Generell informasjon

Brønnbane navn	30/11-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	30/11-1
Seismisk lokalisering	LINE 060004 SP.2805
Utvinningstillatelse	035
Boreoperatør	A/S Norske Shell
Boretillatelse	122-L
Boreinnretning	OCEAN VOYAGER
Boredager	38
Borestart	05.02.1975
Boreslutt	14.03.1975
Frigitt dato	14.03.1977
Publiseringsdato	10.08.2013
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	24.0
Vanndybde ved midlere havflate [m]	114.0
Totalt målt dybde (MD) [m RKB]	2682.0
Maks inklinasjon [°]	3
Eldste penetrerte alder	LATE CRETACEOUS
Eldste penetrerte formasjon	SHETLAND GP
Geodetisk datum	ED50
NS grader	60° 0' 22.43'' N
ØV grader	2° 31' 16.2'' E
NS UTM [m]	6652357.26
ØV UTM [m]	473295.63
UTM sone	31
NPDID for brønnbanen	396

Brønnhistorie

General

Well 30/11-1 was drilled in the Fensal Sub-basin between the Frigg area and the Stord Basin in the North Sea. The primary objective was the Eocene Frigg sand, which was gas bearing in the Frigg, East Frigg, Northeast Frigg, Odin and Heimdal fields to the west and south. Secondary objectives were sands of Paleocene age.

Operations and results

Wildcat well 30/11-1 was spudded with the semi-submersible installation Ocean Voyager on 5 February 1975 and drilled to TD at 2682 m in the Late Shetland Group. No significant problem was encountered in the operations. The well was drilled with seawater and viscous slugs down to 469 m, and with a lignosulphonate mud from 469 m to TD.

Four zones of interest were encountered in the well, namely the Frigg sand, Cod sand, Danian sand and Late Cretaceous limestone. All four intervals were interpreted as being water bearing.

From petrophysical analysis the Frigg Formation had 68 m net sand (N/G = 0.9) in the interval 1952.5 to 2026.9 m. The average porosity is 32%. The "Cod sand" (Sele and Hermod formations) from 2211.0 to 2354.3 m had 102 m net sand (N/G = 0.71) with 36% average porosity. The "Danian sand" (Ty Formation) from 2586.8 to 2638.7 m) had 43 m net sand (N/G = 0.83) with 25% average porosity. The Late Cretaceous limestone was described as shaly in parts, but clean limestone intervals had porosities from 4.5 to 7%. Gas readings were low in the well, and the only oil show described was "very, very faint solvent cut fluorescence" in the Frigg Sand.

Two cores were cut in the interval 1978.2 to 1994.9 m. No fluid sample was taken.

The well was permanently abandoned on 14 March 1975 as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
243.84	2682.24

Borekaks tilgjengelig for prøvetaking?	YES

Borekjerner i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	6490.0	6520.0	[ft]
2	6521.0	6534.2	[ft]

Total kjerneprøve lengde [m]	13.2
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
138	NORDLAND GP
492	UTSIRA FM
1237	HORDALAND GP
1465	GRID FM
1953	FRIGG FM
2155	ROGALAND GP
2155	BALDER FM
2204	SELE FM
2218	HERMOD FM
2354	LISTA FM
2587	TY FM
2643	SHETLAND GP

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
396_01_WDSS_General_Information	pdf	0.26

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
396_30_11_1_Completion_log	pdf	1.15
396_30_11_1_Completion_report	pdf	18.30
396_30_11_1_COMPLETION_REPORT_AND_LOG	pdf	11.62

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
BHC	460	1237
BHCC	1223	2679
CDM	1223	2682
FDC CNL	1905	2679
GR	137	460
IES	460	2681

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	223.0	36	235.0	0.00	
SURF.COND.	20	460.0	26	469.0	0.00	
INTERM.	13 3/8	1223.0	17 1/2	1234.0	0.00	
OPEN HOLE		2682.0	8 1/2	2682.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
469	1.04			waterbased	
1238	1.13			waterbased	
2682	1.22			waterbased	