

Well no : 34/ 7-03 Operator : SAGA

Coordinates : 61 25 54.08 N UTM coord. : 6811345
 02 07 43.89 E 453522

Licence no : 89 Permit no : 436

Rig : VILDKAT Rig type : SEMI-SUB.

Contractor : DITLEV-SIMONSEN (SDS DRILLING)

Bottom hole temperature : 107.2 deg.C Elev. KB : 24 M

Spud. date : 84.09.14 Water depth : 303 M

Compl. date : 85.01.02 Total depth : 3414 M

Spud. class : WILDCAT Form. at TD : TRIASSIC

Compl. class : P&A. OIL DISCOVERY Prod. form :

Seisloca : G/E - 153 SP. 440

LICENSEES

3.920000 DEMINEX (NORGE) A/S
 0.980000 DET NORSKE OLJESELSKAP AS
 7.840000 ELF AQUITAINE NORGE A/S
 14.700000 ESSO NORGE A.S
 11.760000 NORSK HYDRO PRODUKSJON A.S
 9.800000 SAGA PETROLEUM A.S.
 51.000000 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
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CONDUCTOR	30	450.0	36	454.0	
SURF.COND.	20	1153.0	26	1168.0	1.62
INTERM.	13 3/8	1922.0	17 1/2	1940.0	1.70
INTERM.	9 5/8	2753.0	12 1/4	2769.0	1.96
OPEN HOLE			8 1/2	3414.0	

CONVENTIONAL CORES

Core no.	Intervals cored meters	Recovery		Series
		M	%	
1	2396.0 - 2414.0	18.0	100.0	LOWER JURASSIC
2	2414.0 - 2414.5	0.5	100.0	LOWER JURASSIC
3	2414.5 - 2425.5	11.0	100.0	LOWER JURASSIC
4	2425.5 - 2434.1	8.6	64.0	LOWER JURASSIC
5	2439.0 - 2450.0	10.8	98.2	LOWER JURASSIC
6	2450.0 - 2459.5	8.7	91.7	LOWER JURASSIC
7	2459.5 - 2467.8	8.3	87.4	LOWER JURASSIC
8	2469.0 - 2471.0	1.7	85.0	LOWER JURASSIC
9	2471.0 - 2481.5	10.5	100.0	LOWER JURASSIC
10	2481.5 - 2487.5	4.3	71.7	LOWER JURASSIC
11	2487.5 - 2505.5	18.0	100.0	LOWER JURASSIC
12	2505.5 - 2506.5	0.0	0.0	LOWER JURASSIC
13	2506.5 - 2515.5	9.0	100.0 ?	LOWER JURASSIC/TRIASSIC
14	2515.5 - 2518.2	2.7	77.1 ?	LOWER JURASSIC/TRIASSIC
15	2519.0 - 2527.5	8.0	94.0 ?	LOWER JURASSIC/TRIASSIC
16	2527.5 - 2528.5	0.9	30.0 ?	LOWER JURASSIC/TRIASSIC
17	2549.5 - 2554.5	4.3	86.0 ?	LOWER JURASSIC/TRIASSIC
18	2606.0 - 2623.0	16.8	93.3 ?	LOWER JURASSIC/TRIASSIC
19	2625.0 - 2643.0	18.0	100.0 ?	LOWER JURASSIC/TRIASSIC

MUD PROPERTIES

Depth below KB meter	Mud weigh g/cm3	Funnel viscosity s/qt	Mud type
354.000	1.03		WATER BASED
652.000	1.07		WATER BASED
1021.000	1.13	46.0	WATER BASED
1168.000	1.26	48.0	WATER BASED
1430.000	1.13	44.0	WATER BASED
1575.000	1.28	50.0	WATER BASED
1860.000	1.37	50.0	WATER BASED
1940.000	1.46	55.0	WATER BASED
1945.000	1.50	55.0	WATER BASED
2214.000	1.67		WATER BASED
2309.000	1.68		WATER BASED
2376.000	1.73		WATER BASED
2428.000	1.70		WATER BASED
2786.000	1.63		WATER BASED
2846.000	1.61		WATER BASED

