

Well no : 6507/ 7-02

Operator : CONOCO

Coordinates : 65 20 12.37 N  
07 18 34.52 E

UTM coord. : 7247224  
421294

Licence no : 95

Permit no : 454

Rig : NORTRYM

Rig type : SEMI-SUB.

Contractor : GOLAR-NOR OFFSHORE A/S

Bottom hole temperature : 92.2 deg.C

Elev. KB : 25 M

Spud. date : 85.02.25

Water depth : 351 M

Compl. date : 85.06.10

Total depth : 3262 M

Spud. class : WILDCAT

Form. at TD : TRIASSIC

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

Prod. form : JURASSIC

Seisloca : BP 83 - 307 SP. 910

## 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	474.4	36	476.0	
SURF.COND.	20	1025.8	26	1030.0	1.52
INTERM.	13 3/8	2100.2	17 1/2	2110.0	1.76
INTERM.	9 5/8	2599.7	12 1/4	2610.0	1.81
OPEN HOLE			8 1/2	3262.0	

## CONVENTIONAL CORES

Core no.	Intervals cored meters		Recovery		Series
			M	%	
1	2283.5	- 2295.7	12.3	100.0	LOWER JURASSIC
2	2300.5	- 2310.7	10.2	100.0	LOWER JURASSIC
3	2316.0	- 2318.5	2.5	100.0	LOWER JURASSIC
4	2320.0	- 2325.1	5.1	100.0	LOWER JURASSIC
5	2327.0	- 2342.0	15.0	100.0	LOWER JURASSIC
6	2345.0	- 2362.0	17.0	100.0	LOWER JURASSIC
7	2363.5	- 2378.1	14.6	100.0	LOWER JURASSIC
8	2379.0	- 2392.0	13.0	100.0	LOWER JURASSIC
9	2394.0	- 2408.6	14.6	100.0	LOWER JURASSIC
10	2410.0	- 2420.1	10.1	100.0	LOWER JURASSIC
11	2422.0	- 2427.1	5.1	100.0	LOWER JURASSIC
12	2431.0	- 2435.0	4.0	100.0	LOWER JURASSIC
13	2436.0	- 2443.5	7.5	100.0	LOWER JURASSIC
14	2444.0	- 2448.2	4.2	95.0	LOWER JURASSIC

## MUD PROPERTIES

Depth below KB meter	Mud weight g/cm <sup>3</sup>	Plastic viscosity mPa.s	Mud type
426.000	1.02		WATER BASED
476.000	1.06		WATER BASED
836.000	1.10	6.0	WATER BASED
1030.000	1.14	6.0	WATER BASED
1070.000	1.08	16.0	WATER BASED
1486.000	1.34	12.0	WATER BASED
1646.000	1.39	11.0	WATER BASED
1862.000	1.43	11.0	WATER BASED
2052.000	1.45	14.0	WATER BASED
2110.000	1.48	14.0	WATER BASED
2179.000	1.54	14.0	WATER BASED
2228.000	1.56	14.0	WATER BASED
2284.000	1.58	16.0	WATER BASED
2627.000	1.50	13.0	WATER BASED
2645.000	1.48	15.0	WATER BASED
2680.000	1.44	15.0	WATER BASED
2728.000	1.42	15.0	WATER BASED
2810.000	1.39	15.0	WATER BASED

## DRILL STEM TEST

### INTERVALS AND PRESSURES

Test no	interval meter	Choke size	Pressure (PSI)		
			WHP	BTHP	FFP
1.0	2521.000 - 2529.000	6.1		3770.8	145.0
2.0	2417.000 - 2439.000	25.4	870.2	2625.8	435.1
3.0	2356.500 - 2376.000	25.4			5815.8
4.0	2330.000 - 2340.000	22.2		2625.8	580.1
5.0	2290.000 - 2310.000	19.1			1740.4
6.0	2232.000 - 2245.000	19.1			725.2
7.0	2203.000 - 2222.000	20.2			1305.3

