

**General information**

Wellbore name	25/12-1
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	25/12-1
Seismic location	LINE SC 59 SP.2145
Production licence	010
Drilling operator	A/S Norske Shell
Drill permit	95-L
Drilling facility	SEDCO 135 G
Drilling days	82
Entered date	03.10.1973
Completed date	23.12.1973
Release date	23.12.1975
Publication date	01.12.2004
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	34.0
Water depth [m]	135.0
Total depth (MD) [m RKB]	2865.0
Maximum inclination [°]	2.5
Bottom hole temperature [°C]	93
Oldest penetrated age	DEVONIAN
Oldest penetrated formation	NO GROUP DEFINED
Geodetic datum	ED50
NS degrees	59° 1' 47" N
EW degrees	2° 49' 17.1" E
NS UTM [m]	6543526.23
EW UTM [m]	489748.32
UTM zone	31
NPDID wellbore	374

**Wellbore history**

Well 25/12-1 is located on the Patch Bank Ridge between the Utsira High and the Stord Basin in the North Sea. The well was designed to test Paleocene sand and late Cretaceous chalk prospects (found oil bearing in the adjacent Esso blocks). Additional objectives were the Mesozoic and possibly older sands, which formed part of a monocline, east dipping subcrop below this structure. The well was programmed to investigate the entire sedimentary sequence down to igneous/metamorphic basement, interpreted to occur at approximately 2743 m.

Operations and results

Wildcat well 25/12-1 was spudded with the semi-submersible installation SEDCO 135 G on 3 October 1973 and drilled to TD at 2865 m in rocks of possible Devonian age. The spud was delayed due to rig repairs in Hamburg. This resulted in the well being drilled during the worst of the winter weather. Due to adverse weather and bad anchoring conditions, 14.5 days were spent anchoring the rig. A total of 19.7 days was lost directly due to weather during drilling and abandoning. A further 8.7 days were lost repairing underwater equipment, much of which was also due to weather damage. The well was drilled with seawater and bentonite down to 463 m and with a seawater / lignosulphonate mud from 463 m to TD.

The Oligocene-Eocene sands of the Hordaland Group were water bearing and the Paleocene sands absent. The Chalk section (Tor and Hod formations) showed poor reservoir characteristics and was also water bearing. Below the Late Jurassic shale sequence sands and conglomerates of Middle Jurassic age and older were penetrated. The sands were penetrated in a down dip position on a monoclinial structure rising towards block 25/11. Middle Jurassic (Vestland Group) sands were encountered at 2244 m with porosity up to 30 %, averaging 18 %. Conglomerates were encountered at 2425 m and extended down to 2671 m. From this point down to TD at 2865 m the well drilled a thick water bearing sand sequence. This possible Devonian sandstone ranged in porosity from 17 % - 23 % with an average of 20 %. No hydrocarbon indications were present in the well, with the exception of characteristic gas indications in the Late Jurassic Draupne Formation source rock interval, which at this location was found to be immature. In view of the discouraging results obtained thus far, together with the fact that no seismic configuration was mappable below this depth, it was decided to abandon the well without having reached igneous rock. One core was cut in the ?Devonian conglomerate from 2450 m to 2456 m. No fluid sample was taken

The well was permanently abandoned as dry on 23 November 1973.

Testing

No drill stem test was performed

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
262.13	2865.12

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	8037.1	8055.4	[ft]

Total core sample length [m]	5.6
Cores available for sampling?	YES

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
6800.0	[ft]	DC	
6850.0	[ft]	DC	
6910.0	[ft]	DC	
6960.0	[ft]	DC	
7010.0	[ft]	DC	
7040.0	[ft]	DC	
7080.0	[ft]	DC	
7110.0	[ft]	DC	
7180.0	[ft]	C	
7200.0	[ft]	DC	
7210.0	[ft]	DC	
7260.0	[ft]	DC	
7310.0	[ft]	DC	
7340.0	[ft]	DC	
7360.0	[ft]	DC	
7410.0	[ft]	DC	
7440.0	[ft]	DC	
7460.0	[ft]	DC	
7510.0	[ft]	DC	
7540.0	[ft]	DC	
7550.0	[ft]	DC	
7550.0	[ft]	C	
7580.0	[ft]	DC	
7630.0	[ft]	DC	
7630.0	[ft]	C	
7650.0	[ft]	DC	
7680.0	[ft]	DC	
7680.0	[ft]	C	
7710.0	[ft]	DC	
7720.0	[ft]	DC	APT



7730.0 [ft]	DC	
7750.0 [ft]	DC	APT
7760.0 [ft]	DC	
7760.0 [ft]	C	
7780.0 [ft]	DC	APT
7810.0 [ft]	DC	
7820.0 [ft]	DC	APT
7830.0 [ft]	DC	
7850.0 [ft]	DC	APT
7860.0 [ft]	C	
7860.0 [ft]	DC	
7880.0 [ft]	DC	APT
7900.0 [ft]	DC	APT
7910.0 [ft]	DC	
7920.0 [ft]	DC	APT
7920.0 [ft]	DC	APT
7930.0 [ft]	DC	APT
7940.0 [ft]	DC	
7950.0 [ft]	DC	APT
7960.0 [ft]	DC	
7990.0 [ft]	DC	
8010.0 [ft]	DC	
8060.0 [ft]	C	

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
169	NORDLAND GP
902	HORDALAND GP
1457	ROGALAND GP
1457	BALDER FM
1500	SELE FM
1567	LISTA FM
1597	SHETLAND GP
1597	TOR FM
1707	HOD FM
1908	CROMER KNOLL GP
2187	VIKING GP
2187	DRAUPNE FM



2244	VESTLAND GP
2425	NO GROUP DEFINED

Composite logs

Document name	Document format	Document size [MB]
374	pdf	0.34

Geochemical information

Document name	Document format	Document size [MB]
374_1	pdf	0.41
374_1 Source rock and DOM evaluation in well 25_12_1	pdf	3.06

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

Document name	Document format	Document size [MB]
374_01 WDSS General Information	pdf	0.29

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

Document name	Document format	Document size [MB]
374_1 Completion Report	pdf	0.36
374_2 Composite log	pdf	1.81
374_3 Source rock and DOM evaluation in well 25_12_1	pdf	3.06

Logs

Log type	Log top depth [m]	Log bottom depth [m]
BHC GR	136	456
BHC GR	1357	2864
CNL FDC	1357	2864





CST	1996	2850
HDT	1357	2864
IES	456	2864
VSP	183	2864

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	244.0	36	250.0	0.00	LOT
SURF.COND.	20	456.0	26	460.0	0.00	LOT
INTERM.	13 3/8	1356.0	17 1/2	1360.0	0.00	LOT
INTERM.	9 5/8	1978.0	12 1/4	1980.0	0.00	LOT
OPEN HOLE		2865.0	8 1/2	2865.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
375	1.10	75.0		spud mud	
771	1.10	43.0		spud mud	
1208	1.15	40.0		spud mud	
2472	1.25	53.0		mixed mud	
2864	1.24	52.0		mixed mud	