



Generell informasjon

Brønnbane navn	33/9-10
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	33/9-10
Seismisk lokalisering	
Utvinningstillatelse	037
Boreoperatør	Mobil Exploration Norway INC
Boretillatelse	193-L
Boreinnretning	FERNSTAR
Boredager	66
Borestart	08.04.1978
Boreslutt	12.06.1978
Frigitt dato	12.06.1980
Publiseringsdato	01.07.2004
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	26.0
Vanndybde ved midlere havflate [m]	162.0
Totalt målt dybde (MD) [m RKB]	3715.0
Totalt vertikalt dybde (TVD) [m RKB]	3693.0
Maks inklinasjon [°]	21.15
Temperatur ved bunn av brønnbanen [°C]	112
Eldste penetrerte alder	LATE TRIASSIC
Eldste penetrerte formasjon	STATFJORD GP
Geodetisk datum	ED50
NS grader	61° 28' 0.21" N
ØV grader	1° 46' 29.63" E
NS UTM [m]	6815550.94
ØV UTM [m]	434713.13
UTM sone	31
NPDID for brønnbanen	415



Brønnhistorie

General

Wildcat well 33/9-10 is located on the Tampen Spur North of the Murchinson Field. The Middle Jurassic Brent sand was the primary objective with the Early Jurassic Statfjord sand as a secondary objective. Planned TD was 3695 m, interpreted to be 30 m into the Statfjord Formation.

Operations and results

Wildcat well 33/9-10 was spudded with the semi-submersible installation Fernstar on 7 April 1978 and drilled to TD at 3715 m in the Early Jurassic Statfjord Formation. The well was drilled with Spud down to 516 m, with seawater/FCL polymer mud from 516 to 1820 m, with lignosulphonate/fresh water from 1820 to 3491 m, and with Qbroxin/CC-16/fresh water from 3491 m to TD. Spots of diesel and protectomagic (water or diesel-dispersed asphalt) was added to the mud, beginning at 1820 m. From 1820 m, oil in the mud was reported at contents varying between 3% and 20%.

The electric log pick of the top of the Early Cretaceous Cromer Knoll Group was taken at 3113 m, giving an Early Cretaceous thickness of 146.8 m. The Early Cretaceous consisted of 20.3 m of Barremian limestone at the base with red marl interbedded with the overlying claystone section.

Top Late Jurassic Viking Group was picked at 3259.8 m, 15.7 m high to prognosis. The thickness was 88.2 m of which the upper 69.2 m was the Draupne Formation and the lower 19 m was the Heather Formation. The lithology of the Viking Group was grey to dark grey, silty claystone.

The primary objective Brent Group was penetrated at 3348 m, 37.5 m high to prognosis. The sandstone was argillaceous, medium grained, and had fair to poor porosity. Of the expected 140 m of Brent Group, only 67.5 m was found. Of this 37 m was net sand. The Brent Group was water bearing. No shows were seen in the ditch samples. One core was cut from 3358 m to 3376 m. Very poor shows were observed in the core, but electric logs and Schlumberger Coriband analysis indicated the Brent Formation to be water wet. The shows in the core most likely came from flushing of the core with diesel and protectomagic mud. No residual oil was measured in the core plugs.

Top Dunlin Group was found at 3415.5 m, 110 m high to prognosis. It was 84.5 m thick versus the prognosed 140 m.

The secondary objective Statfjord Formation came in at 3500 m, 165.5 m high to prognosis. The Statfjord sands were tight with calcareous cement. Electric logs and lack of shows proved the formation to be water wet. Drilling went on in order to reach and identify the seismic reflector originally mapped as the Near Top Statfjord event. Twenty meters net of very calcareous sandstone stringers between 3635 m and TD appeared to account for this reflector. The well was permanently abandoned as a dry well on 12 June 1978.

Testing

No drill stem test was performed.



Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
280.00	3713.00

Borekaks tilgjengelig for prøvetaking?	NO
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3358.0	3376.0	[m]

Total kjerneprøve lengde [m]	18.0
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



3358-3360m



3360-3363m



3363-3366m



3366-3369m



3368-3371m



3371-3374m



3374-3376m

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
188	NORDLAND GP
975	UTSIRA FM
1085	HORDALAND GP
1666	ROGALAND GP



1666	BALDER FM
1780	LISTA FM
1895	SHETLAND GP
3113	CROMER KNOLL GP
3260	VIKING GP
3260	DRAUPNE FM
3329	HEATHER FM
3348	BRENT GP
3416	DUNLIN GP
3416	DRAKE FM
3500	STATFJORD GP

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
415	pdf	0.51

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
415 1	pdf	1.68

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
415 01 WDSS General Information	pdf	0.20
415 03 WDSS lithlog	pdf	0.07

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
415 1 Completion Report and Completion I og	pdf	3.02





Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
DLL MSFL	3230	3700
FDC CNL	1858	3700
HDT	1858	3700
ISF SONIC	246	3700
VSP	300	3690

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	262.0	36	265.0	0.00	LOT
SURF.COND.	20	499.0	24	516.0	0.00	LOT
INTERM.	13 3/8	1321.0	17 1/2	1330.0	0.00	LOT
INTERM.	9 5/8	1860.0	12 1/4	1870.0	0.00	LOT
OPEN HOLE		3715.0	8 1/2	3715.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
193	1.31			water based	
254	1.32			water based	
440	1.43			water based	
1800	1.49			water based	
2122	1.34			water based	
2866	1.36			water based	
3375	1.55			water based	
3715	1.52			water based	