

Well no : 9/03-01 Operator : SHELL

Coordinates : 57 49 45.19 N UTM coord. : 6411210 N
 04 45 58.38 E 604894 E

Licence no : 115 Permit no : 525

Rig : BORGNY DOLPHIN Rig type : SEMI-SUB.

Contractor : DOLPHIN SERVICES A/S

Bottom hole temperature : deg.C Elev. KB : 25 M

Spud. date : 86.07.29 Water depth : 124 M

Compl. date : 86.09.04 Total depth : 1971 M

Spud. class : WILDCAT Form. at TD : TRIASSIC

Compl. class : P&A. DRY HOLE Prod. form :

Seisloca : LINJE 2261 SP. 105

LICENSEES

5.000000 DET NORSKE OLJESELSKAP AS
 30.000000 A/S NORSKE SHELL
 50.000000 DEN NORSKE STATS OLJESELSKAP A.S
 15.000000 TENNECO OIL NORWAY 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	204.5	36	215.0	.
SURF.COND.	20	528.0	26	540.0	1.40
INTERM.	13 3/8	1349.0	17 1/2	1360.0	1.80
OPEN HOLE		1971.0	12 1/4	1971.0	.

CONVENTIONAL CORES

Core no.	Intervals cored meters	Recovery M %	Series
1	1798.0 - 1805.4	7.4 100.0	

MUD PROPERTIES

Depth below KB meter	Mud weight g/cm3	Viscosity	Mud type
215.000	1.03	0.0	WATERBASED
540.000	1.08	10.0	WATERBASED
720.000	1.15	13.0	WATERBASED
931.000	1.17	12.0	WATER BASED
1159.000	1.20	12.0	WATER BASED
1210.000	1.50	0.0	WATER BASED
1316.000	1.21	13.0	WATER BASED
1360.000	1.20	18.0	WATER BASED
1426.000	1.21	21.0	WATER BASED
1562.000	1.20	15.0	WATER BASED
1610.000	1.26	21.0	WATER BASED

1757.000	1.40	30.0	WATER BASED
1798.000	1.42	30.0	WATER BASED
1914.000	1.55	28.0	WATER BASED
1953.000	1.50	30.0	WATER BASED
1971.500	1.51	29.0	WATER BASED
1972.000	1.50	28.0	WATER BASED

DRILL BIT CUTTINGS AND WET SAMPLES

SAMPLE TYPE	INTERVAL BELOW KB	NUMBER OF SAMPLES
Cutting	225-1969	450
Wet Samples	225-1969	180

SHALLOW GAS

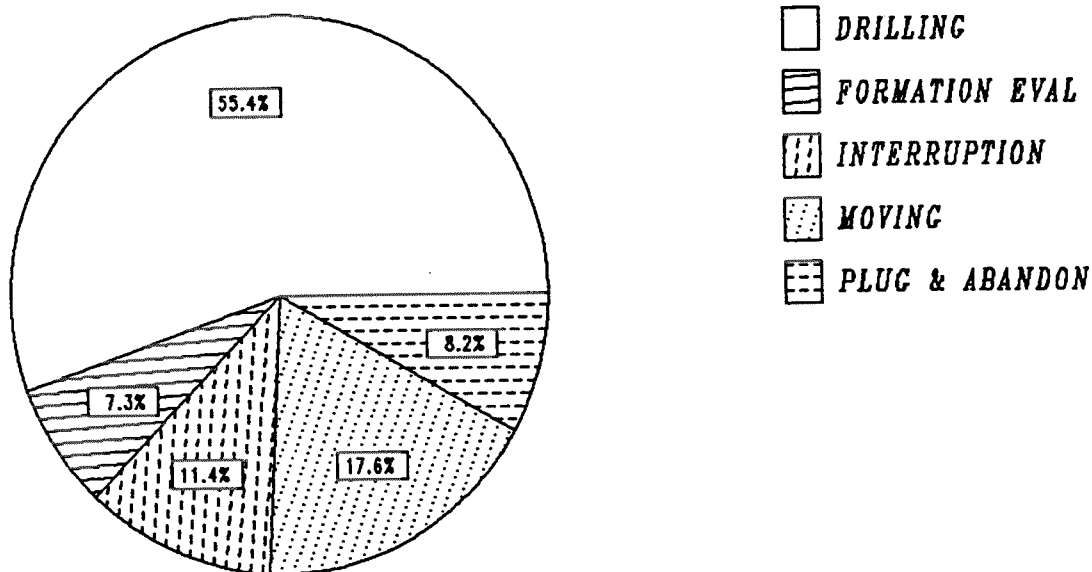
Interval below KB	REMARKS
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AVAILABLE LOGS