DRILL STEM TEST

INTERVALS AND PRESSURES

Test no.	interval meter	Choke size	Pressure (PSI)		
			WHP	BTHP	FFP
1.0	2601.000 - 2607.000	8.0	1319.8	4090.1	
2.0	2505.000 - 2513.000	11.0	1711.4	4351.1	
3.0	2440.500 - 2449.000	12.7	2422.1	5163.3	

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	300		0.840		28
2.0	680		0.836		26
3.0	1370		0.838		32

DRILL BIT CUTTINGS AND WET SAMPLES

SAMPLE TYPE	INTERVAL BELOW KB	NUMBER OF SAMPLES
Cutting	460 - 3414	468
Wet Samples	460 - 3379	600

SHALLOW GAS

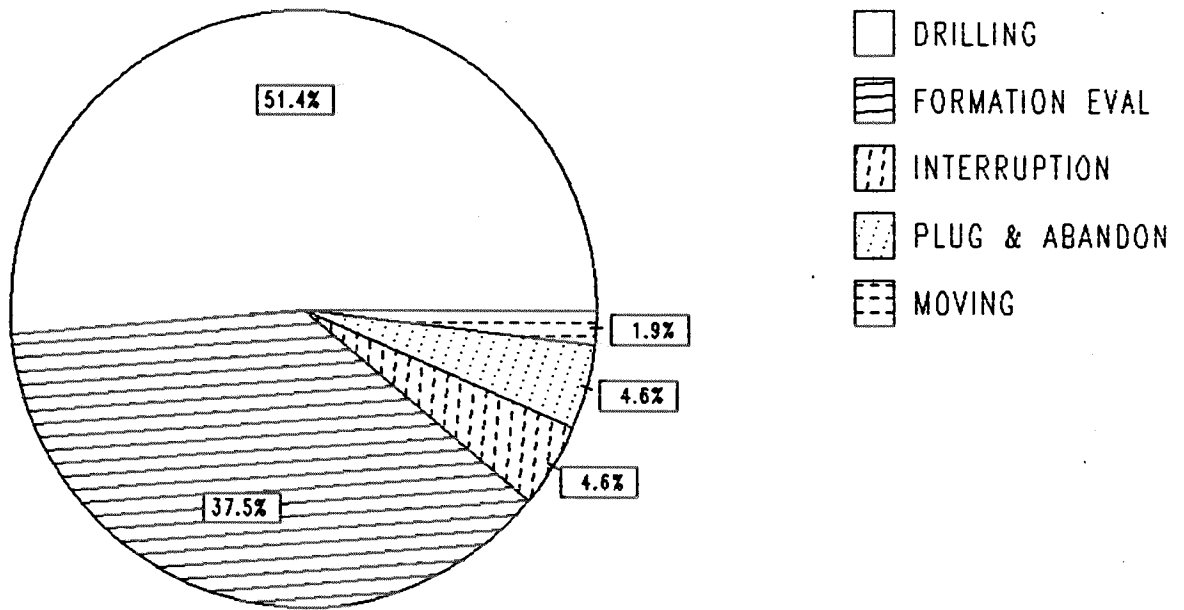
Interval below KB	REMARKS
	NONE

AVAILABLE LOGS

LOG TYPE	INTERVALS	1/200	1/500
ISF LSS GR	451 - 1162	X	
ISF LSS	1153 - 1923	X	
ISF MSFL BHC	1921 - 2543	X	
ISF LSS	2350 - 2766	X	
ISF LSS MSFL	2752 - 3411	X	
ISF LSS	451 - 3412		X
ISF LSS	451 - 1162	1:1000	
ISF LSS	1153 - 1923	1:1000	
ISF MSFL BHC	1921 - 2543	1:1000	
ISF LSS	2350 - 2766	1:1000	
ISF LSS MSFL	2752 - 3411	1:1000	
LDL	451 - 1163	X	X
LDL	1153 - 1924	X	X
LDL CNL NGL	1921 - 2768	X	X
LDL CNL NGL	2752 - 3412	X	X
DLL MSFL	2335 - 2764	X	X
EPT PCD NGT	1921 - 2761	X	X
CDR CAL	1152 - 1826	X	X
CDR CAL	1153 - 1924	X	X
CDM AP	1925 - 2768	X	X
CDM AP	2752 - 3412	X	X
CDM AP	2350 - 3413	1:50	
CDM PP	2424 - 2641		
SHDT	1921 - 2768	X	
SHDT	2752 - 3413	X	
NGT PLAYBACKS	2345 - 2764	X	X
NGL RATIOS	2752 - 3404	X	X
BGL	451 - 1158	X	X
BGL CAL	1153 - 1924	X	X
RFT PRESSURE DATA			
RFT PRESSURE DATA			
RFT PRESSURE DATA	2776 - 2927	X	
CBL VDL	1550 - 2751	X	
MUD	453 - 3414		X
VELOCITY	451 - 3412		X
(+ Synthetic Seismogram, Geogram, 10 cm/s,			12 stk)
(+ V.S.P., single offset, Plot 1-8,			8 stk)

