

WDSS Report

Date: 04/03/98

PB/SKR

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Well no:	Operator:
31/02-17 A	HYDRO

Well

Coordinates :	60° 52' 57.08" N 03° 27' 05.79" E	UTM coord. :	6749946.42 N 524516.87 E
License no :	54	Permit no :	716
Rig :	TRANSOCEAN 8	Rig type :	SEMI-SUB.
Contractor :	TRANSOCEAN ASA		
Bottom hole temp:	85 °C	Elev. KB :	24 M
Spud. date :	92.01.20	Water depth :	340 M
Compl. date :	92.01.31	Total depth :	1924 M
Spud. class :	APPRAISAL	Form. at TD :	JURASSIC
Compl. class :	P&A. OIL/GAS	Prod.form. :	
Seisloca :	NH-8901, LINJE 794, SP. 1404		

Licensees

3.105000 ELF PETROLEUM NORGE AS
4.900000 NORSK HYDRO PRODUKSJON AS
25.900000 A/S NORSKE SHELL
58.800000 DEN NORSKE STATS OLJESELSKAP A.S
1.000000 TOTAL NORGE AS
6.295000 NORSKE CONOCO 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	451.0	36	452.0	
INTERM.	18 5/8	906.0	26	921.0	
INTERM.	13 3/8	1642.0	17 1/2	1643.0	1.33

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Conventional Cores

Core no.	Intervals cored meters	Recovery m	%
1	1703.0 - 1710.3	7.3	100.0
2	1710.5 - 1714.7	4.2	100.0
3	1714.5 - 1740.6	26.1	100.0
4	1740.6 - 1745.4	4.8	100.0
5	1756.0 - 1782.3	26.3	100.0

Mud

Depth	Mud weight	Visc.	Mud type
926.0	1.35	49.0	OIL BASED
1546.0	1.38	50.0	OIL BASED
1580.0	1.25	35.0	OIL BASED
1652.0	1.38	44.0	OIL BASED
1652.0	1.38	46.0	OIL BASED
1652.0	1.38	44.0	OIL BASED
1703.0	1.26	31.0	OIL BASED
1755.0	1.26	29.0	OIL BASED
1847.0	1.26	29.0	OIL BASED
1924.0	1.25	30.0	OIL BASED
1924.0	1.26	35.0	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 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

