



General information

Wellbore name	25/6-4 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	25/6-4
Seismic location	inline 4469 & crossline 3040
Production licence	414
Drilling operator	Det norske oljeselskap ASA
Drill permit	1331-L
Drilling facility	SONGA DELTA
Drilling days	37
Entered date	10.01.2012
Completed date	15.02.2012
Release date	15.02.2014
Publication date	15.02.2014
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	29.0
Water depth [m]	114.0
Total depth (MD) [m RKB]	2950.0
Final vertical depth (TVD) [m RKB]	2738.0
Maximum inclination [°]	46.5
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	DUNLIN GP
Geodetic datum	ED50
NS degrees	59° 41' 10.27" N
EW degrees	2° 53' 1.23" E
NS UTM [m]	6616623.05
EW UTM [m]	493449.99
UTM zone	31
NPDID wellbore	6507



Wellbore history

General

Well 25/6-4S was drilled on the southern tip of the Bjørgvin Arch, between the Stord Basin and the Heimdal Terrace in the North Sea. The objective was to test the hydrocarbon potential of the Late Paleocene Hermod Formation as primary target, and the Jurassic Vestland Group as secondary target in the Kalvklumpen prospect.

Operations and results

Wildcat well 25/6-4S was spudded with the semi-submersible installation Songa Delta on 10 January 2012 and drilled to TD at 2950 m (2738 m TVD) in the Early Jurassic Dunlin Group. A 9 7/8" pilot hole was drilled from 202 m to 1344 m to check for hallow gas. No indication of shallow gas was seen. The well was drilled vertical down to ca 1900 m and deviated from there, reaching a deviation of ca 46 deg at TD. Operations proceeded without significant problems. The well was drilled with seawater and hi-vis pills down to 202 m, with KCl/polymer mud from 202 m to 1344 m, with Aquadril mud from 1344 m to 2009 m and CarboSea Oil Based Mud from 2009 m to TD.

The main target, the Hermod Formation, was encountered at 2071 (2069 m TVD) with average porosity of 35.9% and net-gross of 87.5% based on petrophysical evaluation of logs. The secondary objective, the Vestland Group, came in at 2810 m (2670 m TVD). Both Hugin and Sleipner formations had sandstones with good reservoir properties, but with lower net-gross. The better formation was Sleipner with a porosity of 23.7% and a net-gross value of 47.3%. Both potential reservoir targets were found to be water bearing. Weak shows were reported at a few depths both within the Hermod Formation, possibly due to the oil based mud, and in the Sleipner Formation in the vicinity of coal layers. In general, the total gas was low through the entire well, with very low to no content of heavier hydrocarbons.

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

The well was permanently abandoned on 15 February 2012 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]
1350.00	2950.00

Cuttings available for sampling?	YES
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Lithostratigraphy



Top depth [mMD RKB]	Lithostrat. unit
144	NORDLAND GP
657	UTSIRA FM
1051	HORDALAND GP
1197	SKADE FM
2001	ROGALAND GP
2001	BALDER FM
2041	SELE FM
2071	HERMOD FM
2141	LISTA FM
2219	VÅLE FM
2253	TY FM
2293	VÅLE FM
2341	SHETLAND GP
2413	HARDRÅDE FM
2760	VIKING GP
2760	DRAUPNE FM
2798	HEATHER FM
2810	VESTLAND GP
2810	HUGIN FM
2841	SLEIPNER FM
2899	DUNLIN GP

Logs

Log type	Log top depth [m]	Log bottom depth [m]
MWD - DIR	143	202
MWD - DIR RES GR ECD SON	202	2009
MWD - DIR RES GR ECD SON NEU DEN	2009	2950

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	197.0	36	202.0	0.00	LOT
SURF.COND.	13 3/8	1337.0	17 1/2	1344.0	0.00	LOT
PILOT HOLE		1344.0	9 7/8	1344.0	0.00	LOT



INTERM.	9 5/8	2008.0	12 1/4	2009.0	0.00	LOT
OPEN HOLE		2950.0	8 1/2	2950.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
176	1.40			spud mud	
202	1.03			Spud mud	
202	1.40			spud mud	
602	1.03			Spud mud	
858	1.49			kill mud	
1344	1.19	8.0		KCL polymer kill mud	
1553	1.34	18.0		Aquadrill WBM	
2009	1.37	21.0		Aquadrill WBM	
2265	1.24	25.0		CarboSea OBM	
2921	1.24	18.0		CarboSea OBM	
2950	1.24	16.0		CarboSea OBM	