



Generell informasjon





Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 31.5.2024 - 03:36

Brønnbane navn	16/2-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	16/2-1
Seismisk lokalisering	C 309 C SP: 19246
Utvinningstillatelse	001
Boreoperatør	Esso Exploration and Production Norway A/S
Boretillatelse	3-L
Boreinnretning	OCEAN TRAVELER
Boredager	30
Borestart	11.07.1967
Boreslutt	09.08.1967
Frigitt dato	09.08.1969
Publiseringsdato	19.10.2006
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL SHOWS
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	26.0
Vanndybde ved midlere havflate [m]	113.0
Totalt målt dybde (MD) [m RKB]	1906.0
Totalt vertikalt dybde (TVD) [m RKB]	1906.0
Maks inklinasjon [°]	1.5
Temperatur ved bunn av brønnbanen [°C]	73
Eldste penetrerte alder	PRE-DEVONIAN
Eldste penetrerte formasjon	BASEMENT
Geodetisk datum	ED50
NS grader	58° 53' 35.19" N
ØV grader	2° 21' 25.77" E
NS UTM [m]	6528477.90
ØV UTM [m]	462951.38
UTM sone	31
NPDID for brønnbanen	144



Brønnhistorie

General

Well 16/2-1 is located on the very western part of the Utsira High in the central part of the Vestland Arch. The Utsira High is a large, flat, fault bounded basement feature. The objective of this early well in the North Sea was: "To test the hydrocarbon potential of the sedimentary section; investigate the lithology and sequence in this portion of the North Sea basin; and to partially fulfil Esso's drilling obligation to the Norwegian Government incurred on behalf of the Licences."

Operations and results

Wildcat well 16/2-1 was spudded with the semi-submersible installation Ocean Traveler on 11 July 1967 and drilled to TD at 1906 m, 33 m into basement rock. There were no noteworthy drilling problems encountered while drilling. Initial drilling from the sea floor to 381 m was with seawater and gel without casing. Returns were to the sea floor. Below 381 m to total depth of 1906 m, a seawater slurry with gel, CMC, Spersene, XP-20, Caustic Soda, Barite, and 0-10% diesel oil was used.

Oil shows were seen on cores in tight Cretaceous carbonate rocks in the Tor Formation. The shows were strong and continuous from top Tor Formation down to 1776 m, and then became patchy. These rocks were too impermeable to justify further tests in this well. Weak shows were seen also in a thin Oligocene sand from 1256 m to 1263 m and in Eocene mudstones from 1631 m to 1637 m, Balder Formation. Dead oil/tar was observed in fractures in the basement rock.

Five cores were cut from 1739.5 m to 1821.8 m in the Tor Formation chalk and two more cores were cut from 1879.1 m to 1883.7 m in the basement. Four Formation Interval Tests (FIT) were performed at 1748.9 m, 1733.4 m, 1642.6 m, and at 1738.2 m. The tests, one in Early Tertiary shales and three in Late Cretaceous carbonates, did not show any hydrocarbons.

The well was permanently abandoned on 9 August 1967 as a well with shows.

Testing

No drill stem test was performed

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
381.00	1905.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet



Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	5705.0	5737.0	[ft]
2	5737.0	5797.0	[ft]
3	5796.0	5856.0	[ft]
4	5857.0	5917.0	[ft]
5	5917.0	5977.0	[ft]
6	6165.0	6170.0	[ft]
7	6175.0	6180.0	[ft]

Total kjerneprøve lengde [m]	86.0
Kjerner tilgjengelig for prøvetaking?	YES

Palynologiske preparater i Søkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
1650.0	[ft]	DC	
2550.0	[ft]	DC	
3110.0	[ft]	DC	
3200.0	[ft]	DC	
3290.0	[ft]	DC	
3380.0	[ft]	DC	
3400.0	[ft]	DC	
3410.0	[ft]	DC	
3470.0	[ft]	DC	
3500.0	[ft]	DC	
3560.0	[ft]	DC	
3590.0	[ft]	DC	
3650.0	[ft]	DC	
3710.0	[ft]	DC	
3740.0	[ft]	DC	
3800.0	[ft]	DC	
3830.0	[ft]	DC	
3910.0	[ft]	DC	
3970.0	[ft]	DC	
4000.0	[ft]	DC	
4090.0	[ft]	DC	
4134.0	[ft]	SWC	
4140.0	[ft]	SWC	



