



Generell informasjon

Brønnbane navn	2/8-18 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	2/8-18
Seismisk lokalisering	GA3D-93R05 inline 1512 & xline 555
Utvinningstillatelse	440 S
Boreoperatør	Faroe Petroleum Norge AS
Boretillatelse	1386-L
Boreinnretning	MÆRSK GUARDIAN
Boredager	51
Borestart	23.05.2012
Boreslutt	13.07.2012
Frigitt dato	13.07.2014
Publiseringsdato	09.12.2014
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	43.0
Vanndybde ved midlere havflate [m]	69.0
Totalt målt dybde (MD) [m RKB]	2852.0
Totalt vertikalt dybde (TVD) [m RKB]	2662.0
Maks inklinasjon [°]	36.7
Eldste penetrerte alder	LATE CRETACEOUS
Eldste penetrerte formasjon	HIDRA FM
Geodetisk datum	ED50
NS grader	56° 22' 37.58" N
ØV grader	3° 22' 25.09" E
NS UTM [m]	6248253.07
ØV UTM [m]	523076.52
UTM sone	31
NPDID for brønnbanen	6747



Brønnhistorie

General

The 2/8-18 S well was drilled on the Clapton Prospect in the Feda Graben in the Norwegian North Sea. The main target was chalks of the Shetland Group, analogous to the nearby fields Eldfisk, Eldfisk East, Valhall and Ekofisk.

Operations and results

Wildcat well 2/8-18 S was spudded with the jack-up installation Mærsk Guardian on 23 May 2012 and drilled to TD at 2852 m ((2662 m TVD) in the Late Cretaceous Hydra Formation. It was drilled deviated to avoid shallow gas over the crest of the structure and to penetrate the steeply dipping reservoir at the right angle. The well was vertical down to 1506 m and built up to a sailing angle of ca 36 deg at 1900 m. The well was drilled with KCL/GEM mud down to 568 m and with oil based XP-07 mud from 568 m to TD.

Oil shows were encountered in the Utsira Formation at 870 m (869 m TVD), triggering a wire line acquisition programme to evaluate this reservoir. Pressure samples were acquired, proving a tight reservoir. Fluid sampling was not attempted. Petrophysical analysis concluded a low permeability siltstone reservoir with low oil saturation. Formation tops came in as prognosed down to top Rogaland Group. In the Rogaland Group, the Lista Formation turned out to be significantly thinner than expected, and the Våle Formation was not present. The deviation is interpreted to be caused by a fault, offsetting the lower part of the Lista Formation and the Våle Formation. The main target in the Shetland Group / Ekofisk Formation was encountered at 2742 m (2567.8 m TVD) with oil shows. Coring was initiated, and two cores containing a total of 36 m of core was recovered. All the formations of the Shetland Group were significantly thinner than prognosed. The matrix properties of the reservoir were within the expected range, but devoid of any open fracture system that could enhance the producibility of the reservoir.

The two cores were taken in the Ekofisk and Tor formations and the first one-meter of the Hod Formation over the interval 2746 m to 2782 m with 100% recovery. No wire line logs were run in the Shetland Group, only MWD. No fluid samples were taken in the well.

The well was permanently abandoned on 13 July as a dry well with shows.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
230.00	2852.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet



Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2746.0	2755.3	[m]
2	2755.3	2782.0	[m]

Total kjerneprøve lengde [m]	36.0
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
112	NORDLAND GP
870	UTSIRA FM
1606	HORDALAND GP
1606	NO FORMAL NAME
2480	NO FORMAL NAME
2685	ROGALAND GP
2685	BALDER FM
2695	SELE FM
2725	LISTA FM
2735	VÅLE FM
2742	SHETLAND GP
2742	EKOFISK FM
2771	TOR FM
2781	HOD FM
2838	BLODØKS FM
2841	HIDRA FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
GR NEU DEN CAL	500	1450
MWD LWD - DIR PWD	112	568
MWD LWD - DIR PWD GR RES	226	568
MWD LWD - DIR PWD GR RES	2743	2746
MWD LWD - DIR PWD GR RES DEN POR	2746	2852



MWD LWD - DIR PWD GR RES SON	568	2743
RDT	675	965

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	218.0	36	226.0	0.00	
SURF.COND.	20	560.0	26	568.0	0.00	
INTERM.	13 3/8	1498.0	17 1/2	1498.0	0.00	
INTERM.	9 5/8	2739.0	12 1/4	2743.0	0.00	
OPEN HOLE		2852.0	8 1/2	2852.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
226	1.49	7.0		Spud mud	
455	1.19	9.0		Spud mud	
568	1.19	8.0		KCL/GEM/Polymer	
589	1.35	23.0		XP-07 OBM	
1506	1.48	23.0		OBM	
2510	1.70	33.0		OMB	
2539	1.48	30.0		OBM	
2560	1.70	32.0		OBM	
2746	1.64	30.0		OMB	
2835	1.64	30.0		XP-07	