



Generell informasjon

Brønnbane navn	30/9-28 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	OSEBERG SØR
Funn	30/9-28 S
Brønn navn	30/9-28
Seismisk lokalisering	3D survey: ST10M04. Navigation set: ST10M04-BIN. In-line: 1363. X-line: 2482
Utvinningstillatelse	104
Boreoperatør	Statoil Petroleum AS
Boretillatelse	1606-L
Boreinnretning	SONGA DELTA
Boredager	43
Borestart	15.01.2016
Boreslutt	26.02.2016
Frigitt dato	26.02.2018
Publiseringsdato	26.02.2018
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	GAS
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	LATE JURASSIC
1. nivå med hydrokarboner, formasjon.	INTRA DRAUPNE FM SS
2. nivå med hydrokarboner, alder	MIDDLE JURASSIC
2. nivå med hydrokarboner, formasjon	TARBERT FM
Avstand, boredekk - midlere havflate [m]	29.0
Vanndybde ved midlere havflate [m]	99.0
Totalt målt dybde (MD) [m RKB]	4083.0
Totalt vertikalt dybde (TVD) [m RKB]	3928.0
Maks inklinasjon [°]	29.3
Temperatur ved bunn av brønnbanen [°C]	143



Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	STATFJORD GP
Geodetisk datum	ED50
NS grader	60° 25' 52.58" N
ØV grader	2° 44' 39.78" E
NS UTM [m]	6699627.45
ØV UTM [m]	485927.59
UTM sone	31
NPDID for brønnbanen	7869

Brønnhistorie



Wellbore history

General

Well 30/9-28 S was drilled about 5.5 kilometres west of the Oseberg South field in the North Sea. The primary exploration target was to prove petroleum in Early and Middle Jurassic reservoir rocks (the Tarbert Formation and upper part of the Statfjord Group). The secondary exploration target was to prove petroleum in Lower Jurassic reservoir rocks (lower part of the Statfjord group).

Operations and results

Wildcat well 30/9-28 S was spudded with the semi-submersible installation Songa Delta on 15 January 2016 and drilled to TD at 4083 m (3928 m TVD) in the Early Jurassic Eiriksson Formation. No significant problem was encountered in the operations. The well was drilled with seawater and hi-vis sweeps down to 1364 m and with XP-07 oil based mud from 1364 m to TD.

The well encountered gas in three different reservoirs. An Intra Draupne Formation sandstone at 2910.5 to 2913 m (2879 to 2881.1 m TVD) was gas filled with a gas-down-to contact. The Tarbert Formation was gas bearing from 2915.6 to a gas-water contact at 2930.0 m (2883.4 to 2896 m TVD). The Intra Draupne sandstone and the Tarbert Formation are not in pressure communication. The Statfjord Group, Nansen Formation, was gas bearing from 3645.1 to a gas-water contact at 3657.9 m (3523 to 3534.4 m TVD). The secondary exploration target in the lower part of the Statfjord group is water bearing. Oil shows were recorded only in the hydrocarbon-bearing reservoirs of the Statfjord Group. The use of oil based mud may have masked minor shows.

One core was cut was cut from 3654 to 3708.6 m with 100% recovery. The core depth should be depth shifted to 3.4 m deeper to match the log data. MDT fluid samples were taken at 2911.5 m (gas), 2928.3 m (gas), 2932 m (water), 2937 m (water), 2953.0 m (water + residual HC), 3654.0 m (gas) and 3658.8 m (water).

