



Generell informasjon





Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 14.5.2024 - 22:32

Brønnbane navn	30/10-1
Type	EXPLORATION
Formål	APPRAISAL
Status	JUNKED
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	FRIGG
Funn	25/1-1 Frigg
Brønn navn	30/10-1
Seismisk lokalisering	LINE 572-1 SP.2010
Utvinningstillatelse	030
Boreoperatør	Esso Exploration and Production Norway A/S
Boretillatelse	84-L
Boreinnretning	SAIPEM II
Boredager	75
Borestart	05.05.1973
Boreslutt	18.07.1973
Frigitt dato	18.07.1975
Publiseringsdato	30.09.2004
Opprinnelig formål	WILDCAT
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]	14.0
Vanndybde ved midlere havflate [m]	105.2
Totalt målt dybde (MD) [m RKB]	2917.0
Eldste penetrerte alder	LATE CRETACEOUS
Eldste penetrerte formasjon	HARDRÅDE FM
Geodetisk datum	ED50
NS grader	60° 0' 20.37" N
ØV grader	2° 4' 7.17" E
NS UTM [m]	6652562.51
ØV UTM [m]	448059.34
UTM sone	31
NPDID for brønnbanen	391



Brønnhistorie

General

Well 30/10-1 is located on the Northern apex of the Frigg field. The well was drilled as a wildcat, primarily to evaluate the Lower Eocene sand ("Frigg Field Clastic Tongue") in the area. Secondly, the well should evaluate the Paleocene sands and the Late Cretaceous limestone. The plan was to set the 9 5/8 inch casing in the top of a high-pressure zone (Cretaceous Shale) prior to moving the rig Saipem Due to another location. The hole should then be re-entered with another rig and drill deeper to evaluate a deep-seated structural closure.

Operations and results

Well 30/10-1 was spudded with the vessel Saipem Due on 5 May 1973 and drilled to TD at 2917 m in Late Cretaceous (Maastrichtian) shale. Initial drilling from the sea floor to 1067 m was with seawater and gel. Below 1067 m a fresh water Spersene XP 20 (lignosulphonate) mud system was used.

The thickness of the pay section of the Frigg Clastic Tongue (Primary objective) was disappointing in that it was very thin. A green shale unit replaced the expected pay section. Formation interval test and logs indicate that approximately 4 m of the Frigg Clastic sand contained gas and approximately 6 m could possibly be oil bearing. No other good hydrocarbon shows were encountered below the Frigg Clastic Tongue. In the Rogaland Group almost 200 m of sand were present, however, the sand was void of hydrocarbons, with the exception of some scattered fluorescence in the upper portion. Five cores were cut in the Frigg sand in the interval 1974 m to 2010 m. No sidewall cores were taken. Four Formation Interval Tests (FITs) were taken in the Frigg sand. FIT No. 1 at 1960.5 m recovered, 29 cubic feet of gas, 5 litres water and 0.5 litres mud. FIT No. 2 at 1989.5 m recovered 10 litres water. FIT No. 3 at 1974.5 m recovered 7 litres liquid (mud and water) and 100 cc oil. FIT No. 4 at 1966 m recovered 6.5 cubic feet gas, 2.25 litres oil, 300 cc mud, and 4.75 litres of water. Oil gravity was 29.7 deg API.

Due to a pressure zone encountered between 2905 m and 2917 m and subsequent loss of circulation the well was junked. The well was abandoned as an oil and gas appraisal well.

Testing

No drill stem test was performed

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
167.64	2916.94

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerter i Sokkeldirektoratet



Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	6482.0	6490.0	[ft]
2	6490.0	6521.0	[ft]
3	6534.0	6545.0	[ft]
4	6545.0	6563.0	[ft]
5	6578.0	6593.0	[ft]

Total kjerneprøve lengde [m]	25.3
Kjerner tilgjengelig for prøvetaking?	YES

Palynologiske preparater i Sökkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
3010.0	[ft]	DC	
3100.0	[ft]	DC	
3190.0	[ft]	DC	
3310.0	[ft]	DC	
3400.0	[ft]	DC	
3490.0	[ft]	DC	
3600.0	[ft]	DC	
3690.0	[ft]	DC	
3810.0	[ft]	DC	
3900.0	[ft]	DC	
3990.0	[ft]	DC	
4110.0	[ft]	DC	
4200.0	[ft]	DC	
4290.0	[ft]	DC	
4410.0	[ft]	DC	
4500.0	[ft]	DC	
4620.0	[ft]	DC	
4710.0	[ft]	DC	
4800.0	[ft]	DC	
4890.0	[ft]	DC	
5010.0	[ft]	DC	
5100.0	[ft]	DC	
5190.0	[ft]	DC	
5280.0	[ft]	DC	
5370.0	[ft]	DC	



