

WDSS Report

Date: 24/09/96

PB/SKR

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Well no:	Operator:
30/09-12	HYDRO

Well

Coordinates :	60° 25' 57.09" N 02° 51' 34.90" E	UTM coord. :	6699747.91 N 492276.08 E
License no :	104	Permit no :	671
Rig :	TRANS. WILDCAT	Rig type :	SEMI-SUB.
Contractor :	TRANSNOR RIG AS		
Bottom hole temp:	102°C	Elev. KB :	25 M
Spud. date :	91.04.07	Water depth :	104 M
Compl. date :	91.05.09	Total depth :	2994 M
Spud. class :	APPRAISAL	Form. at TD :	E.JURASSIC
Compl. class :	P&A. OIL	Prod.form. :	
Seisloca :	NH 8831 - 143, KOL. 1039 (520)		

Licensees

5.000000 CONOCO PETROLEUM NORGE AS
 5.000000 DNO OLJE A/S
 30.000000 NORSK HYDRO PRODUKSJON AS
 5.000000 SAGA PETROLEUM ASA
 50.000000 DEN NORSKE STATS OLJESELSKAP A.S
 5.000000 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	214.0	36	216.0	
INTERM.	13 3/8	1002.0	17 1/2	1019.0	1.61
INTERM.	9 5/8	2528.0	12 1/4	2545.0	1.69
OPEN HOLE		2994.0	8 1/2	2994.0	

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Conventional Cores

Core no.	Intervals cored meters	Recovery m	%
1	2617.0 - 2639.0	22.0	100.0
2	2663.0 - 2691.0	28.0	100.0
3	2691.0 - 2712.0	21.0	100.0
4	2714.0 - 2726.0	12.0	100.0
5	2726.0 - 2730.0	4.0	100.0
6	2730.0 - 2734.0	4.0	100.0
7	2734.0 - 2739.5	5.5	100.0
8	2739.5 - 2753.0	13.5	100.0
9	2758.5 - 2786.0	27.5	100.0
10	2788.0 - 2804.2	16.2	100.0

Mud

Depth	Mud weight	Visc.	Mud type
182.0	1.22		WATER BASED
216.0	1.05		WATER BASED
610.0	1.05		WATER BASED
1016.0	1.20		WATER BASED
1061.0	1.20	15.0	WATER BASED
1675.0	1.40	19.0	WATER BASED
2276.0	1.40	22.0	WATER BASED
2302.0	1.42	23.0	WATER BASED
2400.0	1.26	20.0	WATER BASED
2405.0	1.41	22.0	WATER BASED
2464.0	1.39	20.0	WATER BASED
2545.0	1.40	20.0	WATER BASED
2548.0	1.40	17.0	WATER BASED
2622.0	1.21	12.0	WATER BASED
2664.0	1.20	13.0	WATER BASED
2691.0	1.22	13.0	WATER BASED
2704.0	1.20	13.0	WATER BASED
2727.0	1.20	12.0	WATER BASED
2738.0	1.20	13.0	WATER BASED
2759.0	1.20	12.0	WATER BASED
2788.0	1.20	14.0	WATER BASED
2805.0	1.21	14.0	WATER BASED
2994.0	1.21	13.0	WATER BASED

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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	1030 - 2992	210
CUTTINGS	1020 -2992	360

Shallow Gas

Interval below KB	Remarks

Available Logs

Log type	Intervals logged	1/200	1/500
AMS	1004.0 - 2967.0		
CBL	1000.0 - 2528.0		
CDM AP/SHDT MSD	2530.0 - 2994.0		
CST	2543.0 - 2970.0		
DIL LSS SGR SP	2528.0 - 2994.0		
DIL LSS SP GR	1004.0 - 2543.0		

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DIL LSS SP SGR GR	1004.0 - 2994.0			
DLL MSFL GR	2528.0 - 2801.0			
DLL MSFL GR SP	2475.0 - 2801.0			
FMS GR	2528.0 - 2995.0			
LDL CNL GR	1004.0 - 2994.0			
LDL CNL GR	2528.0 - 2801.0			
LDL CNL SGR	2528.0 - 2994.0			
LDL GR	1004.0 - 2532.0			
MUD	129.0 - 2994.0			
MWD	128.0 - 2995.0			
NGS RATIOS	2528.0 - 2967.0			
POST SITE SURVEY				
RFT HP	2661.0 - 2780.0			
SYNTHETIC SEISMOGRAM				
TWO-WAY TRAVEL TIME	100.0 - 2600.0			
WALKAWAY VSP				
VSP				
VSP-CALIBRATED SONIC	1025.0 - 3000.0			

