

WDSS Report

Date: 04/03/98

PB/ABS

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Well no:	Operator:
31/02-17 B	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 :	719
Rig :	TRANSOCEAN 8	Rig type :	SEMI-SUB.
Contractor :	TRANSOCEAN ASA		
Bottom hole temp:	80 °C	Elev. KB :	23.5 M
Spud. date :	92.02.01	Water depth :	340 M
Compl. date :	92.02.14	Total depth :	1838 M
Spud. class :	APPRAISAL	Form. at TD :	U.JURASSIC
Compl. class :	SUSP. 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	909.0	
INTERM.	13 3/8	1642.0	17 1/2	1644.0	1.33
INTERM.	9 5/8	1815.0	12 1/4	1838.0	

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Conventional Cores

Core no.	Intervals cored meters	Recovery m	%
1	1833.5 - 1836.3	2.8	100.0

Mud

Depth	Mud weight	Visc.	Mud type
1764.0	1.25	30.0	OIL BASED
1815.0	1.25	28.0	OIL BASED
1829.0	1.26	31.0	OIL BASED
1838.0	1.26	31.0	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

Shallow Gas

Interval below KB	Remarks

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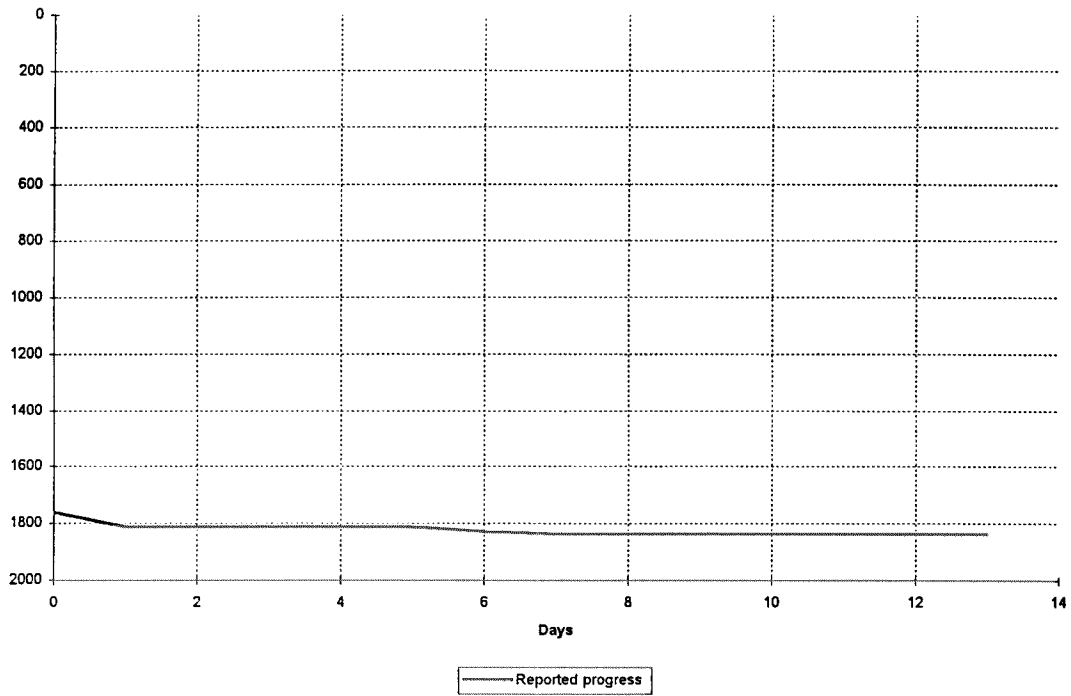
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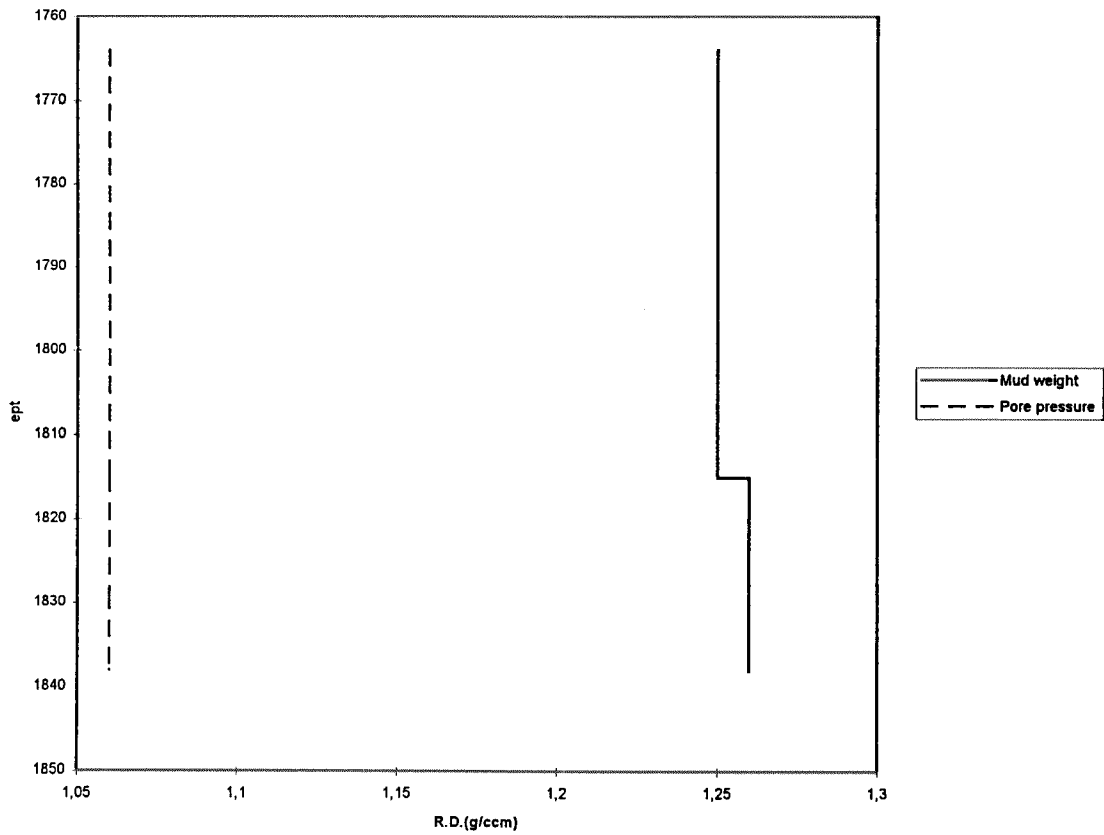
Available Logs

