

Well no :	35/11-4	Operator :	MOBIL
Coordinates :	61° 01' 59.93" N 03° 32' 53.58" E	UTM coord.	676678248 N 52962095 E
Licence no :	90	Permit no :	642
Rig :	YATZY	Rig type :	SEMI-SUB.
Contractor :	SEATECH OFFSHORE		
Bottom hole temp:	102 °C	Elev. KB :	17 M
Spud. date :	90.08.18	Water depth	355 M
Compl. date :	90.12.29	Total depth :	3127 M
Spud. class :	WILDCAT	Form. at TD	E.JURASSIC
Compl. class :	SUSP.	Prod.form. :	
Seisloca :	MN88 - 814 SP 440		

LICENSEES

40,000000	MOBIL DEVELOPMENT NORWAY A.S.
50,000000	DEN NORSKE STATS OLJESELSKAP A.S
10,000000	NORSK HYDRO PRODUKSJON 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	505,0	36	507,0	
INTERM.	20	1002,0	26	1005,0	1,67
INTERM.	13 3/8	1936,0	17 1/2	1940,0	1,88
INTERM.	9 5/8	2798,0	12 1/4	2800,0	

CONVENTIONAL CORES

Core no.	Intervals cored meters	Recovery	
		M	%
1	1977,0 - 1981,4	4,4	100,0
2	1982,0 - 2007,7	25,7	100,0
3	2009,0 - 2027,8	18,8	100,0
4	2033,0 - 2057,7	24,7	100,0
5	2058,0 - 2083,8	25,8	100,0
6	2285,0 - 2289,8	4,8	100,0
7	2293,0 - 2300,5	7,3	100,0
8	2303,0 - 2326,5	23,5	100,0

MUD

Depth	Mud weight	Visc.	Mud type
509,000	1,04		WATER BASED
1009,000	1,04		WATER BASED
1064,000	1,20	22,0	WATER BASED
1192,000	1,20		WATER BASED

Depth	Mud weight	Visc.	Mud type
1265,000	1,20		WATER BASED
1570,000	1,24	16,0	WATER BASED
1660,000	1,22	17,0	WATER BASED
1692,000	1,20	15,0	WATER BASED
1693,000	1,22		WATER BASED
1700,000	1,23	15,0	WATER BASED
1718,000	1,20	15,0	WATER BASED
1763,000	1,21	14,0	WATER BASED
1785,000	1,20	15,0	WATER BASED
1974,000	1,21	15,0	WATER BASED
1977,000	1,22	15,0	WATER BASED
2000,000	1,27	17,0	WATER BASED
2003,000	1,10		WATER BASED
2009,000	1,22	15,0	WATER BASED
2030,000	1,22	15,0	WATER BASED
2046,300	1,10		WATER BASED
2072,000	1,20	15,0	WATER BASED
2085,000	1,24	18,0	WATER BASED
2144,000	1,20	17,0	WATER BASED
2284,300	1,10		WATER BASED
2285,000	1,21	16,0	WATER BASED
2290,000	1,22	16,0	WATER BASED
2300,500	1,24	15,0	WATER BASED
2385,000	1,24	17,0	WATER BASED
2664,000	1,27	17,0	WATER BASED
2683,000	1,10		WATER BASED
2698,000	1,27	17,0	WATER BASED
2810,000	1,26	15,0	WATER BASED
2822,000	1,28	17,0	WATER BASED
3127,000	1,26	15,0	WATER BASED

DRILL STEM TEST

INTERVALS AND PRESSURES

Test no.	Interval meter	Choke size	Pressure (PSI) WHP	BTHP	FFP
1,0	2674,5	- 2682,0	12,4		
2,0	2284,3	- 2291,3	15,3		
3,0	2034,0	- 2046,0	18,3		
4,0	2000,0	2003,0	6,3		

