

Well no : 30/ 6-15 Operator : HYDRO

Coordinates : 60 32 18.49 N UTM coord. : 6711563 N
 02 45 49.64 E UTM zone 31 487038 E

Licence no : 053 Permit no : 414

Rig : TREASURE SEEKER Rig type : SEMI-SUB.

Contractor : WILHELMSSEN OFFSHORE SERVICES

Bottom hole temperature : 101 deg.C Elev. KB : 25 M

Spud date : 84.05.02 Water depth : 107 M

Compl. date : 84.09.05 Total depth : 3972 M

Spud class. : WILDCAT Age at TD : TRIASSIC

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

Seis. loc. : NH 82 - 165 SP. 457

LICENSEES

50.000 DEN NORSKE STATS OLJESELSKAP A.S
 13.333 ELF AQUITAINE NORGE A/S
 10.000 MOBIL DEVELOPMENT NORWAY A/S
 12.500 NORSK HYDRO PRODUKSJON A.S
 7.500 SAGA PETROLEUM A.S.
 6.667 TOTAL MARINE NORSK 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
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CONDUCTOR	30	194.0	36	195.0	
SURF.COND.	20	592.0	26	617.0	1.43
INTERM.	13 3/8	1883.0	17 1/2	1900.0	1.62
INTERM.	9 5/8	2989.5	12 1/4	3034.0	1.73
LINER	7	3500.0	8 1/2	3512.0	1.73
OPEN HOLE			6	3972.0	

CONVENTIONAL CORES

Core no.	Intervals cored meters	Recovery		Series
		M	%	
1	3254.0 - 3272.0	18.0	99.9	LOWER JURASSIC
2	3272.0 - 3294.0	22.0	89.0	LOWER JURASSIC
3	3294.0 - 3321.0	27.0	99.9	LOWER JURASSIC
4	3321.0 - 3349.0	28.0	96.0	LOWER JURASSIC
5	3349.0 - 3365.0	16.0	93.0	LOWER JURASSIC
6	3365.0 - 3377.0	12.0	92.7	LOWER JURASSIC
7	3377.0 - 3390.0	11.1	85.4	LOWER JURASSIC
8	3390.0 - 3401.0	8.5	77.0	LOWER JURASSIC

MUD PROPERTIES

Depth below KB meter	Mud weight g/cm ³	Mud type
195.0	1.04	WATER BASED
240.0	1.03	WATER BASED
386.0	1.07	WATER BASED
529.0	1.10	WATER BASED
617.0	1.10	WATER BASED
620.0	1.05	WATER BASED
779.0	1.15	OIL BASED
1120.0	1.18	OIL BASED
1289.0	1.20	OIL BASED
1719.0	1.21	OIL BASED
1900.0	1.25	OIL BASED
2128.0	1.45	OIL BASED
2592.0	1.48	OIL BASED
3005.0	1.50	OIL BASED
3034.0	1.30	WATER BASED
3085.0	1.35	WATER BASED
3201.0	1.30	WATER BASED
3294.0	1.31	WATER BASED
3349.0	1.31	WATER BASED
3369.0	1.34	WATER BASED
3390.0	1.31	WATER BASED
3418.0	1.28	WATER BASED
3434.0	1.31	WATER BASED
3512.0	1.28	WATER BASED

DRILL STEM TEST

INTERVALS AND PRESSURES

Test no.	Interval meter	Choke size	Pressure (PSI)		
			FSIP	WHP	FFP
1.0	3354.5 - 3351.5	7.9	4630.0	672.0	4397.0
2.0	3330.4 - 3323.8	17.5	4627.0	1900.0	4553.0
3.0	3265.5 - 3250.5	25.4	4635.0	2850.0	4617.0

RECOVERY

Test no.	Oil Sm ³ /d	Gas M Sm ³ /d	Oil grav. g/cm ³	Gas grav. rel. air	GOR m ³ /m ³
1.0	43				
2.0	1034	0**	0.840	0.660	135
3.0	250*	974	0.760*	0.680	3902