### RECOVERY

Test no.	Oil Sm <sup>3</sup> /d	Gas M Sm <sup>3</sup> /d	Oil grav. g/cm <sup>3</sup>	Gas grav. rel. air	GOR m <sup>3</sup> /m <sup>3</sup>
1.0					
2.0	704	0.34	0.922	0.617	48
3.0	489	0.32	0.910	0.668	65
4.0	902	0.67	0.882	0.660	75
5.0	72*	7.25	0.755	0.650	10000
6.0	17*	0.45	0.751	0.650	2632
7.0	96*	8.90	0.743	0.640	9275

\* - CONDENSATE

## DRILL BIT CUTTINGS AND WET SAMPLES

SAMPLE TYPE	INTERVAL BELOW KB	NUMBER OF SAMPLES
Cutting	470 - 2312	280
Wet Samples	480 - 3262.2	720

## SHALLOW GAS

Interval below KB	REMARKS
	NONE

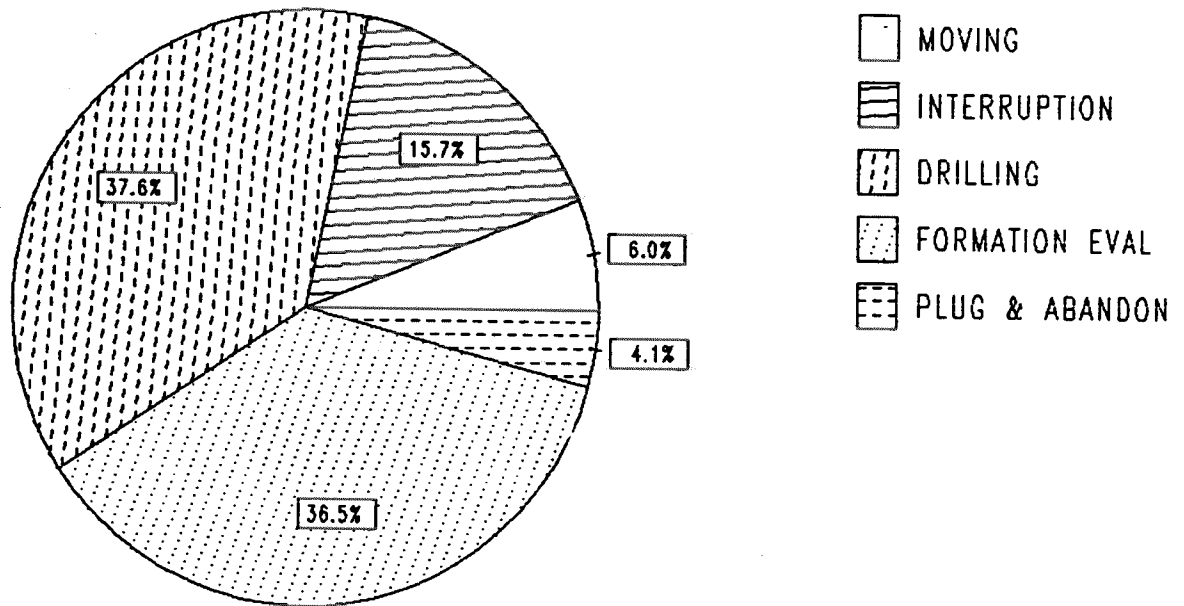
## AVAILABLE LOGS

LOG TYPE	INTERVALS	1/200	1/500
ISF BHC MSFL GR	474 - 1028	X	X
ISF SLS MSFL	1026 - 2109	X	X
ISF SLS MSFL	2101 - 2605	X	X
ISF SLS MSFL	2602 - 3250	X	X
LDL CNL	1026 - 2110	X	X
LDL CNL	2101 - 2607	X	X
LDL CNL	2602 - 3250	X	X
DLL MSFL	2101 - 2603	X	X
CDM	1026 - 2110	X	
CDM	2101 - 2607	X	
CDM	2602 - 3250	X	
CDM AP/SHDT	1027 - 2110	X	X
CDM AP/SHDT	2100 - 3243	X	X
NGT RATIOS	2101 - 2607	X	X
TEMPERATURE	999 - 2551	1:1000	
TEMPERATURE 13 3/8" CSG	500 - 2025	1:1000	
RFT	2205 - 2574		
CBL VDL CCL	1900 - 2597	X	
CBL VDL CCL	1900 - 2563	X	
MUD	474 - 2650		X
VELOCITY	474 - 3250	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., 10 cm/s, 9 stk)  
 (+ Two Way Travel Time, 10 cm/s, 1 stk)

