



Generell informasjon

Brønnbane navn	6506/11-12 S
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Felt	BERLING
Funn	6506/11-10 Berling
Brønn navn	6506/11-12
Seismisk lokalisering	PGS18M01-PGS16909NWSOMVR20-SHAZ-KPDSM
Utvinningstillatelse	644
Boreoperatør	OMV (Norge) AS
Boretillatelse	1819-L
Boreinnretning	ISLAND INNOVATOR
Boredager	60
Borestart	30.05.2020
Boreslutt	28.07.2020
Plugget og forlatt dato	28.07.2020
Frigitt dato	28.07.2022
Publiseringsdato	08.08.2022
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	GAS
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	EARLY CRETACEOUS
1. nivå med hydrokarboner, formasjon.	LANGE FM
Avstand, boredekk - midlere havflate [m]	30.0
Vanndybde ved midlere havflate [m]	433.0
Totalt målt dybde (MD) [m RKB]	4150.0
Totalt vertikalt dybde (TVD) [m RKB]	4092.0
Eldste penetrerte alder	EARLY CRETACEOUS
Eldste penetrerte formasjon	LANGE FM
Geodetisk datum	ED50
NS grader	65° 8' 48.3" N



ØV grader	6° 20' 32.08" E
NS UTM [m]	7227614.06
ØV UTM [m]	375379.65
UTM sone	32
NPDID for brønnbanen	9057

Brønnhistorie

General

Well 6506/11-12 S was drilled to appraise the 6506/11-10 S Hades discovery. The primary objective was to delineate gas-bearing intra-Lange Formation sands (Breiflabb Member), reduce the uncertainty of the resource estimate, and to perform a formation test.

Operations and results

Appraisal well 6506/11-12 S was spudded with the semi-submersible installation Island Innovator on 31 May 2020 and drilled to TD at 4150 m in the Early Cretaceous Lange Formation. Most of the NPT on the well is caused by three events: repairing the BOP which caused 95 hours NPT, a burst kelly hose causing 37,5 hours NPT, and total losses at 2038 m due to a small intraformational fault not recognized on seismic during the planning phase causing 36 hours NPT. The well was drilled with seawater and hi-vis pills down to 532 m, with Glydril mud from 532 m to 2410 m, and with RheGuard oil-based mud from 2410 m to TD.

The well encountered top of the target sandstones (Breiflabb Member of the Lange Formation) at 4022 m (3963.2 m TVD) with poor to moderate reservoir quality. The reservoir held a gas column down to a possible gas-water contact / free water level at 4029 m (3971 m TVD) based on log interpretation and XPT measurements. The thick sand package at the top of the Breiflabb Member seen in the discovery well was not encountered, instead intercalated sands and shales were encountered immediately at the top reservoir. Additionally, the well encountered a 28 meters water-bearing sandstone interval at 4098 m with poor to moderate reservoir quality in the deeper part of the Lange Formation (Smørflyndre Member). This unit extended from 4098 m to TD.

There were no oil shows in the well.

One core was cut from 4030 to 4058 m with 96% recovery. No fluid sample was taken.

The well was permanently abandoned on 26 July 2020 as a gas appraisal.

Testing

Based on the results from the wireline, it was decided to plug back the reservoir without testing

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
540.00	4150.00



Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerner i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	4030.0	4056.8	[m]

Total kjerneprøve lengde [m]	26.8
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
464	NORDLAND GP
464	UNDIFFERENTIATED
557	NAUST FM
1530	KAI FM
1925	HORDALAND GP
1925	BRYGGE FM
2158	ROGALAND GP
2158	TARE FM
2187	TANG FM
2274	SHETLAND GP
2274	SPRINGAR FM
2494	NISE FM
2606	KVITNOS FM
3231	CROMER KNOLL GP
3231	LYSING FM
3371	LANGE FM
4022	UNDIFFERENTIATED
4098	UNDIFFERENTIATED

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
AIT NGI MSIP PPC	3943	4146



CBL GR	2350	3933
MWD - DIR GR PRES	434	530
MWD - DIR GR RES DEN NEU PRES	3974	4150
MWD - DIR GR RES DEN NEU SON PRE	2410	3974
MWD - DIR GR RES PRES	530	2410
PEX CMR XPT	3945	4123

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	530.0	36	532.0	0.00	
SURF.COND.	20	1464.0	26	1471.0	1.68	FIT
INTERM.	13 3/8	2399.0	17 1/2	2410.0	1.88	FIT
INTERM.	9 7/8	3943.0	12 1/4	3974.0	2.01	FIT
OPEN HOLE		4150.0	8 1/2	0.0	0.00	