

## WDSS Report

Date: 17/04/98

PB/ABS

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<b>Well no:</b>	<b>Operator:</b>
<b>2/01-10</b>	<b>BP</b>

### Well

Coordinates :	56° 57' 53.61" N 03° 01' 19.70" E	UTM coord. :	6313619.42 N 501346.22 E
License no :	164	Permit no :	703
Rig :	ROSS ISLE	Rig type :	SEMI-SUB.
Contractor :	ROSS OFFSHORE A/S		
Bottom hole temp:	163 °C	Elev. KB :	23 M
Spud. date :	91.11.09	Water depth :	66 M
Compl. date :	92.01.14	Total depth :	4525 M
Spud. class :	WILDCAT	Form. at TD :	TRIASSIC
Compl. class :	P&A. DRY HOLE	Prod.form. :	
Seisloca :	GYDA 3D IN LINE 122 X- LINE 1006		

### Licensees

10.000000 NORSKE CONOCO A/S  
50.000000 DEN NORSKE STATS OLJESELSKAP A.S  
10.000000 SVENSKA PETROLEUM EXPLORATION AS  
30.000000 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+20	160.0	36	161.0	
INTERM.	13 3/8	1096.0	17 1/2	1100.0	1.99
INTERM.	9 5/8	3234.0	12 1/4	3236.0	1.94
LINER	7	4526.0	8 1/2	4526.0	

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### Conventional Cores

Core no.	Intervals cored meters	Recovery m	%
1	4193.0 - 4221.0	28.0	100.0
2	4221.0 - 4244.0	23.0	100.0
3	4244.0 - 4272.0	28.0	100.0
4	4272.0 - 4277.0	5.0	100.0
5	4277.0 - 4287.0	10.0	100.0

### Mud

Depth	Mud weight	Visc.	Mud type
687.0	1.60	28.0	WATER BASED
817.0	1.59	30.0	WATER BASED
1100.0	1.07	54.0	WATER BASED
1101.0	1.40	32.0	WATER BASED
1250.0	1.45	29.0	WATER BASED
1636.0	1.57	32.0	WATER BASED
1763.0	1.60	35.0	OIL BASED
2023.0	1.60	41.0	WATER BASED
2172.0	1.60	41.0	WATER BASED
2290.0	1.60	45.0	WATER BASED
2502.0	1.60	43.0	WATER BASED
2710.0	1.60	44.0	WATER BASED
2864.0	1.60	41.0	WATER BASED
2906.0	1.60	44.0	WATER BASED
3002.0	1.60	43.0	WATER BASED
3060.0	1.60	49.0	WATER BASED
3119.0	1.60	40.0	WATER BASED
3128.0	1.57	47.0	WATER BASED
3162.0	1.60	49.0	WATER BASED
3242.0	1.60	47.0	WATER BASED
3313.0	1.30	35.0	WATER BASED
3366.0	1.55	42.0	WATER BASED
3420.0	1.55	38.0	WATER BASED
3572.0	1.55	43.0	WATER BASED
3695.0	1.55	40.0	WATER BASED
3721.0	1.55	40.0	WATER BASED
3772.0	1.55	43.0	WATER BASED
3817.0	1.55	40.0	WATER BASED
3900.0	1.55	37.0	WATER BASED
3954.0	1.55	46.0	WATER BASED
3992.0	1.55	43.0	WATER BASED

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4092.0	1.57	51.0	WATER BASED
4121.0	1.55	44.0	WATER BASED
4193.0	1.55	43.0	WATER BASED
4221.0	1.55	42.0	WATER BASED
4244.0	1.56	41.0	WATER BASED
4272.0	1.55	44.0	WATER BASED
4277.0	1.55	41.0	WATER BASED
4287.0	1.55	42.0	WATER BASED
4328.0	1.55	48.0	WATER BASED
4424.0	1.55	49.0	WATER BASED
4443.0	1.55	52.0	WATER BASED
4525.0	1.57	57.0	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
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**Shallow Gas**