Test temperature: N/A

RECOVERY

Test no.	Oil Sm3/d	Gas Sm3/d	Oil grav. g/cm3	Gas grav. rel. air	GOR m3/m3
1,0	456	77976	,810	,730	176
2,0	545	56400	,832	,653	103
3,0	682	65240	,831	,670	95,6
4,0	44	80000	,820	,650	1818

DRILL BIT CUTTINGS AND WET SAMPLES

<i>Sample type</i>	<i>Interval below KB</i>	<i>Number of samples</i>
WET SAMPLES	1010 - 3127	270

SHALLOW GAS

<i>Interval below KB</i>	<i>Remarks</i>
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AVAILABLE LOGS

<i>Log type</i>	<i>Intervals</i>	
ACBL VDL GR	906,0	- 1936,0
CBL VDL CCL GR	1900,0	- 2700,0
CPI	1975,0	- 3125,0
CZDL CN GR	1003,0	- 3130,0
DIFL BHC AC GR	1003,0	- 3130,0
DIFL LS BHC AC GR CA	1003,0	- 2044,0
DLL MLL GR	1936,0	- 3130,0
FMT	1650,0	- 2011,0
FMT	1987,0	- 3095,0
MUD	1002,0	- 2350,0
MWD	515,0	- 2630,0
MWD GR RESISTIVITY	354,0	- 3127,0
PRESSURE	1800,0	- 3000,0
SUMMARY VELOCITY VSP		
SYNTHETIC SEISMOGRAM		
TWO WAY TRAVEL TIME		
VELOCITY LOG	990,0	- 3120,0
VSP	372,0	- 3130,0
ZCDL CN GR	1936,0	- 3130,0
ZCDL GR	1003,0	- 2044,0

Main operations for well: 35/11-4**Main operation: DRILLING**

Sub operation:	Minutes:	Hours:	% of total:
BOP ACTIVITIES	6090	101,5	6,27
BOP/WELLHEAD EQ	18750	312,5	19,29
CASING	11190	186,5	11,51
CIRC/COND	300	5,0	0,31
DRILL	25230	420,5	25,96
HOLE OPEN	2250	37,5	2,31
OTHER	9285	154,8	9,55
REAM	1800	30,0	1,85
SURVEY	390	6,5	0,40
TRIP	19365	322,8	19,92
WAIT	2550	42,5	2,62
Total	97200	1620,0	100,00

Main operation: FORMATION EVAL

Sub operation:	Minutes:	Hours:	% of total:
CIRC SAMPLES	480	8,0	2,30
CIRC/COND	390	6,5	1,87
CORE	2790	46,5	13,34
LOG	6750	112,5	32,28
RFT/FIT	1890	31,5	9,04
TRIP	8610	143,5	41,18
Total	20910	348,5	100,00

Main operation: INTERRUPTION

Sub operation:	Minutes:	Hours:	% of total:
MAINTAIN/REP	83415	1390,3	86,53
WAIT	12990	216,5	13,47
Total	96405	1606,8	100,00

