



## Generell informasjon

Brønnbane navn	15/12-11 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	<a href="#">lenke til kart</a>
Hovedområde	NORTH SEA
Brønn navn	15/12-11
Seismisk lokalisering	SG-9501- INLINE 700 & CROSSLINE 1176
Utvinningstillatelse	<a href="#">116</a>
Boreoperatør	Saga Petroleum ASA
Boretillatelse	881-L
Boreinnretning	<a href="#">DEEPSEA BERGEN</a>
Boredager	40
Borestart	10.04.1997
Boreslutt	19.05.1997
Frigitt dato	19.05.1999
Publiseringssdato	31.10.2003
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	23.0
Vanndybde ved midlere havflate [m]	99.0
Totalt målt dybde (MD) [m RKB]	3597.0
Totalt vertikalt dybde (TVD) [m RKB]	3464.0
Maks inklinasjon [°]	26.7
Temperatur ved bunn av brønnbanen [°C]	137
Eldste penetrerte alder	LATE TRIASSIC
Eldste penetrerte formasjon	SKAGERRAK FM
Geodetisk datum	ED50
NS grader	58° 12' 9.78" N
ØV grader	1° 42' 39.38" E
NS UTM [m]	6452151.08
ØV UTM [m]	424234.79
UTM sone	31
NPID for brønnbanen	3074



## Brønnhistorie

### General

Exploration well 15/12-11 S was a joint operation of Production Licence 038 and 116. It was drilled in the northwestern area of block 15/12 and north of the Varg Field. Well 15/12-1 nearby to the northwest had shows in the Middle Jurassic Hugin Formation, but this was inconclusive with respect to moveable hydrocarbons. Block 15/12 is structurally located in the junction between the Juren High to the southeast, the Ling Depression to the east, the Sleipner Terrace towards the north and the Witch Ground Graben to the west. The prospect was defined as a multi-target structure, situated on a rotated fault block. Primary targets were Tertiary sandstones of the Heimdal Formation in a genuine closure, in addition to sandstones of the Middle Jurassic Hugin Formation. Secondary high-risk targets were sandstones of Eocene, Late Jurassic and Triassic age.

### Operations and results

Exploration well 15/12-11 S was spudded with the semi-submersible drilling installation "Deepsea Bergen" on 10 April 1997 and drilled to TD at 3597 m (3464 m TVD RKB) in sandstones of the Triassic Skagerrak Formation. The well was drilled with seawater and hi-vis pills down to 407 m and with KCl / polymer / Glycol (ANCO 208) mud from 407 m to TD.

Sandstone was encountered in all of the possible prospective levels except in the Late Jurassic. The two primary targets however, were more silt/shale dominated than expected. The upper part of the Heimdal Formation, penetrated at 2680 m had a lower reservoir quality than expected. These distal parts of the formation were relatively shaly/silty. More massive and porous sand of the Heimdal Formation was penetrated deeper, but too deep with respect to a Maureen Field oil spill. The lower reservoir, the Hugin Formation was penetrated at 3395 m, and was slightly thicker than prognosed. The only indications of hydrocarbons observed during drilling of 15/12-11 S were weak shows in the Hegre and Vestland Groups and a very weak cut fluorescence on the core from the Heimdal Formation. The gas values stayed constantly low during drilling through the reservoirs. Some gas peaks were measured while drilling the Hugin Formation, but these were associated closely to coal layers. Both the Heimdal and Hugin Formations were proved water bearing through wire line logging.

A total of two cores were cut. The first coring recovered only 0.5 m from the Heimdal Formation (2724 m to 2724.5 m). The second coring recovered 18.6 m from the Hugin Formation (3399.4 m to 3418.0 m).

Pressure tests were carried out in the Middle Jurassic Hugin and Sleipner formations and in the Triassic Skagerrak Formation. No fluid sample was taken.

The well was permanently abandoned as a dry well with weak shows on 19 May 1997.

### Testing

No drill stem test was performed.

