



Generell informasjon

Brønnbane navn	16/1-2
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	IVAR AASEN
Funn	16/1-9 Ivar Aasen
Brønn navn	16/1-2
Seismisk lokalisering	CS 75-30-shot point 2658
Utvinningstillatelse	001
Boreoperatør	Esso Exploration and Production Norway A/S
Boretillatelse	160-L
Boreinnretning	ROSS RIG (1)
Boredager	35
Borestart	04.07.1976
Boreslutt	07.08.1976
Frigitt dato	07.08.1978
Publiseringsdato	10.01.2010
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	LATE TRIASSIC
1. nivå med hydrokarboner, formasjon.	SKAGERRAK FM
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	113.0
Totalt målt dybde (MD) [m RKB]	2919.0
Temperatur ved bunn av brønnbanen [°C]	101
Eldste penetrerte alder	PRE-DEVONIAN
Eldste penetrerte formasjon	BASEMENT
Geodetisk datum	ED50
NS grader	58° 56' 9.22" N
ØV grader	2° 13' 20.06" E
NS UTM [m]	6533324.63



ØV UTM [m]	455231.21
UTM sone	31
NPDID for brønnbanen	332

Brønnhistorie

General

Well 16/1-2 is located on the eastern side of the Gudrun Terrace, towards the Utsira High in the North Sea. The well was designed to test all potential reservoirs through the Permian on a closure on a large, rotated fault-block. Primary objectives were Jurassic sandstones and secondary objectives were Paleocene sandstones.

Operations and results

Wildcat well 16/1-2 was spudded with the semi-submersible installation Ross Rig on 4 July 1976 and drilled to TD at 2919 m in granite basement. Loss of circulation in high-porosity Zechstein carbonates was the only significant problem encountered during the drilling of 16/1-2. Initial drilling from the sea floor to 1286 meters was with sea water and gel. Below this depth a fresh water and lignosulphonate mud system was used.

The well penetrated several sands in the Tertiary including the Utsira, Skade, and Grid formations. The Heimdal Formation was encountered at 2098 m with a 10 m zone of strong oil shows. The zone was however judged by log analysis to be water-productive and the shows not of sufficient quality to warrant testing. Triassic sandstones were originally interpreted to be water-filled. Later reinterpretation have confirmed the presence of oil in the Triassic interval. There were no shows from either the Zechstein or the Rotliegendes sandstone.

No cores were cut and no wire line fluid samples were taken.

The well was permanently abandoned on 7 August 1976 as a dry well with shows.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
340.00	2915.00

Borekaks tilgjengelig for prøvetaking?	YES
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Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
710.0	[m]	DC	OD
720.0	[m]	DC	OD



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 17.5.2024 - 05:03

730.0 [m]	DC	OD
740.0 [m]	DC	OD
750.0 [m]	DC	OD
760.0 [m]	DC	OD
770.0 [m]	DC	OD
780.0 [m]	DC	OD
790.0 [m]	DC	OD
800.0 [m]	DC	OD
810.0 [m]	DC	OD
820.0 [m]	DC	OD
830.0 [m]	DC	OD
840.0 [m]	DC	OD
850.0 [m]	DC	OD
870.0 [m]	DC	OD
990.0 [m]	DC	
1020.0 [m]	DC	
1050.0 [m]	DC	
1080.0 [m]	DC	
1110.0 [m]	DC	
1120.0 [m]	DC	
1140.0 [m]	DC	
1170.0 [m]	DC	
1200.0 [m]	DC	
1230.0 [m]	DC	
1260.0 [m]	DC	
1290.0 [m]	DC	
1310.0 [m]	DC	
1320.0 [m]	DC	
1350.0 [m]	DC	
1380.0 [m]	DC	
1412.0 [m]	DC	
1424.0 [m]	DC	
1442.0 [m]	DC	
1472.0 [m]	DC	
1502.0 [m]	DC	
1532.0 [m]	DC	
1562.0 [m]	DC	
1574.0 [m]	DC	
1592.0 [m]	DC	
1622.0 [m]	DC	



