

# WDSS Report

Date: 30/09/96

PB/SKR

Page: 1 / 4

<b>Well no:</b>	<b>Operator:</b>
<b>6305/12-01</b>	<b>HYDRO</b>

## Well

Coordinates :	63° 01' 25.73" N 05° 47' 23.94" E	UTM coord. :	6991476.94 N 641178.97 E
License no :	154	Permit no :	693
Rig :	TRANSOCEAN 8	Rig type :	SEMI-SUB.
Contractor :	TRANSOCEAN AS		
Bottom hole temp:	113 °C	Elev. KB :	24 M
Spud. date :	91.07.29	Water depth :	176 M
Compl. date :	91.09.21	Total depth :	4301 M
Spud. class :	WILDCAT	Form. at TD :	
Compl. class :	P&A. DRY HOLE	Prod.form. :	
Seisloca :	NM 1 - 418, SP. 1130		

## Licenseses

10.000000 ELF PETROLEUM NORGE AS  
30.000000 NORSK HYDRO PRODUKSJON AS  
50.000000 DEN NORSKE STATS OLJESELSKAP A.S  
10.000000 AMOCO 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	297.0	36	325.0	
INTERM.	18 5/8	700.0	24	721.0	1.78
INTERM.	13 3/8	2000.0	17 1/2	2017.0	1.71
INTERM.	9 5/8	3510.0	12 1/4	3520.0	2.12
OPEN HOLE			8 1/2	4302.0	

<b>Well no:</b>	<b>Operator:</b>
<b>6305/12-01</b>	<b>HYDRO</b>

### Conventional Cores

Core no.	Intervals cored meters	Recovery m	%
1	3692.0 - 3692.3	10.3	100.0
2	4168.0 - 4178.0	10.0	100.0
0	4300.0 - 4301.2	1.2	100.0

### Mud

Depth	Mud weight	Visc.	Mud type
228.0	1.35	17.0	WATER BASED
292.0	1.04	23.0	WATER BASED
325.0	1.04	20.0	WATER BASED
413.0	1.05	18.0	WATER BASED
600.0	1.36	17.0	WATER BASED
721.0	1.20	17.0	WATER BASED
1005.0	1.20	15.0	WATER BASED
1473.0	1.21	20.0	WATER BASED
1830.0	1.21	16.0	WATER BASED
1983.0	1.22	18.0	WATER BASED
2017.0	1.22	18.0	WATER BASED
2178.0	1.22	18.0	WATER BASED
2768.0	1.22	18.0	WATER BASED
3108.0	1.23	19.0	WATER BASED
3280.0	1.37	18.0	WATER BASED
3345.0	1.25	19.0	WATER BASED
3515.0	1.26	18.0	WATER BASED
3520.0	1.26	18.0	WATER BASED
3673.0	1.30	17.0	WATER BASED
3701.0	1.30	18.0	WATER BASED
3783.0	1.30	17.0	WATER BASED
3905.0	1.30	17.0	WATER BASED
3955.0	1.30	17.0	WATER BASED
4037.0	1.30	17.0	WATER BASED
4112.0	1.30	16.0	WATER BASED
4142.0	1.30	17.0	WATER BASED
4169.0	1.36	18.0	WATER BASED
4178.0	1.36	17.0	WATER BASED
4243.0	1.36	19.0	WATER BASED
4300.0	1.36	19.0	WATER BASED
4302.0	1.37	18.0	WATER BASED

**WDSS Report**

Date: 30/09/96

PB/SKR

Page: 3 / 4

<b>Well no:</b>	<b>Operator:</b>
<b>6305/12-01</b>	<b>HYDRO</b>

**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 Sm <sup>3</sup> /d	Gas Sm <sup>3</sup> /d	Oil grav. g/cm <sup>3</sup>	Gas grav. rel. air	GOR m <sup>3</sup> /m <sup>3</sup>
----------	------------------------	------------------------	-----------------------------	--------------------	------------------------------------

**Drill Bit Cuttings and Wet Samples**

Sample type	Interval below KB	Number of samples
WET SAMPLES	730 - 4300	480
CUTTINGS	710 - 4257	360

