

## WDSS Report

Date: 03/03/98

PB/ABS

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<b>Well no:</b>	<b>Operator:</b>
<b>25/08-04</b>	<b>HYDRO</b>

### Well

Coordinates :	59° 15' 31.31" N 02° 36' 42.97" E	UTM coord. :	6569075.08 N 477871.28 E
License no :	169	Permit no :	738
Rig :	VILDKAT EXPLORER	Rig type :	SEMI-SUB.
Contractor :	ROSS OFFSHORE		
Bottom hole temp:	69 °C	Elev. KB :	25 M
Spud. date :	92.07.25	Water depth :	128 M
Compl. date :	92.08.11	Total depth :	1891 M
Spud. class :	WILDCAT	Form. at TD :	CRETACEOUS
Compl. class :	P&A. SHOWS	Prod.form. :	PALEOCENE
Seisloca :	EP 91-29, SP. 314		

### 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

Type	Casing diam	Depth below KB	Hole diam.	Hole depth below KB	Lot mud eqv. g/cm3
CONDUCTOR	30	241.0	36	242.0	
INTERM.	9 5/8	1300.0	12 1/4	1301.0	1.7

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### Conventional Cores

Core no.	Intervals cored meters	Recovery m	%
1	1659.6 - 1670.1	10.5	100.0
2	1672.5 - 1694.9	22.4	100.0
3	1695.5 - 1706.5	11.0	100.0
4	1722.5 - 1746.0	23.5	100.0
5	1746.0 - 1759.0	13.0	100.0
6	1759.0 - 1777.0	18.0	100.0
7	1777.0 - 1794.7	17.7	100.0
8	1794.7 - 1811.8	17.1	100.0
9	1812.5 - 1829.2	16.7	100.0
10	1830.5 - 1837.3	6.8	100.0
11	1837.0 - 1837.5	0.5	100.0

### Mud

Depth	Mud weight	Visc.	Mud type
241.0	1.28	20.0	WATER BASED
1673.0	1.28	18.0	WATER BASED
1723.0	1.29	17.0	WATER BASED
1759.0	1.30	16.0	WATER BASED
1812.0	1.29	16.0	WATER BASED
1837.0	1.30	16.0	WATER BASED
1840.0	1.30	17.0	WATER BASED
1891.0	1.30	18.0	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	1320 - 1890	210
CUTTINGS	1320 - 1890	150

### Shallow Gas

Interval below KB	Remarks

### Available Logs

Log type	Intervals logged	1/200	1/500
DIL DSI (FMD)NGL AMS	1299.0 - 1886.0		
DIPOLE SONIC	1300.0 - 1870.0		
DLL MSFL GR AMS SP	1299.0 - 1886.0		
DSI UPPER DIPOLE	1299.0 - 1886.0		
FMI LQC LOG	1299.0 - 1888.0		
FORMATION EVALUATION	155.0 - 1891.0		
GASCHROMATOLOG	1310.0 - 1850.0		
LDL CNL GR AMS	1299.0 - 1875.0		
LITHOLOG	155.0 - 1870.0		
MSD	1299.0 - 1888.0		
MWD	155.0 - 1891.0		
NGS RATIOS	1299.0 - 1886.0		

