

Well no : 6507/06-01

Operator : SAGA

Coordinates : 65 36 37.59 N
07 43 43.04 EUTM coord. : 7277265 N
441417 E

Licence no : 123

Permit no : 517

Rig : TREASURE SAGA

Rig type : SEMI-SUB.

Contractor : WILHELMOSEN OFFSHORE SERVICES

Bottom hole temperature : deg.C Elev. KB : 26 M

Spud. date : 86.06.15 Water depth : 419 M

Compl. date : 86.08.23 Total depth : 4040 M

Spud. class : WILDCAT Form. at TD : TRIASSIC

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

Seisloca : NRGR 84 - 429 SP. 2235

LICENSEES

15.000000 BP PETROLEUM DEV. OF NORWAY A.S
10.000000 ELF AQUITAINE NORGE A/S
15.000000 SAGA PETROLEUM A.S.
50.000000 DEN NORSKE STATS OLJESELSKAP A.S
10.000000 TOTAL NORGE A.S

CASING AND LEAK-OFF TESTS

Type	Casing diam.	Depth below KB	Hole diam.	Hole depth below KB	Lot mud eqv. g/cm ³
CONDUCTOR	30	616.0	36	622.0	1.26
SURF.COND.	20	959.0	26	975.0	1.61
INTERM.	13 3/8	2214.0	17 1/2	2224.0	1.73
INTERM.	9 5/8	3150.0	12 1/4	3165.0	2.04

CONVENTIONAL CORES

Core no.	Intervals cored meters	Recovery		Series
		M	%	
1	1023.0 - 1040.8	17.8	100.0	LOWER JURASSIC
2	1045.0 - 1056.0	11.0	100.0	
3	3041.0 - 3045.2	4.2	100.0	TRIASSIC
4	3995.0 - 4013.5	18.3	98.9	LOWER TRIASSIC

MUD PROPERTIES

Depth below KB meter	Mud weight g/cm ³	Viscosity	Mud type
616.000	1.03	0.0	WATER BASED
627.000	1.10	24.0	WATER BASED
975.000	1.12	7.0	WATER BASED
975.000	1.15	8.0	WATER BASED
975.000	1.20	8.0	WATER BASED
975.000	1.30	17.0	WATER BASED
1018.000	1.15	16.0	WATER BASED

1018.000	1.20	18.0	WATER BASED
1018.000	1.32	17.0	WATER BASED
1018.000	1.39	20.0	WATER BASED
1018.000	1.38	21.0	WATER BASED
1026.000	1.50	18.0	WATER BASED
1095.000	1.20	0.0	WATER BASED
1716.000	1.39	20.0	WATER BASED
1745.000	1.38	22.0	WATER BASED
1767.000	1.39	20.0	WATER BASED
1844.000	1.40	23.0	WATER BASED
1980.000	1.37	20.0	WATER BASED
2214.000	1.20	21.0	WATER BASED
2400.000	1.38	23.0	WATER BASED
2946.000	1.35	20.0	WATER BASED
3000.000	1.20	0.0	WATER BASED
3120.000	1.36	18.0	WATER BASED
3150.000	1.20	16.0	WATER BASED
3165.000	1.36	18.0	WATER BASED
3165.000	1.35	17.0	WATER BASED
3165.000	1.32	14.0	WATER BASED
3611.000	1.20	16.0	WATER BASED
3621.000	1.23	14.0	WATER BASED
4040.000	1.20	18.0	WATER BASED

DRILL BIT CUTTINGS AND WET SAMPLES

SAMPLE TYPE	INTERVAL BELOW KB	NUMBER OF SAMPLES
Cutting	630-3990	710
Wet Samples	630-4038	710

