



Generell informasjon

Brønnbane navn	35/11-24 A
Type	EXPLORATION
Formål	APPRAISAL
Status	PLUGGED
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Funn	35/11-24 S (Swisher)
Brønn navn	35/11-24
Seismisk lokalisering	3D survey CGG18M01. Inline: 7451. X-line: 27437
Utvinningstillatelse	248 C
Boreoperatør	Equinor Energy AS
Boretillatelse	1824-L
Boreinnretning	WEST HERCULES
Boredager	18
Borestart	11.08.2020
Boreslutt	28.08.2020
Plugget dato	28.08.2020
Frigitt dato	28.08.2022
Publiseringsdato	28.08.2022
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	GAS
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	LATE JURASSIC
1. nivå med hydrokarboner, formasjon.	HEATHER FM
Avstand, boredekk - midlere havflate [m]	31.0
Vanndybde ved midlere havflate [m]	356.0
Totalt målt dybde (MD) [m RKB]	3549.0
Totalt vertikalt dybde (TVD) [m RKB]	3244.6
Maks inklinasjon [°]	39.6
Temperatur ved bunn av brønnbanen [°C]	125
Eldste penetrerte alder	MIDDLE JURASSIC
Eldste penetrerte formasjon	HEATHER FM



Geodetisk datum	ED50
NS grader	61° 5' 40.68" N
ØV grader	3° 23' 59.11" E
NS UTM [m]	6773554.73
ØV UTM [m]	521557.60
UTM sone	31
NPDID for brønnbanen	9066

Brønnhistorie

General

Well 35/11-24 A is a geological side-track to well 35/11-23 S on the Lomre terrace, 6km west of the Fram Vest field in the North Sea. Well 35/11-24 S (Swisher) found oil and gas in two Intra-Heather Formation sandstones, and 35/11-24 A was drilled down-flank on the Swisher structure to appraise the discovery and to establish the hydrocarbon-water contacts.

Operations and results

Appraisal well 35/11-24 A was kicked off at 1614 m in the primary well on 11 August 2020. It was drilled with the semi-submersible installation West Hercules to TD at 3549 m (3244.6 m TVD) m in Middle Jurassic claystone belonging to the Heather Formation. Operations proceeded without significant problems. The well was drilled with Versatec oil-based mud from kick-off to TD.

The well penetrated the target Intra-Heather Formation sandstone units from 3337 to 3374 m (3052 to 3086 m TVD) and 3440 to 3471 m (3146 to 3174 m TVD). The upper unit contained a small gas column, but on a ca 8 bar higher pressure gas gradient compared to the gas in the 35/11-23 S well. The lower unit was water bearing. Oil shows in the form of fluorescence and cut were seen in both units.

One core was cut from 3342.0 to 3365.2 m in the upper sandstone unit, with 100% recovery. The core-log shift is 0.9 m MDT fluid samples were taken at 3344.0 m (gas), 3349.0 m (gas), 3352.4 m (water), and 3441.5 m (water).

The well was permanently abandoned on 28 August 2020 as a gas appraisal well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1620.00	3549.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3342.0	3365.2	[m]

Total kjerneprøve lengde [m]	23.2
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
387	NORDLAND GP
387	NO FORMAL NAME
771	UTSIRA FM
871	HORDALAND GP
871	NO FORMAL NAME
1700	ROGALAND GP
1700	BALDER FM
1753	SELE FM
1772	LISTA FM
1982	VÅLE FM
2089	SHETLAND GP
2089	JORSALFARE FM
2317	KYRRE FM
2845	SVARTE FM
2890	CROMER KNOLL GP
2890	RØDBY FM
2919	SOLA FM
2996	ÅSGARD FM
3016	VIKING GP
3016	DRAUPNE FM
3331	HEATHER FM
3337	INTRA HEATHER FM SS
3374	HEATHER FM
3440	INTRA HEATHER FM SS
3471	HEATHER FM



Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CMR MDT	3340	3549
MDT	3344	3371
MWD - GR RES DIR ECD	1614	3549
NGI MSIP NEXT	3183	3549
XLR	3328	3472
ZAIT XPT PEX HNGT	3183	3549

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
LINER	9 5/8	3184.0	12 1/4	3185.0	1.63	FIT
OPEN HOLE		3549.0	8 1/2	3549.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
1534	1.37	32.0	9.0	Versatec	
3185	1.37	31.0	9.5	Versatec	
3268	1.25	22.0	7.0	Versatec	
3549	1.25	23.0	9.0	Versatec	