

WDSS Report

Date: 26/02/98

PB/SKR

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Well no:	Operator:
2/01-09 A	BP

Well

Coordinates :	56° 51' 37.77" N 03° 05' 04.77" E	UTM coord. :	6302000.77 N 505162.3 E
License no :	19	Permit no :	713
Rig :	ROSS ISLE	Rig type :	SEMI-SUB.
Contractor :	ROSS OFFSHORE A/S		
Bottom hole temp:	138 °C	Elev. KB :	23 M
Spud. date :	92.01.18	Water depth :	66 M
Compl. date :	92.03.08	Total depth :	4379 M
Spud. class :	APPRAISAL	Form. at TD :	JURASSIC
Compl. class :	SUSPENDED	Prod.form. :	
Seisloca :	GYDA 3D IN LINE 580 x- LINE 556		

Licensees

26.625000 BP PETROLEUM DEV. OF NORWAY AS
 9.375000 CONOCO NORWAY INC.
 5.000000 NORSKE MOECO A/S
 4.000000 AS PELICAN
 50.000000 DEN NORSKE STATS OLJESELSKAP A.S
 5.000000 NORSKE AEDC 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	164.0	36	165.0	
INTERM.	20	895.0	26	896.0	
INTERM.	13 3/8	2893.0	17 1/2	2895.0	
INTERM.	9 5/8	3938.0	12 1/4	3940.0	
LINER	7	4378.0	8 1/2	4385.0	

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Conventional Cores

Core no.	Intervals cored meters	Recovery m	%
1	4141.0 - 4178.0	37.0	100.0
2	4178.0 - 4224.0	46.0	100.0
3	4224.0 - 4251.0	27.0	100.0
4	4251.0 - 4278.0	27.0	100.0
5	4278.0 - 4306.0	28.0	100.0
6	4306.0 - 4318.0	12.0	100.0

Mud

Depth	Mud weight	Visc.	Mud type
140.0		39.0	OIL BASED
251.0		33.0	OIL BASED
3200.0	1.56	70.0	OIL BASED
3274.0	1.56	53.0	OIL BASED
3281.0	1.60	90.0	OIL BASED
3291.0	1.56	61.0	OIL BASED
3300.0	1.56	58.0	OIL BASED
3316.0	1.60	83.0	OIL BASED
3347.0	1.60	79.0	OIL BASED
3354.0	1.60	84.0	OIL BASED
3384.0	1.60	78.0	OIL BASED
3412.0	1.60	85.0	OIL BASED
3464.0	1.56	51.0	OIL BASED
3482.0	1.60	87.0	OIL BASED
3491.0	1.60	87.0	OIL BASED
3560.0	1.60	80.0	OIL BASED
3612.0	1.60	81.0	OIL BASED
3622.0	1.60	81.0	OIL BASED
3633.0	1.60	80.0	OIL BASED
3664.0	1.60	82.0	OIL BASED
3681.0	1.60	82.0	OIL BASED
3691.0	1.56	27.0	OIL BASED
3694.0	1.60	80.0	OIL BASED
3762.0	1.60	79.0	OIL BASED
3790.0	1.60	80.0	OIL BASED
3860.0	1.60	87.0	OIL BASED
3931.0	1.60	87.0	OIL BASED
3945.0	1.61	88.0	OIL BASED
4000.0	1.61	91.0	OIL BASED
4081.0	1.61	88.0	OIL BASED

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4140.0	1.60	92.0	OIL BASED
4177.0	1.60	90.0	OIL BASED
4223.0	1.62	90.0	OIL BASED
4278.0	1.63	88.0	OIL BASED
4318.0	1.60	88.0	OIL BASED
4352.0	1.60	100.0	OIL BASED
4379.0	1.60	96.0	OIL 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 Sm ³ /d	Gas Sm ³ /d	Oil grav. g/cm ³	Gas grav. rel. air	GOR m ³ /m ³
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Drill Bit Cuttings and Wet Samples

Sample type	Interval below KB	Number of samples
WET SAMPLES	3280 - 4379	150
CUTTINGS	3270 - 4377	180

Shallow Gas

Interval below KB	Remarks

Available Logs

Log type	Intervals logged	1/200	1/500	
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DIL BHC AMS GR	3303.0 - 4384.0			
DRILLING EVALUATION	4123.8 - 4379.0			
FORMATION EVALUATION	3270.0 - 4379.0			
LDL CNL AMS GR	4314.0 - 4384.0			
PRESSURE EVALUATION	4123.8 - 4379.0			
RFT RPQS GR	4135.0 - 4298.0			
WIRELINE PRESSURE	4123.8 - 4379.0			

