



Generell informasjon

Brønnbane navn	34/7-16
Type	EXPLORATION
Formål	APPRAISAL
Status	SUSPENDED
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	VIGDIS
Funn	34/7-8 Vigdis
Brønn navn	34/7-16
Seismisk lokalisering	G/E 83 (RP) RAD 253 & KOL. 933
Utvinningstillatelse	089
Boreoperatør	Saga Petroleum ASA
Boretillatelse	640-L
Boreinnretning	SCARABEO 5
Boredager	47
Borestart	28.06.1990
Boreslutt	13.08.1990
Frigitt dato	13.08.1992
Publiseringsdato	28.02.2008
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	ETIVE FM
2. nivå med hydrokarboner, alder	MIDDLE JURASSIC
2. nivå med hydrokarboner, formasjon	RANNOCH FM
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	286.0
Totalt målt dybde (MD) [m RKB]	2700.0
Maks inklinasjon [°]	5.3
Temperatur ved bunn av brønnbanen [°C]	98
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	AMUNDSEN FM
Geodetisk datum	ED50



NS grader	61° 23' 13.06" N
ØV grader	2° 6' 59.12" E
NS UTM [m]	6806371.84
ØV UTM [m]	452792.04
UTM sone	31
NPDID for brønnbanen	1550

Brønnhistorie

General

Well 34/7-16 is located between the Statfjord and Snorre Fields on Tampen Spur in the Northern North Sea. The primary purpose of the well was to test the Brent Group reservoir on the C-Plus prospect. A secondary objective was to test the reservoir of the Statfjord Formation. The well was drilled on a high position of the structure and was estimated to reach the reservoir at 2349 m MSL. Shallow gas could occur at 448, 500, and 557 m.

Operations and results

Wildcat well 34/7-16 was spudded with the semi-submersible installation Scarabeo 5 on 13 August 1990 and drilled to TD at 2700 m in the Early Jurassic Amundsen formation. At this depth the well was temporary abandoned due to time schedule for the rig. No significant problems were encountered in the operations. The resistivity log indicated small amounts of gas in a sand layer at 447 m. Otherwise no indication of shallow gas was observed. The well was drilled with spud mud down to 922 m and with KCl mud from 922 m to TD.

Apart from the sandy Utsira Formation of Miocene/Pliocene age encountered between 976 - 1081 m the well penetrated mainly clay stone down to the Top Jurassic. Late Cretaceous (Coniacian age) sediments were found to rest unconformable on the Middle Jurassic Brent Group reservoir at 2390 m. The reservoir was hydrocarbon bearing. From the log, pressure gradient analyses, and FMT sampling the OWC was found at 2487 m, in the Rannoch Formation. Shows were recorded from 2 m above and to 2 m below the oil-bearing reservoir. Weak shows were also observed in the upper part of the Cook Formation.

Eight cores were cut in the well. One core was cut in the Shetland Group, from 1935 to 1953 m, for borehole stability studies. Seven cores were cut in the Brent Group and into the Dunlin Group (8.0 m), in the interval 2389 - 2522 m (driller's depth). The Brent core recovery was 130.8 m, i.e. 98%.

Four FMT segregated samples were taken in the Brent Group reservoir and the 1 gallon chambers sent to laboratory. Chamber STO 23 (2392 m) contained oil, while chamber STO 15 (2467.1 m) and chamber STO 24 (2486 m) contained small amounts of oil emulsified with water. Chamber STO 02 (2488 m) was filled with water contaminated with mud filtrate.

The well was suspended on 13 August 1990 for later re-entry and fulfilling of well objectives and testing. It is classified as an oil appraisal on the Vigdis Field.

Testing

No drill stem test was performed.



Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
930.00	2980.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerper i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
2	2389.1	2408.0	[m]
3	2408.2	2432.0	[m]
4	2436.0	2459.4	[m]
5	2460.0	2487.5	[m]
6	2487.5	2504.3	[m]
7	2504.5	2512.8	[m]

Total kjerneprøve lengde [m]	118.7
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



2389-2394m



2394-2399m



2399-2404m



2404-2408m



2408-2413m



2413-2418m



2418-2423m



2423-2428m



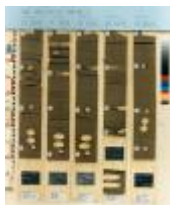
2428-2433m



2433-2436m



2436-2441m



2441-2446m



2446-2451m



2451-2456m



2456-2459m



2460-2465m



2465-2470m



2470-2475m



2475-2480m



2480-2485m



2485-2487m



2487-2492m



2492-2497m



2497-2502m



2502-2504m



2504-2509m



2509-2512m

Palynologiske preparater i Sakkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
930.0	[m]	DC	RRI
970.0	[m]	DC	RRI
1010.0	[m]	DC	RRI
1018.0	[m]	DC	RRI
1030.0	[m]	DC	RRI
1080.0	[m]	DC	RRI
1090.0	[m]	DC	RRI
1100.0	[m]	DC	RRI
1110.0	[m]	DC	RRI



1120.0	[m]	DC	RRI
1130.0	[m]	DC	RRI
1140.0	[m]	DC	RRI
1180.0	[m]	DC	RRI
1190.0	[m]	DC	RRI
1200.0	[m]	DC	RRI
1210.0	[m]	DC	RRI
1220.0	[m]	DC	RRI
1230.0	[m]	DC	RRI
1240.0	[m]	DC	RRI
1250.0	[m]	DC	RRI
1260.0	[m]	DC	RRI
1270.0	[m]	DC	RRI
1280.0	[m]	DC	RRI
1290.0	[m]	DC	RRI
1300.0	[m]	DC	RRI
1310.0	[m]	DC	RRI
1320.0	[m]	DC	RRI
1330.0	[m]	DC	RRI
1340.0	[m]	DC	RRI
1350.0	[m]	DC	RRI
1360.0	[m]	DC	RRI
1380.0	[m]	DC	RRI
1390.0	[m]	DC	RRI
1400.0	[m]	DC	RRI
1410.0	[m]	DC	RRI
1420.0	[m]	DC	RRI
1430.0	[m]	DC	RRI
1440.0	[m]	DC	RRI
1450.0	[m]	DC	RRI
1960.0	[m]	DC	RRI
1970.0	[m]	DC	RRI
1980.0	[m]	DC	RRI
2000.0	[m]	DC	RRI
2040.0	[m]	DC	RRI
2060.0	[m]	DC	RRI
2080.0	[m]	DC	RRI
2100.0	[m]	DC	RRI
2140.0	[m]	DC	RRI
2150.0	[m]	DC	RRI



2160.0	[m]	DC	RRI
2170.0	[m]	DC	RRI
2180.0	[m]	DC	RRI
2190.0	[m]	DC	RRI
2210.0	[m]	DC	RRI
2220.0	[m]	DC	RRI
2240.0	[m]	DC	RRI
2250.0	[m]	DC	RRI
2260.0	[m]	DC	RRI
2270.0	[m]	DC	RRI
2280.0	[m]	DC	RRI
2290.0	[m]	DC	RRI
2300.0	[m]	DC	RRI
2310.0	[m]	DC	RRI
2320.0	[m]	DC	RRI
2330.0	[m]	DC	RRI
2340.0	[m]	DC	RRI
2350.0	[m]	DC	RRI
2360.0	[m]	DC	RRI
2370.0	[m]	DC	RRI
2532.0	[m]	DC	RRI
2547.0	[m]	DC	RRI
2592.0	[m]	DC	RRI
2597.0	[m]	DC	RRI
2631.0	[m]	DC	RRI
2632.0	[m]	DC	RRI
2637.0	[m]	DC	RRI
2652.0	[m]	DC	RRI
2667.0	[m]	DC	RRI
2682.0	[m]	DC	RRI
2700.0	[m]	DC	RRI
2709.0	[m]	DC	RRI
2715.0	[m]	DC	RRI
2730.0	[m]	DC	RRI
2745.0	[m]	DC	RRI
2760.0	[m]	DC	RRI
2811.0	[m]	DC	RRI
2839.0	[m]	DC	RRI
2850.0	[m]	DC	RRI
2895.0	[m]	DC	RRI