# DAILY DRILLING REPORT SYSTEM

Main operation : 6507/07-02



Total : 2688 HRS

Main operation	Minutes	Hours	% of total
MOVING	9690	161.50	6.01
INTERRUPTION	25380	423.00	15.74
DRILLING	60600	1010.00	37.57
FORMATION EVAL	58920	982.00	36.53
PLUG & ABANDON	6690	111.50	4.15

MAIN OPERATIONS WELL : 6507/07-02

MAIN OPERATION: DRILLING

Sub operations	Min	Hrs	% of total
OTHER	4713	78.55	7.78
CASING	9900	165.00	16.34
TRIP	13167	219.45	21.73
DRILL	20790	346.50	34.31
CIRC/COND	1950	32.50	3.22
BOP/WELLHEAD EQ	7380	123.00	12.18
SURVEY	450	7.50	0.74
HOLE OPEN	1080	18.00	1.78
REAM	480	8.00	0.79
BOP ACTIVITIES	690	11.50	1.14
<b>TOTAL</b>	<b>60600</b>	<b>1010.00</b>	

MAIN OPERATION: MOVING

Sub operations	Min	Hrs	% of total
TRANSIT	7830	130.50	80.80
ANCHOR	1650	27.50	17.03
POSITION	210	3.50	2.17
<b>TOTAL</b>	<b>9690</b>	<b>161.50</b>	

MAIN OPERATION: FORMATION EVAL

Sub operations	Min	Hrs	% of total
LOG	7230	120.50	12.27
CORE	3090	51.50	5.24
TRIP	12540	209.00	21.28
OTHER	2280	38.00	3.87
CIRC/COND	1170	19.50	1.99
DST	32490	541.50	55.14
WAIT	120	2.00	0.20
<b>TOTAL</b>	<b>58920</b>	<b>982.00</b>	

