



Generell informasjon

Brønnbane navn	25/4-7
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	ALVHEIM
Funn	25/4-7 Alvheim
Brønn navn	25/4-7
Seismisk lokalisering	line 1026 & trace 4924 NH9601
Utvinningstillatelse	203
Boreoperatør	Marathon Petroleum Norge AS
Boretillatelse	1053-L
Boreinnretning	DEEPSEA BERGEN
Boredager	27
Borestart	21.03.2003
Boreslutt	17.04.2003
Frigitt dato	17.04.2005
Publiseringsdato	22.04.2005
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]	119.0
Totalt målt dybde (MD) [m RKB]	2286.0
Totalt vertikalt dybde (TVD) [m RKB]	2286.0
Maks inklinasjon [°]	2.6
Temperatur ved bunn av brønnbanen [°C]	73
Eldste penetrerte alder	PALEOCENE
Eldste penetrerte formasjon	HEIMDAL FM
Geodetisk datum	ED50



NS grader	59° 32' 52.15" N
ØV grader	2° 1' 10.91" E
NS UTM [m]	6601616.73
ØV UTM [m]	444575.09
UTM sone	31
NPDID for brønnbanen	4716

Brønnhistorie

General

The Kneler well 25/4-7 was designed as an exploratory test of an irregular 4-way closure midway between the Kameleon structure (discovered by well 24/6-2 in 1998), and the Gekko structure (discovered by well 25/4-3 in 1974), which found a thin hydrocarbon column. The primary reservoir target was the Paleocene Heimdal formation. Well 25/4-7 was designed to provide local structural control to reduce uncertainty in field size and also provide stratigraphic control, particularly the position and character of a shale horizon at the base of the Upper Heimdal reservoir.

Operations and results

Exploration well 25/4-7 was spudded with the semi-submersible installation Deepsea Bergen on 21 March 2003 and drilled to TD at 2286 m in the Paleocene Heimdal Formation. The well was drilled without significant problems. A number of attempts to get wire line tools to TD failed due to hole obstructions. Hole opening of the 12 1/4" section to 8 1/2" was performed in several steps. Between hole opening operations logging was attempted with variable success. Logs were finally acquired down to 2242 m. The well was drilled with seawater down to 1317 m and with Carbosea oil based mud from 1317 m to TD.

The Heimdal Formation was encountered at 2084.5 m and from logs, MDT sampling, and shows on cores and cuttings it was oil bearing down to the OWC at 2132.5 m. The Heimdal Formation at this location consists of an upper, heterolithic

dominated sequence down to 2105.5 m and more massive sandstone below that depth.

A total of 53 m of core (97.7 % recovery) was cut in two cores in the interval from 2104 m to 2157 m in the Heimdal formation. MDT fluid samples were taken at 2086.4 m (oil), 2110.0 m (oil), and at 2144.7 m (water).

The well was suspended as an oil discovery on 17 April 2003

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1320.00	2286.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2104.0	2129.8	[m]
2	2130.0	2156.2	[m]

Total kjerneprøve lengde [m]	52.0
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
MDT		2110.00	0.00	OIL	14.04.2003 - 04:35	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
142	NORDLAND GP
368	UTSIRA FM
727	HORDALAND GP
1216	GRID FM
1320	HORDALAND GP
1895	ROGALAND GP
1895	BALDER FM
2005	SELE FM
2039	LISTA FM
2085	HEIMDAL FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
4716	pdf	0.20





Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
4716_25_4_7_COMPLETION_LOG	.pdf	24.81
4716_25_4_7_COMPLETION_REPORT	.pdf	0.62

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
MDT GR	2085	2157
PEX DSI AIT	202	2025
PEX DSI AIT	1306	1373
PEX DSI AIT	1970	2235
VSI GR	750	2191

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	202.0	36	204.0	0.00	LOT
SURF.COND.	13 3/8	1308.0	17 1/2	1317.0	1.50	LOT
OPEN HOLE		2286.0	8 1/2	2286.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
1200	1.01	16.0		SEAWATER	
1317	1.20	25.0		SPUD MUD	
1334	1.20	18.0		OIL (REGULAR)	
1980	1.33	22.0		OIL (REGULAR)	
2212	1.25	18.0		OIL (REGULAR)	
2286	1.25	19.0		OIL (REGULAR)	

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]
4716 Formation pressure (Formasjonstrykk)	pdf	0.22

