General information

Wellbore name	7132/2-2
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	BARENTS SEA
Well name	7132/2-2
Seismic location	
Production licence	857
Drilling operator	Equinor Energy AS
Drill permit	1743-L
Drilling facility	WEST HERCULES
Drilling days	63
Entered date	06.01.2019
Completed date	07.04.2019
Plugged and abondon date	07.04.2019
Release date	01.07.2020
Publication date	03.05.2021
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	31.0
Water depth [m]	304.0
Total depth (MD) [m RKB]	3528.0
Final vertical depth (TVD) [m RKB]	3527.0
Oldest penetrated age	LATE PERMIAN
Oldest penetrated formation	RØYE FM
Geodetic datum	ED50
NS degrees	71° 50' 28.37'' N
EW degrees	32° 23' 17.84'' E
NS UTM [m]	7971546.00
EW UTM [m]	478721.28
UTM zone	36
NPDID wellbore	8638

Wellbore history

General

Well 7132/2-2 was drilled to test the Gjøkåsen Deep prospect on the Signalhornet Dome on the Finmark Platform in the Barents Sea. The Gjøkåsen Deep is the second well on the structure; it was planned and drilled back-to-back with the first well, 7132/2-1 Gjøkåsen. The primary exploration target for Gjøkåsen Deep was to prove petroleum in reservoir rocks from the Early to Late Triassic Age (the Snadd, Kobbe and Havert formation). The secondary exploration target was to prove petroleum and reservoir potential in the lower Havert formation (Early Triassic Age).

Operations and results

Wildcat well 7132/2-2 was spudded with the semi-submersible installation West Hercules on 6 January 2019 and drilled to TD at 3528 m in the Permian Røye Formation. After drilling the top hole to 600 m the well was suspended from 14 January to 9 February when the rig was engaged in operations at 7132/2-1. An influx was registered by high gas readings at surface while circulating bottoms up from TD at 3400 m, with a gas peak of 52.3% before the well was shut in. No volume increase was observed in the active system. The well was drilled with seawater and hi-vis sweeps down to 601 m, with KCl/polymer/GEM mud from 601 to 1851 m, and with Innovert oil-based mud from 1851 m to TD.

In the primary exploration target, well 7132/2-2 encountered 25 metres of sandstone reservoir with moderate to good quality in the Snadd formation (Carnian Age), 17 metres of sandstone reservoir with poor to moderate quality in the Kobbe formation and 26 metres of sandstone reservoir with poor quality in the upper Havert formation. Sandstone reservoir was also encountered in the Klappmyss Formation (Early Triassic Age) in a thickness of 17 metres with poor quality. In the secondary exploration target in the lower Havert Formation, the well encountered an interval of approximately 110 metres of sandstones with very poor reservoir quality. High measurements of formation gas with heavier hydrocarbons in the interval 3215 to 3400 m in Havert led to an extension of the well. The objective of the extension was to evaluate potential presence of source rock and underlying reservoir rocks in the Early Triassic and Late Permian (the Ørret and Røye formation). No reservoir rocks were encountered in this interval. The well is dry. Direct fluorescence (no cut, no residue) at several levels in the well was interpreted as mineral fluorescence.

No cores were cut. MDT water samples were taken at 1915.5 m in the Havert Formation. The samples were contaminated with 42% to 71% oil-based mud.

The well was permanently abandoned on 7 April 2019 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]
603.00	3393.00

Cuttings available for sampling?	YES

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
606.0	[m]	DC	CGG
615.0	[m]	DC	CGG
624.0	[m]	DC	CGG
633.0	[m]	DC	CGG
642.0	[m]	DC	CGG
651.0	[m]	DC	CGG
660.0	[m]	DC	CGG
669.0	[m]	DC	CGG
678.0	[m]	DC	CGG
687.0	[m]	DC	CGG
696.0	[m]	DC	CGG
705.0	[m]	DC	CGG
711.0	[m]	DC	CGG
717.0	[m]	DC	CGG
723.0	[m]	DC	CGG
729.0	[m]	DC	CGG
735.0	[m]	DC	CGG
741.0	[m]	DC	CGG
747.0	[m]	DC	CGG
750.0	[m]	DC	CGG
753.0	[m]	DC	CGG
756.0	[m]	DC	CGG
759.0	[m]	DC	CGG
762.0	[m]	DC	CGG
768.0	[m]	DC	CGG
774.0	[m]	DC	CGG
780.0	[m]	DC	CGG
789.0	[m]	DC	CGG
798.0	[m]	DC	CGG
807.0	[m]	DC	CGG
816.0	[m]	DC	CGG
825.0	[m]	DC	CGG
834.0	[m]	DC	CGG
843.0	[m]	DC	CGG