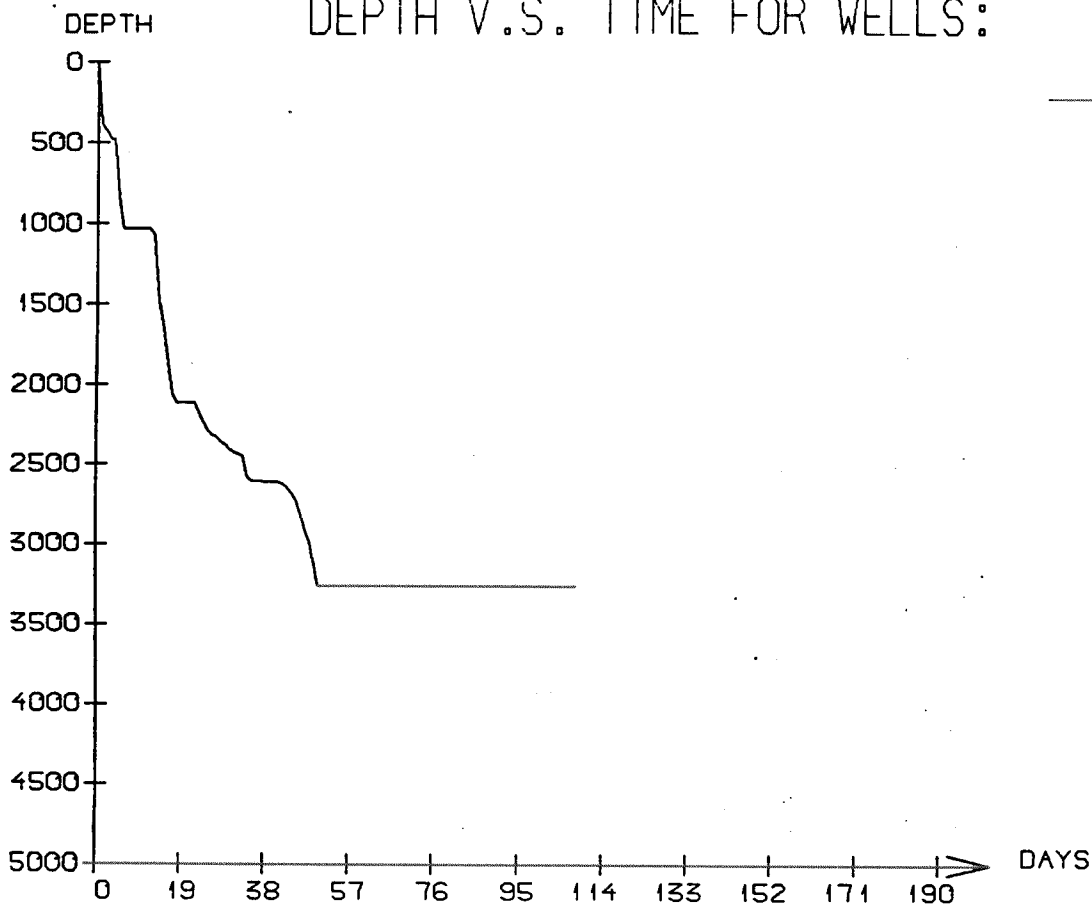
MAIN OPERATION: INTERRUPTION

Sub operations	Min	Hrs	% of total
WAIT	4590	76.50	18.09
MAINTAIN/REP	2130	35.50	8.39
OTHER	18660	311.00	73.52
<b>TOTAL</b>	<b>25380</b>	<b>423.00</b>	

