



Generell informasjon

Brønnbane navn	6407/1-8 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Funn	6407/1-8 S (Sierra)
Brønn navn	6407/1-8
Seismisk lokalisering	MC3D-HVG2013EQZ18. IL: 3552. XL: 2762
Utvinningstillatelse	263 D
Boreoperatør	Equinor Energy AS
Boretillatelse	1827-L
Boreinnretning	WEST HERCULES
Boredager	37
Borestart	22.09.2020
Boreslutt	28.10.2020
Plugget og forlatt dato	28.10.2020
Frigitt dato	28.10.2022
Publiseringsdato	28.10.2022
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	GAS
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	LATE CRETACEOUS
1. nivå med hydrokarboner, formasjon.	LANGE FM
Avstand, boredekk - midlere havflate [m]	31.0
Vanndybde ved midlere havflate [m]	295.0
Totalt målt dybde (MD) [m RKB]	3570.0
Totalt vertikalt dybde (TVD) [m RKB]	3551.0
Maks inklinasjon [°]	11.1
Eldste penetrerte alder	MIDDLE JURASSIC
Eldste penetrerte formasjon	ILE FM
Geodetisk datum	ED50
NS grader	64° 59' 55.63" N



ØV grader	7° 11' 29.72" E
NS UTM [m]	7209719.38
ØV UTM [m]	414722.25
UTM sone	32
NPDID for brønnbanen	9093

Brønnhistorie

General

Well 6407/1-8 S was drilled to test the Apollonia prospect in the Grinda Graben in the Norwegian Sea. The primary objective was to test the hydrocarbon potential in the Early - Middle Jurassic Garn and Ile formations. No secondary targets were identified pre-drill, but the possible presence of overpressured HC bearing sandstones in the Lange Formation was identified as an operational risk in the overburden. In case of a discovery in the primary target an appraisal side-track 6407/1-8 A was planned.

Operations and results

An 8 1/2" shallow gas pilot hole was drilled to 1250 m equivalent to the planned depth of the 26" hole section. No shallow gas or shallow water influx was observed.

Wildcat well 6407/1-8 S was spudded with the semi-submersible installation West Hercules on 20 September 2020 and drilled to TD at 3570 m (3551 m TVD) m in the Middle Jurassic Ile Formation. Operations proceeded without significant problems. The well was drilled with seawater and hi-vis pills down to 1245 m, with Glydril water-based mud from 1245 m to 2232 m, with Versatec oil-based mud from 2232 m to 3405 m, and with Exploradril oil-based mud from 3405 m to TD.

Gas peaks and minor shows with direct fluorescence were seen in cutting samples below top of the Nise Formation. Hydrocarbon filled sand was observed in the Lange Formation, confirmed by both logs, pressure points and mud gas measurements. The hydrocarbon shows were bluish white to yellowish white, strong direct fluorescence, no to very slow blooming bluish white cut fluorescence and with no visible cut. The primary targets Garn and Ile formations were dry, with no gas response and no hydrocarbon shows.

No cores were cut, and no fluid samples were taken in the well.

Due to no discovery in the primary target the planned 6407/1-8 A side-track was cancelled.

The well was permanently abandoned on 28 October 2020 as a gas discovery.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1250.00	3570.00



Borekaks tilgjengelig for prøvetaking?	YES
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Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
327	NORDLAND GP
327	NAUST FM
1436	KAI FM
1755	HORDALAND GP
1755	BRYGGE FM
2119	ROGALAND GP
2119	TARE FM
2206	TANG FM
2262	SHETLAND GP
2262	SPRINGAR FM
2383	NISE FM
2724	KVITNOS FM
2930	CROMER KNOLL GP
2930	LYSING FM
2950	LANGE FM
3187	UNDIFFERENTIATED
3301	VIKING GP
3301	SPEKK FM
3329	MELKE FM
3437	FANGST GP
3437	GARN FM
3520	NOT FM
3555	ILE FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
AIT MSIP XPT PEX GR	3405	3569
IBC CBL	2145	3390
MSIP XPT GR	2224	3393
MWD - ARC TELE	377	2232
MWD - PD ARC TELE	3405	3570
MWD - PD ARC TELE ADN	2232	3405



MWD - PD HARC TELE	377	1250
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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	375.7	42	377.0	0.00	
INTERM.	20	1237.9	26	1245.0	1.69	FIT
INTERM.	13 5/8	2224.6	17 1/2	2232.0	1.88	FIT
INTERM.	9 5/8	3394.6	12 1/4	3405.0	1.99	FIT
OPEN HOLE		3570.0	8 1/2	3570.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	flytegrense [Pa]	Type slam	Dato, måling
377	1.04	28.0	25.5	Spud Mud	
378	1.30	14.0	7.0	Spud Mud	
1245	1.45	19.0	16.0	Glydril	
2050	1.56	19.0	17.0	Glydril	
2442	1.72	57.0	9.0	Versatec	
2968	1.76	73.0	9.5	Versatec	
3405	1.76	72.0	9.5	Versatec	
3570	1.28	16.0	6.0	Exploradrill	