



Generell informasjon

Brønnbane navn	25/2-18 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	HUGIN
Funn	25/2-18 S (Langfjellet)
Brønn navn	25/2-18
Seismisk lokalisering	DN13303-04010. SP 1295 / DN13303-02005. SP 1214
Utvinningstillatelse	442
Boreoperatør	Det norske oljeselskap ASA
Boretillatelse	1634-L
Boreinnretning	MAERSK INTERCEPTOR
Boredager	36
Borestart	06.08.2016
Boreslutt	11.09.2016
Frigitt dato	11.09.2018
Publiseringsdato	11.09.2018
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	HUGIN FM
Avstand, boredekk - midlere havflate [m]	55.0
Vanndybde ved midlere havflate [m]	121.0
Totalt målt dybde (MD) [m RKB]	3887.0
Totalt vertikalt dybde (TVD) [m RKB]	3877.0
Maks inklinasjon [°]	8.8
Temperatur ved bunn av brønnbanen [°C]	129
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	DRAKE FM



Geodetisk datum	ED50
NS grader	59° 49' 30.11" N
ØV grader	2° 37' 54.1" E
NS UTM [m]	6632137.57
ØV UTM [m]	479347.43
UTM sone	31
NPDID for brønnbanen	8023

Brønnhistorie

General

Well 25/2-18 S was drilled to test the Langfjellet prospect on the Bjørgvin Arch, four kilometers south of the 25/2-10 S (Frigg Gamma Delta) oil/gas discovery and eight kilometers north of the shutdown Frøy field in the North Sea. The objective of well 25/2-18 S was to prove petroleum in Middle Jurassic reservoir rocks belonging to the Vestland Group (the Hugin and Sleipner formations).

Operations and results

Wildcat well 25/2-18 S was spudded with the jack-up installation Mærsk Interceptor on 6 August 2016 and drilled to TD at 3820 m (3812.7 m TVD). A technical sidetrack, 25/2-18 ST2, was kicked off from 25/2-18 S at 3345 m. The sidetrack was drilled in order to perform data acquisition in accordance with NPD regulations. The sidetrack was drilled to final TD at 3887 m in the Early Jurassic Drake Formation. No significant problem was encountered in the operations. The well was drilled with seawater and hi-vis sweeps down to 450 m and with Versatec oil based mud from 450 m from 450 m to TD.

Top of target reservoir, Hugin Formation, was penetrated at 3431.5 m (3424.2 m TVD) in 25/2-18 S, and at 3433 m (3424.9 m TVD) in the 25/2-18 ST2 sidetrack. In the sidetrack, the formation had a gross oil column of 125 m with a down-to contact at 3563 m (3554 m TVD). Net-to-gross of the Hugin Formation is 0.46 in well 25/2-18 S and 0.69 in the sidetrack. The difference in net-gross is due to a higher degree of cementation in well 25/2-18 S than in the sidetrack. The two boreholes penetrate the Hugin Formation ca 15 m away from each other.

The OBM produced a show of weak, dull, light yellow, direct fluorescence and fair, cut fluorescent. Due to this, and overbalanced drilling and structure destroying effects of PDC bits, shows on cuttings are unreliable. The sidetrack had good shows on conventional cores over most of the interval from 3431 to 3540 m in the oil-bearing reservoir.

In the sidetrack, two cores were cut in the interval 3427 m to 3553 m, and seven wireline logging runs were performed. Fluid samples were taken in the sidetrack at 2123.89 m, 3449.7 m, 3482.7 m, 3524.8 m and 3544.4 m.

The well was plugged back for geological sidetracks on 11 September 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]
460.00	3820.00
Borekaks tilgjengelig for prøvetaking?	YES

Borekjerter i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3427.0	3482.0	[m]
2	3482.4	3555.1	[m]
Total kjerneprøve lengde [m]		127.7	
Kjerter tilgjengelig for prøvetaking?		YES	

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
176	NORDLAND GP
506	UTSIRA FM
642	HORDALAND GP
642	SKADE FM
1446	UNDEFINED GP
1542	HORDALAND GP
2118	FRIGG FM
2128	ROGALAND GP
2128	BALDER FM
2204	SELE FM
2240	HERMOD FM
2326	LISTA FM
2542	VÅLE FM
2616	SHETLAND GP
2616	EKOFISK FM
2653	HARDRÅDE FM
2883	KYRRE FM
3077	TRYGGVASON FM



3194	BLODØKS FM
3201	SVARTE FM
3225	CROMER KNOLL GP
3225	RØDBY FM
3265	ÅSGARD FM
3298	VIKING GP
3298	DRAUPNE FM
3379	HEATHER FM
3432	VESTLAND GP
3432	HUGIN FM
3557	SLEIPNER FM
3783	DUNLIN GP
3783	DRAKE FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
LWD - DI GR PWD	222	450
LWD - DI GR RES PWD	450	1541
LWD - DI GR RES PWD NEU DEN SON	1541	3820
LWD - DI PWD GR RES NEU DEN CAL	176	450
RES SON PWD DEN NEU SPECGR	442	1525
T2 - MDT MINIDST	2117	3573
T2 - MDT MINIDST	3482	3482
T2 - PRP DIEL LITHO MAG RES	2065	3727
T2 - RES SON PRESS DEN NEU SP GR	1464	1905
T2 - RES ZAIT GPIT PPC	2065	3872
T2 - SON DEN NEU SP GR	1780	3886
T2 - ZOVSP	451	3668
T2 LWD - DI GR RES PWD	3345	3427
T2 LWD - DI GR RES PWD	3427	3887

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	222.0	36	214.0	0.00	



SURF.COND.	20	444.5	26	450.0	1.32	LOT
PILOT HOLE		450.0	9 7/8	450.0	0.00	
INTERM.	13 3/8	1533.5	16	1541.0	1.58	FIT
OPEN HOLE		3887.0	8 1/2	3887.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
665	1.17	22.0		Versatec OBM	
1540	1.19	21.0		Versatec OBM	
2069	1.24	21.0		Versatec OBM	
3385	1.29	21.0		Versatec OBM	
3887	1.29	22.0		Versatec OBM	
3887	1.30	27.0		Versatec OBM	