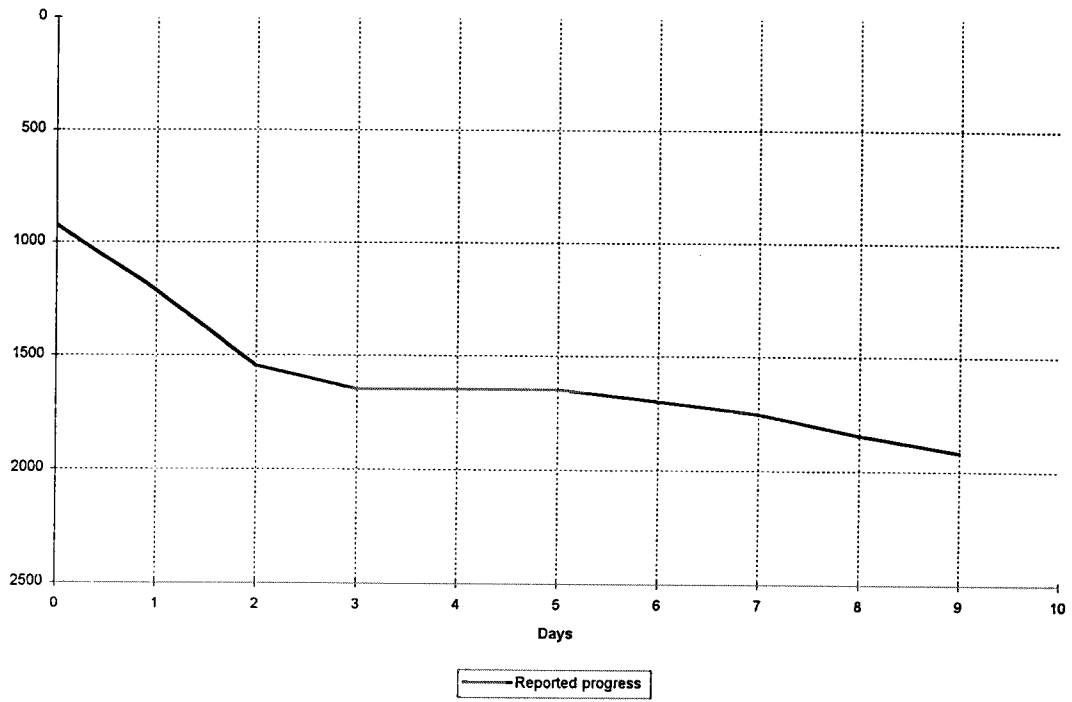
Shallow Gas

Interval below KB	Remarks

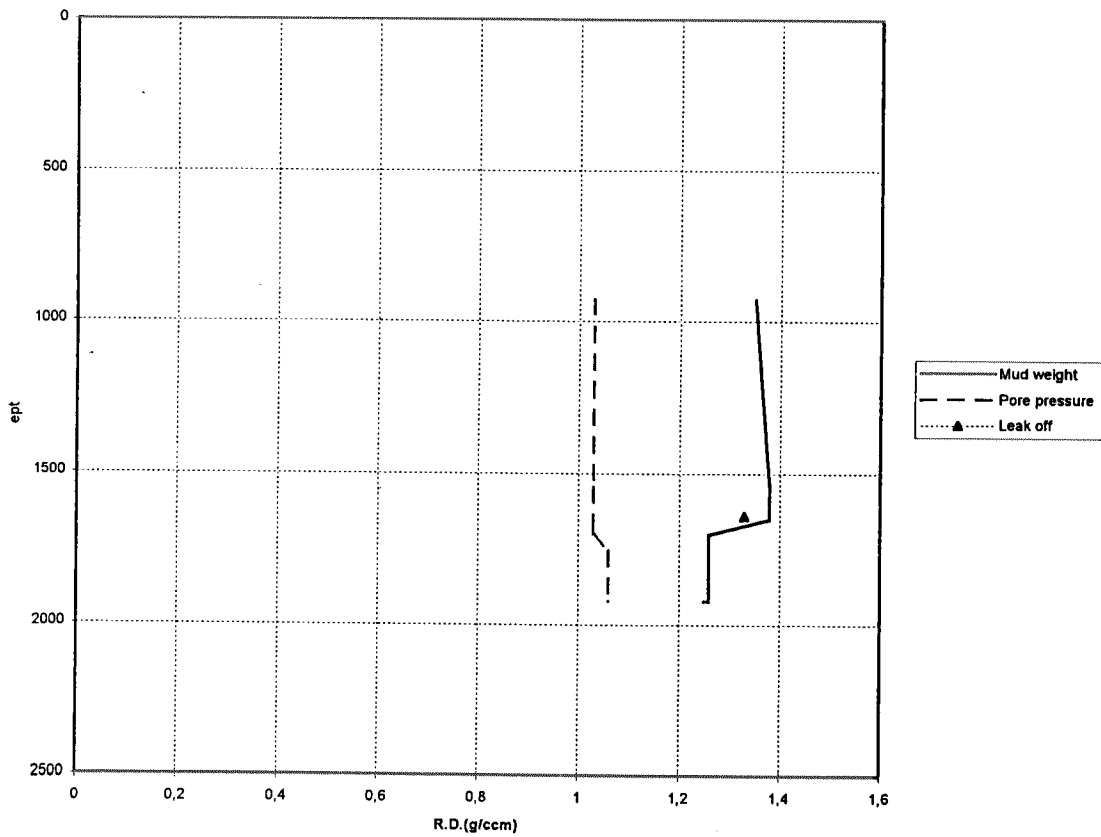
Available Logs

Log type	Intervals logged	1/200	1/500	
DITE PI AS GR	1643.0 - 1922.0			
DRILLING DATA	909.0 - 1924.0			
GR CCL CASING LOG	350.0 - 1650.0			
GYRO SURVEY	364.0 - 1630.0			
LDL CNL AMS GR	857.0 - 1923.0			
LDL CNL GR	857.0 - 1923.0			
MUD FORMATIONGIST	1645.0 - 1938.0			
MUD FORMATION	909.0 - 1924.0			
MWD LOG	900.0 - 1910.0			
PI AS AMS GR	1643.0 - 1922.0			
WELLSITE LITHOLOGY	909.0 - 1924.0			

