

**General information**

Wellbore name	3/7-8 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	3/7-8 S (Trym Sør)
Well name	3/7-8
Seismic location	DG0801 FINMIG.IL UHR.I08-204/XL UHR.I08-411
Production licence	147
Drilling operator	DONG E&P Norge AS
Drill permit	1424-L
Drilling facility	MÆRSK GIANT
Drilling days	85
Entered date	09.12.2012
Completed date	03.03.2013
Release date	03.03.2015
Publication date	19.05.2015
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL/GAS
Discovery wellbore	YES
1st level with HC, age	MIDDLE JURASSIC
1st level with HC, formation	SANDNES FM
2nd level with HC, age	MIDDLE JURASSIC
2nd level with HC, formation	BRYNE FM
Kelly bushing elevation [m]	45.0
Water depth [m]	65.0
Total depth (MD) [m RKB]	4188.0
Final vertical depth (TVD) [m RKB]	3733.0
Maximum inclination [°]	41
Bottom hole temperature [°C]	141
Oldest penetrated age	PERMIAN
Oldest penetrated formation	ZECHSTEIN GP
Geodetic datum	ED50
NS degrees	56° 23' 10.62" N



EW degrees	4° 13' 59.97" E
NS UTM [m]	6249894.59
EW UTM [m]	576152.28
UTM zone	31
NPDID wellbore	7058

Wellbore history

General

Well 3/7-8 S was drilled on the Trym South prospect between the Norwegian Trym field and the Danish Lulita Field in the North Sea. The primary objectives were to prove hydrocarbons in the Sandnes and Bryne formations, to define the fluid contacts and to obtain representative fluid samples from the reservoirs. A secondary objective was to investigate the presence of hydrocarbons in the Palaeocene Maureen Formation.

Operations and results

Wildcat well 3/7-8 S was spudded with the jack-up installation Mærsk Giant on 9 December 2012 and drilled to TD at 4188 m (3733 m TVD) in the Permian Zechstein Group. The well was drilled vertical down to 1123 m. From there, inclination was built up to a sail angle of 41° at ca 1700 m. From ca 2512 m, the inclination was dropped to vertical again from ca 3800 m. Apart from stuck conductor in the top hole, requiring a re-spud, there were no significant problems encountered in the operations. The well was drilled with seawater down to 202.5 m, with bentonite/polymer mud from 202.5 m to 1126 m, and with Versatec oil based mud from 1126 m to TD.

The Maureen Formation was encountered at 3302 m, but was water-wet. Top Sandnes Formation Sandstone was encountered at 3891.5 m (3435.8 m TVD). The Sandnes and underlying Bryne formations contained a 36 m TVD oil column with an 85 m TVD gas cap. The net/gross for the hydrocarbon bearing interval was 0.51. A GOC was established at 3977 m (3521.4 m TVD) and the OWC at 4012.9 m (3557.3 m TVD). Pressure data showed four clearly differently pressured zones through the hydrocarbon bearing reservoir, separated by coals and shaley barriers as seen on the well logs. Fair to good oil shows were recorded between 3891 m and 4000 m and trace to poor shows were recorded from 4000 to 4040 m. Otherwise no oil shows above the oil base in the mud were detected in the well.

Three cores were cut in the Sandnes and Bryne formations from 3890 to 4039 m with 100% recovery. The core to log depth shifts for cores 1, 2, and 3 are 3.0 m, 3.4 m, and 3.6 m, respectively. RCX fluid samples were taken at 3933.5 m (gas), 3952 m (gas), 3975.5 m (gas), 3979.5 m (oil), 4005.5 m (oil), 4005.7 m (oil), and 4042.5 m (water).

The well was permanently abandoned on 3 March 2013 as an oil and gas discovery.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
210.00	4187.00



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	3890.0	3944.4	[m]
2	3944.5	3996.7	[m]
3	3996.7	4039.8	[m]

Total core sample length [m]	149.7
Cores available for sampling?	YES

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
3820.0	[m]	DC	FUGRO
3857.0	[m]	DC	FUGRO
3884.0	[m]	DC	FUGRO
3899.0	[m]	C	FUGRO
3907.7	[m]	C	FUGRO
3921.0	[m]	C	FUGRO
3959.8	[m]	C	FUGRO
3990.0	[m]	C	FUGRO
4020.9	[m]	C	FUGRO
4049.0	[m]	DC	FUGRO
4061.0	[m]	DC	FUGRO
4124.0	[m]	DC	FUGRO
4160.0	[m]	DC	FUGRO

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
110	NORDLAND GP
1481	HORDALAND GP
3206	ROGALAND GP
3206	BALDER FM
3235	SELE FM



3252	LISTA FM
3302	MAUREEN FM
3353	SHETLAND GP
3353	EKOFISK FM
3494	TOR FM
3725	HOD FM
3796	CROMER KNOLL GP
3796	RØDBY FM
3800	SOLA FM
3801	TYNE GP
3801	HAUGESUND FM
3892	VESTLAND GP
3892	SANDNES FM
3949	BRYNE FM
4148	ZECHSTEIN GP

Logs

Log type	Log top depth [m]	Log bottom depth [m]
EXPL GXPL ORIT DSL	3839	4184
MED - NBGR RES DI GR PWD RES	3844	3890
MREX XMAC ORIT DSL	109	4192
MWD - DI	110	202
MWD - DI PWD	202	1126
MWD - GR DI PWD RES SON	202	1100
MWD - GR DI PWD RES SON	1126	3844
MWD - GR DI RES NEU DEN SON STET	3890	4188
RCX CPS	3933	4005
RCX PS	3975	4042

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	197.5	36	202.5	0.00	
SURF.COND.	20	1123.0	24	1126.0	0.00	
INTERM.	13 3/8	2365.0	16	2370.0	1.94	LOT
INTERM.	9 5/8	3840.0	12 1/4	3844.0	2.09	LOT



OPEN HOLE		4188.0	8 1/2	4188.0	0.00	
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Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
202	1.50			seawater	
1126	1.20			BentonitWBM	
4000	1.50			VersatecOBM	