852.0	[m]	DC	CGG
861.0	[m]	DC	CGG
870.0	[m]	DC	CGG
879.0	[m]	DC	CGG
888.0	[m]	DC	CGG
897.0	[m]	DC	CGG
906.0	[m]	DC	CGG
915.0	[m]	DC	CGG
924.0	[m]	DC	CGG
933.0	[m]	DC	CGG
942.0	[m]	DC	CGG
951.0	[m]	DC	CGG
960.0	[m]	DC	CGG
969.0	[m]	DC	CGG
978.0	[m]	DC	CGG
987.0	[m]	DC	CGG
996.0	[m]	DC	CGG
1005.0	[m]	DC	CGG
1014.0	[m]	DC	CGG
1023.0	[m]	DC	CGG
1032.0	[m]	DC	CGG
1041.0	[m]	DC	CGG
1050.0	[m]	DC	CGG
1059.0	[m]	DC	CGG
1068.0	[m]	DC	CGG
1077.0	[m]	DC	CGG
1086.0	[m]	DC	CGG
1095.0	[m]	DC	CGG
1104.0	[m]	DC	CGG
1113.0	[m]	DC	CGG
1122.0	[m]	DC	CGG
1131.0	[m]	DC	CGG
1140.0	[m]	DC	CGG
1149.0	[m]	DC	CGG
1158.0	[m]	DC	CGG
1167.0	[m]	DC	CGG
1176.0	[m]	DC	CGG
1194.0	[m]	DC	CGG
1203.0	[m]	DC	CGG
1212.0	[m]	DC	CGG

1221.0	[m]	DC	CGG
1230.0	[m]	DC	CGG
1239.0	[m]	DC	CGG
1248.0	[m]	DC	CGG
1269.0	[m]	DC	CGG
1290.0	[m]	DC	CGG
1311.0	[m]	DC	CGG
1332.0	[m]	DC	CGG
1350.0	[m]	DC	CGG
1370.0	[m]	DC	CGG
1391.0	[m]	DC	CGG
1410.0	[m]	DC	CGG
1430.0	[m]	DC	CGG
1450.0	[m]	DC	CGG
1470.0	[m]	DC	CGG
1490.0	[m]	DC	CGG
1510.0	[m]	DC	CGG
1530.0	[m]	DC	CGG
1550.0	[m]	DC	CGG
1570.0	[m]	DC	CGG
1590.0	[m]	DC	CGG
1616.0	[m]	DC	CGG
1630.0	[m]	DC	CGG
1650.0	[m]	DC	CGG
1670.0	[m]	DC	CGG
1690.0	[m]	DC	CGG
1710.0	[m]	DC	CGG
1730.0	[m]	DC	CGG
1750.0	[m]	DC	CGG
1770.0	[m]	DC	CGG
1790.0	[m]	DC	CGG
1810.0	[m]	DC	CGG
1830.0	[m]	DC	CGG
1850.0	[m]	DC	CGG
1870.0	[m]	DC	CGG
1890.0	[m]	DC	CGG
1910.0	[m]	DC	CGG
1930.0	[m]	DC	CGG
1950.0	[m]	DC	CGG
1970.0	[m]	DC	CGG

1976.8	[m]	SWC	CGG
1990.0	[m]	DC	CGG
2010.0	[m]	DC	CGG
2030.0	[m]	DC	CGG
2050.0	[m]	DC	CGG
2070.0	[m]	DC	CGG
2090.0	[m]	DC	CGG
2110.0	[m]	DC	CGG
2130.0	[m]	DC	CGG
2150.0	[m]	DC	CGG
2170.0	[m]	DC	CGG
2190.0	[m]	DC	CGG
2210.0	[m]	DC	CGG
2230.0	[m]	DC	CGG
2250.0	[m]	DC	CGG
2270.0	[m]	DC	CGG
2286.3	[m]	SWC	CGG
2290.0	[m]	DC	CGG
2310.0	[m]	DC	CGG
2330.0	[m]	DC	CGG
2350.0	[m]	DC	CGG
2370.0	[m]	DC	CGG
2380.0	[m]	DC	CGG
2390.0	[m]	DC	CGG
2400.0	[m]	DC	CGG
2408.0	[m]	SWC	CGG
2409.0	[m]	DC	CGG
2418.0	[m]	DC	CGG
2427.0	[m]	DC	CGG
2490.0	[m]	DC	CGG
2511.0	[m]	DC	CGG
2532.0	[m]	DC	CGG
2553.0	[m]	DC	CGG
2572.0	[m]	SWC	CGG
2574.0	[m]	DC	CGG
2595.0	[m]	DC	CGG
2616.0	[m]	DC	CGG
2637.0	[m]	DC	CGG
2658.0	[m]	DC	CGG
2660.0	[m]	SWC	CGG

