

Well no : 34/ 7-05 Operator : SAGA

Coordinates : 61 21 54.95 N UTM coord. : 6804026
 02 01 23.67 E 447777

Licence no : 89 Permit no : 448

Rig : TREASURE SAGA Rig type : SEMI-SUB.

Contractor : WILHELMSSEN OFFSHORE SERVICES

Bottom hole temperature : 80 deg.C Elev. KB : 26 M

Spud. date : 85.01.17 Water depth : 244 M

Compl. date : 85.03.16 Total depth : 3146 M

Spud. class : WILDCAT Form. at TD : TRIASSIC

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

Seisloca : SG 82 31 - 113 SP. 485

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/cm ³
CONDUCTOR	30	380.0	36	384.0	
SURF. COND.	20	913.0	26	930.0	
				1388.0	1.52
INTERM.	13 3/8	1844.0	17 1/2	1865.0	1.79
INTERM.	9 5/8	2636.0	12 1/4	3146.0	

CONVENTIONAL CORES

Core no.	Intervals cored meters		Recovery		Series
			M	%	
1	2508.0	2510.0	0.0	0.0	MIDDLE JURASSIC
2	2510.0	2520.6	10.7	97.0	MIDDLE JURASSIC
3	2521.0	2527.2	6.2	72.9	MIDDLE JURASSIC
4	2529.5	2541.7	11.5	92.0	MIDDLE JURASSIC
5	2542.0	2555.0	13.0	100.0	MIDDLE JURASSIC
6	2555.0	2571.9	17.0	94.0	MIDDLE JURASSIC
7	2573.0	2590.6	17.7	98.0	MIDDLE JURASSIC
8	2591.0	2607.4	16.4	91.0	MIDDLE JURASSIC
9	2609.0	2622.1	13.2	88.0	MIDDLE JURASSIC
10	2624.0	2631.6	7.6	84.0	M/L JURASSIC
11	2869.0	2883.5	14.5	100.0	LOWER JURASSIC

MUD PROPERTIES

Depth below KB meter	Mud weigh g/cm3	Funnel viscosity s/qt	Mud type
384.000	1.03		WATER BASED
790.000	1.10		WATER BASED
930.000	1.12		WATER BASED
1164.000	1.10		WATER BASED
1489.000	1.22		WATER BASED
1785.000	1.40		WATER BASED
1865.000	1.43	50.0	WATER BASED
1985.000	1.52	55.0	WATER BASED
2138.000	1.62	55.0	WATER BASED
2325.000	1.66	55.0	WATER BASED
2434.000	1.69	50.0	WATER BASED
2672.000	1.68	55.0	WATER BASED
2794.000	1.63	51.0	WATER BASED
2836.000	1.64	51.0	WATER BASED

DRILL STEM TEST

INTERVALS AND PRESSURES

Test no	interval meter	Choke size	Pressure (PSI)		
			WHP	BTHP	FFP
1.0	2502.500 - 2512.500	6.4	1377.5	4495.0	
2.0	2502.500 - 2512.500	9.5	1044.0	3190.0	

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	220*		0.084	0.760	120
2.0	260		0.845	0.830	150

* - OIL & WATER

DRILL BIT CUTTINGS AND WET SAMPLES

SAMPLE TYPE	INTERVAL BELOW KB	NUMBER OF SAMPLES
Cutting	390 - 3146	450
Wet Samples	390 - 3147	560