Main operations for well: 30/9-12

Main operation: DRILLING

Sub operation:	Minutes:	Hours:	% of total:
BOP ACTIVITIES	660	11,0	3,18
BOP/WELLHEAD EQ	810	13,5	3,90
CASING	3750	62,5	18,06
CIRC/COND	510	8,5	2,46
DRILL	9030	150,5	43,50
OTHER	90	1,5	0,43
PRESS DETECTION	30	0,5	0,14
TRIP	5880	98,0	28,32
Total	20760	346,0	100,00

Main operation: FORMATION EVAL

Sub operation:	Minutes:	Hours:	% of total:
CIRC SAMPLES	180	3,0	1,08
CIRC/COND	660	11,0	3,96
CORE	5040	84,0	30,22
LOG	3780	63,0	22,66
OTHER	510	8,5	3,06
RFT/FIT	630	10,5	3,78
TRIP	5880	98,0	35,25
Total	16680	278,0	100,00

Main operation: INTERRUPTION

Sub operation:	Minutes:	Hours:	% of total:
MAINTAIN/REP	2130	35,5	35,15
OTHER	1980	33,0	32,67
WAIT	1950	32,5	32,18
Total	6060	101,0	100,00

Main operation: MOVING

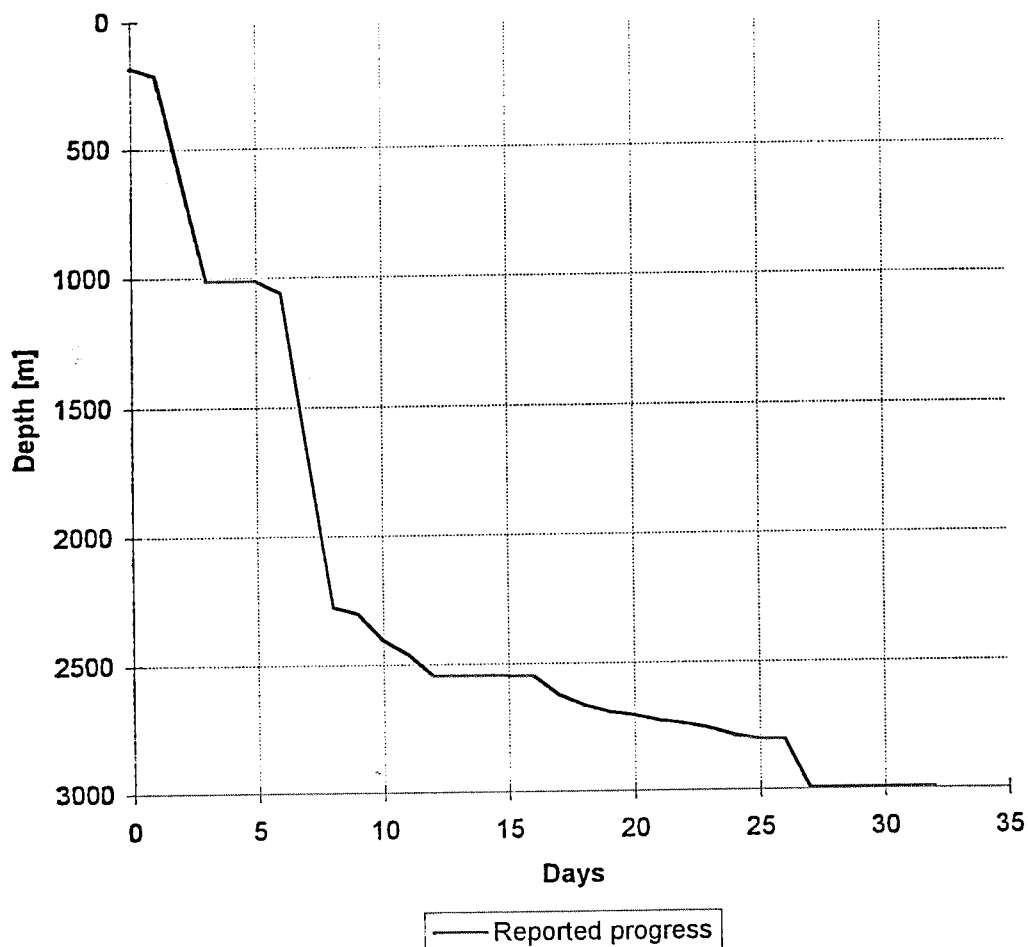
Sub operation:	Minutes:	Hours:	% of total:
ANCHOR	600	10,0	22,47
TRANSIT	2070	34,5	77,53
Total	2670	44,5	100,00