Depth v.s. time plot for well: 31/2-17 A



Composite plot for well: 31/2-17 A



Main operations for well: 31/2-17 A

Main operation: DRILLING

Sub operation:	Minutes:	Hours:	% of total:
BOP ACTIVITIES	300	5,0	2,95
CASING	2760	46,0	27,14
CIRC/COND	600	10,0	5,90
DRILL	4200	70,0	41,30
OTHER	360	6,0	3,54
TRIP	1950	32,5	19,17
Total	10170	169,5	100,00

Main operation: FORMATION EVAL

Sub operation:	Minutes:	Hours:	% of total:
CIRC SAMPLES	180	3,0	3,85
CIRC/COND	120	2,0	2,56
CORE	930	15,5	19,87
LOG	1710	28,5	36,54
TRIP	1740	29,0	37,18
Total	4680	78,0	100,00

Main operation: INTERRUPTION

Sub operation:	Minutes:	Hours:	% of total:
MAINTAIN/REP	1260	21,0	100,00
Total	1260	21,0	100,00

Main operation: MOVING

Sub operation:	Minutes:	Hours:	% of total:
TRANSIT	1530	25,5	100,00
Total	1530	25,5	100,00

Main operation: PLUG & ABANDON

Sub operation:	Minutes:	Hours:	% of total:
CEMENT PLUG	810	13,5	75,00
TRIP	270	4,5	25,00
Total	1080	18,0	100,00

Total time used: Hours

WELL HISTORY 31/2-17 (S, A, B)

GENERAL:

The objective was to obtain the thickness of the oil zone and reservoir properties in the Intermediate Area. The drilling operation was divided into three phases, drilling of the wells 31/2-17 S, 31/2-17 A and 31/2-17 B, all being drilled from the same wellhead location. The well 31/2-17S and 31/2-17A is located on each side of a fault subdividing the intermediate area into two main compartments. Well 31/2-17 S is located on the eastern side of the fault. Well 31/2-17SA, which was side-tracked from well 31/2-17 S, was turned 180 degrees and landed on the western side of the fault. Well 31/2-17S B was side-tracked from well 31/2-17S A and drilled to a horizontally position about 5m above the oil water contact.

OPERATION:

Well 31/2-17 S: The Gas-Oil-Contact was penetrated at 1972m MD RKB in "Heather B" Formation. The Oil-Water-Contact was penetrated at 2011m MD RKB also in the "Heather B" Formation.

Well 31/2-17 SA: This well was kicked off from 31/2-17 S at 909m MD RKB. The Gas-Oil-Contact was penetrated at 1725.4m MD RKB in the Sognefjord Formation. The Oil-Water-Contact was penetrated at 1746.5m MD RKB also in the Sognefjord Formation.

Well 31/2-17 SB: This well was kicked off from 31/2-17SA at 1645m MD RKB, and the well angle was built up to approximately 90 degrees. One horizontal core (2.8 m) was taken at TD. The Gas-Oil-Contact was assumed the same as in well 31/2-17SA.

31/2-17S and 31/2-17A were plugged and abandoned, while well 31/2-17B was temporary plugged.

TESTING:

No DST tests were performed in these wells.

Geological Tops.

Well: 31/2-17 A.

Depth m (RKB).

Hordaland Group	900.0
Rogaland Group	1412.0
Balder Fm	1412.0
Sele Fm	1454.0
Lista Fm	1501.0
Våle Fm	1667.0
Viking Group	1681.0
Draupne Fm	1681.0
Sognefjord Fm	1688.0
Heather Fm	1748.0
Fensfjord Fm	1894.0
T.D.	1924.0