



General information

Wellbore name	35/12-6 A
Type	EXPLORATION
Purpose	APPRAISAL
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	NORTH SEA
Discovery	35/12-6 S (Kallåsen)
Well name	35/12-6
Seismic location	Inline 8469/8470. Xline 28650
Production licence	925
Drilling operator	Wellesley Petroleum AS
Drill permit	1704-L
Drilling facility	TRANSOCEAN ARCTIC
Drilling days	16
Entered date	15.06.2018
Completed date	30.06.2018
Plugged and abandon date	30.06.2018
Release date	30.06.2020
Publication date	30.06.2020
Purpose - planned	APPRAISAL
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	24.0
Water depth [m]	355.0
Total depth (MD) [m RKB]	3263.0
Final vertical depth (TVD) [m RKB]	2993.0
Maximum inclination [°]	40.9
Oldest penetrated age	MIDDLE JURASSIC
Oldest penetrated formation	HEATHER FM
Geodetic datum	ED50
NS degrees	61° 13' 45.08" N
EW degrees	3° 45' 25.28" E
NS UTM [m]	6788712.72
EW UTM [m]	540650.26
UTM zone	31
NPDID wellbore	8488



Wellbore history

General

Well 35/12-6 A is a geological side-track to well 35/12-6 S on the Uer Terrace south-east of the 35/9-7 Nova discovery in the North Sea. Well 35/12-6 S found oil in the Fensfjord Formation, but the oil-water contact could not be established. The objective of the side-track well was to drill down-dip on the structure to delineate the oil accumulation.

Operations and results

Appraisal well 35/12-6 A was kicked off at 1059 m in well 35/12-6 S on 15 June 2018. It was drilled with the semi-submersible installation Transocean Arctic to TD at 3263 m (2993 m TVD) in Callovian age sediments in the Heather Formation. Operations proceeded without significant problems. The well was drilled with Innovert oil-based mud from kick-off to TD.

Well 35/12-6 A encountered top Fensfjord Formation at 3157 m (2906 m TVD). Fensfjord was 42.3 m TVD thick and was very heterolithic with only 6.9 m net water-bearing reservoir of moderate quality. No oil shows were observed in the well. Evaluation of the combined data from the main bore and the side-track (pressures, cores and logs) suggest an OWC between 2854.4 and 2866 m TVD, so the well penetrated Fensfjord below the OWC.

No cores were cut in 35/12-6 A. MDT water samples were taken at 3199.2 m and 3211.8 m.

The well was permanently abandoned on 30 June 2018 as a dry appraisal well.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1080.00	3261.00

Cuttings available for sampling?	YES
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Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
379	NORDLAND GP
563	UTSIRA FM
579	NORDLAND GP
895	GRID FM



950	ROGALAND GP
950	BALDER FM
1011	SELE FM
1054	LISTA FM
1198	NO FORMAL NAME
1320	LISTA FM
1567	VÅLE FM
1627	NO FORMAL NAME
1648	SHETLAND GP
1648	JORSALFARE FM
1808	KYRRE FM
2545	TRYGGVASON FM
2671	BLODØKS FM
2680	SVARTE FM
2760	CROMER KNOLL GP
2760	SOLA FM
2817	ÅSGARD FM
3027	VIKING GP
3027	DRAUPNE FM
3058	HEATHER FM
3157	FENSFJORD FM
3218	HEATHER FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
AIT MSIP PEX GR	2987	3263
LWD - DIR INC	379	444
LWD - DIR INC APWD GR RES AC	444	1049
LWD - GR DIR PWD RES SON	1049	2983
LWD - GR PWD DEN SON RES NEU VIB	2988	3259
MDT	2987	3263
MDT NGI	2987	3263

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	444.7	36	445.0	0.00	
INTERM.	13 3/8	1047.4	17 1/2	1054.0	1.45	FIT
INTERM.	9 5/8	2988.0	12 1/2	2994.0	1.55	FIT
OPEN HOLE		3263.0	8 1/2	3263.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
997	1.02	1.0		Seawater	
1080	1.31	25.0		INNOVERT	
1566	1.31	27.0		INNOVERT	
2025	1.31	28.0		INNOVERT	
2493	1.31	29.0		INNOVERT	
2780	1.31	28.0		INNOVERT	
2780	1.02	1.0		Seawater	
2962	1.32	32.0		INNOVERT	
2994	1.31	31.0		INNOVERT	
2994	1.19	12.0		INNOVERT	
3055	1.19	15.0		INNOVERT	
3263	1.19	16.0		INNOVERT	