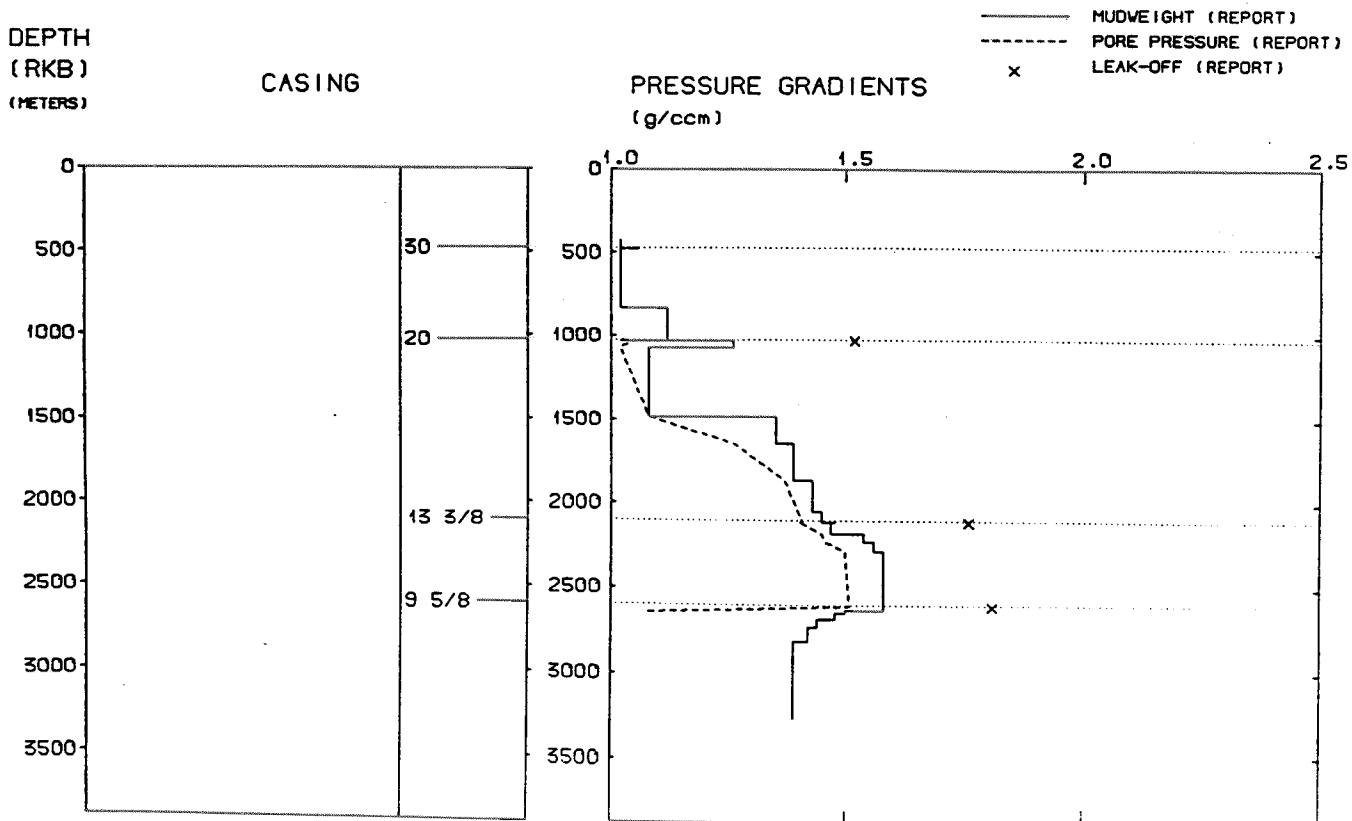
MAIN OPERATION: PLUG & ABANDON

Sub operations	Min	Hrs	% of total
CEMENT PLUG	450	7.50	6.73
TRIP	1680	28.00	25.11
MECHANICAL PLUG	1110	18.50	16.59
SQUEEZE	210	3.50	3.14
CIRC/COND	150	2.50	2.24
OTHER	120	2.00	1.79
PERFORATE	120	2.00	1.79
CUT	1740	29.00	26.01
EQUIP RECOVERY	1110	18.50	16.59
<b>TOTAL</b>	<b>6690</b>	<b>111.50</b>	

# DEPTH V.S. TIME FOR WELLS:



## WELL: 650707 02      PRESSURE COMPOSITE PLOT



## Well History 6507/7-2.

### General:

Wildcat well 6507/7-2 was drilled on the B-prospect, a southward plunging horst block formed by a late Jurassic tensional fault system. The well is situated at the western flank of the Trøndelag Platform in the northern part of Haltenbanken, the Heidrun Field. 6507/7-2 was designed to test a major fault-block formed by the late Jurassic tensional fault system. The main objective for the well was to test the reservoir interval in the Lower Jurassic Sst of the Aldra Formation. A secondary objective was the Middle Jurassic Sst. Proposed depth in Triassic rocks at 3100 m.

### Operations:

Wildcat well 6507/7-2 was spudded 25 February 1985 by Golar-Nor Offshore Norway a/s semi-submersibel rig Nortrym, and completed 10 June 1985 at a depth of 3262 m RKB in Triassic red beds. Anomalies occurred at 427- and 620 m RKB. Some problems with drillstring deviation occurred during drilling due to large blocks in the deposits, but the drilling angle was maintained.

Swelling clay came in as expected at 1600 m RKB, but caused no problems.

The testprogram was delayed approximately 2 weeks due to a premature firing of perforation guns, while running in for test 4. This made it necessary to set a 7" liner to cover the perforations in the interval between 1062-1072 m RKB.

Between 2203- 2228 m RKB traces of medium to coarse sand was encountered, and top sand came in at 2293 m. A total of 14 cores were cut in the interval between 2284- to 2448 m RKB. Log interpretations indicated that the upper sand was gas-bearing. Gas/oil contact at 2318 m RKB, oil/water contact at 2451 m RKB.

Circulation was lost at 2611 m RKB after having drilled out the 9 5/8" shoe, and a total 127 barrels were lost to the formation, before the well was brought under control.

### Testing:

7 DST tests was carried out, one in the waterzone, two in the gaszone and four in the oilzone.



# GEOLOGICAL TOPS

WELL: 6507/07-02

	<i>Depth m (RKB)</i>
<i>Nordland Group</i>	376,0
<i>Naust Fm</i>	376,0
<i>Kai Fm</i>	1454,0
<i>Hordaland Group</i>	1863,0
<i>Brygge Fm</i>	1863,0
<i>Rogaland Group</i>	1944,0
<i>Tare Fm</i>	1944,0
<i>Tang Fm</i>	1978,0
<i>Shetland Group</i>	2042,0
<i>Fangst Group</i>	2203,0
<i>Garn Fm</i>	2203,0
<i>Båt Group</i>	2217,0
<i>Ror Fm</i>	2217,0
<i>Tilje Fm</i>	2285,0
<i>Åre Fm</i>	2482,0
<i>T.D.</i>	3262,0

---