## Borekaks i Sokkeldirektoratet



## Faktasider

### Brønnbane / Leting

Utskriftstidspunkt: 12.5.2024 - 22:43

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
410.00	2850.00

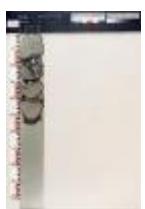
Borekaks tilgjengelig for prøvetaking?	YES
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### Borekjerner i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2724.0	2724.5	[m ]
2	3400.0	3418.6	[m ]

Total kjerneprøve lengde [m]	19.1
Kjerner tilgjengelig for prøvetaking?	YES

### Kjernebilder



2724-2725m



3400-3405m



3405-3410m



3410-3415m



3415-3418m

### Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
122	<a href="#">NORDLAND GP</a>
967	<a href="#">UTSIRA FM</a>
1130	<a href="#">NO FORMAL NAME</a>
1323	<a href="#">HORDALAND GP</a>
2270	<a href="#">GRID FM</a>
2309	<a href="#">NO FORMAL NAME</a>
2530	<a href="#">ROGALAND GP</a>
2530	<a href="#">BALDER FM</a>
2572	<a href="#">SELE FM</a>
2612	<a href="#">LISTA FM</a>
2680	<a href="#">HEIMDAL FM</a>



2813	<a href="#">MAUREEN FM</a>
2825	<a href="#">VÅLE FM</a>
2840	<a href="#">SHETLAND GP</a>
2840	<a href="#">EKOFISK FM</a>
2856	<a href="#">TOR FM</a>
2922	<a href="#">HOD FM</a>
3128	<a href="#">BLODØKS FM</a>
3146	<a href="#">SVARTE FM</a>
3221	<a href="#">CROMER KNOLL GP</a>
3221	<a href="#">RØDBY FM</a>
3234	<a href="#">ÅSGARD FM</a>
3241	<a href="#">VIKING GP</a>
3241	<a href="#">DRAUPNE FM</a>
3322	<a href="#">HEATHER FM</a>
3395	<a href="#">VESTLAND GP</a>
3395	<a href="#">HUGIN FM</a>
3419	<a href="#">SLEIPNER FM</a>
3544	<a href="#">NO GROUP DEFINED</a>
3544	<a href="#">SKAGERRAK FM</a>

## Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
<a href="#">3074</a>	pdf	0.58

## Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
<a href="#">3074_1</a>	pdf	1.89
<a href="#">3074_2</a>	pdf	1.78
<a href="#">3074_3</a>	pdf	1.86
<a href="#">3074_4</a>	pdf	1.77

## Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)





Dokument navn	Dokument format	Dokument størrelse [KB]
<a href="#">3074 15 12 11 S COMPLETION LOG</a>	pdf	3.16
<a href="#">3074 15 12 11 S COMPLETION REPORT</a>	pdf	34.47

## Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
ARI MSFL LDL CNL GR AMS	2879	3597
FMI GPIT DSM NGT AMS	2879	3597
FMI GPIT GR AMS	1386	2860
FMI NGT DSM AMS	1386	2866
FMS GR ACTS	2879	3597
HALS PEX AMS	1386	2866
MDT ACTS GR	3398	3570
MDT GR ACTS	3398	3570
MDT GR AMS	2274	2704
MSCT GR	2310	2695
MSCT GR	2310	2690
MSCT GR	2770	2810
MSCT GR	2818	2838
MSCT GR	2818	2842
MSCT GR	3229	3582
MWD - GR RES DIR	407	2886
MWD - GR RES DIR	2886	3597
VSP	1910	3578

## 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	169.0	36	170.0	0.00	LOT
SURF.COND.	18 5/8	394.0	26	400.0	1.69	LOT
INTERM.	13 3/8	1386.0	17 1/2	1390.0	1.85	LOT
INTERM.	9 5/8	2879.0	12 1/4	2880.0	1.85	LOT
OPEN HOLE		3597.0	8 1/2	3597.0	0.00	LOT

## Boreslam





Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Trytegrense [Pa]	Type slam	Dato, måling
407	1.04			SPUD MUD	
632	1.26	23.0		KCL MUD	
1395	1.32	19.0		KCL MUD	
1435	1.42	24.0		KCL MUD	
2726	1.45	31.0		KCL MUD	
2886	1.45	31.0		KCL MUD	
2888	1.48	40.0		KCL MUD	
3053	1.51	41.0		KCL MUD	
3091	1.50	36.0		KCL MUD	
3264	1.50	36.0		KCL MUD	
3317	1.50	33.0		KCL MUD	
3399	1.53	28.0		KCL MUD	
3400	1.50	27.0		KCL MUD	
3420	1.50	27.0		KCL MUD	
3597	1.50	27.0		KCL MUD	

## 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]
<a href="#">3074_Formation_pressure_(Formasjonstrykk)</a>	pdf	0.22

