Generell informasjon

Brønnbane navn	6407/6-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Brønn navn	6407/6-1
Seismisk lokalisering	line 627-423 & SP 337
Utvinningstillatelse	092
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	437-L
Boreinnretning	ZAPATA UGLAND
Boredager	41
Borestart	16.09.1984
Boreslutt	26.10.1984
Frigitt dato	26.10.1986
Publiseringsdato	13.12.2005
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	27.0
Vanndybde ved midlere havflate [m]	226.0
Totalt målt dybde (MD) [m RKB]	2895.0
Totalt vertikalt dybde (TVD) [m RKB]	2895.0
Maks inklinasjon [°]	1
Temperatur ved bunn av brønnbanen [°C]	105
Eldste penetrerte alder	LATE TRIASSIC
Eldste penetrerte formasjon	RED BEDS (INFORMAL)
Geodetisk datum	ED50
NS grader	64° 38' 29.62'' N
ØV grader	7° 52' 31.53'' E
NS UTM [m]	7169163.29
ØV UTM [m]	446258.70
UTM sone	32
NPDID for brønnbanen	444

Brønnhistorie

General

Well 6407/6-1 was the third well to be drilled on the TrØndelag Platform offshore Mid Norway. The primary objective of the well was to investigate the reservoir potential of Middle Jurassic Sandstones (Fangst Group). Secondary objectives of the well were the Early Jurassic Sandstone HI-2 (Tilje and Åre Formations), and sandstones in the Triassic.

Operations and results

Wildcat well 6407/6-1 was spudded with the semi-submersible installation Zapata Ugland on 16 September 1984 and drilled to TD at 2895, 47 m into the Triassic Red Beds. In the 12 1/4" hole section the hole suddenly packed off at 1591, probably due to overpressured Early Eocene clays. The pipe was worked free and the mud weight increased. After that drilling proceeded without further difficulties. Logs were not run below 2869 m. The well was drilled with seawater/hi-vis slugs/gel down to 456 m, with gypsum/lignosulphonate mud from 456 m to TD. The well proved a good "upper sandstone member" (Garn Formation), and a "lower sandstone member" (Ile Formation). Sandstone sequences interbedded with siltstone, claystone, and coals were encountered also in the interval 2244 m to 2457 m, the Tilje Formation. Isolated weak shows were recorded on core no 1 in the lower part of the Garn Formation, otherwise no shows were observed in any part of the well. The RFT tool was run in the Middle Jurassic and four pressure points were obtained in good to very good permability sandstone in the Garn Formation. The average gradient was 1.00 g/cm, indicating the formation was water bearing. The electrical logs proved all reservoir sections in the well to be water bearing.

Four cores were cut in the Middle Jurassic Sandstone over the interval from 1870 - 1888.2 m. No fluid samples were taken.

The well was permanently abandoned on 26 October 1984 as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
320.00	2892.00

Borekaks tilgjengelig for prøvetaking?	NO

Borekjerner i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	1870.0	1877.3	[m]
2	1877.3	1886.4	[m]
3	1887.1	1887.6	[m]
4	1887.7	1888.2	[m]

Total kjerneprøve lengde [m]	17.3
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder


1870-1875m


1875-1877m


1877-1882m


1882-1886m


1887-1888m


1888-1889m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
1500.0	[m]	DC	STRAT
1515.0	[m]	DC	STRAT
1530.0	[m]	DC	STRAT
1545.0	[m]	DC	STRAT
1560.0	[m]	DC	STRAT
1575.0	[m]	DC	STRAT
1590.0	[m]	DC	STRAT
1605.0	[m]	DC	STRAT
1620.0	[m]	DC	STRAT
1635.0	[m]	DC	STRAT