DAILY DRILLING REPORT SYSTEM

Main operation : 34/07-03



Total : 2712 HRS

Main operation	Minutes	Hours	% of total
DRILLING	83610	1393.50	51.38
FORMATION EVAL	61050	1017.50	37.52
INTERRUPTION	7530	125.50	4.63
PLUG & ABANDON	7470	124.50	4.59
MOVING	3060	51.00	1.88

MAIN OPERATIONS WELL : 34/07-03

MAIN OPERATION: DRILLING

Sub operations	Min	Hrs	% of total
DRILL	29493	491.55	35.27
CIRC/COND	4980	83.00	5.96
TRIP	23664	394.40	28.30
SURVEY	210	3.50	0.25
OTHER	6603	110.05	7.90
CASING	5280	88.00	6.32
PRESS DETECTION	150	2.50	0.18
UNDERREAM	2940	49.00	3.52
REAM	1200	20.00	1.44
BOP/WELLHEAD EQ	6360	106.00	7.61
WAIT	1830	30.50	2.19
BOP ACTIVITIES	900	15.00	1.08
TOTAL	83610	1393.50	

MAIN OPERATION: MOVING

Sub operations	Min	Hrs	% of total
ANCHOR	2220	37.00	72.55
TRANSIT	840	14.00	27.45
TOTAL	3060	51.00	

MAIN OPERATION: FORMATION EVAL

Sub operations	Min	Hrs	% of total
LOG	13740	229.00	22.51
TRIP	19380	323.00	31.74
CIRC/COND	4320	72.00	7.08
OTHER	7410	123.50	12.14
CORE	1590	26.50	2.60
WAIT	1350	22.50	2.21
DST	13260	221.00	21.72
TOTAL	61050	1017.50	