Log type	Intervals logged	1/200	1/500	
MUD FORMATIONGIST	1645.0 - 1938.0			
MWD LOG	1500.0 - 1569.0			
MWD LOG	1642.0 - 1821.0			

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



Composite plot for well: 31/2-17 B



Main operations for well: 31/2-17 B

Main operation: DRILLING

Sub operation:	Minutes:	Hours:	% of total:
BOP/WELLHEAD EQ	1020	17,0	13,99
CASING	1740	29,0	23,87
CIRC/COND	540	9,0	7,41
DRILL	1440	24,0	19,75
OTHER	30	0,5	0,41
TRIP	2520	42,0	34,57
Total	7290	121,5	100,00

Main operation: FORMATION EVAL

Sub operation:	Minutes:	Hours:	% of total:
CORE	990	16,5	100,00
Total	990	16,5	100,00

Main operation: INTERRUPTION

Sub operation:	Minutes:	Hours:	% of total:
FISH	3510	58,5	66,10
MAINTAIN/REP	1140	19,0	21,47
WAIT	660	11,0	12,43
Total	5310	88,5	100,00

Main operation: MOVING

Sub operation:	Minutes:	Hours:	% of total:
ANCHOR	510	8,5	48,57
TRANSIT	540	9,0	51,43
Total	1050	17,5	100,00

Main operation: PLUG & ABANDON

Sub operation:	Minutes:	Hours:	% of total:
CEMENT PLUG	150	2,5	2,72
CIRC/COND	660	11,0	11,96
EQUIP RECOVERY	2070	34,5	37,50
MECHANICAL PLUG	930	15,5	16,85
OTHER	90	1,5	1,63
TRIP	960	16,0	17,39
WAIT	660	11,0	11,96
Total	5520	92,0	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 B.

Depth m (RKB).

Rogaland Group	1645.0
Lista Fm	1645.0
Våle Fm	1667.0
Viking Group	1686.0
Sognefjord Fm	1686.0
T.D.	1838.0