



Generell informasjon

Brønnbane navn	15/12-3
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	15/12-3
Seismisk lokalisering	SP.1720 & line 511-324
Utvinningstillatelse	038
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	252-L
Boreinnretning	NORDRAUG
Boredager	185
Borestart	21.06.1980
Boreslutt	22.12.1980
Frigitt dato	22.12.1982
Publiseringsdato	15.08.2008
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	86.0
Totalt målt dybde (MD) [m RKB]	4450.0
Totalt vertikalt dybde (TVD) [m RKB]	4449.0
Maks inklinasjon [°]	3
Temperatur ved bunn av brønnbanen [°C]	136
Eldste penetrerte alder	EARLY PERMIAN
Eldste penetrerte formasjon	ROTLIEGEND GP
Geodetisk datum	ED50
NS grader	58° 14' 36.59" N
ØV grader	1° 52' 45.67" E
NS UTM [m]	6456514.34
ØV UTM [m]	434208.30
UTM sone	31
NPDID for brønnbanen	199

**Brønnhistorie**

Well 15/12-3 is located in the South Viking Graben in the North Sea, south of the Sleipner Øst Field. The primary objective of the well was to test possible hydrocarbons in late Jurassic sand. This sand was proven in 15/12-2. Secondary objectives were Danian and Rotliegendes sands. Minor Danian sand beds were proved in 15/12-1, and further west on the UK side oil was produced from Palaeocene sands on the Maureen Field. The well should be drilled through ca 1100 m of prognosed salt and 100 m into the Rotliegendes or to a total depth of 4900 m.

Operations and results

Well 15/12-3 was spudded with the semi-submersible installation Nordraug on 21 June 1980 and drilled to TD at 4450 m in Early Permian Rotliegendes sandstone. After setting the 13 3/8" casing the rig crew went on strike from 20 July to 14 August. While drilling 12 1/4" hole with salt saturated mud the bottom hole assembly got stuck at 2715 m when pulling out of the hole. Eleven days were spent working on the fish before the hole was eventually sidetracked from 2488 m. The well was drilled with seawater/bentonite/lignosulphonate mud down to 2185 m, with salt saturated polymer mud from 2185 m to 3361 m, and with oil based mud (Oilfaze) from 3361 m to TD.

The primary objective, Jurassic sandstone, was only a few meter thick. The sand was found deeper and was thinner than expected. The well proved no sand in Palaeocene. The other secondary objective, Rotliegendes sandstone, was highly interbedded with shale. None of the sands had shows of hydrocarbons.

One core was cut from 3256 to 3263 m in the Zechstein Group above the salt. A second core was cut near final TD in the Rotliegendes Group from 4424 to 4433 m. No wire line fluid samples were taken.

The well was permanently abandoned on 22 December 1980 as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
190.00	4450.00

Borekaks tilgjengelig for prøvetaking?	YES
--	-----

Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3256.0	3263.3	[m]



2	4424.0	4432.9	[m]
---	--------	--------	------

Total kjerneprøve lengde [m]	16.2
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



3256-3258m



4424-4426m



3258-3261m



3261-3263m



3258-3261m



3261-3263m



3256-3258m



4424-4426m



4426-4429m



4429-4432m



4426-4429m



4429-4432m



4432-4433m

Palynologiske preparater i Sjøkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
2902.0	[m]	DC	
2932.0	[m]	DC	
2962.0	[m]	DC	
2992.0	[m]	DC	
3022.0	[m]	DC	
3052.0	[m]	DC	
3082.0	[m]	DC	
3100.0	[m]	DC	
3130.0	[m]	DC	