**Shallow Gas**

Interval below KB	Remarks

**Available Logs**

Log type	Intervals logged	1/200	1/500
AMS	699.0 - 1940.0		
AMS	3512.0 - 4301.0		
CDM AP-CYBERDIP	3512.0 - 4304.0		
CDM AP/SHDT MSD	2000.0 - 3519.0		
CDM AP/SHDT MSD	3514.0 - 4304.0		
CST	723.0 - 4280.0		

WDSS Report

Date: 30/09/96

PB/SKR

Page: 4 / 4

Well no:	Operator:
<b>6305/12-01</b>	<b>HYDRO</b>

DIL BHC MSFL SP GR	1998.0 - 3521.0			
DIL LSS SP	699.0 - 1964.0			
DIL LSS SP GR	298.0 - 3521.0			
DIL LSS SP SGR	3512.0 - 4301.0			
DIL-LSS-GR-SP	699.0 - 3512.0			
DRLG.DATA PRESSURE	200.0 - 4302.0			
FMS-4 AMS GR	1998.0 - 4304.0			
LDL CNL GR	699.0 - 4284.0			
LDL CNL SGR	3512.0 - 4284.0			
LDL GR	699.0 - 1948.0			
LDL-CNL-GR	699.0 - 4284.0			
MUDLOG	200.0 - 4302.0			
MWD	200.0 - 4300.0			
NGS	3512.0 - 4275.0			
SYNTHETIC SEISMOGRAM				
TWO-WAY TRAVEL TIME	200.0 - 4200.0			
VELOCITY LOG	340.0 - 4310.0			
VELOCITY.CALI.SONIC	340.0 - 4310.0			
WIRELINE DATA SUMM.	300.0 - 4300.0			
VSP				

## Main operations for well: 6305/12-1

### Main operation: DRILLING

Sub operation:	Minutes:	Hours:	% of total:
BOP ACTIVITIES	660	11,0	1,52
BOP/WELLHEAD EQ	1920	32,0	4,42
CASING	4380	73,0	10,08
CIRC/COND	2250	37,5	5,18
DRILL	22050	367,5	50,72
HOLE OPEN	1440	24,0	3,31
OTHER	60	1,0	0,14
PRESS DETECTION	360	6,0	0,83
REAM	990	16,5	2,28
TRIP	9060	151,0	20,84
WAIT	300	5,0	0,69
<b>Total</b>	<b>43470</b>	<b>724,5</b>	<b>100,00</b>

### Main operation: FORMATION EVAL

Sub operation:	Minutes:	Hours:	% of total:
CIRC SAMPLES	300	5,0	2,58
CIRC/COND	210	3,5	1,80
CORE	1350	22,5	11,60
LOG	5850	97,5	50,26
OTHER	300	5,0	2,58
RFT/FIT	810	13,5	6,96
TRIP	2820	47,0	24,23
<b>Total</b>	<b>11640</b>	<b>194,0</b>	<b>100,00</b>

### Main operation: INTERRUPTION

Sub operation:	Minutes:	Hours:	% of total:
FISH	3510	58,5	44,32
MAINTAIN/REP	3210	53,5	40,53
OTHER	570	9,5	7,20
WAIT	630	10,5	7,95
<b>Total</b>	<b>7920</b>	<b>132,0</b>	<b>100,00</b>

