



General information

Wellbore name	7/1-2 S
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	7/1-2
Seismic location	Crossline 2525- NH 0201
Production licence	271
Drilling operator	StatoilHydro Petroleum AS
Drill permit	1174-L
Drilling facility	MÆRSK GIANT
Drilling days	50
Entered date	20.03.2008
Completed date	08.05.2008
Release date	08.05.2010
Publication date	08.05.2010
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	44.0
Water depth [m]	87.0
Total depth (MD) [m RKB]	3175.0
Final vertical depth (TVD) [m RKB]	3158.0
Maximum inclination [°]	16
Bottom hole temperature [°C]	126
Oldest penetrated age	MIDDLE JURASSIC
Oldest penetrated formation	BRYNE FM
Geodetic datum	ED50
NS degrees	57° 55' 57.09" N
EW degrees	2° 4' 10.82" E
NS UTM [m]	6421722.87
EW UTM [m]	444903.98
UTM zone	31
NPDID wellbore	5793



Wellbore history

General

The 7/1-2 S Yoda well is located on the north-western margin of the Jæren High, 18 km southeast of the Varg field and 5.5 km northeast of the closest well 6/3-2. The well is located on a 4-way dip closure over a salt wall similar to the Rev discovery 13 km northwest of Yoda. The primary objective of the well was to prove commercial hydrocarbons in the Late Jurassic Ula Formation sandstones. The secondary objective was to test the Triassic prospectivity.

Operations and results

Well was spudded with the jack-up installation Mærsk Giant on 20 March 2008 and drilled to TD at 3175 m in the Middle Jurassic Bryne Formation. It was drilled slightly deviated in an S-shaped track, vertical down to ca 1600 m and below ca 2400 m with maximum deviation of 16 deg from vertical at 1893 m. Whilst drilling the 17 1/2" section from 592 to 1320 m the hole produced significant amounts of large, blocky cavings, but there were no real problems encountered during operations. The well was drilled with seawater down to 201 m, with Aquadril glycol/KCl mud from 201 to 1320 m, and with Carbo-Sea oil based mud from 1320 m to TD.

The Mandal Formation was encountered at 2848 m and was 71 m thick with very high gamma ray responses varying between 150 and 300 API. The top of the reservoir, Ula Formation, was encountered at 2945 m, 16 m shallower than prognosed, and 14 m thicker than prognosed. No shows were observed in cuttings and gas and the resistivity remained low throughout the Ula Formation indicating a water wet reservoir. The rock below the Ula Formation reservoir was prognosed to be the Triassic Skagerrak Formation. However, it turned out to be the Middle Jurassic Bryne Formation. As a result the well was TD'ed in the Bryne Formation and not as planned in the Skagerrak Formation. This was first discovered after receiving the post well biostratigraphy results.

No cores were cut and no wire line pressure or fluid samples were taken.

The well was permanently abandoned on 8 May 2008 as a dry well.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
210.00	3175.00

Cuttings available for sampling?	YES
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Palynological slides at the Norwegian Offshore Directorate



Sample depth	Depth unit	Sample type	Laboratory
610.0	[m]	DC	APT
810.0	[m]	DC	APT
910.0	[m]	DC	APT
1020.0	[m]	DC	APT
1110.0	[m]	DC	APT
1160.0	[m]	DC	APT
1180.0	[m]	DC	APT
1200.0	[m]	DC	APT
1220.0	[m]	DC	APT
1240.0	[m]	DC	APT
1260.0	[m]	DC	APT
1280.0	[m]	DC	APT
1300.0	[m]	DC	APT
1320.0	[m]	DC	APT
1340.0	[m]	DC	APT
1360.0	[m]	DC	APT
1380.0	[m]	DC	APT
1400.0	[m]	DC	APT
1420.0	[m]	DC	APT
1440.0	[m]	DC	APT
1460.0	[m]	DC	APT
1480.0	[m]	DC	APT
1500.0	[m]	DC	APT
1520.0	[m]	DC	APT
1540.0	[m]	DC	APT
1560.0	[m]	DC	APT
1580.0	[m]	DC	APT
1600.0	[m]	DC	APT
1620.0	[m]	DC	APT
1640.0	[m]	DC	APT
1660.0	[m]	DC	APT
1680.0	[m]	DC	APT
1700.0	[m]	DC	APT
1720.0	[m]	DC	APT
1740.0	[m]	DC	APT
1760.0	[m]	DC	APT
1780.0	[m]	DC	APT
1820.0	[m]	DC	APT
1840.0	[m]	DC	APT



