



Generell informasjon

Brønnbane navn	16/2-8
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	JOHAN SVERDRUP
Funn	16/2-6 Johan Sverdrup
Brønn navn	16/2-8
Seismisk lokalisering	LN0902-inline 2120 & crossline 6672
Utvinningstillatelse	265
Boreoperatør	Statoil Petroleum AS
Boretillatelse	1346-L
Boreinnretning	TRANSOCEAN LEADER
Boredager	34
Borestart	17.07.2011
Boreslutt	19.08.2011
Frigitt dato	19.08.2013
Publiseringsdato	19.08.2013
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	LATE JURASSIC
1. nivå med hydrokarboner, formasjon.	INTRA DRAUPNE FM SS
2. nivå med hydrokarboner, alder	MIDDLE JURASSIC
2. nivå med hydrokarboner, formasjon	HUGIN FM
Avstand, boredekk - midlere havflate [m]	23.5
Vanndybde ved midlere havflate [m]	112.0
Totalt målt dybde (MD) [m RKB]	2140.0
Totalt vertikalt dybde (TVD) [m RKB]	2140.0
Maks inklinasjon [°]	1
Temperatur ved bunn av brønnbanen [°C]	81



Eldste penetrerte alder	LATE TRIASSIC
Eldste penetrerte formasjon	SKAGERRAK FM
Geodetisk datum	ED50
NS grader	58° 48' 57" N
ØV grader	2° 32' 30.6" E
NS UTM [m]	6519785.69
ØV UTM [m]	473535.66
UTM sone	31
NPDID for brønnbanen	6562

Brønnhistorie



General

Statoil well 16/2-8 (Aldous Major South) was drilled about 4.2 kilometres west of the Lundin oil discovery well 16/2-6 (Avaldsnes) on the Utsira High in the North Sea. The 16/2-6 Avaldsnes discovery was proven in September 2010 in Middle-Late Jurassic reservoir rocks. The main objective of well 16/2-8 was to investigate the hydrocarbon potential in Late Jurassic sandstones in the Draupne Formation and the Middle Jurassic Hugin/Sleipner Formations. The secondary and third objectives were to explore the hydrocarbon potential in the Triassic Skagerrak Formation and in Chalks of the Late Cretaceous Shetland Group, respectively.

Operations and results

Wildcat well 16/2-8 was spudded with the semi-submersible installation Transocean Leader on 17 July 2011 and drilled to TD at 2140 m in the Triassic Skagerrak Formation. Neither shallow gas nor shallow water flow was observed and the well was drilled without significant problems. The well was drilled with seawater and bentonite sweeps down to 213 m, with seawater and bentonite/PAC RE sweeps from 213 m to 945 m, with Performadril WBM spec 6a from 945 m to 1573 m, and with Performadril Low sulphate WBM from 1573 m to TD.

The top of the main reservoir, in the Draupne Formation, was picked at 1877 m. The reservoir (Draupne and Hugin Formations) showed excellent reservoir properties and contained oil. An oil column of 67.5 m was present down to 1944.5 m (1921 m TVD MSL), close to the contact level seen in the 16/2-6 Avaldsnes well. Pressure data showed that the 16/2-8 Aldous Major South and the 16/2-6 Avaldsnes discoveries are in the same pressure regime and thus in communication. The secondary objective, Skagerrak Formation was water wet. The third objective, the Shetland Group chalk had moderate to poor oil shows in the very top, from 1573 to 1622 m, with a pronounced wet gas peak from 1573 to 1601 m.

Six cores were cut in the well. Cores 1 to 4 were cut from 1880.5 m to 1953.21 m in the Rødby Formation, across Draupne and Hugin formations and into the Sleipner Formation. Cores no 5 and 6 were cut from 1995 m to 2048.8 m in the Statfjord and Skagerrak formations. MDT wire line fluid samples were taken at 1882.1 m (oil), 1931.2 m (oil), 1945.0 m (water), 1945.4 m (water), and at 1947.2 m (water).

Well 16/2-8 proved communication between the Aldous Major South discovery in PL265 and the Avaldsnes discovery in PL501 made by Well 16/2-6 in august 2010. The two discoveries will be developed together under the name Johan Sverdrup Field. Well 16/2-8 was permanently abandoned on 19 August 2011 as an oil appraisal.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
950.00	2140.00



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

Borekjerne i Sökkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	1880.5	1907.7	[m]
2	1907.7	1935.3	[m]
3	1935.3	1952.0	[m]
4	1952.0	1953.2	[m]
5	1995.0	2022.5	[m]
6	2022.5	2048.8	[m]

