

Well no : 6507/ 7-03

Operator : CONOCO

Coordinates : 65 19 01.31 N
07 17 44.79 E

UTM coord. : 7245042
420591

Licence no : 95

Permit no : 475

Rig : NORTRYM

Rig type : SEMI-SUB.

Contractor : GOLAR-NOR OFFSHORE A/S

Bottom hole temperature : 77.8 deg.C

Elev. KB : 25 M

Spud. date : 85.07.29

Water depth : 346 M

Compl. date : 85.09.18

Total depth : 2850 M

Spud. class : APPRAISAL

Form. at TD : JURASSIC

Compl. class : P&A. OIL/GAS DISC.

Prod. form : JURASSIC

Seisloca : BP 83 - 307 SP. 870

LICENSEES

10.000000 ARCO NORGE A/S
30.000000 CONOCO NORWAY INC.
50.000000 DEN NORSKE STATS OLJESELSKAP A.S
10.000000 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	469.0	36	469.0	
SURF.COND.	20	1024.0	26	1030.0	1.49
INTERM.	13 3/8	2291.0	17 1/2	2307.0	1.75
INTERM.	9 5/8	2832.0	12 1/4	2850.0	

CONVENTIONAL CORES

Core no.	Intervals cored meters	Recovery		Series
		M	%	
1	2360.0 - 2360.7	0.7	100.0	UPPER CRETACEOUS
2	2361.0 - 2376.6	15.6	100.0	UPPER CRETACEOUS/
3	2381.0 - 2386.7	5.6	98.2	MIDDLE JURASSIC
4	2386.7 - 2414.5	27.8	100.0	MIDDLE JURASSIC
5	2415.0 - 2442.5	27.5	100.0	M/L JURASSIC
6	2442.5 - 2471.0	27.5	100.0	LOWER JURASSIC
7	2500.0 - 2519.7	19.7	100.0	LOWER JURASSIC
8	2521.0 - 2541.7	20.7	100.0	LOWER JURASSIC
9	2543.5 - 2569.1	25.6	96.6	LOWER JURASSIC
10	2570.0 - 2586.5	16.5	91.7	LOWER JURASSIC
11	2587.0 - 2615.5	27.5	100.0	LOWER JURASSIC
12	2615.5 - 2643.0	27.5	100.0	LOWER JURASSIC
13	2643.0 - 2661.0	18.0	100.0	LOWER JURASSIC

MUD PROPERTIES

Depth below KB meter	Mud weight g/cm ³	Plastic viscosity mPa.s	Mud type
469.000	1.07		WATER BASED
1030.000	1.14	7.0	WATER BASED
1035.000	1.09	24.0	WATER BASED
1630.000	1.29	23.0	WATER BASED
1983.000	1.38	22.0	WATER BASED
2307.000	1.39	23.0	WATER BASED
2360.000	1.26	17.0	WATER BASED
2642.000	1.27	21.0	WATER BASED

DRILL STEM TEST

INTERVALS AND PRESSURES

Test no	interval meter	Choke size	Pressure (PSI)		
			WHP	BTHP	FFP
1.0	2413.000 - 2430.000	20.6	870.0	3625.0	725.0
2.0	2385.000 - 2400.000	23.8	870.0	3625.0	580.0
3.0	2368.000 - 2380.000	22.2	870.0	3625.0	725.0

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
1.0	771	87310	0.880	0.680	112
2.0	869	93031	0.880	0.690	107
3.0	823	74850	0.880	0.670	91

DRILL BIT CUTTINGS AND WET SAMPLES

SAMPLE TYPE	INTERVAL BELOW KB	NUMBER OF SAMPLES
Cutting	460 - 2850	428
Wet Samples	460 - 2846	320

