



Generell informasjon

Brønnbane navn	34/7-17 A
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	VIGDIS
Funn	34/7-8 Vigdis
Brønn navn	34/7-17
Seismisk lokalisering	GE-83 ROW 341 COL 1025
Utvinningstillatelse	089
Boreoperatør	Saga Petroleum ASA
Boretillatelse	677-L
Boreinnretning	TREASURE SAGA
Boredager	28
Borestart	07.04.1991
Boreslutt	04.05.1991
Frigitt dato	04.05.1993
Publiseringsdato	28.02.2008
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	OIL/GAS
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	TARBERT FM
Avstand, boredekk - midlere havflate [m]	26.0
Vanndybde ved midlere havflate [m]	259.0
Totalt målt dybde (MD) [m RKB]	2650.0
Maks inklinasjon [°]	43
Temperatur ved bunn av brønnbanen [°C]	96
Eldste penetrerte alder	MIDDLE JURASSIC
Eldste penetrerte formasjon	ETIVE FM
Geodetisk datum	ED50
NS grader	61° 20' 50.69" N
ØV grader	2° 5' 42.31" E
NS UTM [m]	6801982.38



ØV UTM [m]	451591.07
UTM sone	31
NPDID for brønnbanen	1536

Brønnhistorie

General

Well 34/7-17 A is a sidetrack to well 34/7-17 on the Vigdis Field on Tampen Spur in the Northern North Sea. In well 34/7-17 the primary target Brent reservoir was encountered 38 m deeper than prognosed and dry with only scattered oil shows. The 34/7-17 A sidetracked well thus aimed primarily at the Brent reservoir in an up-dip position above a possible OWC. According to prognosis Brent should be truncated in this direction. A secondary objective was to test the pressure regimes in the Jurassic sequence, including possible depletion associated with pressure communication, previously identified in the nearby Tordis Field.

Operations and results

Well 34/7-17 A was spudded with the semi-submersible installation Treasure Saga on 7 April 1991. Kick off point was at 1994 m below the 13 3/8" casing shoe in well 34/7-17, in the top of the Shetland Group. The target was located up-dip in a south-easterly direction and the sidetrack was drilled deviated from its beginning. The well was drilled without significant technical problems to TD at 2650 m (2557 m TVD) in the Middle Jurassic Eive Formation of the Brent Group. It was drilled with KCl mud from kick off to TD.

Top Brent Group, Tarbert Formation, was penetrated at 2494.5 m (2439.5 m TVD). Truncation was confirmed by the absence of the Viking Group and erosion into the top of the Brent Group. The Brent Group proved to be oil bearing only in the uppermost 6.5 m TVD with a possible OWC at 2502.5 m (2446 m TVD / 2420 m MSL TVD). Above the reservoir ditch cuttings recorded a continuous sequence with good traces of oil shows between 2235 and Top Brent Group. The interval 2310 to 2370 m also had oil staining and a strong odour of hydrocarbons. No shows were reported below 2506 m.

One core was cut in the top of the reservoir between 2597 and 2617. Totally 21 m was cut, of which 20 m was recovered.

Two RFT runs were conducted over the Brent Group. The resulting pressure gradients showed the Tarbert Formation to be under-pressured by 5.1 bar compared to the underlying Formations of the Brent Group with transitional pressures in the Ness Formation. Two RFT segregated samples were recovered from 2495.5 and 2495.7 m in the top of the Tarbert Formation. Both contained mud and water with a film of oil.

The well was permanently abandoned on 4 May 1991 as an oil appraisal.