SHALLOW GAS

Interval below KB	REMARKS

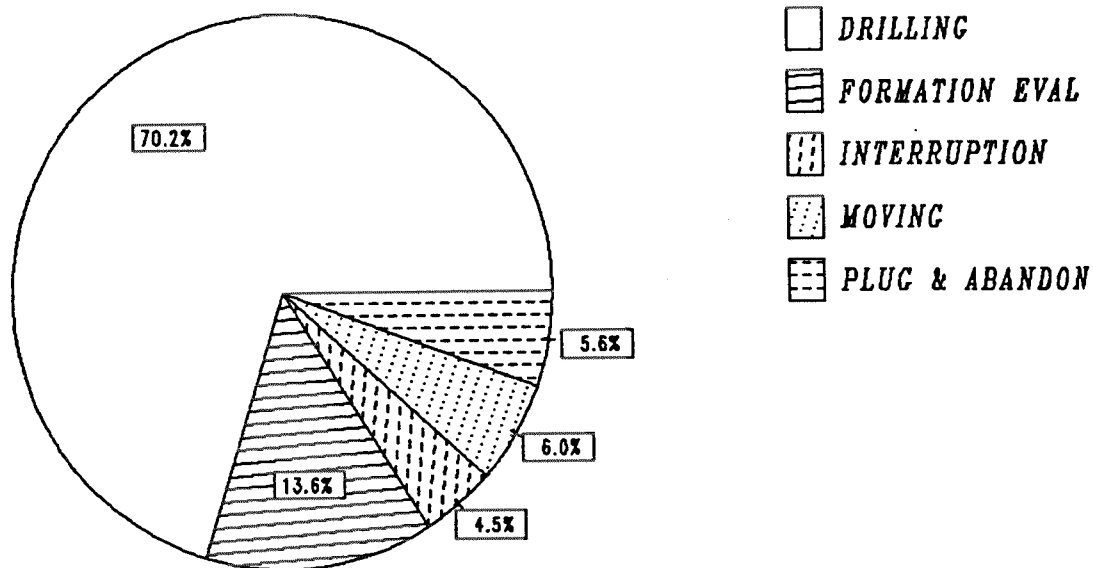
AVAILABLE LOGS

LOG TYPE	INTERVALS	1/200	1/500	Div.
DIFL LSBHC AC GR CA	956.800 - 1404.000	X	X	
DIFL LSBHC AC GR CA	617.800 - 974.300	X	X	
LS BHC AC CDL	1350.000 - 2220.000	X	X	
LS BHC AC CAL	2212.000 - 3158.000	X	X	
DIFL LS BHC AC CAL	3146.000 - 4040.000	X	X	
CDL	617.800 - 956.200	X	X	
CDL CNL	956.000 - 1406.200	X	X	
CDL	1350.800 - 2220.000	X	X	
CDL CNL	2212.000 - 3161.900	X	X	
CDL CNL	3146.500 - 4040.800	X	X	
DLL	1350.000 - 2222.500	X	X	
DLL	2212.000 - 3162.000	X	X	
SHDT	956.000 - 1397.000	X		
CDM AP	956.800 - 1397.000	X	X	

SHDT	1350.000 - 2221.000	X	
CDM AP	1350.000 - 2221.000	X	X
SHDT	2212.000 - 3161.000	X	
CDM AP/4-ARM	2212.000 - 3161.000	X	X
SHDT	3146.000 - 4040.000	X	
CDM AP/4-ARM	3146.500 - 4040.500	X	X
FMT	1018.000 - 1038.000	X	X
FMT /HP CRYSTAL	1018.000 - 1038.500	X	X
FMT	1018.000 - 1377.000	X	X
FMT /HP CRYSTAL	1018.500 - 1377.000	X	X
FMT /HP CRYSTAL	2268.000 - 3037.000		X
ACBL VDL	605.000 - 2212.000	X	X
ACBL VDL	2090.000 - 3146.500	X	X
DRILLING DATA	445.000 - 4040.000	1:5000	
TEMPERATURE DATA	445.000 - 4040.000	1:5000	
MUD	445.000 - 4040.000		X
VELOCITY LOG	650.000 - 4024.000	1:1000X	
(Velocity, gr density sonic ,650-4024m		2 stk.)	
(Velocity,drift curve, 674-4024m		1 stk.)	
(Two-way travel time, 5 & 10 cm/s		2 stk.)	
(VSP,zero offset, plot 1-8		8 stk.)	
(Synthetic seismogram, 10cm/s		8 stk.)	