Interval below KB	Remarks
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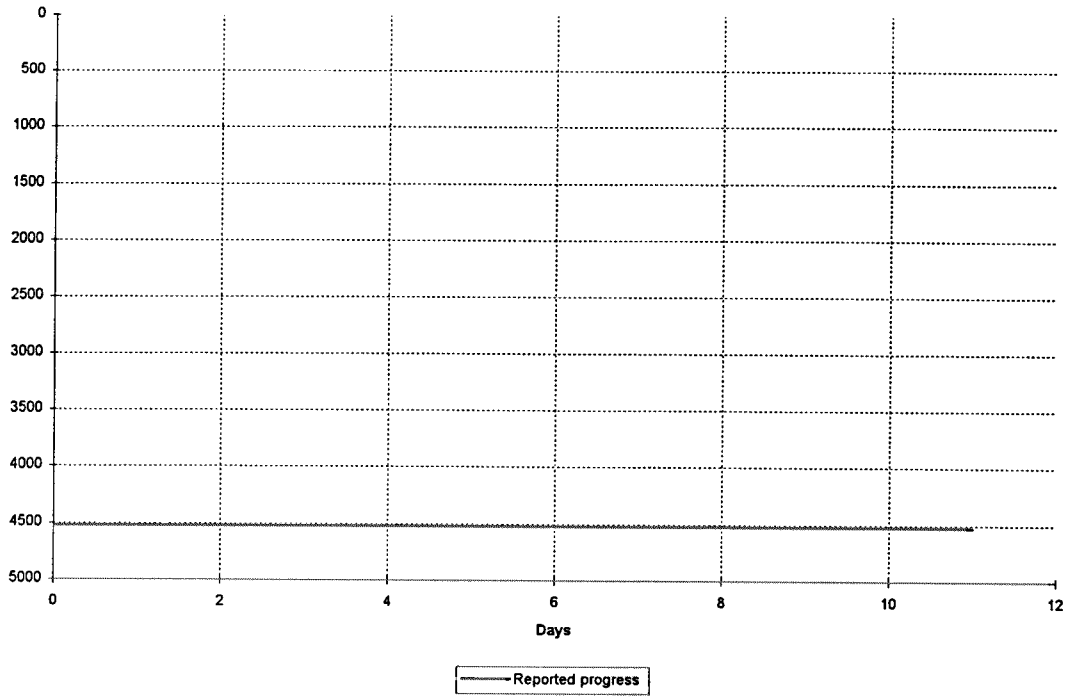
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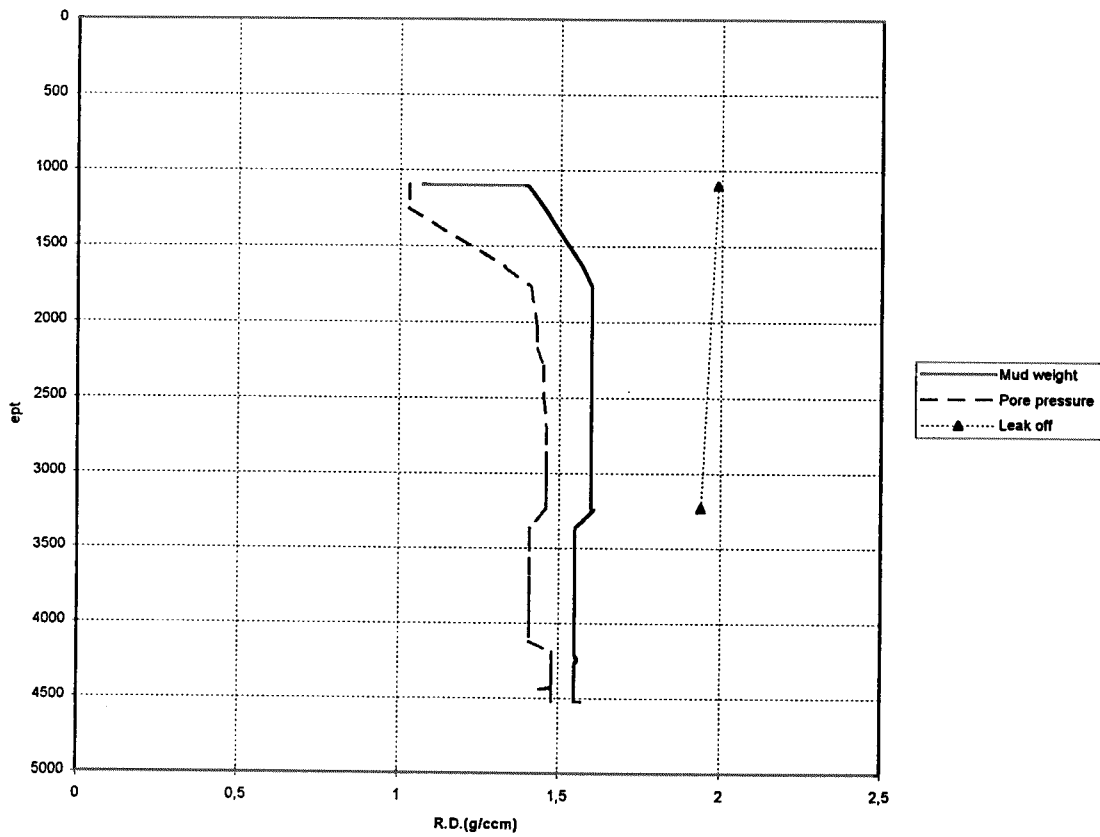
## Available Logs

Log type	Intervals logged	1/200	1/500	
ARRAY SONIC	3225.0 - 4525.0			
CDM AP/SHDT MSD	3800.0 - 4525.0			
CST GR	3935.0 - 4490.0			
DIL LSS SP DLL MSFL	1094.0 - 4524.0			
DIL LSS SP GR	1094.0 - 3238.0			
DLL MSFL AS SP GR	3233.0 - 4521.0			
DRILLING EVALUATION	89.0 - 4525.0			
LDL CNL GR	1094.0 - 4524.0			
MUDLOG	89.0 - 4525.0			
MWD	89.0 - 4525.0			
PRESSURE EVALUATION	89.0 - 4525.0			
RFT HP GR	4193.0 - 4463.0			
SHDT GR	3800.0 - 4525.0			
SYNTHETIC SEISMOGRAM				
WSC	1100.0 - 4500.0			