* - CONDENSATE

** - GAS RATE NOT MEASURED

DRILL BIT CUTTINGS AND WET SAMPLES

SAMPLE TYPE	INTERVAL BELOW KB	NUMBER OF SAMPLES
CUTTINGS	195 - 3972	875
WET SAMPLES	200 - 3972	480

SHALLOW GAS

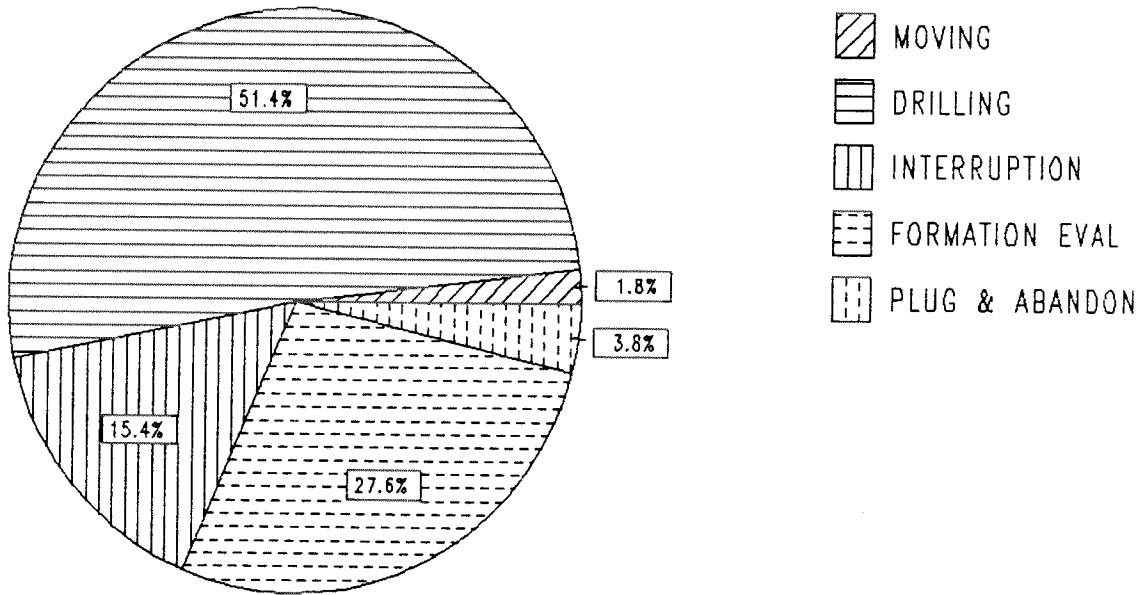
INTERVAL BELOW KB	REMARKS
	NONE

AVAILABLE LOGS

LOG TYPE	INTERVALS	1/200	1/500
ISF LSS GR	193 - 614	X	X
DIL LSS	591 - 1897	X	X
DIL LSS	1881 - 2992	X	X
ISF LSS	2989 - 3394	X	X
ISF LSS	3207 - 3507	X	X
ISF LSS	3498 - 3967	X	X
ISF LSS TVD	180 - 619	X	
DIL LSS TVD	555 - 1615	X	
DIL LSS TVD	1600 - 2439	X	
ISF LSS TVD	2416 - 2765	X	
ISF LSS TVD	2615 - 2850	X	
ISF LSS TVD	2833 - 3201	X	
ISF LSS TVD	180 - 3201		X
LDL	590 - 1897	X	
LDL CNL	1881 - 2988	X	
LDL CNL	2989 - 3396	X	
LDL CNL NGL	3207 - 3508	X	
FDC CNL	3497 - 3686	X	
LDL CNL	614 - 3967		X
LDL TVD	565 - 1615	X	
LDL CNL TVD	1600 - 2439	X	
LDL CNL TVD	2432 - 2765	X	
LDL CNL SGR TVD	2615 - 2852	X	
FDC CNL TVD	2769 - 2988	X	
LDL CNL TVD	585 - 2980		X
DLL MSFL	2989 - 3390	X	X
DLL MSFL TVD	2425 - 2760	X	X
CDM	2300 - 2981	X	
CDM AP	1878 - 2980	X	X
SHDT	2989 - 3509	X	
NGT SPECTRO	3207 - 3508	X	
NGT SPECTRO TVD	2615 - 2853	X	
RFT HP	2887 - 2900		1:100
RFT HP GAUGE	3244 - 3391		
RFT STRAIN GAUGE	3244 - 3391		
RFT SAMPLES	3284 - 3353		
RFT SAMPLE	3313 - 3439		1:100
RFT HP GAUGE	3313 - 3439		1:100
RFT STRAIN GAUGE	3313 - 3439		1:100
DRILLING DATA PRESS. LOG	132 - 3297		1:5000
TEMPERATURE DATA LOG	132 - 3297		1:5000
DXC NXB	132 - 3297		1:5000
CBL VDL CCL	490 - 1880	X	
CBL VD	1286 - 2980	X	
CBL VDL	2831 - 3495	X	
MUD	132 - 3972		X
VELOCITY	591 - 3967		X
(+ O/S VSP	356 - 3620	1	stk)
(+ Synthetic Seismogram, Geogram, 10 cm/s.		4	stk)