SHALLOW GAS

Interval below KB	REMARKS
	NONE

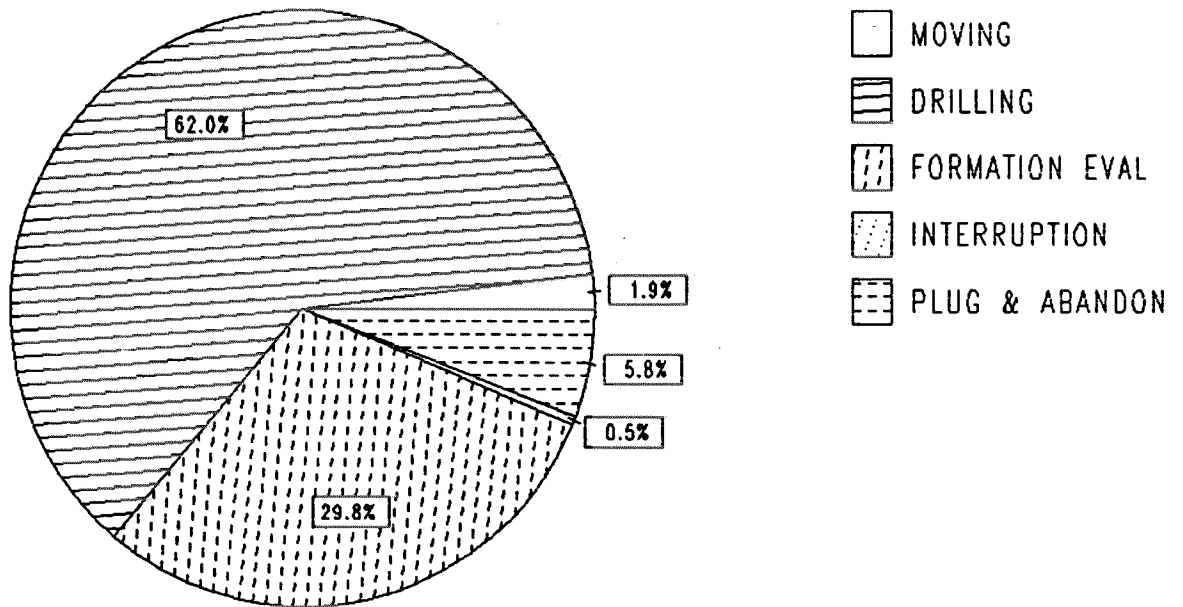
AVAILABLE LOGS

LOG TYPE	INTERVALS	1/200	1/500
DIFL BHC ACL	380 - 3146	X	X
CDL CNL GR	380 - 3146	X	X
* DLL MLL	2450 - 2749	X <==>	X
CDM AP	1842 - 3145	X	X
* SPECTRALOG	2470 - 3134	X <==>	X
FMT	2503 - 2714	X	
FMT	2500 - 3064	X	
* CBL VDL	1665 - 2577	X <==>	X
MUD	390 - 3146		X
VELOCITY	379 - 3142	1:1000	X
(+ Airgun Well Velocity Survey and Calibr. Data, 1 stk)			
(+ Two Way Travel Time, 20 cm/s, 1 stk)			
(+ Two Way Travel Time, 40 cm/s, 1 stk)			
(+ Synthetic Seismogram, Marine, 10,20,40 cm/s, 3 stk)			
(+ Synthetic Seismogram, 10,20,40 cm/s, 6 stk)			
(+ V.S.P., 10 CM/S, 9 stk)			

* - BOTH SCALES ON SAME LOG

DAILY DRILLING REPORT SYSTEM

Main operation : 34/07-05



Total : 1464 HRS

Main operation	Minutes	Hours	% of total
MOVING	1650	27.50	1.88
DRILLING	54450	907.50	61.99
FORMATION EVAL	26190	436.50	29.82
INTERRUPTION	420	7.00	0.48
PLUG & ABANDON	5130	85.50	5.84

MAIN OPERATIONS WELL : 34/07-05

MAIN OPERATION: DRILLING

Sub operations	Min	Hrs	% of total
TRIP	12480	208.00	22.92
SURVEY	120	2.00	0.22
DRILL	25620	427.00	47.05
CIRC/COND	3630	60.50	6.67
CASING	4230	70.50	7.77
WAIT	240	4.00	0.44
OTHER	4800	80.00	8.82
UNDERREAM	1320	22.00	2.42
BOP ACTIVITIES	1260	21.00	2.31
REAM	360	6.00	0.66
BOP/WELLHEAD EQ	330	5.50	0.61
PRESS DETECTION	60	1.00	0.11
TOTAL	54450	907.50	