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 17.5.2024 - 05:03

1652.0 [m]	DC	
1658.0 [m]	DC	
1682.0 [m]	DC	
1712.0 [m]	DC	
1742.0 [m]	DC	
1754.0 [m]	DC	
1772.0 [m]	DC	
1802.0 [m]	DC	
1802.0 [m]	DC	
1832.0 [m]	DC	
1838.0 [m]	DC	
1844.0 [m]	DC	
1850.0 [m]	DC	
1856.0 [m]	DC	
1862.0 [m]	DC	
1892.0 [m]	DC	
1916.0 [m]	DC	
1922.0 [m]	DC	
1934.0 [m]	DC	
1952.0 [m]	DC	
1964.0 [m]	DC	
1982.0 [m]	DC	
1994.0 [m]	DC	
2012.0 [m]	DC	
2018.0 [m]	DC	
2026.0 [m]	DC	
2042.0 [m]	DC	
2048.0 [m]	DC	
2054.0 [m]	DC	
2060.0 [m]	DC	
2060.0 [m]	DC	
2072.0 [m]	DC	
2075.0 [m]	SWC	
2084.0 [m]	DC	
2096.0 [m]	SWC	
2102.0 [m]	SWC	
2102.0 [m]	DC	
2107.0 [m]	SWC	
2120.0 [m]	DC	
2132.0 [m]	DC	



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 17.5.2024 - 05:03

2150.0 [m]	DC	
2162.0 [m]	DC	
2174.0 [m]	DC	
2192.0 [m]	DC	
2198.0 [m]	DC	
2221.0 [m]	SWC	
2222.0 [m]	DC	
2228.0 [m]	DC	
2234.0 [m]	DC	
2237.0 [m]	SWC	
2240.0 [m]	DC	
2240.0 [m]	DC	
2246.0 [m]	DC	
2252.0 [m]	DC	
2258.0 [m]	DC	
2270.5 [m]	SWC	
2282.0 [m]	DC	
2286.5 [m]	SWC	
2296.0 [m]	SWC	
2297.0 [m]	DC	
2312.0 [m]	DC	
2327.0 [m]	DC	
2339.0 [m]	DC	
2352.5 [m]	SWC	
2357.0 [m]	DC	
2366.0 [m]	DC	
2384.5 [m]	SWC	
2387.0 [m]	DC	
2396.0 [m]	DC	
2414.0 [m]	DC	APT
2417.0 [m]	DC	
2420.0 [m]	DC	
2423.0 [m]	DC	
2423.5 [m]	SWC	
2426.0 [m]	DC	
2432.0 [m]	DC	APT
2441.0 [m]	DC	
2444.0 [m]	DC	
2446.0 [m]	SWC	
2447.0 [m]	DC	APT



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 17.5.2024 - 05:03

2449.0 [m]	SWC	
2456.0 [m]	SWC	APT
2456.0 [m]	DC	
2459.0 [m]	DC	
2462.0 [m]	SWC	
2462.0 [m]	DC	APT
2470.0 [m]	SWC	
2471.0 [m]	DC	
2480.0 [m]	DC	
2483.0 [m]	DC	
2485.0 [m]	SWC	
2491.5 [m]	SWC	
2495.0 [m]	SWC	
2503.0 [m]	SWC	
2507.0 [m]	DC	
2510.0 [m]	DC	
2514.0 [m]	SWC	
2522.0 [m]	DC	
2540.0 [m]	DC	
2555.0 [m]	DC	
2562.5 [m]	SWC	
2573.0 [m]	DC	
2582.0 [m]	DC	
2603.0 [m]	DC	
2615.0 [m]	DC	
2627.0 [m]	DC	
2633.0 [m]	DC	
2642.0 [m]	DC	
2649.0 [m]	SWC	
2660.0 [m]	DC	
2670.0 [m]	DC	
2672.0 [m]	DC	
2684.0 [m]	DC	
2690.0 [m]	DC	
2693.5 [m]	SWC	
2702.0 [m]	DC	
2702.5 [m]	SWC	
2705.0 [m]	DC	
2708.0 [m]	DC	
2714.0 [m]	DC	



