General information

Wellbore name	3/7-6
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	3/7-6
Seismic location	TRYM MERGE:INLINE 676-CROSSLINE 760
Production licence	147
Drilling operator	A/S Norske Shell
Drill permit	862-L
Drilling facility	MÆRSK JUTLANDER
Drilling days	54
Entered date	08.10.1996
Completed date	30.11.1996
Release date	30.11.1998
Publication date	02.04.2007
Purpose - planned	WILDCAT
Reentry	NO
Content	SHOWS
Discovery wellbore	NO
Kelly bushing elevation [m]	23.0
Water depth [m]	64.0
Total depth (MD) [m RKB]	4120.0
Final vertical depth (TVD) [m RKB]	4109.0
Maximum inclination [°]	13.3
Bottom hole temperature [°C]	130
Oldest penetrated age	LATE JURASSIC
Oldest penetrated formation	HAUGESUND FM
Geodetic datum	ED50
NS degrees	56° 25' 49.44'' N
EW degrees	4° 18' 2.98'' E
NS UTM [m]	6254881.46
EW UTM [m]	580227.12
UTM zone	31
NPDID wellbore	2891

Wellbore history

General

Well 3/7-6 is located ca 4 km east-northeast of the Trym Field close to the boarder to Denmark. The objective was to test the hydrocarbon potential of the Farsund Formation sandstones in the "Spekkhugger" prospect, a stratigraphic trap.

Operations and results

Wildcat well 3/7-6 was spudded with the semi-submersible installation Mærsk Jutlander on 8 October 1996 and drilled to TD at 4120 m in the Late Jurassic Haugesund Formation. The hole was drilled with less than 2 deg deviation down to 3370 m where deviation suddenly increased to around 10 deg with a maximum of 13.3 deg at 3750 m. Otherwise the well was drilled without significant technical problems. The mud used was seawater/spud mud down to 1105 m, Barasilc (sodium silicate) mud from 1105 m to 3425 m, and KCl/polymer mud from 3425 m to TD.

The well encountered the top Jurassic, Farsund Formation at 3439 m and the underlying Haugesund Formation at 4050 m. Four units of sandstones with good porosities were encountered between 3469 and 4050 m in the Farsund Formation. Weak to moderate hydrocarbon shows were observed in ditch cuttings and on core samples between 3621 and 4030 m, but the formations were evaluated as water bearing.

A 10.4 metre spot core was recovered from 3640 to 3650.44 m. Three segregated MDT samples were taken at 3478 m. They contained water with traces of gas.

The well was plugged and permanently abandoned on 30 November 1996 as a dry hole with shows.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1110.00	4120.00

Cuttings available for sampling?	YES

Cores at the Norwegian Offshore Directorate

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	3640.0	3650.4	[m]

Total core sample length [m]	10.4
Cores available for sampling?	YES

Core photos


3640-3645m


3645-3650m


3650-3651m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
1680.0	[m]	DC	RRI
1720.0	[m]	DC	RRI
1760.0	[m]	DC	RRI
1800.0	[m]	DC	RRI
1840.0	[m]	DC	RRI
1880.0	[m]	DC	RRI
1920.0	[m]	DC	RRI
1960.0	[m]	DC	RRI
1990.0	[m]	DC	RRI
2020.0	[m]	DC	RRI
2060.0	[m]	DC	RRI
2100.0	[m]	DC	RRI
2130.0	[m]	DC	RRI
2160.0	[m]	DC	RRI
2190.0	[m]	DC	RRI
2220.0	[m]	DC	RRI
2250.0	[m]	DC	RRI
2280.0	[m]	DC	RRI
2310.0	[m]	DC	RRI
2340.0	[m]	DC	RRI
2360.0	[m]	DC	RRI
2400.0	[m]	DC	RRI
2430.0	[m]	DC	RRI
2460.0	[m]	DC	RRI
2500.0	[m]	DC	RRI

2540.0	[m]	DC	RRI
2580.0	[m]	DC	RRI
2620.0	[m]	DC	RRI
2660.0	[m]	DC	RRI
2680.0	[m]	DC	RRI
2700.0	[m]	DC	RRI
2740.0	[m]	DC	RRI
2760.0	[m]	DC	RRI
2780.0	[m]	DC	RRI
2810.0	[m]	DC	RRI
2850.0	[m]	DC	RRI
2870.0	[m]	DC	RRI
3447.0	[m]	DC	GEOCH
3450.0	[m]	DC	GEOCH
3457.0	[m]	DC	GEOCH
3462.0	[m]	DC	GEOCH
3481.0	[m]	DC	GEOCH
3519.0	[m]	DC	GEOCH
3558.0	[m]	DC	GEOCH
3564.0	[m]	DC	GEOCH
3570.0	[m]	DC	GEOCH
3579.0	[m]	DC	GEOCH
3585.0	[m]	DC	GEOCH
3594.0	[m]	DC	GEOCH
3606.0	[m]	DC	GEOCH
3615.0	[m]	DC	GEOCH
3627.0	[m]	DC	GEOCH
3639.0	[m]	DC	GEOCH
3640.0	[m]	C	GEOCH
3642.0	[m]	C	GEOCH
3644.0	[m]	C	GEOCH
3647.0	[m]	SWC	GEOCH
3647.0	[m]	C	GEOCH
3657.0	[m]	DC	GEOCH
3666.0	[m]	DC	GEOCH
3673.0	[m]	DC	GEOCH
3675.0	[m]	DC	GEOCH
3684.0	[m]	DC	GEOCH
3693.0	[m]	DC	GEOCH
3702.0	[m]	DC	GEOCH

