

**General information**

Wellbore name	33/12-6
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	33/12-6
Seismic location	LINE MNG 42 SP.365
Production licence	037
Drilling operator	Mobil Exploration Norway INC
Drill permit	150-L
Drilling facility	NORSKALD
Drilling days	111
Entered date	02.03.1976
Completed date	21.06.1976
Release date	21.06.1978
Publication date	02.12.2014
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	25.0
Water depth [m]	139.0
Total depth (MD) [m RKB]	4612.0
Final vertical depth (TVD) [m RKB]	4612.0
Oldest penetrated age	LATE TRIASSIC
Oldest penetrated formation	LUNDE FM
Geodetic datum	ED50
NS degrees	61° 4' 36.41" N
EW degrees	1° 57' 17.76" E
NS UTM [m]	6771950.39
EW UTM [m]	443612.01
UTM zone	31
NPDID wellbore	119

**Wellbore history****General**

Well 33/12-6 was drilled on Tampen Spur in the North Sea between the Gullfaks Sør Field area and the UK border. The objective was to test a large structural feature in the southeastern part of Block 33/12, located across a major regional fault bounding the eastern flank of the Brent and Statfjord Fields. The targets were sands in the Early and Middle Jurassic sandstones of the Statfjord and Brent Groups.

Operations and results

Wildcat well 33/12-6 was spudded with the semi-submersible installation Norskald on 2 March 1976 and drilled to TD at 4612 m in the Triassic Hegre Group.

The Middle Jurassic Brent Group was encountered at 2973. Gross thickness was 312 meters. Only rare fluorescence with minor gas readings were noted in the sands. Higher gas readings encountered were associated with coal beds. Using cutoffs of 40 percent clay volume and 12.5 percent porosity, Schlumberger's coriband analysis indicates 103 meters of net sand with an average porosity of 20 percent. The coriband analysis showed the sands to be water wet with only 6 m of net pay with water saturations less than 65 percent, scattered throughout the unit. The Early Jurassic Statfjord Group sands were topped at 3721 meters. Gross thickness was 309.5 meters. Using the same cutoff parameters as for the Brent formation, log analysis indicated 149 meters of net sand with an average porosity of 16 percent and showed the sands to be water wet. Only 3 m of scattered thin zones had water saturations less than 65 percent. No shows were seen in the samples. However, the core in the Statfjord sands had residual oil saturation over the 6.51 meters recovered indicating earlier oil migration through the section.

The core was cut from 3736 m to 3744 m in the Statfjord Group. Three FIT fluid samples were acquired. One retrieved 10.2 l filtrate and formation water from 3070 m and two were seal failures (3726.5 m and 3727.5 m).

The well was permanently abandoned on 21 June 1976 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]
252.00	4612.00

Cuttings available for sampling?	YES
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Cores at the Norwegian Offshore Directorate

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	3736.0	3742.5	[m]

Total core sample length [m]	6.5
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Cores available for sampling?	YES
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Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
1290.0	[m]	DC	RRI
1308.0	[m]	DC	RRI
1356.0	[m]	DC	RRI
1380.0	[m]	DC	RRI
1398.0	[m]	DC	RRI
1416.0	[m]	DC	RRI
1446.0	[m]	DC	RRI
1464.0	[m]	DC	RRI
1506.0	[m]	DC	RRI
1536.0	[m]	DC	RRI
1554.0	[m]	DC	RRI
1584.0	[m]	DC	RRI
1614.0	[m]	DC	RRI
1644.0	[m]	DC	RRI
2373.0	[m]	DC	RRI
2403.0	[m]	DC	RRI
2433.0	[m]	DC	RRI
2463.0	[m]	DC	RRI
2493.0	[m]	DC	RRI
2523.0	[m]	DC	RRI
2553.0	[m]	DC	RRI
2583.0	[m]	DC	RRI
2610.0	[m]	DC	RRI
2643.0	[m]	DC	RRI
2664.0	[m]	DC	RRI

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
164	NORDLAND GP
845	UTSIRA FM
900	HORDALAND GP
1775	ROGALAND GP



1775	BALDER FM
1827	SELE FM
2028	SHETLAND GP
2670	VIKING GP
2670	HEATHER FM
2973	BRENT GP
2973	TARBERT FM
3035	NESS FM
3216	ETIVE FM
3250	RANNOCH FM
3285	DUNLIN GP
3285	DRAKE FM
3397	COOK FM
3440	BURTON FM
3565	AMUNDSEN FM
3721	STATFJORD GP
4030	HEGRE GP

Geochemical information

Document name	Document format	Document size [MB]
119_GCH_1	pdf	0.40
119_GCH_2	pdf	0.27
119_GCH_3	pdf	1.42

Documents - older Norwegian Offshore Directorate WDSS reports and other related documents

Document name	Document format	Document size [MB]
119_01_WDSS_General_Information	pdf	0.28

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

Document name	Document format	Document size [MB]
119_33_12_6_Completion_log	pdf	2.69
119_33_12_6_Completion_Report	pdf	3.58





Logs

Log type	Log top depth [m]	Log bottom depth [m]
CDM	2624	3806
CDM AP	2624	3806
DLL MSFL	2940	4102
FDC CNL	1817	4616
ISF SON	239	4615
VELOCITY	239	4117

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	241.0	36	241.0	0.00	
SURF.COND.	20	470.0	26	484.0	0.00	
INTERM.	13 3/8	1824.0	17 1/2	1835.0	0.00	
INTERM.	9 5/8	2625.0	12 1/4	2631.0	0.00	
OPEN HOLE		4614.0	8 1/2	4614.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
484	1.01	40.0		waterbased	
1764	1.19	49.0		waterbased	
2062	1.24	47.0		waterbased	
2795	1.49	45.0		waterbased	
3914	1.50	45.0		waterbased	
4612	1.47	54.0		waterbased	