

WDSS Report

Date: 24/09/96

PB/ABS

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Well no:	Operator:
30/09-12 A	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 :	683
Rig :	VILDKAT EXPLORER	Rig type :	SEMI-SUB.
Contractor :	TRANSNOR RIG AS	Elev. KB :	25 M
Bottom hole temp:	101 °C	Water depth :	104 M
Spud. date :	91.05.09	Total depth :	3061 M
Compl. date :	91.06.04	Form. at TD :	E.JURASSIC
Spud. class :	APPRAISAL	Prod.form. :	
Compl. class :	SUSPENDED. OIL		
Seisloca :	NH 8831, ROW 143, COLUMN 520		

Licensees

- 5.000000 CONOCO PETROLEUM NORGE AS
- 5.000000 DNO OLJE A/S
- 30.000000 NORSK HYDRO PRODUKSJON AS
- 5.000000 SAGA PETROLEUM A.S.
- 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	
CONDUCTOR	13 3/8	1002.0	17 1/2	1019.0	
INTERM.	9 5/8	2717.0	12 1/4	2824.0	1.61
OPEN HOLE		3061.0	8 1/2	3061.0	

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Conventional Cores

Core no.	Intervals cored meters	Recovery m	%
1	2874.0 - 2876.0	2.0	100.0
2	2877.0 - 2887.0	10.0	100.0
3	2888.0 - 2899.0	11.0	100.0
4	2901.0 - 2904.0	3.0	100.0
5	2906.0 - 2912.0	6.0	100.0
6	2914.0 - 2920.0	6.0	100.0

Mud

Depth	Mud weight	Visc.	Mud type
300.0	1.20	13.0	WATER BASED
1017.0	1.26	20.0	WATER BASED
1474.0	1.39	19.0	WATER BASED
2100.0	1.40	20.0	WATER BASED
2419.0	1.42	21.0	WATER BASED
2549.0	1.40	20.0	WATER BASED
2600.0	1.20	13.0	WATER BASED
2658.0	1.40	19.0	WATER BASED
2681.0	1.41	12.0	WATER BASED
2709.0	1.40	19.0	WATER BASED
2750.0	1.39	18.0	WATER BASED
2750.0	1.40	18.0	WATER BASED
3061.0	1.20	13.0	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	1040 - 3060	180
CUTTINGS	1040 - 3060	300

Shallow Gas

Interval below KB	Remarks

Available Logs

Log type	Intervals logged	1/200	1/500
AMS	1004.0 - 2710.0		
AMS	2718.0 - 2907.0		
AMS	2718.0 - 3030.0		
CDM AP/SHDT MSD	2721.0 - 3051.0		
DIL LSS SP GR	1004.0 - 2738.0		
DIL LSS SP SGR	2718.0 - 3062.0		
DIL LSS SP SGR GR	1003.0 - 3062.0		
DLL MSFL SP GR	2718.0 - 2919.0		
DRLG DATA.PRESS.LOG	1033.0 - 3600.0		
FMS GR	2718.0 - 3061.0		
LDL CNL GR	2718.0 - 2907.0		
LDL CNL SGR	2718.0 - 3042.0		
LDL CNL SGR GR	1003.0 - 3042.0		
LDL GR	1004.0 - 2710.0		
MUD	1033.0 - 2994.0		
MWD MD+TV D	1033.0 - 3061.0		

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NGS RATIOS	2718.0 - 3033.0			
RFT HP AMS GR	2874.0 - 2979.0			
RFT HP GR	2776.0 - 2903.0			
SYNTHETIC SEISMOGRAM				
TWO WAY TRAVEL TIME				
WELLSITE LITHOLOGY	1033.0 - 2350.0			
VELOCITY LOG	1050.0 - 2900.0			
VSP				

Main operations for well: 30/9-12 A

Main operation: DRILLING

Sub operation:	Minutes:	Hours:	% of total:
BOP ACTIVITIES	630	10,5	2,88
BOP/WELLHEAD EQ	150	2,5	0,68
CASING	3060	51,0	13,97
CIRC/COND	150	2,5	0,68
DRILL	12360	206,0	56,44
REAM	390	6,5	1,78
SURVEY	30	0,5	0,14
TRIP	5130	85,5	23,42
Total	21900	365,0	100,00