1650.0	[m]	DC	STRAT
1665.0	[m]	DC	STRAT
1680.0	[m]	DC	STRAT
1695.0	[m]	DC	STRAT
1710.0	[m]	DC	STRAT
1725.0	[m]	DC	STRAT
1731.0	[m]	DC	STRAT
1740.0	[m]	DC	STRAT
1745.5	[m]	SWC	STRAT
1750.4	[m]	SWC	STRAT
1755.0	[m]	SWC	STRAT
1760.0	[m]	SWC	STRAT
1770.0	[m]	SWC	STRAT
1780.0	[m]	SWC	STRAT
1790.0	[m]	SWC	STRAT
1800.0	[m]	SWC	STRAT
1810.0	[m]	SWC	STRAT
1815.0	[m]	SWC	STRAT
1817.2	[m]	SWC	STRAT
1819.4	[m]	SWC	STRAT
1824.5	[m]	SWC	STRAT
1831.7	[m]	SWC	STRAT
1833.5	[m]	SWC	STRAT
1834.2	[m]	SWC	STRAT
1834.9	[m]	SWC	STRAT
1836.3	[m]	SWC	STRAT
1837.7	[m]	SWC	STRAT
1842.0	[m]	SWC	STRAT
1845.9	[m]	SWC	STRAT
1849.5	[m]	SWC	STRAT
1850.7	[m]	SWC	STRAT
1854.3	[m]	SWC	STRAT
1855.5	[m]	SWC	STRAT
1858.0	[m]	SWC	STRAT
1861.0	[m]	SWC	STRAT
1864.0	[m]	SWC	STRAT
1867.0	[m]	SWC	STRAT
1870.3	[m]	C	STRAT
1871.6	[m]	C	STRAT
1874.9	[m]	C	STRAT

1875.2	[m]	C	STRAT
1876.2	[m]	C	STRAT
1876.5	[m]	C	STRAT
1879.1	[m]	C	STRAT
1880.5	[m]	C	STRAT
1881.6	[m]	C	STRAT
1882.5	[m]	C	STRAT
1887.3	[m]	C	STRAT
1887.9	[m]	C	STRAT
1890.0	[m]	DC	STRAT
1905.0	[m]	DC	STRAT
1923.0	[m]	DC	STRAT
1933.0	[m]	SWC	STRAT
1935.0	[m]	DC	STRAT
1948.0	[m]	SWC	STRAT
1986.0	[m]	DC	STRAT
1987.0	[m]	SWC	STRAT
1995.0	[m]	DC	STRAT
2002.0	[m]	SWC	STRAT
2010.0	[m]	DC	STRAT
2017.0	[m]	SWC	STRAT
2025.0	[m]	DC	STRAT
2039.0	[m]	SWC	STRAT
2040.0	[m]	DC	STRAT
2055.0	[m]	DC	STRAT
2070.0	[m]	DC	STRAT
2091.0	[m]	DC	STRAT
2091.5	[m]	SWC	STRAT
2103.0	[m]	DC	STRAT
2107.0	[m]	SWC	STRAT
2115.0	[m]	DC	STRAT
2126.0	[m]	SWC	STRAT
2130.0	[m]	DC	STRAT
2142.0	[m]	SWC	STRAT
2145.0	[m]	DC	STRAT
2160.0	[m]	DC	STRAT
2175.0	[m]	DC	STRAT
2190.0	[m]	DC	STRAT
2197.0	[m]	SWC	STRAT
2205.0	[m]	DC	STRAT

2220.0	[m]	DC	STRAT
2220.0	[m]	SWC	STRAT
2235.0	[m]	DC	STRAT
2242.0	[m]	SWC	STRAT
2250.0	[m]	DC	STRAT
2252.0	[m]	SWC	STRAT
2262.0	[m]	SWC	STRAT
2265.0	[m]	DC	STRAT
2276.0	[m]	SWC	STRAT
2280.0	[m]	DC	STRAT
2295.0	[m]	DC	STRAT
2298.0	[m]	SWC	STRAT
2307.0	[m]	DC	STRAT
2313.0	[m]	SWC	STRAT
2325.0	[m]	DC	STRAT
2340.0	[m]	DC	STRAT
2341.0	[m]	SWC	STRAT
2352.0	[m]	DC	STRAT
2377.0	[m]	SWC	STRAT
2388.0	[m]	DC	STRAT
2400.0	[m]	DC	STRAT
2415.0	[m]	DC	STRAT
2418.0	[m]	SWC	STRAT
2430.0	[m]	DC	STRAT
2445.0	[m]	DC	STRAT
2460.0	[m]	DC	STRAT
2471.5	[m]	SWC	STRAT
2475.0	[m]	DC	STRAT
2490.0	[m]	DC	STRAT
2505.0	[m]	DC	STRAT
2510.0	[m]	SWC	STRAT
2520.0	[m]	DC	STRAT
2535.0	[m]	DC	STRAT
2550.0	[m]	DC	STRAT
2562.0	[m]	SWC	STRAT
2564.0	[m]	DC	STRAT
2580.0	[m]	DC	STRAT
2591.0	[m]	SWC	STRAT
2595.0	[m]	DC	STRAT
2610.0	[m]	DC	STRAT

