

Well no : 30/06-20 Operator : HYDRO

Coordinates : 60 37 20.52 N UTM coord. : 6720920 N
 02 42 18.52 E 483862 E

Licence no : 53 Permit no : 506

Rig : TREASURE SCOUT Rig type : SEMI-SUB.

Contractor : WILHELMSSEN OFFSHORE SERVICES

Bottom hole temperature : deg.C Elev. KB : 23 M

Spud. date : 86.03.10 Water depth : 111 M

Compl. date : 86.04.13 Total depth : 3042 M

Spud. class : WILDCAT Form. at TD : E.JURASSIC

Compl. class : P&A. DRY HOLE Prod. form :

Seisloca : NH 82 - 290 CENTER CELL 325

LICENSEES

10.667000 ELF AQUITAINE NORGE A/S
 12.250000 NORSK HYDRO PRODUKSJON A.S
 8.000000 MOBIL EXPLORATION NORWAY INC.
 7.350000 SAGA PETROLEUM A.S.
 56.400000 DEN NORSKE STATS OLJESELSKAP A.S
 5.333000 TOTAL NORGE 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	222.0	36	500.0	.
SURF.COND.	20	603.0	26	623.0	.
INTERM.	13 3/8	1611.0	17 1/2	2266.0	2.25

MUD PROPERTIES

Depth below KB meter	Mud weight g/cm3	Viscosity	Mud type
620.000	1.03	0.0	WATER BASED
1160.000	1.15	19.0	WATER BASED
1396.000	1.20	20.0	WATER BASED
1533.000	1.39	0.0	WATER BASED
1606.000	1.20	20.0	WATER BASED
1606.000	1.23	20.0	WATER BASED
1629.000	1.25	18.0	WATER BASED
2336.000	1.38	24.0	WATER BASED
2493.000	1.39	31.0	WATER BASED
2702.000	1.38	28.0	WATER BASED
3046.000	1.39	26.0	WATER BASED

DRILL BIT CUTTINGS AND WET SAMPLES

SAMPLE TYPE	INTERVAL BELOW KB	NUMBER OF SAMPLES
Cutting	630-3042	360
Wet Samples	630-3045	390

