



Generell informasjon

Brønnbane navn	33/9-18 A
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	33/9-18
Seismisk lokalisering	CTM 94-3D: INLINE 1127 & CROSSLINE 492
Utvinningstillatelse	037
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	800-L
Boreinnretning	DEEPSEA BERGEN
Boredager	35
Borestart	21.12.1994
Boreslutt	24.01.1995
Frigitt dato	24.01.1997
Publiseringsdato	01.07.2004
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	23.0
Vanndybde ved midlere havflate [m]	145.0
Totalt målt dybde (MD) [m RKB]	3595.0
Totalt vertikalt dybde (TVD) [m RKB]	3195.0
Temperatur ved bunn av brønnbanen [°C]	100
Eldste penetrerte alder	LATE JURASSIC
Eldste penetrerte formasjon	DRAUPNE FM
Geodetisk datum	ED50
NS grader	61° 15' 40.78" N
ØV grader	1° 56' 7.73" E
NS UTM [m]	6792522.53
ØV UTM [m]	442897.08
UTM sone	31
NPDID for brønnbanen	2455



Brønnhistorie

General

Well 33/9-18 A was drilled to a structure situated east of the Statfjord Field and south-west of the Tordis Field. The main objective of well 33/9-18 A was to test the lithology of a strong seismic amplitude within the same prospect as drilled in well 33/9-18. Well 33/9-18 A is a sidetrack from well 33/9-18.

Operations and results

Exploration well 33/9-18 A was spudded on 21 December 1994 with the semi-submersible installation Deepsea Bergen and drilled from kick-off at 1974 m to TD at 3597 m in the Late Jurassic Draupne Formation. The 12 1/4" hole section was drilled with KC1/PAC POLYMER and KCI mud system to prevent bit balling. No shallow gas was recorded.

Parts of the 12 1/4" section have anomalous resistivity data. The MWD data records from 3070 m to TD are missing, due to washout, lost signal, stuck pipe and MWD tool lost in hole. No wireline logging was performed. 1 core was cut in the Draupne Formation the interval 3397-3404.5 m. No fluid samples were collected. Bit balling was observed several times and a lot of pills were pumped to prevent balling, but minor effects were observed. Dyno-CC-115 (soap) pills showed best results. Drilling from 3145 m to 3397 m had to stop after 49 m due to bad weather. Drilling continued after 7 days stop and the flow rate was increased to maintain a pressure of 280 bar. At TD the actual pressure was nearly 100 bar less than the "theoretical" pressure. This pressure drop was caused by wash out between two drill collars. Got differential stuck at 3512 m when pulling out of the hole. Cut the string at 3382 m to get free. Extra cost related to logistics is estimated to approximately 3.3 mill. NOK. The well was plugged and abandoned after being stuck for 83.5 hrs.

The well has been interpreted to penetrate large slump/slide blocks consisting of the Brent Group, the Dunlin Group and the Statfjord Formation which are deposited within the Draupne Formation. The strong seismic amplitude within the sidetrack 33/9-18 A was penetrated. The amplitude was represented by occasional water wet sandstone and hard shales. No hydrocarbon shows were observed in the well.

The well 33/9-18 A was permanently plugged and abandoned as a dry well on 24 January 1995.

Testing

No drill stem test was performed

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1980.00	3595.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3397.0	3403.1	[m]

Total kjerneprøve lengde [m]	6.1
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



3397-3402m



3402-3403m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
3200.0	[m]	DC	RRI
3215.0	[m]	DC	RRI
3230.0	[m]	DC	RRI
3248.0	[m]	DC	RRI
3260.0	[m]	DC	RRI
3275.0	[m]	DC	RRI
3290.0	[m]	DC	RRI
3310.0	[m]	DC	RRI
3325.0	[m]	DC	RRI
3340.0	[m]	DC	RRI
3355.0	[m]	DC	RRI
3370.0	[m]	DC	RRI
3380.0	[m]	DC	RRI
3385.0	[m]	DC	RRI
3390.0	[m]	DC	RRI
3395.0	[m]	DC	RRI
3409.0	[m]	DC	RRI
3415.0	[m]	DC	RRI



3421.0 [m]	DC	RRI
3427.0 [m]	DC	RRI
3434.0 [m]	DC	RRI
3442.0 [m]	DC	RRI
3448.0 [m]	DC	RRI
3454.0 [m]	DC	RRI
3460.0 [m]	DC	RRI
3466.0 [m]	DC	RRI
3472.0 [m]	DC	RRI
3475.0 [m]	DC	RRI
3481.0 [m]	DC	RRI
3487.0 [m]	DC	RRI
3493.0 [m]	DC	RRI
3499.0 [m]	DC	RRI
3505.0 [m]	DC	RRI
3511.0 [m]	DC	RRI
3517.0 [m]	DC	RRI
3523.0 [m]	DC	RRI
3529.0 [m]	DC	RRI
3533.0 [m]	DC	RRI
3535.0 [m]	DC	RRI
3541.0 [m]	DC	RRI
3547.0 [m]	DC	RRI
3559.0 [m]	DC	RRI
3565.0 [m]	DC	RRI
3571.0 [m]	DC	RRI
3577.0 [m]	DC	RRI
3583.0 [m]	DC	RRI
3589.0 [m]	DC	RRI
3595.0 [m]	DC	RRI

