



Generell informasjon

Brønnbane navn	30/9-18
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	30/9-18
Seismisk lokalisering	NH 9111- RAD 1313 & KOLONNE 1021
Utvinningstillatelse	104
Boreoperatør	Norsk Hydro Produksjon AS
Boretillatelse	809-L
Boreinnretning	TREASURE SAGA
Boredager	29
Borestart	14.03.1995
Boreslutt	11.04.1995
Frigitt dato	11.04.1997
Publiseringsdato	19.12.2007
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	26.0
Vanndybde ved midlere havflate [m]	106.0
Totalt målt dybde (MD) [m RKB]	2994.0
Totalt vertikalt dybde (TVD) [m RKB]	2994.0
Maks inklinasjon [°]	3.3
Temperatur ved bunn av brønnbanen [°C]	115
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	DRAKE FM
Geodetisk datum	ED50
NS grader	60° 17' 38.69" N
ØV grader	2° 49' 22.59" E
NS UTM [m]	6684333.06
ØV UTM [m]	490211.40
UTM sone	31
NPDID for brønnbanen	2552



Brønnhistorie

General

Well 30/9-18 is located on the Bjørgvin Arch south of the Oseberg Sør Field and North of the 30/9-16 K Oseberg Sør Discovery. This is in the Northern North Sea. The well was drilled to clarify the Oseberg Sør development strategy. The primary objective was to establish the extent of the high-permeability Tarbert reservoir found in well 30/9-16. Secondary objectives were to test the lower Brent Group, the Cook Formation, and the Statfjord Formation.

Operations and results

Well 30/9-18 was spudded with the semi-submersible installation Treasure Saga on 14 March 1995 and drilled to TD at 2994 m in the Late Jurassic Drake Formation. The 24" hole was drilled from 193 m MD to 557 m MD. Shallow gas was predicted at 590 m MD. The 18 5/8" casing was set at 547 m MD. As the cement was displaced bubbles from the hole was observed indicating shallow gas. Displaced out the entire cement volume and filled the annulus with 1.3 sg mud. Mixed and pumped gas block cement around. The well was drilled with spud mud down to 557 m and with KCl/polymer mud from 557 m to TD.

Formation tops in the Tertiary and Jurassic sections came in slightly higher than prognosed. However, they were within the prognosed uncertainty range. The well penetrated the Brent Group reservoir zones and they were water bearing. Very weak oil shows were reported in the interval 2640 to 2780 m in the Heather/Tarbert intervals during drilling. Intra Heather Sandstone and Tarbert Formation combined contained 127 m gross sand (67.5 m net). The Ness Formation was 195 m thick with 54.5 m net sand. The Cook and Statfjord Formations were not drilled. RFT formation pressures gave three distinct and separate water gradients, one covering the Intra Heather sandstone/Tarbert Formation and two separate gradients covering the Ness Fm. The three water gradients indicated that there was possibly no pressure communication between the three zones. No cores were cut and no wire line fluid samples were taken.

The well was permanently abandoned on as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
560.00	2990.00

Borekaks tilgjengelig for prøvetaking?	YES
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Palynologiske preparater i Sokkeldirektoratet



Prøve dybde	Dybde enhet	Prøve type	Laboratorie
1400.0	[m]	DC	STRAT
1420.0	[m]	DC	STRAT
1440.0	[m]	DC	STRAT
1460.0	[m]	DC	STRAT
1480.0	[m]	DC	STRAT
1500.0	[m]	DC	STRAT
1520.0	[m]	DC	STRAT
1540.0	[m]	DC	STRAT
1560.0	[m]	DC	STRAT
1580.0	[m]	DC	STRAT
1600.0	[m]	DC	STRAT
1620.0	[m]	DC	STRAT
1630.0	[m]	DC	STRAT
1640.0	[m]	DC	STRAT
1660.0	[m]	DC	STRAT
1670.0	[m]	DC	STRAT
1680.0	[m]	DC	STRAT
1700.0	[m]	DC	STRAT
1720.0	[m]	DC	STRAT
1740.0	[m]	DC	STRAT
1760.0	[m]	DC	STRAT
1780.0	[m]	DC	STRAT
1790.0	[m]	DC	STRAT
1800.0	[m]	DC	STRAT
1820.0	[m]	DC	STRAT
1840.0	[m]	DC	STRAT
1860.0	[m]	DC	STRAT
1880.0	[m]	DC	STRAT
1900.0	[m]	DC	STRAT
1920.0	[m]	DC	STRAT
1940.0	[m]	DC	STRAT
1950.0	[m]	DC	STRAT
1960.0	[m]	DC	STRAT
1980.0	[m]	DC	STRAT
2000.0	[m]	DC	STRAT
2010.0	[m]	DC	STRAT
2020.0	[m]	DC	STRAT
2035.0	[m]	DC	STRAT
2055.0	[m]	DC	STRAT



