

## WDSS Report

Date: 26/09/96

PB/SKR

Page: 1 / 4

<b>Well no:</b>	<b>Operator:</b>
<b>34/08-06</b>	<b>HYDRO</b>

### Well

<p><b>Coordinates :</b> 61° 26' 31.36" N 02° 28' 33.35" E</p> <p><b>License no :</b> 120</p> <p><b>Rig :</b> TRANSOCEAN 8</p> <p><b>Contractor :</b> TRANSOCEAN AS</p> <p><b>Bottom hole temp:</b> 122 °C</p> <p><b>Spud. date :</b> 91.09.21</p> <p><b>Compl. date :</b> 91.11.03</p> <p><b>Spud. class :</b> WILDCAT</p> <p><b>Compl. class :</b> P&amp;A. DRY HOLE</p> <p><b>Seisloca :</b> NH9001 - 597 A SP. 291</p>	<p><b>UTM coord. :</b> 6812300.64 N 472048.81 E</p> <p><b>Permit no :</b> 699</p> <p><b>Rig type :</b> SEMI-SUB.</p> <p><b>Elev. KB :</b> 23.5 M</p> <p><b>Water depth :</b> 377 M</p> <p><b>Total depth :</b> 3950 M</p> <p><b>Form. at TD :</b> JURASSIC</p> <p><b>Prod.form. :</b></p>
---	---

### Licenseses

13.000000 ELF PETROLEUM NORGE AS  
 18.000000 NORSK HYDRO PRODUKSJON AS  
 6.000000 SAGA PETROLEUM A.S.  
 50.000000 DEN NORSKE STATS OLJESELSKAP A.S  
 13.000000 NORSK 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	485.0	36	486.5	
INTERM.	18 5/8	1219.0	24	1235.0	
INTERM.	13 3/8	2407.0	17 1/2	2423.0	1.62
OPEN HOLE		3950.0	12 1/4	3950.0	

<b>Well no:</b>	<b>Operator:</b>
<b>34/08-06</b>	<b>HYDRO</b>

### Conventional Cores

Core no.	Intervals cored meters	Recovery m	%
1	3572.0 - 3584.6	12,6	100.0

### Mud

Depth	Mud weight	Visc.	Mud type
415.0	1.46	18.0	WATER BASED
415.0	1.36	14.0	WATER BASED
416.0	1.05	22.0	WATER BASED
487.0	1.20	16.0	WATER BASED
1674.0	1.20	12.0	WATER BASED
2231.0	1.30	14.0	WATER BASED
2423.0	1.35	16.0	WATER BASED
2439.0	1.35	14.0	WATER BASED
2527.0	1.41	16.0	WATER BASED
3166.0	1.40	17.0	WATER BASED
3365.0	1.45	19.0	WATER BASED
3372.0	1.50	20.0	WATER BASED
3372.0	1.49	17.0	WATER BASED
3422.0	1.51	19.0	WATER BASED
3606.0	1.60	24.0	WATER BASED
3795.0	1.61	25.0	WATER BASED
3950.0	1.60	23.0	WATER BASED
3950.0	1.50	17.0	WATER BASED

### Drill Stem Test (intervals and pressures)

Test no.	Test interval meter	Choke size	Pressure (psi) WHP	BTHP	FFP
----------	---------------------	------------	--------------------	------	-----

### Drill Stem Test (recovery)

Test no.	Oil Sm3/d	Gas Sm3/d	Oil grav. g/cm3	Gas grav. rel. air	GOR m3/m3
----------	-----------	-----------	-----------------	--------------------	-----------

## WDSS Report

Date: 26/09/96

PB/SKR

Page: 3 / 4

<b>Well no:</b>	<b>Operator:</b>
<b>34/08-06</b>	<b>HYDRO</b>

### Drill Bit Cuttings and Wet Samples

Sample type	Interval below KB	Number of samples
WET SAMPLES	1240 - 3950	390
CUTTINGS	1240 - 3855	390