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
168	NORDLAND GP
995	UTSIRA FM
1028	HORDALAND GP
1729	ROGALAND GP
1729	BALDER FM



1767	LISTA FM
1933	SHETLAND GP
1933	JORSALFARE FM
2230	KYRRE FM
2996	TRYGGVASON FM
3190	CROMER KNOLL GP
3190	MIME FM
3200	VIKING GP
3200	DRAUPNE FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
2455	pdf	0.10

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
2455_33_9_18_A_COMPLETION_REPORT_AND_LOG	pdf	16.10

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
MWD - RGD	1974	3597

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	229.0	36	230.0	0.00	LOT
INTERM.	20	753.0	26	755.0	1.49	LOT
INTERM.	13 3/8	1951.0	17 1/2	1953.0	1.96	LOT
OPEN HOLE		3595.0	12 1/4	3595.0	0.00	LOT





Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
200	1.03	29.0	18.5	WATER BASED	25.01.1995
500	1.49	29.0	18.5	WATER BASED	23.01.1995
500	1.49	29.0	18.5	WATER BASED	23.01.1995
1900	1.55	32.0	11.5	WATER BASED	23.12.1994
2060	1.62	45.0	20.0	WATER BASED	23.12.1994
2235	1.62	45.0	20.0	WATER BASED	28.12.1994
2285	1.62	45.0	20.0	WATER BASED	28.12.1994
2315	1.60	45.0	20.0	WATER BASED	28.12.1994
2403	1.60	45.0	20.0	WATER BASED	28.12.1994
2549	1.60	45.0	20.0	WATER BASED	28.12.1994
2621	1.62	45.0	20.0	WATER BASED	28.12.1994
2795	1.63	45.0	20.0	WATER BASED	29.12.1994
2992	1.63	32.0	15.0	WATER BASED	02.01.1995
3145	1.63	34.0	16.5	WATER BASED	03.01.1995
3194	1.63	30.0	13.0	WATER BASED	05.01.1995
3194	1.63	32.0	15.0	WATER BASED	03.01.1995
3194	1.63	30.0	13.0	WATER BASED	03.01.1995
3194	1.63	30.0	13.0	WATER BASED	03.01.1995
3194	1.63	30.0	16.0	WATER BASED	05.01.1995
3194	1.63	30.0	15.5	WATER BASED	10.01.1995
3194	1.63	31.0	15.5	WATER BASED	10.01.1995
3194	1.63	31.0	15.5	WATER BASED	10.01.1995
3200	1.63	32.0	15.0	WATER BASED	10.01.1995
3200	1.63	30.0	18.0	WATER BASED	10.01.1995
3200	1.63	30.0	15.5	WATER BASED	12.01.1995
3200	1.63	32.0	17.0	WATER BASED	12.01.1995
3200	1.63	31.0	18.0	WATER BASED	13.01.1995
3200	1.63	30.0	16.0	WATER BASED	16.01.1995
3200	1.63	29.0	18.5	WATER BASED	16.01.1995
3200	1.63	29.0	18.5	WATER BASED	23.01.1995
3200	1.63	29.0	18.0	WATER BASED	17.01.1995
3200	1.63	30.0	19.0	WATER BASED	18.01.1995
3200	1.63	29.0	18.5	WATER BASED	20.01.1995
3200	1.63	29.0	18.5	WATER BASED	20.01.1995
3200	1.63	29.0	18.0	WATER BASED	16.01.1995
3252	1.63	32.0	15.0	WATER BASED	10.01.1995



3397	1.63	30.0	18.0	WATER BASED	10.01.1995
3405	1.63	30.0	15.5	WATER BASED	12.01.1995
3405	1.63	32.0	17.0	WATER BASED	12.01.1995
3457	1.63	31.0	18.0	WATER BASED	13.01.1995
3553	1.63	30.0	16.0	WATER BASED	16.01.1995
3597	1.63	29.0	18.5	WATER BASED	16.01.1995
3597	1.63	29.0	18.0	WATER BASED	16.01.1995
3597	1.63	29.0	18.0	WATER BASED	17.01.1995
3597	1.63	29.0	18.5	WATER BASED	23.01.1995
3597	1.63	29.0	18.5	WATER BASED	20.01.1995
3597	1.63	29.0	18.5	WATER BASED	20.01.1995
3597	1.63	30.0	19.0	WATER BASED	18.01.1995

Tynnslip i Søkeldirektoratet

Dybde	Enhet
3397.10	[m]
3402.02	[m]
3402.85	[m]