Generell informasjon

Brønnbane navn	7/1-2 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	7/1-2
Seismisk lokalisering	Crossline 2525- NH 0201
Utvinningstillatelse	271
Boreoperatør	StatoilHydro Petroleum AS
Boretillatelse	1174-L
Boreinnretning	MÆRSK GIANT
Boredager	50
Borestart	20.03.2008
Boreslutt	08.05.2008
Frigitt dato	08.05.2010
Publiseringsdato	08.05.2010
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	44.0
Vanndybde ved midlere havflate [m]	87.0
Totalt målt dybde (MD) [m RKB]	3175.0
Totalt vertikalt dybde (TVD) [m RKB]	3158.0
Maks inklinasjon [°]	16
Temperatur ved bunn av brønnbanen [°C]	126
Eldste penetrerte alder	MIDDLE JURASSIC
Eldste penetrerte formasjon	BRYNE FM
Geodetisk datum	ED50
NS grader	57° 55' 57.09'' N
ØV grader	2° 4' 10.82'' E
NS UTM [m]	6421722.87
ØV UTM [m]	444903.98
UTM sone	31
NPDID for brønnbanen	5793

Brønnhistorie

General

The 7/1-2 S Yoda well is located on the north-western margin of the Jæren High, 18 km southeast of the Varg field and 5.5 km northeast of the closest well 6/3-2. The well is located on a 4-way dip closure over a salt wall similar to the Rev discovery 13 km northwest of Yoda. The primary objective of the well was to prove commercial hydrocarbons in the Late Jurassic Ula Formation sandstones. The secondary objective was to test the Triassic prospectivity.

Operations and results

Well was spudded with the jack-up installation Mærsk Giant on 20 March 2008 and drilled to TD at 3175 m in the Middle Jurassic Bryne Formation. It was drilled slightly deviated in an S-shaped track, vertical down to ca 1600 m and below ca 2400 m with maximum deviation of 16 deg from vertical at 1893 m. Whilst drilling the 17 1/2" section from 592 to 1320 m the hole produced significant amounts of large, blocky cavings, but there were no real problems encountered during operations. The well was drilled with seawater down to 201 m, with Aquadril glycol/KCl mud from 201 to 1320 m, and with Carbo-Sea oil based mud from 1320 m to TD.

The Mandal Formation was encountered at 2848 m and was 71 m thick with very high gamma ray responses varying between 150 and 300 API. The top of the reservoir, Ula Formation, was encountered at 2945 m, 16 m shallower than prognosed, and 14 m thicker than prognosed. No shows were observed in cuttings and gas and the resistivity remained low throughout the Ula Formation indicating a water wet reservoir. The rock below the Ula Formation reservoir was prognosed to be the Triassic Skagerrak Formation. However, it turned out to be the Middle Jurassic Bryne Formation. As a result the well was TD?ed in the Bryne Formation and not as planned in the Skagerrak Formation. This was first discovered after receiving the post well biostratigraphy results.

No cores were cut and no wire line pressure or fluid samples were taken.

The well was permanently abandoned on 8 May 2008 as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
210.00	3175.00

Borekaks tilgjengelig for prøvetaking?	YES

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
610.0	[m]	DC	APT
810.0	[m]	DC	APT
910.0	[m]	DC	APT
1020.0	[m]	DC	APT
1110.0	[m]	DC	APT
1160.0	[m]	DC	APT
1180.0	[m]	DC	APT
1200.0	[m]	DC	APT
1220.0	[m]	DC	APT
1240.0	[m]	DC	APT
1260.0	[m]	DC	APT
1280.0	[m]	DC	APT
1300.0	[m]	DC	APT
1320.0	[m]	DC	APT
1340.0	[m]	DC	APT
1360.0	[m]	DC	APT
1380.0	[m]	DC	APT
1400.0	[m]	DC	APT
1420.0	[m]	DC	APT
1440.0	[m]	DC	APT
1460.0	[m]	DC	APT
1480.0	[m]	DC	APT
1500.0	[m]	DC	APT
1520.0	[m]	DC	APT
1540.0	[m]	DC	APT
1560.0	[m]	DC	APT
1580.0	[m]	DC	APT
1600.0	[m]	DC	APT
1620.0	[m]	DC	APT
1640.0	[m]	DC	APT
1660.0	[m]	DC	APT
1680.0	[m]	DC	APT
1700.0	[m]	DC	APT
1720.0	[m]	DC	APT
1740.0	[m]	DC	APT
1760.0	[m]	DC	APT
1780.0	[m]	DC	APT
1820.0	[m]	DC	APT
1840.0	[m]	DC	APT

