

**General information**

Wellbore name	34/4-15 A
Type	EXPLORATION
Purpose	WILDCAT
Status	PLUGGED
Press release	link to press release
Factmaps in new window	link to map
Main area	NORTH SEA
Discovery	34/4-15 A (Sjøpølse)
Well name	34/4-15
Seismic location	NEP13903-02019. SP 1184. NEP19303-04030. SP 1211
Production licence	882
Drilling operator	Neptune Energy Norge AS
Drill permit	1821-L
Drilling facility	DEEPSEA YANTAI
Drilling days	28
Entered date	16.07.2020
Completed date	12.08.2020
Plugged date	12.08.2020
Release date	12.08.2022
Publication date	12.08.2022
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL
Discovery wellbore	YES
1st level with HC, age	LATE JURASSIC
1st level with HC, formation	DRAUPNE FM
2nd level with HC, age	MIDDLE JURASSIC
2nd level with HC, formation	RANNOCH FM
Kelly bushing elevation [m]	27.3
Water depth [m]	332.4
Total depth (MD) [m RKB]	3844.0
Final vertical depth (TVD) [m RKB]	3600.0
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	DRAKE FM
Geodetic datum	ED50
NS degrees	61° 33' 45.84" N
EW degrees	2° 2' 37.52" E



NS UTM [m]	6826005.63
EW UTM [m]	449196.91
UTM zone	31
NPDID wellbore	9061

Wellbore history

General

The 34/4-15 A Sjøpølse well is a geological side-track to well 34/4-15 S west of the Snorre field on Tampen Spur in the North Sea. The primary wellbore found oil in the Middle Jurassic Rannoch Formation (Dugong prospect) and good hydrocarbon indications in a thin and poor reservoir quality Intra Draupne Formation sandstone. The primary objective of well 34/4-15 A was to appraise the Rannoch Formation discovery in well 34/4-15 S. The secondary objective was to prove petroleum in the Late Jurassic Intra Draupne Formation sandstone (Sjøpølse prospect).

Operations and results

Wildcat well 34/4-15 A was kicked off at 2012 m in the main well on 16 July 2020. The well was drilled with the semi-submersible installation Deepsea Yantai to TD at 3844 m (3600 m TVD) m in the Early Jurassic Drake Formation. Operations proceeded without significant problems. The well was drilled with Versatec oil-based mud from kick-off to TD.

Top of the Intra Draupne sandstone reservoir was penetrated at 3563 m (3320.6 m TVD). The reservoir is oil-filled with an ODT at 3663 m (3419.3 m TVD). The lower part is a better reservoir than the upper, and fluid sampling proved two separate oils at 0.705 g/cc and 0.65 g/cc in differing pressure regimes.

The Rannoch Formation was encountered at 3704 m. Pressure points gave an oil gradient that indicated 80 m oil column in the Rannoch Formation. However, logs and flowing fluid during sampling concluded on an oil-water contact at 3721 m (3477.3 m TVD), which represent an oil column of 21 m.

Three cores were cut in succession from 3569 to 3687 m in the Intra Draupne sandstones. The recoveries were 98.14 %, 98.46% and 102.72 % for cores 1, 2 and 3, respectively. MDT fluid samples were taken at 3565.3 m, (oil), 3626.71 m (oil), 3717.3 m (oil), and 3720.99 m (water with some oil). Gas chromatographic analyses indicated low degree of mud contamination in the oil samples.

The well was permanently abandoned on 12 August 2020 as an oil discovery.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1990.00	3844.00

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	3569.0	3596.5	[m]
2	3597.0	3633.4	[m]
3	3634.0	3688.4	[m]

Total core sample length [m]	118.4
Cores available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
360	NORDLAND GP
2209	SHETLAND GP
2209	KYRRE FM
3360	TRYGGVASON FM
3524	CROMER KNOLL GP
3524	MIME FM
3532	VIKING GP
3532	DRAUPNE FM
3563	INTRA DRAUPNE FM SS
3688	HEATHER FM
3689	BRENT GP
3689	TARBERT FM
3704	RANNOCH FM
3802	DUNLIN GP
3802	DRAKE FM