SHALLOW GAS

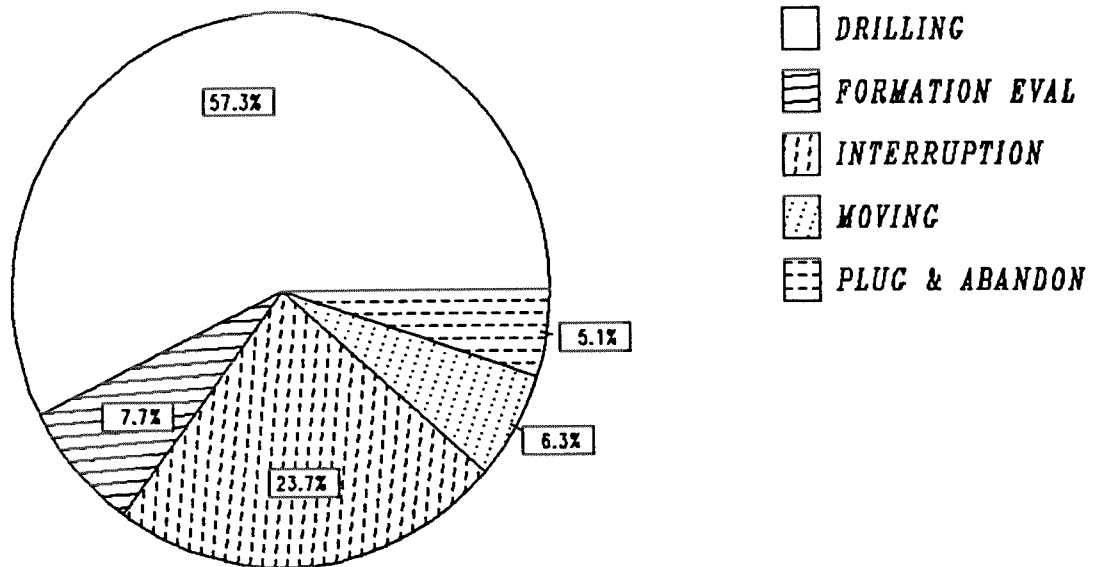
Interval below KB	REMARKS

AVAILABLE LOGS

LOG TYPE	INTERVALS	1/200	1/500	Div.
DIL LSS GR	605.000 - 1598.000	X	X	
LDL GR	605.000 - 1598.000	X	X	
SHDT GR	2220.000 - 3036.000	X		
CDM AP/MSD SHDT	2220.000 - 3036.000	X	X	
RFT-STRAIN GAUGE	2756.500 - 3022.500			
HP GAUGE	2756.000 - 3022.000			
CBL VDL GR	300.000 - 770.000	X	X	
MUD	134.000 - 3044.000			X
VELOCITY	605.000 - 3044.000			1:1000X
(Geogram, Synthetic seismogram, Norm/Rev.pol.		6 stk.)		
(VSP.Rigshot, Norm/Rev.Pol. 10 cm/s		11 stk.)		
(VSP.Composite, geogr.Displ.10-20 cm/s		8 stk.)		
(VSP.-Sat. 928-3040m.		1 stk.)		

DAILY DRILLING REPORT SYSTEM

Main operations for well : 0030/06 -20



Total : 888.00 hours

Main operation	Minutes	Hours	% of total
DRILLING	30510	508.50	57.26
FORMATION EVAL	4080	68.00	7.66
INTERRUPTION	12600	210.00	23.65
MOVING	3360	56.00	6.31
PLUG & ABANDON	2730	45.50	5.12

MAIN OPERATIONS FOR WELL : 0030 / 06 - 20

MAIN OPERATION : DRILLING

Sub operations	Minutes	Hrs	% of total
BOP ACTIVITIES	840	14.00	2.75
BOP/WELLHEAD EQ	810	13.50	2.65
CASING	4980	83.00	16.32
CIRC/COND	1110	18.50	3.64
DRILL	14940	249.00	48.97
HOLE OPEN	1080	18.00	3.54
REAM	120	2.00	0.39
SURVEY	570	9.50	1.87
TRIP	6060	101.00	19.86
Total	30510	508.50	100.00

MAIN OPERATION : FORMATION EVAL

Sub operations	Minutes	Hrs	% of total
CIRC SAMPLES	180	3.00	4.41
CIRC/COND	180	3.00	4.41
LOG	3270	54.50	80.15
TRIP	450	7.50	11.03
Total	4080	68.00	100.00

MAIN OPERATION : INTERRUPTION

Sub operations	Minutes	Hrs	% of total
MAINTAIN/REP	1050	17.50	8.33
WAIT	11550	192.50	91.67
Total	12600	210.00	100.00

