



Generell informasjon

Brønnbane navn	6507/5-9 A
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Funn	6507/5-9 S (Shrek)
Brønn navn	6507/5-9
Seismisk lokalisering	PGU18301-2006-HR / PGU18301-4014-HR
Utvinningstillatelse	838
Boreoperatør	PGNiG Upstream Norway AS
Boretillatelse	1790-L
Boreinnretning	DEEPSEA NORDKAPP
Boredager	18
Borestart	28.09.2019
Boreslutt	15.10.2019
Plugget og forlatt dato	15.10.2019
Frigitt dato	15.10.2021
Publiseringsdato	10.11.2021
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	OIL/GAS
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	FANGST GP
2. nivå med hydrokarboner, alder	EARLY JURASSIC
2. nivå med hydrokarboner, formasjon	BÅT GP
Avstand, boredekk - midlere havflate [m]	32.5
Vanndybde ved midlere havflate [m]	358.0
Totalt målt dybde (MD) [m RKB]	2230.0
Totalt vertikalt dybde (TVD) [m RKB]	2167.0
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	BÅT GP
Geodetisk datum	ED50



NS grader	65° 39' 35.84" N
ØV grader	7° 38' 50.85" E
NS UTM [m]	7282861.20
ØV UTM [m]	437797.13
UTM sone	32
NPDID for brønnbanen	8899

Brønnhistorie



General

Well 6507/5-9 A is located approximately 5 km south of the Skarv Field in the Norwegian Sea. The main objectives of the well were to appraise the 6507/5-9 S (Shrek) discovery in the western downfaulted segment of the structure, prove additional commercial volumes in Fangst Group sandstones and secure necessary data to enable a full evaluation of the discovery.

Operations and results

Well 6507/5-9 A was entered with the semi-submersible rig Deepsea Nordkapp. The mainbore well 6507/5-9 S (Shrek) was drilled deviated to a depth of 2317 m in the Båt group and plugged back. The well 6507/5-9 A well was then side-tracked from below the 13 3/8" casing at a depth of 1106 m on 28 September 2019 and drilled to TD at 2230 (2166 m TVD) in the Early Jurassic Åre Formation. The mainbore well was drilled down to 456.5 m with seawater and sweeps and from 456.5 to 1103 m with seawater, hi-vis, and KCl/Glycol water-based mud. The side-tracked was drilled with Innovert oil-based mud down to TD.

The well 6507/5-9 A encountered the top of Fangst Group, Garn Formation, at 2108 m (2011.9 m TVD MSL) where the Garn Formation consists of sandstone. The Not Formation was penetrated at 2148 m (2051.8 m TVD MSL) and consists of sandstone and claystone, in parts silty. The Båt Group was encountered at 2156 m (2059.8 m TVD MSL) and comprises of the Tilje (2156 m, 2059.8 m TVD MSL) and Åre formations (2169 m, 2072.8 m TVD MSL) where both formations consist of sandstone with a thin coal layer. A 62.7 m hydrocarbon column was proved in the Fangst and Båt groups, 23.7 m of gas column was found in the Garn Formation and 39 m column of oil in the Garn, Not, Tilje and Åre formations. Forty-five meters of the column was in sandstone with mainly good to very good reservoir quality. The gas-oil contact (GOC) was determined from pressure gradient analysis at 2130.7 m (2034.6 m TVD MSL) and the oil-water contact (OWC) calculated from the pressure plot to be at 2169.7 m (2073.6 m TVD MSL). Both contacts came in at equivalent depth as in the discovery well. The Net-to-Gross ratio of the HC zone is calculated to be at 77.8 %. MDT fluid samples were taken at 2119 m (2022.9 m TVD MSL, gas), 2141.5 m (2045.3 m TVD MSL, oil) and 2186 m (2089.9 m TVD MSL, water). No cores were taken in the side-track, but 3 cores were cut from the primary target Garn in the mainbore.

The well was permanently plugged and abandoned on 15 October 2019 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]
1120.00	2230.00

Borekaks tilgjengelig for prøvetaking?	YES
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Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
392	NORDLAND GP
1333	UNDIFFERENTIATED
1552	KAI FM
1791	HORDALAND GP
1791	BRYGGE FM
1886	ROGALAND GP
1886	TARE FM
1979	TANG FM
1995	SHETLAND GP
1995	SPRINGAR FM
1999	NISE FM
2068	VIKING GP
2068	MELKE FM
2108	FANGST GP
2108	GARN FM
2148	NOT FM
2156	BÅT GP
2156	TILJE FM
2169	ÅRE FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
LWD - DGR ALD ADR CTN XB PWD DIR	2075	2230
LWD - DGR EWR P4 XB PWD DIR	456	1103
LWD - DIR	391	456
LWD - GEOTAP PWD DIR	1103	2075



LWD - GP DGR EWR P4 ALD CTN XB	1103	2075
NGI PPC MSIP GR	2069	2231
USIT CBL VDL GR	2119	2206
XLR GR	2084	2186
ZAIT NEXT PEX HNGS GR	2069	2231

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
INTERM.	9 5/8	2005.0	12 1/4	2011.0	1.67	LOT
OPEN HOLE		2166.0	8 1/2	2166.0	0.00	