

WDSS Report

Date: 26/03/98

PB/SKR

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Well no:	Operator:
6407/09-08	SHELL

Well

Coordinates :	64° 23' 07.69" N 07° 57' 37.47" E	UTM coord. :	7140556.61 N 449852.14 E
License no :	93	Permit no :	739
Rig :	WEST VANGUARD	Rig type :	SEMI-SUB.
Contractor :	A/S SMEDVIG DRILLING CO.		
Bottom hole temp:	65 °C	Elev. KB :	22 M
Spud. date :	92.08.14	Water depth :	230 M
Compl. date :	92.09.22	Total depth :	2126 M
Spud. class :	WILDCAT	Form. at TD :	E.JURASSIC
Compl. class :	RE-CLASS. TO PROD.	Prod.form. :	
Seisloca :	X-OVER MELLOM SH 9002- 570 OG 1215		

Licensees

21.000000 A/S NORSKE SHELL
65.000000 DEN NORSKE STATS OLJESELSKAP A.S
14.000000 BP PETROLEUM DEV. OF NORWAY 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	309.7	36	310.0	
INTERM.	18 5/8	1110.0	26	1112.0	
INTERM.	13 3/8	1553.3	17 1/2	1555.0	1.62
INTERM.	9 5/8	2118.0	12 1/4	2120.0	1.73

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Conventional Cores

Core no.	Intervals cored meters	Recovery m	%
1	1605.0 – 1622.1	17.1	100.0
2	1623.0 – 1633.1	10.1	100.0
3	1633.5 – 1642.2	8.7	100.0
4	1650.0 – 1666.0	16.0	100.0
5	1666.0 - 1685.0	18.9	100.0
6	1723.0 - 1742.0	18.8	100.0
7	1742.0 – 1758.6	16.6	100.0

Mud

Depth	Mud weight	Visc.	Mud type
310.0	1.02	200.0	WATER BASED
316.0	1.01	200.0	WATER BASED
360.0	1.02	200.0	WATER BASED
477.0	1.02	200.0	WATER BASED
674.0	1.02	200.0	WATER BASED
840.0	1.02	200.0	WATER BASED
1117.0	1.02	200.0	WATER BASED
1120.0	1.04	58.0	WATER BASED
1125.0	1.40	60.0	WATER BASED
1400.0	1.40	60.0	WATER BASED
1582.0	1.40	87.0	WATER BASED
1598.0	1.14	37.0	WATER BASED
1650.0	1.15	39.0	WATER BASED
1666.0	1.15	40.0	WATER BASED
1702.0	1.16	40.0	WATER BASED
1742.0	1.16	39.0	WATER BASED
1800.0	1.17	39.0	WATER BASED
1962.0	1.15	38.0	WATER BASED
2126.0	1.15	38.0	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 Sm ³ /d	Gas Sm ³ /d	Oil grav. g/cm ³	Gas grav. rel. air	GOR m ³ /m ³

Drill Bit Cuttings and Wet Samples

Sample type	Interval below KB	Number of samples
WET SAMPLES	1130 - 2127	997
CUTTINGS	1130 - 2127	210

Shallow Gas

Interval below KB	Remarks

Available Logs

Log type	Intervals logged	1/200	1/500	
4-ARM DIPLOG	1550.0 - 2110.0			
CIRCUMFERENTIAL	1553.0 - 2111.0			
COMPUTED DIPLOG	1550.0 - 2110.0			
CORGUN	286.0 - 2098.0			
DIGITAL ARRAY	1553.0 - 2111.0			
DUAL INDUCTION	252.0 - 2120.0			
DUAL LATEROLOG MICRO	1553.0 - 2115.0			
FORMATION EVALUATION	1150.0 - 2120.0			
FORMATION MULTI TEST	1651.0 - 2105.0			