MAIN OPERATION : MOVING

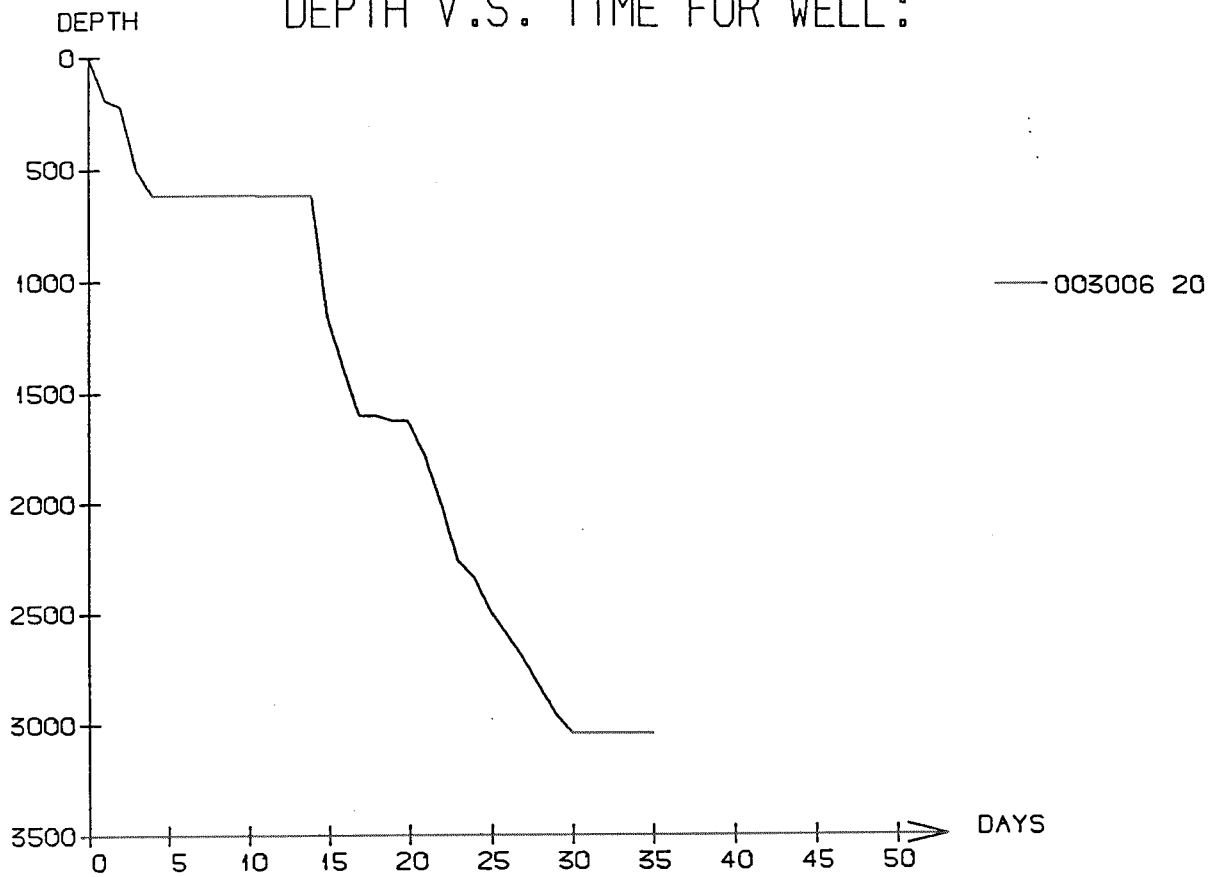
Sub operations	Minutes	Hrs	% of total
ANCHOR	1560	26.00	46.43
TRANSIT	1800	30.00	53.57
Total	3360	56.00	100.00

MAIN OPERATION : PLUG & ABANDON

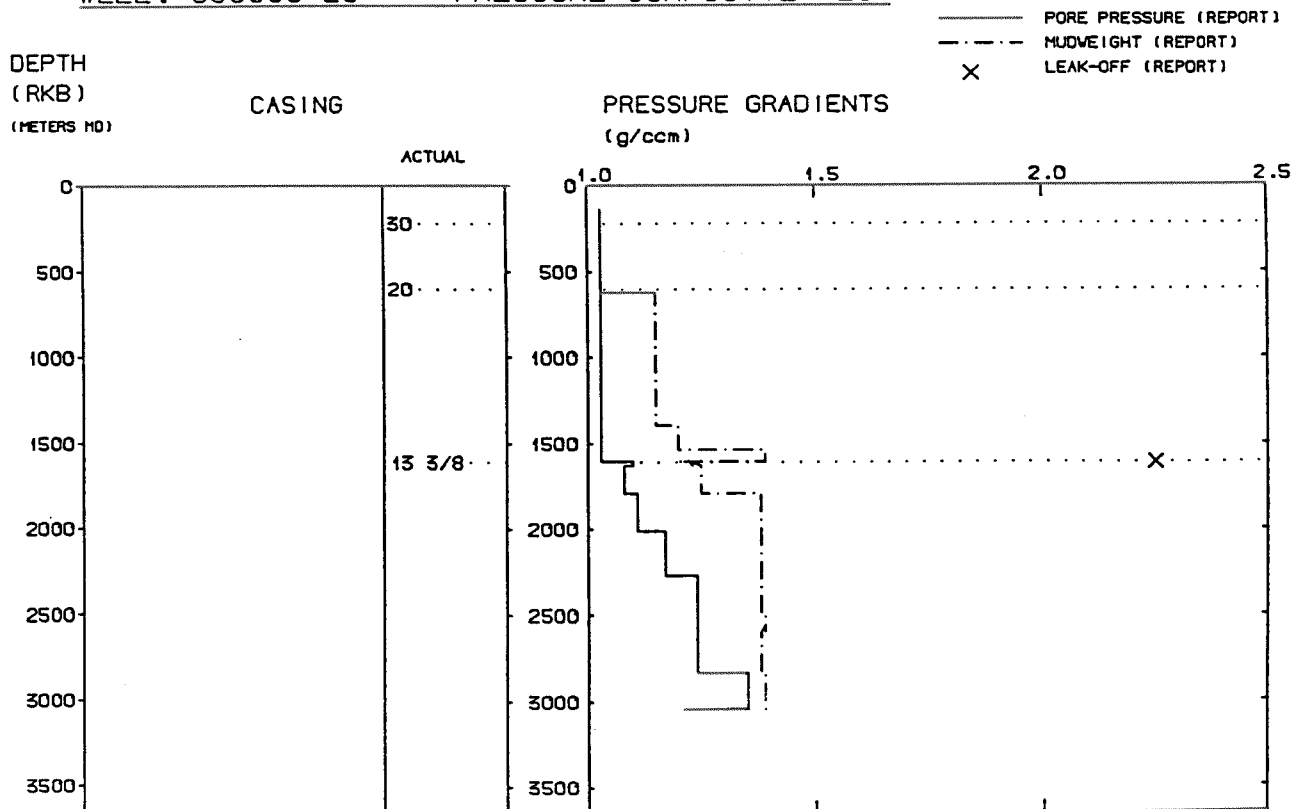
Sub operations	Minutes	Hrs	% of total
CEMENT PLUG	480	8.00	17.58
CIRC/COND	60	1.00	2.20
CUT	390	6.50	14.29
EQUIP RECOVERY	840	14.00	30.77
OTHER	300	5.00	10.99
TRIP	660	11.00	24.18
Total	2730	45.50	100.00

