



Generell informasjon

Brønnbane navn	25/11-25 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	SVALIN
Funn	25/11-25 S Svalin
Brønn navn	25/11-25
Seismisk lokalisering	NH9301- inline 1660 & crossline 2020
Utvinningstillatelse	169
Boreoperatør	StatoilHydro Petroleum AS
Boretillatelse	1159-L
Boreinnretning	TRANSOCEAN WINNER
Boredager	27
Borestart	20.01.2008
Boreslutt	15.02.2008
Frigitt dato	15.02.2010
Publiseringsdato	15.02.2010
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	EOCENE
1. nivå med hydrokarboner, formasjon.	INTRA BALDER FM SS
Avstand, boredekk - midlere havflate [m]	26.0
Vanndybde ved midlere havflate [m]	125.0
Totalt målt dybde (MD) [m RKB]	2142.0
Totalt vertikalt dybde (TVD) [m RKB]	1830.0
Maks inklinasjon [°]	54.7
Temperatur ved bunn av brønnbanen [°C]	77
Eldste penetrerte alder	PALEOCENE
Eldste penetrerte formasjon	LISTA FM
Geodetisk datum	ED50



NS grader	59° 8' 48.64" N
ØV grader	2° 23' 21.12" E
NS UTM [m]	6556714.79
ØV UTM [m]	465056.23
UTM sone	31
NPDID for brønnbanen	5642

Brønnhistorie

**General**

Well 25/11-5 S and the geological sidetrack 25/11-25 A are located in a petroleum system just south of the Balder Field and southwest of the Grane Field, on the western margin of the Utsira High. The primary objective of the wells was to prove commercial hydrocarbons in the two independent prospects; M-prospect and Jacob North prospect (1500m apart). In 25/11-25 S the primary objective was to confirm producible oil from Intra Balder Formation Sandstone ("Odin sands"). A secondary objective was to evaluate the shallower Frigg sand and the Hermod Formation sandstones.

The objective of the 25/11-25 A sidetrack was to evaluate the formations within the Jurassic Statfjord Formation. The discovery of a 4 meter oil column in the Statfjord Formation in the recently drilled Jakob Sør prospect by well 25/11-24

necessitated an evaluation of potential Statfjord Formation targets in the area. The Jakob Nord and Jakob Sør prospects were separated by a saddle point coinciding with the oil water contact encountered in well 25/11-24.

Operations and results

Wildcat well 25/11-25 S was spudded with the semi-submersible installation Transocean Winner on 20 January 2008 and drilled to TD at 2142 m in the Paleocene Lista Formation. No shallow gas was observed by the ROV at the wellhead or by the MWD while drilling the 36" hole and the 12 1/4" pilot hole. The well was drilled with seawater down to 1094 m, and with Glydril mud (with ca 4% glycol) from 1094 m to TD.

The well penetrated rocks of Quaternary and Tertiary age. No Frigg sand was encountered and no recordable sand volumes were present in the Sele Formation. The well penetrated the Odin reservoir section at 2045 m, 14.4 m deeper than prognosed. Wire line logs confirmed an oil bearing interval between 2045 m and 2082.5 m proving oil down to the OWC at 2082.5 m (1790m TVD RKB). No shows were observed in the well other than in the oil-bearing Intra Balder Formation sandstone.

The well track was plugged back to 1476 m and permanently abandoned on 15 February 2008 as an oil discovery.

Well 25/11-25 A was sidetracked from 25/11-25 S at 1023 m and drilled to a total depth of 2448 m (2058 m TVD RKB). The well was drilled with Glydril mud (with ca 4% glycol) from kick-off to TD.

The well penetrated rocks of Tertiary, Cretaceous and Jurassic age. TD of the well was set in sandstones and claystones of the Statfjord Formation. The Statfjord Formation in well 25/11-25 A was encountered at 2372 m, 12 m TVD deeper than prognosed. The reservoir was more poorly developed than expected and there were no indications of hydrocarbons. Biostratigraphic results indicated presence of the lowermost part of the Lower Statfjord Formation only. No shows were reported in well 25/11-25 A.

