Generell informasjon

Brønnbane navn	25/10-16 S
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	HANZ
Funn	25/10-8 Hanz
Brønn navn	25/10-16
Seismisk lokalisering	DN1302M01. Inline 2594. crossline 1779
Utvinningstillatelse	028 B
Boreoperatør	Aker BP ASA
Boretillatelse	1706-L
Boreinnretning	MAERSK INTREPID
Boredager	31
Borestart	30.06.2018
Boreslutt	30.07.2018
Plugget dato	30.07.2018
Frigitt dato	30.07.2020
Publiseringsdato	30.07.2020
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	OIL/GAS
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	INTRA DRAUPNE FM SS
Avstand, boredekk - midlere havflate [m]	55.0
Vanndybde ved midlere havflate [m]	116.5
Totalt målt dybde (MD) [m RKB]	2765.0
Totalt vertikalt dybde (TVD) [m RKB]	2698.0
Maks inklinasjon [°]	17.3
Temperatur ved bunn av brønnbanen [°C]	106
Eldste penetrerte alder	LATE TRIASSIC
Eldste penetrerte formasjon	HEGRE GP

Geodetisk datum	ED50
NS grader	59° 2' 13.13'' N
ØV grader	2° 13' 41.38'' E
NS UTM [m]	6544576.65
ØV UTM [m]	455702.05
UTM sone	31
NPDID for brønnbanen	8490

Brønnhistorie

General

Well 25/10-16 S was drilled on the 25/10-8 Hanz discovery on the Gudrun Terrace in the North Sea. The primary objective was to test the hydrocarbon potential in Intra-Draupne Formation sandstones in the northern part of the Hanz structure.

Operations and results

Appraisal well 25/10-16 S was spudded with the jack-up installation Mærsk Intrepid on 30 June 2018 and drilled to TD at 2765 m (2698 m TVD) m in the Late Triassic Hegre Group. Operations proceeded without significant problems. The well was drilled with seawater and hi-vis pills down to 560 m and with EMS-4600 oil-based mud from 560 m to TD.

The Draupne Formation was encountered at 2456.1 m (2388.8 m TVD). It contained abundant sandstones varying in thickness from 0.5 to 8 m. From Petrophysical analysis there was 20 m net oil-bearing Intra-Draupne sandstones with excellent reservoir quality. A gas-oil contact was proven at 2483.2 m (2416 m TVD). There is oil at least down-to 2512.2 m (2445 m TVD). No oil-water contact was proven. The formation pressure was measured by wireline XPT. The measured formation pressures showed a depletion of ~1 -2 bar in the Intra Draupne sandstones compared to the 25/10-8 discovery well. The Hugin Formation was comprised of sandstone, also with good reservoir properties, but was found to be water-bearing in the well position.

On the cores there were strong oil shows in the oil-leg of the Intra-Draupne sandstones, but there were no oil shows above the oil-based mud on cuttings anywhere else in the well.

Two cores were cut from 2460.5 to 2550.7 m with 100.4% total recovery. MDT fluid samples were taken at 2468 m (gas), 2478.9 m (gas), 2485.5 m (oil), 2490.3 m (oil), 2508.1 m (oil), 2511.5 m (oil), 2531.7 m (water).

The well was permanently abandoned on 30 July 2018 as an oil and gas appraisal well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
570.00	2765.00

Borekaks tilgjengelig for prøvetaking?	YES

Borekjerner i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2460.5	2490.8	[m]
2	2490.8	2551.0	[m]

Total kjerneprøve lengde [m]	90.5
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
172	NORDLAND GP
695	UTSIRA FM
889	HORDALAND GP
889	SKADE FM
1181	HORDALAND GP
1602	GRID FM
1802	HORDALAND GP
2025	ROGALAND GP
2025	BALDER FM
2066	SELE FM
2135	LISTA FM
2175	HEIMDAL FM
2242	LISTA FM
2287	VÅLE FM
2324	SHETLAND GP
2324	EKOFISK FM
2370	HOD FM
2456	VIKING GP
2456	DRAUPNE FM
2478	NO FORMAL NAME
2580	DRAUPNE FM
2638	HEATHER FM

2641	VESTLAND GP
2641	HUGIN FM
2655	HEGRE GP
2655	SKAGERRAK FM
2701	NO FORMAL NAME
2706	SKAGERRAK FM
2712	NO FORMAL NAME

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
LWD - GR RES NEU DEN FPWD	2673	4405

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	22	208.5	26	219.0	0.00	
INTERM.	13 3/8	552.7	17 1/2	560.0	1.59	LOT
PILOT HOLE		561.0	9 7/8	561.0	0.00	
INTERM.	9 5/8	1917.8	12 1/4	1925.0	1.70	LOT
OPEN HOLE		2765.0	8 1/2	2765.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
552	1.29	26.0		Rheguard Prime	
1185	1.21	27.0		EMS-4600	
1925	1.26	32.0		EMS-4600	
2460	1.29	25.0		EMS-4600	
2765	1.29	26.0		EMS-4600	
2765	1.30	28.0		EMS-4600	