

WDSS Report

Date: 17/06/98

PB/SKR

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Well no:	Operator:
7316/05-01	HYDRO

Well

Coordinates :	73°31'12.78"N 16°25'55.87"E	UTM coord. :	8159282.45 N 545346.81 E
License no :	184	Permit no :	740
Rig :	POLAR PIONEER	Rig type :	SEMI-SUB.
Contractor :	POLAR FRONTIER DRILLING A/S		
Bottom hole temp:	152 °C	Elev. KB :	23 M
Spud. date :	92.07.21	Water depth :	454 M
Compl. date :	92.10.05	Total depth :	4027 M
Spud. class :	WILDCAT	Form. at TD :	
Compl. class :	P&A. GAS DISCOVERY	Prod.form. :	
Seisloca :	NH 9109-112, SP. 543.49		

Licensees

10.000000 DEMINEX NORD A/S
20.000000 NORSK HYDRO PRODUKSJON AS
10.000000 MOBIL DEVELOPMENT NORWAY AS
50.000000 DEN NORSKE STATS OLJESELSKAP A.S
10.000000 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	559.0	36	560.0	
INTERM.	18 3/8	569.0	24	569.0	
LINER	16	877.0	24	878.0	1.66
INTERM.	9 5/8	2956.0	12 1/4	2973.0	1.60
OPEN HOLE		4027.0	8 1/2	4027.0	

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Conventional Cores

Core no.	Intervals cored meters	Recovery m	%
1	896.0 – 907.0	10.6	100.0
2	1347.5 – 1374.4	26.9	100.0
3	1460.5 – 1472.0	11.5	100.0

Mud

Depth	Mud weight	Visc.	Mud type
476.0	1.08	8.0	WATER BASED
506.0	1.24	13.0	WATER BASED
517.0	1.20	10.0	WATER BASED
555.0	1.24		WATER BASED
560.0	1.08	15.5	WATER BASED
561.0	1.20	14.0	WATER BASED
569.0	1.06	13.0	WATER BASED
574.0	1.40	14.0	WATER BASED
610.0	1.41	14.0	WATER BASED
613.0	1.41	16.0	WATER BASED
636.0	1.08	11.0	WATER BASED
722.0	1.41	14.0	WATER BASED
811.0	1.35	11.0	WATER BASED
875.0	1.07	5.0	WATER BASED
903.0	1.35	11.0	WATER BASED
906.0	1.30	11.0	WATER BASED
907.0	1.22	22.0	WATER BASED
921.0	1.22	22.0	WATER BASED
1025.0	1.22	21.0	WATER BASED
1174.0	1.22	22.0	WATER BASED
1231.0	1.24	13.0	WATER BASED
1310.0	1.24	13.0	WATER BASED
1347.0	1.22	22.0	WATER BASED
1370.0	1.24	12.0	WATER BASED
1405.0	1.24	12.0	WATER BASED
1410.0	1.24	9.0	WATER BASED
2207.0	1.22	19.0	WATER BASED
2753.0	1.22	17.0	WATER BASED
2973.0	1.22	20.0	WATER BASED
2988.0	1.25	18.0	WATER BASED
3063.0	1.25	12.0	WATER BASED
3178.0	1.25	12.0	WATER BASED
3242.0	1.25	14.0	WATER BASED

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3381.0	1.25	14.0	WATER BASED
3406.0	1.25	14.0	WATER BASED
3478.0	1.25	14.0	WATER BASED
3548.0	1.25	17.0	WATER BASED
3651.0	1.25	14.0	WATER BASED
3729.0	1.25	15.0	WATER BASED
3884.0	1.25	15.0	WATER BASED
3895.0	1.25	14.0	WATER BASED
3969.0	1.25	14.0	WATER BASED
4006.0	1.25	14.0	WATER BASED
4027.0	1.25	15.0	WATER BASED

Drill Stem Test (intervals and pressures)

