

Well no : 25/05-01

Operator : ELF

Coordinates : 59 43 47.19 N
02 34 13.46 E

UTM coord. : 6621549 N
475841 E

Licence no : 102

Permit no : 543

Rig : NORTRYM

Rig type : SEMI-SUB.

Contractor : GOLAR-NOR OFFSHORE A/S

Bottom hole temperature : deg.C

Elev. KB : 25 M

Spud. date : 87.05.12

Water depth : 118 M

Compl. date : 87.08.01

Total depth : 3430 M

Spud. class : WILDCAT

Form. at TD : TRIASSIC

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

Prod. form : M. JURASSIC

Seisloca : EL 8503 - 417 SP. 600

LICENSEES

30.000000 ELF AQUITAINE NORGE A/S
 20.000000 A/S NORSKE SHELL
 50.000000 DEN NORSKE STATS OLJESELSKAP 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	203.0	36	612.0	.
SURF. COND.	20	600.0	26	815.0	1.14
INTERM.	13 3/8	1978.0	17 1/2	2218.0	1.66
INTERM.	9 5/8	2910.5	12 1/4	2941.0	1.86
LINER	7	3421.0	8 1/2	3430.0	.

CONVENTIONAL CORES

Core no.	Intervals cored meters	Recovery		Series
		M	%	
1	2916.0 - 2925.0	8.4	93.3	
2	2990.0 - 3008.5	17.7	95.7	
3	3008.5 - 3027.5	18.8	98.9	
4	3027.5 - 3046.0	18.5	100.0	
5	3046.0 - 3057.0	11.0	100.0	
6	3064.0 - 3081.0	16.3	95.9	
7	3235.0 - 3253.5	17.9	96.8	
8	3253.5 - 3272.0	18.5	100.0	
9	3272.0 - 3291.0	19.0	100.0	

MUD PROPERTIES

Depth below KB meter	Mud weighth g/cm3	Viscosity	Mud type

1187.000	1.09	30.0	WATER BASED
1358.000	1.10	28.0	WATER BASED
1857.000	1.13	32.0	WATER BASED
1996.000	1.15	24.0	WATER BASED
2239.000	1.13	19.0	WATER BASED
2916.000	1.14	26.0	WATER BASED
2925.000	1.15	26.0	WATER BASED
2941.000	1.21	28.0	WATER BASED
3162.000	1.22	26.0	WATER BASED
3430.000	1.24	32.0	WATER BASED

DRILL STEM TEST

INTERVALS AND PRESSURES

Test no	interval meter	Choke size	Pressure (PSI)		
			WHP	BTHP	FFP
1.0	3233.000 - 3254.000 Test temperature: 111.6 °C	12.7	24.3	4677.2	4255.9
2.0	3025.000 - 3045.000 Test temperature: 106.4 °C	12.7	1260.2	4477.8	4415.4
2.1	3025.000 - 3045.000 Test temperature: 106.4 °C	12.7	1624.3	4474.4	4390.1
3.0	2987.000 - 3002.000 Test temperature: 104 °C	12.7	1424.2	4451.2	4020.2
3.1	2987.000 - 3002.000 Test temperature: 104 °C	12.7	1459.0	4439.4	3966.6

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	0	0	0.000	0.000	0
2.0	396	70681	0.827	0.705	167
2.1	437	87835	0.837	0.705	201
3.0	339	73580	0.830	0.790	217
3.1	442	82374	0.825	0.815	186

DRILL BIT CUTTINGS AND WET SAMPLES

SAMPLE TYPE	INTERVAL BELOW KB	NUMBER OF SAMPLES
Cutting	620-3430	90
Wet Samples	620-3430	768

