

**General information**

Wellbore name	30/6-25 S
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	30/6-25
Seismic location	NH9201-iINLINE 753 & X-LINE 1221
Production licence	053
Drilling operator	Norsk Hydro Produksjon AS
Drill permit	940-L
Drilling facility	TRANSOCEAN LEADER
Drilling days	42
Entered date	26.11.1998
Completed date	06.01.1999
Release date	06.01.2001
Publication date	11.04.2003
Purpose - planned	WILDCAT
Reentry	NO
Content	SHOWS
Discovery wellbore	NO
Kelly bushing elevation [m]	23.5
Water depth [m]	104.0
Total depth (MD) [m RKB]	2988.3
Final vertical depth (TVD) [m RKB]	2935.0
Maximum inclination [°]	28.7
Bottom hole temperature [°C]	106
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	DRAKE FM
Geodetic datum	ED50
NS degrees	60° 30' 45.16" N
EW degrees	2° 43' 15.85" E
NS UTM [m]	6708684.75
EW UTM [m]	484682.45
UTM zone	31
NPDID wellbore	3578



Wellbore history

General

The main objectives of well 30/6-25 S was to test the potential, fluid types, and reservoir quality of the Brent Group on the Kappa structure, north of the Omega Nord structure in the Oseberg Sør area. The Kappa structure is located in a down faulted position to both the Oseberg Gamma and the Omega Nord structures. The main target was the lower Brent Group, with Oseberg Formation as the main reservoir. The well should furthermore acquire vital pressure data in order to identify likely pressure cell boundaries.

Operations and results

The exploration well 30/6-25 S was spudded on 26 November 1998 with the semi-submersible installation "Transocean Leader" and drilled deviated to a TD of 2988 m (2935m TVD RKB), 63 m TVD into the Early Jurassic Drake Formation. The well was drilled water based with bentonite down to 1046 m and with &AQUACOL& KCl/polyalkylene-glycol mud from 1046 m to TD. The Oseberg Formation was thinner and of poorer reservoir quality than expected, based on log data. The log quality was considered to be good. The Brent Group was penetrated twice which reveals that the well penetrates, at least, one fault. Both Ness and Oseberg Formations were remarkably thinner than expected. Oil shows were pointed out in the lower part of Tertiary and uppermost part of the Cretaceous. In the Brent Group only weak oil shows were observed, and consequently no movable hydrocarbons were stated. The formation pressure data indicate a water gradient similar to the gradient in ORELN on northern part of the Omega Nord structure. There is a water gradient of approximately 1 g/cc throughout the Oseberg, Rannoch, Etive and LN2 (ORELN2) Formations. The relative overpressure in the ORELN2 Formations is around 30 Bar. The water pressure in the Upper Ness sands is 2-3 bar less than the water gradient interpreted in the ORELN2 Formations. In the hydrocarbon filled Upper Ness Sands in well 30/9-3 A the pressure is approximately 10 bar lower than in the ORELN2 Formations. No cores were cut in the well and no fluid samples were taken. The well was permanently plugged and abandoned as a dry well with shows on 6 January 1999.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1050.00	2990.00

Cuttings available for sampling?	YES
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Lithostratigraphy

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



595	UTSIRA FM
770	UNDIFFERENTIATED
878	HORDALAND GP
991	SKADE FM
1004	NO FORMAL NAME
1386	NO FORMAL NAME
1468	NO FORMAL NAME
2029	ROGALAND GP
2029	BALDER FM
2106	SELE FM
2149	LISTA FM
2253	VÅLE FM
2320	SHETLAND GP
2320	HARDRÅDE FM
2336	JORSALFARE FM
2526	KYRRE FM
2663	BRENT GP
2663	NESS FM
2699	ETIVE FM
2704	RANNOCH FM
2712	OSEBERG FM
2713	DUNLIN GP
2713	DRAKE FM
2830	BRENT GP
2830	NESS FM
2889	ETIVE FM
2904	RANNOCH FM
2916	OSEBERG FM
2918	DUNLIN GP
2918	DRAKE FM

Composite logs

Document name	Document format	Document size [MB]
3578	pdf	0.28

Geochemical information





Document name	Document format	Document size [MB]
3578_1	pdf	1.94
3578_2	pdf	1.74
3578_3	pdf	1.94
3578_4	pdf	1.01

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

Document name	Document format	Document size [MB]
3578_30_6_25_S_COMPLETION_REPORT	.pdf	27.86

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CST GR	2580	2966
FMI HNGS ACTS	2574	2885
HALS TLD HGNS DSI GPIT ACTS	2564	2986
MDT GR	2669	2917
MWD - DPR GR DIR	128	2988
VSP GR	1800	2980

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	189.5	36	193.0	0.00	LOT
SURF.COND.	20	1037.0	26	1044.0	0.00	LOT
INTERM.	9 5/8	2564.0	12 1/4	2575.0	1.76	LOT
OPEN HOLE		2988.0	8 1/2	2988.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
1046	1.20	32.0		WATER BASED	
1100	1.20	32.0		WATER BASED	





1614	1.45	43.0		WATER BASED	
1892	1.45	48.0		WATER BASED	
2040	1.48	44.0		WATER BASED	
2244	1.48	40.0		WATER BASED	
2371	1.48	49.0		WATER BASED	
2403	1.48	49.0		WATER BASED	
2539	1.50	49.0		WATER BASED	
2575	1.50	48.0		WATER BASED	
2578	1.35	46.0		WATER BASED	
2759	1.35	35.0		WATER BASED	
2915	1.35	40.0		WATER BASED	
2988	1.35	41.0		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]
3578 Formation pressure (Formasjonstrykk)	pdf	0.23

