

<b>Well no:</b>	<b>Operator:</b>
<b>30/06-24 S</b>	<b>HYDRO</b>

## Well

<b>Coordinates :</b>	60° 42' 02.74" N 02° 41' 34.28" E	<b>UTM coord. :</b>	6729655.59 N 483230.99 E
<b>License no :</b>	170	<b>Permit no :</b>	700
<b>Rig :</b>	TRANS. WILDCAT	<b>Rig type :</b>	SEMI-SUB.
<b>Contractor :</b>	TRANSNOR RIG AS		
<b>Bottom hole temp:</b>	130 °C	<b>Elev. KB :</b>	24 M
<b>Spud. date :</b>	91.10.13	<b>Water depth :</b>	144 M
<b>Compl. date :</b>	91.12.07	<b>Total depth :</b>	3986 M
<b>Spud. class :</b>	WILDCAT	<b>Form. at TD :</b>	TRIASSIC
<b>Compl. class :</b>	P&A. SHOWS	<b>Prod.form. :</b>	
<b>Seisloca :</b>	NH 850 - 110 SP. 182		

## Licensees

50.000000 DEN NORSKE STATS OLJESELSKAP A.S  
 20.000000 TOTAL NORGE AS  
 30.000000 NORSK HYDRO PRODUKSJON AS

## Casing and Leak-off Tests

Type	Casing diam	Depth below KB	Hole diam.	Hole depth below KB	Lot mud eqv. g/cm3
CONDUCTOR	30	231.0	36	231.0	
INTERM.	13 3/8	1004.0	17 1/2	1017.0	1.95
INTERM.	9 5/8	3052.0	12 1/4	3070.0	1.80
OPEN HOLE		3986.0	8 1/2	3986.0	

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## Conventional Cores

Core no.	Intervals cored meters	Recovery m	%
1	3682.0 - 3692.0	10.0	100.0
2	3696.5 - 3712.0	15.5	100.0

## Mud

Depth	Mud weight	Visc.	Mud type
199.0	1.05		WATER BASED
231.0	1.05		WATER BASED
422.0	1.05		WATER BASED
863.0	1.05		WATER BASED
1017.0	1.08		WATER BASED
1195.0	1.10	10.0	WATER BASED
1458.0	1.38	17.0	WATER BASED
1740.0	1.40	14.0	WATER BASED
2206.0	1.40	15.0	WATER BASED
2264.0	1.41	18.0	WATER BASED
2457.0	1.40	23.0	WATER BASED
2722.0	1.39	26.0	WATER BASED
2745.0	1.40	18.0	WATER BASED
2794.0	1.40	26.0	WATER BASED
2906.0	1.46	24.0	WATER BASED
2966.0	1.40	25.0	WATER BASED
3026.0	1.40	25.0	WATER BASED
3070.0	1.39	26.0	WATER BASED
3112.0	1.34	20.0	WATER BASED
3165.0	1.32	23.0	WATER BASED
3326.0	1.30	20.0	WATER BASED
3412.0	1.37	22.0	WATER BASED
3530.0	1.41	26.0	WATER BASED
3541.0	1.40	20.0	WATER BASED
3587.0	1.40	19.0	WATER BASED
3632.0	1.40	18.0	WATER BASED
3689.0	1.41	17.0	WATER BASED
3712.0	1.41	19.0	WATER BASED
3819.0	1.40	20.0	WATER BASED
3986.0	1.40	15.0	WATER BASED

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### Drill Stem Test (intervals and pressures)

Test no.	Test interval meter	Choke size	Pressure (psi) WHP	BTHP	FFP
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### Drill Stem Test (recovery)

Test no.	Oil Sm <sup>3</sup> /d	Gas 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>
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### Drill Bit Cuttings and Wet Samples

Sample type	Interval below KB	Number of samples
WET SAMPLES	1040 - 3985	360
CUTTINGS	1040 - 3986	510

### Shallow Gas

Interval below KB	Remarks

### Available Logs

Log type	Intervals logged	1/200	1/500	
AMS	1004.0 - 3990.0			
CDM AP/SHDT MSD	3064.0 - 3984.0			
DIL LSS AMS GR	3056.0 - 3989.0			
DIL LSS SP GR	1004.0 - 2985.0			
DIL LSS SP GR MD+TVD	1004.0 - 3989.0			
DRLG. DATA PRESSURE	200.0 - 3986.0			
FMS AMS GR	3057.0 - 3990.0			

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LDL CNL AMS GR	3056.0 - 3990.0			
LDL CNL GR MD+TVD	1004.0 - 3990.0			
LDL GR	1004.0 - 2965.0			
MUD	1030.0 - 3986.0			
MWD MD+TVD	145.0 - 3985.0			
RFT HP	3687.0 - 3783.0			
SYNTHETIC SEISMOGRAM				
TWO-WAY TRAVEL TIME	100.0 - 3600.0			
WELLSITE LITHOLOGY	150.0 - 3985.0			
VSP				

