



General information

Wellbore name	35/11-10 A
Type	EXPLORATION
Purpose	APPRAISAL
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Field	FRAM
Discovery	35/11-4 Fram
Well name	35/11-10
Seismic location	MN 9201 inline 5385 xline 1871
Production licence	090
Drilling operator	Norsk Hydro Produksjon AS
Drill permit	899-L
Drilling facility	WEST VANGUARD
Drilling days	22
Entered date	23.06.1997
Completed date	14.07.1997
Release date	14.07.1999
Publication date	15.06.2005
Purpose - planned	APPRAISAL
Reentry	NO
Content	OIL SHOWS
Discovery wellbore	NO
Kelly bushing elevation [m]	22.0
Water depth [m]	353.5
Total depth (MD) [m RKB]	3259.0
Final vertical depth (TVD) [m RKB]	2889.0
Maximum inclination [°]	40.4
Bottom hole temperature [°C]	104
Oldest penetrated age	MIDDLE JURASSIC
Oldest penetrated formation	OSEBERG FM
Geodetic datum	ED50
NS degrees	61° 1' 10.54" N
EW degrees	3° 31' 26.29" E
NS UTM [m]	6765243.58
EW UTM [m]	528323.08
UTM zone	31
NPDID wellbore	3151



Wellbore history

General

Well 35/11-10 A is a sidetrack to 35/11-10, located on the western edge of the Uer Terrace, ca 9 km North of the Troll Field. It was drilled as an exploration side-track to well 35/11-10 into the down-faulted F-Southwest compartment. This compartment lies to the west of the F-East structure drilled by 35/11-10 and 35/11-4. The objectives of sidetrack 35/11-10 A were to test the presence of prospective hydrocarbons in the Sognefjord and Fensfjord Formations, and in the Brent Group.

Operations and results

Appraisal well 35/11-10 A was drilled with the semi-submersible installation West Vanguard. Kick-off was at 1180 m in well 35/11-10, on 23 June 1997. The well was drilled to TD at 3259 m (2889 m TVD RKB) in the Middle Jurassic Oseberg Formation. The deviation increased up to 38 deg. at 1564 m and was kept mostly within 38 to 40 deg. from there to TD. The well was not logged beyond 2761.4 m due to severe hole conditions. Some problems were encountered in cutting the 20" and 30" casing during abandonment. Otherwise no significant problem was encountered. The well was drilled with ANCO 2000 glycol mud from kick-off to TD.

Weak shows were recorded from 2105 m, in Late Cretaceous limestones of the Jorsalfare Formation, and in various lithologies through the Late Jurassic down to 3090 m at the base of the Heather Formation. Spotted, good shows were seen in the Ness Formation. All three target reservoirs proved water bearing. Only negligible, non-economic amounts of hydrocarbons may be present in a channel in the Ness Formation. The results were however not conclusive due to the lack of wire line logs and MDT pressure points over the actual interval (3091 m to 3137 m). No cores were cut and no fluid sample obtained in this bore hole.

The well was permanently abandoned on 23 June 1997 as dry appraisal well.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1200.00	3257.00

Cuttings available for sampling?	YES
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Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
376	NORDLAND GP



756	HORDALAND GP
1421	ROGALAND GP
1421	BALDER FM
1477	SELE FM
1625	LISTA FM
1766	HEIMDAL FM
1876	LISTA FM
1896	VÅLE FM
2004	SHETLAND GP
2004	JORSALFARE FM
2203	VIKING GP
2203	DRAUPNE FM
2293	SOGNEFJORD FM
2457	HEATHER FM
2682	FENSEFJORD FM
2824	HEATHER FM
3093	BRENT GP
3093	NESS FM
3143	ETIVE FM
3190	RANNOCH FM
3212	OSEBERG FM

Composite logs

Document name	Document format	Document size [MB]
3151_35_11_10_A	pdf	0.53

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

Document name	Document format	Document size [MB]
3151_35_11_10_A_COMPLETION_REPORT	pdf	12.77
3151_35_11_10_A_COMPOSITE_LOG	pdf	0.77

Logs





Log type	Log top depth [m]	Log bottom depth [m]
FMI DSI NGT	1150	2728
HALS MCFL TDL CNL GR AMS SP	0	0
HALS MCFL TDL CNL GR AMS SP	1150	2071
HALS MCFL TDL CNL GR AMS SP	2035	2755
MDT VSP GR AMS	1380	2720
MWD - GR RES DIR	1180	3259
VSP GR	0	0

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
OPEN HOLE		2100.0	12 1/4	2100.0	0.00	LOT
OPEN HOLE		3259.0	8 1/2	3259.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
1090	1.27	72.0	15.0	WATER BASED	
1400	1.30	79.0	18.0	WATER BASED	
2084	1.31	73.0	15.5	WATER BASED	
2870	1.31	78.0	16.0	WATER BASED	
3259	1.33	80.0	15.0	WATER BASED	

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]
3151 Formation pressure (Formasjonstrykk)	pdf	0.23