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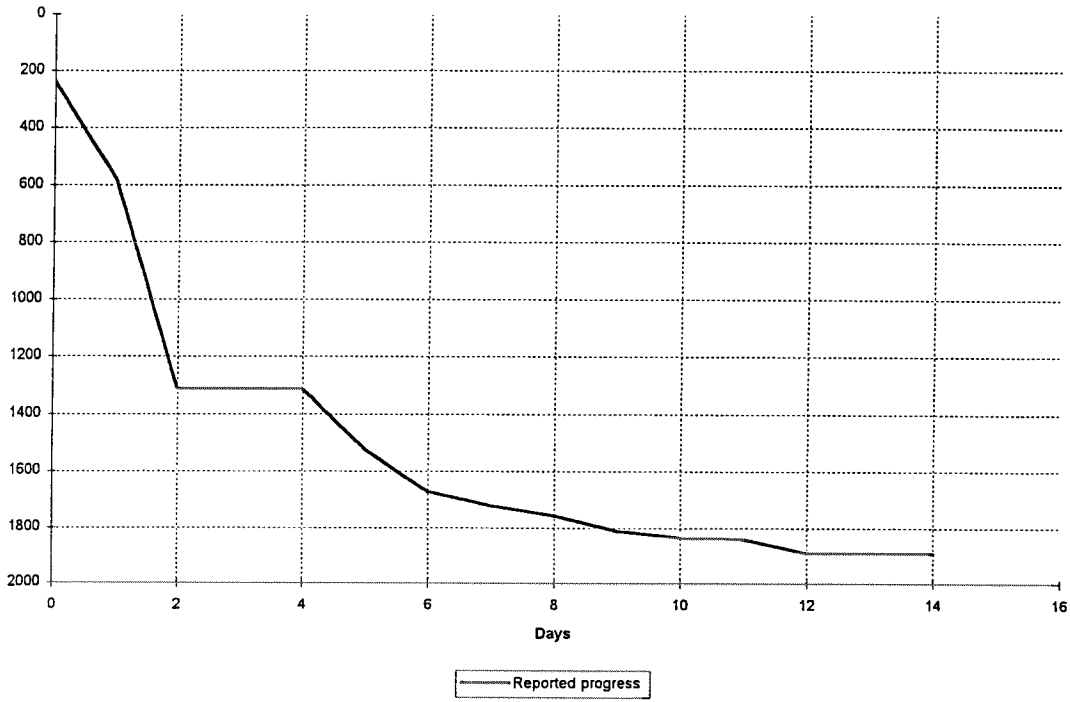
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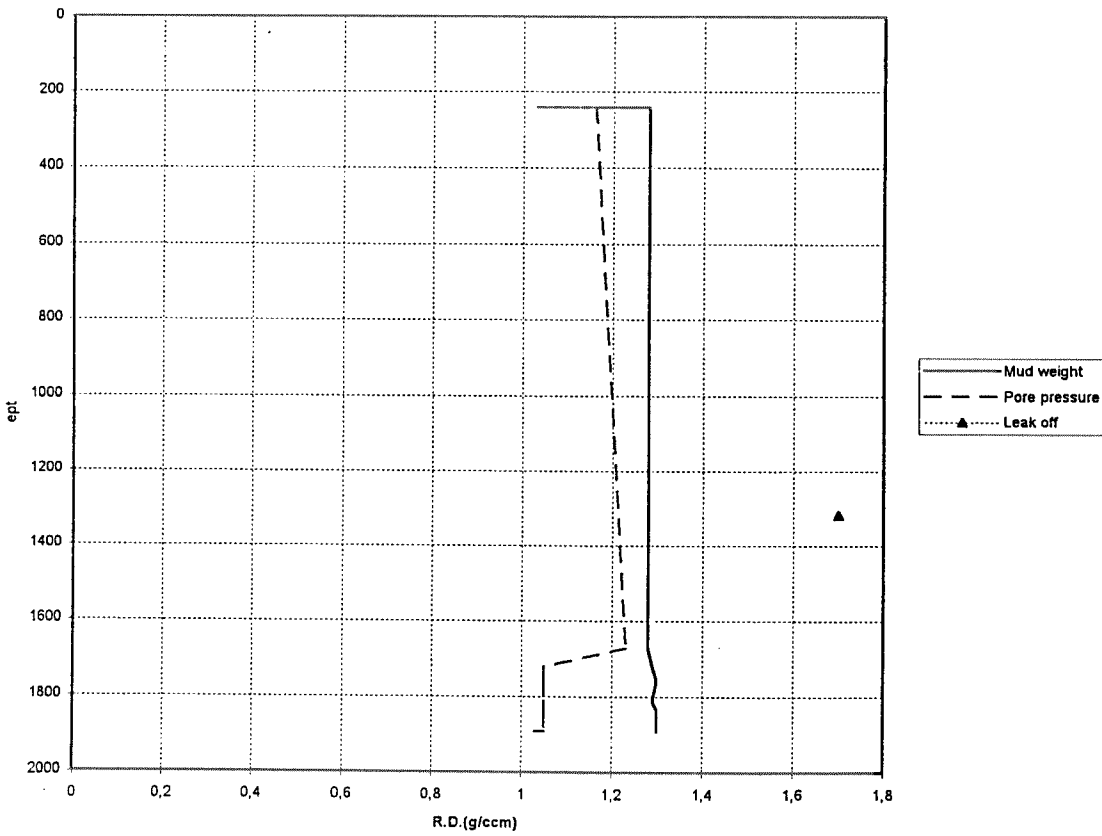
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RFT HP GR	1299.0 - 1847.0			
SITE SURVEY				
SYNTHETIC SEISMOGRAM				
TWO WAY TRAVEL TIME				
VSP				

