Generell informasjon

Brønnbane navn	25/2-9
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	ØST FRIGG
Funn	25/2-1 Øst Frigg
Brønn navn	25/2-9
Seismisk lokalisering	EL 8403 - 410 SP. 270
Utvinningstillatelse	026
Boreoperatør	Elf Petroleum Norge AS
Boretillatelse	470-L
Boreinnretning	NORTRYM
Boredager	40
Borestart	15.06.1985
Boreslutt	24.07.1985
Frigitt dato	24.07.1987
Publiseringsdato	17.12.2003
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	OIL/GAS
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	EOCENE
1. nivå med hydrokarboner, formasjon.	FRIGG FM
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	112.5
Totalt målt dybde (MD) [m RKB]	2297.0
Totalt vertikalt dybde (TVD) [m RKB]	2297.0
Temperatur ved bunn av brønnbanen [°C]	57
Eldste penetrerte alder	EOCENE
Eldste penetrerte formasjon	BALDER FM
Geodetisk datum	ED50
NS grader	59° 53' 10.16'' N
ØV grader	2° 22' 15.09'' E

NS UTM [m]	6639054.92
ØV UTM [m]	464786.03
UTM sone	31
NPDID for brønnbanen	477

Brønnhistorie

General

Well 25/2-9 was designed to drill an assumed top in the eastern part of the Frigg East Beta structure, one of the Frigg Satellites, discovered by well 25/2-1 in 1973. The main objects of this well was to reveal petrophysical characteristics in an area where development wells could be located, to appraise the gas column height and gas in place, to get static formation pressure in order to estimate communication with the main Frigg field, and to obtain cores from the upper part of the Frigg Formation and the Balder formation for static and dynamic petrophysical measurements. Prognosed depth of the Frigg Formation was 1922 m, and planned TD was 2450 m.

Operations and results

Appraisal well 25/2-9 was spudded with Golar Nor Offshore A/S semi-submersibel rig Nortrym on 14 June 1985 and completed 24 July 1985 at a depth of 2297 m in the Paleocene Balder Formation. At 2297 m 800 l/min of mud was lost due to a leakage between 13 3/4" casing and 20" casing. The 9 5/8" casing was set to 888 m and the well was gradually brought under control. During this operation a part of the under-reamer was lost into the hole, and fishing went on for two days.

Top Frigg came in at 1935 m with hydrocarbons from 1935.9 m. Gas/oil contact was encountered at 1960 m, and an oil/water contact at 1972 m with brown oil stain on cuttings down to 2008 m. A total of 12 cores were cut with a total length of 214.25 m with 86% recovery. Ten cores were cut from 1939 m to 2145 m in the upper Frigg Formation, across the hydrocarbon bearing zone and all fluid contacts and two cores were cut from 2220 m to 2256 m in the tuffaceous Balder Formation. The cores consisted mainly of sands, more or less consolidated.

The well was plugged and abandoned as an oil and gas discovery.

Testing

No drill stem test was performed

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
200.00	2292.00

Borekaks tilgjengelig for prøvetaking?	YES

Borekjerner i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	1939.4	1957.0	[m]
2	1959.6	1985.0	[m]
3	1987.6	2013.0	[m]
4	2015.3	2033.0	[m]
5	2034.0	2036.8	[m]
6	2060.8	2074.0	[m]
8	2080.0	2103.3	[m]
9	2107.0	2117.9	[m]
11	2220.0	2236.9	[m]
12	2238.2	2255.0	[m]

Total kjerneprøve lengde [m]	170.1
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder


1939-1942m


1942-1945m


1945-1951m


1946-1948m


1955-1952m


1952-1955m


1955-1957m


1959-1963m


1962-1967m


1963-1966m


1969-1971m


1971-1974m


1974-1978m


1978-1981m


1981-1984m


1985-1986m


1987-1990m


1990-1993m


1994-1997m


1997-2000m


2004-2007m


2007-2009m


2010-2012m


2015-2021m


2016-2019m


2022-2025m


2025-2028m


2028-2031m


2031-2032m


2033-2034m


2034-2036m


2060-2063m


2063-2067m


2067-2070m


2070-2073m


2074-2074m


2080-2083m


2083-2089m


2084-2091m


2089-2094m


2093-2101m


2097-2100m


2100-2104m


2102-2103m


2107-2119m


2111-2115m


2115-2117m


2143-2144m


2220-2224m


2224-2227m


2228-2232m


2232-2236m


2238-2242m


2242-2246m

2246-2250m


2250-2254m


2255-2256m

Litostratigrafi

Top depth [mMD RKB]	Lithostrat. unit
137	NORDLAND GP
447	UTSIRA FM
483	NO FORMAL NAME
968	HORDALAND GP
1104	SKADE FM
1125	NO FORMAL NAME
1935	FRIGG FM
2223	ROGALAND GP
2223	BALDER FM
2251	INTRA BALDER FM SS
2256	BALDER FM
2259	INTRA BALDER FM SS
2262	BALDER FM
2269	INTRA BALDER FM SS
2272	BALDER FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
477	pdf	0.33

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
477_01_WDSS_General_Information	pdf	0.28
477_02_WDSS_completion_log	pdf	0.19

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL VDT	135	887
CST	0	0
DISFL LSSS GR	197	2295
HDT	1880	2296
LDT CNL GR AMS	197	2294
RFT	0	0
SHDT	1800	2296
VSP	197	2295

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	197.0	36	202.0	0.00	LOT
INTERM.	13 3/8	987.0	17 1/2	1002.0	1.37	LOT
INTERM.	9 5/8	2297.0	12 1/4	2297.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
198	1.06			WATER BASED	17.06.1985
202	1.05			WATER BASED	17.06.1985
602	1.06			WATER BASED	18.06.1985
908	1.10	28.0	11.0	WATER BASED	18.06.1985
1002	1.19	28.0	20.0	WATER BASED	21.06.1985
1002	1.10	28.0	19.0	WATER BASED	21.06.1985
1002	1.19	28.0	20.0	WATER BASED	21.06.1985
1010	1.06	32.0	8.0	WATER BASED	24.06.1985
1300	1.16	38.0	10.0	WATER BASED	24.06.1985
1525	1.19	38.0	11.0	WATER BASED	25.06.1985
1783	1.20	40.0	12.0	WATER BASED	26.06.1985
1933	1.23	34.0	8.0	WATER BASED	26.06.1985
1946	1.24	31.0	8.0	WATER BASED	27.06.1985
1987	1.24	30.0	7.0	WATER BASED	28.06.1985
2034	1.26	32.0	7.0	WATER BASED	01.07.1985
2034	1.26	32.0	7.0	WATER BASED	28.06.1985
2034	1.26	32.0	7.0	WATER BASED	01.07.1985
2060	1.26	31.0	6.0	WATER BASED	01.07.1985
2075	1.26	33.0	7.0	WATER BASED	02.07.1985
2076	1.26	35.0	10.0	WATER BASED	04.07.1985
2107	1.27	41.0	10.5	WATER BASED	08.07.1985
2120	1.27	38.0	12.5	WATER BASED	08.07.1985
2145	1.27	41.0	13.5	WATER BASED	08.07.1985
2227	1.27	40.0	13.0	WATER BASED	08.07.1985
2256	1.27	41.0	11.0	WATER BASED	09.07.1985
2297	1.27	38.0	11.0	WATER BASED	10.07.1985
2297	1.27	36.0	9.0	WATER BASED	14.07.1985
2297	1.28	35.0	8.0	WATER BASED	16.07.1985
2297	1.29	36.0	8.0	WATER BASED	16.07.1985
2297	1.29	44.0	8.0	WATER BASED	17.07.1985
2297	1.30	50.0	12.0	WATER BASED	20.07.1985
2297	1.27	36.0	9.0	WATER BASED	14.07.1985
2297	1.28	35.0	8.0	WATER BASED	16.07.1985
2297	1.29	36.0	8.0	WATER BASED	16.07.1985
2297	1.29	44.0	8.0	WATER BASED	17.07.1985
2297	1.30	50.0	12.0	WATER BASED	20.07.1985

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]
477_Formation_pressure_(Formasjonstrykk)	pdf	0.21