DAILY DRILLING REPORT SYSTEM

Main operation : 30/06-15



Total : 3072.00 HRS

Main operation	Minutes	Hours	% of total
MOVING	3390	56.50	1.8
DRILLING	94725	1578.75	51.3
INTERRUPTION	28350	472.50	15.3
FORMATION EVAL	50925	848.75	27.6
PLUG & ABANDON	6930	115.50	3.7

MAIN OPERATION: MOVING

Sub operations	Min	% of total
TRANSIT	1485	43.81
ANCHOR	1905	56.19
TOTAL	3390	100.00

MAIN OPERATION: DRILLING

Sub operations	Min	% of total
CASING	14801	15.63
TRIP	30439	32.13
DRILL	24120	25.46
CIRC/COND	7470	7.89
SURVEY	2175	2.30
BOP/WELLHEAD EQ	5160	5.45
OTHER	720	0.76
PRESS DETECTION	465	0.49
UNDERREAM	1770	1.87
BOP ACTIVITIES	2880	3.04
REAM	4140	4.37
WAIT	585	0.62
TOTAL	94725	100.00

MAIN OPERATION: INTERRUPTION

Sub operations	Min	% of total
MAINTAIN/REP	15540	54.81
OTHER	450	1.59
SIDETRACK	105	0.37
FISH	12165	42.91
WAIT	90	0.32
TOTAL	28350	100.00

