

**General information**

Wellbore name	34/8-17 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
Field	VISUND
Discovery	34/8-17 S
Well name	34/8-17
Seismic location	ST10015.Inline 2381 & crossline 1761
Production licence	120
Drilling operator	Statoil Petroleum AS
Drill permit	1496-L
Drilling facility	COSLPioneer
Drilling days	58
Entered date	16.01.2014
Completed date	14.03.2014
Release date	14.03.2016
Publication date	15.03.2016
Purpose - planned	WILDCAT
Reentry	NO
Content	GAS
Discovery wellbore	YES
1st level with HC, age	LATE JURASSIC
1st level with HC, formation	INTRA HEATHER FM SS
2nd level with HC, age	MIDDLE JURASSIC
2nd level with HC, formation	BRENT GP
3rd level with HC, age	MIDDLE JURASSIC
3rd level with HC, formation	COOK FM
Kelly bushing elevation [m]	25.0
Water depth [m]	378.0
Total depth (MD) [m RKB]	4587.0
Final vertical depth (TVD) [m RKB]	3190.0
Maximum inclination [°]	70.6
Oldest penetrated age	LATE TRIASSIC
Oldest penetrated formation	LUNDE FM
Geodetic datum	ED50



NS degrees	61° 26' 5.92" N
EW degrees	2° 35' 20.7" E
NS UTM [m]	6811470.20
EW UTM [m]	478078.78
UTM zone	31
NPDID wellbore	7310

Wellbore history

General

Well 34/8-17 S was drilled from Slot 1 on the Visund Nord ITS fixed multi-well template, on Tampen Spur in the North Sea. The primary objective was to test the Helene prospect within the Upper Statfjord Group, and the Methone prospect in the Lunde Formation/Lower Statfjord Group. After the 34/8-17 S exploration well two Visund development wells was planned as sidetracks to the exploration well.

Operations and results

Wildcat well 34/8-17 S was spudded with the semi-submersible installation COSLPioneer on 16 January 2014 and drilled to TD at 4587 m (3190 m TVD) m in the Late Triassic Lunde Formation. The well was drilled with spud mud down to 489 m, with KCl/polymer mud from 489 m to 1251 m, with Performadril WBM from 1251 m to 2112 m, and with Innovert OBM from 2112 m to TD.

Well 34/8-17 S proved a gas column of 52 m TVD in Intra Heather Formation Sandstone and underlying Brent Group sandstone. Minor amounts of hydrocarbons were found also in the Cook Formation and the upper part of Statfjord Group. The results show good reservoir properties in the Intra Heather Formation and Brent Group sandstones. Well 34/8-17 S found gas down-to base of the Brent Group (GDT 2987 m TVD MSL) but seismic anomalies indicate that the hydrocarbon-water contact is at 3020 m TVD MSL. The Lower Statfjord Group and Lunde Formation were water filled.

The sidetracked development wells also penetrated gas-filled Intra Draupne Formation sandstones. These were not present in the exploration well.

No oil shows were described in the wells.

No cores were cut in the well. Wire line fluid samples were taken at 3938 m, 4000.5 m, and 4029 m.

Well bore 34/8-17 S was plugged back and permanently abandoned on 14 March 2014 as a gas discovery.

Testing

No drill stem test was performed.

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
3801.0	[m]	DC	PETROSTR



3813.0	[m]	DC	PETROS
3825.0	[m]	DC	PETROS
3837.0	[m]	DC	PETROS
3849.0	[m]	DC	PETROS
3852.0	[m]	DC	PETROS
3855.0	[m]	DC	PETROS
3861.0	[m]	DC	PETROS
3867.0	[m]	DC	PETROS
3870.0	[m]	DC	PETROS
3873.0	[m]	DC	PETROS
3876.0	[m]	DC	PETROS
3885.0	[m]	DC	PETROS
3890.0	[m]	DC	PETROS
3894.0	[m]	DC	PETROS
3897.0	[m]	DC	PETROS
3900.0	[m]	DC	PETROS
3903.0	[m]	DC	PETROS
3906.0	[m]	DC	PETROS
3909.0	[m]	DC	PETROS
3912.0	[m]	DC	PETROS
3918.0	[m]	DC	PETROS
3921.0	[m]	DC	PETROS
3924.0	[m]	DC	PETROS
3927.0	[m]	DC	PETROS
3930.0	[m]	DC	PETROS
3933.0	[m]	DC	PETROS
3936.0	[m]	DC	PETROS
3939.0	[m]	DC	PETROS
3945.0	[m]	DC	PETROS
3951.0	[m]	DC	PETROS
3960.0	[m]	DC	PETROS
3969.0	[m]	DC	PETROS
3978.0	[m]	DC	PETROS
3987.0	[m]	DC	PETROS
3993.0	[m]	DC	PETROS
3996.0	[m]	DC	PETROS
3999.0	[m]	DC	PETROS
4005.0	[m]	DC	PETROS
4011.0	[m]	DC	PETROS
4017.0	[m]	DC	PETROS



