



General information





Wellbore name	25/6-5 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
Discovery	25/6-5 S (Skirne Øst)
Well name	25/6-5
Seismic location	TO1301MR01-PSTM
Production licence	627
Drilling operator	Total E&P Norge AS
Drill permit	1565-L
Drilling facility	LEIV EIRIKSSON
Drilling days	29
Entered date	13.03.2015
Completed date	10.04.2015
Release date	10.04.2017
Publication date	10.04.2017
Purpose - planned	WILDCAT
Reentry	NO
Content	GAS/CONDENSATE
Discovery wellbore	YES
1st level with HC, age	MIDDLE JURASSIC
1st level with HC, formation	HUGIN FM
Kelly bushing elevation [m]	25.0
Water depth [m]	120.0
Total depth (MD) [m RKB]	2520.0
Final vertical depth (TVD) [m RKB]	2391.0
Maximum inclination [°]	35.2
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	DUNLIN GP
Geodetic datum	ED50
NS degrees	59° 35' 27.12" N
EW degrees	2° 45' 39.45" E
NS UTM [m]	6606026.22
EW UTM [m]	486501.87
UTM zone	31
NPDID wellbore	7662



Wellbore history

General

Well 25/6-5 S was drilled to test the Skirne East prospect on the northern part of the Utsira High in the North Sea. The primary objective was to prove hydrocarbon presence, determine fluid nature and evaluate reservoir characteristics in the Hugin Formation, Middle Jurassic age. The reservoir was expected mainly sandy with good reservoir characteristics.

Operations and results

Wildcat well 25/6-5 S was spudded with the semi-submersible installation Leiv Eiriksson on 13 March 2015 and drilled to TD at 2520 m (2391 m TVD) m in the Early Jurassic Dunlin Group. No significant problem was encountered during drilling. During P&A heavy vibrations, pressure drops and erratic torque occurred when cutting wellhead and housing.

Lower section of cutter assembly was lost in hole. Anchored lines were disconnected prior to run a second cutter assembly. Same issues were encountered and finally a section of the BHA was lost in hole. It was decided to leave location and retrieve wellhead later with a vessel. The well was drilled with seawater and hi-vis pills down to 218 m, with Glydril mud from 218 m to 2378 m, and with KCl/polymer mud from 2378 m to TD.

Top Hugin Formation is at 2458 (2332 m TVD) and contain a 37 m thick sandy reservoir, gas/condensate bearing. A gas-water contact was established at 2468 m (2341 m TVD). No shows are recorded in the well other than in the hydrocarbon bearing Hugin reservoir.

No cores were cut and no fluid sample was taken in the well. LWD pressure measurements indicate that the water leg is 36.6 bar depleted compared to the initial aquifer pressure documented in the 25/5-3 (Skirne) exploration due to production from the Skirne Field.

The well was permanently abandoned on 10 April 2015 as a gas/condensate discovery. Recovery of the PGB and removal of the wellhead was achieved during 7-8 May 2015 by the LWI vessel Island Vanguard.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1211.00	2515.00

Cuttings available for sampling?	YES
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Lithostratigraphy



Top depth [mMD RKB]	Lithostrat. unit
145	NORDLAND GP
575	UTSIRA FM
958	HORDALAND GP
2056	ROGALAND GP
2056	BALDER FM
2114	SELE FM
2174	LISTA FM
2289	TY FM
2367	SHETLAND GP
2387	CROMER KNOLL GP
2414	VIKING GP
2414	DRAUPNE FM
2426	HEATHER FM
2459	VESTLAND GP
2459	HUGIN FM
2496	DUNLIN GP

Logs

Log type	Log top depth [m]	Log bottom depth [m]
HRLA MSIP HNGS	1985	2521
LWD - GR FPWD CAL RES ND	2378	2520
LWD - PD GR DI PWD RES GR DT	1211	1398
LWD - PD GR DI PWD RES GR DT	1398	2378
LWD - PWD RES GR DI DT	218	1211
USIT CBL VDL GR	2085	2365

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	212.0	36	218.0	0.00	
INTERM.	13 3/8	1204.0	17 1/2	1211.0	0.00	
		1214.0		1214.0	1.52	FIT
LINER	9 5/8	2372.0	12 1/4	2378.0	0.00	
OPEN HOLE		2520.0	8 1/2	2520.0	0.00	

**Drilling mud**

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
1211	1.25	13.0		Spud Mud	
1398	1.39	17.0		GLYDRIL	
1797	1.39	20.0		GLYDRIL	
2164	1.39	22.0		GLYDRIL	
2378	1.45	20.0		GLYDRIL	
2504	1.15	11.0		KCL/Polymer	
2520	1.03			GLYDRIL	
2520	1.44	15.0		GLYDRIL	
2520	1.14	11.0		KCL/Polymer	