



Generell informasjon

Brønnbane navn	25/1-4
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	NORDØST FRIGG
Funn	25/1-4 Nordøst Frigg
Brønn navn	25/1-4
Seismisk lokalisering	LINE 73 595950 SP.70
Utvinningstillatelse	024
Boreoperatør	Elf Petroleum Norge AS
Boretillatelse	108-L
Boreinnretning	DEEPSEA DRILLER
Boredager	60
Borestart	01.04.1974
Boreslutt	30.05.1974
Frigitt dato	30.05.1976
Publiseringsdato	29.06.2004
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL/GAS
Funnbrønnbane	YES
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]	107.0
Totalt målt dybde (MD) [m RKB]	2795.0
Temperatur ved bunn av brønnbanen [°C]	76
Eldste penetrerte alder	LATE CRETACEOUS
Eldste penetrerte formasjon	HARDRÅDE FM
Geodetisk datum	ED50
NS grader	59° 59' 52.51" N
ØV grader	2° 15' 54.8" E
NS UTM [m]	6651562.60
ØV UTM [m]	459011.74



UTM sone	31
NPDID for brønnbanen	350

Brønnhistorie

General

Exploration well 25/1-4 was located on a lower Eocene structure straddling the 25/1 and 30/10 blocks limit, north-east of the main Frigg Field. It was drilled to explore additional gas reserves in the Frigg area. A "Bright spot" phenomenon interpreted as a gas/oil or water table is clearly visible on all the seismic sections crossing the structure. Possible Danian and Maastrichtian reservoirs were considered secondary objectives.

Operations and results

Well 25/1-4 was spudded with the semi-submersible installation Deepsea Driller on 1 April 1974 and drilled to TD at 2795 m in Maastrichtian marls.

The top of the Eocene reservoir (Frigg Formation) at 1967.8 was detected by C1 traces (maximum 3%). Based on shows on cores and electrical logs gas/oil and oil/water contacts were found at 2005.6 m and 2009 m, respectively. The contacts were not the same as on the Frigg Field, implying that this discovery was not in communication with the main Frigg Field. Background gas was weak to nil below 2010 and cuttings or sidewall cores below this depth showed no direct fluorescence or cut. Paleocene was penetrated at 2058 m with well-developed sand bodies as is usual in the area. Hence, the Paleocene contained 190 m net sands of which 25 m consisted of calcareous sandstone and 90 m of shaly sands. All Paleocene sands were water wet. In the Maastrichtian chalk some gas shows were recorded on the section 2757 m to 2763 m. Some hydrocarbon saturation was inferred by logs, but an FIT at 2760 m recovered 2.750 l of mud with only oil traces after a 25 minutes flow period.

Coring started at 1922 m, 45.8 m above the Eocene sands. Eight conventional cores were cut from this point down to 2028 m. Two wire line tests were conducted in the oil-bearing zone at 2006.5 m and 2007.5 m. The latter recovered 5.15 l of oil and 4.75 l of mud filtrate.

The well was permanently abandoned on 30 May 1974 as an oil and gas discovery.

Testing

One drill stem test was carried out through the 7" liner in the Eocene gas zone (perforations at 1991.20 m to 1995.8 m, 1983.20 m to 1987.2, and 1969.7 m to 1974.3 m). Gas flow was stabilized around 610000 m³/day on 3/4" choke (with 5.04 Sm³ associated condensate/day) and 831400 m³/day on a 1" choke (5.04 Sm³ associated condensate/day).

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
450.00	2795.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	1922.0	1933.0	[m]
2	1935.5	1949.5	[m]
3	1953.5	1970.5	[m]
4	1970.5	1976.5	[m]
5	1984.0	1990.0	[m]
6	1993.0	1999.0	[m]
7	2001.0	2010.0	[m]
8	2010.0	2023.5	[m]

