

**General information**

Wellbore name	35/11-12
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	35/11-12
Seismic location	Crossline 2764 & Inline 1288 Survey STNH
Production licence	248
Drilling operator	Norsk Hydro Produksjon AS
Drill permit	973-L
Drilling facility	TRANSOCEAN ARCTIC
Drilling days	26
Entered date	19.04.2000
Completed date	14.05.2000
Release date	14.05.2002
Publication date	18.12.2002
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL SHOWS
Discovery wellbore	NO
Kelly bushing elevation [m]	24.0
Water depth [m]	364.0
Total depth (MD) [m RKB]	3378.0
Final vertical depth (TVD) [m RKB]	3378.0
Maximum inclination [°]	5.33
Bottom hole temperature [°C]	108
Oldest penetrated age	MIDDLE JURASSIC
Oldest penetrated formation	HEATHER FM
Geodetic datum	ED50
NS degrees	61° 7' 43.53" N
EW degrees	3° 22' 53.66" E
NS UTM [m]	6777350.06
EW UTM [m]	520555.02
UTM zone	31
NPDID wellbore	4054



Wellbore history

General

Well 35/11-12 is situated North of the Troll Field. Its main objectives were to test the presence and type of hydrocarbons in the Oxfordian turbidites in the Amanda prospect. The well was positioned to test the largest possible HC - column in the stratigraphic trap component of the Amanda prospect, with good margin to the mapped spill point. A secondary objective was to test the presence of potential Callovian turbidites.

Operations and results

Wildcat well 35/11-12 was spudded with the semi-submersible installation "Transocean Arctic" on 19 April 2000 and drilled to a total depth of 3378 m in Middle Jurassic shales of the Heather Formation. The well was drilled with spud mud down to 725 m and with water based "Glydril" mud (with glycol) from 725 m to TD. Two turbidite sequences of Kimmeridgian and Oxfordian age respectively, were penetrated. The sequences contained predominantly claystones, but comprised also thin sandstone beds of very poor reservoir quality. No fluid contacts or fluid gradients were identified from the log and pressure data.

A MDT oil sample was taken at 3211.0 m within a two-meter thick porous sandstone of the Oxfordian sequence. The reservoir pressure at the sampling point was measured to 359.23 bar. Maximum draw down during pumping was approximately 110 bar and the maximum temperature recorded was 107.5 deg C. The sample contained mostly water with some oil. One core was cut in the interval 3120 to 3146 m in the upper Oxfordian turbidite and the Heather Formation.

The well was permanently abandoned as a dry well with shows on 14 May 2000.

Testing

No drill stem test was performed

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
730.00	3377.00

Cuttings available for sampling?	YES
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Cores at the Norwegian Offshore Directorate

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	3120.0	3146.0	[m]

Total core sample length [m]	26.0
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Cores available for sampling?	YES
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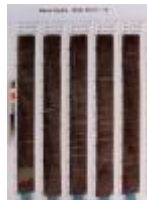
Core photos



3120-3125m



3125-3130m



3130-3135m



3135-3140m



3140-3145m



3145-3146m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
0.0	[unknown]		

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
388	NORDLAND GP
769	UTSIRA FM
880	UNDIFFERENTIATED
896	HORDALAND GP
1727	ROGALAND GP
1727	BALDER FM
1781	SELE FM
1803	LISTA FM
1986	VÅLE FM
2019	SHETLAND GP
2019	JORSALFARE FM
2095	KYRRE FM



2719	SVARTE FM
2745	CROMER KNOLL GP
2745	RØDBY FM
2786	SOLA FM
2798	MIME FM
2808	ÅSGARD FM
2878	MIME FM
2891	VIKING GP
2891	DRAUPNE FM
3130	HEATHER FM
3208	INTRA HEATHER FM SS
3213	HEATHER FM

Composite logs

Document name	Document format	Document size [MB]
4054	pdf	0.35

Geochemical information

Document name	Document format	Document size [MB]
4054_1	pdf	1.94
4054_2	pdf	1.96
4054_3	pdf	1.91
4054_4	pdf	1.95
4054_5	pdf	1.34

Documents - reported by the production licence (period for duty of secrecy expired)

Document name	Document format	Document size [MB]
4054_35_11_12_COMPLETION_LOG	.pdf	2.20
4054_35_11_12_COMPLETION_REPORT	.PDF	4.98

Logs





Log type	Log top depth [m]	Log bottom depth [m]
CST GR	2892	3378
DSI GR	2600	3380
MDT AMS GR	3124	3212
MWD - CDR	388	1760
MWD - CDR ISONIC	1760	2822
MWD - V675R GST ADN	2822	3120
MWD - V675R GST ADN	3120	3378
VSP GR	2570	3360

Casing and leak-off tests

Casing type	Casing diam. [inch]	Casing depth [m]	Hole diam. [inch]	Hole depth [m]	LOT/FIT mud eqv. [g/cm3]	Formation test type
CONDUCTOR	30	460.0	36	460.0	0.00	LOT
INTERM.	20	720.0	26	725.0	1.64	LOT
INTERM.	13 3/8	1755.0	17 1/2	1760.0	1.37	LOT
INTERM.	9 5/8	2809.0	12 1/4	2822.0	1.75	LOT
OPEN HOLE		3378.0	8 1/2	3378.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
460	1.20			WATER BASED	
500	1.20			WATER BASED	
600	1.30	19.0		WATER BASED	
725	1.30			WATER BASED	
750	1.30	19.0		WATER BASED	
850	1.30	18.0		WATER BASED	
1473	1.39	23.0		WATER BASED	
1760	1.39	20.0		WATER BASED	
1764	1.30	15.0		WATER BASED	
2212	1.30	22.0		WATER BASED	
2709	1.50	22.0		WATER BASED	
2711	1.30	20.0		WATER BASED	
2822	1.30	20.0		WATER BASED	
3050	1.46	20.0		WATER BASED	



3140	1.46	20.0		WATER BASED	
3291	1.46	22.0		WATER BASED	
3378	1.50	22.0		WATER BASED	

Thin sections at the Norwegian Offshore Directorate

Depth	Unit
3123.17	[m]
3120.92	[m]
3123.15	[m]
3124.71	[m]

Pressure plots

The pore pressure data is sourced from well logs if no other source is specified. In some wells where pore pressure logs do not exist, information from Drill stem tests and kicks have been used. The data has been reported to the NPD, and further processed and quality controlled by IHS Markit.

Document name	Document format	Document size [MB]
4054 Formation pressure (Formasjonstrykk)	pdf	0.22