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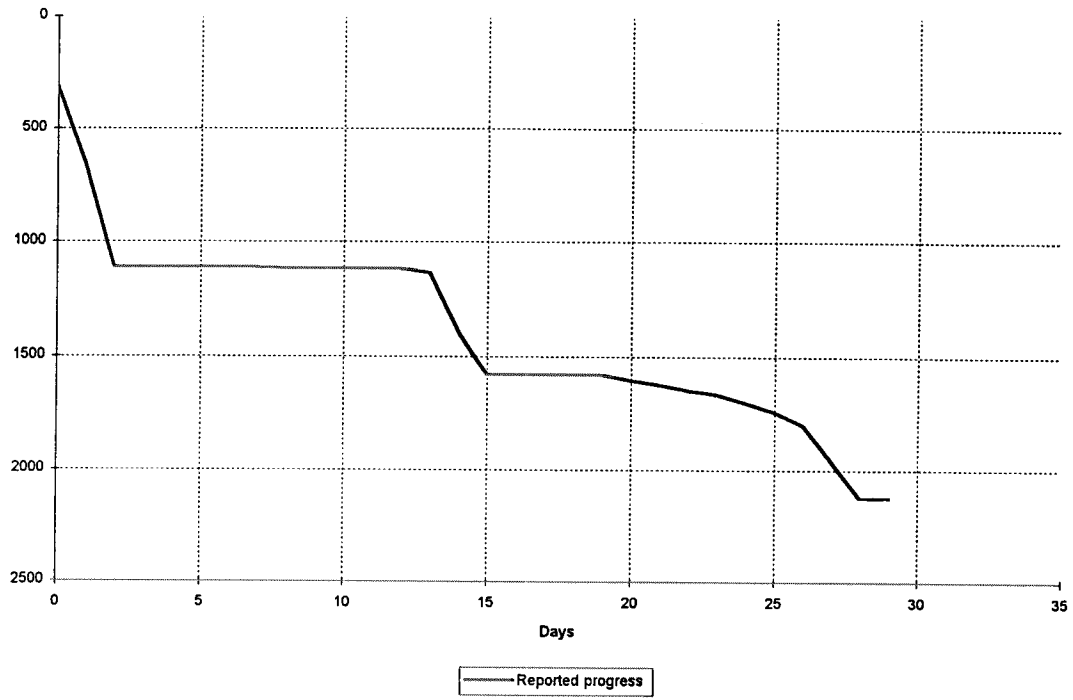
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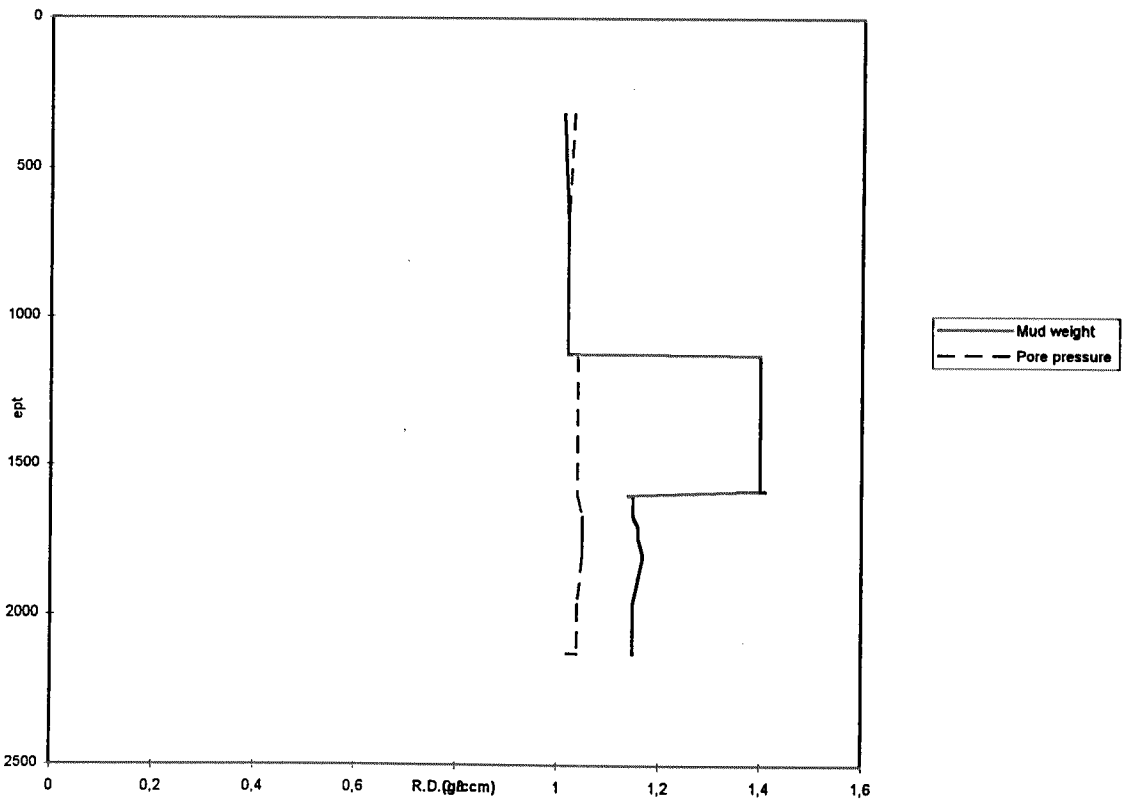
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INTERVAL VELOCITY				
MWD LOG	252.0 - 1600.0			
SBT CEMENT BOND LOG	1171.0 - 1526.0			
SEGMENTED BOND TOOL	1419.0 - 2086.0			
SPECTRALOG CALIPER	1553.0 - 2120.0			
SUMMED DATA				
SYNTHETIC SEISMOGRAM				
VELOCITY LOG				
VSP				
Z-DENSILOG COMPENSAT	1553.0 - 2120.0			
Z-DENSILOG NEUTRON	252.0 - 1582.0			