2679.0	[m]	DC	CGG
2700.0	[m]	DC	CGG
2715.0	[m]	SWC	CGG
2721.0	[m]	DC	CGG
2742.0	[m]	DC	CGG
2763.0	[m]	DC	CGG
2784.0	[m]	DC	CGG
2805.0	[m]	DC	CGG
2812.0	[m]	SWC	CGG
2826.0	[m]	DC	CGG
2847.0	[m]	DC	CGG
2868.0	[m]	DC	CGG
2889.0	[m]	DC	CGG
2897.0	[m]	SWC	CGG
2910.0	[m]	DC	CGG
2931.0	[m]	DC	CGG
2952.0	[m]	DC	CGG
2973.0	[m]	DC	CGG
2984.0	[m]	SWC	CGG
2994.0	[m]	DC	CGG
3015.0	[m]	DC	CGG
3036.0	[m]	DC	CGG
3057.0	[m]	DC	CGG
3078.0	[m]	DC	CGG
3081.0	[m]	SWC	CGG
3099.0	[m]	DC	CGG
3120.0	[m]	DC	CGG
3141.0	[m]	DC	CGG
3162.0	[m]	DC	CGG
3175.0	[m]	SWC	CGG
3183.0	[m]	DC	CGG
3201.0	[m]	DC	CGG
3213.0	[m]	DC	CGG
3225.0	[m]	DC	CGG
3237.0	[m]	DC	CGG
3249.0	[m]	DC	CGG
3257.0	[m]	SWC	CGG
3261.0	[m]	DC	CGG
3273.0	[m]	DC	CGG
3285.0	[m]	DC	CGG

3297.0	[m]	DC	CGG
3309.0	[m]	DC	CGG
3321.0	[m]	DC	CGG
3322.5	[m]	SWC	CGG
3333.0	[m]	DC	CGG
3345.0	[m]	DC	CGG
3357.0	[m]	DC	CGG
3369.0	[m]	DC	CGG
3373.5	[m]	SWC	CGG
3381.0	[m]	DC	CGG
3393.0	[m]	DC	CGG
3395.2	[m]	SWC	CGG
3405.0	[m]	DC	CGG
3415.0	[m]	SWC	CGG
3420.0	[m]	DC	CGG
3435.0	[m]	DC	CGG
3445.0	[m]	SWC	CGG
3450.0	[m]	DC	CGG
3459.0	[m]	DC	CGG
3462.5	[m]	SWC	CGG
3474.0	[m]	DC	CGG
3489.0	[m]	DC	CGG
3491.0	[m]	SWC	CGG
3504.0	[m]	DC	CGG
3518.0	[m]	SWC	CGG
3519.0	[m]	DC	CGG
3528.0	[m]	DC	CGG

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
335	NORDLAND GP
335	NAUST FM
345	ADVENTDALEN GP
345	KOLMULE FM
707	KLIPPFISK FM
716	HEKKINGEN FM
742	FUGLEN FM
752	KAPP TOSCANA GP

752	STØ FM
759	NORDMELA FM
779	FRUHOLMEN FM
878	SNADD FM
1083	SASSENDALEN GP
1083	KOBBE FM
1469	KLAPPMYSS FM
1895	HAVERT FM
3405	TEMPELFJORDEN GP
3405	ØRRET FM
3454	RØYE FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
	0	0

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	36	385.9	41	388.2	0.00	
SURF.COND.	20	594.6	26	601.0	1.39	FIT
INTERM.	13 3/8	952.6	17 1/2	962.0	1.50	FIT
LINER	9 5/8	1849.0	12 1/4	1851.0	1.83	LOT
LINER	7	3144.3	8 1/2	3400.0	1.61	FIT
OPEN HOLE		3528.0	6	3528.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
379	1.35	25.0		KCl/Polymer/GEM	
500	1.03	1.0		Seawater	
595	1.14	17.0		KCl/Polymer/GEM	
601	1.35	25.0		KCl/Polymer/GEM	
612	1.14	17.0		KCl/Polymer/GEM	
1035	1.14	21.0		KCl/Polymer/GEM	

1766	1.15	17.0		KCl/Polymer/GEM	
1766	1.14	593.0		KCl/Polymer/GEM	
1818	1.14	18.0		Innovert	
1851	1.15	18.0		KCl/Polymer/GEM	
1860	1.14	18.0		Innovert	
2944	1.37	20.0		Innovert	
3020	1.14	14.0		Innovert	
3079	1.37	21.0		Innovert	
3131	1.14	14.0		Innovert	
3148	1.37	21.0		Innovert	
3150	1.28	17.0		Innovert	
3150	1.32	21.0		Innovert	
3240	1.14	18.0		Innovert	
3400	1.28	17.0		Innovert	
3400	1.14	16.0		Innovert	
3419	1.37	20.0		Innovert	
3528	1.37	21.0		Innovert	