2070.0	[m]	DC	STRAT
2080.0	[m]	DC	STRAT
2090.0	[m]	DC	STRAT
2110.0	[m]	DC	STRAT
2130.0	[m]	DC	STRAT
2135.0	[m]	DC	STRAT
2140.0	[m]	DC	STRAT
2145.0	[m]	DC	STRAT
2150.0	[m]	DC	STRAT
2170.0	[m]	DC	STRAT
2180.0	[m]	DC	STRAT
2190.0	[m]	DC	STRAT
2210.0	[m]	DC	STRAT
2230.0	[m]	DC	STRAT
2250.0	[m]	DC	STRAT
2270.0	[m]	DC	STRAT
2290.0	[m]	DC	STRAT
2310.0	[m]	DC	STRAT
2320.0	[m]	DC	STRAT
2330.0	[m]	DC	STRAT
2340.0	[m]	DC	STRAT
2350.0	[m]	DC	STRAT
2360.0	[m]	DC	STRAT
2370.0	[m]	DC	STRAT
2390.0	[m]	DC	STRAT
2410.0	[m]	DC	STRAT
2430.0	[m]	DC	STRAT
2450.0	[m]	DC	STRAT
2470.0	[m]	DC	STRAT
2490.0	[m]	DC	STRAT
2500.0	[m]	DC	STRAT
2510.0	[m]	DC	STRAT
2520.0	[m]	DC	STRAT
2530.0	[m]	DC	STRAT
2540.0	[m]	DC	STRAT
2545.0	[m]	DC	STRAT
2550.0	[m]	DC	STRAT
2559.0	[m]	DC	STRAT
2570.0	[m]	SWC	STRAT
2580.0	[m]	SWC	STRAT



2585.0	[m]	SWC	STRAT
2590.0	[m]	DC	STRAT
2596.0	[m]	SWC	STRAT
2602.0	[m]	DC	STRAT
2602.0	[m]	SWC	STRAT
2607.0	[m]	SWC	STRAT
2610.0	[m]	DC	STRAT
2614.0	[m]	SWC	STRAT
2620.0	[m]	SWC	STRAT
2620.0	[m]	DC	STRAT
2626.0	[m]	SWC	STRAT
2634.0	[m]	SWC	STRAT
2641.0	[m]	SWC	STRAT
2645.0	[m]	SWC	STRAT
2650.0	[m]	SWC	STRAT
2650.0	[m]	DC	STRAT
2653.0	[m]	SWC	STRAT
2660.0	[m]	DC	STRAT
2664.0	[m]	SWC	STRAT
2670.0	[m]	DC	STRAT
2675.0	[m]	DC	STRAT
2677.0	[m]	DC	STRAT
2681.0	[m]	SWC	STRAT
2685.0	[m]	DC	STRAT
2686.0	[m]	SWC	STRAT
2690.0	[m]	DC	STRAT
2700.0	[m]	DC	STRAT
2710.0	[m]	DC	STRAT
2720.0	[m]	DC	STRAT
2730.0	[m]	DC	STRAT
2740.0	[m]	DC	STRAT
2751.0	[m]	SWC	STRAT
2759.0	[m]	SWC	STRAT
2763.0	[m]	SWC	STRAT
2774.0	[m]	SWC	STRAT
2796.0	[m]	SWC	STRAT
2815.0	[m]	SWC	STRAT
2828.0	[m]	SWC	STRAT
2841.0	[m]	SWC	STRAT
2876.0	[m]	SWC	STRAT



2899.0	[m]	SWC	STRAT
2920.0	[m]	SWC	STRAT
2925.0	[m]	SWC	STRAT
2933.0	[m]	SWC	STRAT
2945.0	[m]	SWC	STRAT
2949.0	[m]	SWC	STRAT
2950.0	[m]	SWC	STRAT
2954.0	[m]	SWC	STRAT
2959.0	[m]	SWC	STRAT
2965.0	[m]	SWC	STRAT
2970.0	[m]	DC	STRAT
2980.0	[m]	DC	STRAT
2990.0	[m]	DC	STRAT