5460.0 [ft]	DC	
5550.0 [ft]	DC	
5640.0 [ft]	DC	
5730.0 [ft]	DC	
5820.0 [ft]	DC	
5910.0 [ft]	DC	
6030.0 [ft]	DC	
6120.0 [ft]	DC	
6210.0 [ft]	DC	
6330.0 [ft]	DC	
6360.0 [ft]	DC	
6390.0 [ft]	DC	
6420.0 [ft]	DC	
6486.0 [ft]	C	
6489.0 [ft]	C	
6493.0 [ft]	C	
6498.0 [ft]	C	
6501.0 [ft]	C	
6508.0 [ft]	C	
6545.0 [ft]	C	
6548.0 [ft]	C	
6550.0 [ft]	DC	
6555.0 [ft]	DC	
6600.0 [ft]	DC	
6691.0 [ft]	DC	
6780.0 [ft]	DC	
6870.0 [ft]	DC	
6900.0 [ft]	DC	
6930.0 [ft]	DC	
6960.0 [ft]	DC	
7070.0 [ft]	DC	
7160.0 [ft]	DC	
7225.0 [ft]	DC	
7270.0 [ft]	DC	
7280.0 [ft]	DC	
7290.0 [ft]	DC	
7300.0 [ft]	DC	
7310.0 [ft]	DC	
7320.0 [ft]	DC	
7330.0 [ft]	DC	



7340.0 [ft]	DC	
7350.0 [ft]	DC	
7360.0 [ft]	DC	
7370.0 [ft]	DC	
7470.0 [ft]	DC	
7570.0 [ft]	DC	
7670.0 [ft]	DC	
7770.0 [ft]	DC	
7870.0 [ft]	DC	
7970.0 [ft]	DC	
7990.0 [ft]	DC	
8010.0 [ft]	DC	
8030.0 [ft]	DC	
8050.0 [ft]	DC	
8070.0 [ft]	DC	
8170.0 [ft]	DC	
8270.0 [ft]	DC	
8370.0 [ft]	DC	
8470.0 [ft]	DC	
8570.0 [ft]	DC	
8620.0 [ft]	DC	
8670.0 [ft]	DC	
8680.0 [ft]	DC	
8720.0 [ft]	DC	
8770.0 [ft]	DC	
8870.0 [ft]	DC	
8970.0 [ft]	DC	
9070.0 [ft]	DC	
9170.0 [ft]	DC	
9270.0 [ft]	DC	
9370.0 [ft]	DC	
9470.0 [ft]	DC	
9570.0 [ft]	DC	

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
129	NORDLAND GP
453	UTSIRA FM



660	HORDALAND GP
660	SKADE FM
842	NO FORMAL NAME
1960	FRIGG FM
2076	ROGALAND GP
2076	BALDER FM
2115	INTRA BALDER FM SS
2160	BALDER FM
2170	SELE FM
2202	HERMOD FM
2289	SELE FM
2340	HERMOD FM
2374	SELE FM
2460	LISTA FM
2621	VÅLE FM
2640	SHETLAND GP
2640	EKOFISK FM
2679	JORSALFARE FM
2834	KYRRE FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
391	pdf	0.21

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
391 01 WDSS General Information	pdf	0.31

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
391 1 Completion Report & Completion log	pdf	6.46





Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
BHC S GRC	117	1088
BHC S GRC	1064	2036
CAL	1063	1570
DIL	1064	2038
GR NEU	1063	2905
IEL	363	1088
TEMP	1524	2659

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	156.0	36	160.0	0.00	LOT
SURF.COND.	20	362.0	26	365.0	0.00	LOT
INTERM.	13 3/8	1063.0	17 1/2	1065.0	1.43	LOT
OPEN HOLE		2917.0	12 1/4	2917.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
1096	1.17			water/spers	
1976	1.17			water/spers	
2356	1.18			water/spers	
2565	1.19			water/spers	
2916	1.49			water/spers	

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]
391 Formation pressure (Formasjonstrykk)	pdf	0.21

