

WDSS Report

Date: 22/10/96

PB/SKR

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Well no:	Operator:
2/07-24	PHILLIPS

Well

Coordinates :	56° 18' 33.00" N 03° 19' 23.56" E	UTM coord. :	6240675.2 N 519997.7 E
License no :	18	Permit no :	653
Rig :	ROSS ISLE	Rig type :	SEMI-SUB.
Contractor :	TRANSNOR RIG AS		
Bottom hole temp:	130 °C	Elev. KB :	22.3 M
Spud. date :	90.11.07	Water depth :	71 M
Compl. date :	91.04.13	Total depth :	5023 M
Spud. class :	WILDCAT	Form. at TD :	L.JURASSIC
Compl. class :	P&A. DRY HOLE	Prod.form. :	
Seisloca :	PC 88 - 389, SP. 1090		

Licenseses

7.594000 ELF PETROLEUM NORGE AS
.456000 ELF REP NORGE A/S
.399000 ELF REX NORGE AS
30.000000 FINA PRODUCTION LICENCES AS
6.700000 NORSK HYDRO PRODUKSJON AS
.304000 NORMINOL A/S
36.960000 PHILLIPS PETROLEUM COMPANY NORWAY
1.000000 DEN NORSKE STATS OLJESELSKAP A.S
3.547000 TOTAL NORGE AS
13.040000 NORSK AGIP 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	127.0	36	128.0	
INTERM.	20	458.0	26	464.0	
INTERM.	13 3/8	1525.0	17 1/2	1531.0	1.93
INTERM.	9 5/8	3041.0	12 1/4	3044.0	2.09

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LINER	7	3918.0	8 1/2	3923.0	2.15
OPEN HOLE		5023.0	5 7/8	5023.0	

Conventional Cores

Core no.	Intervals cored meters	Recovery m	%
1	4483.9 - 4500.7	17.1	100.0

Mud

Depth	Mud weight	Visc.	Mud type
464.8	1.08	13.0	WATER BASED
464.8	1.20	15.0	WATER BASED
841.6	1.32	28.0	WATER BASED
1447.8	1.37	34.0	WATER BASED
1531.6	1.46	54.0	WATER BASED
1737.7	1.47	39.0	WATER BASED
2887.7	1.68	54.0	WATER BASED
2977.9	1.70	54.0	WATER BASED
3045.6	1.74	68.0	WATER BASED
3048.6	1.85	55.0	WATER BASED
3085.8	1.86	51.0	WATER BASED
3162.6	1.89	51.0	WATER BASED
3192.8	1.94	55.0	WATER BASED
3208.6	1.92	51.0	WATER BASED
3270.8	1.89	46.0	WATER BASED
3297.9	1.92	37.0	WATER BASED
3307.7	1.97	48.0	WATER BASED
3350.4	1.98	44.0	WATER BASED
3351.3	1.99	41.0	WATER BASED
3377.8	1.94	78.0	WATER BASED
3387.5	1.92	52.0	WATER BASED
3417.1	1.94	40.0	WATER BASED
3497.6	1.95	38.0	WATER BASED
3639.9	1.97	22.0	WATER BASED
3905.1	1.99	14.0	WATER BASED
3923.7	1.99	17.0	WATER BASED
4605.5	1.94	19.0	WATER BASED
4729.3	1.97	20.0	WATER BASED
4865.5	1.95	21.0	WATER BASED

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4887.5	1.97	20.0	WATER BASED
4936.5	1.95	20.0	WATER BASED
4978.9	1.97	21.0	WATER BASED
5023.1	2.01	15.0	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	466 - 4877	570

Shallow Gas

Interval below KB	Remarks

Available Logs

Log type	Intervals logged	1/200	1/500
CBL VDL CCL GR	4850.0 - 12506.0		
CDM AP	10500.0 - 12883.0		
CDM AP/SHDT MSD	12873.0 - 16239.0		
DIL BHC AMS GR	3823.0 - 5021.0		