2717.0	[m]	SWC	
2718.0	[m]	SWC	
2719.0	[m]	SWC	
2722.0	[m]	SWC	
2723.0	[m]	SWC	
2726.0	[m]	SWC	
2732.0	[m]	SWC	
2733.0	[m]	SWC	
2735.0	[m]	SWC	
2744.0	[m]	SWC	
2749.0	[m]	SWC	
2752.0	[m]	SWC	
2753.0	[m]	SWC	
2756.0	[m]	SWC	
2772.0	[m]	SWC	
2775.5	[m]	SWC	
2782.0	[m]	SWC	
2787.5	[m]	SWC	
2791.5	[m]	SWC	
2812.0	[m]	SWC	
2817.0	[m]	SWC	
2832.0	[m]	SWC	
2850.0	[m]	SWC	
2880.0	[m]	SWC	
2900.0	[m]	SWC	

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
138	NORDLAND GP
740	UTSIRA FM
820	NO FORMAL NAME
930	HORDALAND GP
930	SKADE FM
1087	NO FORMAL NAME
1134	SKADE FM
1222	NO FORMAL NAME
1660	GRID FM
1730	NO FORMAL NAME



1973	ROGALAND GP
1973	BALDER FM
2018	SELE FM
2060	LISTA FM
2098	HEIMDAL FM
2138	LISTA FM
2192	SHETLAND GP
2236	CROMER KNOLL GP
2242	VIKING GP
2242	INTRA HEATHER FM SS
2283	HEATHER FM
2424	NO GROUP DEFINED
2424	SKAGERRAK FM
2620	SMITH BANK FM
2713	ZECHSTEIN GP
2713	UNDIFFERENTIATED
2800	KUPFERSCHIEFER FM
2808	ROTLIEGEND GP
2912	BASEMENT

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
332	pdf	0.39

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
332_1	pdf	1.47

Dokumenter - eldre Søkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
332_01_WDSS_General_Information	pdf	0.27





Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
332_01_16_1_2_Completion_Log	pdf	1.65
332_01_16_1_2_Completion_report	pdf	3.26

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL	1714	2678
CST	200	1193
CST 2-3	0	0
FDC CNL	2662	2921
HDT	1800	2705
HDT	2662	2921
ISF SON GR	1264	2485
ISF SON GR	2050	2713
ISF SON GR	2622	2921
ISF SON GR CBL	324	1286
VEOCITY	0	0

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	172.0	36	172.0	0.00	LOT
SURF.COND.	20	325.0	26	340.0	0.00	LOT
INTERM.	13 3/8	1264.0	17 1/2	1285.0	0.00	LOT
INTERM.	9 5/8	2656.0	12 1/4	2732.0	0.00	LOT
OPEN HOLE		2917.0	8 1/2	2917.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
340	1.10			waterbased	
580	1.02			waterbased	





1285	1.10			waterbased	
2170	1.10			waterbased	
2731	1.11			waterbased	
2918	1.07			waterbased	

Tynnslip i Sokkeldirektoratet

Dybde	Enhet
2711.14	[m]
2426.29	[m]
2429.32	[m]
2432.35	[m]
2435.38	[m]
2438.41	[m]
2441.44	[m]
2444.47	[m]
2447.50	[m]
2450.53	[m]
2453.56	[m]
2456.59	[m]
2459.62	[m]
2462.65	[m]
2465.68	[m]
2477.80	[m]
2501.04	[m]
2522.25	[m]
2543.46	[m]
2564.67	[m]
2585.88	[m]
2603.06	[m]
2624.27	[m]
2645.48	[m]
2666.69	[m]
2690.93	[m]