

Well no : 6507/12-03

Operator : SAGA

Coordinates : 65 03 35.82 N
07 49 6.40 E

UTM coord. : 7215836
444406

Licence no : 59

Permit no : 481

Rig : TREASURE SAGA

Rig type : SEMI-SUB.

Contractor : WILHELMSSEN OFFSHORE SERVICES

Bottom hole temperature : 69 deg.C

Elev. KB : 26 M

Spud. date : 85.08.16

Water depth : 240 M

Compl. date : 85.09.13

Total depth : 2600 M

Spud. class : WILDCAT

Form. at TD : JURASSIC

Compl. class : P&A. DRY HOLE

Prod. form :

Seisloca : SG 8258 - 103 SP. 1014

LICENSEES

5.000000 DEMINEX (NORGE) A/S
20.000000 ELF AQUITAINE NORGE A/S
5.000000 NORSK HYDRO PRODUKSJON A.S
10.000000 SAGA PETROLEUM A.S.
50.000000 DEN NORSKE STATS OLJESELSKAP A.S
10.000000 VOLVO PETROLEUM NORGE 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	375.0	36	380.0	
SURF.COND.	20	904.0	26	920.0	1.41
INTERM.	13 3/8	1949.0	17 1/2	1965.0	1.82
OPEN HOLE			12 1/4	2600.0	

CONVENTIONAL CORES

Core no.	Intervals cored meters	Recovery		Series
		M	%	
1	1981.0 - 1988.5	7.5	100.0	MIDDLE JURASSIC
2	1989.5 - 2016.0	0.0	0.0	M/L JURASSIC
3	2503.5 - 2519.9	16.4	100.0	LOWER JURASSIC

MUD PROPERTIES

Depth below KB meter	Mud weighth g/cm ³	Plastic viscosity mPa.s	Mud type
263.000	1.03		WATER BASED
633.000	1.15	9.0	WATER BASED
920.000	1.17	8.0	WATER BASED
1028.000	1.15	11.0	WATER BASED
1635.000	1.25	13.0	WATER BASED
1965.000	1.30	15.0	WATER BASED
2120.000	1.23	16.0	WATER BASED
2200.000	1.20	17.0	WATER BASED

DRILL STEM TEST

NO DST'S WERE PERFORMED IN THIS WELL

DRILL BIT CUTTINGS AND WET SAMPLES

SAMPLE TYPE	INTERVAL BELOW KB	NUMBER OF SAMPLES
Cutting	400 - 2598	380
Wet Samples	390 - 2600	190