Total time used 888.00 hrs

DEPTH V.S. TIME FOR WELL :



WELL: 003006 20 PRESSURE COMPOSITE PLOT



Well History 30/6-20

GENERAL:

Well 30/6-20 was designed to drill the Lambda structure in the western part of block 30/6. Shallow gas was assumed at 363 m. Based on this well and others in the Oseberg area, no problems due to shallow gas were expected.

The target for well 30/6-20 was Statfjord Formation updip of well 30/6-16(Theta). The Statfjord Formation is truncated by the base Cretaceous Unconformity to the west, and to the south and east the structure is bounded by faults.

The objectives are:

- prove the hydrocarbons in the Statfjord Formation.
- drill on a location which left a minimum of reserves updip of the well in the Statfjord Fm.
- improve stratigraphical and structural knowledge of the area.
- acquire input for further exploration activity in block 30/6.

TD was planned 40 m into the Triassic Hegre Group, at a depth of approximately 3025 m RKB.

OPERATIONS:

Wildcat well 30/6-20 was spudded 10 March 1986 by Wilh Wilhelmsen semi-submersible rig Treasure Scout and completed 13 April 1986 at a depth of 3042 m in Early Jurassic rocks. Drilling proceeded without any significant problems. Shows were encountered in rocks of Tertiary and Cretaceous age, and was considered uninteresting.

Seismic reflector that was interpreted as top Statfjord Fm proved to be Cook Fm. This implies that the fault bounding to the east has a larger throw than first assumed. Both Cook- and Statfjord Fm was found waterbearing. No conventional cores were cut in this well.

Cook Fm came in at 2747 m RKB, and Statfjord Fm at 2937 m RKB.

The well was plugged and abandoned as a dry hole.

TESTING:

No DST-test was performed in this well.

GEOLOGICAL TOPS

WELL: 30/6-20

Depth m (RKB)

<i>Nordland Group</i>	134,0
<i>Utsira Fm</i>	705,0
<i>Hordaland Group</i>	922,0
<i>Skade Fm</i>	1195,0
<i>Unspecif.</i>	1402,0
<i>Grid Fm</i>	1564,0
<i>Unspecif.</i>	1670,0
<i>Rogaland Group</i>	1984,0
<i>Balder Fm</i>	1984,0
<i>Sele Fm</i>	2068,0
<i>Lista Fm</i>	2150,0
<i>Maureen Fm</i>	2267,0
<i>Shetland Group</i>	2284,0
<i>Jordsalfare Fm</i>	2284,0
<i>Kyrre Fm</i>	2557,0
<i>Dunlin Group</i>	2665,0
<i>Drake Fm</i>	2673,0
<i>Cook Fm</i>	2747,0
<i>Amundsen Fm</i>	2792,0
<i>Statfjord Fm</i>	2937,0
<i>TD.</i>	3046,0