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
132	NORDLAND GP
672	UTSIRA FM
732	UNDIFFERENTIATED
815	HORDALAND GP
946	SKADE FM
965	UNDIFFERENTIATED
1110	NO FORMAL NAME
1200	UNDIFFERENTIATED
1272	NO FORMAL NAME
1347	UNDIFFERENTIATED
1417	GRID FM
1522	NO FORMAL NAME
2052	ROGALAND GP
2052	BALDER FM
2106	SELE FM
2155	LISTA FM
2320	VÅLE FM
2331	SHETLAND GP
2331	HARDRÅDE FM
2440	UNDIFFERENTIATED
2550	CROMER KNOLL GP
2550	RØDBY FM



2581	SOLA FM
2586	MIME FM
2595	VIKING GP
2595	DRAUPNE FM
2597	HEATHER FM
2623	INTRA HEATHER FM SS
2646	BRENT GP
2646	TARBERT FM
2750	NESS FM
2945	UNDIFFERENTIATED
2954	DUNLIN GP
2954	DRAKE FM

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
2552 30 9 18 COMPLETION REPORT AND LOG	pdf	4.23

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
BGT DLL LSS LDL MSFL GR AMS SP	525	2550
CST GR	2570	2965
DLL LSS MSFL GR SP AMS	2558	2990
LDL CNL FMS GR AMS	2558	2981
MWD RGD - GR RES DIR	132	2556
RFT HP GR AMS	2624	2873
VSP	290	2990

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	193.0	36	193.0	0.00	LOT
SURF.COND.	18 5/8	547.0	24	557.0	0.00	LOT
INTERM.	9 5/8	1538.0	12 1/4	1550.0	0.00	LOT





LINER	7	2557.0	8 1/2	2559.0	0.00	LOT
OPEN HOLE		2994.0	6	2994.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
194	1.05			WATER BASED	16.03.1995
350	1.15	19.0	11.0	WATER BASED	18.04.1995
557	1.05			WATER BASED	17.03.1995
557	1.05			WATER BASED	20.03.1995
557	1.05			WATER BASED	20.03.1995
557	1.20			WATER BASED	20.03.1995
773	1.20	22.0	10.0	WATER BASED	21.03.1995
1342	1.20	17.0	10.5	WATER BASED	23.03.1995
1550	1.25	19.0	11.0	WATER BASED	24.03.1995
1550	1.25	22.0	14.0	WATER BASED	28.03.1995
1550	1.25	22.0	13.0	WATER BASED	23.03.1995
2070	1.43	26.0	13.5	WATER BASED	28.03.1995
2122	1.43	30.0	14.0	WATER BASED	28.03.1995
2350	1.15	18.0	10.5	WATER BASED	18.04.1995
2420	1.43	28.0	15.0	WATER BASED	29.03.1995
2420	1.43	27.0	13.5	WATER BASED	28.03.1995
2459	1.43	27.0	12.5	WATER BASED	30.03.1995
2559	1.43	29.0	13.0	WATER BASED	31.03.1995
2559	1.43	29.0	13.0	WATER BASED	03.04.1995
2564	1.15	9.0	8.5	WATER BASED	03.04.1995
2651	1.15	149.0	9.0	WATER BASED	03.04.1995
2723	1.15	14.0	8.5	WATER BASED	04.04.1995
2858	1.15	18.0	11.0	WATER BASED	05.04.1995
2947	1.15	18.0	11.5	WATER BASED	07.04.1995
2994	1.15	18.0	11.0	WATER BASED	07.04.1995
2994	1.15	18.0	11.0	WATER BASED	18.04.1995

Trykkplott

Porertrykksdataene kommer fra logging i brønnen hvis ingen annen kilde er oppgitt. I noen brønner der trykk ikke er logget, er det brukt informasjon fra formasjonstester eller brønnspark. Trykkdataene er rapportert inn til Oljedirektoratet og videre prosessert og kvalitetssikret av IHS Markit.





Dokument navn	Dokument format	Dokument størrelse [KB]
2552 Formation pressure (Formasjonstrykk)	pdf	0.23

