

**General information**

Wellbore name	25/4-3
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Field	ALVHEIM
Discovery	25/4-3 (Gekko)
Well name	25/4-3
Seismic location	LINE 72-02-05 & SP 135
Production licence	036
Drilling operator	Elf Petroleum Norge AS
Drill permit	119-L
Drilling facility	DEEPSEA DRILLER
Drilling days	41
Entered date	13.10.1974
Completed date	22.11.1974
Release date	22.11.1976
Publication date	15.02.2006
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL/GAS
Discovery wellbore	YES
1st level with HC, age	PALEOCENE
1st level with HC, formation	HEIMDAL FM
Kelly bushing elevation [m]	25.5
Water depth [m]	121.0
Total depth (MD) [m RKB]	2714.0
Bottom hole temperature [°C]	70
Oldest penetrated age	LATE CRETACEOUS
Oldest penetrated formation	JORSALFARE FM
Geodetic datum	ED50
NS degrees	59° 30' 44.2" N
EW degrees	2° 5' 28.9" E
NS UTM [m]	6597601.32
EW UTM [m]	448572.59
UTM zone	31
NPDID wellbore	361



Wellbore history

General

The well 25/4-3 is located SW of the Heimdal field on a Paleocene structure which trends NE-SW and stretches southwards over the block 25/7. The Heimdal sand formation was the main objective with a bright spot phenomenon clearly visible on all the seismic sections through the structure. Seismic mapped vertical closure was assumed to be less than 50 m. Danian sands was the secondary target.

Operations and results

Wildcat well 25/4-3 was spudded with the semi-submersible installation Deepsea Driller on 13 October 1974 and drilled to TD at 2714 m in the Late Cretaceous Jorsalfare Formation.

The tuff marker was encountered at 1974 m, 20 m lower than prognosed. Heimdal sands expected around 2075 m were found at 2125 m. The Heimdal sand contained 3 m gas down to a gas/oil contact at 2128 m and 5 m oil down to a oil/water contact at 2133 m. A 94 m thick sequence of Danian sands (Ty Formation) was encountered at 2550 m overlying Late Cretaceous chalky limestones.

Three cores were cut in the Heimdal sands from 2128 m to 2144 m. Three Formation Interval Tests were conducted on the interval 2125 - 2133 m. FIT 1 and 3 at 2126.2 and 2126.4 m were unsuccessful due to mechanical failures. FIT 2 at 2129.7 recovered oil and mud filtrate.

The well was permanently abandoned on 22 November 1974 as an oil and gas discovery.

Testing

No drill stem test was performed in the well.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
480.00	2710.00

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	2124.0	2128.5	[m]
2	2133.0	2135.0	[m]
3	2135.0	2139.0	[m]



Total core sample length [m]	10.5
Cores available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
147	NORDLAND GP
385	UTSIRA FM
501	UNDIFFERENTIATED
740	HORDALAND GP
843	SKADE FM
1065	NO FORMAL NAME
1285	GRID FM
1363	NO FORMAL NAME
1965	ROGALAND GP
1965	BALDER FM
2016	SELE FM
2063	LISTA FM
2125	HEIMDAL FM
2503	LISTA FM
2550	TY FM
2646	SHETLAND GP
2646	JORSALFARE FM

Composite logs

Document name	Document format	Document size [MB]
361	pdf	0.27

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

Document name	Document format	Document size [MB]
361_01_WDSS_General_Information	pdf	0.25



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

Document name	Document format	Document size [MB]
361_01_25_4_3_Geological_report	pdf	2.57
361_02_25_4_3_Completion_log	pdf	1.28

Logs

Log type	Log top depth [m]	Log bottom depth [m]
DLL MSFL	1960	2713
FDC CNL GR	2086	2158
GR SL	451	1961
GR SL	1960	2713
HDT	1960	2713
IES	451	1961
IES	1960	2713
ML MLL	1960	2713
SNP GR	1960	2713
VELOCITY	451	2710

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	184.0	36	184.0	0.00	LOT
INTERM.	13 3/8	451.5	17 1/2	454.0	0.00	LOT
INTERM.	9 5/8	1957.0	12 1/4	1959.5	0.00	LOT
OPEN HOLE		2714.0	8 1/2	2714.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
605	1.12	65.0	7.0	seawater	
982	1.13	54.0	5.2	seawater	
1750	1.21	50.0	3.8	seawater	
2535	1.23	44.0	3.8	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]
361 Formation pressure (Formasjonstrykk)	pdf	0.22

