



General information





Wellbore name	30/3-1 R
Type	EXPLORATION
Purpose	APPRAISAL
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Field	HULDRA
Discovery	30/2-1 Huldra
Well name	30/3-1
Seismic location	702 166 SP. 790
Production licence	052
Drilling operator	Den norske stats oljeselskap a.s
Drill permit	215-L2
Drilling facility	DYVI DELTA
Drilling days	85
Entered date	01.02.1982
Completed date	26.04.1982
Plugged and abandon date	26.04.1982
Release date	26.04.1984
Publication date	24.09.2004
Purpose - planned	WILDCAT
Reentry	YES
Reentry activity	DRILLING/PLUGGING
Content	SHOWS
Discovery wellbore	NO
Kelly bushing elevation [m]	27.0
Water depth [m]	138.0
Total depth (MD) [m RKB]	4421.0
Final vertical depth (TVD) [m RKB]	4421.0
Bottom hole temperature [°C]	143
Oldest penetrated age	LATE TRIASSIC
Oldest penetrated formation	STATFJORD GP
Geodetic datum	ED50
NS degrees	60° 54' 15.35" N
EW degrees	2° 40' 11.71" E
NS UTM [m]	6752328.84
EW UTM [m]	482092.77
UTM zone	31
NPDID wellbore	509



Wellbore history

General

Well 30/3-1 R is located just north of the Huldra Discovery. The primary well bore 30/3-1 was drilled in 1979 to a total depth of 3718 m where it was suspended due to an unexpected pressure build-up in the Early Cretaceous. The purpose of well 30/3-1 R was to re-enter the previously abandoned well and continue drilling beneath the 9 5/8" casing shoe to test sandstones in the Brent Group. Secondary objectives were sandstones in the Early Jurassic, Cook and Statfjord formations. Well 30/3-1 R (Phase 2) was planned to be drilled 50 m into the Triassic to a total prognosed depth of 4825 m.

Operations and results

Wildcat well 30/3-1 R was re-entered by the semi-submersible installation Dyvi Delta on 1 January 1982 and drilled to TD at 4421 m (4395 m TVD) in Late Triassic sediments in the Statfjord Formation. After the 9 5/8" casing had been drilled and cleaned out for cement plugs the string was lost in the hole when running in with a new bit. After several attempts to retrieve the fish, the hole was plugged back. A window was cut in the 9 5/8" casing from 3657 m to 3672 m and the hole was kicked off from this depth after problems with lost circulation had been solved. While drilling of the last part of the 8 1/2" hole several incidents of stuck pipe was experienced. This section was plugged back with cement. When displacing the second cement plug, the pipe got stuck. After cutting the 5" drill pipe an influx (gas and water) from the top of the Statfjord Formation was taken. The well built a deviation with maximum of 20.5° at 4165 m. The well was drilled with a Spersene XP 20/Magcogel/nut plug mud system from kick-off to TD.

Hydrocarbons were encountered in thin sandstones interbedded with limestone, coals and claystones over the interval from 3762 m to 3861 m in the Ness, Etive, and Rannoch formations in the Brent group. One core was cut from 3863.6 m to 3875.2 m in the Brent Group. No fluid sample was taken.

The well was permanently abandoned on 26 April 1982 as a dry well with shows.

Testing

No drill stem test was performed

Cores at the Norwegian Offshore Directorate

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	3863.6	3880.0	[m]

Total core sample length [m]	16.4
Cores available for sampling?	YES

Lithostratigraphy



Top depth [mMD RKB]	Lithostrat. unit
165	NORDLAND GP
829	UTSIRA FM
950	HORDALAND GP
1174	SKADE FM
1360	NO FORMAL NAME
1635	GRID FM
1679	NO FORMAL NAME
1929	ROGALAND GP
1929	BALDER FM
1993	SELE FM
2124	VÅLE FM
2160	SHETLAND GP
2160	JORSALFARE FM
2472	KYRRE FM
3410	TRYGGVASON FM
3605	BLODØKS FM
3616	CROMER KNOLL GP
3616	RØDBY FM
3678	SOLA FM
3702	ÅSGARD FM
3729	VIKING GP
3729	DRAUPNE FM
3748	HEATHER FM
3761	BRENT GP
3761	NESS FM
3826	ETIVE FM
3852	RANNOCH FM
3866	OSEBERG FM
3874	DUNLIN GP
3874	DRAKE FM
4081	COOK FM
4162	AMUNDSEN FM
4227	STATFJORD GP

Composite logs





Document name	Document format	Document size [MB]
509	pdf	0.72

Geochemical information

Document name	Document format	Document size [MB]
509_1	pdf	0.92
509_2 Geokjemisk analyse TOC og Rock eval for bronn 30_3_1	pdf	0.07

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

Document name	Document format	Document size [MB]
509_01 WDSS General Information	pdf	0.11
509_02 WDSS completion log	pdf	0.12

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CBL VDL CCL GR	2500	3702
DIP	3648	4316
DLL MSFL GR	3747	4319
FDC CNL GR CAL	3648	4412
HDT	3648	4316
ISF SON MSFL GR	3648	4411
VEL	3750	4337

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	212.0	36	212.0	0.00	LOT
SURF.COND.	20	985.0	26	999.0	1.38	LOT
LINER	16	1804.0	19 1/2	1804.0	1.52	LOT
INTERM.	13 3/8	2423.0	17 1/2	2430.0	1.96	LOT
INTERM.	9 5/8	3709.0	12 1/4	3718.0	2.05	LOT





OPEN HOLE		4421.0	8 1/2	4421.0	0.00	LOT
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Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
3796	1.95	56.0	8.0	seawater	
4000	1.90	64.0	8.0	seawater	
4220	1.90	74.0	12.0	seawater	
4347	1.91	64.0	12.0	seawater	
4421	1.96	68.0	10.0	seawater	

Pressure plots

The pore pressure data is sourced from well logs if no other source is specified. In some wells where pore pressure logs do not exist, information from Drill stem tests and kicks have been used. The data has been reported to the NPD, and further processed and quality controlled by IHS Markit.

Document name	Document format	Document size [MB]
509 Formation pressure (Formasjonstrykk)	pdf	0.22

