



Generell informasjon

Brønnbane navn	33/9-8
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	STATFJORD NORD
Funn	33/9-8 Statfjord Nord
Brønn navn	33/9-8
Seismisk lokalisering	
Utvinningstillatelse	037
Boreoperatør	Mobil Exploration Norway INC
Boretillatelse	169-L
Boreinnretning	DEEPSEA SAGA
Boredager	100
Borestart	11.11.1976
Boreslutt	18.02.1977
Frigitt dato	18.02.1979
Publiseringsdato	30.09.2015
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	LATE JURASSIC
1. nivå med hydrokarboner, formasjon.	INTRA DRAUPNE FM SS
Avstand, boredekk - midlere havflate [m]	26.0
Vanndybde ved midlere havflate [m]	265.0
Totalt målt dybde (MD) [m RKB]	3085.0
Temperatur ved bunn av brønnbanen [°C]	109
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	STATFJORD GP
Geodetisk datum	ED50
NS grader	61° 26' 17.44" N
ØV grader	1° 55' 4.87" E
NS UTM [m]	6812236.26
ØV UTM [m]	442286.97



UTM sone	31
NPDID for brønnbanen	413

Brønnhistorie

General

Well 33/9-8, was drilled on a prospect north of the main Statfjord Field in the Tampen Spur area in the northern North Sea. The primary objective was to test sandstones in the Brent Group. Secondary objective was the Statfjord Group

Operations and results

Wildcat well 33/9-8 was spudded with the semi-submersible installation Deepsea Bergen on 11 November 1976 and drilled to TD at 3085 m in the Statfjord Group. The original hole was abandoned at 2974 with stuck pipe. A technical sidetrack was kicked off from 2533 m. Top Brent Group is 6 m deeper in the sidetrack compared to in the original hole.

The sand and sand stringers generally associated with the lower portion of the Paleocene in the area were not developed in 33/9-8. An oil filled Intra-Draupne Formation sandstone was penetrated at 2670 m. This was the first encounter of Late Jurassic sandstone in the 037 License area. The gross thickness of this sandstone is 45.8 m. Net sand was found to be 34.8 m with 27% average porosity, based on log analysis. The whole sand was oil filled down to top Heather Formation at 2716 m. The Brent Group sandstones was encountered at 2740 m with oil down to the OWC at 2741.5 m. Gross thickness of the Brent Group sandstones was 140.3 m. Net sand was found to be 124 m with 22% average porosity. The secondary objective Statfjord Group was water wet without shows.

Three cores were cut in Late Jurassic Viking Group the interval 2670 to 2724.8 m (54.8m). The core recoveries were 2670 to 2671.27 m (7%), 2688.5 to 2706.26 m (97%), and 2706.8 to 2724.5 m (98%) for cores one, two, and three, respectively. The cores were cut in the original hole. Add six meters to the core depths to match with the well logs, which were run in the sidetrack. No fluid samples were taken on wire line

The well was permanently abandoned on 18 February 1977 as an oil discovery.

Testing

Three drill stem tests were performed.

DST 1 tested the interval 2745.5 to 2748.5 m in the Brent Group. The aim was to locate the oil/water contact. The test produced 1313 m3 water/day through a 3/4" choke. A trace of oil appeared with the water near the end of the test. The bottom hole temperature in the test was 99.2 °C

DST 2 tested the interval 2737.0 to 2741.5 m across the border between the Heather Formation and the Brent Group. The aim was to locate the oil/water contact. This test produced 1003 Sm3 oil and 32900 Sm3 gas /day through a 3/4" choke. The GOR was 33 Sm3/Sm3, the oil gravity was 37.4 °API and the gas gravity was 0.752 (air = 1). The bottom hole temperature in the test was 100 °C.

DST 3 tested the interval 2683.0 to 2686.0 m in Intra Draupne Formation sandstone. The test produced 1997 Sm3 oil and 80730 Sm3 gas /day through a 3/4" choke. The GOR was 40 Sm3/Sm3, the oil gravity was 38.1 °API, and the gas gravity was 0.757 (air = 1). The bottom hole temperature in the test was 95.6 °C.



Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
390.00	3085.00

Borekaks tilgjengelig for prøvetaking?	NO
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2670.0	2671.0	[m]
2	2688.5	2706.3	[m]
3	2706.8	2724.5	[m]

Total kjerneprøve lengde [m]	36.5
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



2670-2671m



2689-2690m



2692-2693m



2694-2695m



2697-2698m



2700-2701m



2702-2703m



2704-2706m



2706-2709m



2709-2712m





2712-2714m 2714-2717m 2717-2720m 2720-2723m 2723-2724m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
2671.0	[m]	C	
2688.9	[m]	C	
2689.0	[m]	C	
2694.0	[m]	C	
2694.0	[m]	C	OD
2700.2	[m]	C	OD
2700.5	[m]	C	
2701.0	[m]	C	
2701.2	[m]	C	
2702.0	[m]	C	
2702.0	[m]	C	OD
2702.3	[m]	C	
2703.0	[m]	C	
2704.7	[m]	C	OD
2705.4	[m]	C	
2706.0	[m]	C	
2708.0	[m]	C	
2709.0	[m]	C	
2710.0	[m]	C	OD
2710.0	[m]	C	
2710.4	[m]	C	OD
2710.9	[m]	C	
2713.1	[m]	C	OD
2714.0	[m]	C	OD
2714.9	[m]	C	OD
2716.7	[m]	C	
2719.3	[m]	C	
2720.0	[m]	C	OD
2722.1	[m]	C	OD
2722.1	[m]	C	
2723.0	[m]	C	OD

Litostratigrafi



Topp Dyb [mMD RKB]	Litostrat. enhet
290	NORDLAND GP
950	UTSIRA FM
1019	HORDALAND GP
1664	ROGALAND GP
1715	LISTA FM
1830	SHETLAND GP
2650	CROMER KNOLL GP
2664	VIKING GP
2664	DRAUPNE FM
2716	HEATHER FM
2740	BRENT GP
2881	DUNLIN GP
3055	STATEJORD GP

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
413 01 WDSS General Information	pdf	0.26

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
413 33 9 8 COMPLETION LOG	pdf	2.09
413 33 9 8 COMPLETION REPORT	pdf	8.31

Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsven til størrelse [mm]
1.0	2746	2749	12.5
2.0	2737	2742	19.0
3.0	2683	2686	19.0





Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningstrykk [MPa]	Bunnhullstrykk [MPa]	Borehullstemperatur [°C]
1.0				
2.0				
3.0				

Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstyngde rel. luft	GOR [m3/m3]
1.0					
2.0	1005	32104	0.820	0.752	
3.0	2000	80731	0.840	0.757	

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL	1656	3053
CDM	1856	3084
DLL MSFL	1857	3085
FDC CNL	698	3084
ISF SON	386	3083
SRS	385	2945

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	386.0	36	387.0	0.00	
SURF.COND.	20	696.0	26	710.0	0.00	
INTERM.	13 3/8	1856.0	17 1/2	1870.0	0.00	
INTERM.	9 5/8	3073.0	12 1/4	3085.0	0.00	

Tynnslip i Søkeldirektoratet

Dybde	Enhet
2694.00	[m]
2699.00	[m]
2702.00	[m]



2760.00	[m]
2690.00	[m]
2696.00	[m]
2700.00	[m]
2704.00	[m]
2710.00	[m]
2746.00	[m]