



Generell informasjon

Brønnbane navn	25/1-10
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	25/1-10
Seismisk lokalisering	EL 8501 X 376 SP. 380
Utvinningstillatelse	024
Boreoperatør	Elf Petroleum Norge AS
Boretillatelse	570-L
Boreinnretning	VINNI
Boredager	149
Borestart	19.04.1988
Boreslutt	14.09.1988
Frigitt dato	14.09.1990
Publiseringsdato	06.01.2015
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	27.0
Vanndybde ved midlere havflate [m]	99.0
Totalt målt dybde (MD) [m RKB]	4739.0
Totalt vertikalt dybde (TVD) [m RKB]	4732.6
Temperatur ved bunn av brønnbanen [°C]	149
Eldste penetrerte alder	MIDDLE JURASSIC
Eldste penetrerte formasjon	BRENT GP
Geodetisk datum	ED50
NS grader	59° 57' 8.58" N
ØV grader	2° 5' 48.11" E
NS UTM [m]	6646607.84
ØV UTM [m]	449542.00
UTM sone	31
NPDID for brønnbanen	1219



Brønnhistorie

General

Well 25/1-10 was drilled on the northern part of the Frigg Field in the Viking Graben. The primary objective was to test the Mesozoic "Deep Frigg" structure below the Frigg Field. The structure is a narrow north-south trending rotated mesozoic fault block. The first well drilled on the structure, 25/1-1, penetrated the top of Middle Jurassic sandstones at more than 4500 m, but was abandoned due to water flow associated with high pressure. The second well, 30/10-5, encountered both Middle Jurassic Brent Group sandstones and Lower Jurassic Statfjord Group sandstones, but the sandstones were water bearing. Well 25/1-10 was designed to test the remaining up dip potential of the Brent and Statfjord reservoirs. Secondary objectives were to establish the sweeping status of the Lower Eocene Frigg Formation and to obtain additional petrophysical data from this reservoir.

Operations and results

Wildcat well 25/1-10 was spudded with the semi-submersible installation Vinni on 19 April 1988 and drilled to TD at 3739 m in the Middle Jurassic Brent Group. The interval 287-923 m was drilled with a 14 3/4" pilot hole to check for shallow gas. No gas was detected during drilling. The main problems during operations were encountered with the shales above the Frigg Formation and subsequent mud losses into the Frigg Formation. Further hole problems and mud losses occurred in the Brent Group, related to high pressures and fragile formation.

Top of Frigg was found at 1926 m. The electrical wireline logs clearly showed that formation water has swept the gas that was initially present in the Frigg reservoir sands. Quantitative analysis indicate average porosities of 29 - 30 % and a residual gas saturation of 19 %. The well penetrated the Brent Group at 4771 m. Brent was found water bearing with an average porosity of 18 % and a Net/Gross ratio of 0.54. The average water saturation is 95 %. FMT pressure measurements showed a formation pressure of 926.8 bar at 4503 m. This is severe overpressure. For well safety reasons, the Statfjord formation was not drilled.

Hydrocarbon indications were scarce except for generally high background gas readings from 3600 m within the Shetland Group and down to TD. Minor oil shows were recorded from 1955 m to 1980 m in the Frigg Formation and from 2863 m to 2870 m in the Shetland Group.

One core was cut from 4473 m to 4483 m with 16% recovery. No wire line fluid samples were taken.

The well was permanently abandoned on 14 September 1988 as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
935.00	4740.00



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

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
126	NORDLAND GP
730	HORDALAND GP
1926	FRIGG FM
2171	ROGALAND GP
2171	BALDER FM
2291	SELE FM
2423	LISTA FM
2662	SHETLAND GP
4060	CROMER KNOLL GP
4259	VIKING GP
4259	DRAUPNE FM
4312	HEATHER FM
4471	BRENT GP

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
1219_GCH_1	pdf	0.56
1219_GCH_2	pdf	0.72

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
1219_01_WDSS_General_Information	pdf	0.23
1219_02_WDSS_completion_log	pdf	0.29

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
1219_25_1_10_Completion_log	pdf	10.14
1219_25_1_10_Completion_report	pdf	10.25





Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL VDL GR	1450	2825
CBL VDL GR	2750	4451
CDL CN GR	1900	4745
DIFL LSS GR	190	4575
DIP GR	3200	4058
DIP GR	4457	4720
FMT HP	3618	3700
FMT HP	4503	4685
PDK 100 GR CCL	1910	2010
SWC GR	4475	4590
VSP	909	4745

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	188.0	36	188.0	0.00	LOT
SURF.COND.	20	910.0	26	923.0	1.17	LOT
INTERM.	13 3/8	2825.0	17 1/2	2839.0	1.72	LOT
INTERM.	9 5/8	4043.0	12 1/4	4058.0	2.15	LOT
LINER	7	4451.0	8 1/2	4471.0	2.25	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	flytegrense [Pa]	Type slam	Dato, måling
985	1.08	25.0	8.3	WATER BASED	03.05.1988
1588	1.14	27.0	8.8	WATER BASED	05.05.1988
1635	1.16	21.0	6.8	WATER BASED	06.05.1988
1780	1.17	181.0	83.7	WATER BASED	09.05.1988
1939	1.20	22.0	7.8	WATER BASED	09.05.1988
2062	1.20	46.0	10.7	WATER BASED	18.05.1988
2233	1.21	39.0	16.6	WATER BASED	24.05.1988
2233	1.21	39.0	16.1	WATER BASED	25.05.1988



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 14.5.2024 - 09:38

2419	1.21	40.0	16.6	WATER BASED	26.05.1988
2485	1.21	40.0	16.6	WATER BASED	27.05.1988
2622	1.21	39.0	16.6	WATER BASED	30.05.1988
2671	1.22	36.0	15.1	WATER BASED	31.05.1988
2693	1.21	36.0	17.6	WATER BASED	02.06.1988
2726	1.21	38.0	17.6	WATER BASED	02.06.1988
2741	1.21	38.0	17.6	WATER BASED	03.06.1988
2787	1.21	35.0	17.6	WATER BASED	06.06.1988
2833	1.21	33.0	17.6	WATER BASED	06.06.1988
2839	1.22	38.0	16.6	WATER BASED	06.06.1988
2844	1.22	24.0	6.8	WATER BASED	13.06.1988
2941	1.25	32.0	8.8	WATER BASED	13.06.1988
2951	1.25	26.0	8.8	WATER BASED	13.06.1988
3037	1.27	32.0	8.8	WATER BASED	14.06.1988
3051	1.27	37.0	10.7	WATER BASED	15.06.1988
3140	1.27	32.0	9.8	WATER BASED	16.06.1988
3230	1.27	27.0	10.2	WATER BASED	17.06.1988
3340	1.27	28.0	10.2	WATER BASED	20.06.1988
3384	1.27	27.0	9.3	WATER BASED	20.06.1988
3474	1.32	26.0	8.8	WATER BASED	20.06.1988
3555	1.35	29.0	8.8	WATER BASED	21.06.1988
3569	1.42	33.0	10.7	WATER BASED	22.06.1988
3635	1.42	33.0	10.7	WATER BASED	23.06.1988
3706	1.58	34.0	14.2	WATER BASED	28.06.1988
3777	1.65	32.0	9.3	WATER BASED	28.06.1988
3846	1.65	37.0	12.2	WATER BASED	28.06.1988
3953	1.68	38.0	12.7	WATER BASED	28.06.1988
4058	1.74	40.0	10.7	WATER BASED	01.07.1988
4159	1.80	42.0	8.8	WATER BASED	19.07.1988
4470	2.05	51.0	14.7	WATER BASED	27.07.1988
4497	2.15	43.0	5.3	WATER BASED	22.08.1988
4574	2.15	45.0	5.8	WATER BASED	22.08.1988
4593	2.15	45.0	5.3	WATER BASED	23.08.1988
4627	2.15	45.0	5.8	WATER BASED	24.08.1988
4676	2.15	44.0	6.3	WATER BASED	25.08.1988
4708	2.15	44.0	5.8	WATER BASED	26.08.1988
4739	2.15	46.0	7.3	WATER BASED	29.08.1988

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 brønnspar. Trykkdataene er rapportert inn til Oljedirektoratet og videre prosessert og kvalitetssikret av IHS Markit.

Dokument navn	Dokument format	Dokument størrelse [KB]
1219 Formation pressure (Formasjonstrykk)	pdf	0.21

