



Generell informasjon

Brønnbane navn	6608/10-18
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Felt	VERDANDE
Funn	6608/10-17 S Verdande
Brønn navn	6608/10-18
Seismisk lokalisering	Seismic 3D survey ST11M01. Inline 6201. Xline 5079
Utvinningstillatelse	128 D
Boreoperatør	Equinor Energy AS
Boretillatelse	1714-L
Boreinnretning	SONGA ENCOURAGE
Boredager	33
Borestart	16.07.2018
Boreslutt	17.08.2018
Plugget dato	17.08.2018
Frigitt dato	17.08.2020
Publiseringsdato	17.08.2020
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	EARLY CRETACEOUS
1. nivå med hydrokarboner, formasjon.	LANGE FM
Avstand, boredekk - midlere havflate [m]	32.0
Vanndybde ved midlere havflate [m]	373.0
Totalt målt dybde (MD) [m RKB]	3469.0
Totalt vertikalt dybde (TVD) [m RKB]	3469.0
Maks inklinasjon [°]	1.9
Temperatur ved bunn av brønnbanen [°C]	131
Eldste penetrerte alder	LATE JURASSIC



Eldste penetrerte formasjon	MELKE FM
Geodetisk datum	ED50
NS grader	66° 6' 9.54" N
ØV grader	8° 4' 23.11" E
NS UTM [m]	7331847.61
ØV UTM [m]	458098.81
UTM sone	32
NPDID for brønnbanen	8506

Brønnhistorie

Well 6608/10-18 was drilled to appraise the Cape Vulture discovery made by 6608/10-17 S on the Revfallet Fault Complex in the Norwegian Sea. The Cape Vulture Discovery consists of three Inta-Lange Formation sands, named the Cape Vulture Upper, Main, and Lower. The primary objective for 6608/10-18 was to test the hydrocarbon potential and hydrocarbon contacts in the Cape Vulture Main and Lower sandstones.

Operations and results

Appraisal well 6608/10-18 was spudded with the semi-submersible installation Songa Encourage on 16 July 2018 and drilled to TD at 3469 m in the Late Jurassic Melke Formation. Operations proceeded without significant problems. The well was drilled with seawater and hi-vis pills down to 1350 m and with Enviromul oil-based mud from 1350 m to TD.

A thin water bearing Cape Vulture Upper sand without shows was penetrated from 3038 to 3041 m. Cape Vulture Main came in at 3078 m, 16 meters shallower than prognosis, and with a gross thickness of 26 meter. Good reservoir quality with an 'oil-down-to' situation was observed in Cape Vulture Main. Cape Vulture Lower came in at 3122 m, 26 meter (TVD) shallower than prognosed. The Cape Vulture Lower reservoir was oil-bearing as well but was only 4 meters thick and of moderate to poor quality. Oil shows were described in the oil-bearing reservoir sections, but nowhere else in the well.

One core was cut in the Lange Formation from 3082 to 3190 m with 99.6% recovery. Fluid samples were taken at 3083.0 m (oil), 3086.3 m (oil), and 3123.9 m (oil).

The well was permanently abandoned on 17 August 2018 as an oil appraisal well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1360.00	3468.00

Borekaks tilgjengelig for prøvetaking?	YES
--	-----



Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3082.0	3189.6	[m]

Total kjerneprøve lengde [m]	107.6
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
405	NORDLAND GP
405	NO FORMAL NAME
681	NAUST FM
1391	KAI FM
1639	HORDALAND GP
1639	BRYGGE FM
1876	ROGALAND GP
1876	TARE FM
1944	TANG FM
1973	SHETLAND GP
1973	SPRINGAR FM
2217	NISE FM
2695	KVITNOS FM
2850	CROMER KNOLL GP
2850	LYSING FM
2871	LANGE FM
3357	LYR FM
3418	VIKING GP
3418	SPEKK FM
3446	MELKE FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CMR MDT	2860	3123



FTWT	3082	3097
MWD LWD - ARC	456	1350
MWD LWD - ARC TELE	1350	2745
MWD LWD - CORE BHA	3082	3190
MWD LWD - GVR ARC TELE	2745	3082
MWD LWD - GVR ARC TELE	3190	3469
MWD LWD - TELE	405	456
ZAIT ECS PEX MSIP	2660	3470
ZO VSP	415	3470

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	442.0	36	456.5	0.00	
INTERM.	13 3/8	1340.4	17 1/2	1350.0	1.57	FIT
INTERM.	9 5/8	2737.0	12 1/4	2745.0	1.86	LOT
OPEN HOLE		3469.0	8 1/2	3469.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
407	1.35	13.0		KCl/Polymer	
1310	1.45	33.0		Enviromul	
1350	1.35	28.0		Enviromul	
1608	1.43	29.0		Enviromul	
2014	1.45	31.0		Enviromul	
2750	1.58	27.0		Enviromul	
2757	1.45	30.0		Enviromul	
2835	1.58	25.0		Enviromul	
3469	1.58	26.0		Enviromul	