



Generell informasjon

Brønnbane navn	6507/4-2 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Felt	DVALIN
Funn	6507/4-2 S (Dvalin Nord)
Brønn navn	6507/4-2
Seismisk lokalisering	
Utvinningstillatelse	211
Boreoperatør	Wintershall Dea Norge AS
Boretillatelse	1847-L
Boreinnretning	DEEPSEA ABERDEEN
Boredager	89
Borestart	20.02.2021
Boreslutt	19.05.2021
Plugget og forlatt dato	19.05.2021
Frigitt dato	19.05.2023
Publiseringsdato	12.09.2023
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL/GAS/CONDENSATE
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	GARN FM
2. nivå med hydrokarboner, alder	LATE CRETACEOUS
2. nivå med hydrokarboner, formasjon	LANGE FM
3. nivå med hydrokarboner, alder	LATE CRETACEOUS
3. nivå med hydrokarboner, formasjon	LYSING FM
Avstand, boredekk - midlere havflate [m]	32.0
Vanndybde ved midlere havflate [m]	450.0
Totalt målt dybde (MD) [m RKB]	4485.0



Totalt vertikalt dybde (TVD) [m RKB]	4430.0
Maks inklinasjon [°]	16.7
Temperatur ved bunn av brønnbanen [°C]	162
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	ROR FM
Geodetisk datum	ED50
NS grader	65° 32' 23.77" N
ØV grader	7° 11' 22.41" E
NS UTM [m]	7270017.61
ØV UTM [m]	416357.57
UTM sone	32
NPDID for brønnbanen	9251

Brønnhistorie

General

Well 6507/4-2 S was drilled to test the Dvalin prospect on the Revfallet Fault Complex between the Victoria and rfugl discoveries in the Norwegian Sea. The primary objective for the well was to prove hydrocarbons in the Middle Jurassic Garn Formation in the Fangst Group. The secondary objectives were to prove hydrocarbons in the Cretaceous Lysing and Lange Formations.

Operations and results

Wildcat well 6507/4-2 S was spudded with the semi-submersible installation Deepsea Aberdeen on 20 February 2021 and drilled to TD at 4485 m (4430 m TVD) m in the early Jurassic Ror Formation. Non-production time was 19.7 days (22%) mainly due to ruptured BOP control Multiplex cable during a WOW period. This occurred during logging operations in the 8 1/2" section. The well was drilled with seawater and hi-vis pills down to 1500 m and with Innover NS oil-based mud from 1500 m to TD.

The well proved gas in the Garn Fm, with no proven gas-water contact, it proved gas/condensate in the Lysing Fm with gas-water contact at 2923.5 m (2915 m TVD), and it proved gas and oil in four differently pressured sand layers in the Lange Fm. No hydrocarbon contacts were identified in the Lange Formation. Shows were observed in the hydrocarbon bearing sands in the Lange and Garn formations. The deepest show in the Garn Formation was at 4363 m. In the Lysing Formation no shows were observed.

Three cores were cut in succession from 4262.4 to 4326.7 m in the Garn Formation. Total recovery was 100%. MDT fluid samples were taken in the Lysing Formation at 2897.5 m (gas condensate), 2909.2 (gas condensate) and 2961.5 m (water), in the Lange Formation at 3597.6 m (wet gas), 3701.6 m (oil) and 3822.3 m (oil), and in the Garn Formation at 4264 m (wet gas), 4268.6 m (wet gas) and 4326.6 m (wet gas).

The well was permanently abandoned on 19 May 2021 as an oil and gas discovery.

Testing

No drill stem test was performed.



Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1510.00	4485.00

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

Borekjerter i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	4262.4	4273.6	[m]
2	4274.0	4282.0	[m]
3	4282.0	4326.7	[m]

Total kjerneprøve lengde [m]	63.9
Kjerter tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
482	NORDLAND GP
487	NAUST FM
1449	KAI FM
1896	HORDALAND GP
1896	BRYGGE FM
1988	ROGALAND GP
1988	TARE FM
2032	TANG FM
2100	SHETLAND GP
2100	SPRINGAR FM
2342	NISE FM
2771	KVITNOS FM
2890	CROMER KNOLL GP
2890	LYSING FM
2963	LANGE FM
3550	NO FORMAL NAME



3823	VIKING GP
3823	MELKE FM
4262	FANGST GP
4262	GARN FM
4350	NOT FM
4361	ILE FM
4423	BÅT GP
4423	ROR FM
4446	TOFTE FM
4453	ROR FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
AIT PEX HNGS MSIP NGI PPC	2832	4020
CMR XPT NEXT	2850	3900
CMR XPT NEXT	4236	4455
ECS	4327	4327
LWD - ABG DGR EWR PWD PCDC	1500	2841
LWD - AFR ABG PCDC DGR ADR ALD -	2841	4029
LWD - COREA1	4262	4274
LWD - COREA2	4274	4282
LWD - COREA3	4282	4326
LWD - CTN XBAT XCAL PWD	2841	4029
LWD - DGR EWR PWD PCDC	544	1500
LWD - EWR DGR DM PWD	4029	4262
LWD - EWR DGR DM PWD ALD CTN	4326	4485
LWD - HO	482	544
LWD - PCDC PWD	4029	4029
MDT	2897	3900
MDT	3822	4020
MDT	4327	4327
MDT TLC	4264	4290
QAIT PPC ADT APS HLDS HNGS	3843	4487
QGEO SS PPC	4000	4472
SWC	4263	4365
SWC	4330	4365
SWC SGT MSCT	2832	4020



SWC SGT MSCT	2832	4020
USIHD CBL	2162	4025
VSP	911	4355

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	541.0	36	544.0	0.00	
INTERM.	13 3/8	1454.5	17 1/2	1500.0	1.64	FIT
INTERM.	9 7/8	2832.0	12 1/4	2841.0	1.77	LOT
LINER	7 5/8	4028.0	9 1/4	4029.0	2.16	FIT
OPEN HOLE		4485.0	6 1/2	4485.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
360	1.03	1.0	3.8	Sea Water	
544	1.49	19.0	8.6	Water Base	
1382	1.67	36.0	4.7	INNOVERT	
1452	1.49	26.0	9.5	INNOVERT	
1503	1.29	18.0	10.0	Water Base	
1650	1.51	33.0	9.0	Innovert	
2020	1.55	40.0	11.9	INNOVERT	
2505	1.67	41.0	3.3	INNOVERT	
2562	1.55	33.0	11.4	INNOVERT	
2820	1.55	34.0	10.0	INNOVERT	
2841	1.55	33.0	10.0	INNOVERT	
2845	1.59	30.0	7.1	INNOVERT	
2870	1.58	29.0	7.1	INNOVERT	
2925	1.57	29.0	5.7	Innovert	
3041	1.61	29.0	6.2	Innovert	
3095	1.64	28.0	7.6	Innovert	
3098	1.64	28.0	5.7	Innovert	
3690	1.65	31.0	4.7	INNOVERT	
4029	1.67	28.0	8.6	INNOVERT	
4485	1.67	40.0	7.6	INNOVERT	

