

**General information**

Wellbore name	2/7-12
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	2/7-12
Seismic location	
Production licence	018
Drilling operator	Phillips Petroleum Company Norway
Drill permit	208-L
Drilling facility	DYVI BETA
Drilling days	45
Entered date	17.12.1978
Completed date	30.01.1979
Release date	30.01.1981
Publication date	18.01.2007
Purpose - planned	WILDCAT
Reentry	NO
Content	SHOWS
Discovery wellbore	NO
Kelly bushing elevation [m]	38.0
Water depth [m]	75.0
Total depth (MD) [m RKB]	1832.0
Bottom hole temperature [°C]	88
Oldest penetrated age	LATE PERMIAN
Oldest penetrated formation	ZECHSTEIN GP
Geodetic datum	ED50
NS degrees	56° 29' 43.76" N
EW degrees	3° 0' 36.37" E
NS UTM [m]	6261367.67
EW UTM [m]	500622.03
UTM zone	31
NPDID wellbore	271

Wellbore history

**General**

Wildcat well 2/7-12 was drilled on an intrusive salt plug in the upper left corner of the block, some km west of the Ekofisk and Edda fields in the Southern Norwegian North Sea. The salt plug is located in the cross-junction between the four blocks 1/6, 1/9, 2/4, and 2/7. The objective was to establish if Danian - Late Cretaceous carbonates were present on the salt plug. If present the carbonates would be evaluated.

Operations and results

Well 2/7-12 was spudded with the semi-submersible installation Dyvi Beta on 17 December 1978 and drilled to TD at 1832 m in the Late Permian Zechstein Group. The well was drilled with salt-based mud, possibly with some diesel addition according to geochemical analyses, in the interval from 1402 m to TD. Several thin gas charged siltstone stringers were penetrated between 433 m and 835 m.

The salt (Permian Zechstein Group) was encountered at 1686 m. The well did not encounter any Danian -Late Cretaceous carbonates on top of the salt. Oil shows (fluorescence, cut, stain or combinations) were recorded on SWC's and cuttings at 114.5 - 445 m (sandstone), 731 - 810 m (claystone with trace of fine sandstone), and scattered on claystone, shale, and limestone from 1469 m to 1679 m. The resistivity log indicated a probable hydrocarbon zone from 416 to 433 m in a shallow sand. It was not possible to calculate reliable porosity from the sonic log, but a DST confirmed minor amounts of oil.

Ninety sidewall cores were attempted and seventy-one were recovered from the overall interval 1417.3 to 173.7 m. No conventional cores were cut and no wire line fluid samples taken in this well.

The well was permanently abandoned on 30 January 1979 as a dry well with shows.

Testing

One drill stem test was performed through perforations at 416.7 - 425.8 m. The tool was open 22 minutes; shut in one hour and 58 minutes, open 3 hours and shut in 3 hours and 58 minutes. No gas came to surface. Reversed out and recovered approximately 5 barrels of fluid, consisting of 31% sediments, 43% water (2.15 barrels) and 26% oil - oil emulsion (1.3 barrels).

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
341.00	1831.00

Cuttings available for sampling?	NO
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Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
110	NORDLAND GP
1382	HORDALAND GP
1679	ROGALAND GP

1686 [ZECHSTEIN GP](#)**Geochemical information**

Document name	Document format	Document size [MB]
271_1	pdf	0.79

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

Document name	Document format	Document size [MB]
271_01_WDSS_General_Information	pdf	0.11

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

Document name	Document format	Document size [MB]
271_01_2_7_12_Completion_Report_and_Completion_log	pdf	12.93

Drill stem tests (DST)

Test number	From depth MD [m]	To depth MD [m]	Choke size [mm]
1.0	417	426	25.4

Test number	Final shut-in pressure [MPa]	Final flow pressure [MPa]	Bottom hole pressure [MPa]	Downhole temperature [°C]
1.0				

Test number	Oil [Sm ³ /day]	Gas [Sm ³ /day]	Oil density [g/cm ³]	Gas grav. rel.air	GOR [m ³ /m ³]
1.0					

Logs





Log type	Log top depth [m]	Log bottom depth [m]
DLL MSFL GR SP CAL	1402	1835
FDC CNL GR CAL	1402	1835
HDT	1402	1835
ISF SONIC GR SP	332	1835
VELOCITY	332	1835

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	175.0	36	175.0	0.00	LOT
SURF.COND.	20	335.0	26	341.0	1.63	LOT
INTERM.	13 3/8	1402.0	17 1/2	1412.0	1.66	LOT
OPEN HOLE		1832.0	12 1/4	1832.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
439	1.08	50.0		waterbased	
980	1.28	48.0		waterbased	
1412	1.55	59.0		waterbased	
1746	1.78	59.0		waterbased	
1882	1.78	61.0		waterbased	