Test no.	Test interval meter	Choke size	Pressure (psi) WHP	BTHP	FFP
1.0	1338.0 - 1350.0	25.4	926	1440	

Drill Stem Test (recovery)

Test no.	Oil Sm3/d	Gas Sm3/d	Oil grav. g/cm3	Gas grav. rel. air	GOR m3/m3
1.0		563000		0.600	

Drill Bit Cuttings and Wet Samples

Sample type	Interval below KB	Number of samples
WET SAMPLES	615 - 4027	485
CUTTINGS	580 - 4027	510

Shallow Gas

Interval below KB	Remarks

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Available Logs

Log type	Intervals logged	1/200	1/500	
CALIBRATED SONIC	700.0 - 4010.0			
CBL VDL GR	810.0 - 1510.0			
CST	567.0 - 843.0			
CST GR	885.0 - 2900.0			
CST GR	2974.0 - 4025.0			
DIL LSS DLL GR	569.0 - 4029.0			
DIL LSS GR SP	562.0 - 638.0			
DIL LSS SGR	876.0 - 2933.0			
DIL SLS GR	569.0 - 873.0			
DLL MSFL LSS GR SP	2957.0 - 4029.0			
DLL MSFL SGR SP	876.0 - 1767.0			
DPR RESISTIVITY GR	561.0 - 613.0			
DRILLING DATA	473.0 - 4027.0			
DRILLING PROGRESS	473.0 - 4027.0			
FMS-A/GR	2957.0 - 4029.0			
FORMATION EVALUATION	473.0 - 4027.0			
GR CORRELATION	1030.0 - 1300.0			
HP RFT GR	1340.0 - 1377.0			
LDL CNL GR	2957.0 - 4008.0			
LDL CNL NGS	1725.0 - 2915.0			
LDL CNL SGR	876.0 - 1759.0			
MSD	880.0 - 4027.0			
MWD LOG, MD	473.0 - 4027.0			
NGS RATIOS	876.0 - 2906.0			
SITE SURVEY	475.0 - 1250.0			1000
SYNTHETIC SEISMORGAM				
TWO WAY TRAVEL TIME				

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VSP				
WELLSITE GEOLOGIST	850.0 - 4000.0			
WELLSITE LITHOLOG	473.0 - 901.0			
WELLSITE LITHOLOGY	473.0 - 4027.0			
WIRELINE DATA	473.0 - 4027.0			10000

Main operations for well: 7316/5-1**Main operation: DRILLING**

Sub operation:	Minutes:	Hours:	% of total:
BOP ACTIVITIES	1800	30,0	3,66
BOP/WELLHEAD EQ	1200	20,0	2,44
CASING	10980	183,0	22,33
CIRC/COND	1380	23,0	2,81
DRILL	20760	346,0	42,22
HOLE OPEN	180	3,0	0,37
OTHER	360	6,0	0,73
PRESS DETECTION	150	2,5	0,31
REAM	720	12,0	1,46
SURVEY	720	12,0	1,46
TRIP	10440	174,0	21,23
UNDERREAM	480	8,0	0,98
Total	49170	819,5	100,00

Main operation: FORMATION EVAL

Sub operation:	Minutes:	Hours:	% of total:
CIRC SAMPLES	540	9,0	2,06
CIRC/COND	630	10,5	2,40
CORE	60	1,0	0,23
DST	14730	245,5	56,11
LOG	8130	135,5	30,97
OTHER	120	2,0	0,46
RFT/FIT	360	6,0	1,37
TRIP	1680	28,0	6,40
Total	26250	437,5	100,00

Main operation: INTERRUPTION

Sub operation:	Minutes:	Hours:	% of total:
FISH	3090	51,5	13,17
MAINTAIN/REP	2550	42,5	10,87
OTHER	900	15,0	3,84
WAIT	570	9,5	2,43
WELL CONTROL	16350	272,5	69,69
Total	23460	391,0	100,00

