



Generell informasjon

Brønnbane navn	30/11-13
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	MUNIN
Funn	30/11-13 (Beerenberg)
Brønn navn	30/11-13
Seismisk lokalisering	MC3D-NVG05STZ12-PDSM-KIR-FULLSTK-FIN-D In-line: 1491 X-line: 2472
Utvinningstillatelse	272
Boreoperatør	Statoil Petroleum AS
Boretillatelse	1618-L
Boreinnretning	SONGA DELTA
Boredager	16
Borestart	22.05.2016
Boreslutt	06.06.2016
Frigitt dato	06.06.2018
Publiseringsdato	06.06.2018
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	GAS/CONDENSATE
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	TARBERT FM
Avstand, boredekk - midlere havflate [m]	29.0
Vanndybde ved midlere havflate [m]	105.0
Totalt målt dybde (MD) [m RKB]	3344.0
Totalt vertikalt dybde (TVD) [m RKB]	3342.0
Maks inklinasjon [°]	7.6
Temperatur ved bunn av brønnbanen [°C]	123
Eldste penetrerte alder	MIDDLE JURASSIC
Eldste penetrerte formasjon	NESS FM



Geodetisk datum	ED50
NS grader	60° 9' 55.99" N
ØV grader	2° 35' 35.11" E
NS UTM [m]	6670074.53
ØV UTM [m]	477415.75
UTM sone	31
NPDID for brønnbanen	7948

Brønnhistorie

General

Well 30/11-13 was drilled to test the Beerensberg prospect on the eastern flank of the Fensal Sub-basin in the North Sea. The well is located 8 km southeast of the 30/11-8 S (Krafla) discovery and about 27 km south of the Oseberg South facility. The primary objective was to test the hydrocarbon potential in two reservoir units within the Middle Jurassic Tarbert Formation

Operations and results

Wildcat well 30/11-13 was spudded with the semi-submersible installation Songa Delta on 22 May 2016 and drilled to TD at 3344 m in the Middle Jurassic Ness Formation. No significant problem was encountered in the operations. The well was drilled with seawater and hi-vis sweeps down to 1318 m and with XP-07 oil based mud from 1318 m to TD.

Top Tarbert Formation came in at 2980 m. Gas was encountered at two levels in the top part of the Tarbert formation: from 2980 to a GWC at 2984.5 m, and from 3057 m to a second GWC at 3087.7 m. In these intervals, 4 and 22 metres respectively had good to moderate reservoir properties. Some gas responses were seen also in the Ness Formation. No oil shows were seen in the well.

No cores were cut. MDT fluid samples were taken at 2982.3 m (gas), 3058 m (gas), and 3090 m (water).

The well was permanently abandoned on 6 June 2016 as a gas/condensate discovery.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1340.00	3344.00

Borekaks tilgjengelig for prøvetaking?	YES
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Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
1340.0	[m]	DC	PETROSTR
1370.0	[m]	DC	PETROS
1400.0	[m]	DC	PETROS
1430.0	[m]	DC	PETROS
1460.0	[m]	DC	PETROS
1490.0	[m]	DC	PETROS
1520.0	[m]	DC	PETROS
1550.0	[m]	DC	PETROS
1580.0	[m]	DC	PETROS
1610.0	[m]	DC	PETROS
1640.0	[m]	DC	PETROS
1670.0	[m]	DC	PETROS
1700.0	[m]	DC	PETROS
1730.0	[m]	DC	PETROS
1760.0	[m]	DC	PETROS
1790.0	[m]	DC	PETROS
1820.0	[m]	DC	PETROS
1850.0	[m]	DC	PETROS
1880.0	[m]	DC	PETROS
1910.0	[m]	DC	PETROS
1940.0	[m]	DC	PETROS
1970.0	[m]	DC	PETROS
2000.0	[m]	DC	PETROS
2030.0	[m]	DC	PETROS
2060.0	[m]	DC	PETROS
2090.0	[m]	DC	PETROS
2120.0	[m]	DC	PETROS
2140.0	[m]	DC	PETROS
2160.0	[m]	DC	PETROS
2180.0	[m]	DC	PETROS
2200.0	[m]	DC	PETROS
2220.0	[m]	DC	PETROS
2240.0	[m]	DC	PETROS
2260.0	[m]	DC	PETROS
2280.0	[m]	DC	PETROS
2300.0	[m]	DC	PETROS
2320.0	[m]	DC	PETROS
2340.0	[m]	DC	PETROS



