



Generell informasjon





Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 13.5.2024 - 23:46

Brønnbane navn	24/12-1 R
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	24/12-1
Seismisk lokalisering	SD 260 line 403-329
Utvinningstillatelse	045
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	189-L2
Boreinnretning	TREASURE SEEKER
Boredager	69
Borestart	07.06.1978
Boreslutt	14.08.1978
Plugget og forlatt dato	14.08.1978
Frigitt dato	14.08.1980
Publiseringsdato	01.12.2004
Opprinnelig formål	WILDCAT
Gjenåpnet	YES
Årsak til gjenåpning	DRILLING/PLUGGING
Innhold	OIL SHOWS
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	113.0
Totalt målt dybde (MD) [m RKB]	4825.0
Totalt vertikalt dybde (TVD) [m RKB]	4825.0
Temperatur ved bunn av brønnbanen [°C]	141
Eldste penetrerte alder	TRIASSIC
Eldste penetrerte formasjon	NO GROUP DEFINED
Geodetisk datum	ED50
NS grader	59° 2' 29.8" N
ØV grader	1° 52' 57.93" E
NS UTM [m]	6545372.48
ØV UTM [m]	435888.07
UTM sone	31
NPDID for brønnbanen	513



Brønnhistorie

General

Well 24/12-1 R is located on the Gudrun Terrace, about 15 km east of British sector. The purpose of the well was to evaluate a seismic closure, named Gamma, in the southern part of the Block. The main objective was the Middle Jurassic sands. Well 24/12-1 R is a re-entry of well 24/12-1, which was suspended after setting the 9 5/8" casing at a TD of 3966 m in the Early Cretaceous.

Operations and results

Wildcat well 24/12-1 R was spudded with the semi-submersible installation Treasure Seeker on 7 June 1978 and drilled to TD at 4825 meter in the Triassic Group. Three cement plugs were drilled in the 9 5/8" casing using the existing mud left in the hole before re-entry. The 9 5/8" casing shoe was drilled out at 3966 meters using 1.93 - 1.94 R.D. mud weight. After drilling the shoe, circulation and rotation stopped as the pipe stuck at 3968 meters. The pipe was freed and pipe rubbers that had been stripped were circulated out. Resumed drilling and raised mud wt. to 2.00 R.D. Ran core barrel from 4160 meters to 4182 meters, after running core barrel raised mud weight in active system to 2.04 R.D. due to background gas. Turbine drilling was continued to TD. When the sub sea assembly was pulled when abandoning the well it was realized that the rig for some time during the operation must have been off location. Severe wear on the flex-joint and bag preventers was discovered. This probable rig offset also caused several of the drill pipe rubber protectors to be torn off, which probably caused the stuck pipe at 3968 m. The rubbers were circulated out of the hole during several days and caused directly or indirectly many days of lost rig-time. The well was drilled with a Spersene / XP-20 / Resinex lignosulphonate / lignite mud system from re-entry depth to TD.

The Late Jurassic Draupne Formation was encountered at 4055 m and was 85 m thick. Below this depth 210 m of alternating Heather Formation shale and Intra Heather Formation Sandstone was penetrated. The target Middle Jurassic sandstones were encountered in the Vestland Group at 4350 m which consisted of 348 m interbedded shale and sandstone. Massive coals were frequent in the upper part down to 4361 m. Oil shows were recorded in sandstone in the interval 4180 m to 4225 m, mainly in the uppermost Intra Heather Formation Sandstone. Below this depth weak patchy shows were recorded down to 4431 m. Organic geochemical analyses found rich source rock potential for oil in the Draupne Formation (TOC = 3.5 % to 4.3 %). The formation had reached oil window maturity (%Ro = 0.8). Three cores were cut in the intervals 4170.5 m to 4173.3 m, 4173.3 m to 4178.9 m, and 4178.9 m to 4182.0 m. No Fluid sample was taken.

The well was permanently abandoned on 14 August 1978 as a well with oil shows.

Testing

No drill stem test was performed

Borekjerner i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	4170.5	4172.8	[m]



2	4172.8	4178.2	[m]
3	4178.9	4182.0	[m]

Total kjerneprøve lengde [m]	10.8
Kjerner tilgjengelig for prøvetaking?	YES

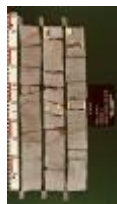
Kjernebilder



4170-4172m



4172-4175m



4175-4178m



4178-4179m



4179-4181m



4181-4182m

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
138	NORDLAND GP
497	UTSIRA FM
732	NO FORMAL NAME
850	HORDALAND GP
850	SKADE FM
1007	NO FORMAL NAME
1502	GRID FM
1660	NO FORMAL NAME
2190	ROGALAND GP
2190	BALDER FM
2255	SELE FM
2307	LISTA FM
2326	HEIMDAL FM
2700	LISTA FM



2763	VÅLE FM
2768	SHETLAND GP
2768	EKOFISK FM
2784	TOR FM
3080	HOD FM
3550	TRYGGVASON FM
3672	BLØDØKS FM
3681	SVARTE FM
3848	CROMER KNOLL GP
3848	RØDBY FM
3945	SOLA FM
4004	ÅSGARD FM
4055	VIKING GP
4055	DRAUPNE FM
4140	HEATHER FM
4164	INTRA HEATHER FM SS
4215	HEATHER FM
4235	INTRA HEATHER FM SS
4295	HEATHER FM
4312	INTRA HEATHER FM SS
4332	HEATHER FM
4350	VESTLAND GP
4698	DUNLIN GP
4698	AMUNDSEN FM
4774	NO GROUP DEFINED

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
513_1	pdf	1.97

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
OPEN HOLE		4825.0	8 1/2	4825.0	0.00	LOT





Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm ³]	Viskositet, slam [mPa.s]	Fløtegrense [Pa]	Type slam	Dato, måling
3927	1.96	47.0		water based	
4157	1.99	51.0		water based	
4324	2.04	66.0		water based	
4760	1.99	37.0		water based	
4825	2.03	43.0		water based	