MAIN OPERATION: MOVING

Sub operations	Min	Hrs	% of total
TRANSIT	840	14.00	50.91
ANCHOR	600	10.00	36.36
POSITION	210	3.50	12.73
TOTAL	1650	27.50	

MAIN OPERATION: FORMATION EVAL

Sub operations	Min	Hrs	% of total
LOG	3750	62.50	14.32
CORE	1290	21.50	4.93
TRIP	6330	105.50	24.17
CIRC SAMPLES	90	1.50	0.34
CIRC/COND	1200	20.00	4.58
OTHER	2460	41.00	9.39
DST	11070	184.50	42.27
TOTAL	26190	436.50	

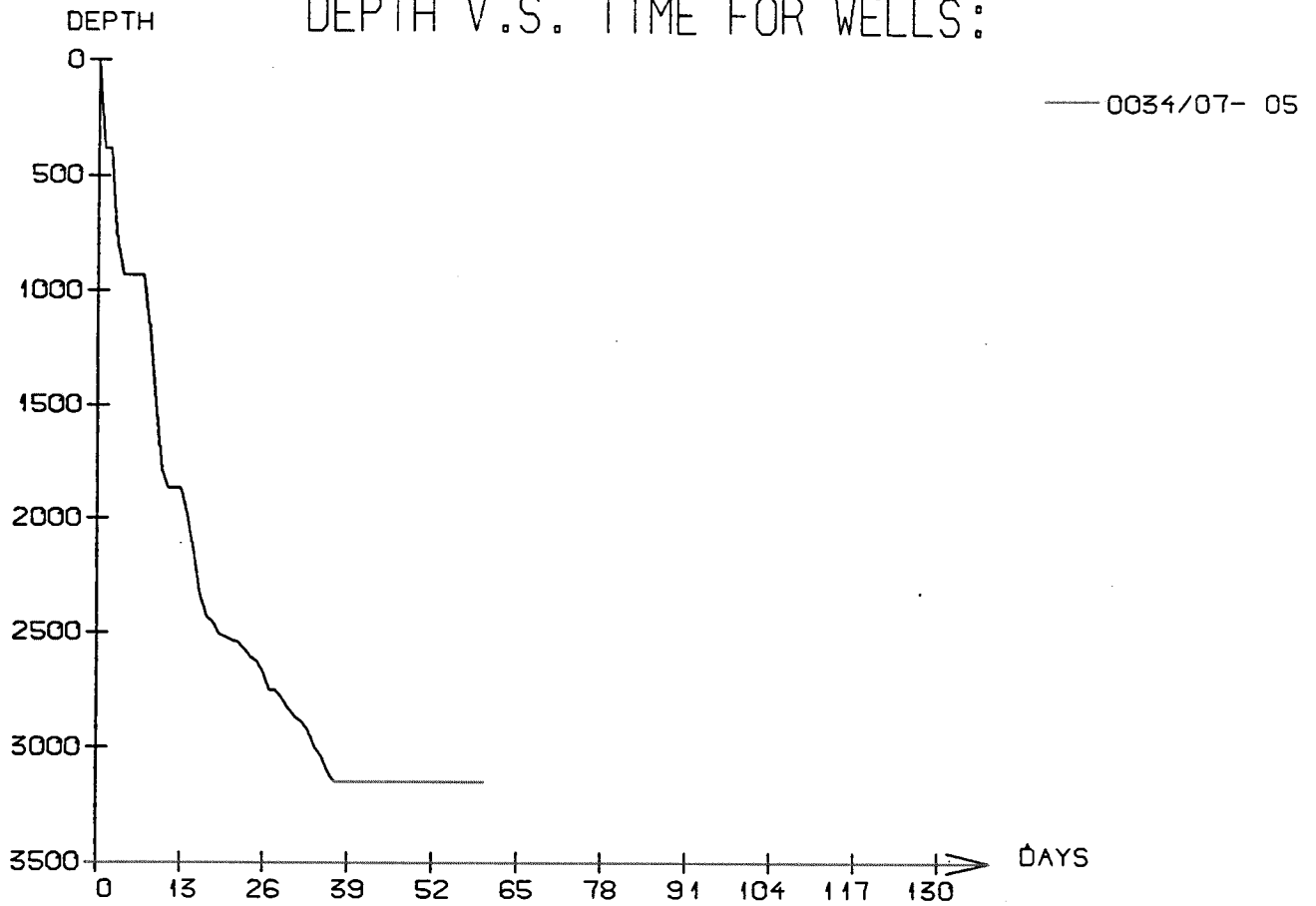
MAIN OPERATION: INTERRUPTION

Sub operations	Min	Hrs	% of total
MAINTAIN/REP	420	7.00	100.00
TOTAL	420	7.00	

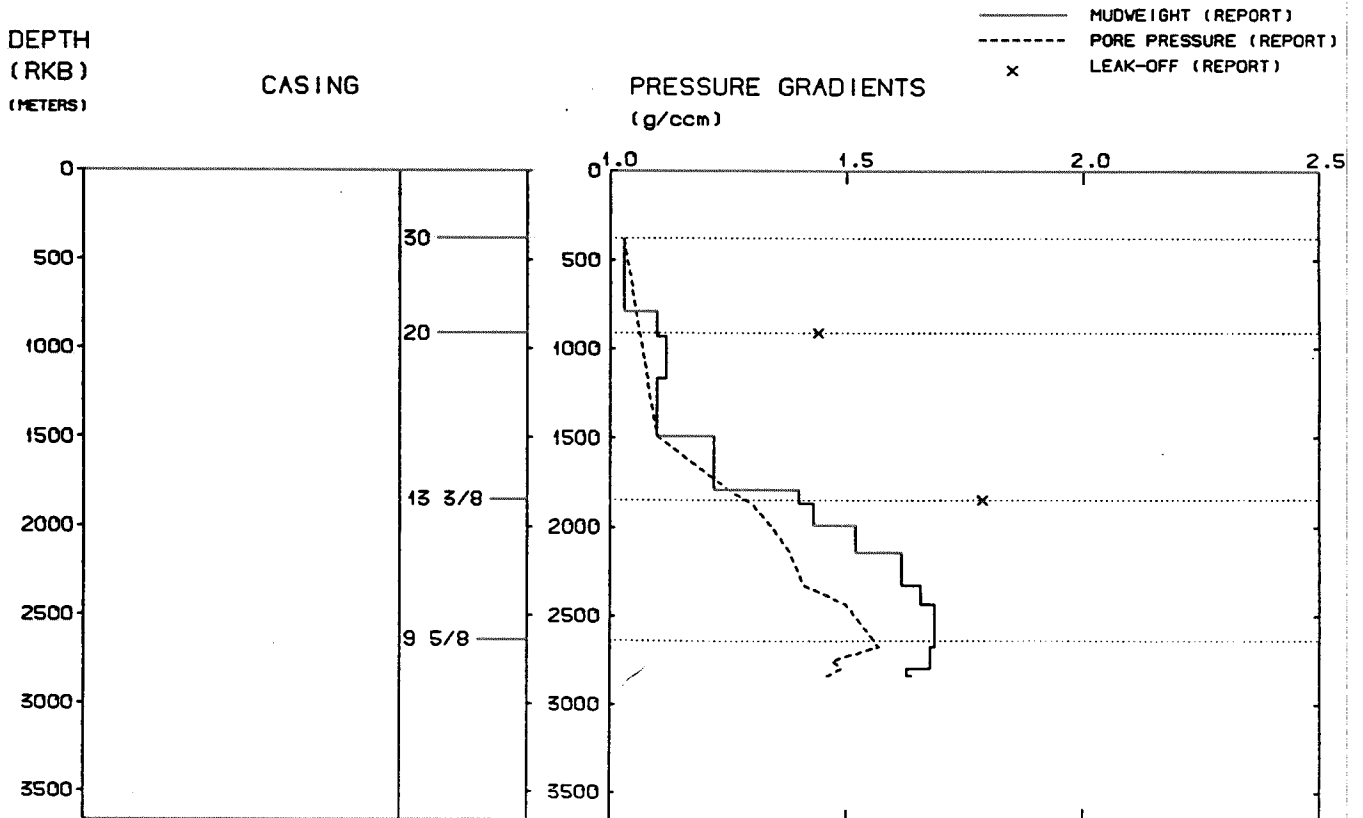
MAIN OPERATION: PLUG & ABANDON

Sub operations	Min	Hrs	% of total
TRIP	2610	43.50	50.88
OTHER	1110	18.50	21.64
CIRC/COND	120	2.00	2.34
CEMENT PLUG	600	10.00	11.70
PERFORATE	300	5.00	5.85
CUT	390	6.50	7.60
TOTAL	5130	85.50	

DEPTH V.S. TIME FOR WELLS:



WELL: 003407 05 PRESSURE COMPOSITE PLOT



WELL HISTORY 34/7-5

GENERAL:

Wildcat well 34/7-5 was drilled on the A-structure in the west of block 34/7-1