SHALLOW GAS

Interval below KB	REMARKS

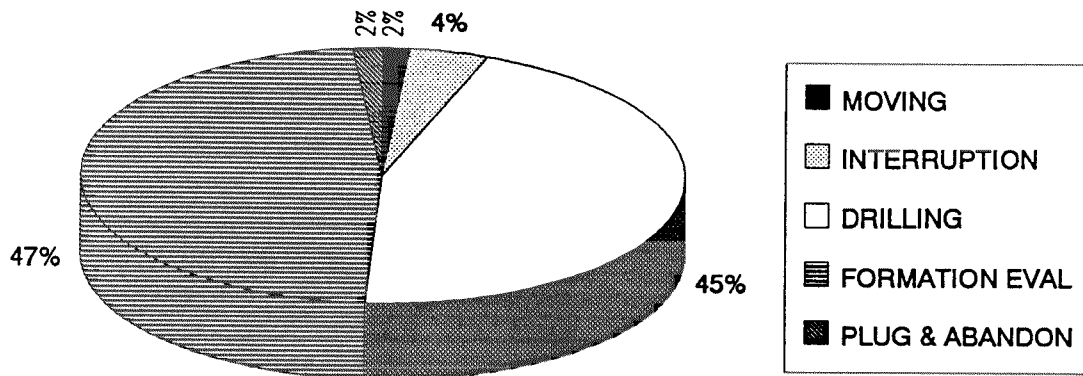
AVAILABLE LOGS

LOG TYPE	INTERVALS	1/200	1/500	Div.
DIL LSS GR	598.000 - 1975.000	X	X	
DIL LSS GR	1978.000 - 2916.000	X	X	
DIL LSS GR	2910.000 - 3150.000	X	X	
DIL LSS GR	3062.000 - 3428.000	X	X	
LDL GR	1978.000 - 2916.000	X	X	
LDL GR	2910.000 - 3149.000	X	X	
LDL CNL NGL EPL	2911.000 - 3429.000	X	X	
DLL MSFL GR	2910.000 - 3146.000	X	X	
DLL MSFL GR	2975.000 - 3425.000	X	X	
SHDT GR	1978.000 - 2916.000	X		
SHDT GR	2911.000 - 3429.000	X		
SHDT/CYBERLOOK	2910.000 - 3149.000	X		
CDM AP/SHDT CYBERDIP	2911.000 - 3429.000	X	X	
LDT	598.000 - 1975.000	X	X	
BGT	598.000 - 1972.000	X		
RFT HP GR	2989.000 - 3058.000	X		
RFT HP	2989.000 - 3399.000	X		
NGL EPL	2911.000 - 3429.000	X		
CBL VDL GR CCL	304.000 - 1978.000	X		
CBL VDL CCL	1545.000 - 2910.000	X		
VELOCITY	610.000 - 3420.000			X

(VSP, 10-20 cm/s 7 stk.)
 (Synthetic seismogram, 10 cm/s 7 stk.)
 (Two-way travel time, 10-20 cm/s 2 stk.)
 (Velocity, boat source survey 1 stk.)

DAILY DRILLING REPORT SYSTEM

MAIN OPERATIONS FOR WELL: 25/05-01



Main operation	Minutes	Hrs	% of total
MOVING	1680	28,0	1,50
INTERRUPTION	4350	72,5	3,87
DRILLING	48840	814,0	43,48
FORMATION EVAL	51120	852,0	45,51
PLUG & ABANDON	1740	29,0	1,55
COMPLETION	4590	76,5	4,09
<i>Total</i>	<i>112320</i>	<i>1872,0</i>	<i>100,00</i>

SUB OPERATIONS FOR WELL: 25/05-01

MAIN OPERATION: MOVING

Sub operation	Minutes	Hrs	% of total
TRANSIT	630	10,5	37,50
ANCHOR	810	13,5	48,21
POSITION	240	4,0	14,29
<i>Total</i>	1680	28,0	100,00

MAIN OPERATION: INTERRUPTION

Sub operation	Minutes	Hrs	% of total
MAINTAIN/REP	3540	59,0	81,38
FISH	810	13,5	18,62
<i>Total</i>	4350	72,5	100,00

