



Generell informasjon

Brønnbane navn	25/8-9 A
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Funn	25/8-9
Brønn navn	25/8-9
Seismisk lokalisering	ES 9403 INLINE - 1173 & CROSSLINE - 25
Utvinningstillatelse	189
Boreoperatør	Amerada Hess Norge AS
Boretillatelse	880-L
Boreinnretning	BYFORD DOLPHIN
Boredager	17
Borestart	29.01.1997
Boreslutt	14.02.1997
Plugget og forlatt dato	14.02.1997
Frigitt dato	14.02.1999
Publiseringsdato	29.08.2003
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	PALEOCENE
1. nivå med hydrokarboner, formasjon.	HEIMDAL FM
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	125.0
Totalt målt dybde (MD) [m RKB]	2687.0
Totalt vertikalt dybde (TVD) [m RKB]	2223.0
Maks inklinasjon [°]	56.68
Eldste penetrerte alder	PALEOCENE
Eldste penetrerte formasjon	LISTA FM
Geodetisk datum	ED50
NS grader	59° 28' 6.08" N
ØV grader	2° 30' 24.9" E



NS UTM [m]	6592462.13
ØV UTM [m]	472055.66
UTM sone	31
NPDID for brønnbanen	3025

Brønnhistorie



General

Well 25/8-9 is located East-Northeast of the Jotun Field. The two main objectives for drilling well 25/8-9 were to test the hydrocarbon potential of Early Palaeocene Heimdal Formation sandstones (Krap prospect) and secondly sandstones of the Middle Jurassic Hugin Formation. The well found oil in the Early Heimdal Formation and it was decided to sidetrack (25/8-9 A) to appraise and test the hydrocarbon potential in this discovery.

Operations and results

Exploration well 25/8-9 was spudded with the semi-submersible installation "Byford Dolphin" on 5 January 1997 and drilled to TD at 2548 m in the Early Jurassic Amundsen Formation. The well was drilled with seawater and pre-hydrated bentonite sweeps down to 1110 m and with "ANCOVERT" oil based mud from 1110 m to TD. No shallow gas or boulder beds were encountered in the uppermost well section. Well 25/8-9 penetrated mainly clays and claystones in the Nordland, Hordaland, and Rogaland groups with both the Utsira (694 m to 905 m) and Grid (1300.5 m to 1345.0 m) Formation sandstones being present. Interbedded shales and thin Heimdal Formation sands were encountered between 2096 and 2189 m and hydrocarbons were found present in the uppermost reservoir section, however reservoir quality proved very poor. A FWL/OWC was not possible to define either from MDT (pressure) or logs, but an ODT at 2069 m TVD SS was established. Top Ty Formation was reached at 2228 m, consisting of upper clean sand divided by a shaly unit from a lower clean sandstone divided by a thin shale bed. It continued down to top Shetland Group at 2323 m. No hydrocarbons were found in the Ty Formation. The Shetland Group consisted mainly of chalk with the Cromer Knoll Group consisting of limestones interbedded with claystones and marls.

The Hugin Formation sandstones came in at 2432 m and were found to be water bearing. One core totalling 27 metres was cut in the interval 2098 m to 2126 m in the Heimdal Formation. Two cores totalling 50 metres were cut from 2440 m to 2490 m in the Hugin and Sleipner Formations, showing excellent reservoir parameters. Two MDT fluid samples were taken in the Heimdal Formation at 2097.9 m (oil) and 2110.8 m (water). PVT analysis showed the fluid was 99% formation oil and 1% oil phase filtrate in the oil sample. It was impossible to keep sample pressure above 2300 PSI due to tight formation. Pressure increased very slowly after chamber was filled.

After plugging back to 1107 m the geological sidetrack, well 25/8-9A, commenced on 29 January 1997. The sidetrack was kicked off at 1122 m and drilled to a total depth of 2687 m (2223 m TVD RKB) as prognosed, 49 metres (true vertical thickness) into sediments of the Late Paleocene Lower Lista Formation. The sidetrack was drilled oil-based ("ANCOVERT") from kick off to TD. The well penetrated mainly clays and claystones in the Hordaland and Rogaland groups with the Grid Formation sandstones being present from 1292 m to 1355.0 m. Interbedded shales and thin Heimdal Formation sands were encountered between 2478.0 m and 2607 m. Hydrocarbons (oil) were found present in the uppermost reservoir section, however, reservoir quality proved very poor. Two cores totalling 53.8 metres were cut in the interval 2495 m to 2551 m in the Heimdal Formation. Two MDT fluid samples were taken in the Heimdal Formation at 2492.1 m (oil) and 2508.3 m (water). Laboratory analysis indicated 20 - 25 % mud filtrate in the oil sample. Again, as in the primary wellbore, a FWL/OWC was not possible to define due to high shale/calcification content and tight formation. In this wellbore ODT was established at 2078 m TVD SS. Due to low productivity none of the wellbores were drill stem tested. Wellbore 25/8-9 was permanently plugged and abandoned as an oil discovery on 14 February 1997.

Testing

No drill stem test was performed.