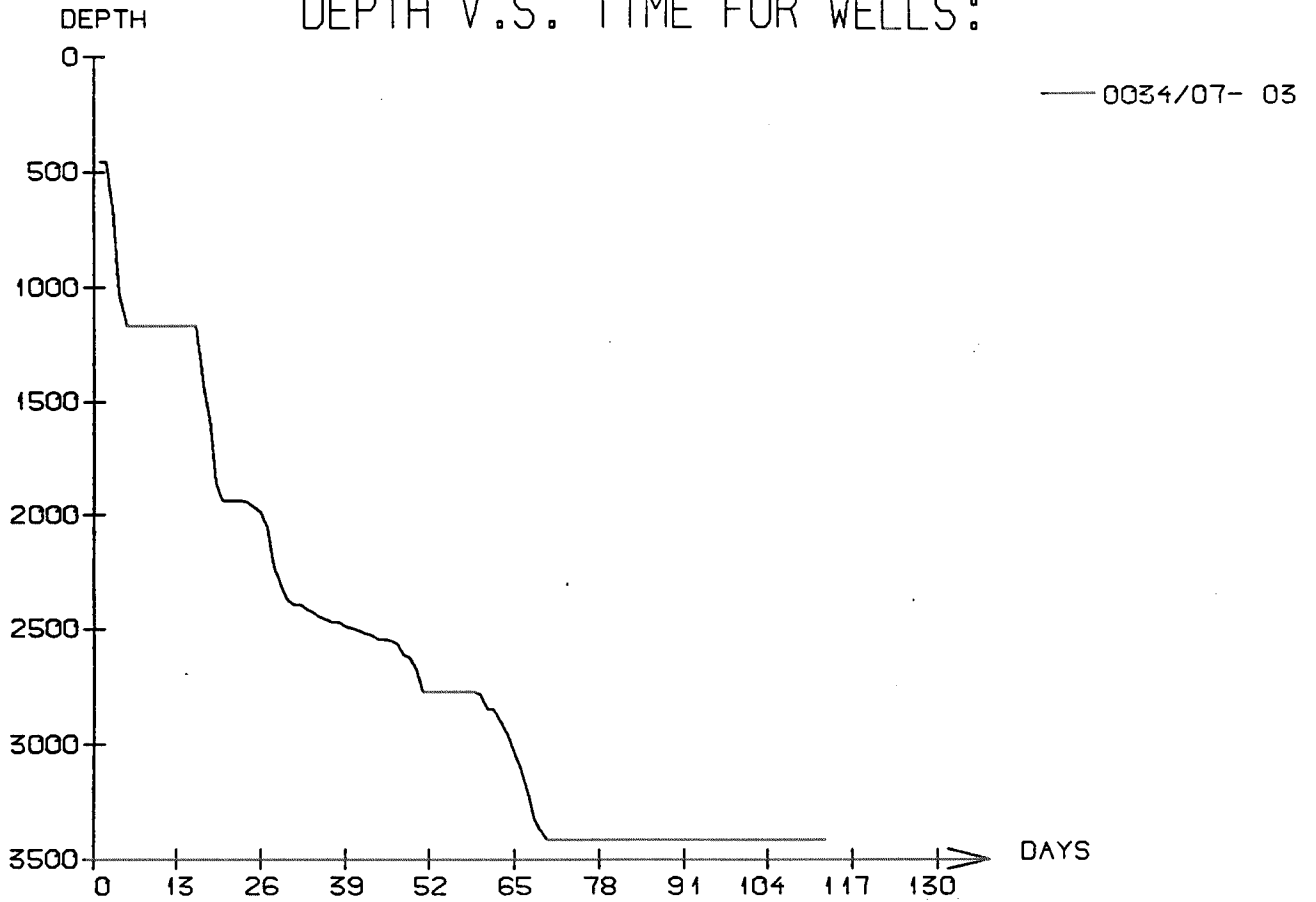
MAIN OPERATION: INTERRUPTION

Sub operations	Min	Hrs	% of total
MAINTAIN/REP	1200	20.00	15.94
FISH	4350	72.50	57.77
WAIT	1950	32.50	25.90
OTHER	30	0.50	0.40
TOTAL	7530	125.50	