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DIL BHC GR AMS	12870.0 - 16472.0		
DIL SLS CAL AMS GR	302.0 - 4981.0		
DIT SLS GR	5505.0 - 9982.0		
DITE LSS CAL AMS GR	9988.0 - 10646.0		
DITE SLS AMS GR	5010.0 - 9998.0		
DLL BHC MSFL AMS GR	9988.0 - 12869.0		
DLL MSFL BHC AMS GR	3923.0 - 4568.0		
DLL MSFL BHC AMS GR	12870.0 - 14986.0		
DLL MSFL BHC SP GR	3044.0 - 3922.0		
DRILLING DATA LOG	302.0 - 16480.0		
DRILLING DATA PRESS.	302.0 - 16480.0		
FMS AMS GR	9988.0 - 12886.0		
LDL AMS GR	5010.0 - 10000.0		
LDL CNL GR	5010.0 - 9986.0		
LDL CNL NGL AMS	2923.0 - 16340.0		
MUD	1525.0 - 16480.0		
MWD	423.0 - 12873.0		
NGT RATIOS	12870.0 - 16248.0		
RFT GR	10792.0 - 12381.0		
RFTB GR	10121.0 - 10791.0		
SHDT NGL	12870.0 - 16248.0		
SYNTHETIC SEISMOGRAM			
WSC	3500.0 - 12850.0		
VSP	3500.0 - 12850.0		

Main operations for well: 2/7-24

Main operation: DRILLING

Sub operation:	Minutes:	Hours:	% of total:
BOP ACTIVITIES	6010	100,2	4,63
BOP/WELLHEAD EQ	3190	53,2	2,46
CASING	15710	261,8	12,09
CIRC/COND	12590	209,8	9,69
DRILL	63270	1054,5	48,70
OTHER	790	13,2	0,61
PRESS DETECTION	5230	87,2	4,03
REAM	1100	18,3	0,85
SURVEY	380	6,3	0,29
TRIP	20400	340,0	15,70
UNDERREAM	1260	21,0	0,97
Total	129930	2165,5	100,00

Main operation: FORMATION EVAL

Sub operation:	Minutes:	Hours:	% of total:
CIRC SAMPLES	1150	19,2	4,80
CIRC/COND	2760	46,0	11,51
CORE	660	11,0	2,75
LOG	10710	178,5	44,66
RFT/FIT	1200	20,0	5,00
TRIP	7500	125,0	31,28
Total	23980	399,7	100,00