Main operations for well: 2/1-9 A

Main operation: DRILLING

Sub operation:	Minutes:	Hours:	% of total:
BOP/WELLHEAD EQ	2880	48,0	5,15
CASING	3690	61,5	6,60
CIRC/COND	3165	52,8	5,66
DRILL	24660	411,0	44,10
OTHER	765	12,8	1,37
PRESS DETECTION	90	1,5	0,16
REAM	2790	46,5	4,99
SURVEY	1425	23,8	2,55
TRIP	16215	270,3	29,00
WAIT	240	4,0	0,43
Total	55920	932,0	100,00

Main operation: FORMATION EVAL

Sub operation:	Minutes:	Hours:	% of total:
CIRC/COND	1260	21,0	15,19
CORE	1815	30,3	21,88
LOG	1320	22,0	15,91
OTHER	60	1,0	0,72
TRIP	3840	64,0	46,29
Total	8295	138,3	100,00

Main operation: INTERRUPTION

Sub operation:	Minutes:	Hours:	% of total:
FISH	3075	51,3	52,56
MAINTAIN/REP	2415	40,3	41,28
OTHER	30	0,5	0,51
WAIT	330	5,5	5,64
Total	5850	97,5	100,00

Main operation: MOVING

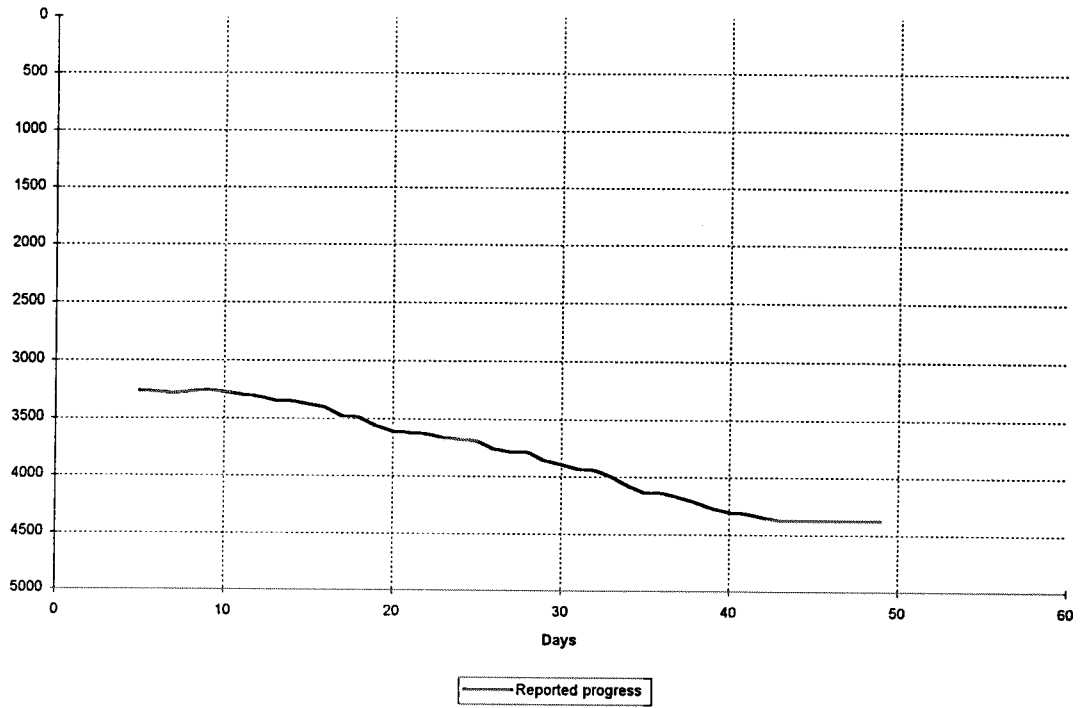
Sub operation:	Minutes:	Hours:	% of total:
ANCHOR	2010	33,5	55,83
POSITION	90	1,5	2,50
TRANSIT	1500	25,0	41,67
Total	3600	60,0	100,00