Main operation: PLUG & ABANDON

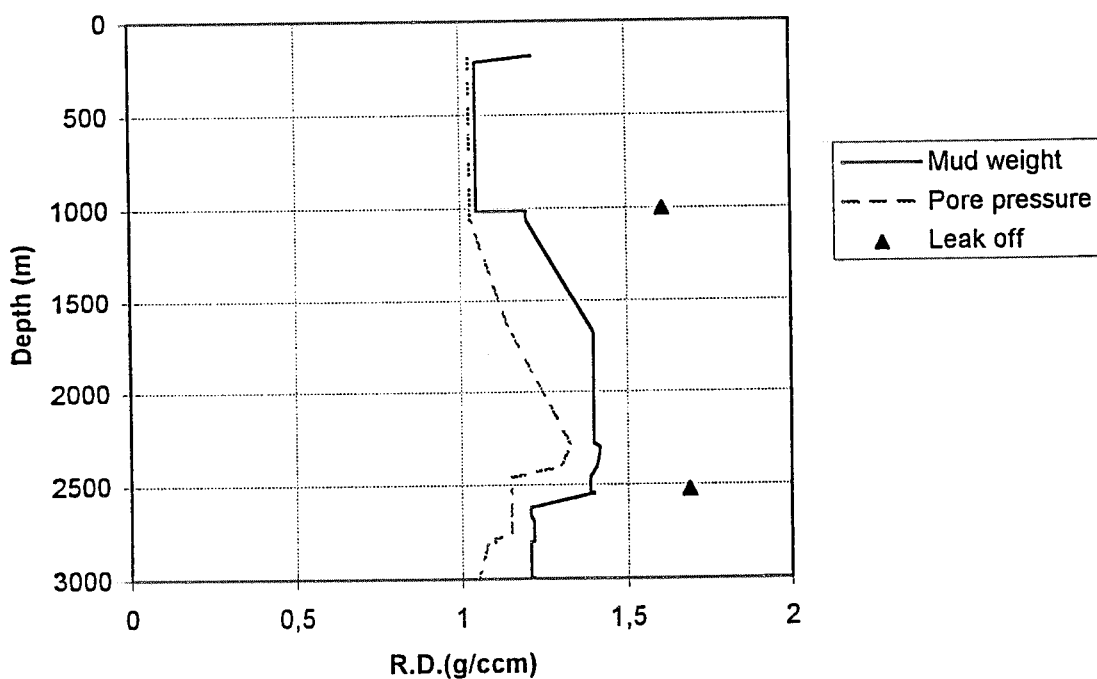
Sub operation:	Minutes:	Hours:	% of total:
CEMENT PLUG	210	3,5	7,53
CIRC/COND	210	3,5	7,53
CUT	300	5,0	10,75
OTHER	270	4,5	9,68
TRIP	1800	30,0	64,52
Total	2790	46,5	100,00

Total time used: Hours

Depth vs time for well: 30/9-12



Composite plot for well: 30/9-12



Well History 30/9-12

General:

Well 30/9-12 was designed to appraise the southern extension of the Oseberg Field on the Alpha and Gamma South structure some 4 km south of well 30/9-2.

The main objectives of the well were:

- 1) to improve the seismic mapping of the Alpha South/ Gamma structural complex.
- 2) to improve stratigraphical mapping and control of the hydrocarbon bearing Brent Group in the area.
- 3) to test an oil/water contact in relation to the Oseberg Field and the C-structure.
- 4) to test communication relations in the Oseberg Field.

The well was planned to drill 50 m into the Cook Formation. A reflection amplitude anomaly at 184 m RKB might be a shallow gas indication.

Operations:

Appraisal well 30/9-12 was spudded 7 April 1991 by the semi-submersible rig Vildkat Explorer and completed 9 May 1991 at a total depth of 2994 m RKB within the Cook Formation of the Dunlin Group. No shallow gas was observed while drilling. Drilling went on without any significant problems. The well proved oil in the Tarbert Formation but as no oil/water contact was established, uncertainty remained as to the amount of hydrocarbon resources within the southern part of the Alpha South structure. A total of 10 conventional cores were cut, one in the Heather Formation and nine through the entire Brent sequence and into the top Dunlin. A total of 30 sidewall cores were attempted in the interval 2580-2969.5 m RKB, and 25 were recovered. Twenty tree RFT pre-test were taken and one segregated oil sample was collected. The pressure data obtained from the well indicated a significant depletion caused by production of Oseberg B. The well was plugged back and completed for side-tracking.

Testing:

No DST tests were performed

Geological Tops.

Well: 30/9-12

	Depth m (RKB).
Nordland Group	129.0
Utsira Fm	646.0
Hordaland Group	842.0
Rogaland Group	2018.5
Balder Fm	2018.5
Sele Fm	2083.0
Lista Fm	2247.0
Våle Fm	2317.0
Shetland Group	2325.0
Cromer Knoll Group	2523.0
Viking Group	2563.0
Draupne Fm	2563.0
Heather Fm	2609.0
Brent Group	2660.0
Tarbert Fm	2660.0
Ness Fm	2675.5
Etive Fm	2752.0
Rannoch Fm	2770.0
Broom Fm	2780.0
Dunlin Group	2790.5
Drake Fm	2790.5
Cook Fm	2944.0
T.D.	2994.0