



General information

Wellbore name	35/11-20 B
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	35/11-20 B (Beaujolais)
Well name	35/11-20
Seismic location	3D survey WIN14M05 Inline 22570 X-line 11940
Production licence	248 F
Drilling operator	Wintershall Norge AS
Drill permit	1637-L
Drilling facility	BORGLAND DOLPHIN
Drilling days	39
Entered date	07.08.2016
Completed date	15.09.2016
Release date	15.09.2018
Publication date	15.09.2018
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL
Discovery wellbore	YES
1st level with HC, age	LATE JURASSIC
1st level with HC, formation	SOGNEFJORD FM
2nd level with HC, age	MIDDLE JURASSIC
2nd level with HC, formation	TARBERT FM
Kelly bushing elevation [m]	31.0
Water depth [m]	373.0
Total depth (MD) [m RKB]	5114.0
Final vertical depth (TVD) [m RKB]	4087.0
Maximum inclination [°]	65
Bottom hole temperature [°C]	147
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	STATFJORD GP
Geodetic datum	ED50
NS degrees	61° 13' 20.29" N



EW degrees	3° 26' 25.57" E
NS UTM [m]	6787789.95
EW UTM [m]	523655.76
UTM zone	31
NPDID wellbore	8036

Wellbore history

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General

Well 35/11-20 B is a geological sidetrack to well 35/11-20 S. Well 35/11-20 S and its' first sidetrack 35/11-20 A reached the Middle-Late Jurassic Heather Formation and proved oil in Oxfordian age Intra-Heather Formation sandstone (Orion prospect). The objective of sidetrack well 35/11-20 B was to further appraise and test the oil bearing Oxfordian aged Intra-Heather Formation sandstone as found in 35/11-20S & 20A. The exploration objective was to test HC potential of the Middle Jurassic Brent Group as well as the Early Jurassic Cook Formation.

Operations and results

Wildcat well 35/11-20 B was kicked off from the main bore (35/11-20S) at 1812 m in the Shetland Group on 7 August 2016. It was drilled with the semi-submersible installation Borgland Dolphin to TD at 5114 m (4087 m TVD) m in the Early Jurassic Statfjord Group. No significant problem was encountered in the operations. The well was drilled with Innovert oil based mud from kick-off to TD.

Well 35/11-20B encountered the Oxfordian sandstones with top at 4131 m (3223 m TVD). These sandstones are 36 m TVD thick and with lower reservoir quality compared to the 35/11-20 A sidetrack. The top 8 m TVD is oil bearing. Top Tarbert Formation was penetrated at 4596 m (3616 m TVD). The upper 10 m were oil-bearing with oil in a Down-To situation. These sandstones had moderate reservoir quality with an average porosity of 14%. The Ness, Etive and Oseberg reservoirs are of low to medium quality with an average porosity of 13 -15% and water wet with some residual hydrocarbons. The Cook Formation was of low quality and is believed to be water bearing with some residual hydrocarbon. Only the top of the Statfjord Group was penetrated and it is water bearing with some residual HC.

No cores were cut. MDT fluid samples were taken at 4606.6 m in the Tarbert Formation (formation oil), 4803.5 m in the Oseberg Formation (formation water with traces of live hydrocarbon), and 5095.20 m in the Statfjord Group (formation water with traces of live hydrocarbon).

The well was permanently abandoned on 15 September as an oil discovery.

Testing

No drill stem test was performed.

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Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1800.00	5114.00

Cuttings available for sampling?	YES
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Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
404	NORDLAND GP
724	UTSIRA FM
921	HORDALAND GP
1527	FRIGG FM
1625	ROGALAND GP
1625	BALDER FM
1694	SELE FM
1720	LISTA FM
1943	SHETLAND GP
1943	JORSALFARE FM
2155	KYRRE FM
3632	TRYGGVASON FM
3720	SVARTE FM
3745	CROMER KNOLL GP
3745	RØDBY FM
3750	ÅSGARD FM
3812	VIKING GP
3812	DRAUPNE FM
3871	HEATHER FM
4131	SOGNEFJORD FM
4176	HEATHER FM
4596	BRENT GP
4596	TARBERT FM
4607	NESS FM
4706	ETIVE FM
4725	RANNOCH FM
4789	OSEBERG FM
4862	DUNLIN GP
4862	DRAKE FM



4900	COOK FM
5075	STATFJORD GP

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CMR MDT	4463	4625
CMR MDT GR	3981	4265
LWD - DIR	403	501
LWD - GR RES DEN NEU DIR PWD	4465	5114
LWD - GR RES DEN NEU SON DIR PWD	3885	4465
LWD - GR RES DIR PWD	501	1098
LWD - GR RES SON DIR PWD	1098	3885
LWD - PWD	5114	5114
PEX AIT SON	4463	5114
SWC	3910	4380
TLC CMR MDT	3586	5098
USIT CBL	3289	3785
VSP GR	1748	4463

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	494.0	36	501.0	0.00	
SURF.COND.	20	1091.8	26	1098.0	1.77	FIT
INTERM.	13 3/8	1789.3	17 1/2	1795.5	1.71	LOT
INTERM.	9 5/8	3875.5	12 1/4	3885.0	1.81	LOT
LINER	7	4463.0	8 1/2	4465.0	1.95	LOT
OPEN HOLE		5114.0	6	5114.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
1100	1.29	13.0		PERFORMADRIL	
1789	1.44	28.0		INNOVERT OBM	
2535	1.44	29.0		INNOVERT OBM	



Factpages

Wellbore / Exploration

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3147	1.44	29.0		INNOVERT OBM	
3630	1.44	32.0		INNOVERT OBM	
3885	1.39	28.0		INNOVERT OBM	
3885	1.47	30.0		INNOVERT OBM	
4012	1.39	24.0		INNOVERT	
4494	1.54	30.0		INNOVERT	
5114	1.54	28.0		INNOVERT	