MAIN OPERATION: DRILLING

Sub operation	Minutes	Hrs	% of total
CASING	8580	143,0	17,57
TRIP	12060	201,0	24,69
DRILL	20460	341,0	41,89
CIRC/COND	2550	42,5	5,22
HOLE OPEN	960	16,0	1,97
BOP/WELLHEAD EQ	1410	23,5	2,89
PRESS DETECTION	180	3,0	0,37
REAM	1680	28,0	3,44
BOP ACTIVITIES	810	13,5	1,66
SURVEY	150	2,5	0,31
<i>Total</i>	48840	814,0	100,00

MAIN OPERATION: FORMATION EVAL

Sub operation	Minutes	Hrs	% of total
CIRC/COND	2220	37,0	4,34
TRIP	14910	248,5	29,17
LOG	6660	111,0	13,03
CIRC SAMPLES	540	9,0	1,06
CORE	5430	90,5	10,62
RFT/FIT	1950	32,5	3,81
PROD TEST	2880	48,0	5,63
DST	16500	275,0	32,28
OTHER	30	0,5	0,06
<i>Total</i>	51120	852,0	100,00

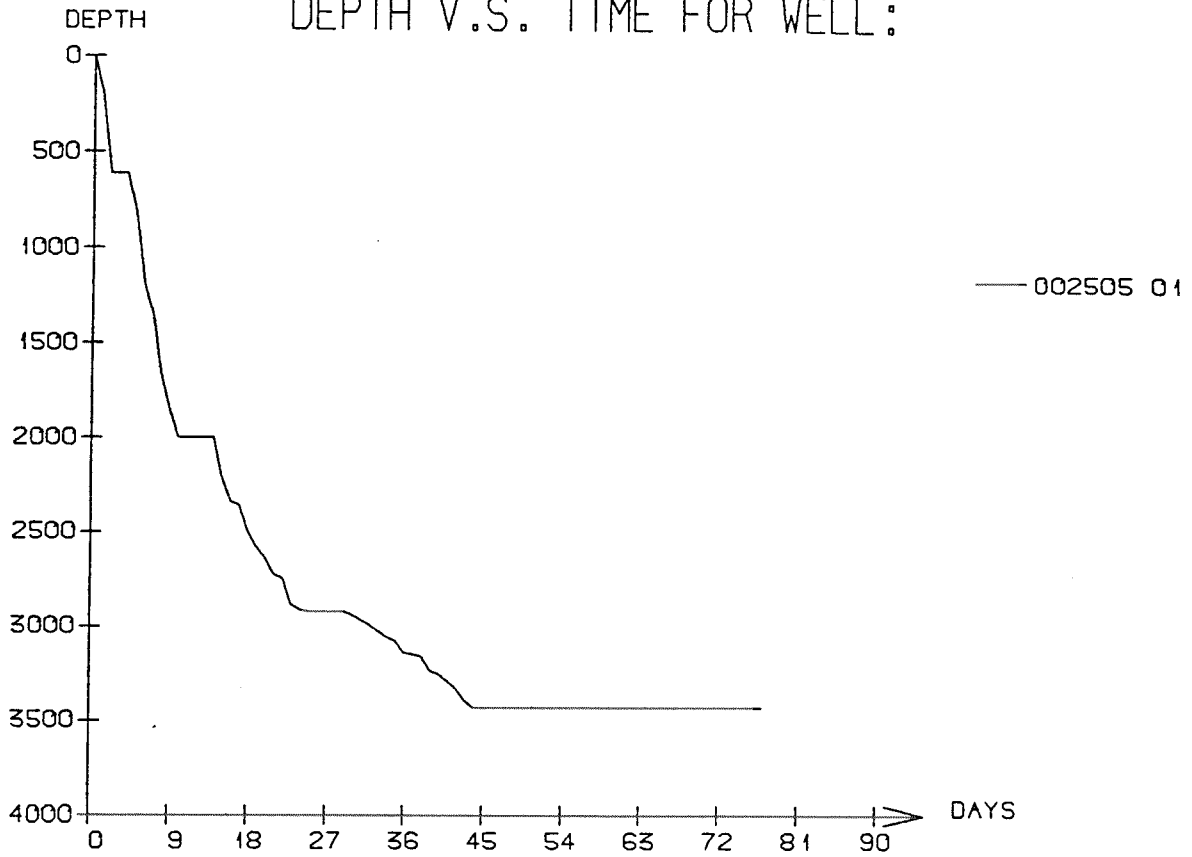
MAIN OPERATION: PLUG & ABANDON

Sub operation	Minutes	Hrs	% of total
TRIP	660	11	37,931034
CEMENT PLUG	30	0,5	1,7241379
CIRC/COND	120	2	6,8965517
MECHANICAL PLUG	930	15,5	53,448276
<i>Total</i>	1740	29	100

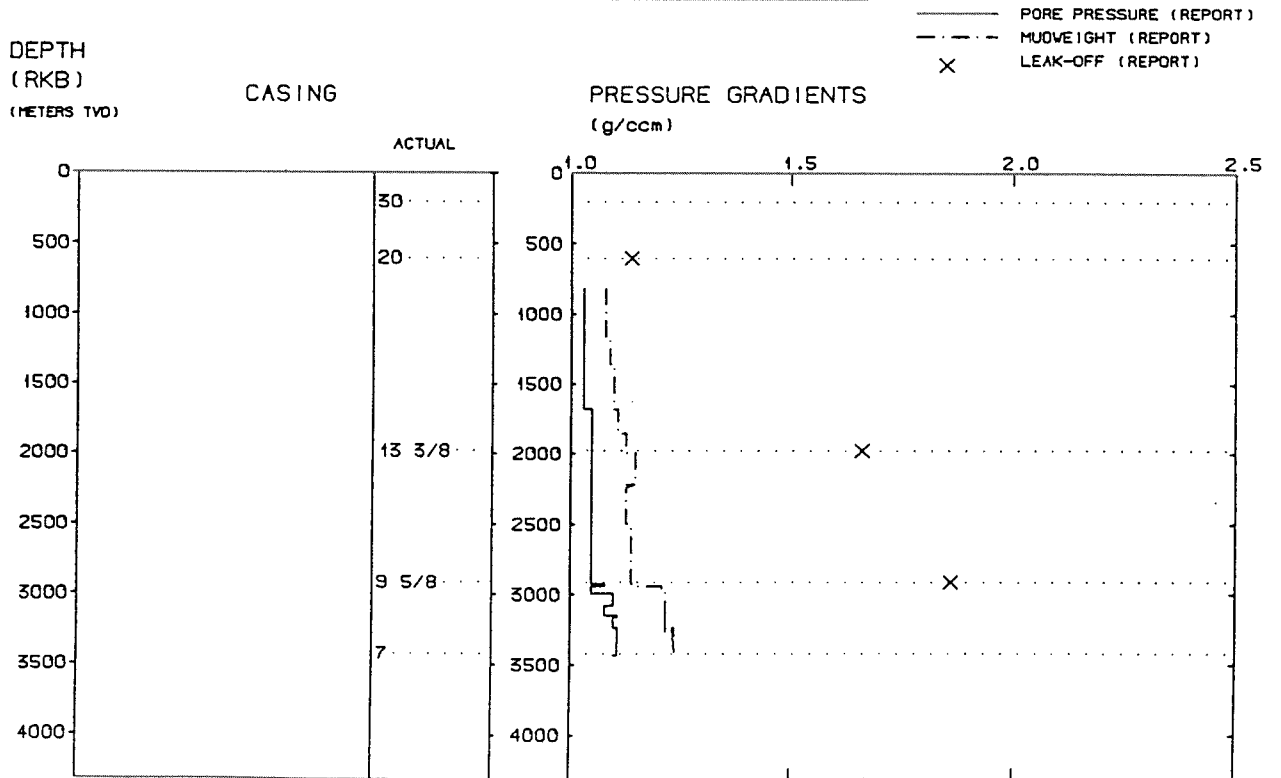
MAIN OPERATION: COMPLETION

Sub operation	Minutes	Hrs	% of total
COMPL STRING	3450	57,5	75,16
CIRC/COND	210	3,5	4,58
WIRE LINE	420	7,0	9,15
BOP/WELLHEAD EQ	510	8,5	11,11
<i>Total</i>	4590	76,5	100,00