SHALLOW GAS

Interval
below KB

REMARKS

475-800 M GAS LEAKAGE BETWEEN 20" AND 30" CASING

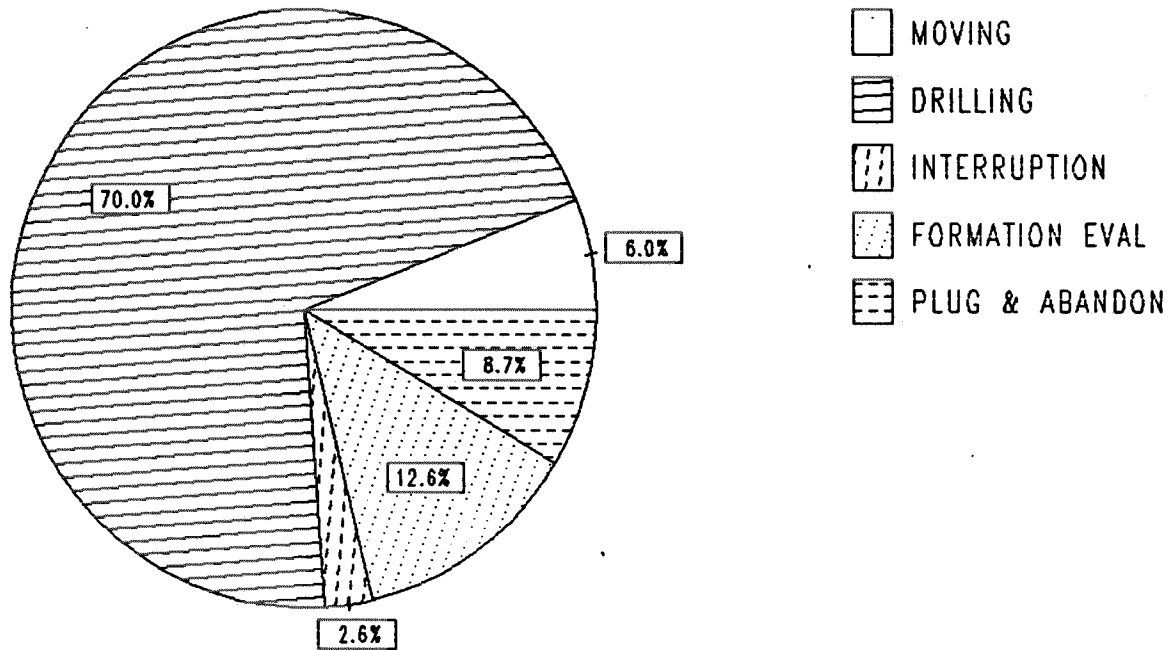
AVAILABLE LOGS

LOG TYPE	INTERVALS	1/200	1/500
*DIFL LS BHC AC CAL GR	904 - 1963	X <==>	X
*DIFL LS BHC AC CAL	1923 - 2597	X <==>	X
*CDL	904 - 1944	X <==>	X
*CDL CNL	1935 - 2596	X <==>	X
CDM	1948 - 2597	X	
CDM AP	1948 - 2597	X	X
*TEMPERATURE	266 - 886	X <==>	X
FMT	1973 - 2483		X
FMT H.P. CRYSTAL GAUGE	1973 - 2483		X
TEMPERATURE DATA	266 - 2600		1:5000
PRESSURE EVALUATION	266 - 2600		1:5000
DRILLING DATA PRESSURE	266 - 2600		1:5000
WIRELINE DATA PRESSURE	266 - 2600		1:5000
*CBL VDL AC	700 - 1948	X <==>	X
UD	266 - 2600		X
VELOCITY	904 - 2587		1:1000 X
(+ Airgun Well Velocity Survey and Calibr. data,			1 stk)
(+ Synthetic Seismogram, 10 cm/s,			4 stk)
(+ Synthetic Seismogram, Marine, 10 cm/s,			1 stk)
(+ V.S.P., 10 cm/s,			9 stk)
(+ Two Way Travel Time, 5 cm/s,			1 stk)
(+ Two Way Travel Time, 10 cm/s,			1 stk)

*-BOTH SCALES ON SAME LOG

DAILY DRILLING REPORT SYSTEM

Main operation : 6507/12-03



Total : 720 HRS

Main operation	Minutes	Hours	% of total
MOVING	2610	43.50	6.04
DRILLING	30240	504.00	70.00
INTERRUPTION	1140	19.00	2.64
FORMATION EVAL	5460	91.00	12.64
PLUG & ABANDON	3750	62.50	8.68

MAIN OPERATIONS WELL : 6507/12-03

MAIN OPERATION: DRILLING

Sub operations	Min	Hrs	% of total
BOP/WELLHEAD EQ	1470	24.50	4.86
TRIP	4290	71.50	14.19
DRILL	12300	205.00	40.67
CIRC/COND	2340	39.00	7.74
CASING	6600	110.00	21.83
WAIT	960	16.00	3.17
BOP ACTIVITIES	1170	19.50	3.87
REAM	270	4.50	0.89
PRESS DETECTION	510	8.50	1.69
OTHER	300	5.00	0.99
SURVEY	30	0.50	0.10
TOTAL	30240	504.00	

MAIN OPERATION: MOVING

Sub operations	Min	Hrs	% of total
ANCHOR	2310	38.50	88.51
TRANSIT	300	5.00	11.49
TOTAL	2610	43.50	

MAIN OPERATION: FORMATION EVAL

Sub operations	Min	Hrs	% of total
LOG	2580	43.00	47.25
TRIP	1360	22.67	24.91
CIRC/COND	330	5.50	6.04
CORE	1020	17.00	18.68
OTHER	170	2.83	3.11
TOTAL	5460	91.00	