SHALLOW GAS

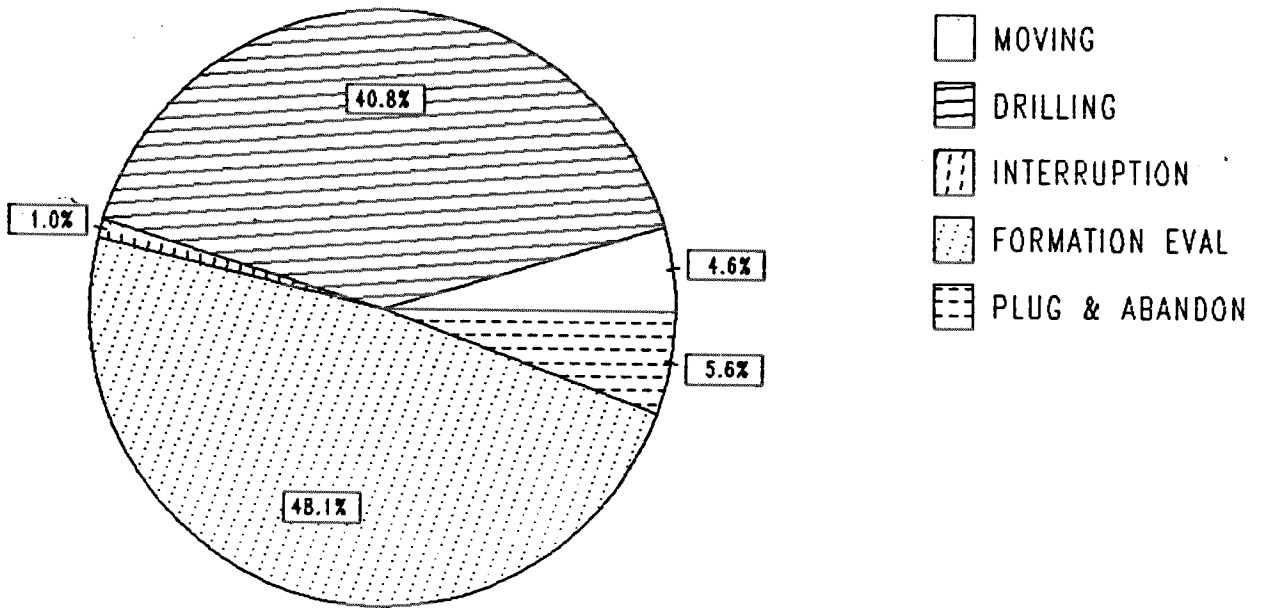
Interval below KB	REMARKS
	NONE

AVAILABLE LOGS

LOG TYPE	INTERVALS	1/200	1/500
ISF SLS MSFL GR	371 - 1028	X	
ISF SLS MSFL	1024 - 2139	X	
DIL SLS SP	2292 - 2847	X	
ISF SLS MSFL	358 - 2845		X
LDL CNL	1024 - 2140	X	X
FDC CNL	2140 - 2846	X	X
LDL CNL NGL	2292 - 2845	X	X
DLL MSFL SP	2292 - 2707	X	X
CDM AP/SHDT	2300 - 2845	X	X
CDM AP/SHDT	2491 - 2841	X	X
SHDT	2335 - 2845	X	
NGT RATIOS PLAYBACK	2292 - 2845	X	X
NGT	2292 - 2839	X	
RFT HP GAUGE	2369 - 2601		
RFT STRAIN GAUGE	2369 - 2601		
CBL VDL CCL	600 - 2280	X	
CBL VDL CCL	1500 - 2804	X	
MUD	469 - 2850		X
VELOCITY	371 - 2847	1:1000	X
(+ Airgun Well Velocity Survey and Calibr. Data,			1 stk)
(+ Synthetic Seismogram, Marine, 10 cm/s,			1 stk)
(+ Synthetic Seismogram, 10 cm/s,			2 stk)
(+ V.S.P., display 1-7, 10 cm/s,			9 stk)
(+ Two Way Travel Time, 10 cm/s,			1 stk)

DAILY DRILLING REPORT SYSTEM

Main operation : 6507/07-03



Total : 1296 HRS

Main operation	Minutes	Hours	% of total
MOVING	3540	59.00	4.55
DRILLING	31710	528.50	40.78
INTERRUPTION	780	13.00	1.00
FORMATION EVAL	37380	623.00	48.07
PLUG & ABANDON	4350	72.50	5.59