DEPTH V.S. TIME FOR WELL :



WELL : 002505 01 PRESSURE COMPOSITE PLOT



Well History 25/5-1

GENERAL :

Well 25/5-1 was drilled on a Jurassic structure straddling the two blocks 25/5 and 25/2. It is located near the crest of a westward tilted Jurassic fault block in the northern part of block 25/5. The northern extension of this structure was drilled in 1977 by well 25/2-6 which is located in the southern part of the neighbouring block 25/2, in a downdip position relative to well 25/5-1. Well 25/2-6 was plugged and abandoned with limited oil shows in sandstones of the Early Jurassic Statfjord Formation.

The main objectives of well 25/5-1 were:

- to test the hydrocarbon potential of the Middle Jurassic Vestland Group sandstones and the Early Jurassic Statfjord Formation sandstones updip of well 25/2-6.
- to drill in a position which left small quantities of hydrocarbons updip.

OPERATIONS :

Wildcat well 25/5-1 was spudded 12 May 1987 by Norcem semi-submersible rig Nortrym and completed 1 August 1987 at a depth of 3430 m in Triassic rocks. Drilling proceeded without any significant problems. There was no sign of shallow gas.

1 core was cut in the Draupne Fm. between 2916 and 2925 m. Top reservoir (Sleipner Fm.) was encountered at 2984 m, and 5 cores were cut between 2990 - 3081 m. The logs show that the whole reservoir section contains oil. A possible oil/water contact lies 100 - 200 m below the lithological contact at 3060 m. Due to this the hole is to be sidetracked to find the oil/water contact in the Sleipner Formation. Top Statfjord came in at 3232 m, and 3 cores were cut in the interval 3235 - 3291 m. There are shows down to 3264 m, whereafter the sandstones are waterbearing. Triassic was also waterbearing.

The well was plugged and abandoned as an oil and gas discovery.

TESTING :

3 DST-tests were performed in this well. They were performed in the intervals 3233 - 3254 m, 3025 - 3045 m and 2987 - 3007 m.

GEOLOGICAL TOPS

WELL: 25/5-1

	Depth m (RKB)
<i>Nordland Group</i>	143.0
<i>Utsira Fm.</i>	612.0
<i>Hordaland Group</i>	920.0
<i>Skade Fm.</i>	951.0
<i>Rogaland Group</i>	2169.0
<i>Balder Fm.</i>	2169.0
<i>Sele Fm.</i>	2282.0
<i>Lista Fm.</i>	2327.0
<i>Heimdal Fm</i>	2400.0
<i>Lista Fm</i>	2447.0
<i>Ty Fm.</i>	2547.0
<i>Shetland Group</i>	2570.0
<i>Ekofisk Fm.</i>	2570.0
<i>Tor Fm.</i>	2624.0
<i>Hod Fm.</i>	2802.5
<i>Blodøks Fm.</i>	2834.0
<i>Cromer Knoll Group</i>	2871.0
<i>Rødby Fm.</i>	2871.0
<i>Viking Group</i>	2905.0
<i>Draupne Fm.</i>	2905.0
<i>Heather Fm.</i>	2955.0
<i>Vestland Group</i>	2984.0
<i>Sleipner Fm.</i>	2984.0
<i>Dunlin Group</i>	3060.0
<i>Drake Fm.</i>	3060.0
<i>Amundsen Fm.</i>	3121.0
 <i>Statfjord Fm.</i>	3232.0
 <i>Hegre Group</i>	3374.0
<i>Lunde Fm.</i>	3374.0
 <i>T.D.</i>	3430.0