## Main operations for well: 30/6-24 S

### Main operation: DRILLING

Sub operation:	Minutes:	Hours:	% of total:
BOP ACTIVITIES	1440	24,0	2,86
BOP/WELLHEAD EQ	630	10,5	1,25
CASING	6870	114,5	13,63
CIRC/COND	1740	29,0	3,45
DRILL	26970	449,5	53,51
OTHER	210	3,5	0,42
REAM	180	3,0	0,36
SURVEY	30	0,5	0,06
TRIP	12330	205,5	24,46
<b>Total</b>	<b>50400</b>	<b>840,0</b>	<b>100,00</b>

### Main operation: FORMATION EVAL

Sub operation:	Minutes:	Hours:	% of total:
CIRC SAMPLES	330	5,5	5,31
CIRC/COND	210	3,5	3,38
CORE	480	8,0	7,73
LOG	3270	54,5	52,66
RFT/FIT	630	10,5	10,14
TRIP	1290	21,5	20,77
<b>Total</b>	<b>6210</b>	<b>103,5</b>	<b>100,00</b>

### Main operation: INTERRUPTION

Sub operation:	Minutes:	Hours:	% of total:
FISH	5940	99,0	38,60
MAINTAIN/REP	5130	85,5	33,33
WAIT	4320	72,0	28,07
<b>Total</b>	<b>15390</b>	<b>256,5</b>	<b>100,00</b>

### Main operation: MOVING

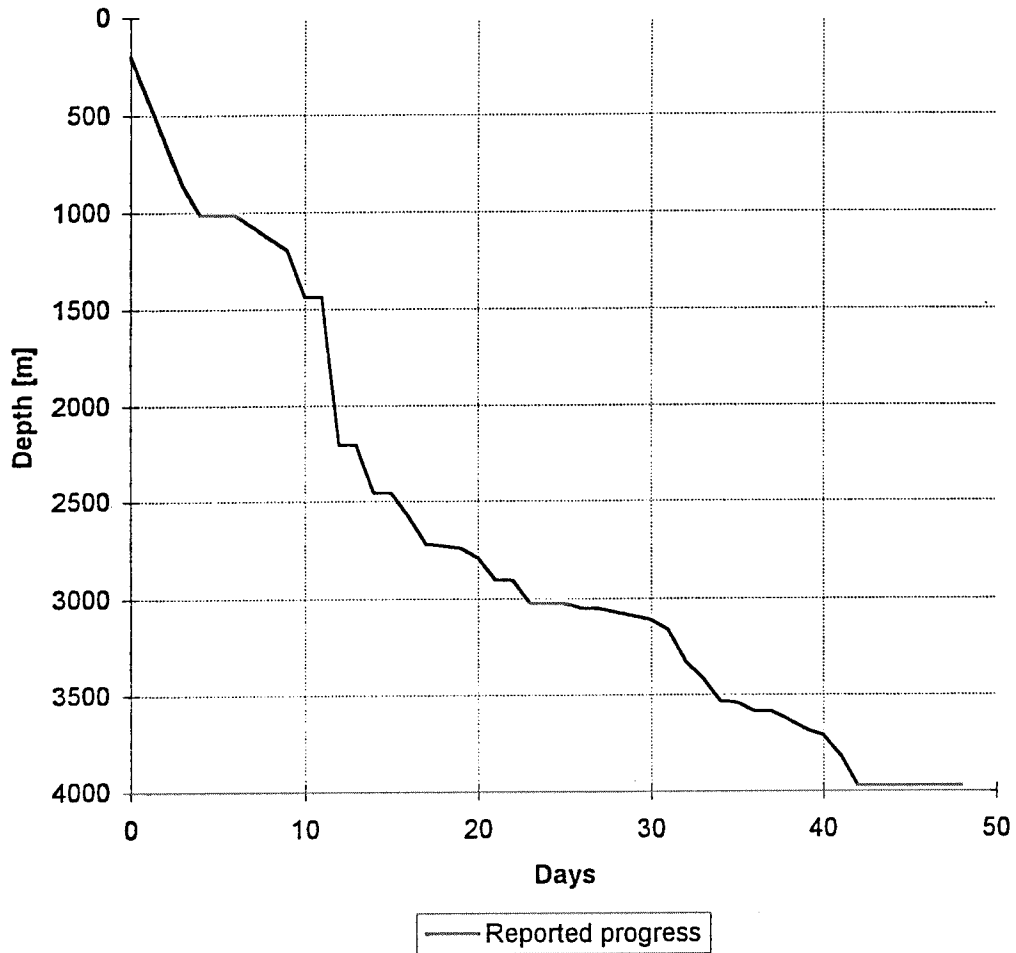
Sub operation:	Minutes:	Hours:	% of total:
ANCHOR	1500	25,0	92,59
TRANSIT	120	2,0	7,41
<b>Total</b>	<b>1620</b>	<b>27,0</b>	<b>100,00</b>