MAIN OPERATIONS WELL : 6507/07-03

MAIN OPERATION: DRILLING

Sub operations	Min	Hrs	% of total
CASING	6420	107.00	20.25
TRIP	6420	107.00	20.25
OTHER	1440	24.00	4.54
SURVEY	480	8.00	1.51
DRILL	7560	126.00	23.84
CIRC/COND	1020	17.00	3.22
HOLE OPEN	2070	34.50	6.53
BOP/WELLHEAD EQ	5790	96.50	18.26
REAM	510	8.50	1.61
TOTAL	31710	528.50	

MAIN OPERATION: MOVING

Sub operations	Min	Hrs	% of total
ANCHOR	2760	46.00	77.97
POSITION	120	2.00	3.39
TRANSIT	660	11.00	18.64
TOTAL	3540	59.00	

MAIN OPERATION: FORMATION EVAL

Sub operations	Min	Hrs	% of total
LOG	4440	74.00	11.88
TRIP	13380	223.00	35.79
RFT/FIT	570	9.50	1.52
CIRC/COND	1410	23.50	3.77
CORE	2940	49.00	7.87
OTHER	120	2.00	0.32
DST	14520	242.00	38.84
TOTAL	37380	623.00	

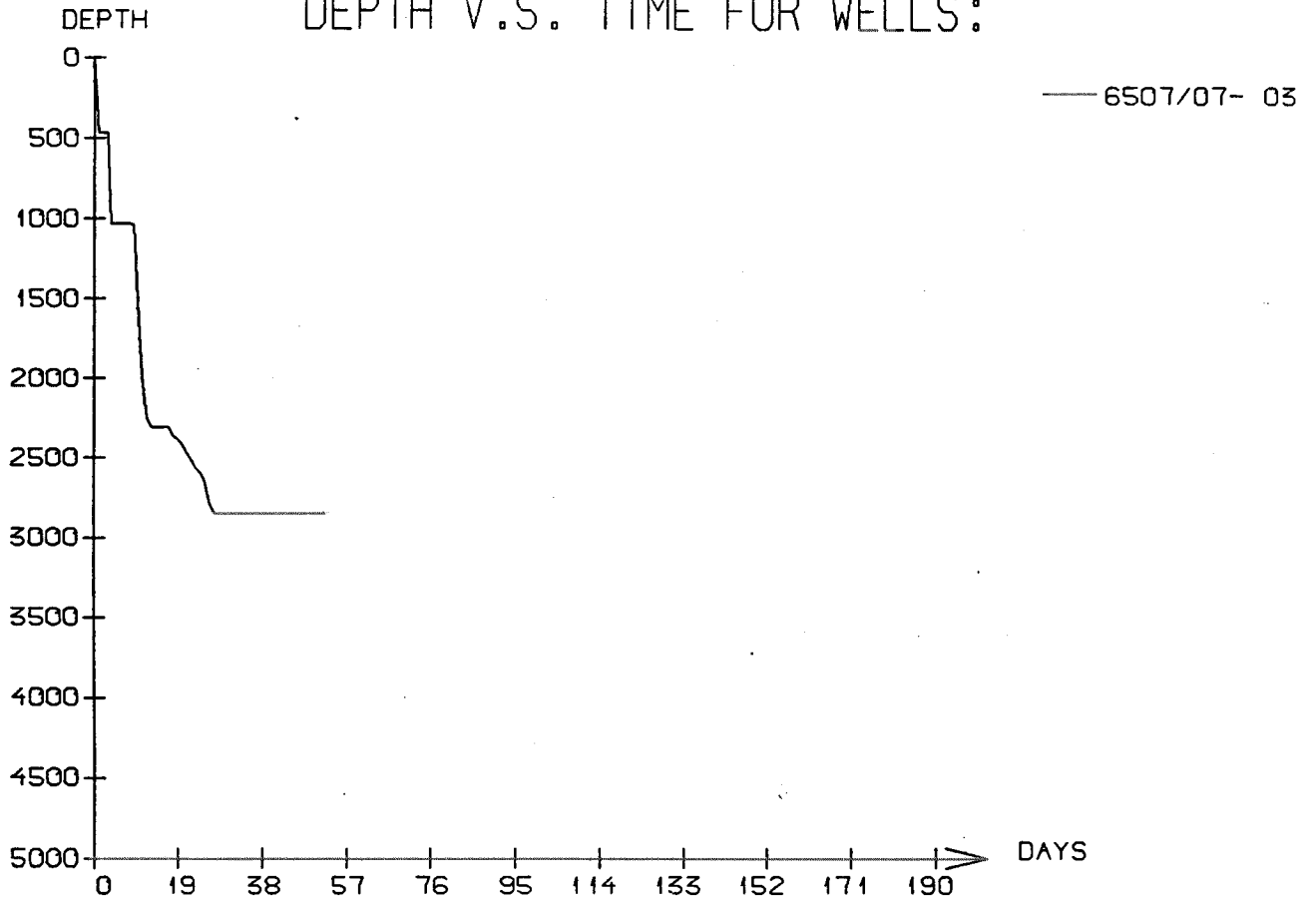
MAIN OPERATION: INTERRUPTION

Sub operations	Min	Hrs	% of total
MAINTAIN/REP	780	13.00	100.00
TOTAL	780	13.00	

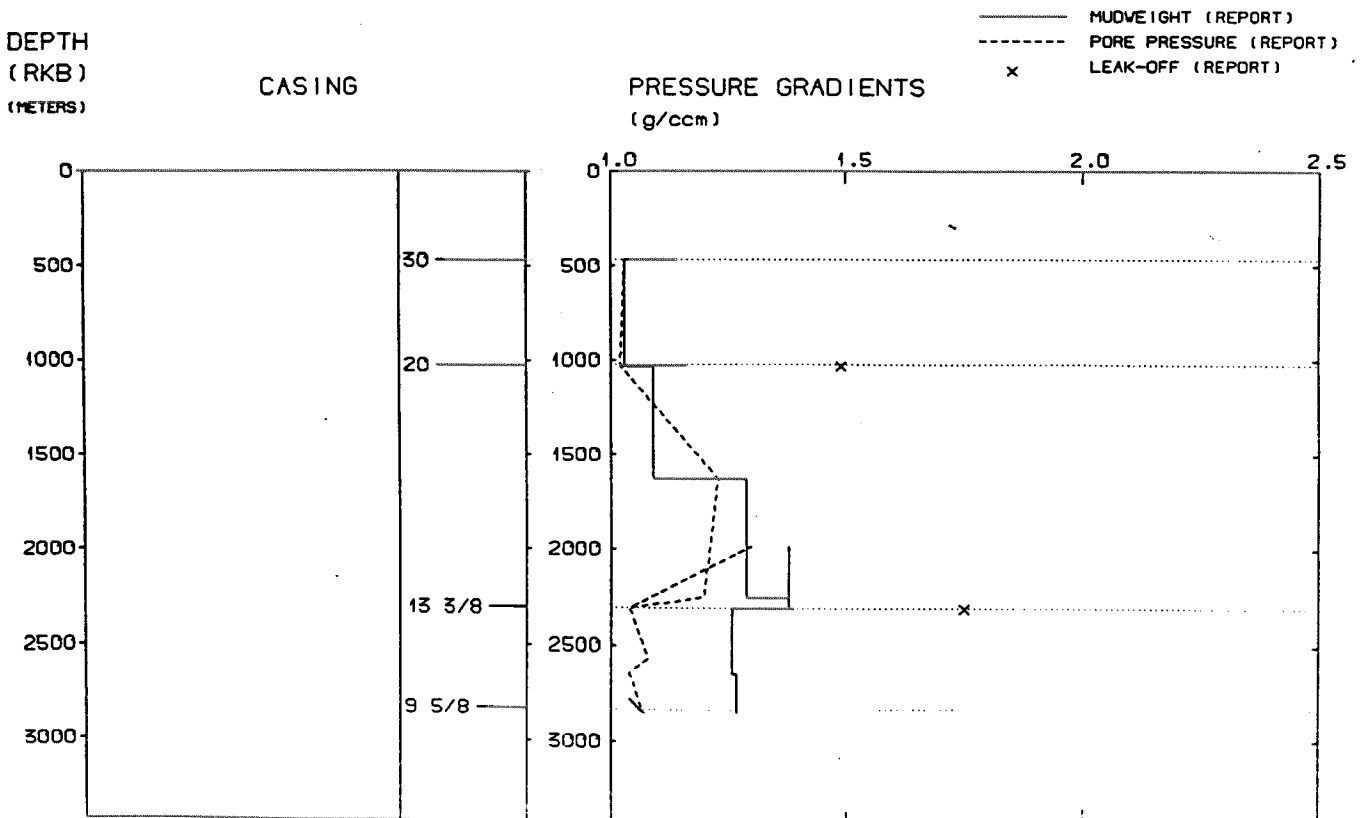
MAIN OPERATION: PLUG & ABANDON

Sub operations	Min	Hrs	% of total
MECHANICAL PLUG	330	5.50	7.59
TRIP	2040	34.00	46.90
SQUEEZE	270	4.50	6.21
PERFORATE	300	5.00	6.90
CUT	390	6.50	8.97
