

**General information**

Wellbore name	2/5-15
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	2/5-15
Seismic location	MC3DCGR2015M-PSDM-TWT: Inline 20462. Crossline 16888
Production licence	006 C
Drilling operator	DNO Norge AS
Drill permit	1866-L
Drilling facility	BORGLAND DOLPHIN
Drilling days	49
Entered date	07.08.2021
Completed date	24.09.2021
Plugged and abandon date	24.09.2021
Release date	31.12.2022
Publication date	31.12.2022
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL
Discovery wellbore	NO
1st level with HC, age	PALEOCENE
1st level with HC, formation	VÅLE FM
Kelly bushing elevation [m]	31.0
Water depth [m]	67.0
Total depth (MD) [m RKB]	3323.0
Final vertical depth (TVD) [m RKB]	3323.0
Maximum inclination [°]	1.7
Bottom hole temperature [°C]	133
Oldest penetrated age	PALEOCENE
Oldest penetrated formation	EKOFISK FM
Geodetic datum	ED50
NS degrees	56° 36' 42.41" N
EW degrees	3° 25' 55.71" E
NS UTM [m]	6274395.79



EW UTM [m]	526525.64
UTM zone	31
NPDID wellbore	9367

Wellbore history

General

Well 2/5-15 was drilled to test the Gomez prospect north of the Tor Field on the Steinbit Terrace in the North Sea. The main objective of the well was to investigate the presence of hydrocarbons in the Rogaland Group with the Ty /Heimdal Formations and / or Borr sandstone member in the Lista and V le formations as the primary reservoir target.

Operations and results

Wildcat well 2/5-15 was spudded with the semi-submersible installation Borgland Dolphin on 7 August 2021 and drilled to TD at 3323 m in the Paleocene age Ekofisk Formation. Thirty-five hours were spent fishing for stuck wire line equipment during logging operations, otherwise operations proceeded without significant problems. The well was drilled with seawater and hi-vis pills down to 596 m, with Versatec oil-based mud from 596 m to 3115 m, and with Exploradril oil-based mud from 3115 m to TD.

Well 2/5-15 encountered oil in the primary target in the V le formation, 23 metres of which was homogeneous

sandstone of poor reservoir quality. The oil/water contact was not encountered. Initial analysis indicated significant uncertainty regarding the oil mobility. Post-well studies concluded that the well encountered sands with low effective porosity and non-productible hydrocarbons. Shows on the core from the intra-V le Formation sandstones were described as "very faint odour, poor patchy light brown oil stain, even to patchy moderate yellow direct fluorescence, moderate to fast streaming bluish white cut fluorescence, moderate cream residual fluorescence". Otherwise there were no oil shows above the OBM in the well.

One 19,12 m core was cut from 3223 m in intra V le Formation, sandstone (Borr informal Member) and into marls of the V le Formation. MDT fluid samples were collected: 6 samples, mainly mixture of formation water and OBM fluid at 3230.0 and two samples, mainly mixture of formation water and OBM fluid at 3220 m.

The well was permanently abandoned on 24 September 2021 as a non-productible discovery.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
610.00	3323.00

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	3223.0	3242.1	[m]

Total core sample length [m]	19.1
Cores available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
98	NORDLAND GP
1731	HORDALAND GP
1731	NO FORMAL NAME
2815	NO FORMAL NAME
3058	ROGALAND GP
3058	BALDER FM
3079	SELE FM
3122	LISTA FM
3201	VÅLE FM
3217	NO FORMAL NAME
3239	VÅLE FM
3247	SHETLAND GP

Logs

Log type	Log top depth [m]	Log bottom depth [m]
AIT PPC MSIP PPC NGIT	3107	3324
LWD - ECD RES GR DIR	163	596
LWD - ECD RES GR DIR SON	163	606
LWD - GR INC PWD RES DIR SON CAL	1613	3323
LWD - PWD RES GR DIR SON	596	1613
MDT	3220	3230
MDT	3222	3231
SWC GR MSCT	3120	3251



SWC GR XLR	3210	3284
VSP GR	2243	3310
XPT XLD NEXT PEX HNGS CMR	3107	3315

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	163.0	36	163.0	0.00	
INTERM.	20	590.0	26	590.0	1.54	FIT
INTERM.	13 3/8	1606.0	17 1/2	1615.9	1.80	FIT
INTERM.	9 5/8	3107.5	12 1/4	3107.5	1.95	FIT
OPEN HOLE		3323.0	8 1/2	3323.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
164	1.04	1.0	1.0	Spud mud	
606	1.04	1.0	1.0	Spud mud - Hi Vis	
1111	1.64	40.0	19.0	Versatec	
1113	1.35	32.0	9.0	Versatec	
1526	1.36	27.0	11.0	Versatec	
1604	1.64	40.0	19.0	Versatec	
1613	1.35	31.0	8.5	Versatec	
1848	1.66	21.0	16.0	Exploradrill	
1960	1.64	42.0	21.0	Versatec	
3115	1.64	42.0	18.0	Versatec	
3192	1.66	21.0	11.0	Exploradrill	
3322	1.66	21.0	16.0	Exploradrill	