DAILY DRILLING REPORT SYSTEM

Main operations for well : 6507/06 -01



Total : 1752.00 hours

Main operation	Minutes	Hours	% of total
DRILLING	73830	1230.50	70.23
FORMATION EVAL	14310	238.50	13.61
INTERRUPTION	4770	79.50	4.54
MOVING	6300	105.00	5.99
PLUG & ABANDON	5910	98.50	5.62

MAIN OPERATIONS FOR WELL : 6507 / 06 - 01

MAIN OPERATION : DRILLING

Sub operations	Minutes	Hrs	% of total
BOP ACTIVITIES	1320	22.00	1.79
BOP/WELLHEAD EQ	6060	101.00	8.21
CASING	8790	146.50	11.91
CIRC/COND	3000	50.00	4.06
DRILL	38310	638.50	51.89
HOLE OPEN	720	12.00	0.98
OTHER	600	10.00	0.81
PRESS DETECTION	120	2.00	0.16
REAM	270	4.50	0.37
SURVEY	1080	18.00	1.46
TRIP	12570	209.50	17.03
UNDERREAM	990	16.50	1.34
Total	73830	1230.50	100.00

MAIN OPERATION : FORMATION EVAL

Sub operations	Minutes	Hrs	% of total
CIRC/COND	780	13.00	5.45
CORE	1740	29.00	12.16
LOG	8880	148.00	62.05
OTHER	240	4.00	1.68
TRIP	2670	44.50	18.66
Total	14310	238.50	100.00

MAIN OPERATION : INTERRUPTION

Sub operations	Minutes	Hrs	% of total
FISH	1290	21.50	27.04
MAINTAIN/REP	3480	58.00	72.96
Total	4770	79.50	100.00

