



Generell informasjon

Brønnbane navn	35/11-20 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Funn	35/11-20 S (Orion)
Brønn navn	35/11-20
Seismisk lokalisering	3D survey WIN14M05 Inline 22573 X-line 11942
Utvinningstillatelse	248 F
Boreoperatør	Wintershall Norge AS
Boretillatelse	1625-L
Boreinnretning	BORGLAND DOLPHIN
Boredager	32
Borestart	19.05.2016
Boreslutt	19.06.2016
Frigitt dato	19.06.2018
Publiseringsdato	19.06.2018
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	LATE JURASSIC
1. nivå med hydrokarboner, formasjon.	INTRA HEATHER FM SS
Avstand, boredekk - midlere havflate [m]	31.0
Vanndybde ved midlere havflate [m]	373.0
Totalt målt dybde (MD) [m RKB]	3584.0
Totalt vertikalt dybde (TVD) [m RKB]	3468.0
Maks inklinasjon [°]	32.5
Eldste penetrerte alder	MIDDLE JURASSIC
Eldste penetrerte formasjon	HEATHER FM
Geodetisk datum	ED50
NS grader	61° 13' 20.29" N
ØV grader	3° 26' 25.57" E



NS UTM [m]	6787789.95
ØV UTM [m]	523655.76
UTM sone	31
NPDID for brønnbanen	7978

Brønnhistorie

Wellbore history

General

Well 35/11-20 S is the replacement well for the junk well 35/11-19 S. It was drilled to test the Late Jurassic Antares and Orion prospects on the Marflo Spur in the North. The primary objective was to test the Antares prospect, a Kimmeridgian age Intra Heather Formation sandstone. Secondary objective was to test the Orion prospect, believed to consist of two Oxfordian age Intra-Heather Formation sandstones.

Operations and results

Wildcat well 35/11-20 S was spudded with the semi-submersible installation Borgland Dolphin on 19 May 2016 and drilled to TD at 3584 m (3468 m TVD) in the Late Jurassic Heather Formation. No significant problem was encountered in the operations. The well was drilled with Seawater and hi-vis pills down to 501 m, with KCl/polymer mud from 501 m to 1098 m, with Performadril water based mud from 1098 m to 1795.5 m, and with Innovert oil based mud from 1795.5 m to TD.

BCU/top Draupne Formation came in at 3032 m with at 48 m TVD thickness. Top Heather Formation came in at 3087 m with a 177 m TVD thickness. Based on TOC and Rock-Eval analyses of cuttings both Draupne and Heather are excellent oil-prone source rocks. The prognosed Kimmeridgian sandstone was not present, but an Oxfordian sandstone was penetrated from 3362 to 3432 m. The top 8 m of this sandstone was oil bearing with an OWC at 3370 m (3272 m TVD) based on logs. Residual hydrocarbons are interpreted throughout the Oxfordian sandstone below the OWC based on CPI analysis and shows on sidewall cores.

No cores were cut. MDT fluid samples were taken at 3366 m (oil), 3369.5 m (oil) and 3418.5 m (water and trace oil).

The well was plugged back for sidetracking on 19 June 2016. It is classified as an oil discovery.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1100.00	3584.00



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		4135.70	0.00	OIL		YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
404	NORDLAND GP
724	UTSIRA FM
921	HORDALAND GP
1527	FRIGG FM
1625	ROGALAND GP
1625	BALDER FM
1694	SELE FM
1720	LISTA FM
1943	SHETLAND GP
1943	JORSALFARE FM
2138	KYRRE FM
2837	TRYGGVASON FM
2898	SVARTE FM
2914	CROMER KNOLL GP
2914	RØDBY FM
2928	SOLA FM
2935	ÅSGARD FM
3032	VIKING GP
3032	DRAUPNE FM
3087	HEATHER FM
3362	SOGNEFJORD FM
3432	HEATHER FM

Logger



Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
MDT NMR	3320	3480
MWD - GR RES DEN NEU SON DIR PWD	1795	3102
MWD - GR RES DEN NEU SON PS DIR	3102	3584
MWD - GR RES DIR PWD	501	1098
MWD - GR RES SON DIR PWD	1098	1795
MWD- DIR	403	501
SWC	3155	3577
VSP	1564	3584

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	494.0	36	501.0	0.00	
SURF.COND.	20	1091.8	26	1098.0	0.00	
		1101.0		1101.0	1.77	FIT
INTERM.	13 3/8	1789.3	17 1/2	1795.5	0.00	
		1798.5		1798.5	1.71	LOT
INTERM.	9 5/8	3094.9	12 1/4	3102.0	0.00	
		3105.0		3105.0	1.78	LOT
OPEN HOLE		3584.0	8 1/2	3584.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	flytegrense [Pa]	Type slam	Dato, måling
313	1.44	19.0		INNOVERT OBM	
488	1.64	16.0		Kill / Displacement Mud	
501	1.39	16.0		Kill / Displacement Mud	
1098	1.29	22.0		PERFORMADRIL WBM	
1098	1.39	25.0		KCI Polymer GEM	
1101	1.29	20.0		PERFORMADRIL WBM	
1795	1.39	21.0		INNOVERT OBM	



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 10.5.2024 - 10:51

1795	1.29	23.0		PERFORMADRIL WBM	
2424	1.39	20.0		INNOVERT OBM	
3102	1.42	22.0		INNOVERT OBM	
3270	1.44	26.0		INNOVERT OBM	
3584	1.44	24.0		INNOVERT OBM	