4180.0 [ft]	DC	
4210.0 [ft]	DC	
4270.0 [ft]	DC	
4300.0 [ft]	DC	
4360.0 [ft]	DC	
4390.0 [ft]	DC	
4420.0 [ft]	DC	
4426.0 [ft]	SWC	
4460.0 [ft]	DC	
4480.0 [ft]	DC	
4500.0 [ft]	DC	
4553.0 [ft]	DC	
4580.0 [ft]	DC	
4600.0 [ft]	DC	
4660.0 [ft]	DC	
4680.0 [ft]	DC	
4760.0 [ft]	DC	
4780.0 [ft]	DC	
4860.0 [ft]	DC	
4880.0 [ft]	DC	
4943.0 [ft]	SWC	
4960.0 [ft]	DC	
4960.0 [ft]	DC	
4980.0 [ft]	DC	
5022.0 [ft]	SWC	
5022.0 [ft]	DC	
5036.0 [ft]	SWC	
5038.0 [ft]	DC	
5060.0 [ft]	DC	
5080.0 [ft]	DC	
5144.0 [ft]	DC	
5144.0 [ft]	SWC	
5160.0 [ft]	DC	
5180.0 [ft]	DC	
5226.0 [ft]	SWC	
5226.0 [ft]	DC	
5260.0 [ft]	DC	
5280.0 [ft]	DC	
5350.0 [ft]	SWC	
5360.0 [ft]	SWC	



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5360.0	[ft]	DC	
5371.0	[ft]	SWC	
5375.0	[ft]	DC	
5400.0	[ft]	DC	
5460.0	[ft]	DC	
5480.0	[ft]	DC	
5540.0	[ft]	DC	
5560.0	[ft]	DC	
5580.0	[ft]	DC	
5580.0	[ft]	DC	
5600.0	[ft]	DC	
5612.0	[ft]	SWC	
5620.0	[ft]	DC	
5620.0	[ft]	DC	
5660.0	[ft]	DC	
5680.0	[ft]	DC	
5707.0	[ft]	DC	ESSO
5715.0	[ft]	DC	ESSO
5726.5	[ft]	SWC	ESSO
5739.0	[ft]	DC	ESSO
5752.5	[ft]	SWC	ESSO
5763.5	[ft]	SWC	ESSO
5773.0	[ft]	DC	ESSO
5780.0	[ft]	DC	
5789.0	[ft]	DC	ESSO
5801.5	[ft]	SWC	ESSO
5815.0	[ft]	DC	ESSO
5828.5	[ft]	SWC	ESSO
5839.5	[ft]	SWC	ESSO
5852.5	[ft]	SWC	ESSO
5856.0	[ft]	DC	
5863.0	[ft]	DC	ESSO
5871.0	[ft]	SWC	
5875.0	[ft]	DC	ESSO
5887.0	[ft]	DC	ESSO
5902.0	[ft]	DC	ESSO
5916.0	[ft]	DC	ESSO
5929.0	[ft]	DC	ESSO
5940.0	[ft]	DC	ESSO
5951.0	[ft]	DC	ESSO



5965.0 [ft]	DC	ESSO
5977.0 [ft]	DC	ESSO
5980.0 [ft]	DC	
6030.0 [ft]	DC	
6040.0 [ft]	DC	
6060.0 [ft]	DC	
6080.0 [ft]	DC	
6090.0 [ft]	DC	
6110.0 [ft]	DC	
6110.0 [ft]	DC	
6120.0 [ft]	DC	
6130.0 [ft]	DC	
6130.0 [ft]	DC	
6140.0 [ft]	DC	
6180.0 [ft]	DC	
6230.0 [ft]	DC	

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
139	NORDLAND GP
797	UTSIRA FM
845	NO FORMAL NAME
939	HORDALAND GP
939	SKADE FM
950	SKADE FM
1154	NO FORMAL NAME
1625	ROGALAND GP
1625	BALDER FM
1645	SELE FM
1669	LISTA FM
1732	SHETLAND GP
1732	TOR FM
1838	HOD FM
1850	CROMER KNOLL GP
1850	RØDBY FM
1858	SOLA FM
1873	BASEMENT



Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
144	pdf	0.27

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
144_1	pdf	1.26

Dokumenter - eldre Sökkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
144_01_WDSS_General_Information	pdf	0.18

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
144_16_2_1_COMPLETION_LOG	pdf	1.25
144_16_2_1_COMPLETION_REPORT	pdf	3.70

Dokumenter - Sökkeldirektoratets publikasjoner

Dokument navn	Dokument format	Dokument størrelse [KB]
144_01_NPD_Paper_No.3_Lithology_Well_16_2_1	pdf	11.51
144_02_NPD_Paper_No.3_Interpreted_Lithology_log_Well_16_2_1	pdf	51.08

Logger





Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
BHC SONIC GR	140	1907
CDM	365	1910
FDC	365	1910
IES	365	1909
LL7	365	1908
MLL	365	1910

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	164.0	0.00	LOT
SURF.COND.	20	186.0	26	186.0	0.00	LOT
INTERM.	13 3/8	363.0	17 1/2	363.0	0.00	LOT
INTERM.	9 5/8	1110.0	12 1/4	1110.0	0.00	LOT
OPEN HOLE		1905.0	8 1/2	1905.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
164	0.00			sea water	
381	0.00			sea water/g	

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]
144_Formation_pressure_(Formasjonstrykk)	pdf	0.19

