



Generell informasjon

Brønnbane navn	33/9-5
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	STATFJORD
Funn	33/12-1 Statfjord
Brønn navn	33/9-5
Seismisk lokalisering	LINE MNG-16 SP.778
Utvinningstillatelse	037
Boreoperatør	Mobil Exploration Norway INC
Boretillatelse	142-L
Boreinnretning	ROSS RIG (1)
Boredager	67
Borestart	27.10.1975
Boreslutt	01.01.1976
Frigitt dato	01.01.1978
Publiseringsdato	12.04.2016
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	BRENT GP
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	152.0
Totalt målt dybde (MD) [m RKB]	3157.0
Temperatur ved bunn av brønnbanen [°C]	76
Eldste penetrerte alder	LATE TRIASSIC
Eldste penetrerte formasjon	STATFJORD GP
Geodetisk datum	ED50
NS grader	61° 20' 47.87" N
ØV grader	1° 56' 51.7" E
NS UTM [m]	6802013.31
ØV UTM [m]	443705.30



UTM sone	31
NPDID for brønnbanen	410

Brønnhistorie

General

Well 33/9-5 was drilled on the northern part of the Statfjord structure on Tampen Spur in the northern North Sea. The objective was to appraise the northern extension of the Statfjord Field with the Brent Group as primary target. The Brent Group had previously proved oil bearing in wells 33/9-3 and 33/9-4 on the northern part of the structure. The well was positioned to penetrate the upper Brent reservoir at 2522 m MSL, 62 meters above the known field water level. The Statfjord Group was a secondary objective.

Operations and results

Appraisal well 33/9-5 was spudded with the semi-submersible installation Ross Rig on 27 October 1975 and drilled to TD at 3157 m in Late Triassic sediments of the Statfjord Group.

Top Brent Group (Tarbert Formation) was encountered at 2605 m, 57.8 m low to prognosis. As with other Brent Group oil wells in the Statfjord Field, high total gas readings (70 000 ppm) were encountered when the reservoir was penetrated. Using the field pay cut off value of 65% water saturation, the oil/water contact depth as measured from the CPI log is 2616.4 m (2591.4 MSL), which is 7.3 meters deeper than the main field water level. The resulting gross pay interval is 11.6 meters of which 100% is net pay using CPI field cut off values of 65% water saturation, 40% v-clay or 12% porosity. Average CPI measured porosity in the pay section is 22.1% and water saturation is 37%.

The Statfjord Group was penetrated at 2998 m and was found water wet.

One core was cut from 2611.5 to 2628.35 m with 88.7% recovery. The core to log depth shift was estimated to be -2.3 m. FIT fluid samples were taken at 2624.5 m (failed test), 2617.0 m (water with trace oil), 2611.0 m (water with trace mud), 2609.0 m (water with trace mud), 2607.0 m (35.8 °API oil and water), 2650.0 m (water with trace mud), and 2607.8 m (water only).

The well was permanently abandoned on 1 January 1976 as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
260.00	3157.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2611.5	2628.0	[m]

Total kjerneprøve lengde [m]	16.5
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



2611-2614m



2614-2616m



2616-2619m



2619-2621m



2621-2624m



2624-2627m



2627-2628m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
2556.0	[m]	DC	UOS
2562.0	[m]	DC	UOS
2568.0	[m]	DC	UOS
2574.0	[m]	DC	UOS
2580.0	[m]	DC	UOS
2586.0	[m]	DC	UOS
2592.0	[m]	DC	UOS
2598.0	[m]	DC	UOS
2604.0	[m]	DC	UOS
2612.0	[m]	DC	UOS
2613.0	[m]	DC	UOS



2615.0	[m]	DC	UOS
2616.0	[m]	DC	UOS
2618.8	[m]	DC	UOS
2619.0	[m]	DC	UOS
2622.0	[m]	DC	UOS
2622.2	[m]	DC	UOS
2624.0	[m]	DC	UOS
2625.0	[m]	DC	UOS
2627.0	[m]	DC	UOS
2628.0	[m]	DC	UOS
2631.0	[m]	DC	UOS
2637.0	[m]	DC	UOS
2643.0	[m]	DC	UOS
2649.0	[m]	DC	UOS
2655.0	[m]	DC	UOS
2661.0	[m]	DC	UOS
2667.0	[m]	DC	UOS
2673.0	[m]	DC	UOS
2679.0	[m]	DC	UOS

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
177	NORDLAND GP
895	UTSIRA FM
1008	HORDALAND GP
1674	ROGALAND GP
1674	BALDER FM
1706	SELE FM
1863	SHETLAND GP
2546	CROMER KNOLL GP
2556	VIKING GP
2556	DRAUPNE FM
2558	HEATHER FM
2605	BRENT GP
2605	TARBERT FM
2652	NESS FM
2718	ETIVE FM
2774	DUNLIN GP



2998 [STATFJORD GP](#)

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
410 01 WDSS General Information	pdf	0.27

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
410 33 9 5 COMPLETION LOG	pdf	1.27
410 33 9 5 COMPLETION REPORT	pdf	4.05

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
BGT	450	1895
BHC	451	1900
CDM AP	1888	3155
DIR	450	1895
DLL	2449	3157
DLL MSFL	2549	3157
FDC CNL	1888	3157
IES	460	3157
ISF SON	451	3155
MUD	460	3157
VELOCITY	451	3155

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	252.0	36	252.0	0.00	
SURF.COND.	20	456.0	26	460.0	0.00	
INTERM.	13 3/8	1889.0	17 1/2	1903.0	0.00	
INTERM.		3158.0	12 1/4	3158.0	0.00	





Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	flytegrense [Pa]	Type slam	Dato, måling
252	1.22			Waterbased	
460	1.10			Waterbased	
1332	1.13			Waterbased	
1555	1.20			Waterbased	
1973	1.56			Waterbased	
2259	1.58			Waterbased	
2608	1.50			Waterbased	
2794	1.62			Waterbased	

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]
410 Formation pressure (Formasjonstrykk)	PDF	0.22