Depth v.s. time plot for well: 25/8-4



Composite plot for well: 25/8-4



## Main operations for well: 25/8-4

### Main operation: DRILLING

Sub operation:	Minutes:	Hours:	% of total:
BOP ACTIVITIES	450	7,5	4,31
BOP/WELLHEAD EQ	1260	21,0	12,07
CASING	1980	33,0	18,97
CIRC/COND	240	4,0	2,30
DRILL	4650	77,5	44,54
TRIP	1680	28,0	16,09
WAIT	180	3,0	1,72
<b>Total</b>	<b>10440</b>	<b>174,0</b>	<b>100,00</b>

### Main operation: FORMATION EVAL

Sub operation:	Minutes:	Hours:	% of total:
CIRC SAMPLES	60	1,0	0,53
CIRC/COND	600	10,0	5,33
CORE	3060	51,0	27,20
LOG	2490	41,5	22,13
RFT/FIT	630	10,5	5,60
TRIP	4410	73,5	39,20
<b>Total</b>	<b>11250</b>	<b>187,5</b>	<b>100,00</b>

### Main operation: INTERRUPTION

Sub operation:	Minutes:	Hours:	% of total:
MAINTAIN/REP	360	6,0	100,00
<b>Total</b>	<b>360</b>	<b>6,0</b>	<b>100,00</b>

### Main operation: MOVING

Sub operation:	Minutes:	Hours:	% of total:
ANCHOR	2130	35,5	66,98
TRANSIT	1050	17,5	33,02
<b>Total</b>	<b>3180</b>	<b>53,0</b>	<b>100,00</b>

### Main operation: PLUG & ABANDON

Sub operation:	Minutes:	Hours:	% of total:
CEMENT PLUG	450	7,5	21,74
CIRC/COND	60	1,0	2,90
CUT	300	5,0	14,49
EQUIP RECOVERY	150	2,5	7,25
MECHANICAL PLUG	150	2,5	7,25
TRIP	960	16,0	46,38
<b>Total</b>	<b>2070</b>	<b>34,5</b>	<b>100,00</b>

Total time used:  Hours

# WELL HISTORY 25/8-4

## GENERAL:

The main objective of the well 25/8-4 was to test the hydrocarbon potential of the Paleocene Heimdal Formation, which had been identified as a seismic mounded structure within the prospect area. The location of the well was chosen in an area where thick sands were expected to be found in a high structural position.

Additional objectives were to confirm the Heimdal sand development model in the northern area of the established Tertiary trend, and to investigate the possibility of additional younger sand development in the Lista and Sele Formation.

## OPERATION:

The well 25/11-16 was spudded the 25 July 1992 by the semi submersible rig "Vildkat Explorer" and completed 11 August 1992 in the Late Cretaceous Shetland Group.

The Heimdal Formation was encountered from 1780m and had a gross thickness of 50m. Twelve cores were cut throughout the Rogaland Group between 1659.6m to 1840m.

A sequence of thin sandstones was recognised in the Lista Formation. From a gross thickness of 50m, total net sand of 5.9m was defined, which was all hydrocarbon bearing. Average porosity was 32.0% with an average Sw of 10%.

The Heimdal Formation was found mainly water wet, with a total net pay of only 1.0m defined at the top of the sequence. Average porosity in Heimdal Formation was 33.9% with an average Sw of 97%.

The well was permanently plugged and abandoned, without production testing, as an oil discovery.

## TESTING:

No DST tests were performed in this well.

# Geological Tops.

## Well: 25/8-4.

Depth m (RKB).

Nordland Group	155.0
Utsira Fm	813.0
Hordaland Group	885.0
Grid Fm	1384.5
Rogaland Group	1670.0
Balder Fm	1670.0
Lista Fm	1710.0
Heimdal Fm	1780.0
Våle Fm	1830.0
Shetland Group	1841.0
Ekofisk Fm	1841.0
Tor Fm	1846.0
Hod Fm	1885.0
T.D.	1891.0