Depth v.s. time plot for well: 6407/9-8



Composite plot for well: 6407/9-8



Main operations for well: 6407/9-8**Main operation: DRILLING**

Sub operation:	Minutes:	Hours:	% of total:
BOP ACTIVITIES	3090	51,5	8,93
BOP/WELLHEAD EQ	1730	28,8	5,00
CASING	8970	149,5	25,91
CIRC/COND	1755	29,3	5,07
DRILL	8250	137,5	23,83
HOLE OPEN	3130	52,2	9,04
OTHER	150	2,5	0,43
REAM	150	2,5	0,43
SURVEY	1440	24,0	4,16
TRIP	5955	99,3	17,20
Total	34620	577,0	100,00

Main operation: FORMATION EVAL

Sub operation:	Minutes:	Hours:	% of total:
CIRC SAMPLES	90	1,5	0,50
CIRC/COND	700	11,7	3,87
CORE	3760	62,7	20,78
LOG	8040	134,0	44,44
OTHER	170	2,8	0,94
TRIP	5330	88,8	29,46
Total	18090	301,5	100,00

Main operation: INTERRUPTION

Sub operation:	Minutes:	Hours:	% of total:
FISH	1410	23,5	43,93
MAINTAIN/REP	1800	30,0	56,07
Total	3210	53,5	100,00

Main operation: MOVING

Sub operation:	Minutes:	Hours:	% of total:
ANCHOR	2490	41,5	100,00
Total	2490	41,5	100,00

Main operation: PLUG & ABANDON

Sub operation:	Minutes:	Hours:	% of total:
CEMENT PLUG	120	2,0	5,80
EQUIP RECOVERY	750	12,5	36,23
MECHANICAL PLUG	240	4,0	11,59
OTHER	90	1,5	4,35
TRIP	480	8,0	23,19
WAIT	390	6,5	18,84
Total	2070	34,5	100,00

Total time used: Hours

WELL HISTORY 6407/9-8

GENERAL:

The principal objective of well 6407/9-8 was to test the hydrocarbon potential of the Late Jurassic Rogn Formation in a dip closure trap, to test the potential for gas storage in the middle Jurassic Garn Formation. The well was also drilled to acquire additional stratigraphic information on the reservoir development of the Middle and Early Jurassic Ile and Tilje Formation.

OPERATION:

Well 6407/9-8 was spudded on the 14th August 1992 by the semi submersible rig "West Vanguard" and was completed 23rd September 1992, at a total depth of 2126 m RKB in the early Jurassic Tilje Formation. Only weak indication of hydrocarbon in Upper Jurassic siltstone and claystones were found. No Rogn Formation was encountered in a poorly developed Upper Jurassic section. A well-developed Garn Formation in a sand facies was encountered, with high porosity and permeability. The well was terminated in Tilje Formation after penetration of Ile Formation sandstone.

The well was subsequently suspended as a possible future gas injector.

TESTING:

No DST tests were performed in this well.

Geological Tops.

Well: 6407/9-8.

	Depth m (RKB).
Nordland Group	252.0
Kai Fm	350.0
Naust Fm	438.0
Hordaland Group	758.0
Rogaland Group	1296.0
Tare Fm	1296.0
Tang Fm	1335.0
Cromer Knoll Group	1530.0
Viking Group	1605.5
Spekk Fm	1605.5
Melke Fm	1699.0
Fangst Group	1730.0
Garn Fm	1730.0
Not Fm	1860.0
Ile Fm	1900.0
Båt Group	2005.5
Ror Fm	2005.5
Tilje Fm	2052.5
T.D.	2126.0