Main operation: FORMATION EVAL

Sub operation:	Minutes:	Hours:	% of total:
CIRC SAMPLES	120	2,0	1,18
CIRC/COND	210	3,5	2,06
CORE	2190	36,5	21,53
LOG	2970	49,5	29,20
OTHER	120	2,0	1,18
RFT/FIT	1320	22,0	12,98
TRIP	3240	54,0	31,86
Total	10170	169,5	100,00

Main operation: INTERRUPTION

Sub operation:	Minutes:	Hours:	% of total:
MAINTAIN/REP	2430	40,5	100,00
Total	2430	40,5	100,00

Main operation: MOVING

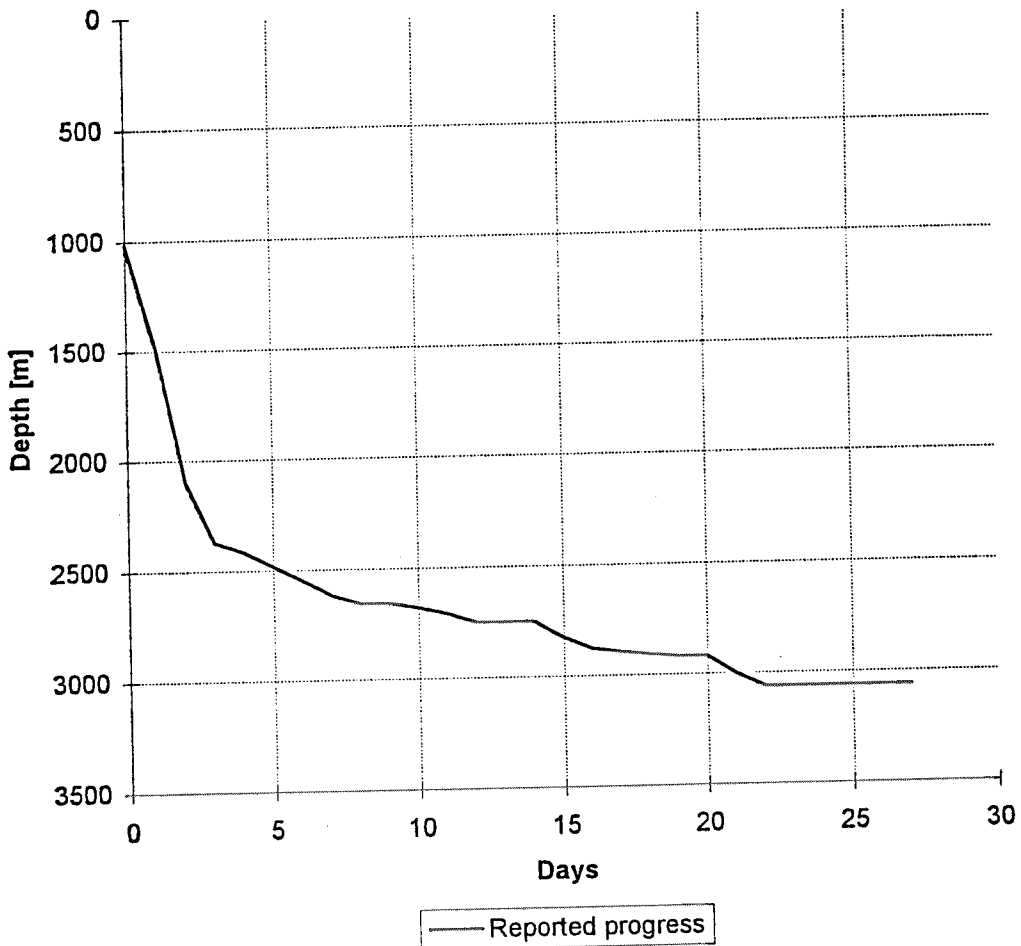
Sub operation:	Minutes:	Hours:	% of total:
ANCHOR	600	10,0	64,52
TRANSIT	330	5,5	35,48
Total	930	15,5	100,00

