



Generell informasjon

Brønnbane navn	31/3-3
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	31/3-3
Seismisk lokalisering	ST 8007 - 347 SP. 781
Utvinningstillatelse	085
Boreoperatør	Saga Petroleum ASA
Boretillatelse	438-L
Boreinnretning	TREASURE SAGA
Boredager	37
Borestart	13.10.1984
Boreslutt	18.11.1984
Frigitt dato	18.11.1986
Publiseringsdato	15.12.2006
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	26.0
Vanndybde ved midlere havflate [m]	332.0
Totalt målt dybde (MD) [m RKB]	2573.0
Totalt vertikalt dybde (TVD) [m RKB]	2571.0
Maks inklinasjon [°]	3.7
Temperatur ved bunn av brønnbanen [°C]	79
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	STATFJORD GP
Geodetisk datum	ED50
NS grader	60° 50' 2.29" N
ØV grader	3° 50' 38.16" E
NS UTM [m]	6744748.95
ØV UTM [m]	545884.32
UTM sone	31
NPDID for brønnbanen	447



Brønnhistorie

General

The wildcat well 31/3-3 was drilled on a structure east of the Troll Field. The structure, which is deeper than the oil/water contact proved in the Troll Field area, is defined on the Top Sognefjord Formation and situated on a rotated fault block compartment dipping gently to the east. The main objective of the well was to test the Late Jurassic sandstones, which were gas and oil bearing in the Troll Field. A possible stratigraphic trap in the Early Cretaceous sequence and small closures of the Brent Group and Statfjord Formation were secondary targets.

Operations and results

Well 31/3-3 was spudded with the semi-submersible installation Treasure Saga on 13 October 1984 and drilled to TD at 2573 m in the Early Jurassic Statfjord Formation. No major problems occurred due to drilling. The well was drilled using spud mud down to 406 m, with KCl/polymer from 406 m to 1630 m, with CaCO₃ mud from 1630 m to 2112 m, and with gel/lignosulphonate from 2112 m to TD.

No reservoir rock was encountered in the Early Cretaceous. In the Jurassic a 152 m thick sequence of Sognefjord Formation consisting of several stacked coarsening upward sand sequences was penetrated. The Statfjord Formation consisted of alternating sandstones and claystones with traces of limestone, mica and coal fragments. The only trace of hydrocarbons in the well were two very weak shows, possibly dope contamination, in cores no 3 and 5 in the Sognefjord Formation. Seven conventional cores were cut, one in the lower part of the Cromer Knoll Group and the last six in the Late Jurassic Sognefjord and Heather Formations. Totally 168.5 m were cut with a recovery of 166.5 m (99%). No fluid samples were taken.

The well was permanently abandoned on 18 November 1984 as a dry well.

Testing

No drill stem test was performed

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
490.00	2573.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	1580.0	1596.0	[m]



2	1764.0	1782.0	[m]
3	1782.0	1810.0	[m]
4	1810.0	1837.5	[m]
5	1837.5	1858.9	[m]
6	1861.0	1888.5	[m]
7	1888.5	1916.5	[m]

Total kjerneprøve lengde [m]	166.4
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



1580-1585m



1585-1590m



1590-1595m



1595-1596m



1764-1769m



1769-1774m



1774-1779m



1779-1782m



1782-1787m



1787-1792m



1792-1797m



1797-1802m



1802-1807m



1807-1810m



1810-1815m



1815-1820m



1820-1825m



1825-1830m



1830-1835m



1835-1837m



1837-1842m



1842-1847m



1847-1852m



1852-1857m



1857-1858m



1861-1866m



1866-1871m



1871-1876m



1876-1881m



1881-1886m



1886-1888m



1888-1893m



1893-1898m



1898-1903m



1903-1908m



1908-1913m



1913-1916m

Palynologiske preparater i Sjøkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
1765.0	[m]	C	OD
1766.0	[m]	C	OD
1768.0	[m]	C	OD
1770.0	[m]	C	OD
1775.0	[m]	C	OD
1780.0	[m]	C	OD
1785.0	[m]	C	OD
1786.0	[m]	C	OD
1800.0	[m]	C	OD