Main operation: PLUG & ABANDON

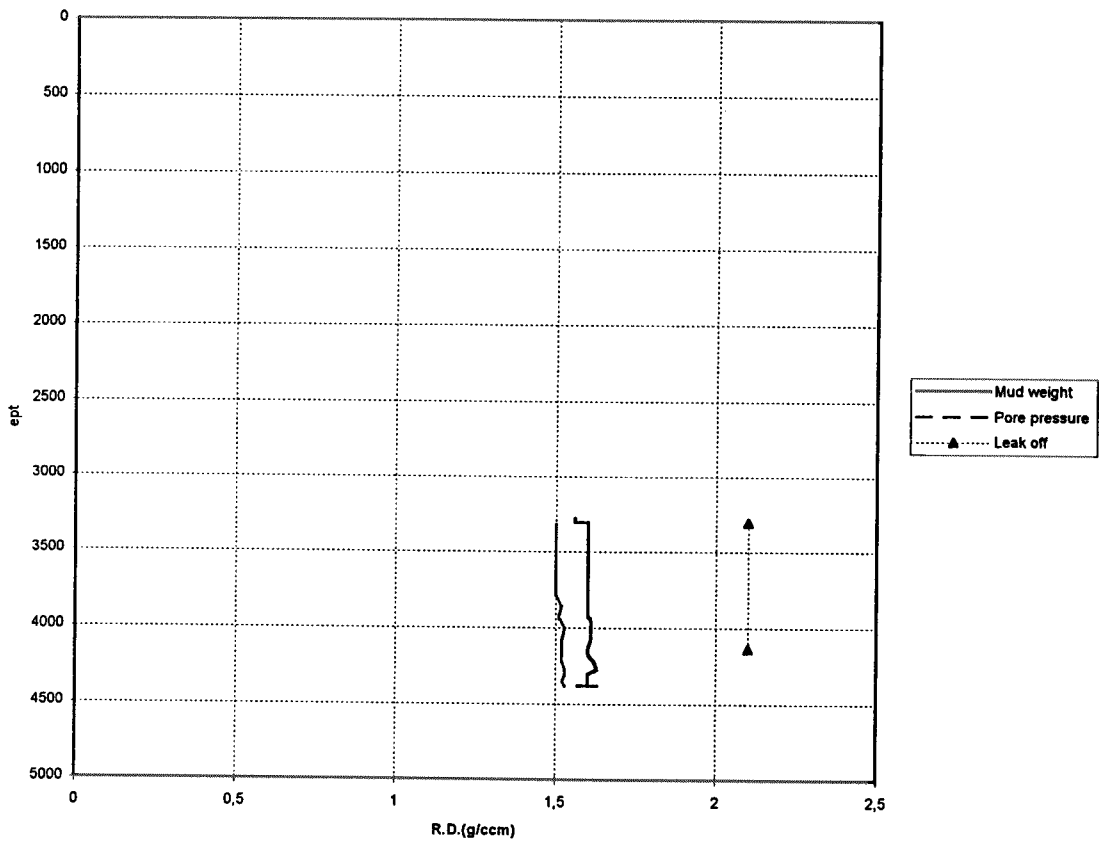
Sub operation:	Minutes:	Hours:	% of total:
CEMENT PLUG	105	1,8	2,56
CIRC/COND	375	6,3	9,16
EQUIP RECOVERY	1080	18,0	26,37
MECHANICAL PLUG	135	2,3	3,30
OTHER	120	2,0	2,93
TRIP	2070	34,5	50,55
WAIT	210	3,5	5,13
Total	4095	68,3	100,00

Total time used: 1296,0 Hours

Depth v.s. time plot for well: 2/1-9 A



Composite plot for well: 2/1-9 A



WELL HISTORY 2/1 -9 A

GENERAL:

Well 2/1 -9 A were designed to appraise the 2/1 -9 discovery in the Upper Jurassic Gyda Formation, by side-tracking updip to the crest of the Gyda South structure. If successful, the well could at a later stage be completed as a producer and tie back to Gyda platform.

The structure is a fault/dip closure, which lies in the Late Jurassic fairway on the eastern flank of the Central Graben, 6 kilometres south of the Gyda field.

OPERATION:

2/1 -9 was re-entered on the 18 January 1992 by the semi submersible rig "Ross Isle", and completed on the 9 March 1992 at a depth of 4379m MD BRT in Haugesund Formation.

The well was kicked off and side-tracked in 8 1/2" hole from 3270m MD BRT. Six cores (178m) were cut in the 8 1/2" hole. All cores had 100% recovery with excellent shows being observed throughout coring. Core 1 to 5 covered the Gyda sandstone member with core 6 entering a mud stone member below. No H₂S was observed whilst coring -despite having high level contingency due to H₂S seen on well 2/1 -9.

Problems were experienced during subsequent TD logging with stuck logging tools and stuck pipe whilst attempting to retrieve the tool. In addition a 9bbl influx had to be circulated out during this time. The logs observed no OWC. The well was suspended as a potential future Gyda subsea producer.

TESTING:

Logging and RFT results were such that a DST was not required.

Geological Tops.

Well: 2/1-9 A.

Depth m (RKB).

Shetland Group	3256.0
Tor Fm	3256.0
Hod Fm	3618.0
Blodøks Fm	3778.0
Hidra Fm	3799.0
Cromer Knoll Group	3819.0
Rødby Fm	3819.0
Sola Fm	3870.0
Tuxen Fm	3881.0
Åsgard Fm	3900.0
Tyne Group	4068.0
Mandal Fm.	4068.0
Farsund Fm.	4084.0
Haugesund Fm.	4329.0
T.D	4385.0