LOG TYPE	INTERVALS	1/200	1/500	Div.
ISF LSS GR LDL CNL	204.500 - 540.000	X	X	
ISF LSS GR	529.000 - 1356.000	X	X	
DIL LSS	1350.000 - 1970.000	X	X	
LDL CNL GR	204.500 - 540.700	X	X	
LDL CNL GR	529.000 - 1355.700	X	X	
LDL CNL NGL	1350.000 - 1971.200	X	X	
DLL MSFL GR	1349.600 - 1967.500	X		
CDM AP/SHDT MSD	530.000 - 1354.000	X	X	
SHDT	529.000 - 1354.000	X		
CDM AP/SHDT MSD	1350.000 - 1970.000	X	X	
SHDT	1350.000 - 1871.000	X		
RFT	180.000 - 1837.000			
CBL VDL CCL	230.000 - 1335.000	X		
MUD LOG	216.000 - 1971.500			
VELOCITY	205.000 - 1970.000	1:1000X		
(VSP, Zero offset , 10-20cm/s, plot 1-9			9 stk.)	
(Frequency test, 10cm/s.			5 stk.)	

DAILY DRILLING REPORT SYSTEM

Main operations for well : 0009/03 - 01



Total : 1128.00 hours

Main operation	Minutes	Hours	% of total
DRILLING	37470	624.50	55.36
FORMATION EVAL	4950	82.50	7.31
INTERRUPTION	7740	129.00	11.44
MOVING	11940	199.00	17.64
PLUG & ABANDON	5580	93.00	8.24

MAIN OPERATIONS FOR WELL : 0009 / 03 - 01

MAIN OPERATION : DRILLING

Sub operations	Minutes	Hrs	% of total
BOP ACTIVITIES	1290	21.50	3.44
BOP/WELLHEAD EQ	2070	34.50	5.52
CASING	4020	67.00	10.73
CIRC/COND	3150	52.50	8.41
DRILL	14130	235.50	37.71
HOLE OPEN	1110	18.50	2.96
OTHER	1680	28.00	4.48
PRESS DETECTION	300	5.00	0.80
REAM	720	12.00	1.92
SURVEY	1080	18.00	2.88
TRIP	7350	122.50	19.62
WAIT	570	9.50	1.52
Total	37470	624.50	100.00

MAIN OPERATION : FORMATION EVAL

Sub operations	Minutes	Hrs	% of total
CORE	60	1.00	1.21
LOG	4020	67.00	81.21
TRIP	870	14.50	17.58
Total	4950	82.50	100.00

MAIN OPERATION : INTERRUPTION

Sub operations	Minutes	Hrs	% of total
MAINTAIN/REP	1530	25.50	19.77
OTHER	4920	82.00	63.57
WAIT	1290	21.50	16.67
Total	7740	129.00	100.00