Total kjerneprøve lengde [m]	82.5
Kjerner tilgjengelig for prøvetaking?	YES

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
1780.0	[m]	DC	
1800.0	[m]	DC	
1820.0	[m]	DC	
1840.0	[m]	DC	
1860.0	[m]	DC	
1880.0	[m]	DC	
1900.0	[m]	DC	
1921.0	[m]	DC	
1925.0	[m]	C	IGS
1941.0	[m]	C	IGS
1954.0	[m]	C	IGS
1970.0	[m]	C	IGS
1976.0	[m]	C	IGS
2035.0	[m]	DC	
2055.0	[m]	DC	
2067.0	[m]	SWC	
2075.0	[m]	DC	
2095.0	[m]	DC	
2115.0	[m]	DC	



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 11.5.2024 - 10:43

2119.0	[m]	SWC	
2135.0	[m]	DC	
2155.0	[m]	DC	
2175.0	[m]	DC	
2176.0	[m]	SWC	
2195.0	[m]	DC	
2215.0	[m]	DC	
2235.0	[m]	DC	
2247.0	[m]	SWC	
2255.0	[m]	DC	
2275.0	[m]	DC	
2300.0	[m]	DC	
2320.0	[m]	DC	
2340.0	[m]	DC	
2360.0	[m]	DC	
2371.0	[m]	SWC	
2380.0	[m]	DC	
2400.0	[m]	DC	
2420.0	[m]	DC	
2440.0	[m]	DC	
2445.0	[m]	DC	
2450.0	[m]	DC	
2455.0	[m]	DC	
2460.0	[m]	DC	
2465.0	[m]	DC	
2480.0	[m]	DC	
2482.0	[m]	SWC	
2500.0	[m]	DC	
2512.0	[m]	SWC	
2520.0	[m]	DC	
2532.0	[m]	SWC	
2540.0	[m]	DC	
2557.0	[m]	SWC	
2557.0	[m]	SWC	
2565.0	[m]	DC	
2603.0	[m]	SWC	
2630.0	[m]	SWC	
2673.5	[m]	SWC	
2745.0	[m]	SWC	
2789.0	[m]	SWC	



2793.0 [m]	SWC	
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Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
133	NORDLAND GP
952	HORDALAND GP
1968	FRIGG FM
2058	ROGALAND GP
2058	BALDER FM
2316	SELE FM
2561	LISTA FM
2643	TY FM
2687	SHETLAND GP
2687	HARDRÅDE FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
350	pdf	0.32

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
350_01_WDSS_General_Information	pdf	0.25

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
350_10_Crude_oil_analysis	PDF	0.76
350_11_CPI_data	PDF	8.36
350_12_Prognosis	PDF	0.35
350_13_Drilling_report	PDF	5.39
350_1_Completion_Report_and_Completion_I og	pdf	3.22





350 2 Test FIT	PDF	11.32
350 3 Well summary	PDF	5.75
350 4 CPI	PDF	0.96
350 5 Test	PDF	0.62
350 6 Core	PDF	1.87
350 7 Palynology	PDF	0.42
350 8 Log evaluation	PDF	11.21
350 9 Test analysis	PDF	3.56

Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsven til størrelse [mm]
1.0	1969	1995	19.0

Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningsstrykk [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	5	610000			

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL	1250	1907
CBL	1758	2051
CCL PERF	1969	1974
CCL PERF	1983	1987
CCL PERF	1991	1995
DLL	1907	2786
FDC CNL	1907	2078
FDC CNT	1907	2770
GR	132	420
GR SL	420	1919
GR SL	1907	2077





GR SL	1907	2792
HDT	1907	2791
IES	425	1920
IES	1907	2078
IES	1907	2770
MLL ML	1907	2770
SWC	2067	2793
SWC	2067	2793

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	164.0	36	166.0	0.00	LOT
INTERM.	13 3/8	424.0	17 1/2	425.0	0.00	LOT
INTERM.	9 5/8	1907.0	12 1/4	1910.0	0.00	LOT
LINER	7	2795.0	8 1/2	2795.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
920	1.30	60.0	12.0	water based	
1840	1.38	75.0	12.0	water based	
1930	1.25	47.0	12.0	water based	
2028	1.25	48.0	14.0	water based	
2563	1.25	46.0	10.0	water based	

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]
350_Formalion_pressure_(Formasjonstrykk)	pdf	0.22

