



Generell informasjon





Brønnbane navn	2/11-12 S
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	HOD
Funn	2/11-2 Hod
Brønn navn	2/11-12
Seismisk lokalisering	ABPN217 random line
Utvinningstillatelse	033
Boreoperatør	Aker BP ASA
Boretillatelse	1744-L
Boreinnretning	MAERSK INTERCEPTOR
Boredager	34
Borestart	10.01.2019
Boreslutt	12.02.2019
Plugget dato	12.02.2019
Frigitt dato	12.02.2021
Publiseringsdato	30.04.2021
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	55.0
Vanndybde ved midlere havflate [m]	70.5
Totalt målt dybde (MD) [m RKB]	2956.0
Totalt vertikalt dybde (TVD) [m RKB]	2939.0
Eldste penetrerte alder	LATE CRETACEOUS
Eldste penetrerte formasjon	HIDRA FM
Geodetisk datum	ED50
NS grader	56° 10' 10.93" N
ØV grader	3° 26' 12.54" E
NS UTM [m]	6225190.98
ØV UTM [m]	527125.04
UTM sone	31
NPDID for brønnbanen	8639



Brønnhistorie

General

Well 2/11-12 S "West Hod Appraisal" was drilled as part of the Hod Field Development Project (HFD). The well is located on the Skrubbe Fault between the Lindesnes Ridge and the Ål Basin in the North Sea. The primary objective for appraisal well 2/11-12 S was to delineate the western part of the Hod field. The secondary objective was to examine reservoir rocks (diatomites) in the Miocene in the Hordaland group (Lark Formation).

Operations and results

A 9 7/8" Pilot hole was drilled to 540 m. No shallow gas or water flow was observed.

Appraisal well 2/11-12 S was spudded with the jack-up installation Mærsk Interceptor on 10 January 2019 and drilled to TD at 2956 m (2939 m TVD) m in the Late Cretaceous Hydra Formation. An abrupt mud loss at 2731 m MD in the lower Balder Formation was observed, with initial mud loss rate at 23 m³/hr. This mud loss was observed to rapidly diminish by 2750 m MD upon further drilling into the underlying Sele Formation. A fault is possible in this interval. The well was drilled with seawater and hi-vis pills down to 541 m and with oil-based mud from 540 m to TD.

In the primary target in the Hod formation, a limestone interval of about 120 meters with poor reservoir properties was encountered. There were traces of oil in the limestone rocks. Good shows were recorded in the interval 2841 to 2859 (stain, direct fluorescence, cut fluorescence, and ring fluorescence), and in the intervals 2907 to 2916 m and 2937 to 2943 m (no stain, direct fluorescence, cut fluorescence, no residual ring).

In the secondary target in the Hordaland group, 200 metres of reservoir rocks with poor reservoir properties and traces of oil were encountered. Good shows were recorded in the intervals 1554 to 1560 m and 1617 to 1647 m (strong petroleum smell, no stain, direct fluorescence, cut fluorescence and ring fluorescence).

The Miocene target was cored in 5 cores from 1485 m to 1674.3 m. The Chalk target was not cored. MDT fluid samples were taken in the Miocene at 1538 m (oil), and in the chalk at 2838 m (water with 5 cm³ oil), 2840.6 m (oil with 10 cm³ water) and 2846.8 m (oil with 10 cm³ water). Analyses of the samples from the chalk showed mud contamination between 40% and 75% in the oil fractions.

The well was permanently abandoned on 12 February 2019 as a well with shows.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
550.00	2955.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	1485.0	1515.7	[m]
2	1518.5	1551.5	[m]
3	1551.6	1609.2	[m]
4	1610.5	1647.2	[m]
5	1653.5	1674.0	[m]

Total kjerneprøve lengde [m]	178.3
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
126	NORDLAND GP
126	UNDIFFERENTIATED
1508	HORDALAND GP
1508	NO FORMAL NAME
2062	NO FORMAL NAME
2721	ROGALAND GP
2721	BALDER FM
2735	SELE FM
2777	LISTA FM
2830	VÅLE FM
2837	EKOFISK FM
2842	SHETLAND GP
2842	HOD FM
2945	BLODØKS FM
2946	HIDRA FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
FTNG	1527	1683
FTNG	1538	2846
HNGS PEX MSIP QG ZAIT	1426	1773



LWD - ECD RES GR	1435	1485
LWD - GR ECD RES NØ DEN SON	1485	2955
LWD - GR ECD RES SON	541	1435
LWD - GR RES ECD SON	125	540
MDT MF	1435	1774
UIB GPIT PPC GR	1490	2945
XLR SWC	2723	2943
XPT ADT MRX NEXT	1426	1773
XPT ADT NEXT MRX	1426	2996
ZAIT NGI MSIP PEX HNGS	1426	2996

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	20	535.8	26	541.0	1.63	LOT
PILOT HOLE		540.0	9 7/8	540.0	0.00	
INTERM.	13 3/8	1426.4	16	1435.0	1.95	LOT
OPEN HOLE		2955.7	8 1/2	2955.7	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
1	1.05			Bentonite	
1	1.02			Sea water in well.	
1	1.31	20.0		Glydril WBM/ Displacementmud.	
542	1.39	29.0		RheGuard Prime	
1047	1.41	31.0		RheGuard Prime	
1282	1.51	34.0		RheGuard Prime	
1366	1.73	43.0		RheGuard Prime	
1435	1.57	36.0		RheGuard Prime	
1437	1.69	35.0		RheGuard Prime	
1485	1.73	37.0		RheGuard Prime	
2455	1.75	39.0		RheGuard Prime	
2630	1.73	36.0		RheGuard Prime	
2768	1.75	37.0		RheGuard Prime	
2879	1.73	38.0		RheGuard Prime	



2955	1.75	38.0		RheGuard Prime	
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