One core was cut in 25/11-25 S in a hydrocarbon bearing interval from 2045 m - 2063 m the Intra Balder Formation sandstone, with 93% recovery. No cores were cut in 25/11-25 A. MDT oil sampling was performed at 2046 m and at 2065 m in 25/11-25 S. In total 175.7 litres were pumped during the sampling run of which 94.9 litres were pumped to the well bore. No fluid sampling was done in 25/11-25 A.

Sidetrack well 25/11-25 A was permanently abandoned on 10 March 2008 as dry well.

Testing

No drill stem test was performed in the wells.

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Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1100.00	2143.00
Borekaks tilgjengelig for prøvetaking?	YES

Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2045.0	2061.7	[m]
Total kjerneprøve lengde [m]	16.7		
Kjerner tilgjengelig for prøvetaking?	YES		

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
1130.0	[m]	DC	FUGRO
1140.0	[m]	DC	FUGRO
1150.0	[m]	DC	FUGRO
1168.0	[m]	DC	FUGRO
1180.0	[m]	DC	FUGRO
1190.0	[m]	DC	FUGRO
1200.0	[m]	DC	FUGRO
1210.0	[m]	DC	FUGRO
1220.0	[m]	DC	FUGRO
1230.0	[m]	DC	FUGRO
1240.0	[m]	DC	FUGRO
1250.0	[m]	DC	FUGRO
1260.0	[m]	DC	FUGRO
1270.0	[m]	DC	FUGRO
1280.0	[m]	DC	FUGRO
1290.0	[m]	DC	FUGRO
1300.0	[m]	DC	FUGRO
1310.0	[m]	DC	FUGRO
1320.0	[m]	DC	FUGRO
1330.0	[m]	DC	FUGRO



1340.0 [m]	DC	FUGRO
1350.0 [m]	DC	FUGRO
1360.0 [m]	DC	FUGRO
1370.0 [m]	DC	FUGRO
1380.0 [m]	DC	FUGRO
1390.0 [m]	DC	FUGRO
1400.0 [m]	DC	FUGRO
1410.0 [m]	DC	FUGRO
1420.0 [m]	DC	FUGRO
1430.0 [m]	DC	FUGRO
1440.0 [m]	DC	FUGRO
1450.0 [m]	DC	FUGRO
1460.0 [m]	DC	FUGRO
1470.0 [m]	DC	FUGRO
1480.0 [m]	DC	FUGRO
1490.0 [m]	DC	FUGRO
1500.0 [m]	DC	FUGRO
1510.0 [m]	DC	FUGRO
1520.0 [m]	DC	FUGRO
1530.0 [m]	DC	FUGRO
1540.0 [m]	DC	FUGRO
1560.0 [m]	DC	FUGRO
1570.0 [m]	DC	FUGRO
1580.0 [m]	DC	FUGRO
1590.0 [m]	DC	FUGRO
1600.0 [m]	DC	FUGRO
1610.0 [m]	DC	FUGRO
1620.0 [m]	DC	FUGRO
1630.0 [m]	DC	FUGRO
1640.0 [m]	DC	FUGRO
1650.0 [m]	DC	FUGRO
1660.0 [m]	DC	FUGRO
1670.0 [m]	DC	FUGRO
1680.0 [m]	DC	FUGRO
1690.0 [m]	DC	FUGRO
1700.0 [m]	DC	FUGRO
1710.0 [m]	DC	FUGRO
1720.0 [m]	DC	FUGRO
1730.0 [m]	DC	FUGRO
1740.0 [m]	DC	FUGRO