Main operation: MOVING

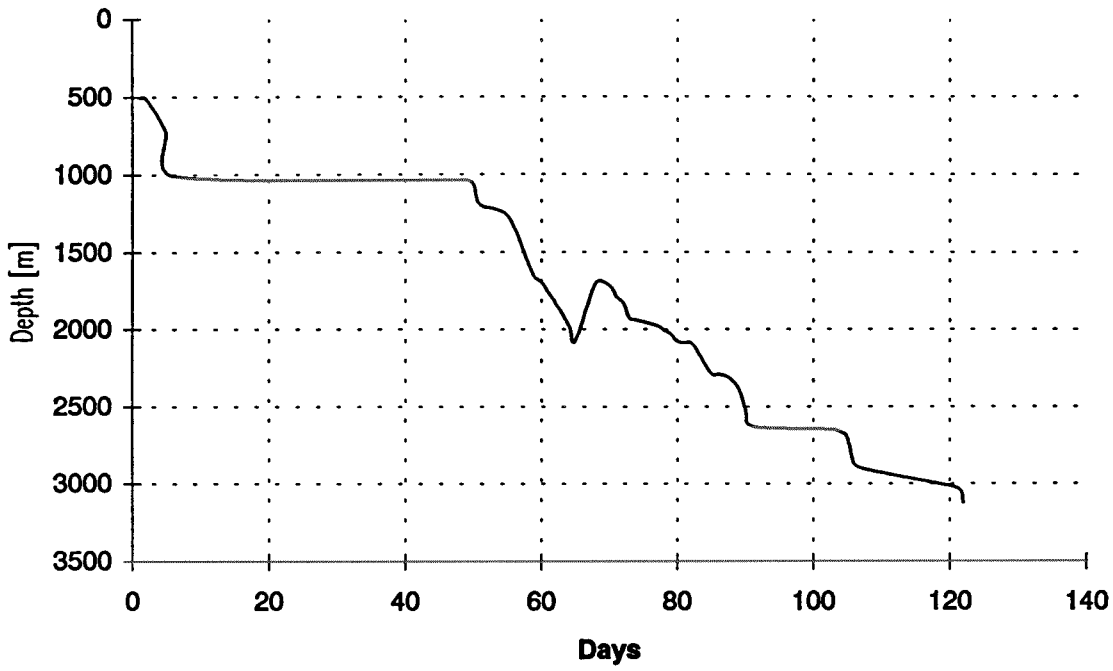
Sub operation:	Minutes:	Hours:	% of total:
POSITION	24885	414,8	69,85
TRANSIT	10740	179,0	30,15
Total	35625	593,8	100,00

Main operation: PLUG & ABANDON

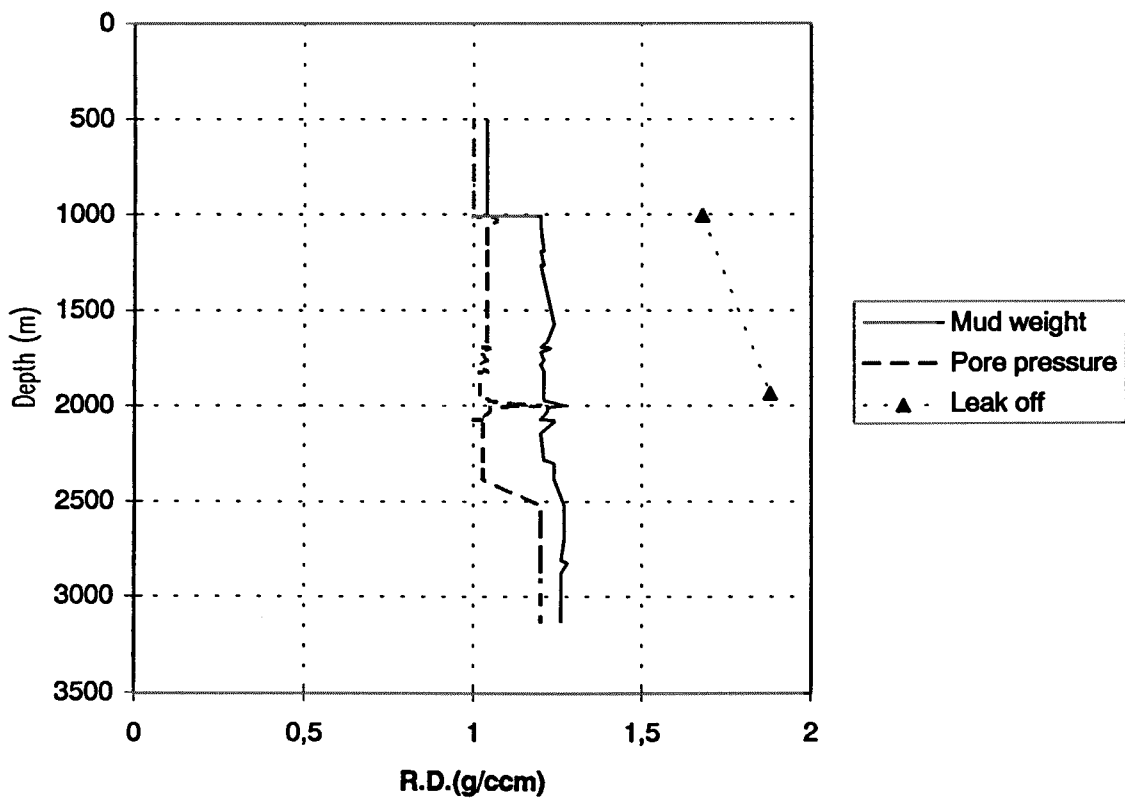
Sub operation:	Minutes:	Hours:	% of total:
CEMENT PLUG	630	10,5	13,29
EQUIP RECOVERY	1800	30,0	37,97
MECHANICAL PLUG	720	12,0	15,19
TRIP	1590	26,5	33,54
Total	4740	79,0	100,00