MAIN OPERATION : MOVING

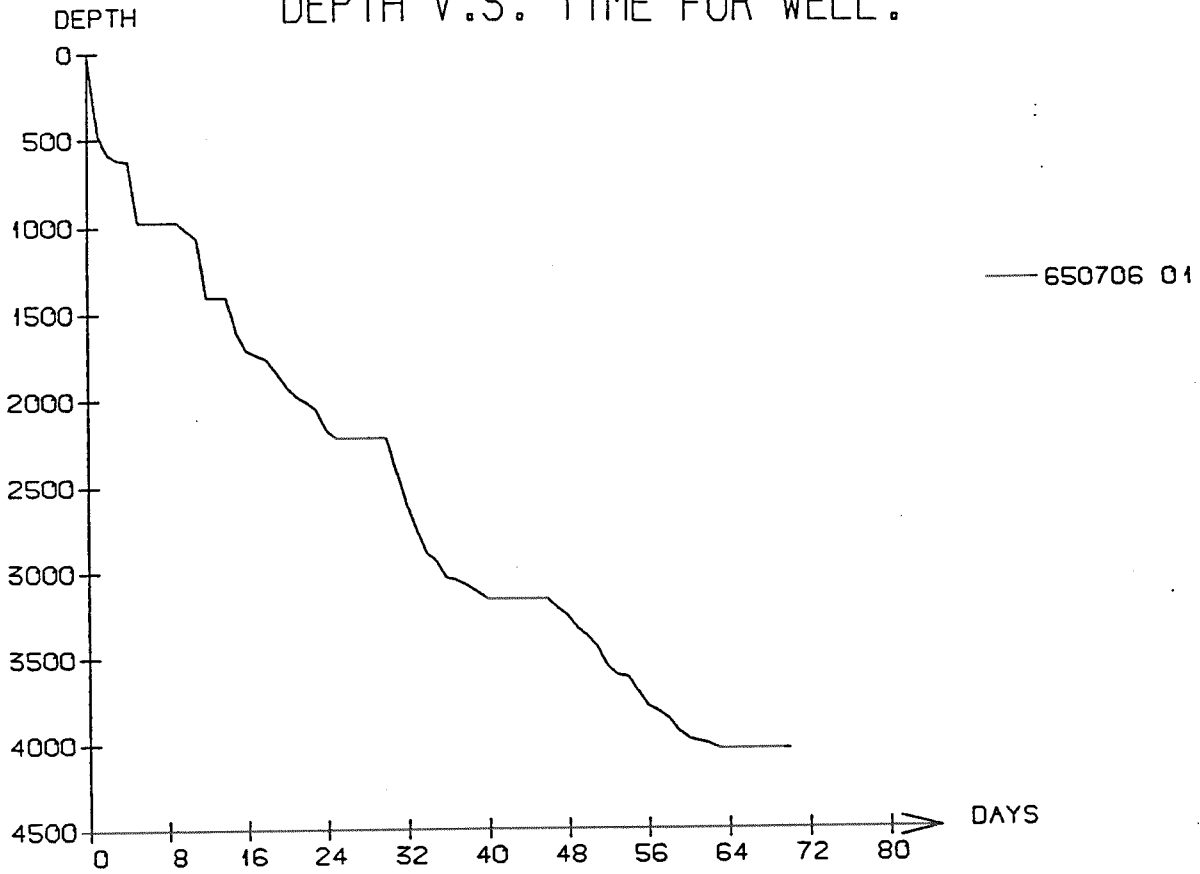
Sub operations	Minutes	Hrs	% of total
ANCHOR	3060	51.00	48.57
TRANSIT	3240	54.00	51.43
Total	6300	105.00	100.00

MAIN OPERATION : PLUG & ABANDON

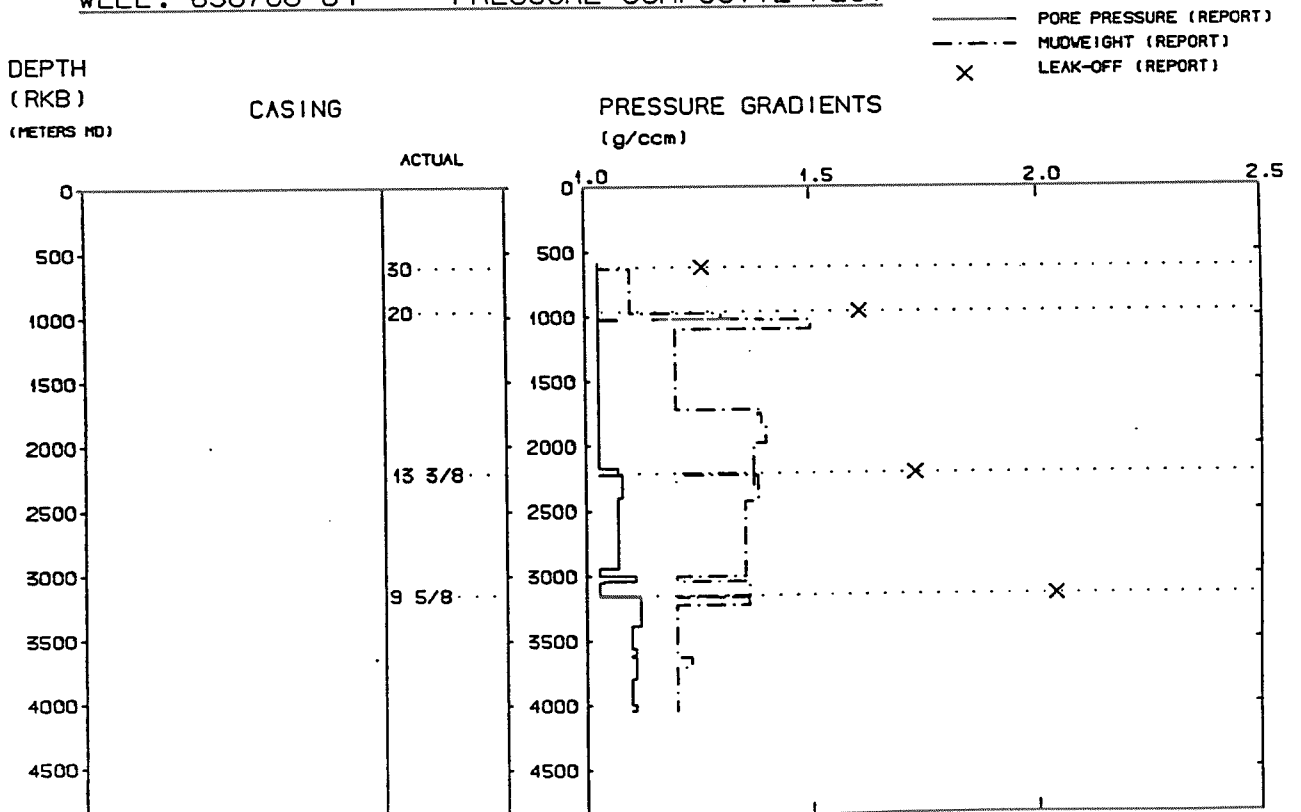
Sub operations	Minutes	Hrs	% of total
CEMENT PLUG	750	12.50	12.69
CIRC/COND	300	5.00	5.08
CUT	330	5.50	5.58
EQUIP RECOVERY	1260	21.00	21.32
MECHANICAL PLUG	270	4.50	4.57
OTHER	270	4.50	4.57
PERFORATE	360	6.00	6.09
SQUEEZE	120	2.00	2.03
TRIP	2040	34.00	34.52
WAIT	210	3.50	3.55
Total	5910	98.50	100.00