### Shallow Gas

Interval below KB	Remarks

### Available Logs

Log type	Intervals logged	1/200	1/500	
AMS	485.0 - 3919.0			
CDM AP/SHDT MSD	3100.0 - 3938.0			
CST	2450.0 - 3930.0			
DIL LSS SP GR	485.0 - 3848.0			
DRLG.DATA PRESSURE	400.0 - 3950.0			
FMS 4 SGR	3103.0 - 3949.0			
LDL CNL GR	2402.0 - 3930.0			
MUD	400.0 - 3050.0			
MWD	400.0 - 3950.0			
NGS	3103.0 - 3940.0			
RFT HP	3686.0 - 3825.0			

# WDSS Report

Date: 26/09/96

PB/SKR

Page: 4 / 4

<b>Well no:</b>	<b>Operator:</b>
<b>34/08-06</b>	<b>HYDRO</b>

SYNTHETIC SEISMOGRAM				
TWO-WAY TRAVEL TIME	550.0 - 3950.0			
VSP				

## Main operations for well: 34/8-6

### Main operation: DRILLING

Sub operation:	Minutes:	Hours:	% of total:
BOP ACTIVITIES	480	8,0	1,25
BOP/WELLHEAD EQ	2370	39,5	6,19
CASING	4230	70,5	11,04
CIRC/COND	1170	19,5	3,05
DRILL	19980	333,0	52,15
HOLE OPEN	1110	18,5	2,90
OTHER	600	10,0	1,57
PRESS DETECTION	90	1,5	0,23
REAM	180	3,0	0,47
TRIP	8100	135,0	21,14
<b>Total</b>	<b>38310</b>	<b>638,5</b>	<b>100,00</b>

### Main operation: FORMATION EVAL

Sub operation:	Minutes:	Hours:	% of total:
CIRC SAMPLES	450	7,5	6,00
CIRC/COND	150	2,5	2,00
CORE	510	8,5	6,80
LOG	4920	82,0	65,60
OTHER	210	3,5	2,80
TRIP	1260	21,0	16,80
<b>Total</b>	<b>7500</b>	<b>125,0</b>	<b>100,00</b>

### Main operation: INTERRUPTION

Sub operation:	Minutes:	Hours:	% of total:
FISH	300	5,0	2,14
MAINTAIN/REP	6510	108,5	46,47
OTHER	270	4,5	1,93
WAIT	6930	115,5	49,46
<b>Total</b>	<b>14010</b>	<b>233,5</b>	<b>100,00</b>

### Main operation: MOVING

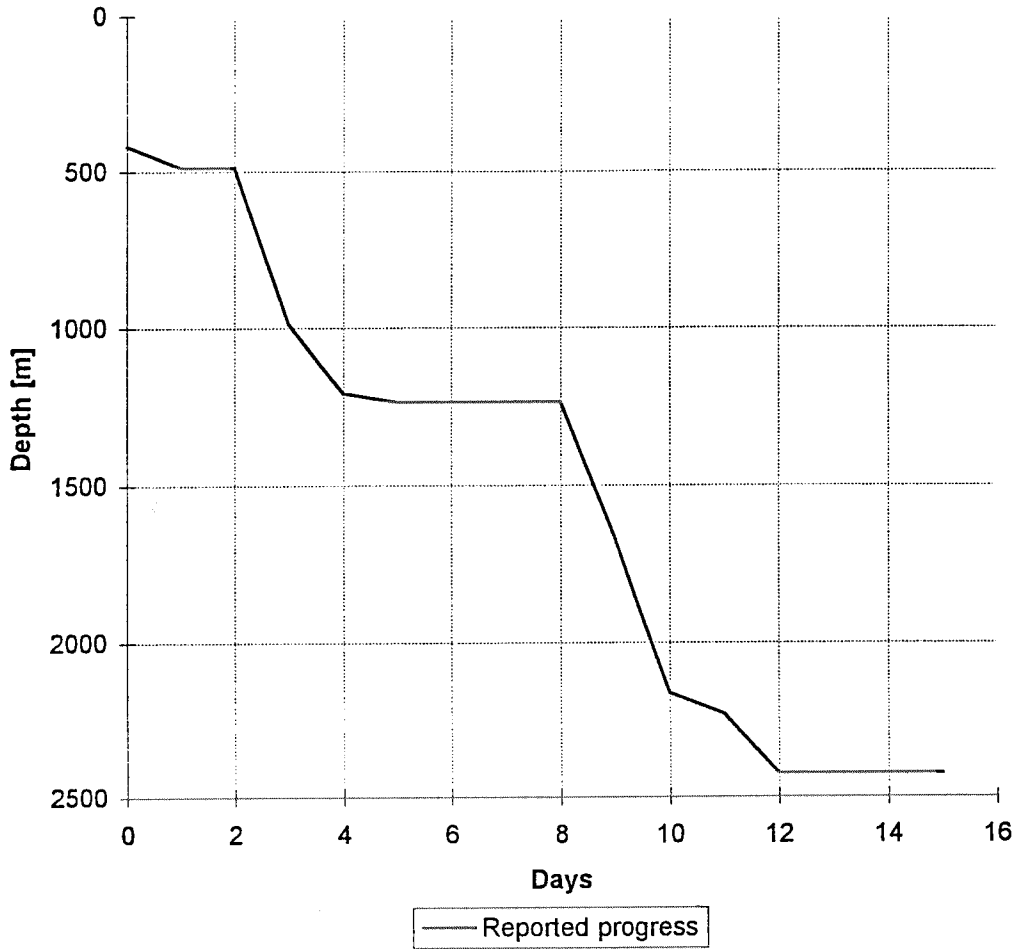
Sub operation:	Minutes:	Hours:	% of total:
ANCHOR	2130	35,5	59,66
TRANSIT	1440	24,0	40,34
<b>Total</b>	<b>3570</b>	<b>59,5</b>	<b>100,00</b>