The well was permanently abandoned on 26 February 2016 as a gas discovery.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1220.00	4082.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet



Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3654.0	3708.6	[m]

Total kjerneprøve lengde [m]	54.6
Kjerner tilgjengelig for prøvetaking?	YES

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
1220.0	[m]	DC	GEOSTRAT
1250.0	[m]	DC	GEOSTRAT
1280.0	[m]	DC	GEOSTR
1310.0	[m]	DC	GEOSTR
1340.0	[m]	DC	GEOSTR
1370.0	[m]	DC	GEOSTR
1400.0	[m]	DC	GEOSTR
1430.0	[m]	DC	GEOSTR
1470.0	[m]	DC	GEOSTR
1490.0	[m]	DC	GEOSTR
1520.0	[m]	DC	GEOSTR
1550.0	[m]	DC	GEOSTR
1580.0	[m]	DC	GEOSTR
1610.0	[m]	DC	GEOSTR
1640.0	[m]	DC	GEOSTR
1670.0	[m]	DC	GEOSTR
1700.0	[m]	DC	GEOSTR
1730.0	[m]	DC	GEOSTR
1760.0	[m]	DC	GEOSTR
1790.0	[m]	DC	GEOSTR
1820.0	[m]	DC	GEOSTR
1850.0	[m]	DC	GEOSTR
1880.0	[m]	DC	GEOSTR
1910.0	[m]	DC	GEOSTR
1940.0	[m]	DC	GEOSTR
1970.0	[m]	DC	GEOSTR
2000.0	[m]	DC	GEOSTR
2030.0	[m]	DC	GEOSTR
2060.0	[m]	DC	GEOSTR



2080.0	[m]	DC	GEOSTR
2100.0	[m]	DC	GEOSTR
2120.0	[m]	DC	GEOSTR
2140.0	[m]	DC	GEOSTR
2160.0	[m]	DC	GEOSTR
2180.0	[m]	DC	GEOSTR
2200.0	[m]	DC	GEOSTR
2220.0	[m]	DC	GEOSTR
2240.0	[m]	DC	GEOSTR
2260.0	[m]	DC	GEOSTR
2280.0	[m]	DC	GEOSTR
2300.0	[m]	DC	GEOSTR
2320.0	[m]	DC	GEOSTR
2340.0	[m]	DC	GEOSTR
2360.0	[m]	DC	GEOSTR
2380.0	[m]	DC	GEOSTR
2400.0	[m]	DC	GEOSTR
2430.0	[m]	DC	GEOSTR
2460.0	[m]	DC	GEOSTR
2490.0	[m]	DC	GEOSTR
2520.0	[m]	DC	GEOSTR
2550.0	[m]	DC	GEOSTR
2580.0	[m]	DC	GEOSTR
2610.0	[m]	DC	GEOSTR
2640.0	[m]	DC	GEOSTR
2670.0	[m]	DC	GEOSTR
2700.0	[m]	DC	GEOSTR
2730.0	[m]	DC	GEOSTR
2760.0	[m]	DC	GEOSTR
2790.0	[m]	DC	GEOSTR
2820.0	[m]	DC	GEOSTR
2850.0	[m]	DC	GEOSTR
2877.0	[m]	DC	GEOSTR
2883.0	[m]	DC	GEOSTR
2889.0	[m]	DC	GEOSTR
2894.0	[m]	SWC	GEOSTR
2901.0	[m]	DC	GEOSTR
2905.6	[m]	SWC	GEOSTR
2908.0	[m]	SWC	GEOSTR
2915.4	[m]	SWC	GEOSTR