### Main operation: MOVING

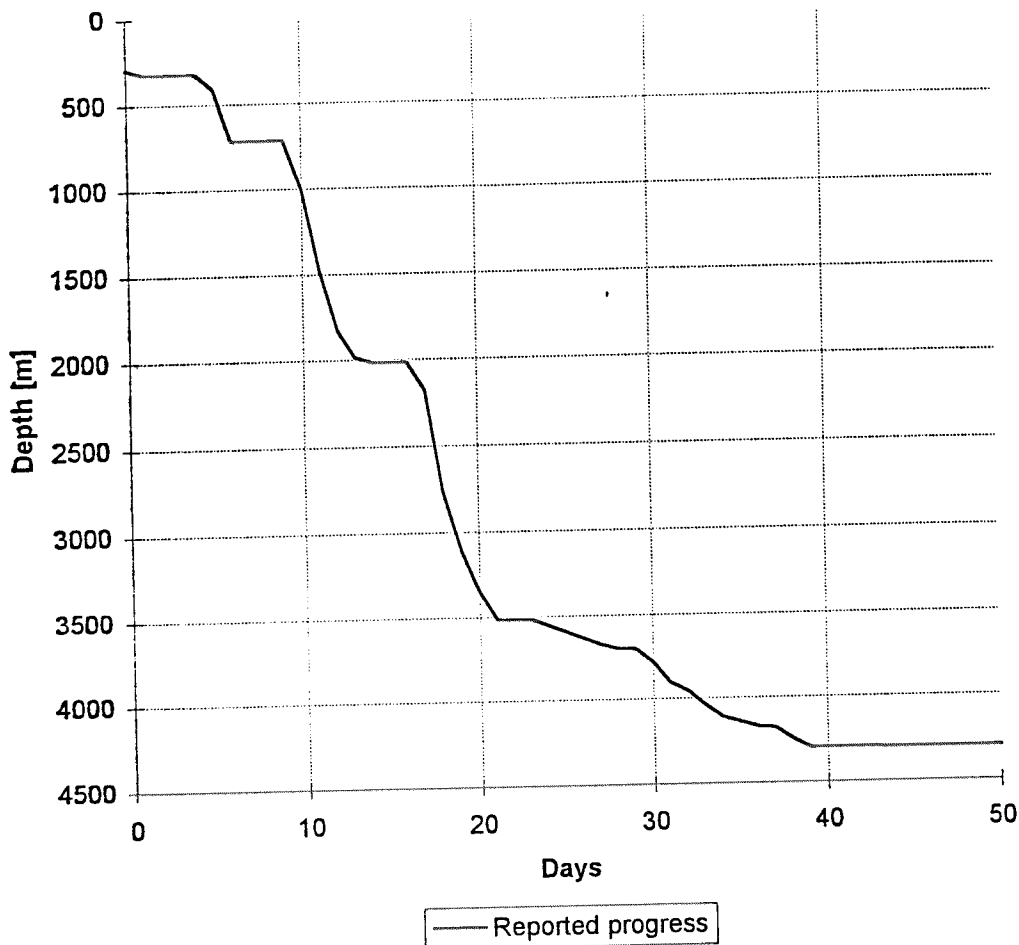
Sub operation:	Minutes:	Hours:	% of total:
ANCHOR	1110	18,5	24,03
JACK	150	2,5	3,25
TRANSIT	3360	56,0	72,73
<b>Total</b>	<b>4620</b>	<b>77,0</b>	<b>100,00</b>

### Main operation: PLUG & ABANDON

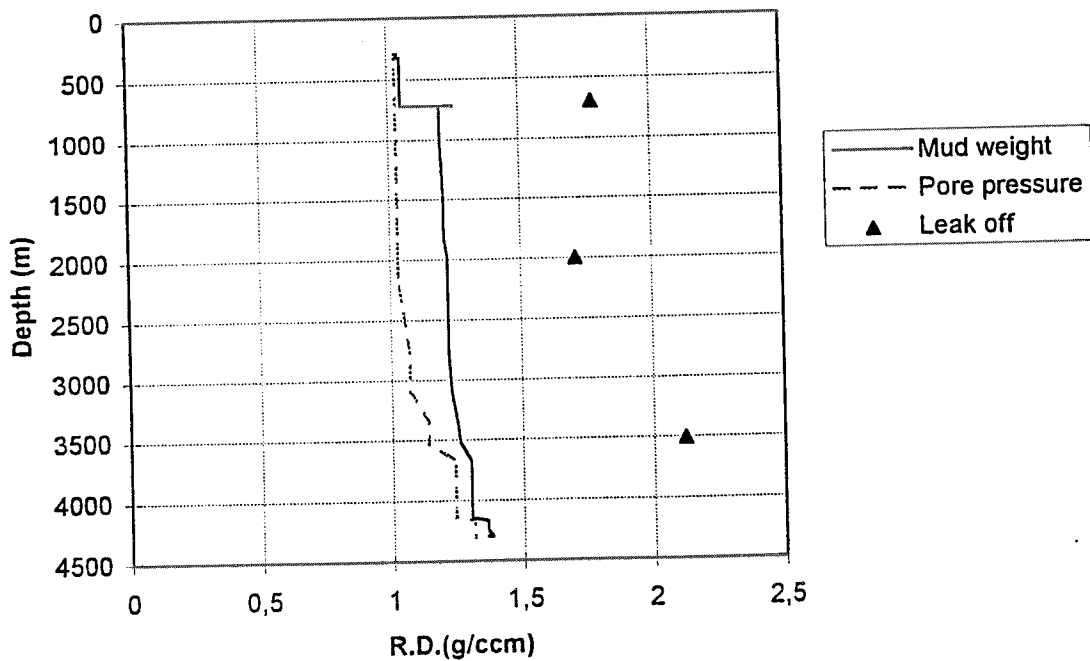
Sub operation:	Minutes:	Hours:	% of total:
CEMENT PLUG	840	14,0	14,51
CIRC/COND	210	3,5	3,63
CUT	570	9,5	9,84
EQUIP RECOVERY	1650	27,5	28,50
MECHANICAL PLUG	180	3,0	3,11
PERFORATE	660	11,0	11,40
SQUEEZE	90	1,5	1,55
TRIP	1590	26,5	27,46
<b>Total</b>	<b>5790</b>	<b>96,5</b>	<b>100,00</b>

