



Generell informasjon

Brønnbane navn	30/6-2
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	OSEBERG
Funn	30/6-1 Oseberg
Brønn navn	30/6-2
Seismisk lokalisering	Line 703. 125. SP643
Utvinningstillatelse	053
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	225-L
Boreinnretning	DEEPSEA SAGA
Boredager	78
Borestart	24.09.1979
Boreslutt	11.12.1979
Frigitt dato	11.12.1981
Publiseringsdato	08.12.2015
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	OIL/GAS
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]	106.0
Totalt målt dybde (MD) [m RKB]	2890.0
Totalt vertikalt dybde (TVD) [m RKB]	2889.0
Maks inklinasjon [°]	2.5
Temperatur ved bunn av brønnbanen [°C]	78
Eldste penetrerte alder	TRIASSIC
Eldste penetrerte formasjon	HEGRE GP
Geodetisk datum	ED50
NS grader	60° 32' 12.16" N



ØV grader	2° 46' 11.11" E
NS UTM [m]	6711366.11
ØV UTM [m]	487365.31
UTM sone	31
NPDID for brønnbanen	381

Brønnhistorie

General

Well 30/6-2 was drilled to appraise the 30/6-1 Oseberg discovery. Well 30/6-1 found gas in the Brent Group and water-filled reservoirs in the Dunlin and Statfjord groups. The primary objectives were to test the Dunlin and Statfjord sandstones in a structurally higher setting on the Oseberg Alpha structure. Secondary objective was appraisal of the Brent Group hydrocarbons.

Operations and results

Appraisal well 30/6-2 was spudded with the semi-submersible installation Deepsea Saga on 24 September 1979 and drilled to TD at 2890 m in the Triassic Hegre Group. Tight hole became a serious problem at 1313 m. This was cured with salt water and diesel addition. Five days were counted as non-productive due to bad weather and fishing for lost objects in hole. The well was drilled with spud mud down to 736 m, and with Chromium-Lignosulphonate/bentonite mud from 736 m to TD. After the diesel addition at 1313 m the mud contained 8% diesel. The diesel content became slowly diluted to 0.25% at TD.

The Brent Group was penetrated from 2191 to 2237. It is 46 m thick and gas bearing. The hydrocarbon/water contact was not seen in the well. The underlying Dunlin and Statfjord groups were both water bearing. Oil shows were described on cuttings and 39% water saturation was calculated, from top Brent and all through the Shetland Group up to 2165 m. Further oil shows on cuttings and core were described at 1945 to 1955 m in the Balder Formation, on cores and cuttings in the Dunlin Group, and on the Statfjord core.

A total of seven cores were recovered in the interval from 2202 to 2238.5 m in the Brent Group, 2435 m to 2437.5 m, and 2444.5 to 2454.5 m in the Dunlin Group, and 2571 to 2577 m in the top of the Statfjord Group. An RFT gas sample was taken at 2222.3 m.

The well was permanently abandoned on 11 December as a gas/condensate appraisal well.

Testing

A drill stem test was performed from the interval 2212 to 2222 m.

The test produced 722000 Sm³ gas and 212 Sm³ oil /day through a 1" choke. The GOR was 3400 Sm³/Sm³, the oil gravity was 59 °API, and the gas gravity was 0.66 (air = 1). Water, sand or H₂S were not observed, but 0.3 - 0.6% CO₂ was recorded.

Borekaks i Sokkeldirektoratet



Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
180.00	2890.00

Borekaks tilgjengelig for prøvetaking?	YES
--	-----

Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2202.0	2205.2	[m]
2	2205.5	2209.3	[m]
3	2210.0	2227.5	[m]
4	2227.5	2237.8	[m]
5	2435.0	2437.5	[m]
6	2444.5	2452.3	[m]
7	2571.0	2577.2	[m]

Total kjerneprøve lengde [m]	51.3
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



2202-2204m



2204-2205m



2205-2208m



2208-2209m



2210-2212m



2212-2215m



2215-2218m



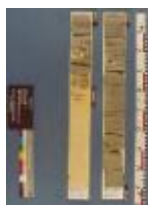
2218-2220m



2220-2223m



2223-2226m





Palynologiske preparater i Sakkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
8100.0	[ft]	C	
8200.0	[ft]	DC	
8300.0	[ft]	DC	
8400.0	[ft]	DC	
8500.0	[ft]	DC	
8600.0	[ft]	DC	
8700.0	[ft]	DC	
8800.0	[ft]	DC	
10760.0	[ft]	DC	
10860.0	[ft]	DC	
10950.0	[ft]	DC	
11060.0	[ft]	DC	
11160.0	[ft]	DC	
11250.0	[ft]	DC	
11360.0	[ft]	DC	
11460.0	[ft]	DC	
11500.0	[ft]	DC	
11540.0	[ft]	DC	
11600.0	[ft]	DC	
11700.0	[ft]	DC	
11800.0	[ft]	DC	



11900.0	[ft]	DC	
12000.0	[ft]	DC	
12110.0	[ft]	DC	
12200.0	[ft]	DC	
12300.0	[ft]	DC	
12390.0	[ft]	DC	
12490.0	[ft]	DC	
12600.0	[ft]	DC	
12690.0	[ft]	DC	
12790.0	[ft]	DC	

Oljeprøver i Sökkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
DST	DST1A	2212.00	2222.00	CONDE NSATE	01.12.1979 - 00:00	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
131	NORDLAND GP
650	UTSIRA FM
863	HORDALAND GP
1935	ROGALAND GP
1935	BALDER FM
1990	SELE FM
2082	LISTA FM
2165	SHETLAND GP
2191	BRENT GP
2191	NESS FM
2211	ETIVE FM
2237	DUNLIN GP
2237	DRAKE FM
2431	COOK FM
2445	BURTON FM
2513	AMUNDSEN FM
2568	STATFJORD GP



2808 [HEGRE GP](#)

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
381_1	pdf	0.84
381_2	pdf	0.85

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
381_01_WDSS_General_Information	pdf	0.11
381_02_WDSS_completion_log	pdf	0.19

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
381_30_6_2_COMPLETION_REPORT_AND_LOG	pdf	29.34

Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsven til størrelse [mm]
1.0	2212	2222	19.1

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

Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstyngde rel. luft	GOR [m3/m3]
1.0	191	646000	0.740	0.650	3397





Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL GR	280	2378
DLL MSFL GR	1702	2885
FDC CNL GR CAL	1702	2886
FDC GR CAL	900	1713
HDT	1702	2886
ISF SON GR SP	125	2885
VELOCITY	655	2880

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	177.0	36	178.5	0.00	LOT
SURF.COND.	20	901.0	26	915.0	1.80	LOT
INTERM.	13 3/8	1704.0	17 1/2	1715.0	1.74	LOT
INTERM.	9 5/8	2389.0	12 1/4	2400.0	1.76	LOT
OPEN HOLE		2890.0	8 1/2	2890.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	flytegrense [Pa]	Type slam	Dato, måling
480	1.10	44.0		waterbased	
880	1.06	39.0		waterbased	
925	1.10	50.0		waterbased	
1085	1.12	42.0		waterbased	
1375	1.30			waterbased	
1560	1.35			waterbased	
1715	1.40			waterbased	
1980	1.50			waterbased	
2400	1.34			waterbased	
2442	1.35	53.0		waterbased	