3160.0 [m]	DC	
3190.0 [m]	DC	
3223.0 [m]	DC	
3229.0 [m]	DC	
3229.0 [m]	DC	OD
3235.0 [m]	DC	
3238.0 [m]	DC	OD
3241.0 [m]	DC	
3247.0 [m]	DC	
3250.0 [m]	DC	OD
3253.0 [m]	DC	
3256.0 [m]	DC	
3256.1 [m]	C	OD
3258.5 [m]	C	OD
3259.1 [m]	C	OD
3263.0 [m]	C	OD
3265.0 [m]	DC	
3269.0 [m]	DC	OD
3270.0 [m]	DC	
3278.0 [m]	DC	OD
3287.0 [m]	DC	OD
4380.0 [m]	DC	
4388.0 [m]	DC	
4391.0 [m]	DC	
4394.0 [m]	DC	
4394.0 [m]	DC	
4397.0 [m]	DC	

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
111	NORDLAND GP
908	UTSIRA FM
1135	UNDIFFERENTIATED
1317	HORDALAND GP
2076	GRID FM
2106	NO FORMAL NAME
2285	ROGALAND GP
2285	BALDER FM



2348	SELE FM
2401	LISTA FM
2472	SHETLAND GP
2472	EKOFISK FM
2479	TOR FM
2675	HOD FM
2752	BLØDØKS FM
2791	CROMER KNOLL GP
2791	RØDBY FM
2830	SOLA FM
2865	ÅSGARD FM
2977	MIME FM
2998	VIKING GP
2998	DRAUPNE FM
3142	HEATHER FM
3238	ZECHSTEIN GP
4392	ROTLIEGEND GP

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
199_1	pdf	0.09
199_2	pdf	2.64
199_3	pdf	0.16

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
199_01_WDSS_General_Information	pdf	0.12
199_02_WDSS_completion_log	pdf	0.26

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
199_01_15_12_3_Completion_report	pdf	6.63
199_01_Core_report	pdf	0.07
199_02_15_12_3_Completionlog	pdf	2.77





199 03 15 12 3 End of well report by NPS	pdf	18.71
199 04 15 12 3 End of well report encl 1	pdf	0.37
199 05 15 12 3 End of well report encl 2	pdf	0.23
199 06 15 12 3 Geologica progn.and drilling progr	pdf	1.81
199 07 15 12 3 Geological progn.and drilling progr encl 1	pdf	1.77
199 08 15 12 3 Geologica progn.and drilling progr encl 2	pdf	0.21
199 09 15 12 3 Appendix drilling programme	pdf	0.48
199 10 15 12 3 Sluttrapport oljebasert boringeslam	pdf	4.86
199 12 15 12 3 Biostrat2 of int.2803-4450m	pdf	11.11
199 13 15 12 3 Biostrat of int.2803-4450m	pdf	11.29
199 14 15 12 3 Core report core no 1-2	pdf	0.45
199 11 15 12 3 Miljomessige effekter	pdf	2.51

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CNL BHC GR	3350	4448
DIL BHC GR	3350	4448
FDC CNL GR	565	4448
HDT WSS CST CBL	2150	3361
ISF BHC GR	171	3361
VELOCITY	325	4450

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	146.0	36	148.0	0.00	LOT
SURF.COND.	20	527.0	26	540.0	1.76	LOT
INTERM.	13 3/8	2126.0	17 1/2	2140.0	1.75	LOT
INTERM.	9 5/8	3326.0	12 1/4	3342.0	1.70	LOT
LINER	7	4425.0	8 1/2	4425.0	0.00	LOT





Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm ³]	Viskositet, slam [mPa.s]	Fløtegrense [Pa]	Type slam	Dato, måling
194	1.06	35.0		waterbased	
515	1.08	35.0		waterbased	
1052	1.05	40.0		waterbased	
1129	1.08	39.0		waterbased	
1690	1.20	47.0		waterbased	
2302	1.22	46.0		waterbased	
2451	1.50	65.0		waterbased	
3950	1.75	52.0		waterbased	
4160	1.80	58.0		waterbased	
4315	1.86	60.0		waterbased	

Tynnslip i Sokkeldirektoratet

Dybde	Enhet
4426.94	[m]
4429.93	[m]
4431.12	[m]