### Main operation: PLUG & ABANDON

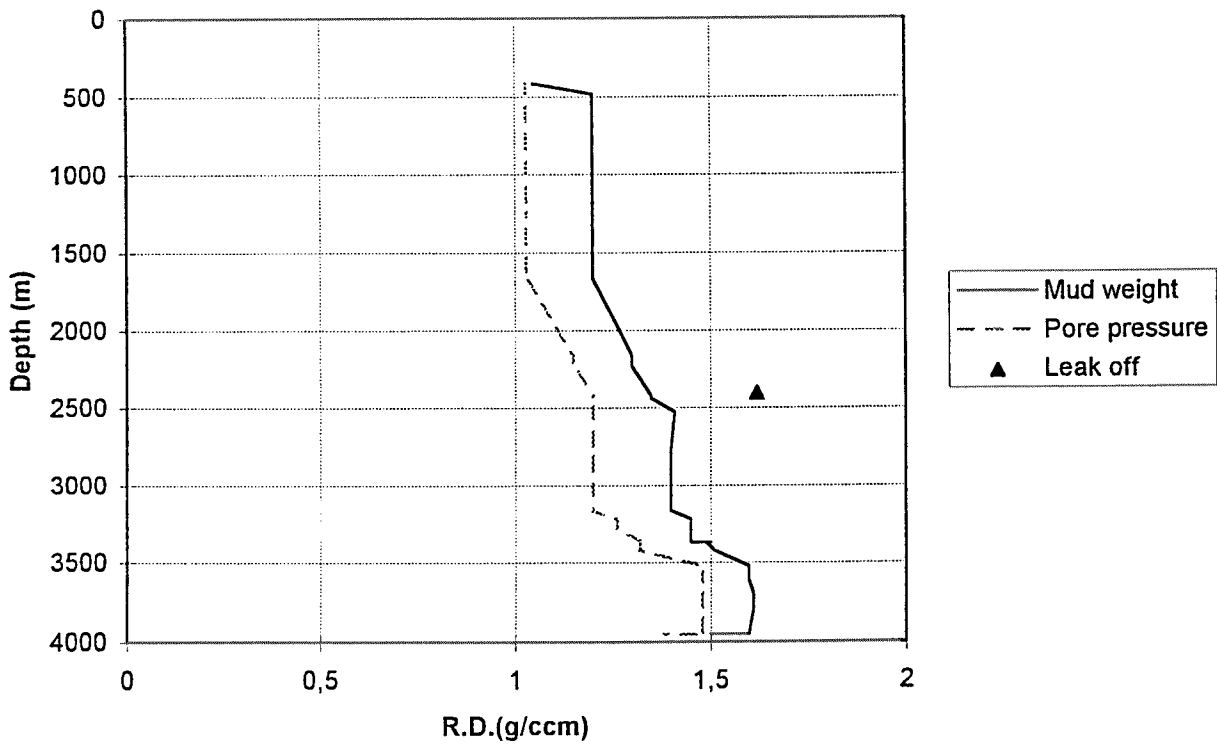
Sub operation:	Minutes:	Hours:	% of total:
CEMENT PLUG	750	12,5	13,09
CIRC/COND	390	6,5	6,81
CUT	450	7,5	7,85
EQUIP RECOVERY	1170	19,5	20,42
MECHANICAL PLUG	510	8,5	8,90
OTHER	150	2,5	2,62
PERFORATE	510	8,5	8,90
SQUEEZE	60	1,0	1,05
TRIP	1740	29,0	30,37
<b>Total</b>	<b>5730</b>	<b>95,5</b>	<b>100,00</b>