The structural setting is tilted fault blocks dipping in a westerly direction, and has a distinct NNE-SSW trend. It extends for some 13 kilometres, while being 1-2 kilometres wide.

The main objectives of the well was to test the reservoir potential of the Brent Group, and to determine whether the oil/water contact is the same as that found in Mobil well 33/9-7, drilled to the south-southwest of this well in the neighbour block, but on the assumed same structure. Furthermore the reservoir potential of the Statfjord Formation was to be tested.

OPERATIONS:

The well was spudded 17 January 1985 by the semi-submersible rig Treasure Saga.

The drilling operations proceeded without any significant problems, except for some packing off and lost circulation problems in the 12 1/4" section.

The reservoir came in approximately 60 m deeper than prognosed, and the oil/water contact is difficult to pinpoint. It is presumed to be at approximately 2520 m, and therefore in accordance with the results from Mobil well 33/9-7.

Statfjord Formation was dry in this well.

The results from this well are somewhat disappointing, and will most likely result in a reduction of the reserve estimate for the A-structure.

11 cores were cut.

TESTING:

One Drill Stem Test was performed in the Brent Group.

GEOLOGICAL TOPS

WELL: 34/07-05

	Depth m (RKB)
<i>Nordland Group</i>	270,0
<i>Utsira Fm</i>	957,0
<i>Hordaland Fm</i>	1094,0
<i>Rogaland Group</i>	1670,0
<i>Balder Fm</i>	1670,0
<i>Sele Fm</i>	1738,0
<i>Heimdal Fm</i>	1840,0
<i>Shetland Group</i>	1910,0
<i>Cromer Knoll Group</i>	2373,0
<i>Mime/Åsgård Fm</i>	2373,0
<i>Viking Group</i>	2495,5
<i>Heather Fm</i>	2495,5
<i>Brent Group</i>	2500,0
<i>Ness Fm</i>	2502,0
<i>Etive Fm</i>	2531,0
<i>Rannoch Fm</i>	2563,0
<i>Dunlin Group</i>	2620,0
<i>Drake Fm</i>	2620,0
<i>Cook Fm</i>	2693,0
<i>Burton Fm</i>	2667,5
<i>Amundsen Fm</i>	2793,5
<i>Statfjord Fm</i>	2892,5
<i>Hegre Group</i>	3010,0
<i>Lunde Fm</i>	3010,0
<i>T.D.</i>	3146,0