coverage.
- 2) to obtain geological information to verify the geological and stratigraphical models.
- 3) to verify the depth conversion for the base Cretaceous level.
- 4) to test the direct hydrocarbon indicator seen in the seismic within the prospect at 1760 ms. Shallow gas was expected in sands at two levels. Prognosed TD was 2044 m RKB

Operations:

Wildcat well 25/11-15 was spudded 10 November 1991 by the semi-submersible rig Transocean 8 and completed 25 December 1991 at a total depth of 2035 m RKB in the Statfjord Formation. No significant problems occurred during the drilling operation. No shallow gas were encountered in this well. The Heimdal sand was encountered from 1734 m (11 m below predicted depth) to 1798 m RKB. Seven conventional cores were cut in the reservoir between 1680 m and 1799 m RKB, starting 7 m below the top Sele Formation and ending 1 m below the base of the Heimdal Formation. A total of 60 sidewall cores were attempted, and 35 were recovered. The well was permanently plugged and abandoned as an oil discovery.

Testing:

One DST tests were performed over the interval 1736-1775 m RKB in the Heimdal sand, yielding a maximum flow rate of 525 Sm³/d oil and 7500 Sm³/d gas through a 25.4 mm choke.

Geological Tops.

Well: 25/11-15.

	Depth m (RKB).
Nordland Group	150.0
Utsira Fm	798.0
Skade Fm	890.0
Hordaland Group	1018.0
Rogaland Group	1660.0
Balder Fm	1660.0
Sele Fm	1674.0
Lista Fm	1678.0
Heimdal Fm	1734.0
Lista Fm	1798.0
Vâle Fm	1807.0
Shetland Group	1818.0
Tor Fm	1818.0
Hod Fm	1867.0
Blodoks Fm	1894.0
Hidra Fm	1903.0
Viking Group	1977.5
Draupne Fm	1977.5
Statfjord Fm	1983.0
T.D.	2035.0