1750.0	[m]	DC	FUGRO
1760.0	[m]	DC	FUGRO
1770.0	[m]	DC	FUGRO
1780.0	[m]	DC	FUGRO
1790.0	[m]	DC	FUGRO
1800.0	[m]	DC	FUGRO
1810.0	[m]	DC	FUGRO
1820.0	[m]	DC	FUGRO
1830.0	[m]	DC	FUGRO
1840.0	[m]	DC	FUGRO
1850.0	[m]	DC	FUGRO
1860.0	[m]	DC	FUGRO
1870.0	[m]	DC	FUGRO
1880.0	[m]	DC	FUGRO
1890.0	[m]	DC	FUGRO
1900.0	[m]	DC	FUGRO
1910.0	[m]	DC	FUGRO
1920.0	[m]	DC	FUGRO
1930.0	[m]	DC	FUGRO
1939.0	[m]	DC	FUGRO
1942.0	[m]	DC	FUGRO
1945.0	[m]	DC	FUGRO
1948.0	[m]	DC	FUGRO
1951.0	[m]	DC	FUGRO
1954.0	[m]	DC	FUGRO
1957.0	[m]	DC	FUGRO
1960.0	[m]	DC	FUGRO
1963.0	[m]	DC	FUGRO
1966.0	[m]	DC	FUGRO
1969.0	[m]	DC	FUGRO
1972.0	[m]	DC	FUGRO
1975.0	[m]	DC	FUGRO
1978.0	[m]	DC	FUGRO
1981.0	[m]	DC	FUGRO
1984.0	[m]	DC	FUGRO
1987.0	[m]	DC	FUGRO
1990.0	[m]	DC	FUGRO
1993.0	[m]	DC	FUGRO
1996.0	[m]	DC	FUGRO
1999.0	[m]	DC	FUGRO



2002.0	[m]	DC	FUGRO
2005.0	[m]	DC	FUGRO
2008.0	[m]	DC	FUGRO
2011.0	[m]	DC	FUGRO
2014.0	[m]	DC	FUGRO
2017.0	[m]	DC	FUGRO
2020.0	[m]	DC	FUGRO
2023.0	[m]	DC	FUGRO
2026.0	[m]	DC	FUGRO
2029.0	[m]	DC	FUGRO
2032.0	[m]	DC	FUGRO
2035.0	[m]	DC	FUGRO
2038.0	[m]	DC	FUGRO
2041.0	[m]	DC	FUGRO
2045.1	[m]	C	FUGRO
2045.3	[m]	C	FUGRO
2047.5	[m]	C	FUGRO
2047.7	[m]	C	FUGRO
2048.0	[m]	C	FUGRO
2048.5	[m]	C	FUGRO
2068.0	[m]	DC	FUGRO
2071.0	[m]	DC	FUGRO
2074.0	[m]	DC	FUGRO
2077.0	[m]	DC	FUGRO
2080.0	[m]	DC	FUGRO

Oljeprøver i Sokkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
MDT		0.00	0.00	OIL		YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
151	NORDLAND GP
666	UTSIRA FM



746	NO FORMAL NAME
814	HORDALAND GP
814	SKADE FM
954	NO FORMAL NAME
1076	NO FORMAL NAME
1087	NO FORMAL NAME
1235	NO FORMAL NAME
1269	NO FORMAL NAME
1648	GRID FM
1656	NO FORMAL NAME
1999	ROGALAND GP
1999	BALDER FM
2045	INTRA BALDER FM SS
2087	BALDER FM
2109	SELE FM
2118	LISTA FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
MWD - DIR	151	208
MWD - EWR P4 DGR PWD	806	2142
MWD - EWR P4D DGR PWD	208	806
MWD - EWR P4D DGR PWR	208	840

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	204.0	36	204.0	0.00	LOT
SURF.COND.	13 3/8	1087.0	17 1/2	1094.0	1.69	LOT
LINER	9 5/8	1934.0	12 1/4	1936.0	1.72	LOT
OPEN HOLE		2142.0	8 1/2	2142.0	0.00	LOT

Boreslam



Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
1132	1.30			GLYDRIL	
1168	1.32	31.0		GLYDRIL	
1299	1.33	30.0		GLYDRIL	
1500	1.45	34.0		GLYDRIL	
1936	1.47	31.0		GLYDRIL	
2045	1.26	23.0		GLYDRIL	
2084	1.26	26.0		GLYDRIL	
2142	1.26	26.0		GLYDRIL	

Trykkplott

Porertrykksdataene kommer fra logging i brønnen hvis ingen annen kilde er oppgitt. I noen brønner der trykk ikke er logget, er det brukt informasjon fra formasjonstester eller brønnspark. Trykkdataene er rapportert inn til Oljedirektoratet og videre prosessert og kvalitetssikret av IHS Markit.

Dokument navn	Dokument format	Dokument størrelse [KB]
5642 Formation pressure (Formasjonstrykk)	PDF	0.21