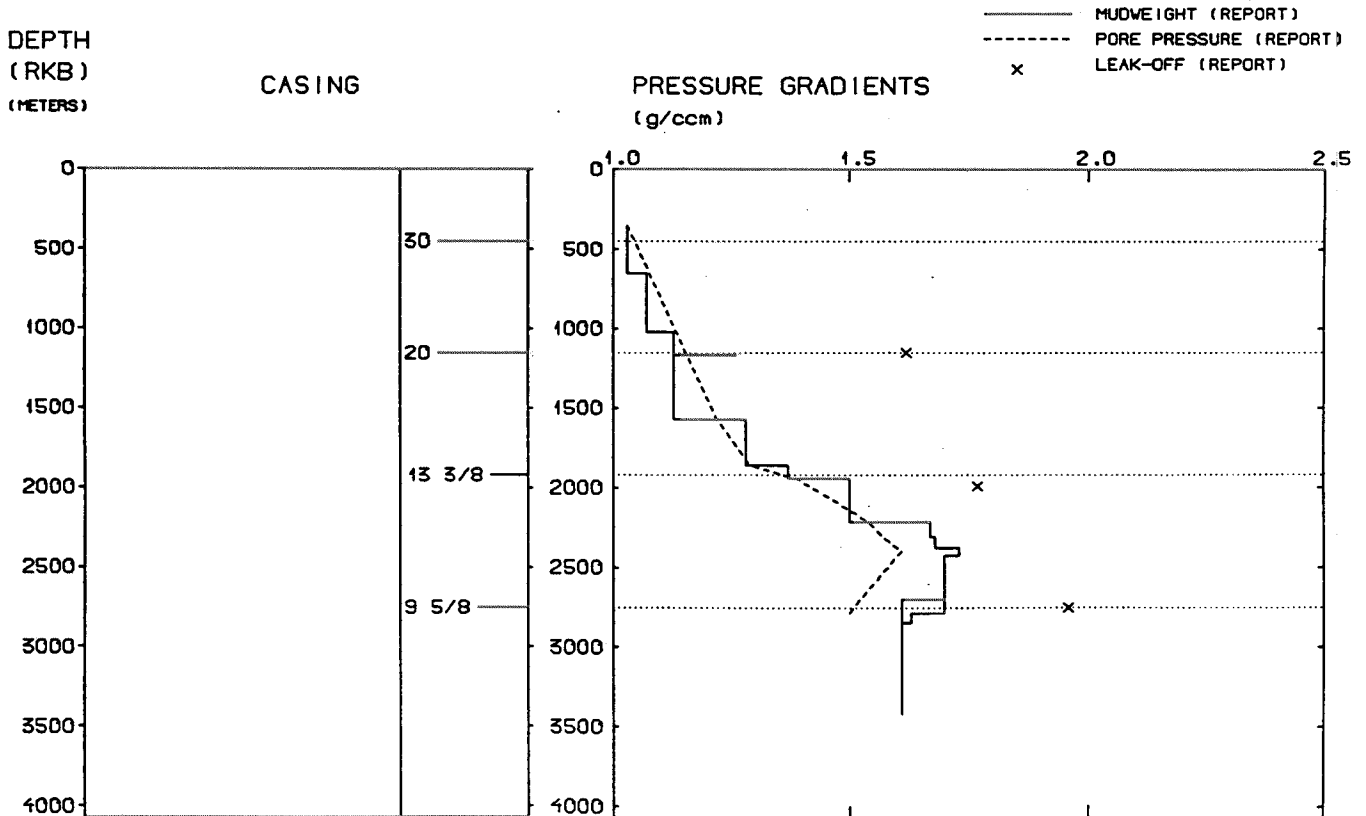
MAIN OPERATION: PLUG & ABANDON

Sub operations	Min	Hrs	% of total
TRIP	3170	52.83	42.44
OTHER	510	8.50	6.83
CIRC/COND	390	6.50	5.22
CEMENT PLUG	540	9.00	7.23
MECHANICAL PLUG	520	8.67	6.96
PERFORATE	300	5.00	4.02
CUT	930	15.50	12.45
EQUIP RECOVERY	1110	18.50	14.86
TOTAL	7470	124.50	

DEPTH V.S. TIME FOR WELLS:



WELL: 003407 03 PRESSURE COMPOSITE PLOT



WELL HISTORY 34/7-3

GENERAL:

Wildcat well 34/7-3 was drilled on the E-structure in the northern part of block 34/7.

The objective of the well was to test the reservoir potential of the Statfjord Formation and the upper part of Lunde Formation, Upper Member, which constitutes the bulk of the reservoir over the E-structure.

An additional purpose was to determine the oil/water contact found in wells 34/4-4 and 34/7-1.

OPERATIONS:

The well was spudded 14 September 1985 by the semi-submersible rig *Vildkat*.

Drilling the well proceeded without problems.

19 cores were cut in 3 intervals. In the Statfjord Formation the oil/water contact was found to be at 2586 m, as prognosed. Cores from the Triassic Upper Lunde Formation indicate the oil/water contact to be at 2622 m.

TESTING:

3 Drill Stem Tests were performed. Two in the Statfjord Formation oil zone, and one in the Triassic oil zone.

It is important to note that oil was produced deeper than the established oil/water contact on the Snorre Field, and that the oil properties are different from those of the oil found in the wells 34/7-1 and 34/4-4.

GEOLOGICAL TOPS

WELL: 34/07-03

	Depth m (RKB)
<i>Nordland Group</i>	328,0
<i>Utsira Fm</i>	990,0
<i>Hordaland Group</i>	1133,0
<i>Rogaland Group</i>	1672,0
<i>Balder Fm</i>	1672,0
<i>Sele/Lista Fm</i>	1687,5
<i>Shetland Group</i>	1831,0
<i>Cromer Knoll Group</i>	2353,0
<i>Dunlin Group</i>	2362,5
<i>Amundsen Fm</i>	2362,5
<i>Statfjord Fm</i>	2414,0
<i>Hegre Group</i>	2514,0
<i>U-Lunde Fm</i>	2514,0
<i>M-Lunde Fm</i>	3365,0
<i>TD=</i>	3414,0