Total kjerneprøve lengde [m]	126.5
Kjerner tilgjengelig for prøvetaking?	YES

Palynologiske preparater i Sökkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
950.0	[m]	DC	
970.0	[m]	DC	
990.0	[m]	DC	
1010.0	[m]	DC	
1030.0	[m]	DC	
1050.0	[m]	DC	
1070.0	[m]	DC	
1090.0	[m]	DC	
1110.0	[m]	DC	
1130.0	[m]	DC	
1150.0	[m]	DC	
1180.0	[m]	DC	
1200.0	[m]	DC	
1240.0	[m]	DC	
1260.0	[m]	DC	
1280.0	[m]	DC	
1300.0	[m]	DC	
1320.0	[m]	DC	
1340.0	[m]	DC	
1360.0	[m]	DC	



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 14.5.2024 - 19:59

1380.0 [m]	DC	
1400.0 [m]	DC	
1420.0 [m]	DC	
1440.0 [m]	DC	
1460.0 [m]	DC	
1480.0 [m]	DC	
1500.0 [m]	DC	
1520.0 [m]	DC	
1530.0 [m]	DC	
1540.0 [m]	DC	
1550.0 [m]	DC	
1560.0 [m]	DC	
1570.0 [m]	DC	
1576.0 [m]	DC	
1582.0 [m]	DC	
1600.0 [m]	DC	
1744.0 [m]	DC	
1750.0 [m]	DC	
1756.0 [m]	DC	
1762.0 [m]	DC	
1768.0 [m]	DC	
1774.0 [m]	DC	
1780.0 [m]	DC	
1792.0 [m]	DC	
1801.0 [m]	DC	
1807.0 [m]	DC	
1813.0 [m]	DC	
1819.0 [m]	DC	
1825.0 [m]	DC	
1831.0 [m]	DC	
1837.0 [m]	DC	
1843.0 [m]	DC	
1849.0 [m]	DC	
1852.0 [m]	DC	
1855.0 [m]	DC	
1858.0 [m]	DC	
1861.0 [m]	DC	
1864.0 [m]	DC	
1867.0 [m]	DC	
1870.0 [m]	DC	



1880.9	[m]	C	
1883.6	[m]	C	
1884.3	[m]	C	
1894.3	[m]	C	
1897.6	[m]	C	
1905.5	[m]	C	
1908.5	[m]	C	
1910.7	[m]	C	
1915.5	[m]	C	
1919.9	[m]	C	
1922.0	[m]	C	
1930.0	[m]	C	
1931.5	[m]	C	
1931.8	[m]	C	
1935.0	[m]	C	
1938.8	[m]	C	
1944.2	[m]	C	
1945.5	[m]	C	
1951.6	[m]	C	
1953.0	[m]	C	
1996.9	[m]	C	
2000.5	[m]	C	
2006.6	[m]	C	
2009.9	[m]	C	
2014.8	[m]	C	
2022.5	[m]	C	
2024.7	[m]	C	
2033.7	[m]	C	
2042.5	[m]	C	
2048.4	[m]	C	

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
136	NORDLAND GP
799	UTSIRA FM
1024	HORDALAND GP
1024	NO FORMAL NAME
1061	SKADE FM



1124	NO FORMAL NAME
1467	ROGALAND GP
1467	BALDER FM
1489	SELE FM
1503	LISTA FM
1572	SHETLAND GP
1572	EKOFISK FM
1576	TOR FM
1667	HOD FM
1750	BLODØKS FM
1767	SVARTE FM
1787	CROMER KNOLL GP
1787	RØDBY FM
1868	ÅSGARD FM
1877	VIKING GP
1877	INTRA DRAUPNE FM SS
1911	VESTLAND GP
1911	HUGIN FM
1945	SLEIPNER FM
1949	STATEFJORD GP
1951	HEGRE GP
1951	SKAGERRAK FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
FMI HNGS HRLA	1567	2135
MDT	1575	2110
MDT	1931	1931
MDT	1945	1945
MSIP GPIT PEX CBL	1100	2140
MWD - GR RES	212	2140
PEX	1510	1950

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	209.0	36	212.7	0.00	LOT



SURF.COND.	13 3/8	937.0	17 1/2	944.0	1.45	LOT
INTERM.	9 5/8	1567.5	12 1/4	1573.2	1.92	LOT
OPEN HOLE		2140.0	8 1/2	2140.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
936	1.14	15.0		Performadril	
945	1.14	15.0		Performadril	
1306	1.24	18.0		Performadril	
1573	1.25	21.0		Performadril	
1810	1.20	22.0		Performadril Low Sulphate	
1951	1.22	28.0		Performadril Low Sulphate	
1975	1.22	29.0		Performadril Low Sulphate	
2140	1.23	30.0		Performadril Low Sulphate	

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]
6562 Formation pressure (Formasjonstrykk)	pdf	0.22