2611.0	[m]	SWC	STRAT
2625.0	[m]	DC	STRAT
2640.0	[m]	DC	STRAT
2653.5	[m]	SWC	STRAT
2655.0	[m]	DC	STRAT
2670.0	[m]	DC	STRAT
2678.5	[m]	SWC	STRAT
2685.0	[m]	DC	STRAT
2693.5	[m]	SWC	STRAT
2710.5	[m]	SWC	STRAT
2715.0	[m]	DC	STRAT
2730.0	[m]	DC	STRAT
2734.5	[m]	SWC	STRAT
2742.3	[m]	SWC	STRAT
2753.0	[m]	SWC	STRAT
2760.0	[m]	DC	STRAT
2775.0	[m]	SWC	STRAT
2788.0	[m]	SWC	STRAT
2790.0	[m]	DC	STRAT
2805.0	[m]	DC	STRAT
2807.0	[m]	SWC	STRAT
2817.5	[m]	SWC	STRAT
2820.0	[m]	DC	STRAT
2849.0	[m]	SWC	STRAT
2850.0	[m]	DC	STRAT
2857.0	[m]	SWC	STRAT
2865.0	[m]	DC	STRAT
2880.0	[m]	DC	STRAT
2892.0	[m]	DC	STRAT

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
253	NORDLAND GP
1063	HORDALAND GP
1063	BRYGGE FM
1611	ROGALAND GP
1611	TARE FM
1673	TANG FM

1745	SHETLAND GP
1745	NISE FM
1817	CROMER KNOLL GP
1817	LYR FM
1834	VIKING GP
1834	SPEKK FM
1843	MELKE FM
1856	FANGST GP
1856	GARN FM
1986	NOT FM
2019	ILE FM
2091	BÅT GP
2091	ROR FM
2244	TILJE FM
2457	ÅRE FM
2848	RED BEDS (INFORMAL)

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
444	pdf	0.59

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
444_1	pdf	0.38
444_2	pdf	1.29
444_3	pdf	6.08

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
444_01_WDSS_General_Information	pdf	0.21
444_02_WDSS_completion_log	pdf	0.27

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
444_01_CompletionReport_and_Completionlog	pdf	18.37

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL VDL CCL GR	253	1333
CBL VDL CCL GR	253	1872
CST	1745	1836
CST	1836	1870
CST	1900	2341
CST	2356	2859
ISF BHC MSFL SP NGT	1872	2867
ISF LSS MSFL SP GR	253	1887
ISF LSS MSFL SP NGT	2801	2867
LDL CNL GR	456	2863
LDL GR	313	458
LDL GR	313	458
MWD - GR RES DIR	253	1870
NGT	1872	2867
NGT	2801	2864
RFT GR	1858	1872
SHDT GR	1570	2864
VSP	1063	2863

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	314.0	36	316.0	0.00	LOT
SURF.COND.	20	456.0	26	463.0	1.30	LOT
INTERM.	13 3/8	1334.0	17 1/2	1349.0	1.75	LOT
INTERM.	9 5/8	1873.0	12 1/4	1888.0	1.68	LOT
OPEN HOLE		2895.0	8 1/2	2895.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
954	1.14			WATER BASED	27.09.1984
1233	1.25	13.0	8.0	WATER BASED	28.09.1984
1347	1.28	19.0	8.0	WATER BASED	01.10.1984
1352	1.34	28.0	8.0	WATER BASED	04.10.1984
1600	1.43	24.0	6.0	WATER BASED	04.10.1984
1872	1.43	21.0	6.7	WATER BASED	15.10.1984
1880	1.10	11.0	5.0	WATER BASED	15.10.1984
2895	1.10	18.0	5.8	WATER BASED	19.10.1984

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]
444_Formation_pressure_(Formasjonstrykk)	pdf	0.27