EQUIP RECOVERY	600	10.00	13.79
CEMENT PLUG	150	2.50	3.45
OTHER	270	4.50	6.21
TOTAL	4350	72.50	

DEPTH V.S. TIME FOR WELLS:



WELL: 650707 03 PRESSURE COMPOSITE PLOT



Well History 6507/7-3.

General:

Appraisal well 6507/7-3 was designed to establish whether there was a Middle Jurassic oil leg, and was drilled downdip from the discovery well 6507/7-2 in the intensely faulted zone at the northern part of Haltenbanken, situated at the intersection between the Nordland Ridge and the Halten Terrace. Jurassic was prognosed to be water wet, and an extensive coring program was planned to assist in determining reservoir properties.

Operations:

Well 6507/7-3 was spudded 29 July 1985 by the semi-submersibel rig Nordtrym, and completed 18 September 1985 at a T.D. of 2850 m in Jurassic.

Few problems were experienced during operations. Those occurring were predominantly related to gumbo and tigth hole conditions.

Shallow gas was prognosed at 485 m, but was not found. 13 cores were cut from 2360 to 2470, and from 2500 to 2662 with 96% recovery from the upper Cretaceous to the Lower Jurassic. Oil shows were observed in sandstones from 2368- to 2448 m. Visible shows of lighth brown oil persisted down to 2416 m. Log - and core analysis indicated good permeabilities and porosities, particularly in the upper section. From different parameters oil/water contact was estimated at 2491 m RKB.

Plugged and abandoned as an oil/gas discovery.

Testing:

3 DST tests were performed in the Middle Jurassic , oil bearing sands of the Tomma Formation. The general approach to the tests was of three major conserns.

- I Sand production.
- II Obtaining representstive fluid samples.
- III Obtaining sufficient drawdown to produce a reasonable pressure build-up in the reservoir.

GEOLOGICAL TOPS

WELL: 6507-7-3

	<i>Depth m (RKB)</i>
<i>Nordland Group</i>	371
<i>Naust Fm.</i>	371
<i>Kai Fm.</i>	1472
<i>Hordaland Group</i>	1906
<i>Brygge Fm.</i>	1906
<i>Rogaland Group</i>	1990
<i>Tare Fm.</i>	1990
<i>Tang Fm.</i>	2021
<i>Shetland Group</i>	2081
<i>Fangst Group</i>	2367.5
<i>Garn Fm.</i>	2367.5
<i>Båt Group</i>	2434
<i>Ror Fm.</i>	2434
<i>Tilje Fm.</i>	2499
<i>Åre Fm.</i>	2719.5
<i>T.D.</i>	2834.5