MAIN OPERATION : MOVING

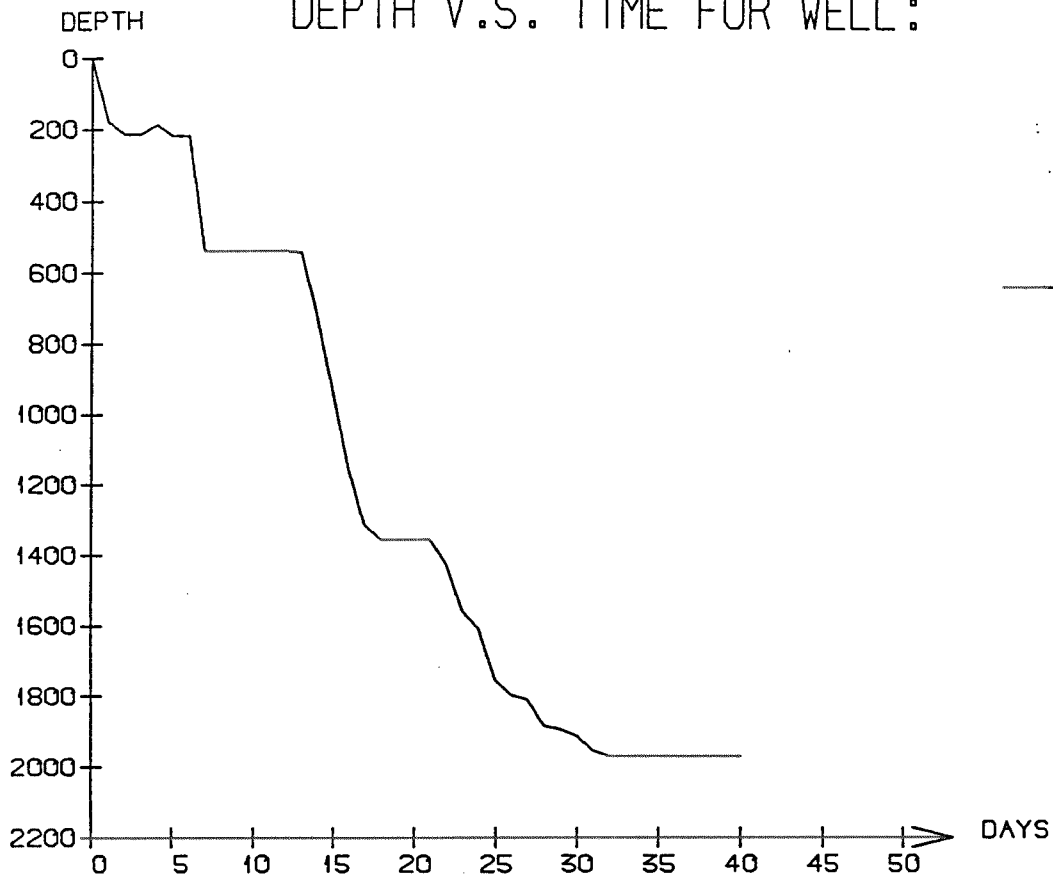
Sub operations	Minutes	Hrs	% of total
ANCHOR	2490	41.50	20.85
TRANSIT	9450	157.50	79.15
Total	11940	199.00	100.00

MAIN OPERATION : PLUG & ABANDON

Sub operations	Minutes	Hrs	% of total
CEMENT PLUG	720	12.00	12.90
CIRC/COND	90	1.50	1.61
CUT	240	4.00	4.30
EQUIP RECOVERY	150	2.50	2.69
OTHER	1800	30.00	32.26
PERFORATE	240	4.00	4.30
SQUEEZE	90	1.50	1.61
TRIP	1770	29.50	31.72
WAIT	480	8.00	8.60
Total	5580	93.00	100.00

Total time used 1128.00 hrs

DEPTH V.S. TIME FOR WELL:



— 000903 01

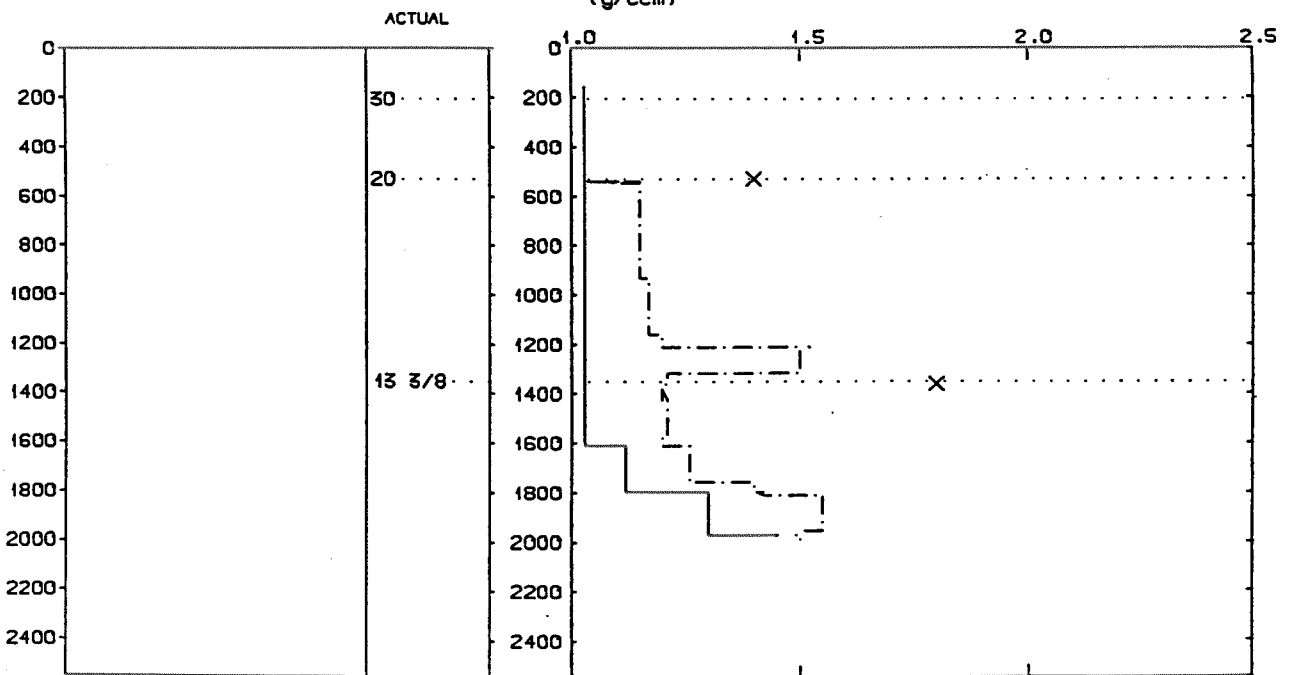
WELL: 000903 01 PRESSURE COMPOSITE PLOT

DEPTH
(RKB)
(METERS MD)

CASING

PRESSURE GRADIENTS
(g/ccm)

— PORE PRESSURE (REPORT)
 - - - MUDWEIGHT (REPORT)
 X LEAK-OFF (REPORT)



WELL History 9/3-1.

GENERAL:

Well 9/3-1 was drilled on a domal trap developed at the edge of the Stavanger Platform. The main objective of the well was to evaluate the sandstones of the Middle Jurassic Bryne Fm, Vestland Group, at a prognosed depth of 1805 m. The well was designed to achieve a valid test of the prospect with one well, and to ensure a satisfactory tie of well results to existing seismic data. The prognosed TD. was 2125 m RKB. The well was planned to fully penetrate the reservoir sequence and proceed 50 m deeper than the crest, into the underlying rocks of Triassic age.

OPERATIONS:

Wildcat well 9/3-1 was spudded 29 of July 1986 by Dolphin Services semi-submersibel rig Borgny Dolphin, and completed 4 September 1986 at a depth of 1972 in Triassic rocks. Drilling proceeded without any significant problems.

One core were cut in the interval 1798 -1814 m RKB. Top Bryne Fm came in at 1788 m RKB, 18 m above prognosed depth. The reservoir is waterbearing and there is no trace of hydrocarbons, no residuals or increase in background gas. The well is plugged and abandoned as a dry well.

TESTING:

GEOLOGICAL TOPS

WELL: 9/3-1

Depth m (RKB)

<i>Nordland Group</i>	124.0
<i>Hordaland Group</i>	223.0
<i>Rogaland Group</i>	454.0
<i>Balder Fm.</i>	454.0
<i>Sele Fm.</i>	468.0
<i>Lista Fm.</i>	476.0
<i>Maureen Fm.</i>	519.0
<i>Shetland Group</i>	532.0
<i>Ekofisk Fm.</i>	532.0
<i>Tor Fm.</i>	580.0
<i>Hod Fm.</i>	754.0
<i>Blodøks Fm</i>	833.0
<i>Cromer Knoll Group</i>	880.0
<i>Sola Fm.</i>	880.0
<i>Åsgard Fm</i>	923.0
<i>Boknafjord Group</i>	1433.0
<i>Flekkefjord Fm</i>	1433.0
<i>Sauda Fm.</i>	1488.0
<i>Tau Fm.</i>	1686.0
<i>Egersund Fm.</i>	1749.0
<i>Vestland Group</i>	1788.0
<i>Sandnes Fm.</i>	1788.0
<i>Bryne Fm.</i>	1814.0
<i>Triassic Group</i>	1955.0
<i>Skagerak Fm.</i>	1955.0
<i>TD</i>	1972.0