Main operation: MOVING

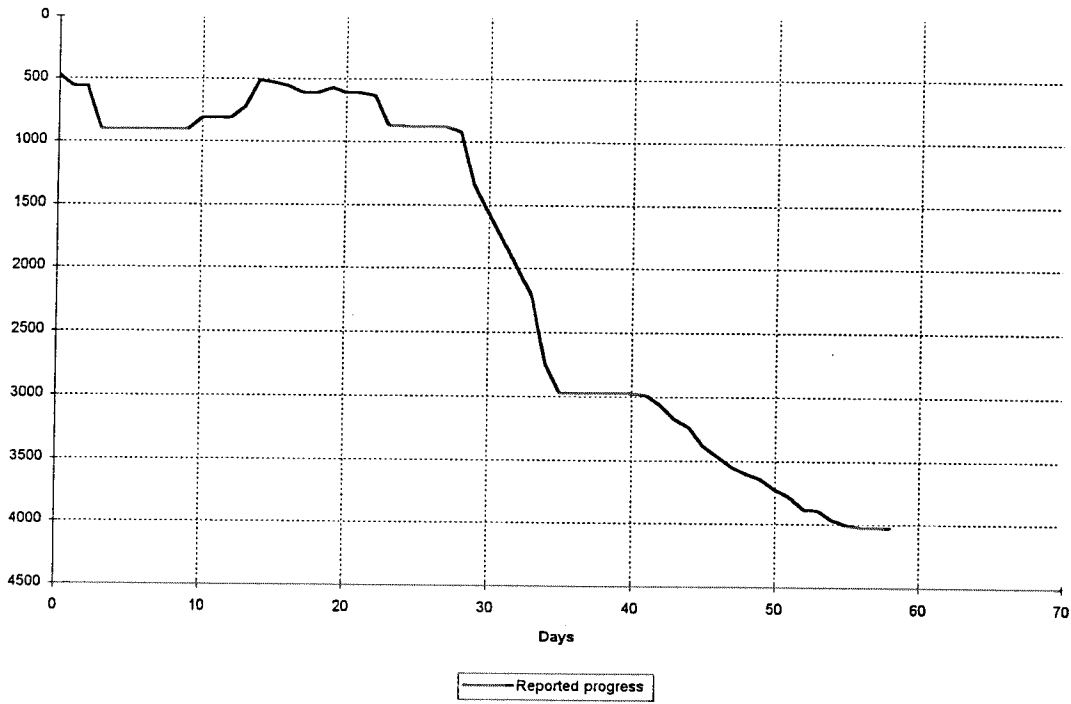
Sub operation:	Minutes:	Hours:	% of total:
ANCHOR	1830	30,5	19,30
TRANSIT	7650	127,5	80,70
Total	9480	158,0	100,00

