



## Generell informasjon

Brønnbane navn	35/11-22 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	<a href="#">lenke til pressemelding</a>
Faktakart i nytt vindu	<a href="#">lenke til kart</a>
Hovedområde	NORTH SEA
Funn	<a href="#">35/11-22 S (Bergand)</a>
Brønn navn	35/11-22
Seismisk lokalisering	CGG17M01 Inline: 7306 Crossline: 27341
Utvinningstillatelse	<a href="#">248 C</a>
Boreoperatør	Equinor Energy AS
Boretillatelse	1739-L
Boreinnretning	<a href="#">DEEPSEA BERGEN</a>
Boredager	53
Borestart	12.12.2018
Boreslutt	02.02.2019
Plugget og forlatt dato	02.02.2019
Frigitt dato	02.02.2021
Publiseringsdato	30.04.2021
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	JURASSIC
1. nivå med hydrokarboner, formasjon.	HEATHER FM
Avstand, boredekk - midlere havflate [m]	23.0
Vanndybde ved midlere havflate [m]	355.6
Totalt målt dybde (MD) [m RKB]	3882.0
Totalt vertikalt dybde (TVD) [m RKB]	3866.0
Eldste penetrerte alder	JURASSIC
Eldste penetrerte formasjon	STATFJORD GP
Geodetisk datum	ED50
NS grader	61° 5' 2.27" N
ØV grader	3° 20' 56.92" E
NS UTM [m]	6772350.65



ØV UTM [m]	518834.79
UTM sone	31
NPDID for brønnbanen	8627

## Brønnhistorie

### General

Well 35/11-22 S was drilled to test the Bergand prospect in on the Lomre Terrace about 10 kilometres west of the Fram field in the North Sea. The primary exploration objective for well 35/11-22 S was to prove oil in Middle to Early Jurassic reservoir rocks of the Brent Group and the Cook Formation (Dunlin Group). The secondary exploration objective was to prove oil in the Statfjord Group in the Early Jurassic.

### Operations and results

Wildcat well 35/11-22 S was spudded with the semi-submersible installation Deepsea Bergen on 12 December 2018 and drilled to TD at 3882 m (3866 m TVD) in the Early Jurassic Statfjord Group. Drilling at 2503 m there was a gas influx, believed to come from a thin sandstone in the Shetland Group. The gain was killed by raising the mud weight from 1.25 to 1.32 sg. Otherwise operations proceeded without significant problems. The well was drilled with seawater and hi-vis pills down to 429 m, with KCl mud from 429 m to 1207 m, and with Innovert oil-based mud from 1207 m to TD.

A 30 m thick Oxfordian to Early Kimmeridgian age Intra Heather sandstone was encountered at 3030 m (3026 m TVD), directly underlying the Draupne Formation. Fluid sampling indicated oil all through this sandstone. No oil/water contact was established. In the primary exploration target, the well encountered the Brent Group with a thickness of about 190 metres, of which 90 metres of effective reservoir rocks with moderate reservoir quality. The thickness of the Cook Formation is about 70 metres, of which 50 metres of effective reservoir rocks with poor to moderate reservoir quality. Both primary targets are water-bearing. The secondary exploration target, in the Statfjord group, has a thickness of about 130 metres, of which 60 metres of water-bearing reservoir rocks with poor reservoir quality. A thin sandstone at 3264 to 3271 m in the Ness Formation had oil shows in the form of direct and cut fluorescence and residue fluorescence.

An open hole side-track 35/11-22 ST2 was drilled to acquire a bypass core over the intra-Heather sandstone interval. The core was cut from 3027.37 to 3077.37 m. No logs were acquired in this side-track. MDT fluid samples were taken in the main bore at 3042 m (oil), 3052 m (?oil), 3058 m (oil), and 3311.5 m (water).

The well was permanently abandoned on 2 February as an oil discovery.

### Testing

No drill stem test was performed.

## Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
720.00	3882.00

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

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3026.0	3074.1	[m ]

Total kjerneprøve lengde [m]	48.1
Kjerner tilgjengelig for prøvetaking?	YES

### Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
379	<a href="#">NORDLAND GP</a>
776	<a href="#">UTSIRA FM</a>
858	<a href="#">HORDALAND GP</a>
1723	<a href="#">ROGALAND GP</a>
1723	<a href="#">BALDER FM</a>
1779	<a href="#">SELE FM</a>
1795	<a href="#">LISTA FM</a>
1884	<a href="#">VÅLE FM</a>
2069	<a href="#">SHETLAND GP</a>
2069	<a href="#">JORSALFARE FM</a>
2223	<a href="#">KYRRE FM</a>
2639	<a href="#">TRYGGVASON FM</a>
2656	<a href="#">BLODØKS FM</a>
2663	<a href="#">SVARTE FM</a>
2704	<a href="#">CROMER KNOLL GP</a>
2704	<a href="#">RØDBY FM</a>
2749	<a href="#">SOLA FM</a>
2756	<a href="#">ÅSGARD FM</a>
2783	<a href="#">VIKING GP</a>
2783	<a href="#">DRAUPNE FM</a>
3030	<a href="#">HEATHER FM</a>
3030	<a href="#">INTRA HEATHER FM SS</a>
3060	<a href="#">HEATHER FM</a>
3250	<a href="#">BRENT GP</a>
3250	<a href="#">TARBERT FM</a>



3259	<a href="#">NESS FM</a>
3335	<a href="#">ETIVE FM</a>
3353	<a href="#">RANNOCH FM</a>
3377	<a href="#">OSEBERG FM</a>
3417	<a href="#">DUNLIN GP</a>
3417	<a href="#">DRAKE FM</a>
3495	<a href="#">COOK FM</a>
3565	<a href="#">AMUNDSEN FM</a>
3657	<a href="#">JOHANSEN FM</a>
3676	<a href="#">AMUNDSEN FM</a>
3738	<a href="#">STATFJORD GP</a>

### Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
AIT PEX XPT	2542	3884
MDT	3042	3311
MSIP	1800	3542
MSIP NGI	1810	3884
MWD LWD - GR RES	429	3882
VSP	1208	3475
XLR	3156	3836

### Foringsrør og formasjonsstyrketester

Type utforing	Utforing diam. [tommer]	Utforing dybde [m]	Brønnbane diam. [tommer]	Brønnbane dyp [m]	LOT/FIT slam eqv. [g/cm <sup>3</sup> ]	Type formasjonstest
CONDUCTOR	30	429.1	36	429.1	0.00	
INTERM.	13 3/8	1198.8	17 1/2	1207.0	1.52	FIT
INTERM.	9 5/8	2542.0	12 1/4	2553.0	1.70	FIT
OPEN HOLE		3882.0	8 1/2	3882.0	0.00	

### Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm <sup>3</sup> ]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
429	1.35	12.0		KCl/Polymer/GEM	
429	1.39	14.0		KCl/Polymer/GEM	



# Faktasider

## Brønnbane / Leting

Utskriftstidspunkt: 9.5.2024 - 04:53

877	1.35	16.0	KCl/Polymer/GEM
877	1.36	18.0	KCl/Polymer/GEM
890	1.35	18.0	KCl/Polymer/GEM
1070	1.34	21.0	Innovert
1207	1.23	13.0	Innovert
1207	1.35	23.0	KCl/Polymer/GEM
1210	1.24	14.0	Innovert
1220	1.34	21.0	Innovert
1220	1.35	20.0	Innovert
1350	1.34	15.0	Innovert
1606	1.25	15.0	Innovert
2190	1.25	15.0	Innovert
2281	1.34	15.0	Innovert
2281	1.49	30.0	Innovert
2503	1.25	16.0	Innovert
2503	1.30	18.0	Innovert
2514	1.32	18.0	Innovert
2546	1.49	27.0	Innovert
2553	1.52	17.0	Innovert
2553	1.33	17.0	Innovert
2556	1.52	17.0	Innovert
2690	1.49	21.0	Innovert
2697	1.52	18.0	Innovert
2729	1.48	26.0	Innovert
2824	1.52	18.0	Innovert
2965	1.48	23.0	Innovert
3026	1.48	27.0	Innovert
3090	1.52	19.0	Innovert
3882	1.49	28.0	Innovert
3882	1.52	23.0	Innovert