



Generell informasjon

Brønnbane navn	6507/3-13
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Funn	6507/3-13
Brønn navn	6507/3-13
Seismisk lokalisering	ST11M01 Inline: 5513 Xline: 4720
Utvinningstillatelse	159 B
Boreoperatør	Equinor Energy AS
Boretillatelse	1757-L
Boreinnretning	TRANSOCEAN SPITSBERGEN
Boredager	36
Borestart	27.04.2019
Boreslutt	01.06.2019
Plugget dato	01.06.2019
Plugget og forlatt dato	07.06.2019
Frigitt dato	01.06.2021
Publiseringsdato	10.11.2021
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL/GAS
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	LATE CRETACEOUS
1. nivå med hydrokarboner, formasjon.	LYSING FM
2. nivå med hydrokarboner, alder	EARLY CRETACEOUS
2. nivå med hydrokarboner, formasjon	LANGE FM
Avstand, boredekk - midlere havflate [m]	40.0
Vanndybde ved midlere havflate [m]	368.0
Totalt målt dybde (MD) [m RKB]	3420.0
Totalt vertikalt dybde (TVD) [m RKB]	3420.0
Eldste penetrerte alder	EARLY CRETACEOUS
Eldste penetrerte formasjon	LYR FM



Geodetisk datum	ED50
NS grader	65° 59' 26.44" N
ØV grader	7° 44' 43.02" E
NS UTM [m]	7319626.15
ØV UTM [m]	443032.06
UTM sone	32
NPDID for brønnbanen	8720

Brønnhistorie

General

Well 6507/3-13 was drilled to test the Snadd Outer Outer and Black Vulture prospects on the Dønna Terrace in the Norwegian Sea. The primary objective was to prove mobile gas in the Snadd Outer Outer prospect (Lysing Formation). The secondary objective was to prove hydrocarbon presence in the Black Vulture prospect (Lange Formation). Planned TD was in the Spekk Formation

Operations and results

Wildcat well 6507/3-13 was spudded with the semi-submersible installation Transocean Spitsbergen on 27 April 2019 and drilled to TD at 3420 m in the Early Cretaceous Lyr Formation. Operations proceeded without significant problems however, after plugging back for side-tracking severe losses occurred leading to permanent abandonment and cancelling of the planned side-track 6507/3-13 A. Also, a lower than prognosed formation integrity on the 9 5/8" shoe prevented to set TD in the Spekk Formation. The well was drilled with seawater and hi-vis pills down to 1302 m and with XP-07 oil-based mud from 1302 m to TD.

Top of primary target Lysing Formation sandstone (Snadd Outer Outer) was penetrated at 2834 m. It was 26 m thick and gas-bearing down to a gas-water contact at ca 2841 m. Top of secondary target intra-Lange Formation sandstones (Black Vulture) was penetrated at 3171 m. The Black Vulture consisted of relatively thin sandstones with hydrocarbon indications interbedded in claystone. It extended down to 3317 m with a main reservoir sand from 3255 to 3280 m. Oil was proven in a 4-meter thick interval above the main reservoir interval. The main reservoir was hydrocarbon bearing, however with a complex fluid distribution. Oil was sampled above a water zone. Below this an oil sample was acquired, and in the deepest sand gas/condensate was sampled. No contacts were established in the Lange sandstones.

Oil shows were recorded only in the hydrocarbon bearing target reservoirs.

Two cores were cut. Core 1 was cut from 2840 to 2886 m in the Lysing Formation and underlying Lange claystone with 102% recovery. Core 2 was cut from 3258.85 to 3273 m in the Lange Formation sandstones with 95.8% recovery. MDT fluid samples were taken at 2838 m (gas), 2858.9 m (water), 3193.12 m (oil), 3260.2 m (oil), 3263.87 m (water), 3271.62 m (oil), and 3277.32 m (gas condensate).

The well was permanently abandoned on 22 May 2019 as an oil and gas discovery.

Testing

No drill stem test was performed.



Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1310.00	3420.00
Borekaks tilgjengelig for prøvetaking?	YES

Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2840.0	2886.0	[m]
2	3258.9	3273.0	[m]
Total kjerneprøve lengde [m]		60.2	
Kjerner tilgjengelig for prøvetaking?		YES	

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
408	NORDLAND GP
408	UNDIFFERENTIATED
655	NAUST FM
1354	KAI FM
1711	HORDALAND GP
1711	BRYGGE FM
1857	ROGALAND GP
1857	TARE FM
1922	TANG FM
1986	SHETLAND GP
1986	SPRINGAR FM
2178	NISE FM
2461	KVITNOS FM
2834	CROMER KNOLL GP
2834	LYSING FM
2859	LANGE FM
3377	LYR FM



Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
MDT CMR	2810	3360
MSCT	3188	3260
MSIP PEX XPT	1297	2743
MWD - ABG DGR EWR M5 PWD PCDC	473	1302
MWD - DGR ADR AGR PWD PCDC	2746	3420
MWD - DGR EWR P4 PWD PCDC	1302	2746
VSI4	368	3409
XLR	2834	3279
XPT PEX CMR	2690	3420
ZAIP MSIP NEXT PEX	2690	3420

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	36	470.0	42	470.0	0.00	
SURF.COND.	13 3/8	1297.0	17 1/2	1297.0	1.58	FIT
INTERM.	9 5/8	2740.0	12 1/4	2740.0	1.82	FIT
OPEN HOLE		3420.0	8 1/2	3420.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
408	1.35	11.0		Spud Mud	
468	1.03	1.0		Seawater	
473	1.35	14.0		Spud Mud	
537	1.03	1.0		Seawater	
1302	1.03	1.0		Seawater	
1302	1.35	14.0		Spud Mud	
1403	1.54	22.0		XP-07	
1403	1.45	16.0		XP-07	
1550	1.67	24.0		XP-07	
1550	1.51	20.0		XP-07	
2746	1.51	20.0		XP-07	



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 14.5.2024 - 17:23

2746	1.67	21.0		XP-07	
2752	1.67	20.0		XP-07	
3268	1.67	22.0		XP-07	
3268	1.68	21.0		XP-07	
3420	1.67	24.0		XP-07	