Main operation: INTERRUPTION

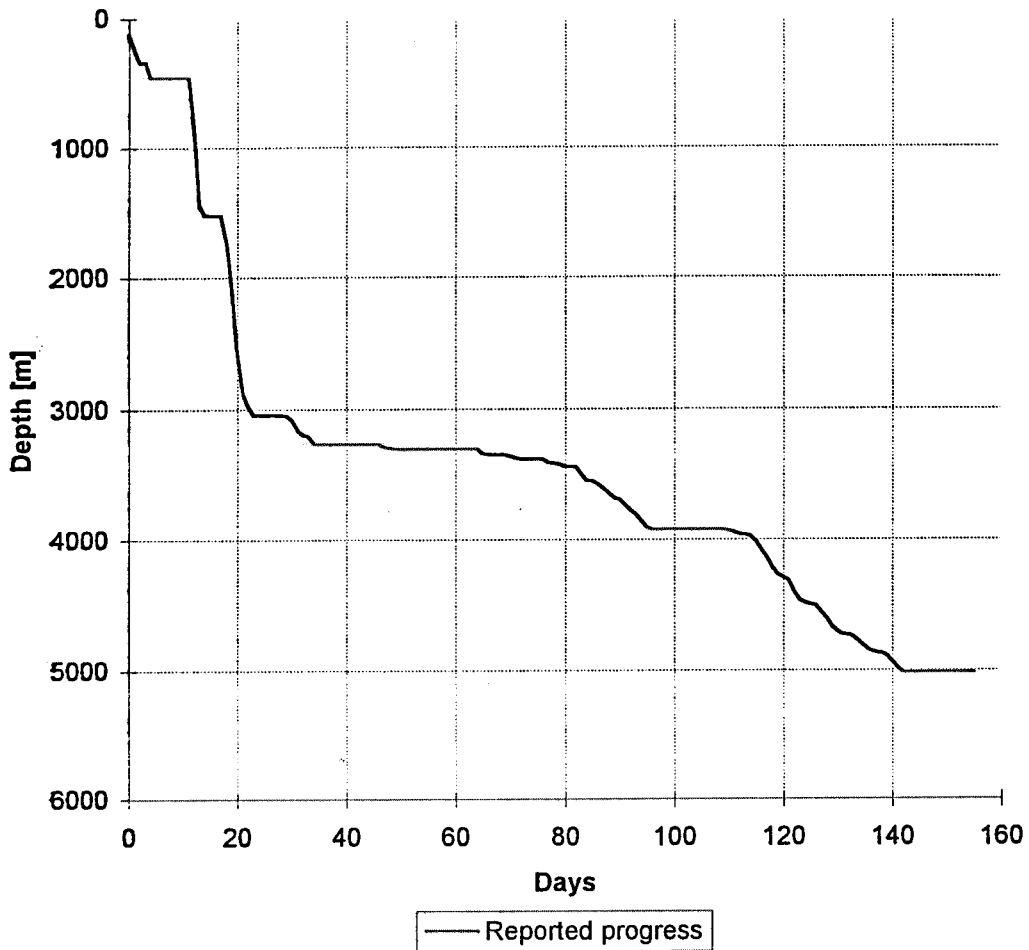
Sub operation:	Minutes:	Hours:	% of total:
FISH	2210	36,8	4,09
LOST CIRC	14580	243,0	27,01
MAINTAIN/REP	21750	362,5	40,29
OTHER	130	2,2	0,24
WAIT	11160	186,0	20,67
WELL CONTROL	4150	69,2	7,69
Total	53980	899,7	100,00

Main operation: PLUG & ABANDON

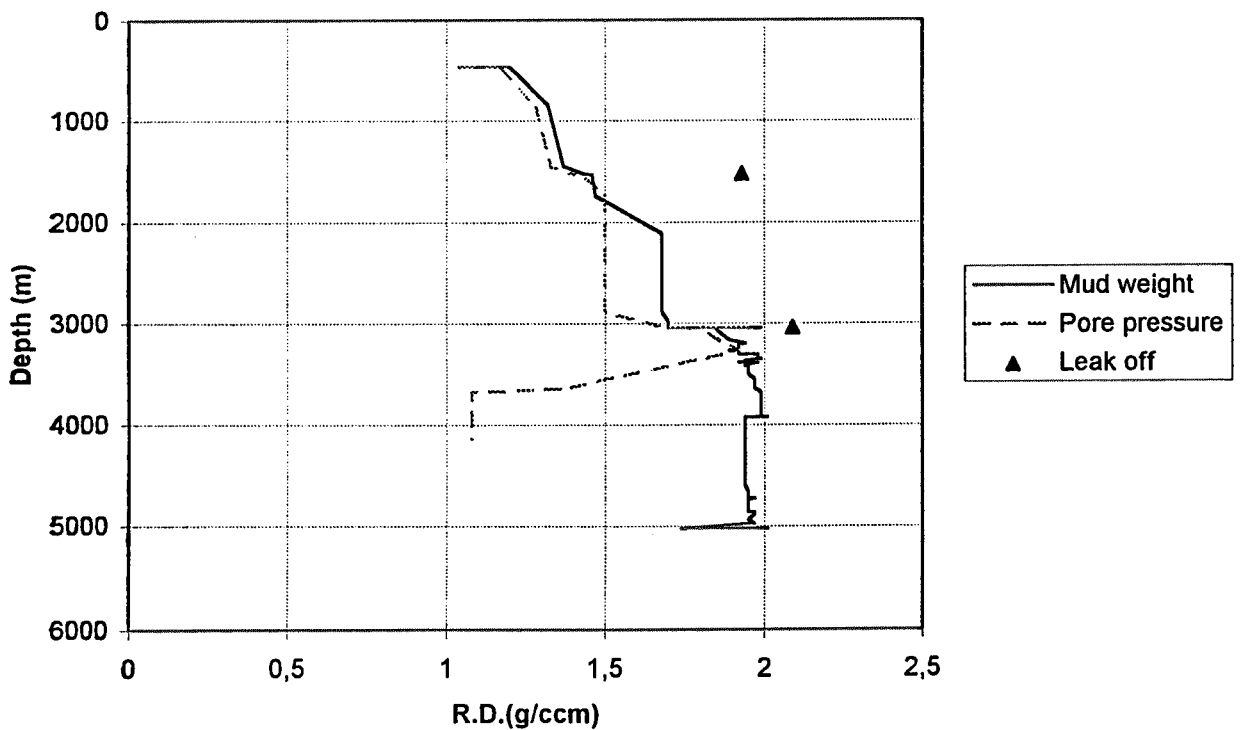
Sub operation:	Minutes:	Hours:	% of total:
CEMENT PLUG	2090	34,8	33,49
CIRC/COND	1210	20,2	19,39
CUT	670	11,2	10,74
EQUIP RECOVERY	590	9,8	9,46
MECHANICAL PLUG	300	5,0	4,81
OTHER	1030	17,2	16,51
PERFORATE	350	5,8	5,61
Total	6240	104,0	100,00