2918.7	[m]	SWC	GEOSTR
2924.0	[m]	SWC	GEOSTR
2932.0	[m]	SWC	GEOSTR
2938.0	[m]	SWC	GEOSTR
2947.1	[m]	SWC	GEOSTR
2949.8	[m]	SWC	GEOSTR
2957.8	[m]	SWC	GEOSTR
2969.4	[m]	SWC	GEOSTR
2979.0	[m]	DC	GEOSTR
2988.0	[m]	DC	GEOSTR
2997.0	[m]	DC	GEOSTR
3006.0	[m]	DC	GEOSTR
3015.0	[m]	DC	GEOSTR
3024.0	[m]	DC	GEOSTR
3033.0	[m]	DC	GEOSTR
3042.0	[m]	DC	GEOSTR
3051.0	[m]	DC	GEOSTR
3057.0	[m]	DC	GEOSTR
3066.0	[m]	DC	GEOSTR
3075.0	[m]	DC	GEOSTR
3084.0	[m]	DC	GEOSTR
3093.0	[m]	DC	GEOSTR
3099.0	[m]	DC	GEOSTR
3111.0	[m]	DC	GEOSTR
3120.0	[m]	DC	GEOSTR
3129.0	[m]	DC	GEOSTR
3138.0	[m]	DC	GEOSTR
3147.0	[m]	DC	GEOSTR
3156.0	[m]	DC	GEOSTR
3165.0	[m]	DC	GEOSTR
3174.0	[m]	DC	GEOSTR
3183.0	[m]	DC	GEOSTR
3192.0	[m]	DC	GEOSTR
3201.0	[m]	DC	GEOSTR
3210.0	[m]	DC	GEOSTR
3219.0	[m]	DC	GEOSTR
3228.0	[m]	DC	GEOSTR
3237.0	[m]	DC	GEOSTR
3246.0	[m]	DC	GEOSTR
3255.0	[m]	DC	GEOSTR



3264.0	[m]	DC	GEOSTR
3273.0	[m]	DC	GEOSTR
3282.0	[m]	DC	GEOSTR
3291.0	[m]	DC	GEOSTR
3300.0	[m]	DC	GEOSTR
3309.0	[m]	DC	GEOSTR
3324.0	[m]	DC	GEOSTR
3340.0	[m]	DC	GEOSTR
3360.0	[m]	DC	GEOSTR
3370.0	[m]	DC	GEOSTR
3390.0	[m]	DC	GEOSTR
3400.0	[m]	DC	GEOSTR
3420.0	[m]	DC	GEOSTR
3430.0	[m]	DC	GEOSTR
3450.0	[m]	DC	GEOSTR
3460.0	[m]	DC	GEOSTR
3480.0	[m]	DC	GEOSTR
3490.0	[m]	DC	GEOSTR
3510.0	[m]	DC	GEOSTR
3520.0	[m]	DC	GEOSTR
3540.0	[m]	DC	GEOSTR
3545.0	[m]	DC	GEOSTR
3560.0	[m]	DC	GEOSTR
3570.0	[m]	DC	GEOSTR
3590.0	[m]	DC	GEOSTR
3600.0	[m]	DC	GEOSTR
3620.0	[m]	DC	GEOSTR
3630.0	[m]	DC	GEOSTR
3640.0	[m]	DC	GEOSTR
3649.0	[m]	DC	GEOSTR
3657.2	[m]	C	GEOSTR
3659.7	[m]	C	GEOSTR
3662.6	[m]	C	GEOSTR
3664.3	[m]	C	GEOSTR
3666.8	[m]	C	GEOSTR
3669.7	[m]	C	GEOSTR
3672.6	[m]	C	GEOSTR
3674.8	[m]	C	GEOSTR
3676.5	[m]	C	GEOSTR
3678.9	[m]	C	GEOSTR



