



General information





Wellbore name	15/9-22
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	15/9-22
Seismic location	inline 1080-crossline 1336(EM01-MR01 3D)
Production licence	241
Drilling operator	ExxonMobil Exploration and Production Norway AS
Drill permit	1101-L
Drilling facility	OCEAN VANGUARD
Drilling days	72
Entered date	01.01.2006
Completed date	13.03.2006
Release date	13.03.2008
Publication date	15.08.2008
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	22.0
Water depth [m]	107.0
Total depth (MD) [m RKB]	3923.0
Final vertical depth (TVD) [m RKB]	3918.0
Maximum inclination [°]	9
Bottom hole temperature [°C]	142
Oldest penetrated age	TRIASSIC
Oldest penetrated formation	SKAGERRAK FM
Geodetic datum	ED50
NS degrees	58° 20' 42.41" N
EW degrees	1° 40' 55.12" E
NS UTM [m]	6468037.00
EW UTM [m]	422842.96
UTM zone	31
NPDID wellbore	5174

**Wellbore history**

Well 15/9-22 is located just south of the Sleipner Vest field in the South Viking Graben of the North Sea. The primary objective of the well was to test the hydrocarbon potential of the Wishbone NE prospect, which was a stratigraphic pinch out trap. The key risks for the prospect were reservoir adequacy (Hugin Formation) and lateral seal. The primary reservoir target was the Upper Hugin Formation (Middle Jurassic Vestland Group), with Middle Jurassic Lower Hugin Formation, Sleipner Formation and Triassic as secondary targets. The anticipated hydrocarbon type was gas with condensate.

Operations and results

Well 15/9-22 was spudded with the semi-submersible installation Ocean Vanguard on 1 January 2006 and drilled to TD at 3915 m (3923 m logger's depth), 167 m into the Triassic Skagerrak Formation. A 36" hole was drilled and 30" conductor was successfully run and cemented at 201 m. Due to the probability of shallow gas, a 26" hole was drilled to 508 m and a 20"x18 5/8" casing string set at 204 m. The BOP and riser were run and tested after considerable delays for repairs and waiting on weather. The 17 1/2" hole was drilled to 1531 m, and no shallow gas was seen. The 13 5/8" surface casing was run and became stuck at a depth of 953 m. The casing was cut and fished out of hole from 601 m and a kick-off plug set from 592 m to inside of the 18 5/8" casing at 410 m. The hole was sidetracked (15/9-22 T2) at 522 m on Jan 31 2006, and the new hole was drilled to TD without further significant problems. The well was drilled with seawater down to 508 m and with Glydril KCl mud from 508 m to TD.

The lithostratigraphic tops below 410 m, as given on this fact page, are from the sidetrack. The Hugin Formation was encountered at 3572 m. It was 141 m thick, of which 40 m had average porosity of 18.1%. From wire line interpretation possible residual hydrocarbon saturation was reported in the uppermost porosity intervals in the Hugin Formation, but otherwise the only hydrocarbon indication in the well was a strong hydrocarbon odour from a cuttings sample from 3408 m in the Draupne Formation. MDT pressures were taken. A dry hole case logging program was performed. No conventional cores or sidewall cores were taken.

The well was permanently abandoned on 13 March 2006 as a dry well.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
510.00	3915.00

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

Sample depth	Depth unit	Sample type	Laboratory
1980.0	[m]	DC	FUGRO
2040.0	[m]	DC	FUGRO
2080.0	[m]	DC	FUGRO
2200.0	[m]	DC	FUGRO



2250.0	[m]	DC	FUGRO
2350.0	[m]	DC	FUGRO
2400.0	[m]	DC	FUGRO
2450.0	[m]	DC	FUGRO
2500.0	[m]	DC	FUGRO
2600.0	[m]	DC	FUGRO
2620.0	[m]	DC	FUGRO
2710.0	[m]	DC	FUGRO
2770.0	[m]	DC	FUGRO
3411.0	[m]	DC	FUGRO
3450.0	[m]	DC	FUGRO
3501.0	[m]	DC	FUGRO
3537.0	[m]	DC	FUGRO
3552.0	[m]	DC	FUGRO
3564.0	[m]	DC	FUGRO
3576.0	[m]	DC	FUGRO
3615.0	[m]	DC	FUGRO
3627.0	[m]	DC	FUGRO
3642.0	[m]	DC	FUGRO
3699.0	[m]	DC	FUGRO
3726.0	[m]	DC	FUGRO
3747.0	[m]	DC	FUGRO
3806.0	[m]	DC	FUGRO
3865.0	[m]	DC	FUGRO
3874.0	[m]	DC	FUGRO
3900.0	[m]	DC	FUGRO
3915.0	[m]	DC	FUGRO

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
129	NORDLAND GP
877	UTSIRA FM
1114	HORDALAND GP
1443	SKADE FM
1477	NO FORMAL NAME
1975	GRID FM
2236	NO FORMAL NAME
2355	ROGALAND GP



2355	BALDER FM
2398	SELE FM
2453	LISTA FM
2509	HEIMDAL FM
2702	LISTA FM
2794	SHETLAND GP
2794	EKOFISK FM
2838	TOR FM
3036	HOD FM
3211	BLODØKS FM
3323	CROMER KNOLL GP
3323	RØDBY FM
3400	VIKING GP
3400	DRAUPNE FM
3548	HEATHER FM
3572	VESTLAND GP
3572	HUGIN FM
3713	SLEIPNER FM
3756	NO GROUP DEFINED
3756	SKAGERRAK FM

Geochemical information

Document name	Document format	Document size [MB]
5174 01 15 9 22 gch transfer 1	txt	0.00
5174 02 15 9 22 gch results 1	txt	0.15
5174 1	pdf	3.77

Logs

Log type	Log top depth [m]	Log bottom depth [m]
DSI MDT GR ACTS ECRD	1980	3923
LWD - GR MPR	508	1531
LWD - GR MPR	605	1523
LWD - GR MPR ORD CCN	1523	3915
VSI	500	3915



**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	201.0	36	205.0	0.00	LOT
SURF.COND.	18 5/8	504.0	26	508.0	1.58	LOT
INTERM.	13 5/8	1517.0	17 1/2	1523.0	1.89	LOT
INTERM.	9 5/8	2942.0	12 1/4	2948.0	2.03	LOT
OPEN HOLE		3915.0	8 1/2	3915.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
205	1.04			WBM	
508	1.04			WBM	
860	1.20	20.0		WBM	
1308	1.25	23.0		WBM	
1523	1.25	23.0		WBM	
1531	1.20	11.0		WBM	
2860	1.28	22.0		WBM	
2948	0.00			WBM	
3261	1.35	22.0		WBM	
3915	0.00			WBM	