2360.0	[m]	DC	PETROS
2380.0	[m]	DC	PETROS
2400.0	[m]	DC	PETROS
2420.0	[m]	DC	PETROS
2440.0	[m]	DC	PETROS
2460.0	[m]	DC	PETROS
2480.0	[m]	DC	PETROS
2500.0	[m]	DC	PETROS
2520.0	[m]	DC	PETROS
2540.0	[m]	DC	PETROS
2560.0	[m]	DC	PETROS
2590.0	[m]	DC	PETROS
2620.0	[m]	DC	PETROS
2650.0	[m]	DC	PETROS
2680.0	[m]	DC	PETROS
2710.0	[m]	DC	PETROS
2740.0	[m]	DC	PETROS
2760.0	[m]	DC	PETROS
2770.0	[m]	DC	PETROS
2790.0	[m]	DC	PETROS
2820.0	[m]	DC	PETROS
2833.0	[m]	DC	PETROS
2842.0	[m]	DC	PETROS
2851.0	[m]	DC	PETROS
2860.0	[m]	DC	PETROS
2869.0	[m]	DC	PETROS
2878.0	[m]	DC	PETROS
2887.0	[m]	DC	PETROS
2896.0	[m]	DC	PETROS
2905.0	[m]	DC	PETROS
2908.0	[m]	DC	PETROS
2914.0	[m]	DC	PETROS
2923.0	[m]	DC	PETROS
2926.0	[m]	DC	PETROS
2932.0	[m]	DC	PETROS
2941.0	[m]	DC	PETROS
2950.0	[m]	DC	PETROS
2959.0	[m]	DC	PETROS
2968.0	[m]	DC	PETROS
2977.0	[m]	DC	PETROS



2980.0	[m]	DC	PETROS
2986.0	[m]	DC	PETROS
2995.0	[m]	DC	PETROS
3004.0	[m]	DC	PETROS
3013.0	[m]	DC	PETROS
3022.0	[m]	DC	PETROS
3031.0	[m]	DC	PETROS
3040.0	[m]	DC	PETROS
3049.0	[m]	DC	PETROS
3058.0	[m]	DC	PETROS
3067.0	[m]	DC	PETROS
3076.0	[m]	DC	PETROS
3085.0	[m]	DC	PETROS
3094.0	[m]	DC	PETROS
3103.0	[m]	DC	PETROS
3112.0	[m]	DC	PETROS
3121.0	[m]	DC	PETROS
3130.0	[m]	DC	PETROS
3139.0	[m]	DC	PETROS
3148.0	[m]	DC	PETROS
3157.0	[m]	DC	PETROS
3166.0	[m]	DC	PETROS
3175.0	[m]	DC	PETROS
3184.0	[m]	DC	PETROS
3193.0	[m]	DC	PETROS
3202.0	[m]	DC	PETROS
3211.0	[m]	DC	PETROS
3220.0	[m]	DC	PETROS
3229.0	[m]	DC	PETROS
3238.0	[m]	DC	PETROS
3247.0	[m]	DC	PETROS
3256.0	[m]	DC	PETROS
3265.0	[m]	DC	PETROS
3274.0	[m]	DC	PETROS
3283.0	[m]	DC	PETROS
3292.0	[m]	DC	PETROS
3301.0	[m]	DC	PETROS
3310.0	[m]	DC	PETROS
3319.0	[m]	DC	PETROS
3328.0	[m]	DC	PETROS



3337.0	[m]	DC	PETROS
3344.0	[m]	DC	PETROS

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
134	NORDLAND GP
134	UNDIFFERENTIATED
429	UTSIRA FM
724	HORDALAND GP
724	NO FORMAL NAME
732	SKADE FM
1138	NO FORMAL NAME
1458	GRID FM
1475	NO FORMAL NAME
1800	NO FORMAL NAME
1897	NO FORMAL NAME
2123	UNDIFFERENTIATED
2184	ROGALAND GP
2184	BALDER FM
2246	SELE FM
2349	LISTA FM
2467	VÅLE FM
2548	SHETLAND GP
2548	HARDRÅDE FM
2768	KYRRE FM
2899	CROMER KNOLL GP
2899	UNDIFFERENTIATED
2906	VIKING GP
2906	HEATHER FM
2980	BRENT GP
2980	TARBERT FM
3218	NESS FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
AIT HNGS SON SCAN	2447	3344



MDT CMR	2978	3336
MWD - GR RES	171	3344
XL ROCK	2981	3316
XPT PEX ECS CMR	2829	3338

Foringsrør og formasjonsstyrketester

Type utforing	Utforing diam. [tommer]	Utforing dybde [m]	Brønnbane diam. [tommer]	Brønnbane dyp [m]	LOT/FIT slam eqv. [g/cm3]	Type formasjonstest
CONDUCTOR	30	171.0	36	171.0	0.00	
SURF.COND.	13 3/8	1310.0	17 1/2	1318.0	0.00	
		1332.0		0.0	1.49	FIT
LINER	9 5/8	2829.0	12 1/4	2830.0	0.00	
		2833.0		0.0	1.50	FIT
OPEN HOLE		3344.0	8 1/2	3344.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
134	1.30	9.0		Bentonite/Polymer mud	
171	1.04	9.0		Spud Mud	
1170	1.30	14.0		Bentonite/Polymer mud	
1329	1.41	24.0		XP-07	
2083	1.39	24.0		XP-07	
2609	1.39	25.0		XP-07	
2890	1.23	17.0		XP-07	
3110	1.23	17.0		XP-07	
3344	1.23	16.0		XP-07	