

**General information**

Wellbore name	25/10-13 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	25/10-13
Seismic location	MC3D-SVG11_Sharp reflection inline 8485 & xline 9327
Production licence	571
Drilling operator	Suncor Energy Norge AS
Drill permit	1580-L
Drilling facility	BORGLAND DOLPHIN
Drilling days	27
Entered date	22.05.2015
Completed date	19.06.2015
Release date	19.06.2017
Publication date	19.06.2017
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	31.0
Water depth [m]	119.0
Total depth (MD) [m RKB]	2925.0
Final vertical depth (TVD) [m RKB]	2746.0
Maximum inclination [°]	29.8
Bottom hole temperature [°C]	102
Oldest penetrated age	TRIASSIC
Oldest penetrated formation	HEGRE GP
Geodetic datum	ED50
NS degrees	59° 9' 42.52" N
EW degrees	2° 14' 23.67" E
NS UTM [m]	6558469.10
EW UTM [m]	456534.48
UTM zone	31
NPDID wellbore	7704



Wellbore history

General

Well 25/10-13 S was drilled to test three prospective targets on the west flank of the Utsira High, west of the Balder and Grane fields in the North Sea. The primary exploration targets for the well were the Paleocene Ty formation (Havfrue prospect) and the Late Jurassic Intra Draupne Formation sandstone (Fomle Prospect). The secondary exploration target was to prove petroleum in Early Triassic reservoir rocks (Kong Triton Prospect).

Operations and results

Wildcat well 25/10-13 S was spudded with the semi-submersible installation Borgland Dolphin on 22 May 2015 and drilled to TD at 2925 m (2746 m TVD) m in Early Triassic sediments of the Hegre Group. A 9 7/8" Pilot Hole was initially drilled to a depth of 1076 m. No shallow gas was observed. The well was drilled directionally with a sail angle of approximately 28° through the 12 1/4" and 8 1/2" sections (1076 m to TD). While drilling out the 9 5/8" casing shoe, the drill string became stuck and 50 tons maximum overpull was recorded to free the string. Simultaneous mud losses totalling 23 m³ was recorded. Logging at 8 1/2" TD was interrupted due to short-circuit in the cable. 1300 m of cable had to be cut before re-splicing the cable head and continuing the run. The well was drilled with seawater and hi-vis sweeps down to 1070 m and with XP-07 oil based mud from 1070 m to TD.

The well encountered a 35-metre thick layer of sandstone in the Ty formation. The Late Jurassic sandstones were not present in the well. Instead, a 81 meter thick (70.8 m TVD) Early Jurassic Statfjord Group was encountered underlying the BCU at 2474 m. Petrophysical analysis indicated 49.9 m TVD of net Statfjord Sandstone. Both primary targets had good reservoir quality. The well also penetrated 370 m of the Hegre Group. Petrophysical interpretation of the logging data recorded a gross Hegre reservoir interval of 30.8 m (27.2 m TVD), with 9.0 m TVD of net sand. All targets were water wet. No oil shows were recorded in any section of the well.

No cores were cut. No fluid sample was taken.

The well was permanently abandoned on 19 June 2015 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]
1080.00	2925.00

Cuttings available for sampling?	YES
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Lithostratigraphy



Top depth [mMD RKB]	Lithostrat. unit
150	NORDLAND GP
554	UTSIRA FM
1000	HORDALAND GP
1184	SKADE FM
1282	HORDALAND GP
1452	GRID FM
1470	HORDALAND GP
1948	ROGALAND GP
1948	BALDER FM
2011	SELE FM
2103	LISTA FM
2136	HEIMDAL FM
2192	LISTA FM
2211	VÅLE FM
2362	TY FM
2405	SHETLAND GP
2405	TOR FM
2430	HOD FM
2450	TRYGGVASON FM
2475	STATFJORD GP
2555	HEGRE GP

Logs

Log type	Log top depth [m]	Log bottom depth [m]
AIT GPIT MSIP PPC PEX HNGS XPT G	150	2928
LWD - ABG GP EWRP4 DGR PWD ALD C	2034	2924
LWD - ABG PCDC GP DGR EWRP4 PWD	1075	2035
LWD - DGR EWR P4 PWD XBAT DIR	150	1074
LWD - DGR PWR DIR	234	1063
LWD - DIR	150	215
MSCT	2166	2906
VSI4	923	2920

**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	227.0	36	234.0	0.00	
INTERM.	13 3/8	1069.5	17 1/2	1076.0	1.90	LOT
PILOT HOLE		1076.0	9 7/8	1076.0	0.00	
INTERM.	9 5/8	2030.0	12 1/4	2035.5	1.62	LOT
OPEN HOLE		2925.0	8 1/2	2925.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
150	1.39	20.0		XP-07	
170	1.49	20.0		Displacement-/ Kill mud	
260	1.02			Sea water	
400	1.34	14.0		Displacement-/ Kill mud	
1035	1.39	15.0		XP-07	
1076	1.34	20.0		Displacement-/ Kill mud	
1387	1.39	19.0		XP-07 OBM 1.40 sg	
1635	1.39	18.0		XP-07 OBM 1.40sg	
2035	1.24	10.0		XP-07 OBM 1.25 sg	
2035	1.39	17.0		XP-07 OBM 1,40 Sg	
2318	1.24	11.0		XP-07 OBM 1.25 sg	
2437	1.24	14.0		XP-07 1.25 sg	
2925	1.24	11.0		XP-07	