



Generell informasjon

Brønnbane navn	25/7-3
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	JOTUN
Funn	25/7-3 Jotun
Brønn navn	25/7-3
Seismisk lokalisering	ES 94-3 INLINE 1314 & CROSSLINE 1765
Utvinningstillatelse	103
Boreoperatør	Conoco Norway Inc.
Boretillatelse	819-L
Boreinnretning	DEEPSEA BERGEN
Boredager	33
Borestart	27.07.1995
Boreslutt	28.08.1995
Frigitt dato	28.08.1997
Publiseringsdato	29.08.2003
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	PALEOCENE
1. nivå med hydrokarboner, formasjon.	HEIMDAL FM
Avstand, boredekk - midlere havflate [m]	23.0
Vanndybde ved midlere havflate [m]	127.0
Totalt målt dybde (MD) [m RKB]	2540.0
Totalt vertikalt dybde (TVD) [m RKB]	2539.2
Maks inklinasjon [°]	3
Temperatur ved bunn av brønnbanen [°C]	95
Eldste penetrerte alder	LATE CRETACEOUS
Eldste penetrerte formasjon	TOR FM
Geodetisk datum	ED50
NS grader	59° 26' 8.81" N



ØV grader	2° 19' 28" E
NS UTM [m]	6588925.44
ØV UTM [m]	461677.84
UTM sone	31
NPDID for brønnbanen	2623

Brønnhistorie

General

Well 25/7-3 was a discretionary exploration well approximately 3 km south-south west of well 25/8-5 S which discovered oil in the Elli structure. Block 25/7 is situated in the South Viking Graben on the western side of the Utsira High, a basement high that tilts slightly towards the east. The South Viking Graben has an asymmetrical profile bounded in the west by the Brae/Crawford Fault Zone and the Utsira High to the east. The Elli structure is located on a basement terrace stepping up to the Utsira High from the Graben area.

The primary objective of well 25/7-3 was to prove commercial reserves in Elli South by testing the hydrocarbon potential of the Paleocene Upper Heimdal Formation. Secondary objectives were to define fluid contacts within the Heimdal Formation, to provide sufficient data for development planning start-up, find a possible point of production should the results be positive, and to obtain a good well tie to the top Cretaceous and top Balder seismic reflectors.

Operations and results

Exploration well 25/7-3 was spudded with the semi-submersible installation "Deepsea Bergen" on 27 July 1995 and drilled to TD at 2540 m in the Late Cretaceous Tor Formation. The AFE estimated time for the well was 28.1 days dry hole plus 10.5 days to DST. Actual estimated drilling time was 23.6 days, and testing was 9.8 days. The well was drilled with bentonite spud mud down to 1186 m and with "ANCO 2000" mud with ANCO 208 glycol additive from 1186 m to TD. Top Lista Formation came in at 2052 m, ca 20 shallower than prognosed. Top Heimdal Formation was found at 2094 m. The Heimdal Formation was hydrocarbon bearing with an OWC at 2114.5 m.

Two cores were cut in the Heimdal Formation, both with full recovery. The first core was cut 2099-2110.6 m, and the second at 2111-2130.2 m. Shows were described in the cores down to a depth of 2117 m. A total of 20 FMT pressure tests were taken, with 19 successfully recorded. An FMT oil sample was taken at the depth of 2112 m. The fluid was described as medium to dark brown with moderate viscosity and dull to intermediate white to pale yellow direct fluorescence. The well was permanently abandoned on 28 August 1995 as an oil discovery, named the 25/7-3 Jotun Discovery.