1860.0	[m]	DC	APT
1880.0	[m]	DC	APT
1900.0	[m]	DC	APT
1920.0	[m]	DC	APT
1940.0	[m]	DC	APT
1960.0	[m]	DC	APT
1980.0	[m]	DC	APT
2000.0	[m]	DC	APT
2020.0	[m]	DC	APT
2040.0	[m]	DC	APT
2060.0	[m]	DC	APT
2080.0	[m]	DC	APT
2100.0	[m]	DC	APT
2120.0	[m]	DC	APT
2140.0	[m]	DC	APT
2160.0	[m]	DC	APT
2180.0	[m]	DC	APT
2200.0	[m]	DC	APT
2220.0	[m]	DC	APT
2240.0	[m]	DC	APT
2260.0	[m]	DC	APT
2280.0	[m]	DC	APT
2300.0	[m]	DC	APT
2320.0	[m]	DC	APT
2340.0	[m]	DC	APT
2360.0	[m]	DC	APT
2380.0	[m]	DC	APT
2420.0	[m]	DC	APT
2440.0	[m]	DC	APT
2460.0	[m]	DC	APT
2840.0	[m]	DC	APT
2850.0	[m]	DC	APT
2860.0	[m]	DC	APT
2870.0	[m]	DC	APT
2880.0	[m]	DC	APT
2890.0	[m]	DC	APT
2900.0	[m]	DC	APT
2910.0	[m]	DC	APT
2920.0	[m]	DC	APT
2930.0	[m]	DC	APT



2937.0	[m]	DC	APT
2949.0	[m]	DC	APT
2955.0	[m]	DC	APT
3126.0	[m]	DC	APT
3132.0	[m]	DC	APT
3138.0	[m]	DC	APT
3144.0	[m]	DC	APT
3150.0	[m]	DC	APT
3156.0	[m]	DC	APT
3162.0	[m]	DC	APT
3168.0	[m]	DC	APT
3175.0	[m]	DC	APT

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
130	NORDLAND GP
1280	HORDALAND GP
2212	ROGALAND GP
2212	BALDER FM
2240	SELE FM
2333	LISTA FM
2444	VÅLE FM
2462	SHETLAND GP
2462	EKOFISK FM
2480	TOR FM
2674	HOD FM
2806	CROMER KNOLL GP
2806	RØDBY FM
2828	SOLA FM
2840	ÅSGARD FM
2848	TYNE GP
2848	MANDAL FM
2919	FARSUND FM
2945	VESTLAND GP
2945	ULA FM
3122	BRYNE FM



Logs

Log type	Log top depth [m]	Log bottom depth [m]
HDIL XMAC DSL GR	2400	3172
MWD - DIR	130	201
MWD - DIR GR RES PWD	201	3173
ZDL CN GR	2870	3172
ZDL CN GR	2870	3172

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	198.0	36	201.0	0.00	LOT
SURF.COND.	20	583.0	26	592.0	1.85	LOT
INTERM.	13 3/8	1313.0	17 1/2	1320.0	1.80	LOT
INTERM.	9 5/8	2931.0	12 1/4	2937.0	2.12	LOT
OPEN HOLE		3175.0	8 1/2	3175.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
205	1.03			Water Based	
206	1.30	13.0		Water Based	
224	1.30	13.0		Water Based	
440	1.09	10.0		Water Based	
592	1.25	20.0		Water Based	
1038	1.39	19.0		Water Based	
1320	1.39	18.0		Water Based	