Main operation: PLUG & ABANDON

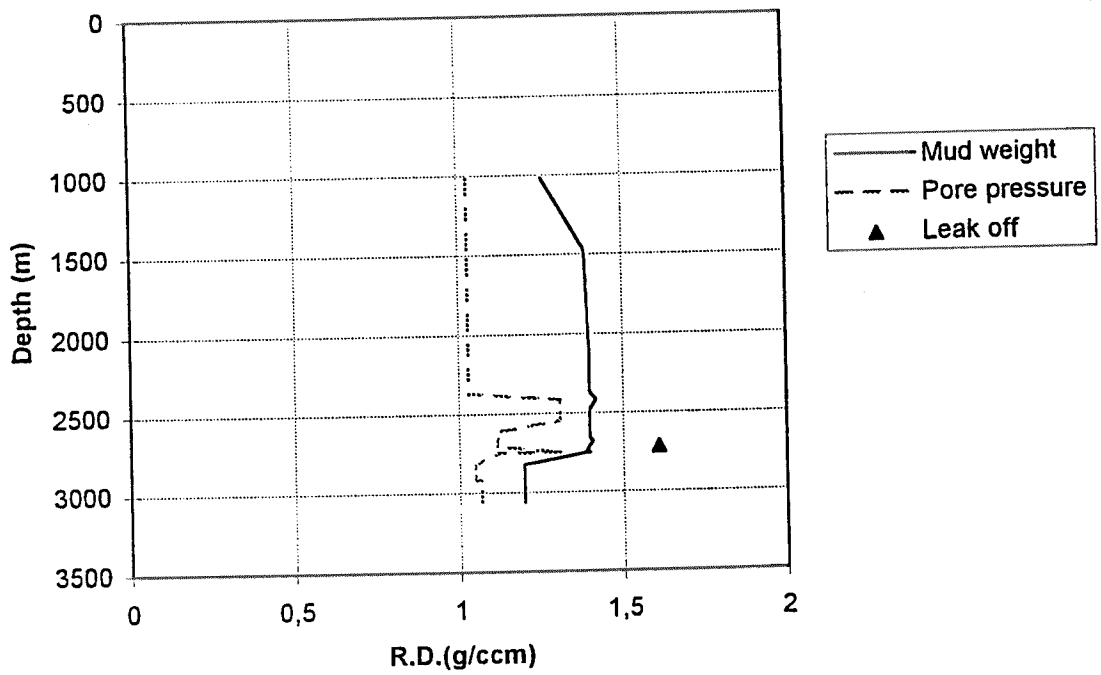
Sub operation:	Minutes:	Hours:	% of total:
CEMENT PLUG	180	3,0	5,04
CIRC/COND	60	1,0	1,68
EQUIP RECOVERY	1260	21,0	35,29
MECHANICAL PLUG	480	8,0	13,45
TRIP	1590	26,5	44,54
Total	3570	59,5	100,00

Total time used: Hours

Depth vs time for well: 30/9-12 A



Composite plot for well: 30/9-12 A



Well History 30/9-12 A

General:

Well 30/9-12 A was designed as a side-track of well 30/9-12 on the Alpha South structure on the southern extension of the Oseberg Field, with kick-off at 1040 m RKB. Well 30/9-12 proved oil within the Tarbert Formation, with a net pay zone of 12 m. The side-track of well 30/9-12 approximately 700 m south-eastwards had the following objectives:

- 1) establish the water pressure within the Tarbert Formation and prove the oil/water contact for the area.
 - 2) verify the structural mapping and geological model.
- No drilling hazards were anticipated.

Operations:

Appraisal well 30/9-12 A was spudded 9 May 1991 by the semi-submersible rig Vildkat Explorer and completed 5 June 1991 at a total depth of 3061 m RKB MD within the Drake Formation of the Dunlin Group. The well encountered an unexpected sandstone development in the Heather Formation which proved to be hydrocarbon bearing. Sandstones of the Brent Group were penetrated below the regional oil/water contact and were found to be totally water bearing. A total of 6 conventional cores were cut in this well within the interval 2874-2919m RKB MD. A total of 30 sidewall cores were attempted and 28 were recovered. Drilling went on without any significant problems to TD. The well was temporarily plugged and abandoned as a minor oil discovery.

Testing:

No DST tests were performed

Geological Tops.

Well: 30/9-12 A.

	Depth m (RKB).
Hordaland Group	1033.0
Rogaland Group	2088.0
Balder Fm	2088.0
Sele Fm	2176.5
Lista Fm	2339.0
Våle Fm	2417.0
Shetland Group	2422.0
Cromer Knoll Group	2637.5
Viking Group	2692.0
Draupne Fm	2692.0
Heather Fm	2734.0
Brent Group	2868.5
Tarbert Fm	2868.5
Ness Fm	2886.5
Rannoch Fm	2963.0
Dunlin Group	3007.0
Drake Fm	3007.0
T.D.	3061.0