



Generell informasjon

Brønnbane navn	2/11-5
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	HOD
Funn	2/11-2 Hod
Brønn navn	2/11-5
Seismisk lokalisering	
Utvinningstillatelse	033
Boreoperatør	Amoco Norway Oil Company
Boretillatelse	214-L
Boreinnretning	DYVI ALPHA
Boredager	49
Borestart	18.05.1979
Boreslutt	05.07.1979
Frigitt dato	05.07.1981
Publiseringsdato	22.03.2013
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	OIL SHOWS
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	72.0
Totalt målt dybde (MD) [m RKB]	2945.0
Totalt vertikalt dybde (TVD) [m RKB]	2944.0
Maks inklinasjon [°]	4.4
Temperatur ved bunn av brønnbanen [°C]	106
Eldste penetrerte alder	EARLY CRETACEOUS
Eldste penetrerte formasjon	RØDBY FM
Geodetisk datum	ED50
NS grader	56° 9' 57.7" N
ØV grader	3° 26' 6.42" E
NS UTM [m]	6224781.27
ØV UTM [m]	527022.05



UTM sone	31
NPDID for brønnbanen	288

Brønnhistorie

**General**

Well 2/11-5 was drilled on the western lobe of the Hod Field to test the Late Cretaceous Chalk section. The well was located 1.8 km SSE of 2/11-2 which tested oil from a very thin Chalk section of the Lower Hod Formation. Structural interpretations were made showing a NW-SE trending graben traversing the West Hod lobe. Based on a model from East Hod, it was expected that the porous Tor Formation should be preserved below the unconformity within this structure.

Operations and results

Well 2/11-5 was spudded with the semi-submersible installation Dyvi Alpha on 18 May 1979 and drilled to TD at 2945 m in the Early Cretaceous Rødby Formation. No significant problem was encountered in the operations, however six days were spent repairing the BOP stack before it could be run and two days were spent while mixing oil-based mud. The well was drilled with seawater, bentonite and CMC EHV down to 1285 m, with gyp/CMC mud from 1285 m to 2320 m, with lignosulphonate mud from 2320 m to 2765 m, and with oil based "Oilfaze" mud from 2765 m to TD.

The Paleocene Ash Marker (Balder Formation) was encountered at 2715 m; 105 m low to prognosis. The top of the Chalk Group, Ekofisk Formation was encountered at 2822 m; 117 m low to prognosis. In total, the Chalk section was found to be 98 m thick, whereas 300 m was predicted. These discrepancies reflect the effects of the shallow gas in the area on the seismic data. The velocity corrections which were applied to the seismic were too large. As a consequence, the Chalk Group within the Graben was found below the oil-water contact of the area and no moveable hydrocarbons were encountered. Frequent oil shows were reported however, starting in the upper part of the Hordaland Group:

1470 - 1575 m: Appr.100% dull yellow fluorescence w/slow white streaming cut, strong odour.

1575 - 1760 m: 20-100% dull yellow fluorescence w/slow white streaming cut, large pieces bleeding gas.

1760 - 2050 m: 5-20% dull yellow fluorescence w/slow white streaming cut.

2050 - 2715 m: 100% dull to golden yellow fair to good fluorescence; moderate to fast streaming white cut; fair to good oil stain.

2715 - 2737 m: 20-50%, fair dull golden fluorescence and fair cut.

2825 - 2900 m: 20-80%, dull yellow/ orange fluorescence. No to fair cut.

No conventional cores were cut in well 2/11-5. Out of 25 sidewall cores 17 were recovered in the Late Cretaceous chalk. No wire line fluid samples were taken.

The well was permanently abandoned on 5 July 1979 as a well with shows.

Testing

No drill stem test was performed.



Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
165.00	2867.50
Borekaks tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
94	NORDLAND GP
1475	HORDALAND GP
2715	ROGALAND GP
2715	BALDER FM
2737	SELE FM
2822	SHETLAND GP
2822	EKOFISK FM
2835	TOR FM
2855	HOD FM
2920	CROMER KNOLL GP
2920	RØDBY FM

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
288_01_WDSS_General_Information	pdf	0.10
288_02_WDSS_completion_log	pdf	0.20

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
288_2_11_5_Completionlog	pdf	1.95
288_2_11_5_Completion_report	pdf	14.15
288_2_11_5_Geological_summary	pdf	0.73

Logger





Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
BHC AL IEL GR SP	168	356
BHC AL IEL GR SP	295	766
BHC AL IEL GR SP	1274	2777
BHC AL IEL GR SP	2690	2943
CBL VDL GR CCL	1	1250
CBL VDL GR CCL	2000	2723
CDL CDN GR CAL	0	0
DIP	1277	2645
DIP	2765	2943
VELOCITY	146	2901

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	170.0	36	172.0	0.00	LOT
SURF.COND.	20	351.0	26	358.0	1.48	LOT
INTERM.	13 3/8	1278.0	17 1/2	1278.0	1.92	LOT
INTERM.	9 5/8	2768.0	12 1/4	2781.0	1.84	LOT
OPEN HOLE		2945.0	8 1/2	2945.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
358	1.04	35.0		waterbased	
1170	1.07	30.0		waterbased	
1683	1.59	38.0		waterbased	
1980	1.72	75.0		waterbased	
2387	1.75	95.0		waterbased	
2707	1.80	52.0		waterbased	
2781	1.74	56.0		waterbased	