General information

Wellbore name	15/3-12 A
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	15/3-12
Seismic location	PGS16M04-PGS16910VIK
Production licence	025
Drilling operator	Equinor Energy AS
Drill permit	1798-L
Drilling facility	WEST PHOENIX
Drilling days	43
Entered date	21.01.2020
Completed date	03.03.2020
Plugged and abondon date	03.03.2020
Release date	03.03.2022
Publication date	08.08.2022
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	38.6
Water depth [m]	109.0
Total depth (MD) [m RKB]	4037.0
Final vertical depth (TVD) [m RKB]	3833.0
Oldest penetrated age	MIDDLE JURASSIC
Oldest penetrated formation	SLEIPNER FM
Geodetic datum	ED50
NS degrees	58° 46' 53.25'' N
EW degrees	1° 54' 13.44'' E
NS UTM [m]	6516386.03
EW UTM [m]	436616.94
UTM zone	31
NPDID wellbore	8948

Wellbore history

General

Well 15/3-12 A is a geological side-track to well 15/3-12 S, which discovered oil in the Sigrun East Hugin prospect on the Gudrun Terrace in the North Sea. Side-track 15/3-12 A was drilled to the Sigrun East Draupne prospect located west of the primary well and south of the Sigrun Field. The primary objective of 15/3-12 A was to verify down-flank continuation of the Hugin Formation reservoir and find the related hydrocarbon contacts. The secondary objective was to verify presence of Intra-Draupne Formation reservoir and hydrocarbons in same.

Operations and results

Wildcat well 15/3-12 A was kicked off on 19 January 2020 from the main well at 2100 m in Lower Hordaland Group. It was drilled with the semi-submersible installation West Phoenix to 3593 m (3428 m TVD) in the Cromer Knoll Group. While POOH with 12 ¼" drilling BHA, the drill string got stuck at 2756 m in Ty sand. The BHA could not be freed and a technical side-track 15/3-12 A T2 was initiated with kick-off at 2215 m. Large amounts of caved cuttings was produced during kick-off. Drilling proceeded to final TD at 4038 m (3834 m TVD) in the Middle Jurassic Sleipner Formation. Both 15/3-12 A and 15/3-12 A T2 were drilled using Exploradrill oil-based mud from kick-off to TD.

The Hugin reservoir was water filled and only cemented sand stringers were penetrated in the Draupne Formation. No oil shows were described in the well. Combined pressure data from the 15/12-3 S and 15/12-3 A T2 well indicated the following hydrocarbon contacts in the Hugin Formation: Free Water Level at 3614.6 m TVD in the upper reservoir unit, OWC at 3570 m TVD in the middle unit, and Free Water Level at 3605.4 m TVD in the lower unit. The contacts are based on pressure data and oil sample densities and are not penetrated by the wellbores.

No cores were cut. MDT water samples were taken at 3898 m in the Hugin Formation in the 15/3-12 A T2 side-track

The well was permanently abandoned on 2 March 2020 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]
2120.00	3593.00

Cuttings available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
2260	BALDER FM
2269	ROGALAND GP
2269	BALDER FM
2337	SELE FM
2412	LISTA FM
2550	HEIMDAL FM
2664	VÅLE FM
2675	TY FM
2679	SHETLAND GP
2730	EKOFISK FM
2769	EKOFISK FM
2813	JORSALFARE FM
3052	KYRRE FM
3205	TRYGGVASON FM
3369	RØDBY FM
3446	BLODØKS FM
3464	HIDRA FM
3529	CROMER KNOLL GP
3529	RØDBY FM
3577	SOLA FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
MWD LWD - PD OARCVIS TELES	2110	3593

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
LINER	9 7/8	3605.0	12 1/4	3605.0	1.89	FIT