



General information

Wellbore name	31/5-6
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	31/5-6
Seismic location	NH9453-312 N-S& NH9453-110 E-W
Production licence	191
Drilling operator	Norsk Hydro Produksjon AS
Drill permit	979-L
Drilling facility	SCARABEO 6
Drilling days	21
Entered date	05.07.2000
Completed date	25.07.2000
Release date	25.07.2002
Publication date	18.12.2002
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL SHOWS
Discovery wellbore	NO
Kelly bushing elevation [m]	26.0
Water depth [m]	328.0
Total depth (MD) [m RKB]	2370.0
Final vertical depth (TVD) [m RKB]	2368.0
Maximum inclination [°]	5.71
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	DRAKE FM
Geodetic datum	ED50
NS degrees	60° 43' 19.78" N
EW degrees	3° 21' 26.35" E
NS UTM [m]	6732053.04
EW UTM [m]	519495.40
UTM zone	31
NPDID wellbore	4128



Wellbore history

General

The objective for well 31/5-6 was to test the hydrocarbon potential of the Jurassic U-structure in PL 191 west of the Troll Field. The primary targets were to test the hydrocarbon potential of the Sognefjord and Fensfjord Formations of the Viking Group. Secondary targets were to test the hydrocarbon potential of the Brent Group and to test the possibility of hydrocarbons being present in the Våle Formation of the Rogaland Group.

Operations and results

Wildcat well 31/5-6 was spudded with the semi-submersible installation "Scarabeo 6" on 5 July 2000 and drilled to TD at 2370 m in the Early Jurassic Drake Formation. The well was drilled with spud mud down to 1201 m and with water based "Glydril" mud from 1201 m to TD. More than 400 m of upper Jurassic Viking Group sediments were penetrated in well 31/5-6 U-structure. About half of the Viking Group is composed of the sand-rich, shallow marine Sognefjord, Fensfjord and Krossfjord Formations; the remaining is assigned the Heather Formation and a very thin Draupne Formation. The potential Sognefjord and Fensfjord reservoirs were found water bearing, although weak shows were reported in the uppermost part of the Sognefjord Formation. The Brent Group was 126 m thick and consisted of the Tarbert, Ness, Etive, Rannoch and Oseberg formation equivalents. Also the Brent Group was found water bearing although weak shows were reported in the uppermost part of the Tarbert formation equivalent. No conventional cores were cut and no fluid samples were taken. The well was permanently abandoned as a dry well with shows on 25 July 2000.

Testing

No drill stem test was performed

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1210.00	2370.00

Cuttings available for sampling?	YES
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Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
354	NORDLAND GP
494	HORDALAND GP
1528	ROGALAND GP
1528	BALDER FM
1589	SELE FM



1645	LISTA FM
1761	VÅLE FM
1790	SHETLAND GP
1795	VIKING GP
1795	DRAUPNE FM
1798	SOGNEFJORD FM
1862	HEATHER FM
1955	FENSFJORD FM
2056	KROSSFJORD FM
2112	HEATHER FM
2215	BRENT GP
2336	DUNLIN GP
2336	DRAKE FM

Composite logs

Document name	Document format	Document size [MB]
4128	pdf	0.25

Geochemical information

Document name	Document format	Document size [MB]
4128_1	pdf	1.88
4128_2	pdf	1.88
4128_3	pdf	1.15

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

Document name	Document format	Document size [MB]
4128_31_5_6_COMPLETION_LOG	.pdf	0.82
4128_31_5_6_COMPLETION_REPORT	.PDF	3.81

Logs





Log type	Log top depth [m]	Log bottom depth [m]
CST GR	1775	2363
MWD - CDR	356	1709
MWD - VIS675 ADN RAB	1609	2370

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	430.0	36	430.0	0.00	LOT
INTERM.	13 3/8	1196.0	17 1/2	1201.0	1.66	LOT
INTERM.	9 5/8	1704.0	12 1/4	1709.0	1.48	LOT
OPEN HOLE		2370.0	8 1/2	2370.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
1606	0.00	13.0		WATER BASED	
1709	1.18	13.0		WATER BASED	
2075	1.18	11.0		WATER BASED	
2370	1.18	11.0		WATER BASED	