General information

Wellbore name	34/8-15 S
Type	EXPLORATION
Purpose	APPRAISAL
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	NORTH SEA
Field	VISUND
Discovery	34/8-1 Visund
Well name	34/8-15
Seismic location	IL2448/XL1620
Production licence	120
Drilling operator	Statoil Petroleum AS
Drill permit	1426-L
Drilling facility	COSLPioneer
Drilling days	48
Entered date	03.01.2013
Completed date	19.02.2013
Release date	19.02.2015
Publication date	21.05.2015
Purpose - planned	WILDCAT
Reentry	NO
Content	GAS
Discovery wellbore	NO
1st level with HC, age	LATE JURASSIC
1st level with HC, formation	INTRA DRAUPNE FM SS
2nd level with HC, age	MIDDLE JURASSIC
2nd level with HC, formation	BRENT GP
Kelly bushing elevation [m]	25.0
Water depth [m]	378.0
Total depth (MD) [m RKB]	3690.0
Final vertical depth (TVD) [m RKB]	3046.0
Maximum inclination [°]	67.4
Oldest penetrated age	MIDDLE JURASSIC
Oldest penetrated formation	DRAKE FM
Geodetic datum	ED50
NS degrees	61° 26' 6.1'' N
EW degrees	2° 35' 20.84'' E

NS UTM [m]	6811475.75
EW UTM [m]	478080.89
UTM zone	31
NPDID wellbore	7072

Wellbore history

General

Well 34/8-15 S was drilled on the northeast flank of Visund in the northern part of the North Sea. The objective was to prove petroleum in Middle Jurassic reservoir rocks (the Brent Group), as well as clarify possible reservoir communication with the Visund field.

Operations and results

Wildcat well 34/8-15 S was drilled with the semi-submersible installation Cosl Pioneer from the Visund Nord subsea template. It was drilled as a sidetrack from the Visund Nord producer, 34/8-C-4 H. Operations on 34/8-15 S started on 3 January 2013 and the well was drilled to TD at 3690 m in the Middle Jurassic Drake Formation. The well was drilled with water-based mud down to 2069 m and with oil based mud from 2069 m to TD.

A 16 m TVD thick Intra-Draupne Formation sandstone was encountered at 3439 m (2876 m TVD); Draupne Formation shales were not present. The Intra-Draupne sandstone rested directly on Brent Group sandstones at 3465 m (2892 m TVD). An approximately 50-metre gas column was present in the Intra-Draupne Formation - Brent Group sandstones with good reservoir quality down to a gas-water contact at 3512.6 m (2923.5 m TVD). Pressure data indicate pressure communication with the Visund field.

No cores were cut and no wire line logs were run in the well. Pressure points were recorded on LWD. No fluid samples were taken.

The well was permanently abandoned on 19 February 2013 as gas discovery. In June 2018 the well was reclassified as an appraisal well for the discovery 34/8-1 Visund.

Testing

No drill stem test was performed.

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
3400.0	[m]	DC	PETROSTR
3418.0	[m]	DC	PETROS
3439.0	[m]	DC	PETROS
3451.0	[m]	DC	PETROS
3463.0	[m]	DC	PETROS
3475.0	[m]	DC	PETROS
3487.0	[m]	DC	PETROS

3499.0	[m]	DC	PETROS
3505.0	[m]	DC	PETROS
3511.0	[m]	DC	PETROS
3517.0	[m]	DC	PETROS
3523.0	[m]	DC	PETROS
3529.0	[m]	DC	PETROS
3535.0	[m]	DC	PETROS
3541.0	[m]	DC	PETROS
3547.0	[m]	DC	PETROS
3553.0	[m]	DC	PETROS
3559.0	[m]	DC	PETROS
3577.0	[m]	DC	PETROS
3583.0	[m]	DC	PETROS
3589.0	[m]	DC	PETROS
3595.0	[m]	DC	PETROS
3601.0	[m]	DC	PETROS
3607.0	[m]	DC	PETROS
3613.0	[m]	DC	PETROS
3619.0	[m]	DC	PETROS
3625.0	[m]	DC	PETROS
3631.0	[m]	DC	PETROS
3637.0	[m]	DC	PETROS
3643.0	[m]	DC	PETROS
3649.0	[m]	DC	PETROS
3655.0	[m]	DC	PETROS
3661.0	[m]	DC	PETROS
3667.0	[m]	DC	PETROS
3673.0	[m]	DC	PETROS
3679.0	[m]	DC	PETROS
3685.0	[m]	DC	PETROS
3690.0	[m]	DC	PETROS

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
403	NORDLAND GP
1114	UTSIRA FM
1165	HORDALAND GP
1802	ROGALAND GP

1802	BALDER FM
1861	SELE FM
1885	LISTA FM
2025	SHETLAND GP
2025	KYRRE FM
3340	TRYGGVASON FM
3427	CROMER KNOLL GP
3427	ÅSGARD FM
3439	VIKING GP
3439	DRAUPNE FM
3465	BRENT GP
3465	TARBERT FM
3478	NESS FM
3507	ETIVE FM
3546	RANNOCH FM
3649	DUNLIN GP
3649	DRAKE FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
MWD - ABGR GR RES DEN NEU AC FPW	3449	3690
MWD - GR RES	498	2069
MWD - GR RES DEN NEU AC	2069	2707
MWD - GR RES DEN NEU AC FPWD	2663	3449

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	490.0	36	495.0	0.00	
SURF.COND.	20	1257.0	26	1300.0	1.52	FIT
INTERM.	13 3/8	2069.0	17 1/2	2070.0	1.72	FIT
INTERM.	9 5/8	2697.0	12 1/4	2700.0	1.79	FIT
OPEN HOLE		3690.0	8 1/2	3690.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
448	1.50	13.0		KCl/Polymer	
1297	1.39	21.0		Performadril	
2078	1.50	29.0		Enviromul Yellow	
2132	1.55	34.0		Enviromul Yellow	
2400	1.50	35.0		Enviromul Yellow	
2450	1.62	47.0		Enviromul Yellow	
2707	1.50	32.0		Enviromul Yellow	
3018	1.57	43.0		Enviromul Yellow	
3130	1.62	50.0		Enviromul Yellow	
3230	1.60	42.0		Enviromul Yellow	
3521	1.62	57.0		Enviromul Yellow	
3690	1.62	53.0		Enviromul Yellow	

Pressure plots

The pore pressure data is sourced from well logs if no other source is specified. In some wells where pore pressure logs do not exist, information from Drill stem tests and kicks have been used. The data has been reported to the NPD, and further processed and quality controlled by IHS Markit.

Document name	Document format	Document size [MB]
7072_Formation_pressure_(Formasjonstrykk)	pdf	0.23