



Generell informasjon

Brønnbane navn	25/8-18 S
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	BREIDABLIKK
Funn	25/8-4 Breidablikk
Brønn navn	25/8-18
Seismisk lokalisering	NH9301R07 inline 1118 & crossline 738
Utvinningstillatelse	169
Boreoperatør	Statoil Petroleum AS
Boretillatelse	1503-L
Boreinnretning	TRANSOCEAN LEADER
Boredager	24
Borestart	29.09.2014
Boreslutt	23.10.2014
Frigitt dato	23.10.2016
Publiseringsdato	23.10.2016
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	PALEOCENE
1. nivå med hydrokarboner, formasjon.	HEIMDAL FM
Avstand, boredekk - midlere havflate [m]	23.5
Vanndybde ved midlere havflate [m]	129.0
Totalt målt dybde (MD) [m RKB]	1890.0
Totalt vertikalt dybde (TVD) [m RKB]	1884.0
Maks inklinasjon [°]	11
Temperatur ved bunn av brønnbanen [°C]	74
Eldste penetrerte alder	LATE CRETACEOUS
Eldste penetrerte formasjon	TOR FM
Geodetisk datum	ED50



NS grader	59° 15' 1.15" N
ØV grader	2° 37' 0.57" E
NS UTM [m]	6568140.53
ØV UTM [m]	478144.69
UTM sone	31
NPDID for brønnbanen	7388

Brønnhistorie

General

Well 25/8-18 S was drilled to appraise the 25/8-4 Hedila discovery on the Utsira High, east of the Ringhorne and Grane Fields in the North Sea. The primary objective was to test the Hydrocarbon potential in Lower Heimdal sands. Secondary objective was to test the upper Heimdal Formation, in a structurally high location.

Operations and results

Appraisal well 25/8-18 S was spudded with the semi-submersible installation Transocean Leader on 29 September 2014 and drilled to TD at 1890 m in the Late Cretaceous Tor Formation. The well was drilled as a J shape well, consisting of three hole sections: 36", 17 1/2" and 12 1/4". To reach the target location, the well was drilled with an inclination of up to 11 deg in the 12 1/4 section. There were no indication of shallow gas in the well. No significant problem was encountered in the operations. The well was drilled with seawater/spud mud down to 1165 m and with XP-07 oil based mud from 1165 m to TD.

The well encountered a 25 m oil column in sandstones with good reservoir properties from top Lower Heimdal Formation at 1759.0 m (1755.5 m TVD) and down to the OWC at 1785 m (1780.5 m TVD). In addition, several thin hydrocarbon-filled stringers, interpreted as Upper Heimdal injectites, were found within the Lista Formation. The pressure points indicate a continuous oil gradient through the upper and lower sands, inferring vertical communication between the Upper- and Lower Heimdal Formation. Additionally, the well found a gas-filled sand stringer at 1704 to 1707 m within the Balder Formation. Hydrocarbon shows were seen only in association with the hydrocarbon-filled intervals.

Two 27 m cores were cut from 1737.5 to 1792 m in the Heimdal Formation, covering the thinner injectite sandstones of the Upper Heimdal Formation, and the transition into the thick sandstone unit of the Lower Heimdal Formation. The last 5.6 m of the first core was lost, due to a failure of the full closure catcher system. Sampling and pressure points were sampled on wireline in the interval from 1706 to 1796 m. Oil was sampled at 1760 m in the Heimdal Formation, and gas was sampled in the Balder Formation at 1706.1 m. The samples contained less than 1% mud contamination. Geochemical analyses of the Balder sample showed a biodegraded gas with characteristic heavy carbon-13 isotopes in propane. The Heimdal oil sample is indicated to be a mix of earlier biodegraded oil and fresh, non-degraded oil.

The well was permanently abandoned on 23 October 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]
1170.00	1890.00

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

Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	1737.5	1758.9	[m]
2	1765.0	1792.1	[m]

Total kjerneprøve lengde [m]	48.5
Kjerner tilgjengelig for prøvetaking?	YES

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
1170.0	[m]	DC	ROBERTSO
1200.0	[m]	DC	ROBERT
1220.0	[m]	DC	ROBERT
1230.0	[m]	DC	ROBERT
1260.0	[m]	DC	ROBERT
1290.0	[m]	DC	ROBERT
1320.0	[m]	DC	ROBERT
1350.0	[m]	DC	ROBERT
1380.0	[m]	DC	ROBERT
1410.0	[m]	DC	ROBERT
1440.0	[m]	DC	ROBERT
1470.0	[m]	DC	ROBERT
1500.0	[m]	DC	ROBERT
1530.0	[m]	DC	ROBERT
1560.0	[m]	DC	ROBERT
1590.0	[m]	DC	ROBERT
1620.0	[m]	DC	ROBERT
1650.0	[m]	DC	ROBERT
1660.0	[m]	DC	ROBERT



1670.0	[m]	DC	ROBERT
1680.0	[m]	DC	ROBERT
1692.0	[m]	DC	ROBERT
1698.0	[m]	DC	ROBERT
1704.0	[m]	DC	ROBERT
1710.0	[m]	DC	ROBERT
1719.0	[m]	DC	ROBERT
1728.0	[m]	DC	ROBERT
1734.0	[m]	DC	ROBERT
1737.5	[m]	C	ROBERT
1741.0	[m]	C	ROBERT
1743.0	[m]	C	ROBERT
1744.0	[m]	C	ROBERT
1745.0	[m]	C	ROBERT
1749.0	[m]	DC	ROBERT
1749.4	[m]	C	ROBERT
1752.0	[m]	C	ROBERT
1756.0	[m]	C	ROBERT
1757.0	[m]	C	ROBERT
1758.9	[m]	C	ROBERT
1764.0	[m]	DC	ROBERT
1767.3	[m]	C	ROBERT
1794.0	[m]	DC	ROBERT
1809.0	[m]	DC	ROBERT
1818.0	[m]	DC	ROBERT
1833.0	[m]	DC	ROBERT
1842.0	[m]	DC	ROBERT
1848.0	[m]	DC	ROBERT
1854.0	[m]	DC	ROBERT
1860.0	[m]	DC	ROBERT

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
153	NORDLAND GP
713	UTSIRA FM
1034	HORDALAND GP
1078	SKADE FM
1698	ROGALAND GP



1698	BALDER FM
1725	SELE FM
1730	LISTA FM
1759	HEIMDAL FM
1815	LISTA FM
1854	VÅLE FM
1860	SHETLAND GP
1860	EKOFISK FM
1865	TOR FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
AIT PPC SS PEX	1155	1884
MDT	1706	1796
MWD - ARCVRES9 TELE	1730	1890
MWD - PDX5 ARCVRES9 TELE	1165	1735
MWD - PDX5 ARCVRES9 TELE675	201	1165
ZOVSP	100	1884

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	202.4	36	205.6	0.00	
INTERM.	13 3/8	1154.7	17 1/2	1165.0	1.44	FIT
OPEN HOLE		1890.0	12 1/4	1890.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
1165	1.20	16.0		XP-07 - #14	
1165	1.35	21.0		XP-07 - #14	
1747	1.20	17.0		XP-07 - #14	
1890	1.20	19.0		XP-07 - #14	