Total time used 1752.00 hrs

DEPTH V.S. TIME FOR WELL:



WELL: 650706 01 PRESSURE COMPOSITE PLOT



Well History 6507/6-1

GENERAL:

Well 6507/6-1 was drilled close to the highest point of the main structure in the block. The prospect is defined at the Late Kimmerian Unconformity along the crest of the NNE-SSW striking Nordland Ridge. The main objective of the well was to test the hydrocarbon potential and reservoir quality in the main structure. In addition the well was expected to obtain stratigraphic information of a complete Triassic sequence.

The prognosed depth was 4030 m RKB.

OPERATIONS:

Wildcat well 6507/6-1 was spudded 15 June 1986 by Wilh. Wilhelmsen Offshore Services semi-submersible rig Treasure Saga and completed 23 August 1986 at a depth of 4040 m in Triassic rocks. Drilling proceeded without significant problems.

2 cores were cut in the interval 1023 - 1056 m in the Åre Fm. and 2 cores were cut further down in the intervals 3041 - 3045.2 and 3995 - 4013.2 m. The top of the reservoir (Åre Fm.) came in at 1018 m. It contained 7 m of methane bearing sandstone. The Triassic grey beds came in at 1376 m. The gas water contact was estimated at 1030 m RKB.

The well was plugged and abandoned as a dry hole.

TESTING:

No DST tests were performed in this well.

GEOLOGICAL TOPS

WELL: 6507/6-1

Depth m (RKB)

<i>Nordland Group</i>	445.0
<i>Naust Fm.</i>	445.0
<i>Båt Group</i>	1013.0
<i>Åre Fm.</i>	1013.0
<i>Triassic Group</i>	1306.5
<i>Grey beds</i>	1306.5
<i>Red beds</i>	1425.0
Unit "A"	1754.0
Unit "B"	2020.0
Unit "C"	2768.0
Unit "D"	3063.0
Unit "E"	3429.0
<i>T.D.</i>	4040.0