1816.0	[m]	C	OD
1825.5	[m]	C	OD
1830.0	[m]	C	OD
1837.1	[m]	C	OD
1837.5	[m]	C	OD
1839.5	[m]	C	OD
1841.5	[m]	C	OD
1843.5	[m]	C	OD
1845.0	[m]	C	OD
1849.5	[m]	C	OD
1854.5	[m]	C	OD
1856.0	[m]	C	OD
1856.5	[m]	C	OD
1863.2	[m]	C	OD
1866.1	[m]	C	OD
1879.0	[m]	C	OD
1884.0	[m]	C	OD
1885.0	[m]	C	OD
1895.0	[m]	C	OD
1896.0	[m]	C	OD
1908.0	[m]	C	OD
1910.0	[m]	C	OD

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
358	NORDLAND GP
540	HORDALAND GP
826	ROGALAND GP
826	BALDER FM
914	SELE FM
1085	LISTA FM
1230	SHETLAND GP
1378	CROMER KNOLL GP
1633	VIKING GP
1633	DRAUPNE FM
1747	HEATHER FM
1753	SOGNEFJORD FM
1905	HEATHER FM



1931	FENSFJORD FM
2077	KROSSFJORD FM
2134	HEATHER FM
2163	BRENT GP
2209	DUNLIN GP
2209	DRAKE FM
2293	AMUNDSEN FM
2306	JOHANSEN FM
2432	STATEFJORD GP

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
447 1	pdf	0.18
447 2	pdf	0.39
447 3	pdf	3.49

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
447 01 WDSS General Information	pdf	0.22
447 02 WDSS completion log	pdf	0.24

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
447 01 31 3 3 Completion Report and Completion log	pdf	13.78
447 02 31 3 3 Final well report	pdf	6.05
447 03 31 3 3 Well programme	pdf	2.78
447 04 31 3 3 Well prognosis	pdf	0.16
447 05 31 3 3 Site Survey	pdf	0.84
447 06 31 3 3 Display panel	pdf	1.76
447 07 31 3 3 Core gamma surface log	pdf	0.27
447 08 31 3 3 Routine core analysis	pdf	4.24





Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CALIPER	566	632
CDL CNL GR	804	1632
CDL CNL GR	1614	2571
DIFL LSBHC GR	481	815
DIFL LSBHC GR	804	1632
DIFL LSBHC GR	1614	2573
DIPLOG	1622	2573
FMT	1775	2493
GR	332	481
SPECTRALOG	1614	2566
SWC	1580	1596
SWC	1764	1916
VSP	710	2570

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	481.0	36	486.0	0.00	LOT
SURF.COND.	20	805.0	26	1143.0	1.60	LOT
INTERM.	13 3/8	1616.0	17 1/2	1764.0	1.54	LOT
OPEN HOLE		2573.0	12 1/4	2573.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
760	1.10	20.0	34.0	WATER BASED	22.10.1984
820	1.14	14.0	26.0	WATER BASED	22.10.1984
1358	1.20	16.0	24.0	WATER BASED	22.10.1984
1764	1.18	29.0	44.0	WATER BASED	31.10.1984
1782	1.18	26.0	39.0	WATER BASED	01.11.1984
1830	1.18	26.0	38.0	WATER BASED	02.11.1984
1917	1.20	26.0	41.0	WATER BASED	05.11.1984
2257	1.16	24.0	13.0	WATER BASED	08.11.1984
2257	1.16	25.0	14.0	WATER BASED	09.11.1984



2257	1.16	25.0	14.0	WATER BASED	09.11.1984
2436	1.16	29.0	14.0	WATER BASED	12.11.1984
2558	1.16	30.0	15.0	WATER BASED	13.11.1984

Tynnslip i Søkeldirektoratet

Dybde	Enhet
1971.00	[m]
1907.00	[m]
1907.00	[m]
1904.00	[m]
1902.00	[m]
1901.00	[m]
1900.00	[m]
1896.00	[m]
1892.00	[m]
1892.00	[m]
1891.00	[m]
1889.00	[m]
1887.00	[m]
1886.00	[m]
1877.00	[m]
1872.00	[m]
1870.00	[m]
1870.00	[m]
1869.00	[m]
1856.00	[m]
1845.00	[m]
1843.00	[m]
1841.00	[m]