Testing

One well test was carried out in the top of the Brent Group over the interval 2495 to 2499 m. The test was performed with variable, increasing choke sizes and it produced fluids with increasing water cut. At the end of the test a total liquid flow rate of 700 Sm³/day through a 15.9 mm choke was recorded at a well head pressure of 49 bar. The water cut at this end was 70%, the separator GOR was 115 Sm³/Sm³, the dead oil density was 0.850 g/cm³, and the gas gravity was 0.8 (air = 1). The maximum bottom hole



Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1995.00	2649.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2497.0	2517.0	[m]

Total kjerneprøve lengde [m]	20.0
Kjerner tilgjengelig for prøvetaking?	YES

Oljeprøver i Sokkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
DST	DST1	2495.00	2499.00			YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
285	NORDLAND GP
1050	UTSIRA FM
1070	HORDALAND GP
1257	NO FORMAL NAME
1331	NO FORMAL NAME
1403	NO FORMAL NAME
1423	NO FORMAL NAME
1699	ROGALAND GP
1699	BALDER FM
1770	LISTA FM



1924	SHETLAND GP
1924	JORSALFARE FM
2126	KYRRE FM
2483	CROMER KNOLL GP
2483	RØDBY FM
2487	MIME FM
2495	BRENT GP
2495	TARBERT FM
2521	NESS FM
2572	ETIVE FM

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
1536_1	pdf	0.39
1536_2	pdf	5.66

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
1536_01_WDSS_General_Information	pdf	0.38
1536_02_WDSS_completion_log	pdf	0.15

Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsven til størrelse [mm]
1.0	2495	2499	15.6

Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningstrykk [MPa]	Bunnhullstrykk [MPa]	Borehullstemperatur [°C]
1.0	5.000		25.000	91





Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstyngde rel. luft	GOR [m3/m3]
1.0	719	36000	0.850	0.800	50

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
DITE MSFL SDT GR SP	1953	2647
LDL CNL GR	1953	2650
MWD GRD - GR RES DIR	1994	2650
RFT GR	2495	2614
SHDT GR	1953	2651

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
INTERM.	9 5/8	2633.0	12 1/4	2650.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
2460	1.65	27.0	15.0	WATER BASED	10.04.1991
2460	1.65	28.0	19.0	WATER BASED	10.04.1991
2460	1.65	28.0	19.0	WATER BASED	11.04.1991
2460	1.65	28.0	19.0	WATER BASED	15.04.1991
2460	1.65	28.0	19.0	WATER BASED	17.04.1991
2460	1.65	28.0	19.0	WATER BASED	12.04.1991
2493	1.70	33.0	21.0	WATER BASED	17.04.1991
2493	1.70	35.0	22.0	WATER BASED	23.04.1991
2493	1.70	33.0	19.0	WATER BASED	29.04.1991
2493	1.70	34.0	18.0	WATER BASED	30.04.1991
2493	1.70	34.0	18.0	WATER BASED	03.05.1991
2493	1.70	33.0	19.0	WATER BASED	06.05.1991
2493	1.70	36.0	18.0	WATER BASED	17.04.1991
2493	1.70	32.0	21.0	WATER BASED	17.04.1991
2493	1.70	33.0	21.0	WATER BASED	18.04.1991



2493	1.70	33.0	21.0	WATER BASED	19.04.1991
2493	1.70	32.0	21.0	WATER BASED	23.04.1991
2493	1.70	33.0	21.0	WATER BASED	23.04.1991
2493	1.70	35.0	19.0	WATER BASED	25.04.1991
2493	1.70	36.0	19.0	WATER BASED	25.04.1991
2493	1.70	36.0	19.0	WATER BASED	26.04.1991
2493	1.70	36.0	15.0	WATER BASED	30.04.1991
2493	1.70	33.0	19.0	WATER BASED	30.04.1991
2493	1.70	33.0	19.0	WATER BASED	02.05.1991
2493	1.70			WATER BASED	03.05.1991
2493	1.70			WATER BASED	03.05.1991
2493	1.70	36.0	15.0	WATER BASED	03.05.1991
2493	1.70	36.0	15.0	WATER BASED	03.05.1991
2493	1.70	34.0	18.0	WATER BASED	03.05.1991
2493	1.70	34.0	18.0	WATER BASED	03.05.1991
2493	1.70	33.0	19.0	WATER BASED	03.05.1991
2493	1.70	34.0	18.0	WATER BASED	06.05.1991

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]
1536 Formation pressure (Formasjonstrykk)	pdf	0.21

