

**General information**

Wellbore name	15/12-3
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	15/12-3
Seismic location	SP.1720 & line 511-324
Production licence	038
Drilling operator	Den norske stats oljeselskap a.s
Drill permit	252-L
Drilling facility	NORDRAUG
Drilling days	185
Entered date	21.06.1980
Completed date	22.12.1980
Release date	22.12.1982
Publication date	15.08.2008
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	25.0
Water depth [m]	86.0
Total depth (MD) [m RKB]	4450.0
Final vertical depth (TVD) [m RKB]	4449.0
Maximum inclination [°]	3
Bottom hole temperature [°C]	136
Oldest penetrated age	EARLY PERMIAN
Oldest penetrated formation	ROTLIEGEND GP
Geodetic datum	ED50
NS degrees	58° 14' 36.59" N
EW degrees	1° 52' 45.67" E
NS UTM [m]	6456514.34
EW UTM [m]	434208.30
UTM zone	31
NPDID wellbore	199



Wellbore history

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 proven 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.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
190.00	4450.00

Cuttings available for sampling?	YES
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Cores at the Norwegian Offshore Directorate

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	3256.0	3263.3	[m]
2	4424.0	4432.9	[m]



Total core sample length [m]	16.2
Cores available for sampling?	YES

Core photos



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

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
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	

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
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	BLODØKS 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

Geochemical information

Document name	Document format	Document size [MB]
199 1	pdf	0.09
199 2	pdf	2.64
199 3	pdf	0.16

Documents - older Norwegian Offshore Directorate WDSS reports and other related documents

Document name	Document format	Document size [MB]
199 01 WDSS General Information	pdf	0.12
199 02 WDSS completion log	pdf	0.26

Documents - reported by the production licence (period for duty of secrecy expired)

Document name	Document format	Document size [MB]
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 bor eslam	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

Logs

Log type	Log top depth [m]	Log bottom depth [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

Casing and leak-off tests

Casing type	Casing diam. [inch]	Casing depth [m]	Hole diam. [inch]	Hole depth [m]	LOT/FIT mud eqv. [g/cm3]	Formation test type
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



**Drilling mud**

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
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	

Thin sections at the Norwegian Offshore Directorate

Depth	Unit
4426.94	[m]
4429.93	[m]
4431.12	[m]