Total time used:  Hours

Depth vs time for well: 34/8-6



Composite plot for well: 34/8-6



# Well History 34/8-6.

## General:

Well 34/8-6 was designed to drill north of the Visund Field on a northerly trending arm of the Tampen Spur. The main structural feature in block 34/8, the A-structure, is a NNE-SSW oriented elongated rotated fault block with pre-cretaceous strata dipping towards the WNW. The block contains the Visund Field, and is divided into two compartment, the A-south and the A-north, by a central fault. The well was to test a stratigraphic trap on the north-west flank of the A-structure, far down dip from the Visund structural crest. Possible shallow gas might be encountered at 510, 544, 556, and 877 m RKB due to seismic anomalies. Levels at 544 and 556 m RKB are dipping sand layers, and might contain gas with overpressure. Scattered boulders could be expected between 424 and 540 m RKB.

The primary objective of well 34/8-6 was to test the presence of a hydrocarbon-bearing sand within the Late Jurassic Draupne Formation, and it was drilled close to the thickest portion of the interpreted turbidite sand.

Secondary objectives were to:

- 1 drill through the Brent Group to yield more information about development and thickness control down dip of the structural crest.
- 2 tag top of the Dunlin Group to permit a good seismic tie-in which can be carried updip towards the Visund reservoir.

## Operations:

Wildcat well 34/8-6 was spudded by the semi-submersible rig Transocean 8 21 September 1991 and completed 3 November 1991 at a depth of 3950 m RKB in rocks of Jurassic age, the Drake Formation. The drilling proceeded without any significant problems. There were no sandstones developed at the primary objective in the Draupne Formation. One core was cut in the Draupne Formation of the Viking Group. Two runs of sidewall cores were attempted whereof 19 were recovered. Shallow gas indications were encountered during drilling of the 8 1/2" pilot hole at 541 and 550 m RKB, but caused no problems, and no gas was observed at the well head during drilling operations. The gas indications did not correspond with any of the predicted sand layers. The well was permanently plugged and abandoned as a dry hole with hydrocarbon shows.

## Testing:

No DST tests were performed

# Geological Tops.

## Well: 34/8-6

	Depth m (RKB).
Nordland Group	423.5
Utsira Fm	1159.0
Hordaland Group	1178.0
Rogaland Group	1891.0
Balder Fm	1891.0
Sele Fm	1916.0
Lista Fm	1925.0
Våle Fm	2126.5
Shetland Group	2145.0
Jorsalfare Fm	2145.0
Kyrre Fm	2360.0
Undefined	3110.0
Cromer Knoll Group	3418.0
Sola Fm	3418.0
Åsgard Fm	3440.0
Viking Group	3477.0
Draupne Fm	3477.0
Heather Fm	3581.0
Brent Group	3686.0
Tarbert FM	3686.0
Ness Fm	3705.5
Etive FM	3724.0
Rannoch FM	3757.0
Dunlin Group	3880.0
Drake.Fm	3880.0
T.D.	3950.0