Generell informasjon

Brønnbane navn	6506/5-1 S
Type	EXPLORATION
Formål	WILDCAT
Status	PLUGGED
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Funn	6506/5-1 S (Nidhogg)
Brønn navn	6506/5-1
Seismisk lokalisering	WP18304-02013 / WP18304-04017
Utvinningstillatelse	1008
Boreoperatør	Aker BP ASA
Boretillatelse	1803-L
Boreinnretning	DEEPSEA NORDKAPP
Boredager	52
Borestart	30.01.2020
Boreslutt	21.03.2020
Plugget dato	21.03.2020
Frigitt dato	21.03.2022
Publiseringsdato	08.08.2022
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	GAS
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	LATE CRETACEOUS
1. nivå med hydrokarboner, formasjon.	LYSING FM
Avstand, boredekk - midlere havflate [m]	32.7
Vanndybde ved midlere havflate [m]	409.0
Totalt målt dybde (MD) [m RKB]	3225.0
Totalt vertikalt dybde (TVD) [m RKB]	3198.0
Eldste penetrerte alder	EARLY CRETACEOUS
Eldste penetrerte formasjon	LANGE FM
Geodetisk datum	ED50
NS grader	65° 31' 26.25'' N
ØV grader	6° 36' 31.37'' E
NS UTM [m]	7269133.48

ØV UTM [m]	389463.90
UTM sone	32
NPDID for brønnbanen	8961

Brønnhistorie

General

Well 6506/5-1 S was drilled to test the Nidhogg prospect on the eastern margin of the Rås Basin in the Norwegian Sea. The primary objective was to determine the presence of hydrocarbons and prove up commercial volumes within the

Late Cretaceous Lysing Formation.

Operations and results

Wildcat well 6506/5-1 S was spudded with the semi-submersible installation Deepsea Nordkapp on 30 January 2020 and drilled to TD at 3225 m (3198.3 m TVD) m in the Early Cretaceous Lange Formation. After TD, the well was plugged back and side-tracked from 2880 m (6506/5-1 S T2) for coring. The side-track was drilled to 3148.5 m (3120.93 m TVD). Operations proceeded without significant problems but due to prolonged waiting on weather, the well duration was 27 days more than planned. The well was drilled with seawater and hi-vis pills down to 521 m, with KCl/GEM/Polymer mud from 521 to1376.4 m and with Innovert NS oil-based mud from 1376.4 m to TD.

Top Lysing reservoir was confirmed at 3081.2 m (3054.4m TVD RKB), with gas down to the gas-water contact at 3097.3 m (3070.3 m TVD). In the side-track top Lysing reservoir was at 3080.9 m (3053.2 m TVD) at a distance 17.5 m from the main bore. No shows above background OBM were observed in either of the wellbores.

One core was cut in the 6506/5-1 S T1 side-tracked from 3077 to 3147.3 m. A petrophysical log run was performed in the side-track for correlation purposes. RCI fluid samples were taken at 3086.7 m (gas) and 3100.2 m (water). The samples were of good quality with less than 1% contamination.

The well was permanently abandoned on 21 March 2020 as a gas discovery.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1380.00	3225.00

Borekaks tilgjengelig for prøvetaking?	YES

Borekjerner i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3077.0	3147.1	[m]

Total kjerneprøve lengde [m]	70.1
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
441	NORDLAND GP
957	NAUST FM
1425	KAI FM
1685	ROGALAND GP
1685	TARE FM
1805	TANG FM
1883	SHETLAND GP
3081	CROMER KNOLL GP
3081	LYSING FM
3137	LANGE FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
LWD - ABGR GR RES ECD DI	2860	3077
SGR ECS TA RES NEU DEN	2857	3146

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	515.0	42	521.0	0.00	
SURF.COND.	13 3/8	1368.0	17 1/2	1376.0	1.65	FIT
LINER	9 5/8	2833.0	12 1/4	2833.0	1.77	FIT
OPEN HOLE		3120.0	8 1/2	3120.0	0.00	
OPEN HOLE		3199.0	8 1/2	3199.0	0.00	