Total time used: Hours

Depth vs time for well: 35/11-4



Composite plot for well: 35/11-4



Well History 35/11-4.

General:

Well 35/11-4 was designed to drill at a site located in block 35/11 which is situated on the eastern flank of the Viking Graben and northwest of the Horda Platform. The regional structural grain generally trends north-south, with some north-northeast components. Significant periods of tectonism, mainly in the Middle Jurassic, caused depositional thinning, erosion and faulting. By Late Cretaceous, normal basin subsidence became the main factor controlling deposition. The well was planned to be drilled to a total depth of 3317 m RKB, which was prognosed to be near top Triassic. An amplitude anomaly at 419 m RKB might indicate shallow gas. The primary objective for 35/11-4 was the Middle Jurassic Brent Group. Reservoirs was expected in the Tarbert, Ness, Etive and Oseberg formations. Secondary there was a possibility for resevoir development in the Late Jurassic Sognefjord formation. Late Jurassic sands are expected to be well developed in the eastern part of the block, similar sands as those in the Troll Field. In addition, Paleocene sand mounds were possible targets.

Operations:

Wildcat well 35/11-4 was spudded 18 August 1990 by the semi-submersible rig Yatzy, and completed 29 Desember 1990 at a depth of 3127 m RKB in rocks of Early Jurassic age, the Statfjord formation. At a depth of 2072 m RKB one decided to sidetrack the well from 1700 m RKB in order obtain cores from the hydrocarbon bearing zones of the Sognefjord formation. A total of eigh cores were cut in this well, five in the Sognefjord Formation and three in the Fensfjord Formation. A total of 125 sidewall cores were attempted and 100 were recovered. Reservoir quality water bearing sandstones were drilled in the Paleocene. Some minor hydrocarbon shows were recorded in limestones of the Late Cretaceous Shetland Group. A total of four different hydrocarbon bearing zones were encountered in sandstones of the Sognefjord formation, the Fensfjord formation and the upper part of the Brent Group. The well was temporary plugged and abandoned as an oil/gas discovery.

Testing:

DST tests will be carried out during 1991.

Geological Tops.

Well:35/11-4

	Depth m (RKB).
Nordland Group	372,0
Utsira Fm	707,0
Hordaland Group	734,0
Rogaland Group	1397,0
Balder Fm	1397,0
Sele Fm	1448,0
Lista Fm	1561,0
Heimdal Fm. eqv.	1646,0
Lista Fm.	1710,0
Våle Fm.	1760,0
Shetland Group	1834,0
Viking Group	1966,0
Draupne Fm	1966,0
Sognefjord Fm	1984,0
Heather Fm	2116,0
Fensfjord Fm	2284,0
Heather Fm	2365,0
Brent Group	2624,0
Ness Fm	2624,0
Etive Fm	2656,0
Rannoch Fm	2686,0
Oseberg Fm	2707,0
Dunlin Group	2785,0
Drake Fm	2785,0
Cook Fm	2825,0
Amundsen Fm	2918,0
Johansen Fm	3023,0
Statfjord Fm	3082,0
T.D.	3127,0