



General information

Wellbore name	16/1-24
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	16/1-24
Seismic location	LN12M02.inline 2619 & crossline 4678
Production licence	338 C
Drilling operator	Lundin Norway AS
Drill permit	1553-L
Drilling facility	ISLAND INNOVATOR
Drilling days	30
Entered date	14.02.2015
Completed date	16.03.2015
Release date	16.03.2017
Publication date	16.03.2017
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	30.0
Water depth [m]	106.0
Total depth (MD) [m RKB]	2299.0
Final vertical depth (TVD) [m RKB]	2299.0
Maximum inclination [°]	0.7
Oldest penetrated age	LATE JURASSIC
Oldest penetrated formation	HUGIN FM
Geodetic datum	ED50
NS degrees	58° 46' 45.59" N
EW degrees	2° 6' 35.01" E
NS UTM [m]	6515972.54
EW UTM [m]	448523.16
UTM zone	31
NPDID wellbore	7616



Wellbore history

General

Well 16/1-24 was drilled to test the Gemini prospect on the Gudrun Terrace west-south-west of the Edvard Grieg Field in the North Sea. The primary objective was to test the hydrocarbon potential in the Paleocene Ty Formation

Operations and results

Wildcat well 16/1-24 was spudded with the semi-submersible installation Island Innovator on 14 February 2015 and drilled to TD at 2299 m in the Late Jurassic Hugin Formation. No significant problem was encountered in the operations. The well was drilled with seawater and hi-vis pills down to 600 m and with Aquadril mud from 600 m to TD.

The target Ty Formation came in at 2116 m. The Ty Formation consisted of a 30-metre thick sandstone with an average porosity of 26.7% and a net/gross of 0.984. The well also encountered a ca 30-metre thick Intra Draupne Formation sandstone of very good reservoir quality and a ca 120-metre thick sandstone-dominated interval in the Heather formation with good to poor reservoir quality. Pressure points in Paleocene and Late Jurassic were below hydrostatic, indicating pressure depletion in the area. All reservoirs are water bearing. No oil shows were observed in the well.

No cores were cut and no fluid sample was taken.

The well was permanently abandoned on 16 March 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]
610.00	2299.00

Cuttings available for sampling?	YES
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Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
135	NORDLAND GP
135	UNDIFFERENTIATED
220	NO FORMAL NAME
320	UNDIFFERENTIATED
742	UTSIRA FM



969	UNDIFFERENTIATED
1076	HORDALAND GP
1076	UNDIFFERENTIATED
1091	SKADE FM
1160	UNDIFFERENTIATED
1172	NO FORMAL NAME
1626	NO FORMAL NAME
1666	GRID FM
1747	NO FORMAL NAME
1960	ROGALAND GP
1960	BALDER FM
1980	SELE FM
2041	LISTA FM
2066	HEIMDAL FM
2067	LISTA FM
2088	VÅLE FM
2112	UNDIFFERENTIATED
2116	TY FM
2147	VÅLE FM
2150	VIKING GP
2150	INTRA DRAUPNE FM SS
2198	DRAUPNE FM
2223	INTRA HEATHER FM SS
2282	HEATHER FM
2290	VESTLAND GP
2290	HUGIN FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
BG PWD GR RES DIR DEN CAL NEU SO	1923	2299
DIR GR PWD	206	600
DIR PWD	206	600
GR PWD RES DIR SON	135	203
GR RES PWD DIR CAL DEN NEU SON	605	1950
MSCT	1268	1298
VSP	0	1172
XPT	1091	1091

**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	201.4	36	206.0	0.00	
SURF.COND.	20	594.0	26	600.0	1.55	FIT
PILOT HOLE		600.0	9 7/8	600.0	0.00	
INTERM.	9 5/8	1946.0	12 1/4	1954.0	1.71	LOT
OPEN HOLE		2299.0	8 1/2	2299.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
135	1.00	1.0		Water Based	
179	1.04	56.0		Water Based	
206	1.40	25.0		Water Based	
206	1.04	15.0		Water Based	
500	1.36	18.0		Water Based	
600	1.40	16.0		Water Based	
600	1.30	11.0		Water Based	
600	1.03	1.0		Water Based	
600	1.50	17.0		Water Based	
1790	1.25	12.0		Water Based	
1954	1.35	17.0		Water Based	
2300	1.25	14.0		Water Based	