4020.0 [m]	DC	PETROS
4023.0 [m]	DC	PETROS
4029.0 [m]	DC	PETROS
4035.0 [m]	DC	PETROS
4041.0 [m]	DC	PETROS
4047.0 [m]	DC	PETROS
4053.0 [m]	DC	PETROS
4059.0 [m]	DC	PETROS
4065.0 [m]	DC	PETROS
4071.0 [m]	DC	PETROS
4077.0 [m]	DC	PETROS
4083.0 [m]	DC	PETROS
4085.0 [m]	DC	PETROS
4089.0 [m]	DC	PETROS
4104.0 [m]	DC	PETROS
4110.0 [m]	DC	PETROS
4116.0 [m]	DC	PETROS
4122.0 [m]	DC	PETROS
4128.0 [m]	DC	PETROS
4134.0 [m]	DC	PETROS
4140.0 [m]	DC	PETROS
4149.0 [m]	DC	PETROS
4155.0 [m]	DC	PETROS
4161.0 [m]	DC	PETROS
4167.0 [m]	DC	PETROS
4173.0 [m]	DC	PETROS
4179.0 [m]	DC	PETROS
4185.0 [m]	DC	PETROS
4191.0 [m]	DC	PETROS
4197.0 [m]	DC	PETROS
4203.0 [m]	DC	PETROS
4209.0 [m]	DC	PETROS
4215.0 [m]	DC	PETROS
4221.0 [m]	DC	PETROS
4227.0 [m]	DC	PETROS
4233.0 [m]	DC	PETROS
4242.0 [m]	DC	PETROS
4251.0 [m]	DC	PETROS
4260.0 [m]	DC	PETROS
4272.0 [m]	DC	PETROS



4278.0 [m]	DC	PETROS
4281.0 [m]	DC	PETROS
4284.0 [m]	DC	PETROS
4290.0 [m]	DC	PETROS
4293.0 [m]	DC	PETROS
4296.0 [m]	DC	PETROS
4299.0 [m]	DC	PETROS
4314.0 [m]	DC	PETROS
4323.0 [m]	DC	PETROS
4332.0 [m]	DC	PETROS
4341.0 [m]	DC	PETROS
4350.0 [m]	DC	PETROS
4359.0 [m]	DC	PETROS
4368.0 [m]	DC	PETROS
4377.0 [m]	DC	PETROS
4386.0 [m]	DC	PETROS
4395.0 [m]	DC	PETROS
4404.0 [m]	DC	PETROS
4413.0 [m]	DC	PETROS
4422.0 [m]	DC	PETROS
4431.0 [m]	DC	PETROS
4440.0 [m]	DC	PETROS
4449.0 [m]	DC	PETROS
4458.0 [m]	DC	PETROS
4467.0 [m]	DC	PETROS
4476.0 [m]	DC	PETROS
4485.0 [m]	DC	PETROS
4494.0 [m]	DC	PETROS
4503.0 [m]	DC	PETROS
4512.0 [m]	DC	PETROS
4521.0 [m]	DC	PETROS
4530.0 [m]	DC	PETROS
4539.0 [m]	DC	PETROS
4548.0 [m]	DC	PETROS
4557.0 [m]	DC	PETROS
4566.0 [m]	DC	PETROS
4575.0 [m]	DC	PETROS
4584.0 [m]	DC	PETROS

**Lithostratigraphy**

Top depth [mMD RKB]	Lithostrat. unit
403	NORDLAND GP
1124	UTSIRA FM
1168	HORDALAND GP
1836	ROGALAND GP
1836	BALDER FM
1884	SELE FM
1924	LISTA FM
2074	SHETLAND GP
3857	VIKING GP
3857	DRAUPNE FM
3874	HEATHER FM
3913	INTRA HEATHER FM SS
3951	BRENT GP
3951	TARBERT FM
3973	NESS FM
4009	RANNOCH FM
4069	DUNLIN GP
4069	DRAKE FM
4098	COOK FM
4199	BURTON FM
4244	AMUNDSEN FM
4285	STATFJORD GP
4485	HEGRE GP
4485	LUNDE FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
MWD-GR RES	493	3466
MWD-GR RES DEN NEU SON FSWD	3466	4586

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	489.4	36	495.0	0.00	
SURF.COND.	20	1251.0	26	1261.0	1.57	FIT
INTERM.	13 3/8	2111.8	17 1/2	2123.0	1.70	FIT
SURF.COND.	9 5/8	3455.3	12 1/4	3466.0	1.86	FIT
OPEN HOLE		4587.0	8 1/2	4587.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
378	1.50	23.0		KCl/Polymer	
495	1.50	21.0		KCl/Polymer	
1261	1.50	25.0		KCl/Polymer	
1261	1.39	23.0		Performadril	
1267	1.39	26.0		Performadril	
2031	1.60	30.0		Innovert	
2123	1.53	45.0		Performadril	
2211	1.60	26.0		Innovert	
2997	1.61	30.0		Innovert	
3158	1.55	31.0		Innovert	
3466	1.57	34.0		Innovert	
3466	1.55	29.0		Innovert	
3503	1.62	28.0		Innovert	
3779	1.66	33.0		Innovert	
4333	1.66	34.0		Innovert	
4587	1.78	41.0		Innovert	