### Main operation: PLUG & ABANDON

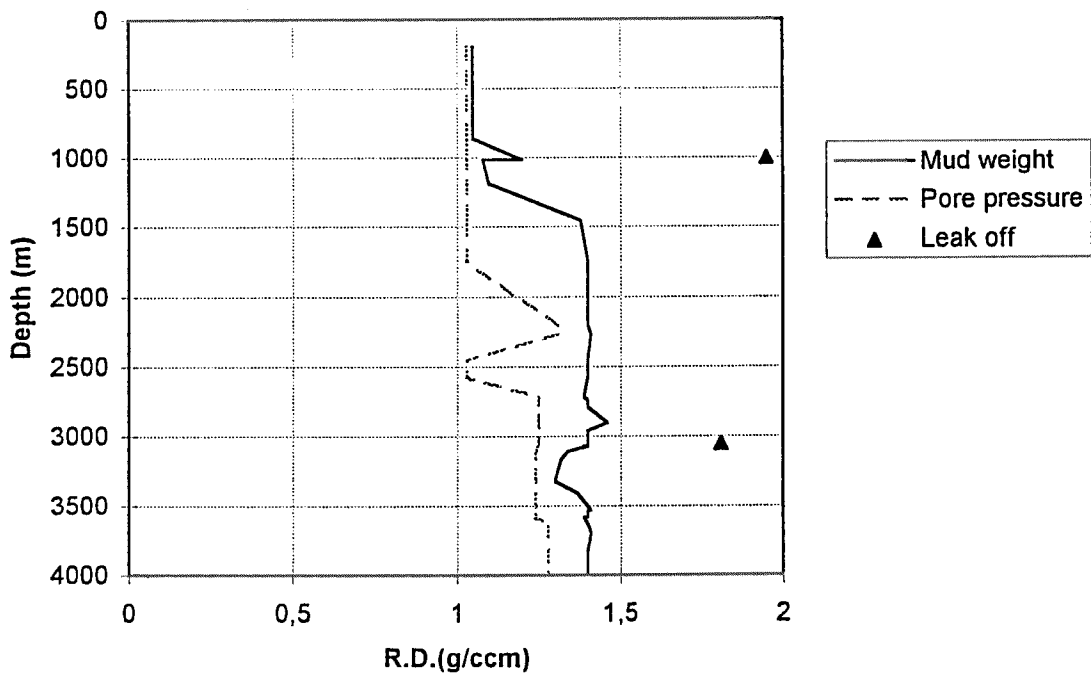
Sub operation:	Minutes:	Hours:	% of total:
CEMENT PLUG	360	6,0	5,22
CIRC/COND	300	5,0	4,35
CUT	540	9,0	7,83
EQUIP RECOVERY	1740	29,0	25,22
MECHANICAL PLUG	330	5,5	4,78
OTHER	390	6,5	5,65
PERFORATE	180	3,0	2,61
TRIP	3060	51,0	44,35
<b>Total</b>	<b>6900</b>	<b>115,0</b>	<b>100,00</b>

Total time used:  Hours

Depth vs time for well: 30/6-24 S



Composite plot for well: 30/6-24 S



# Well History 30/6-24 S

## General:

Well 30/6-24 S was an exploration well drilled on the Delta compartment in the northwestern corner of Block 30/6 on the Horda Platform. Pressure communication was assumed at Statfjord level of the wells 30/6-24 S and 30/6-11 (previously drilled further downflank of the Delta structure). The large fault bounding the Delta compartment to the south and east was assumed to be tight.

The main objectives of the well were:

- 1) to test the hydrocarbon potential of the Statfjord Formation on the Delta structure.
- 2) to verify the structural and geological interpretation of the Delta prospect.
- 3) to improve the stratigraphic database of the north-western part of block 30/6.

The well was planned as deviated with a kick-off at 1025 m RKB, because the target was located only 400 m west of Statpipe. Shallow gas warnings were given for two levels.

## Operations:

Wildcat well 30/6-24 S was spudded 13 October 1991 by the semi-submersible rig Vildcat Explorer and completed 6 December 1991 at a total depth of 3986 m RKB MD within the Triassic Lunde Formation. The well was drilled vertical to 1017 m RKB MD, and deviated below the 13 3/8" shoe. No shallow gas was observed. Problems occurred when the 9 5/8" csg. became stuck at 3052 m RKB. The attempts to free the pipe were unsuccessful, and the csg. was cemented in place. Drilling to TD proceeded without any significant problems. The Statfjord Formation was encountered between 3682.5 m RKB MD and 3940 m RKB MD. Minor isolated hydrocarbon shows were observed over a 3 m interval. A total of two conventional cores were cut in the uppermost part of the Statfjord Formation. No sidewall cores were taken in this well due to adverse hole conditions. The well was permanently plugged and abandoned as a dry hole.

## Testing:

No DST tests were performed.

# Geological Tops.

## Well:30/6-24 S

	Depth m (RKB).
Nordland Group	145,0
Utsira Fm	716,0
Hordaland Group	923,0
Rogaland Group	2107,0
Balder Fm	2107,0
Sele Fm	2197,0
Lista Fm	2247,0
Våle Fm	2377,0
Shetland Group	2442,0
Cromer Knoll Group	3575,5
Dunlin Group	3581,0
Amundsen Fm	3581,0
Statfjord Fm	3682,0
Hegre Group	3940,0
Lunde Fm	3940,0
T.D.	3986,0