



Generell informasjon

Brønnbane navn	35/9-14
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Funn	35/9-14
Brønn navn	35/9-14
Seismisk lokalisering	HORDA (CGG 14003) Inline 8659. Xline 30374
Utvinningstillatelse	682
Boreoperatør	Spirit Energy Norge AS
Boretillatelse	1688-L
Boreinnretning	SONGA ENABLER
Boredager	42
Borestart	20.01.2018
Boreslutt	02.03.2018
Plugget dato	02.03.2018
Frigitt dato	02.03.2020
Publiseringsdato	02.03.2020
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	INTRA HEATHER FM SS
Avstand, boredekk - midlere havflate [m]	32.0
Vanndybde ved midlere havflate [m]	365.0
Totalt målt dybde (MD) [m RKB]	3657.0
Totalt vertikalt dybde (TVD) [m RKB]	3657.0
Maks inklinasjon [°]	3.8
Temperatur ved bunn av brønnbanen [°C]	119
Eldste penetrerte alder	MIDDLE JURASSIC
Eldste penetrerte formasjon	HEATHER FM



Geodetisk datum	ED50
NS grader	61° 25' 19.87" N
ØV grader	3° 49' 41.93" E
NS UTM [m]	6810256.82
ØV UTM [m]	544205.62
UTM sone	31
NPDID for brønnbanen	8358

Brønnhistorie

General

Well 35/9-14 is the replacement well for 35/9-13, which was abandoned due to shallow water flow. It was drilled about 35 m to the south-east of 35/9-13, on the Tethys prospect on the Måløy slope in the northern North Sea. The primary objective was to test the hydrocarbon potential in Oxfordian age Intra-Heather Formation sandstone.

Operations and results

Wildcat well 35/9-14 was spudded with the semi-submersible installation Songa Enabler on 20 January 2018 and drilled to TD at 3657 m in the Late Jurassic Heather Formation. The 20" casing was set shallow at 572 m, above the sand that was interpreted as source of the shallow water flow in 35/9-13. Further drilling commenced with BOP in place. No shallow waterflow issues was recognized during drilling of the actual section. At TD in the 17 ½" section a fish in the hole caused 8 days NPT. The 35/9-14 well was drilled to TD at 3657 m in the Middle Jurassic Heather Formation. The well was drilled with seawater and hi-vis pills down to 578 m, with KCL/GEM/Polymer mud from 578 m to 1556 m, and with Innovert oil-based mud from 1556 m to TD.

A 20 m thick Intra Heather Formation sandstone was encountered at 3493 m. The sandstone had poor reservoir quality, but contained oil, as confirmed by sampling. Oil shows were recorded in the oil-bearing reservoir, otherwise no oil shows were described in the well.

No core was cut. MDT oil samples were taken at 3496.5 m. The samples were contaminated with 11.9 to 13.3 % mud filtrate.

The well was permanently abandoned on 29 March 2018 as an oil discovery.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
590.00	3657.00

Borekaks tilgjengelig for prøvetaking?	YES
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Oljeprøver i Sokkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
MDT		0.00	0.00			YES
MDT		3496.50	0.00	OIL	27.02.2018 - 22:15	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
396	NORDLAND GP
591	UTSIRA FM
638	HORDALAND GP
660	NO FORMAL NAME
841	HORDALAND GP
872	ROGALAND GP
872	BALDER FM
943	SELE FM
959	LISTA FM
1298	VÅLE FM
1382	SHETLAND GP
1382	JORSALFARE FM
1518	KYRRE FM
2502	TRYGGVASON FM
2737	BLODØKS FM
2774	SVARTE FM
3189	CROMER KNOLL GP
3189	RØDBY FM
3376	ÅSGARD FM
3387	VIKING GP
3387	DRAUPNE FM
3406	HEATHER FM
3493	INTRA HEATHER FM SS
3512	HEATHER FM

Logger



Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
LWD - TELE ARC ECO SON	397	3656
SATURN MDT IFA HNGS	3222	3651
USIT CBL VDL GR	365	561
VSI4	418	3648
XL ROCK	3373	3600

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	461.9	36	462.0	0.00	
SURF.COND.	20	571.8	26	578.0	0.00	
INTERM.	13 3/8	1548.0	17 1/2	1556.0	0.00	
		1549.0		0.0	1.50	FIT
LINER	9 5/8	3224.0	12 1/2	3224.0	1.48	FIT
OPEN HOLE		3657.0	8 1/2	3657.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
460	1.39	30.0		KCl/Polymer	
581	1.18	11.0		KCl/Polymer/GEM	
1244	1.18	12.0		KCl/Polymer/GEM	
1475	1.22	17.0		Innovert	
1556	1.18	11.0		KCl/Polymer/GEM	
1678	1.20	16.0		Innovert	
2437	1.27	20.0		Innovert	
2545	1.20	15.0		Innovert	
3005	1.23	19.0		Innovert	
3095	1.27	20.0		Innovert	
3102	1.24	20.0		Innovert	
3230	1.27	20.0		Innovert	
3657	1.27	21.0		Innovert	