2931.0 [m]	DC	RRI
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Oljeprøver i Sokkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
DST	DST3	2401.00	2414.00	OIL	06.10.1990 - 21:30	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
311	NORDLAND GP
1066	UTSIRA FM
1082	HORDALAND GP
1271	NO FORMAL NAME
1307	NO FORMAL NAME
1513	NO FORMAL NAME
1560	NO FORMAL NAME
1678	ROGALAND GP
1678	BALDER FM
1734	LISTA FM
1861	SHETLAND GP
1861	JORSALFARE FM
2150	KYRRE FM
2379	CROMER KNOLL GP
2379	RØDBY FM
2386	MIME FM
2390	BRENT GP
2390	ETIVE FM
2434	RANNOCH FM
2514	DUNLIN GP
2514	DRAKE FM
2603	COOK FM
2660	BURTON FM
2685	AMUNDSEN FM



Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
1550_01_WDSS_General_Information	pdf	0.23
1550_02_WDSS_completion_log	pdf	0.17

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
1550_34_7_16_COMPLETION_REPORT_AND_LOG	pdf	13.67

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL VDL GR	482	1914
CDL CNL GR	1914	2697
DIFL ACL CDL GR	907	1918
DIFL ACL GR	1914	2700
DIPLOG	910	1918
DIPLOG	1914	2538
DLL MLL GR	2373	2698
FMT	2392	2621
MWD - GR RES DIR TEMP	311	2701

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	383.0	36	389.0	0.00	LOT
INTERM.	20	907.0	26	922.0	1.43	LOT
INTERM.	13 3/8	1913.0	17 1/2	1928.0	1.73	LOT
INTERM.	9 5/8	2685.0	12 1/4	2700.0	1.83	LOT

Boreslam





Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 15.5.2024 - 02:09

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
380	1.03			WATER BASED	04.07.1990
778	1.03			WATER BASED	04.07.1990
915	1.03			WATER BASED	04.07.1990
915	1.03			WATER BASED	04.07.1990
915	1.03			WATER BASED	04.07.1990
915	1.03			WATER BASED	05.07.1990
922	1.03			WATER BASED	09.07.1990
922	1.03			WATER BASED	10.07.1990
922	1.03			WATER BASED	10.07.1990
922	1.03			WATER BASED	10.07.1990
1056	1.09	13.0	5.0	WATER BASED	12.07.1990
1464	1.12	16.0	9.0	WATER BASED	12.07.1990
1649	1.30	21.0	14.0	WATER BASED	13.07.1990
1815	1.48	26.0	14.0	WATER BASED	16.07.1990
1928	1.55	27.0	16.0	WATER BASED	16.07.1990
1928	1.53	24.0	14.0	WATER BASED	16.07.1990
1928	1.53	25.0	15.0	WATER BASED	19.07.1990
1928	1.53	25.0	13.0	WATER BASED	01.08.1990
1928	1.53	25.0	14.0	WATER BASED	01.08.1990
1928	1.53	25.0	15.0	WATER BASED	01.08.1990
1928	1.53	25.0	15.0	WATER BASED	01.08.1990
1935	1.53	23.0	14.0	WATER BASED	01.08.1990
1951	1.53	23.0	15.0	WATER BASED	01.08.1990
2030	1.55	24.0	10.0	WATER BASED	01.08.1990
2199	1.62	25.0	12.0	WATER BASED	01.08.1990
2199	1.62	25.0	12.0	WATER BASED	31.07.1990
2351	1.70	31.0	17.0	WATER BASED	31.07.1990
2351	1.70	31.0	17.0	WATER BASED	01.08.1990
2389	1.71	31.0	14.0	WATER BASED	01.08.1990
2389	1.71	32.0	16.0	WATER BASED	01.08.1990
2389	1.71	31.0	17.0	WATER BASED	01.08.1990
2389	1.71	36.0	17.0	WATER BASED	01.08.1990
2389	1.71	34.0	15.0	WATER BASED	03.08.1990
2389	1.71	36.0	15.0	WATER BASED	03.08.1990
2389	1.71	34.0	18.0	WATER BASED	03.08.1990
2389	1.71	25.0	11.0	WATER BASED	13.08.1990
2389	1.71			WATER BASED	14.08.1990



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 15.5.2024 - 02:09

2389	1.71	25.0	14.0	WATER BASED	14.08.1990
2389	1.71	33.0	16.0	WATER BASED	01.08.1990