

**General information**

Wellbore name	25/4-2
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Field	TYRVING
Discovery	25/4-2 Tyrving
Well name	25/4-2
Seismic location	LINE 681 202.
Production licence	036
Drilling operator	Elf Petroleum Norge AS
Drill permit	98-L
Drilling facility	NEPTUNE 7
Drilling days	50
Entered date	18.10.1973
Completed date	06.12.1973
Release date	06.12.1975
Publication date	15.02.2006
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL
Discovery wellbore	YES
1st level with HC, age	PALEOCENE
1st level with HC, formation	HEIMDAL FM
Kelly bushing elevation [m]	23.0
Water depth [m]	121.0
Total depth (MD) [m RKB]	2775.0
Bottom hole temperature [°C]	57
Oldest penetrated age	LATE CRETACEOUS
Oldest penetrated formation	JORSALFARE FM
Geodetic datum	ED50
NS degrees	59° 35' 46.51" N
EW degrees	2° 18' 51.4" E
NS UTM [m]	6606801.58
EW UTM [m]	461285.45
UTM zone	31
NPDID wellbore	360

**Wellbore history****General**

Well 25/4-2 was drilled ca 6 km ENE of the 25/4-1 Heimdal Discovery well, which encountered 106 m gas-bearing sands gas in the Paleocene Heimdal Formation and several thin sands with gas and oil in the Jurassic and late Triassic. The aim of well 25/4-2 was to explore the Heimdal sand section on a separate closure.

Operations and results

Wildcat well 25/4-2 was spudded with the semi-submersible installation Neptune 7 on 18 October 1973 and drilled to TD at 2775 m in the Late Cretaceous Jorsalfare Formation.

The well penetrated a 405 m thick section with Heimdal Formation sands from 2156.5 m to 2561 m. The reservoir characteristics were quite the same as in well 25/4-1: clean sands with occurrence of only small shale-sand laminae and a few carbonaceous stringers. A nine-meter thick oil column was found from top of the reservoir down to an OWC at 2165.5 m, which was estimated to be 8.5 m higher than in 25/4-1. Other reservoirs were water-wet except a very thin bed of calcareous sand between 2591 and 2597 m (Våle Formation) with some residual oil according to the log interpretation, and where a small methane kick occurred.

One conventional core was cut in the interval 2159 m to 2172 m. Only 2166.6 m to 2167.4 m was recovered. Good shows with bleeding oil was observed on the recovered piece of core. Three Formation Interval Tester samples were taken. FIT 1 and 3 were taken at 2162.5 m. The FIT 1 fluid was transferred under bottom hole pressure for PVT studies. FIT 3 recovered 4.15 litre of oil, 5.75 litre of filtrate + mud and 136 litre of gas. FIT 2 at 2165.8 m produced 9.9 litre of water, filtrate, and mud with some traces of oil.

The well was permanently abandoned on 6 December 1973 and has been classified as a minor oil 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]
495.00	2775.00

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	2171.2	2172.0	[m]



Total core sample length [m]	0.8
Cores available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
144	NORDLAND GP
426	UTSIRA FM
912	HORDALAND GP
983	SKADE FM
1014	NO FORMAL NAME
1125	GRID FM
1200	NO FORMAL NAME
2038	ROGALAND GP
2038	BALDER FM
2073	SELE FM
2117	LISTA FM
2157	HEIMDAL FM
2561	VÅLE FM
2723	LISTA FM
2762	SHETLAND GP
2762	JORSALFARE FM

Composite logs

Document name	Document format	Document size [MB]
360	pdf	0.30

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

Document name	Document format	Document size [MB]
360_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]
360_01_25_4_2_Geological_report	pdf	1.64
360_02_25_4_2_Completion_log	pdf	1.25

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CBL	144	2026
DLT BHC GR	2026	2775
FDC CNT GR	2026	2775
GR	144	2026
HDT	2026	2775
IES	468	2032
IES	2026	2775
IES GR CNL	2126	2315
ML MLL	2026	2775
SL BHC	468	2029
VELOCITY	144	2775

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	181.0	36	181.0	0.00	LOT
SURF.COND.	13 3/8	468.0	17 1/2	475.0	0.00	LOT
INTERM.	9 5/8	2026.0	12 1/4	2080.0	0.00	LOT
OPEN HOLE		2775.0	8 1/2	2775.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
181	1.26	70.0	13.0	seawater	
943	1.26	70.0	5.0	seawater	
1512	1.24	45.0	8.0	seawater	
2283	1.26	48.0	4.2	seawater	





2316	1.27	52.0	12.0	seawater	
2775	1.26	52.0	4.0	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]
360 Formation pressure (Formasjonstrykk)	pdf	0.21

