General information

Wellbore name	30/11-1
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	30/11-1
Seismic location	LINE 060004 SP.2805
Production licence	035
Drilling operator	A/S Norske Shell
Drill permit	122-L
Drilling facility	OCEAN VOYAGER
Drilling days	38
Entered date	05.02.1975
Completed date	14.03.1975
Release date	14.03.1977
Publication date	10.08.2013
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	24.0
Water depth [m]	114.0
Total depth (MD) [m RKB]	2682.0
Maximum inclination [°]	3
Oldest penetrated age	LATE CRETACEOUS
Oldest penetrated formation	SHETLAND GP
Geodetic datum	ED50
NS degrees	60° 0' 22.43'' N
EW degrees	2° 31' 16.2'' E
NS UTM [m]	6652357.26
EW UTM [m]	473295.63
UTM zone	31
NPDID wellbore	396

Wellbore history

General

Well 30/11-1 was drilled in the Fensal Sub-basin between the Frigg area and the Stord Basin in the North Sea. The primary objective was the Eocene Frigg sand, which was gas bearing in the Frigg, East Frigg, Northeast Frigg, Odin and Heimdal fields to the west and south. Secondary objectives were sands of Paleocene age.

Operations and results

Wildcat well 30/11-1 was spudded with the semi-submersible installation Ocean Voyager on 5 February 1975 and drilled to TD at 2682 m in the Late Shetland Group. No significant problem was encountered in the operations. The well was drilled with seawater and viscous slugs down to 469 m, and with a lignosulphonate mud from 469 m to TD.

Four zones of interest were encountered in the well, namely the Frigg sand, Cod sand, Danian sand and Late Cretaceous limestone. All four intervals were interpreted as being water bearing.

From petrophysical analysis the Frigg Formation had 68 m net sand (N/G = 0.9) in the interval 1952.5 to 2026.9 m. The average porosity is 32%. The "Cod sand" (Sele and Hermod formations) from 2211.0 to 2354.3 m had 102 m net sand (N/G = 0.71) with 36% average porosity. The "Danian sand" (Ty Formation) from 2586.8 to 2638.7 m) had 43 m net sand (N/G = 0.83) with 25% average porosity. The Late Cretaceous limestone was described as shaly in parts, but clean limestone intervals had porosities from 4.5 to 7%. Gas readings were low in the well, and the only oil show described was "very, very faint solvent cut fluorescence" in the Frigg Sand.

Two cores were cut in the interval 1978.2 to 1994.9 m. No fluid sample was taken.

The well was permanently abandoned on 14 March 1975 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]
243.84	2682.24

Cuttings available for sampling?	YES

Cores at the Norwegian Offshore Directorate

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	6490.0	6520.0	[ft]
2	6521.0	6534.2	[ft]

Total core sample length [m]	13.2
Cores available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
138	NORDLAND GP
492	UTSIRA FM
1237	HORDALAND GP
1465	GRID FM
1953	FRIGG FM
2155	ROGALAND GP
2155	BALDER FM
2204	SELE FM
2218	HERMOD FM
2354	LISTA FM
2587	TY FM
2643	SHETLAND GP

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

Document name	Document format	Document size [MB]
396_01_WDSS_General_Information	pdf	0.26

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

Document name	Document format	Document size [MB]
396_30_11_1_Completion_log	pdf	1.15
396_30_11_1_Completion_report	pdf	18.30
396_30_11_1_COMPLETION_REPORT_AND_LOG	pdf	11.62

Logs

Log type	Log top depth [m]	Log bottom depth [m]
BHC	460	1237
BHCC	1223	2679

CDM	1223	2682
FDC CNL	1905	2679
GR	137	460
IES	460	2681

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	223.0	36	235.0	0.00	
SURF.COND.	20	460.0	26	469.0	0.00	
INTERM.	13 3/8	1223.0	17 1/2	1234.0	0.00	
OPEN HOLE		2682.0	8 1/2	2682.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
469	1.04			waterbased	
1238	1.13			waterbased	
2682	1.22			waterbased	