Testing

One drill stem test was performed in the Heimdal Formation sandstones (2096.4-2107.4 m). Final oil flow was 739 Sm³/day and final gas flow was 29207 Sm³/day.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1200.00	2540.00



Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2099.0	2110.6	[m]
2	2111.0	2130.2	[m]

Total kjerneprøve lengde [m]	30.8
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



2099-2110m



2099-2110m



2099-2110m



2099-2110m



2099-2110m



2099-2110m



2099-2110m



2099-2110m



2099-2110m



2099-2110m



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2099-2110m



2099-2110m



2099-2110m





2099-2110m 2099-2110m 2099-2110m 2099-2110m 2099-2110m



2099-2110m



2099-2110m



2099-2110m



2111-2130m



2111-2130m



2111-2130m



2111-2130m



2111-2130m



2111-2130m



2111-2130m



2111-2130m



2111-2130m



2111-2130m



2111-2130m



2111-2130m



2111-2130m



2111-2130m



2111-2130m



2111-2130m



2110-2130m



2111-2130m



2111-2130m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
1620.0	[m]	DC	RRI



1760.0	[m]	DC	RRI
1780.0	[m]	DC	RRI
1800.0	[m]	DC	RRI
1820.0	[m]	DC	RRI
1840.0	[m]	DC	RRI
1860.0	[m]	DC	RRI
1880.0	[m]	DC	RRI
1900.0	[m]	DC	RRI
1920.0	[m]	DC	RRI
1930.0	[m]	DC	RRI
1940.0	[m]	DC	RRI
1960.0	[m]	DC	RRI
2001.0	[m]	DC	RRI
2019.0	[m]	DC	RRI
2140.0	[m]	DC	RRI
2160.0	[m]	DC	RRI
2240.0	[m]	DC	RRI
2260.0	[m]	DC	RRI
2280.0	[m]	DC	RRI
2300.0	[m]	DC	RRI
2350.0	[m]	DC	RRI
2380.0	[m]	DC	RRI
2400.0	[m]	DC	RRI
2440.0	[m]	DC	RRI
2480.0	[m]	DC	RRI
2500.0	[m]	DC	RRI
2520.0	[m]	DC	RRI
2540.0	[m]	DC	RRI

Oljeprøver i Søkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
DST	DST1	2107.40	2096.40	OIL	22.08.1995 - 02:00	YES

Litostratigrafi



Topp Dyb [mMD RKB]	Litostrat. enhet
150	NORDLAND GP
436	UTSIRA FM
590	NO FORMAL NAME
632	HORDALAND GP
632	SKADE FM
991	NO FORMAL NAME
1236	GRID FM
1299	NO FORMAL NAME
1937	ROGALAND GP
1937	BALDER FM
1996	SELE FM
2052	LISTA FM
2094	HEIMDAL FM
2326	LISTA FM
2449	VÅLE FM
2472	TY FM
2485	SHETLAND GP
2485	TOR FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
2623	pdf	0.40

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
2623_1	pdf	1.76
2623_2	pdf	1.05

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
2623_25_7_3_COMPLETION_REPORT_AND_LOG	pdf	150.93





Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsven til størrelse [mm]
1.0	2096	2107	25.4

Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningstrykk [MPa]	Bunnhullstrykk [MPa]	Borehullstemperatur [°C]
1.0	2.000		17.000	83

Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstyngde rel. luft	GOR [m3/m3]
1.0	739	29207	0.839		39

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
DLL MLL GR	1955	2530
FMT GR	2097	2270
HDIP GR	1945	2534
MWD - DIR GR SN	227	1186
MWD - DIR GR SN	1186	1966
MWD DPR - DIR GR SN	1966	2540
SWC	1962	2483
SWC	1973	2081
VSP	1000	2520
ZDL CN MAC SL	1955	2528

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	223.0	36	223.0	0.00	LOT
SURF.COND.	13 3/8	1179.0	17 1/2	1180.0	1.56	LOT
INTERM.	9 5/8	1958.0	12 1/4	1960.0	1.70	LOT





LINER	7	2540.0	8 1/2	2540.0	0.00	LOT
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Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
172	1.03			SPUD MUD	
792	1.03			SPUD MUD	
1186	1.46		16.0	KCL/glycol	
1966	1.50		13.3	ANCO 2000	

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]
2623 Formation pressure (Formasjonstrykk)	pdf	0.20