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 15.5.2024 - 15:27

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1120.00	2685.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerner i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2495.0	2522.1	[m]
2	2523.0	2549.7	[m]

Total kjerneprøve lengde [m]	53.8
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



2495-2500m



2500-2505m



2505-2510m



2510-2515m



2515-2520m



2520-2522m



2523-2528m



2528-2533m



2533-2538m



2538-2543m



2543-2548m



2548-2550m



Palyologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
1120.0	[m]	DC	RRI
1150.0	[m]	DC	RRI
1180.0	[m]	DC	RRI
1210.0	[m]	DC	RRI
1240.0	[m]	DC	RRI
1270.0	[m]	DC	RRI
1300.0	[m]	DC	RRI
1330.0	[m]	DC	RRI
1360.0	[m]	DC	RRI
1390.0	[m]	DC	RRI
1420.0	[m]	DC	RRI
1450.0	[m]	DC	RRI
1480.0	[m]	DC	RRI
1510.0	[m]	DC	RRI
1550.0	[m]	DC	RRI
1590.0	[m]	DC	RRI
1630.0	[m]	DC	RRI
1670.0	[m]	DC	RRI
1710.0	[m]	DC	RRI
1750.0	[m]	DC	RRI
1770.0	[m]	DC	RRI
1790.0	[m]	DC	RRI
1810.0	[m]	DC	RRI
1830.0	[m]	DC	RRI
1850.0	[m]	DC	RRI
1870.0	[m]	DC	RRI
1890.0	[m]	DC	RRI
1910.0	[m]	DC	RRI
1930.0	[m]	DC	RRI
1950.0	[m]	DC	RRI
1975.0	[m]	DC	RRI
1990.0	[m]	DC	RRI
2010.0	[m]	DC	RRI
2035.0	[m]	DC	RRI
2050.0	[m]	DC	RRI
2070.0	[m]	DC	RRI
2090.0	[m]	DC	RRI



2110.0	[m]	DC	RRI
2130.0	[m]	DC	RRI
2140.0	[m]	DC	RRI
2150.0	[m]	DC	RRI
2160.0	[m]	DC	RRI
2180.0	[m]	DC	RRI
2200.0	[m]	DC	RRI
2220.0	[m]	DC	RRI
2240.0	[m]	DC	RRI
2260.0	[m]	DC	RRI
2280.0	[m]	DC	RRI
2300.0	[m]	DC	RRI
2320.0	[m]	DC	RRI
2340.0	[m]	DC	RRI
2360.0	[m]	DC	RRI
2370.0	[m]	DC	RRI
2380.0	[m]	DC	RRI
2391.0	[m]	DC	RRI
2400.0	[m]	DC	RRI
2421.0	[m]	DC	RRI
2439.0	[m]	DC	RRI
2460.0	[m]	DC	RRI
2481.0	[m]	DC	RRI
2495.2	[m]	C	RRI
2498.4	[m]	C	RRI
2502.6	[m]	C	RRI
2504.0	[m]	C	RRI
2511.6	[m]	C	RRI
2516.8	[m]	C	RRI
2521.9	[m]	C	RRI
2525.1	[m]	C	RRI
2528.3	[m]	C	RRI
2531.0	[m]	C	RRI
2535.0	[m]	C	RRI
2540.0	[m]	C	RRI
2540.4	[m]	C	RRI
2545.0	[m]	C	RRI
2559.0	[m]	DC	RRI
2574.0	[m]	SWC	RRI
2584.0	[m]	SWC	RRI



2611.0	[m]	SWC	RRI
2636.0	[m]	SWC	RRI
2640.0	[m]	DC	RRI
2660.0	[m]	DC	RRI
2670.0	[m]	SWC	RRI
2687.0	[m]	SWC	RRI

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
150	NORDLAND GP
550	UTSIRA FM
780	NO FORMAL NAME
790	HORDALAND GP
790	SKADE FM
905	NO FORMAL NAME
1292	GRID FM
1355	NO FORMAL NAME
2149	ROGALAND GP
2149	BALDER FM
2294	SELE FM
2376	LISTA FM
2478	HEIMDAL FM
2607	LISTA FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
3025	pdf	0.40

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
3025_1	pdf	1.57
3025_2	pdf	0.92





Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
3025_25_8_9_A_COMPLETION_REPORT	pdf	43.77

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
AIT DSI GPIT GR AMS SP	1085	2689
CST GR	2578	2689
MDT DP	0	0
MDT DP	0	0
MDT GR AMS	2492	2595
MDT GR AMS	2492	2508
MWD - DIR FE	1107	2495
MWD - DIR FE	2495	2687
UBI IPL GR AMS	1085	2680
VSP	1085	2680

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	222.0	38	222.0	0.00	LOT
SURF.COND.	9 5/8	1100.0	12 1/4	1100.0	0.00	LOT
OPEN HOLE		2687.0	8 1/2	2687.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
1570	1.29	29.0		ANCOVERT OBM	
2155	1.30	37.0		ANCOVERT OBM	
2523	1.31	30.0		ANCOVERT OBM	
2603	1.32	32.0		ANCOVERT OBM	
2687	1.31	35.0		ANCOVERT OBM	





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]
3025 Formation pressure (Formasjonstrykk)	pdf	0.22

