Generell informasjon

Brønnbane navn	3/7-11 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	3/7-11
Seismisk lokalisering	MC3D-CGR 2013RM Inline: 45600. X-line: 106425
Utvinningstillatelse	539
Boreoperatør	MOL Norge AS
Boretillatelse	1756-L
Boreinnretning	ROWAN VIKING
Boredager	41
Borestart	17.04.2019
Boreslutt	27.05.2019
Plugget og forlatt dato	27.05.2019
Frigitt dato	16.01.2020
Publiseringsdato	16.01.2020
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	53.0
Vanndybde ved midlere havflate [m]	66.0
Totalt målt dybde (MD) [m RKB]	3893.0
Totalt vertikalt dybde (TVD) [m RKB]	3723.0
Eldste penetrerte alder	PERMIAN
Eldste penetrerte formasjon	ROTLIEGEND GP
Geodetisk datum	ED50
NS grader	56° 21' 48.47'' N
ØV grader	4° 8' 44.77'' E
NS UTM [m]	6247261.30
ØV UTM [m]	570788.70
UTM sone	31
NPDID for brønnbanen	8705

Brønnhistorie

General

Well 3/7-11 S was drilled to test the Otta and Vinstra prospects on the eastern flank of the Mandal High in the North Sea. The primary and secondary objectives were to prove petroleum in the Permian Vinstra aeolian reservoir in the Rotliegend Group, and the Middle Jurassic Otta sandstone reservoir (Bryne Formation), respectively.

Operations and results

Wildcat well 3/7-11 S was spudded with the jack-up installation Rowan Viking on 17 April 2019 and drilled to TD at 3893 m in the Permian Rotliegend Group. A 9 7/8" pilot hole was drilled to 840 m and no shallow gas or over-pressured water was observed. Operations proceeded without significant problems. The well was drilled with seawater and hi-vis pills down to 834 m and with EMS-4600 oil-based mud from 834 m to TD.

Top of the Otta prospect was found at 3585 m (3453.20 m TVD), and top of Vinstra at 3795 m (3637.10 m TVD). In the Otta target only minor sandstone stringers were present with low amounts of immoveable hydrocarbons as determined petrophysically, and minor to moderate HC odour on sidewall cores at 3606 to 3610 m. The Vinstra target in Rotliegend Group comprised siltstone and claystone without any hydrocarbon indication.

No cores were cut. No fluid sample was taken.

The well was permanently abandoned on 27 May 2019 as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
150.00	3895.00

Borekaks tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
119	NORDLAND GP
119	UNDIFFERENTIATED
1420	HORDALAND GP
1420	UNDIFFERENTIATED
2760	ROGALAND GP

2760	BALDER FM
2775	SELE FM
2792	LISTA FM
2820	VÅLE FM
2845	SHETLAND GP
2845	EKOFISK FM
2971	TOR FM
3264	HOD FM
3554	VESTLAND GP
3554	BRYNE FM
3611	HEGRE GP
3611	SKAGERRAK FM
3706	SMITH BANK FM
3741	ZECHSTEIN GP
3741	NO FORMAL NAME
3785	KUPFERSCHIEFER FM
3790	ROTLIEGEND GP
3790	NO FORMAL NAME
3814	NO FORMAL NAME

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CMR MDT LD SAT IFA MS GR	3568	3695
LWD - DIR PWD GR DEN NEU RES SON	1979	3893
LWD - DIR PWD GR RES	184	834
LWD - DIR PWD GR RES SON	119	1979
LWD - SEIS VIS	1979	3526
XLR GR	3556	3580
ZAIT PPC NGI GR	3519	3742

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	184.0	36	184.0	0.00	
SURF.COND.	20	824.2	26	834.0	1.67	LOT
PILOT HOLE		840.0	9 7/8	840.0	0.00	

INTERM.	13 3/8	1973.0	17 1/2	1993.0	1.97	LOT
INTERM.	9 7/8	3519.4	12 1/4	3526.0	2.26	FIT
OPEN HOLE		3896.0	8 1/2	3896.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
53	1.03			Water	
834	1.30			Water	
840	1.14			Water	
840	1.03			Water	
875	1.30			Oil	
1481	1.35			Oil	
1979	1.55			Oil	
2224	1.55			Oil	
2862	1.62			Oil	
3191	1.64			Oil	
3191	1.55			Oil	
3285	1.64			Oil	
3893	1.65			Oil	

Tynnslip i Sokkeldirektoratet

Dybde	Enhet
3556.20	[m]
3574.00	[m]
3583.00	[m]
3586.00	[m]
3590.70	[m]
3591.80	[m]
3592.80	[m]
3606.20	[m]
3610.00	[m]
3611.50	[m]
3623.90	[m]
3625.10	[m]
3632.50	[m]
3638.40	[m]

3650.00	[m]
3680.00	[m]
3796.00	[m]
3799.00	[m]
3805.00	[m]
3811.00	[m]
3817.00	[m]
3823.00	[m]
3841.00	[m]
3853.00	[m]
3859.00	[m]
3865.00	[m]
3871.00	[m]
3880.00	[m]
3892.00	[m]