3681.4 [m]	C	GEOSTR
3684.5 [m]	C	GEOSTR
3687.4 [m]	C	GEOSTR
3690.3 [m]	C	GEOSTR
3693.5 [m]	C	GEOSTR
3696.6 [m]	C	GEOSTR
3699.5 [m]	C	GEOSTR
3702.4 [m]	C	GEOSTR
3705.4 [m]	C	GEOSTR
3708.5 [m]	C	GEOSTR
3716.0 [m]	DC	GEOSTR
3725.0 [m]	DC	GEOSTR
3734.0 [m]	DC	GEOSTR
3743.0 [m]	DC	GEOSTR
3752.0 [m]	DC	GEOSTR
3761.0 [m]	DC	GEOSTR
3773.0 [m]	DC	GEOSTR
3782.0 [m]	DC	GEOSTR
3791.0 [m]	DC	GEOSTR
3800.0 [m]	DC	GEOSTR
3809.0 [m]	DC	GEOSTR
3818.0 [m]	DC	GEOSTR
3827.0 [m]	DC	GEOSTR
3836.0 [m]	DC	GEOSTR
3845.0 [m]	DC	GEOSTR
3854.0 [m]	DC	GEOSTR
3863.0 [m]	DC	GEOSTR
3872.0 [m]	DC	GEOSTR
3881.0 [m]	DC	GEOSTR
3890.0 [m]	DC	GEOSTR
3899.0 [m]	DC	GEOSTR
3908.0 [m]	DC	GEOSTR
3917.0 [m]	DC	GEOSTR
3926.0 [m]	DC	GEOSTR
3935.0 [m]	DC	GEOSTR
3944.0 [m]	DC	GEOSTR
3953.0 [m]	DC	GEOSTR
3962.0 [m]	DC	GEOSTR
3971.0 [m]	DC	GEOSTR
3980.0 [m]	DC	GEOSTR



3989.0	[m]	DC	GEOSTR
3998.0	[m]	DC	GEOSTR
4007.0	[m]	DC	GEOSTR
4016.0	[m]	DC	GEOSTR
4025.0	[m]	DC	GEOSTR
4034.0	[m]	DC	GEOSTR
4043.0	[m]	DC	GEOSTR
4052.0	[m]	DC	GEOSTR
4061.0	[m]	DC	GEOSTR
4070.0	[m]	DC	GEOSTR
4082.0	[m]	DC	GEOSTR

Oljeprøver i Sokkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
MDT		2928.30	0.00	OIL		YES
MDT		3654.00	0.00	OIL		YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
128	NORDLAND GP
582	UTSIRA FM
980	HORDALAND GP
2077	ROGALAND GP
2077	BALDER FM
2158	SELE FM
2213	LISTA FM
2325	VÅLE FM
2394	SHETLAND GP
2394	HARDRÅDE FM
2648	KYRRE FM
2807	SVARTE FM
2870	CROMER KNOLL GP
2870	RØDBY FM
2878	MIME FM



2883	VIKING GP
2883	DRAUPNE FM
2910	INTRA DRAUPNE FM SS
2913	HEATHER FM
2916	BRENT GP
2916	TARBERT FM
3068	NESS FM
3281	ETIVE FM
3301	RANNOCH FM
3304	OSEBERG FM
3311	DUNLIN GP
3311	DRAKE FM
3488	COOK FM
3515	AMUNDSEN FM
3645	STATFJORD GP
3645	NANSEN FM
3717	EIRIKSSON FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
AIT MSIP PEX HNGS	2700	3546
AIT PEX HNGS SS	3544	4091
MDT CMR GR	2870	3320
MDT CMR GR	3544	4058
MDT DPS GR	2922	2937
MDT GR	2910	2920
MDT GR	2911	2953
MWD - ARCVIS TELE	178	1212
MWD - ARCVIS TELE	3653	4083
MWD - PD ARCVIS TELE	1212	3653
MWD - TELE	126	178
VS14 GR	870	4080
XLROCK GR	2885	3053
XPT GR	2910	3309

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	178.0	36	178.0	0.00	
SURF.COND.	20	1202.1	26	1212.0	1.58	FIT
INTERM.	14	2787.3	17 1/2	2796.0	1.47	FIT
LINER	9 5/8	3543.8	12 1/4	3545.0	1.61	FIT
OPEN HOLE		4083.0	8 1/2	4083.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
180	1.41	30.0		XP-07	
1212	1.43	30.0		XP-07	
1593	1.45	34.0		XP-07	
2002	1.45	33.0		XP-07	
2590	1.41	27.0		XP-07	
2796	1.45	29.0		XP-07	
3047	1.32	19.0		XP-07	
3545	1.36	22.0		XP-07	
3768	1.39	23.0		XP-07	
4083	1.40	27.0		XP-07	