Total time used: Hours

Depth vs time for well: 2/7-24



Composite plot for well: 2/7-24



Well History 2/7-24.

General:

Well 2/7-24 was designed to drill the west Valhall Prospect, a Late Jurassic structure not earlier drilled. The structure is located in the Feda Graben on the west side of the Central Trough near the Skrubbe Fault, which was an eastward dipping normal fault during Late Jurassic deposition. The main objective was the Eldfisk Formation sandstones, a massflow deposit located on the east side of the fault. The sediments were interpreted to be sourced from a structurally high area near the Embla Field to the west, transported across the fault and deposited in the Feda Graben to the east. A secondary objective was sandstones associated with a seismic horizon called the Intra-Volgian Marker. The horizon was interpreted to show the structural configuration of sands which might have been encountered midway between the Base Cretaceous and the Intra Upper Jurassic Marker.

Structural inversion took place during the Late Cretaceous, due to regional compressional stress regime with possible complications from salt related movements. At the level of the primary objective the structure displays three way dip closure with fault closure on the western side against the Skrubbe fault. Small four way dip closures occur near top of this structure. The well was classified as high temperature/high pressure well.

Operations:

Wildcat well 2/7-24 was spudded by the semi-submersible rig Ross Isle 7 November 1990, and completed 13 April 1991 at a depth of 5023 in rocks of Late Jurassic age. One conventional core was cut in the Farsund Formation at a depth of 4488 m RKB. A total of 84 sidewall cores were attempted, and 35 were recovered. No shallow gas was encountered in this well.

The primary objective was encountered approximately 174 m higher than prognosed. The 2/7-24 well has shown that a reservoir quality clastic massflow deposit is not present at the well's position. The well encountered some thin sandstones below the Intra Upper Jurassic Marker, but they were discontinuous and not of reservoir quality as anticipated.

Some major problems occurred due to bad weather conditions, hole problems with loss of mud and problems with running logging equipment properly. In the 57/8" hole section the inclination increased to a maximum of 20°, whereafter the inclination decreased to 12,5° at TD. The well was permanently plugged and abandoned as a dry hole.

Testing:

No DST tests were performed in this well.

Geological Tops.

Well:.2/7-24.

	Depth m (RKB).
Nordland Group	92.2
Hordaland Group	1591.7
Rogaland Group	2674.3
Balder Fm	2674.3
Sele Fm	2681.4
Lista Fm	2709.1
Våle Fm	
Shetland Group	2734.1
Tor Fm	2734.1
Hod Fm	2743.8
Blodoks Fm	2966.3
Hidra Fm	2970.3
Cromer Knoll Group	2994.1
Rodby Fm	2994.1
Sola Fm	3017.6
Tuxen Fm	3080.7
Åsgard Fm	3109.3
Tyne Group	3195.3
Mandal Fm	3195.3
Farsund Fm	3317.2
T.D.	5023.2