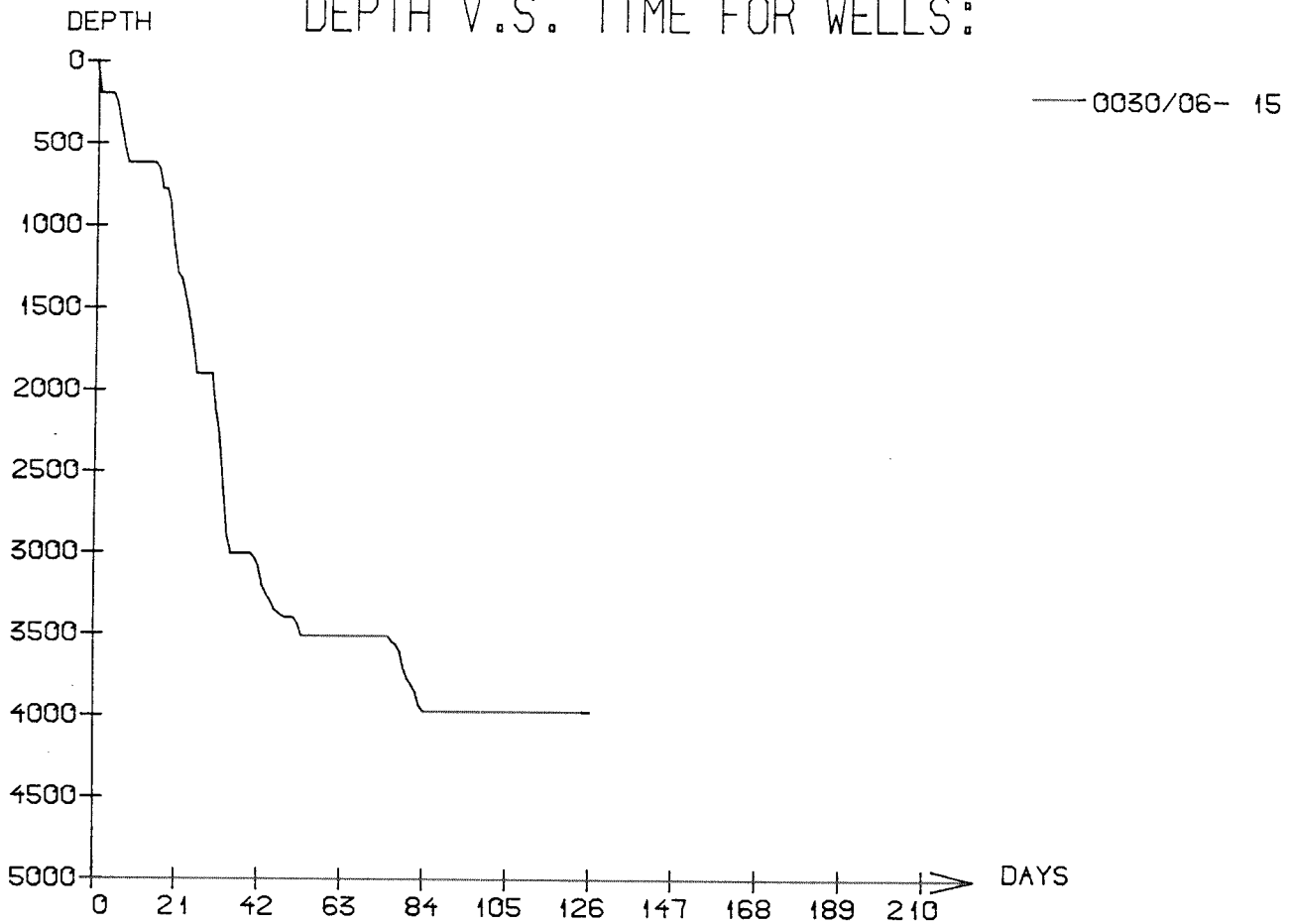
MAIN OPERATION: FORMATION EVAL

Sub operations	Min	% of total
LOG	11940	23.45
CORE	2280	4.48
TRIP	8565	16.82
CIRC/COND	2790	5.48
OTHER	465	0.91
DST	21465	42.15
PROD TEST	3420	6.72
TOTAL	50925	100.00

MAIN OPERATION: PLUG & ABANDON

Sub operations	Min	% of total
TRIP	2760	39.83
CIRC/COND	165	2.38
CEMENT PLUG	660	9.52
PERFORATE	270	3.90
SQUEEZE	315	4.55
CUT	870	12.55
EQUIP RECOVERY	1515	21.86
OTHER	345	4.98
MECHANICAL PLUG	30	0.43
TOTAL	6930	100.00

DEPTH V.S. TIME FOR WELLS:



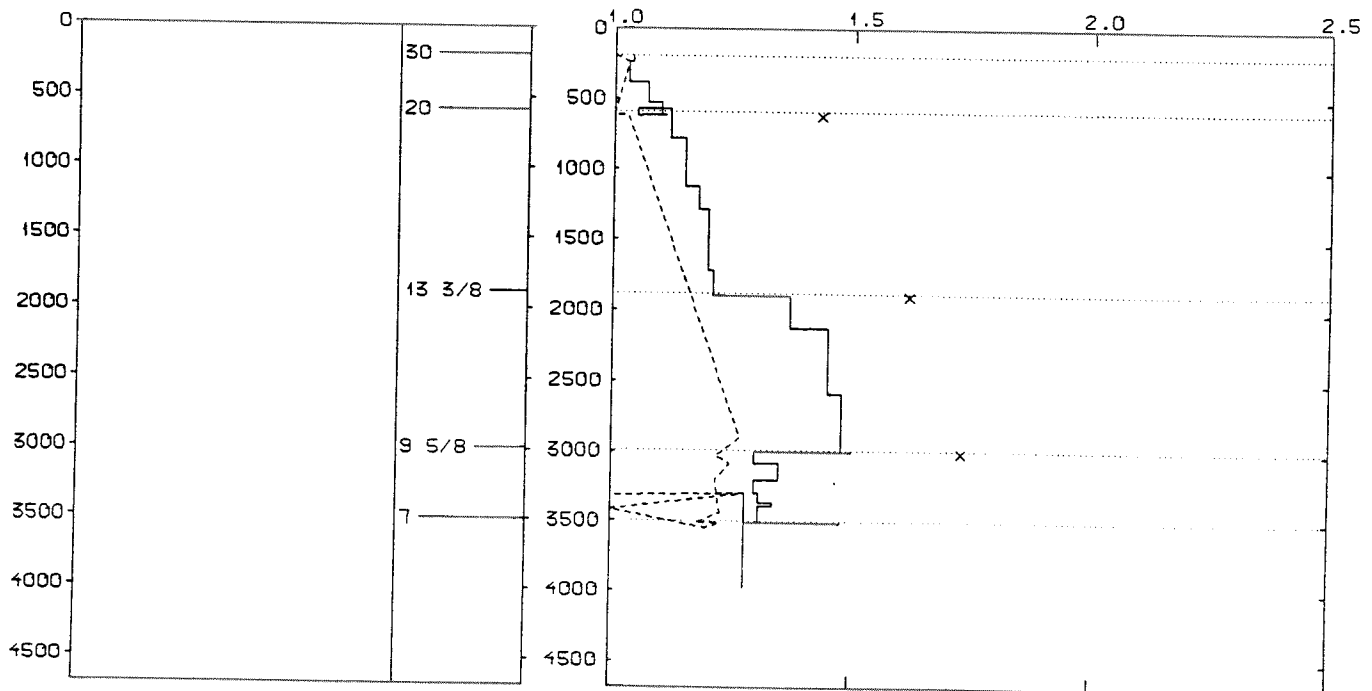
WELL: 003006 15 PRESSURE COMPOSITE PLOT

DEPTH
(RKB)
(METERS)

CASING

PRESSURE GRADIENTS
(g/ccm)

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



WELL HISTORY - 30/6-15

GENERAL:

The wildcat 30/6-15 is located on the Gamma-North structure on the western flank of block 30/6, and is deviated approximately 2180 meters towards the south-west. The main objectives of the well were to find hydrocarbon accumulations primary in the Statfjord Formation and secondary in the Cook Formation, to drill into the Cook Formation at a location where the top was not eroded, and to drill into the structurally highest located prospect on the western flank. 30/6-15 encountered hydrocarbons in the Lower Jurassic Statfjord Formation. No other hydrocarbon reservoirs were encountered by this well.

OPERATIONS:

30/6-15 was spudded 02.05.84 by the semi-submersible rig Treasure Seeker. Eight conventional cores were cut continuously in the Statfjord Formation.

The well was displaced to oil based mud before drilling the 17 1/2" hole. Some tight spots were experienced in the 17 1/2" and 12 1/4" holes. The well was displaced back to water based mud before drilling the 8 3/8" hole. Severe hole problems were experienced while logging the 6" hole.

TESTING:

Three DST's were performed in the Statfjord Formation, the first produced water from the transition zone. The second test was performed in the oil zone and the third in the gas zone.

Test number one and two produced 1% CO₂ and test number three produced 0.9 % CO₂. No H₂S was recorded.

The gas rate in² the second test was not measured due to malfunction.

GEOLOGICAL TOPS

WELL: 30/ 6-15

	Depth m (RKB)
<i>Nordland Group</i>	132.000
<i>Utsira Fm</i>	653.000
<i>Hordaland Group</i>	979.000
<i>Rogaland Group</i>	2360.000
<i>Balder Fm</i>	2360.000
<i>Sele Fm</i>	2473.000
<i>Lista Fm</i>	2623.000
<i>Våle Fm</i>	2693.000
<i>Shetland Group</i>	2712.000
<i>Dunlin Group</i>	2884.000
<i>Drake Fm</i>	2902.000
<i>Cook Fm</i>	3101.000
<i>Burton Fm</i>	3119.000
<i>Amundsen Fm</i>	3174.000
 <i>Statfjord Fm</i>	3241.000
<i>Hegre Group</i>	3548.000
 <i>TD =</i>	3972.000