Total time used: 1224,0 Hours

Depth vs time for well: 6305/12-1



Composite plot for well: 6305/12-1



# Well History 6305/12-01

## General:

Well 6305/12-01 is located in the south-western part of block 6305/12 in the Storebotn Sub-basin, approximately 12 km west of the island of Vigra. The C-prospect is an easterly tilted fault block bounded to the west by the Gossa High. Tilted strata are dipping to the southeast and plunge in both strike directions to give closure. The reservoir sequences are truncated at the crest of the fault block. The primary objectives of the well are:

- 1) to prove hydrocarbons in Lower to Middle Jurassic sandstones (primary target).
- 2) to explore Lower Triassic sandstones (secondary target)
- 3) to leave only non-commercial resources updip.
- 4) to verify the structural and sedimentological interpretation of the area.

The well was planned to be drilled to a total depth of 4300 m RKB in rocks of presumed Upper Triassic age. If the encountered stratigraphy below the base Cretaceous was younger than expected, deeper drilling for stratigraphic information would be considered. No significant indications of shallow gas were interpreted from the site survey.

## Operations:

Wildcat well 6305/12-01 was spudded 29 July 1991 by the semi-submersible rig Transocean 8 and completed 18 September 1991 at a total depth of 4302 m RKB within Triassic Hegre Group Equivalent Conglomerates. A total of 3 conventional cores were cut in the intervals 3692-3701 m RKB and 4268.5-4173.5 m RKB. A total of 240 sidewall cores were attempted, and 160 were recovered. Thinly developed, hydrocarbon bearing sandstones were encountered in the Upper Cretaceous Svarte Formation, and Lower Cretaceous sands. The Middle Jurassic Unit exhibited interbedded thin sandstones, coals and claystones. A trace of oil was observed to be seeping from fractures in a thin coal band. No reservoir potential was encountered below the Cretaceous. Minor problems occurred while drilling, as the rig was moved and respudded the 29 July 1991 due to boulders encountered 16 m below sea bed. While drilling the 17 1/2" pilot hole the MWD failed due to high shock rates created from rough drilling conditions. The MWD /GR failed once again while drilling the 8 1/2" section, and a reverse circulating junk basket was run to recover a fish after running in the hole with the VSP tool. The well was permanently plugged and abandoned as a dry well.

## Testing:

No DST tests were performed

# Geological Tops.

## Well: 6305/12-1.

	Depth m (RKB).
Nordland Group	200.0
Hordaland Group	315.0
Rogaland Group	1060.0
Balder Fm	1060.0
Balder Tuff	1075.0
Lista Fm	1122.0
Våle Fm	1732.0
Sand Unit	1804.0
Shetland Group	1973.0
Kyrre Fm	1973.0
Tryggvason Fm	2742.0
Blodoks Fm	3140.0
Svarte Fm	3158.0
Cromer Knoll Group	3546.9
M. Jurassic Unit	3685.0
Hegre Group	4063.0
T.D.	4302.0