Main operation: PLUG & ABANDON

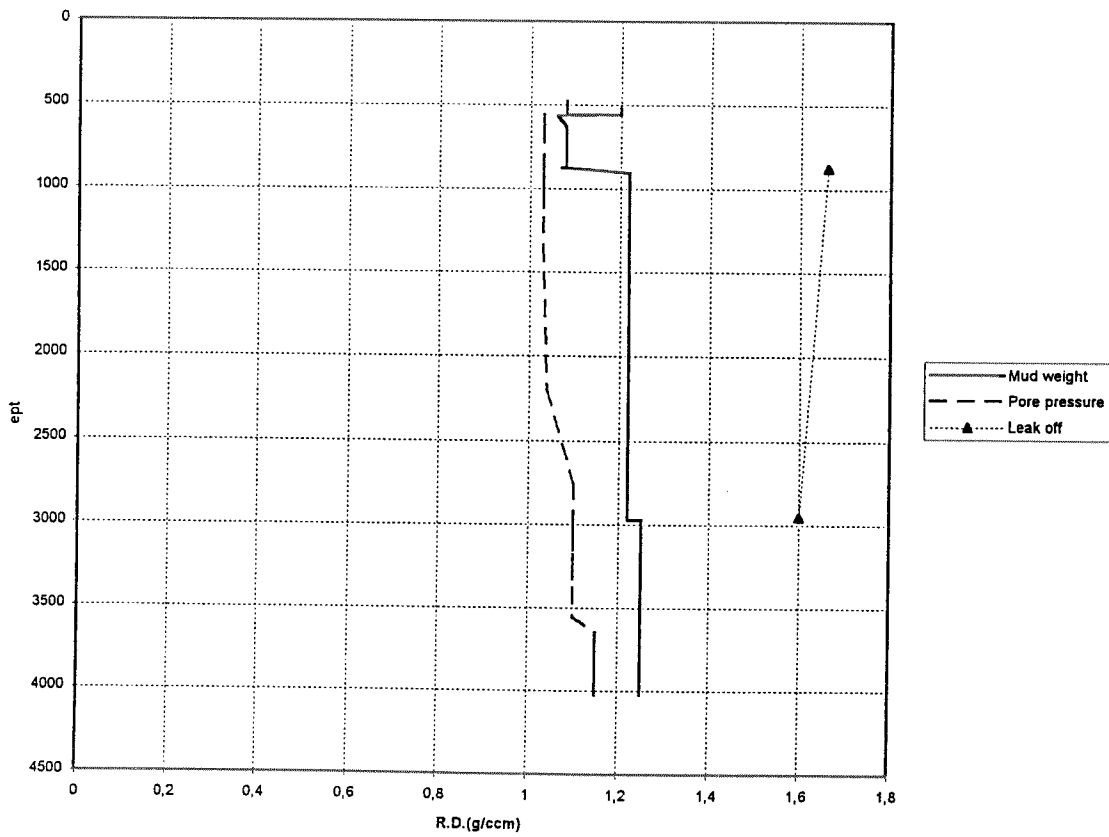
Sub operation:	Minutes:	Hours:	% of total:
CEMENT PLUG	180	3,0	3,09
CIRC/COND	120	2,0	2,06
CUT	270	4,5	4,64
EQUIP RECOVERY	1830	30,5	31,44
MECHANICAL PLUG	270	4,5	4,64
OTHER	390	6,5	6,70
TRIP	2760	46,0	47,42
Total	5820	97,0	100,00

Total time used: Hours

Depth v.s. time plot for well: 7316/5-1



Composite plot for well: 7316/5-1



WELL HISTORY 7316/5-1

GENERAL:

The well 7316/5-1 is located in the Vestbakken Volcanic Province of Bjørnøya West area.

The well is located about 150km south Southwest of Bjørnøya, and about 150 km North-west of well 7219/9-1 which is used for correlation purposes.

The Primary objective of the well was to appraise the potential of Tertiary prospect, which had been defined at lower Oligocene, and Upper Eocene levels. A secondary objective were to undertake a sampling and coring programme which would provide improved stratigraphical control in the area.

OPERATION:

Well 7316/5-1 was spudded on the 21st July 1992, and respudded on 5th August 1992 (due to shallow gas production and lost circulation) by the semi submersible rig "Polar Pioneer". The well was completed 6th October 1992 in rocks of Late Cretaceous age.

On the second attempt, an 8-1/2" pilot hole was drilled to 613m. A drilling break with associated gas production was observed at 606m and a cement plug was set over the interval 540m-597m.

The Uppermost sandstone of the Eocene Sotbakken Group B2 Member was encountered from 1340m to 1383m, and was considered gas bearing over the interval 1340-1358.5m. One core was cut in the sand from 1347.5m to 1375m. From gross thickness 43.0m, a total net pay thickness of 9.75m was calculated, giving a net/gross ratio of 0.23.

The well was plugged and abandoned as a gas discovery.

TESTING:

One DST test was performed in this well.

Geological Tops.

Well: 7316/5-1.

Depth m (RKB).

Nordland Group	473.0
Sotbakken Group	945.0
Torsk Fm	945.0
Nygrunnen Group	3751.5
Kviting Fm	3751.5
T.D.	4027.0