1860.0	[m]	DC	APT
1880.0	[m]	DC	APT
1900.0	[m]	DC	APT
1920.0	[m]	DC	APT
1940.0	[m]	DC	APT
1960.0	[m]	DC	APT
1980.0	[m]	DC	APT
2000.0	[m]	DC	APT
2020.0	[m]	DC	APT
2040.0	[m]	DC	APT
2060.0	[m]	DC	APT
2080.0	[m]	DC	APT
2100.0	[m]	DC	APT
2120.0	[m]	DC	APT
2140.0	[m]	DC	APT
2160.0	[m]	DC	APT
2180.0	[m]	DC	APT
2200.0	[m]	DC	APT
2220.0	[m]	DC	APT
2240.0	[m]	DC	APT
2260.0	[m]	DC	APT
2280.0	[m]	DC	APT
2300.0	[m]	DC	APT
2320.0	[m]	DC	APT
2340.0	[m]	DC	APT
2360.0	[m]	DC	APT
2380.0	[m]	DC	APT
2420.0	[m]	DC	APT
2440.0	[m]	DC	APT
2460.0	[m]	DC	APT
2840.0	[m]	DC	APT
2850.0	[m]	DC	APT
2860.0	[m]	DC	APT
2870.0	[m]	DC	APT
2880.0	[m]	DC	APT
2890.0	[m]	DC	APT
2900.0	[m]	DC	APT
2910.0	[m]	DC	APT
2920.0	[m]	DC	APT
2930.0	[m]	DC	APT

2937.0	[m]	DC	APT
2949.0	[m]	DC	APT
2955.0	[m]	DC	APT
3126.0	[m]	DC	APT
3132.0	[m]	DC	APT
3138.0	[m]	DC	APT
3144.0	[m]	DC	APT
3150.0	[m]	DC	APT
3156.0	[m]	DC	APT
3162.0	[m]	DC	APT
3168.0	[m]	DC	APT
3175.0	[m]	DC	APT

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
130	NORDLAND GP
1280	HORDALAND GP
2212	ROGALAND GP
2212	BALDER FM
2240	SELE FM
2333	LISTA FM
2444	VÅLE FM
2462	SHETLAND GP
2462	EKOFISK FM
2480	TOR FM
2674	HOD FM
2806	CROMER KNOLL GP
2806	RØDBY FM
2828	SOLA FM
2840	ÅSGARD FM
2848	TYNE GP
2848	MANDAL FM
2919	FARSUND FM
2945	VESTLAND GP
2945	ULA FM
3122	BRYNE FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
HDIL XMAC DSL GR	2400	3172
MWD - DIR	130	201
MWD - DIR GR RES PWD	201	3173
ZDL CN GR	2870	3172
ZDL CN GR	2870	3172

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	198.0	36	201.0	0.00	LOT
SURF.COND.	20	583.0	26	592.0	1.85	LOT
INTERM.	13 3/8	1313.0	17 1/2	1320.0	1.80	LOT
INTERM.	9 5/8	2931.0	12 1/4	2937.0	2.12	LOT
OPEN HOLE		3175.0	8 1/2	3175.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
205	1.03			Water Based	
206	1.30	13.0		Water Based	
224	1.30	13.0		Water Based	
440	1.09	10.0		Water Based	
592	1.25	20.0		Water Based	
1038	1.39	19.0		Water Based	
1320	1.39	18.0		Water Based	