Depth v.s. time plot for well: 2/1-10



Composite plot for well: 2/1-10



## Main operations for well: 2/1-10

### Main operation: DRILLING

Sub operation:	Minutes:	Hours:	% of total:
BOP ACTIVITIES	60	1,0	0,10
BOP/WELLHEAD EQ	2505	41,8	4,03
CASING	3390	56,5	5,46
CIRC/COND	2940	49,0	4,73
DRILL	34800	580,0	56,03
HOLE OPEN	1740	29,0	2,80
OTHER	180	3,0	0,29
REAM	3035	50,6	4,89
TRIP	13455	224,3	21,66
<b>Total</b>	<b>62105</b>	<b>1035,1</b>	<b>100,00</b>

### Main operation: FORMATION EVAL

Sub operation:	Minutes:	Hours:	% of total:
CIRC SAMPLES	330	5,5	2,90
CIRC/COND	885	14,8	7,77
CORE	2115	35,3	18,58
LOG	5025	83,8	44,14
RFT/FIT	150	2,5	1,32
TRIP	2880	48,0	25,30
<b>Total</b>	<b>11385</b>	<b>189,8</b>	<b>100,00</b>

### Main operation: INTERRUPTION

Sub operation:	Minutes:	Hours:	% of total:
FISH	2640	44,0	22,31
MAINTAIN/REP	2205	36,8	18,63
OTHER	135	2,3	1,14
WAIT	6480	108,0	54,75
WELL CONTROL	375	6,3	3,17
<b>Total</b>	<b>11835</b>	<b>197,3</b>	<b>100,00</b>

### Main operation: MOVING

Sub operation:	Minutes:	Hours:	% of total:
ANCHOR	1425	23,8	88,79
TRANSIT	180	3,0	11,21
<b>Total</b>	<b>1605</b>	<b>26,8</b>	<b>100,00</b>

### Main operation: PLUG & ABANDON

Sub operation:	Minutes:	Hours:	% of total:
CEMENT PLUG	570	9,5	5,97
CIRC/COND	690	11,5	7,23
CUT	630	10,5	6,60
EQUIP RECOVERY	795	13,3	8,32
MECHANICAL PLUG	840	14,0	8,80
OTHER	180	3,0	1,88
PERFORATE	450	7,5	4,71
SQUEEZE	150	2,5	1,57
TRIP	5170	86,2	54,14
WAIT	75	1,3	0,79
<b>Total</b>	<b>9550</b>	<b>159,2</b>	<b>100,00</b>

Total time used:  Hours

# WELL HISTORY 2/1 -10

## **GENERAL:**

The well 2/1-10 well was drilled on a prospect located within PL 164, 7.8km Northwest of Gyda Platform. The primary objective was to test the Upper Jurassic Ula Formation, if successfully, to prove a volume of oil that was commercial as a tie back development to the Gyda Platform. A secondary target was Gyda Sandstone Member

## **OPERATION:**

The well was spudded on 9 November 1991 with the semi-submersible rig "Ross Isle", and it was completed 14 January 1992 in the Triassic Skagerrak Formation.

The Gyda Sandstone was encountered at 4189.5mBRT DD, 50 m deeper than originally predicted. A 133m thick Gyda Sandstone Member was encountered instead of the most likely prognosed model of 15 to 30m thick intra Farsund (Gyda) Sandstone, separated from underlying Ula Sandstone by a 50 to 60m. thick Farsund mud stone. The Gyda Sandstone Member was cored from 4194m to 4289.5m. BRT DD. Fair quality shows was observed in uppermost 5 meter of sandstone only. The well was plugged and abandoned as dry well.

## **TESTING:**

No DST test was performed in this well.

# Geological Tops.

## Well: 2/1-10

	Depth m (RKB).
Nordland Group	930.0
Hordaland Group	1712.0
Rogaland Group	2977.0
Balder Fm	2977.0
Sele Fm	3003.0
Lista Fm	3015.0
Vidar Fm	3111.0
Lista Fm	3143.0
Våle Fm	3168.0
Shetland Group	3221.0
Ekofisk Fm	3221.0
Tor Fm.	3323.0
Hod Fm	3607.0
BlodøksFm	3789.0
Hidra Fm	3822.0
Cromer Knoll Group	3852.0
Rødby Fm	3852.0
Sola Fm	3889.0
Tuxen Fm	3914.0
Åsgard Fm	3964.0
Tyne Group	4127.0
Mandal Fm	4127.0
Farsund Fm	4156.0
Haugesund Fm	4347.0
Triassic Group	4435.0
Skagerak.	4435.0
T.D.	4526.0