3711.0	[m]	DC	GEOCH
3720.0	[m]	DC	GEOCH
3729.0	[m]	DC	GEOCH
3738.0	[m]	DC	GEOCH
3747.0	[m]	DC	GEOCH
3747.0	[m]	SWC	GEOCH
3753.0	[m]	DC	GEOCH
3762.0	[m]	DC	GEOCH
3771.0	[m]	DC	GEOCH
3777.0	[m]	SWC	GEOCH
3789.0	[m]	DC	GEOCH
3798.0	[m]	DC	GEOCH
3807.0	[m]	DC	GEOCH
3816.0	[m]	DC	GEOCH
3825.0	[m]	DC	GEOCH
3834.0	[m]	DC	GEOCH
3855.0	[m]	DC	GEOCH
3864.0	[m]	DC	GEOCH
3866.0	[m]	SWC	GEOCH
3879.0	[m]	DC	GEOCH
3888.0	[m]	DC	GEOCH
3897.0	[m]	DC	GEOCH
3906.0	[m]	DC	GEOCH
3911.0	[m]	SWC	GEOCH
3915.0	[m]	DC	GEOCH
3924.0	[m]	DC	GEOCH
3933.0	[m]	DC	GEOCH
3945.0	[m]	DC	GEOCH
3950.0	[m]	DC	GEOCH
3951.0	[m]	DC	APT
3954.0	[m]	DC	APT
3954.0	[m]	DC	APT
3960.0	[m]	DC	APT
3960.0	[m]	DC	GEOCH
3966.0	[m]	DC	APT
3969.0	[m]	DC	GEOCH
3972.0	[m]	DC	APT
3975.0	[m]	DC	APT
3978.0	[m]	DC	APT
3978.0	[m]	DC	GEOCH

3984.0	[m]	DC	APT
3987.0	[m]	DC	GEOCH
3993.0	[m]	SWC	GEOCH
3993.0	[m]	DC	APT
3996.0	[m]	DC	GEOCH
3998.0	[m]	DC	APT
4005.0	[m]	DC	APT
4014.0	[m]	DC	APT
4015.0	[m]	DC	GEOCH
4023.0	[m]	DC	GEOCH
4023.0	[m]	DC	APT
4032.0	[m]	DC	APT
4032.0	[m]	DC	GEOCH
4041.0	[m]	DC	GEOCH
4041.0	[m]	DC	APT
4050.0	[m]	DC	GEOCH
4051.5	[m]	SWC	GEOCH
4053.0	[m]	DC	APT
4059.0	[m]	DC	GEOCH
4062.0	[m]	DC	APT
4068.0	[m]	DC	GEOCH
4074.0	[m]	DC	APT
4077.0	[m]	DC	GEOCH
4078.0	[m]	SWC	GEOCH
4083.0	[m]	DC	APT
4086.0	[m]	DC	GEOCH
4092.0	[m]	DC	APT
4094.5	[m]	SWC	GEOCH
4095.0	[m]	DC	GEOCH
4095.0	[m]	DC	APT
4104.0	[m]	DC	GEOCH
4110.0	[m]	DC	APT
4113.0	[m]	DC	APT
4113.0	[m]	DC	GEOCH
4120.0	[m]	DC	APT

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
87	NORDLAND GP
1413	HORDALAND GP
2839	ROGALAND GP
2839	BALDER FM
2856	SELE FM
2872	LISTA FM
2897	VÅLE FM
2921	SHETLAND GP
2921	EKOFISK FM
3036	TOR FM
3259	HOD FM
3352	CROMER KNOLL GP
3352	SOLA FM
3360	TUXEN FM
3396	ÅSGARD FM
3439	TYNE GP
3439	FARSUND FM
4050	HAUGESUND FM

Geochemical information

Document name	Document format	Document size [MB]
2891_1	pdf	0.15
2891_2	pdf	0.58
2891_3	pdf	0.30
2891_4	pdf	3.51

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

Document name	Document format	Document size [MB]
2891_3_7_6_COMPLETION_REPORT_AND_COMPLETION_LOG	pdf	42.11

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CST	3442	4109
LDL CNL FMS GR CAL	3427	4106
MDT GR	3469	3602
MDT GR	3612	3743
MWD LWD - GR RES DIR	152	4120
NGT DLL MSFL DSI CAL	3427	4118
VSP GR	2800	4120

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]
2891_Formation_pressure_(Formasjonstrykk)	pdf	0.22