MAIN OPERATION: INTERRUPTION

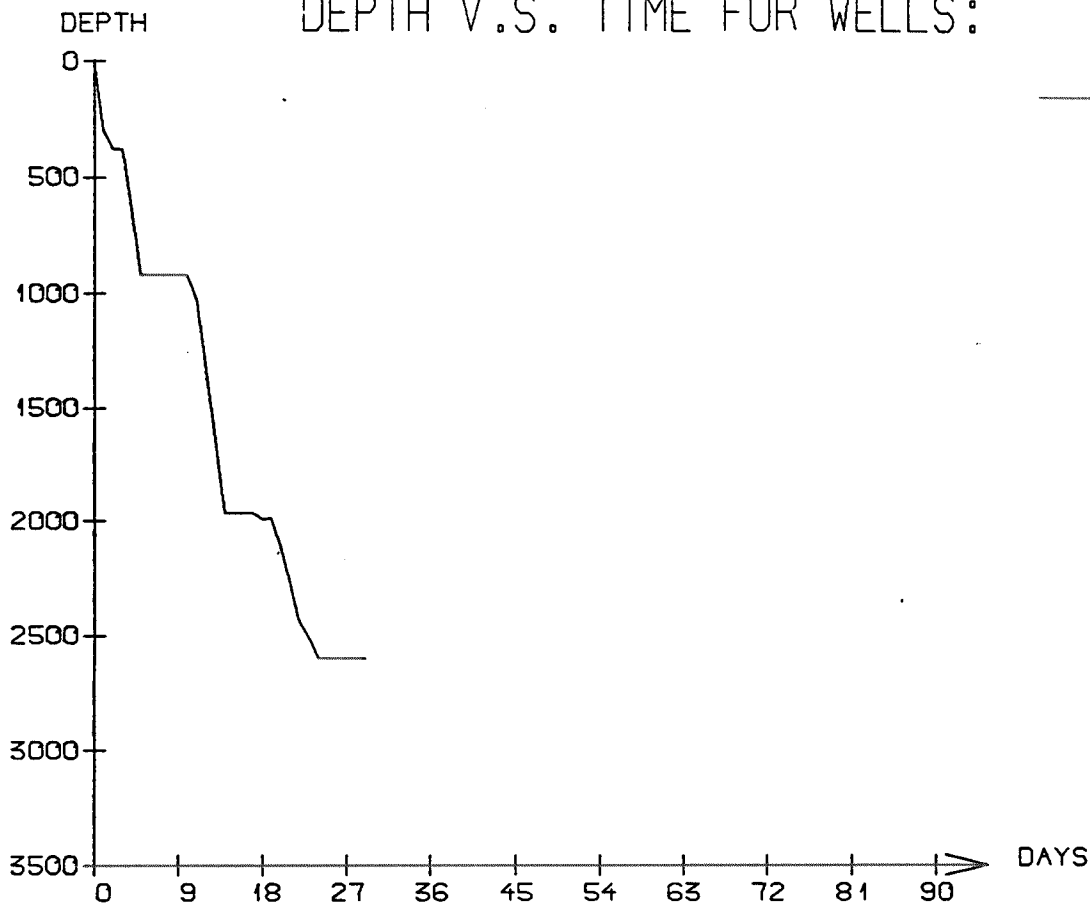
Sub operations	Min	Hrs	% of total
MAINTAIN/REP	510	8.50	44.74
OTHER	630	10.50	55.26
TOTAL	1140	19.00	

MAIN OPERATION: PLUG & ABADNON

Sub operations	Min	Hrs	% of total
TRIP	1140	19.00	30.40
CIRC/COND	270	4.50	7.20
CEMENT PLUG	270	4.50	7.20
MECHANICAL PLUG	390	6.50	10.40
PERFORATE	450	7.50	12.00
CUT	330	5.50	8.80
EQUIP RECOVERY	510	8.50	13.60
OTHER	120	2.00	3.20
SQUEEZE	270	4.50	7.20
TOTAL	3750	62.50	

DEPTH V.S. TIME FOR WELLS:

— 6507/12- 03



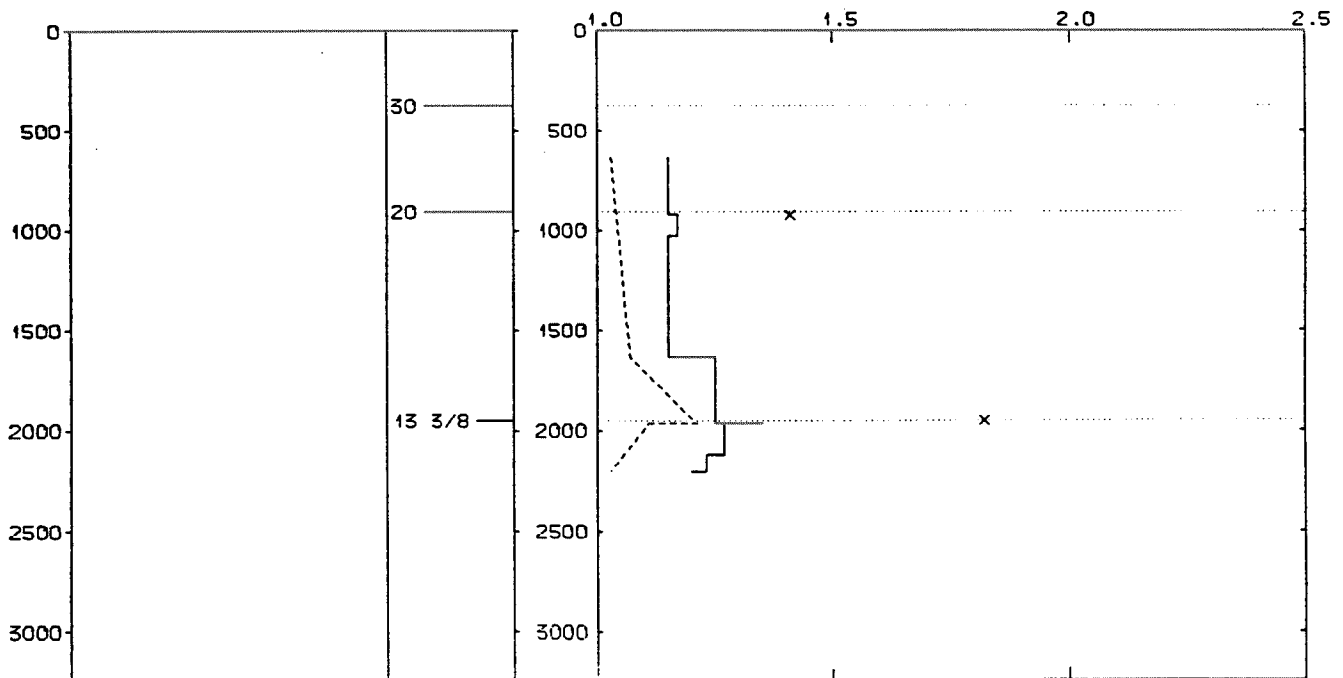
WELL: 650712 03 PRESSURE COMPOSITE PLOT

DEPTH
(RKB)
(METERS)

CASING

PRESSURE GRADIENTS
(g/ccm)

----- MUDWEIGHT (REPORT)
 - - - - - PORE PRESSURE (REPORT)
 x LEAK-OFF (REPORT)



Well History 6507/12-3.

General:

Wildcat well 6507/12-3 was drilled near the Midgard field at Haltenbanken. The main objective was to test the W-1 prospect located on the western margin of the Trøndelag Platform, south in the block.

Primary target was the Middle Jurassic Sst of the Toma Formation. A secondary target was the Lower Jurassic Sst of the Aldra Formation, and to penetrate the coal horizon in the Hitra Formation. Proposed T.D. at 2700 m.

Operations:

Well 6507/12-3 was spudded by Wilh. Wilhelmsen semi-submersibel rig Treasure Saga. A gasflow occurred between the 20"- and 30" casing. The casing was perforated at 705 m and cement successfully squeezed. Gasflow continued to be a problem and the 13 3/8" casing was also perforated and cement squeeze was performed in both the lower and upper perforations.

The Tomma Fm was encountered at 1974 m RKB, 20 m above the prognosed depth. MWD displayed fall in resistivity and the formation is considered dry.

A core was cut in the interval 1981- 1989.5 m. RKB. Sst without shows. Another core was cut between 1989.5- 2016 m, and a third for sourcerock studies in the interval 2503.5- 2521.5 m in the Hitra Formation. The well was plugged and abandoned at T.D. of 2600 m RKB.

Testing:

No production tests were performed.

GEOLOGICAL TOPS

WELL: 6507-12-3

	<i>Depth m (RKB)</i>
<i>Nordland Group</i>	266
<i>Naust Fm</i>	266
<i>Kai Fm</i>	1311
<i>Rogaland Group</i>	1775
<i>Tare Fm.</i>	1775
<i>Tang Fm.</i>	1823
<i>Shetland Group</i>	1862
<i>Viking Group</i>	1937
<i>Spekk Fm.</i>	1937
<i>Melke Fm.</i>	1939
<i>Fangst Group</i>	1972
<i>Garn Fm.</i>	1972
<i>Båt Group</i>	2098
<i>Ror Fm.</i>	2098
<i>Tilje Fm.</i>	2186
<i>Åre Fm.</i>	2351
<i>T.D.</i>	2600