

**General information**

Wellbore name	25/2-7
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	25/2-7
Seismic location	881 105 SP 315
Production licence	026
Drilling operator	Elf Petroleum Norge AS
Drill permit	321-L
Drilling facility	BORGSTEN DOLPHIN
Drilling days	103
Entered date	01.04.1982
Completed date	12.07.1982
Release date	12.07.1984
Publication date	01.12.2004
Purpose - planned	WILDCAT
Reentry	NO
Content	SHOWS
Discovery wellbore	NO
Kelly bushing elevation [m]	25.0
Water depth [m]	117.0
Total depth (MD) [m RKB]	4110.0
Final vertical depth (TVD) [m RKB]	4110.0
Bottom hole temperature [°C]	133
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	DUNLIN GP
Geodetic datum	ED50
NS degrees	59° 54' 20.41" N
EW degrees	2° 38' 25.87" E
NS UTM [m]	6641115.53
EW UTM [m]	479891.01
UTM zone	31
NPDID wellbore	47

**Wellbore history**

General Block 25/2 is located on the eastern margin of the Viking Graben towards the Bjørgvin Arch. The main targets for well 25/2-7 were the Middle Jurassic Vestland Group and the Early Jurassic Statfjord Formation, which were hydrocarbon bearing in the surrounding wells 25/2-4, 25/2-5 and 25/2-6. In addition possible Late Callovian sands, as in the 25/2 -4 well, constituted a second target.

Operations and result

Wildcat well 25/2-7 was spudded with the semi-submersible installation Borgsten Dolphin on 1 April 1982 and drilled to TD at 4110 m in the Early Jurassic Dunlin Group. Operations took 103 days including 13 days of down time. Four and a half days were lost due to WOW, 5.5 days due to rig compensator damage, and 3 days were lost due to a leaking pack off assembly in the 9 5/8" casing. No Callovian sands (Intra Heather Formation) were encountered. Of the two main objectives the Vestland Group was confirmed and tested as a reservoir. The Vestland Group sandstones were encountered at 3406 m, 174 m higher than prognosed. It was 389 m thick, which was thicker than expected, and it consisted of an upper and a lower interval. Massive beds of sandstone, locally slightly shaly or well cemented with some layers of black shales and coal were encountered in the upper interval from 3406 m to 3628 m. The gross thickness of this interval was 222 m and net thickness approximately 179 m. Porosity as estimated from cores 1 and 2 and logs ranged from 2.5 % to 21 % with an average of 12 %. Permeability in this zone was rather low (0.01 to 15.55 mD). The second zone was penetrated from 3628 m to 3795 m. This interval was composed of shales and sandstones alternating in a regular sequences of 15 to 20 m. Net thickness was approximately 77 m with a porosity ranging from 16 % to 21% based on logs. Some oil shows were recorded on cores 1 and 2 in the upper Vestland sand interval. They must be considered as residual shows as the reservoir is water bearing according to the logs. The RFT results confirmed this, showing a hydrostatic pressure gradient. Sandstones of the Statfjord Formation was not found. A silty/shaley interval at 3870 m, 198 m thick, was thought to be an equivalent of them, according to log correlation with the 25/2-5 well, but this was not supported by biostratigraphic data. Due to lack of seismic information at this level there was no incitement to drill deeper. A yellow direct fluorescence cut was observed on cuttings from this interval from 3917 m to 3920 m. Four conventional cores were cut in the well. Two were cut in the interval 3409 m to 3444 m in the Vestland Group (Sandstone with coals), two were cut in the Dunlin Group. Of the latter one was cut in shale from 3791 m to 3799 m and the other was cut at TD in red brown shale. One RFT fluid sample was taken at 3436.7 m (filtrate, formation water, and traces of oil), another at 3410 m (filtrate and formation water). The well was permanently abandoned on 12 July 1982 as a well with shows.

Testing

No drill stem test was performed

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
220.00	4102.00

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	3409.0	3414.0	[m]
2	3424.5	3443.5	[m]
3	3791.0	3798.0	[m]
4	4101.0	4110.0	[m]

Total core sample length [m]	40.0
Cores available for sampling?	YES

Core photos

3409-3414m



3424-3429m



3429-3434m



3434-3439m



3439-3792m



3792-3797m



3797-4109m



4109-4114m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
2450.0	[m]	SWC	SNEA
2550.0	[m]	SWC	SNEA
2789.0	[m]	SWC	SNEA
2850.0	[m]	SWC	SNEA
3050.0	[m]	SWC	SNEA
3135.0	[m]	SWC	SNEA
3150.0	[m]	SWC	SNEA
3220.0	[m]	SWC	SNEA
3265.0	[m]	SWC	SNEA
3270.0	[m]	SWC	SNEA
3275.0	[m]	SWC	SNEA



3380.0	[m]	SWC	SNEA
3398.0	[m]	SWC	SNEA
3409.0	[m]	C	SPT
3410.0	[m]	C	SPT
3412.0	[m]	C	SNEA
3413.5	[m]	C	SPT
3426.2	[m]	C	SPT
3427.3	[m]	C	SNEA
3428.6	[m]	C	SPT
3430.6	[m]	C	SPT
3431.5	[m]	C	SNEA
3434.3	[m]	C	SPT
3435.0	[m]	C	SNEA
3439.3	[m]	C	SPT
3630.0	[m]	SWC	SNEA
3701.0	[m]	SWC	SNEA
3791.1	[m]	C	SPT
3795.5	[m]	C	SPT
3797.6	[m]	C	SPT
3798.5	[m]	C	SNEA
4101.4	[m]	C	OD
4103.3	[m]	C	OD
4106.2	[m]	C	OD
4109.0	[m]	C	OD

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
141	NORDLAND GP
1049	HORDALAND GP
2023	FRIGG FM
2149	ROGALAND GP
2149	BALDER FM
2189	SELE FM
2194	HEIMDAL FM
2318	LISTA FM
2475	VÅLE FM
2589	SHETLAND GP
3205	CROMER KNOLL GP



3263	VIKING GP
3263	DRAUPNE FM
3275	HEATHER FM
3406	VESTLAND GP
3406	HUGIN FM
3418	SLEIPNER FM
3628	DUNLIN GP

Geochemical information

Document name	Document format	Document size [MB]
47_1	pdf	1.75

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

Document name	Document format	Document size [MB]
47_01_WDSS_General_Information	pdf	0.15
47_02_WDSS_completion_log	pdf	0.23

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

Document name	Document format	Document size [MB]
47_25_2_7_COMPLETION_REPORT_AND_LOG	pdf	9.97

Logs

Log type	Log top depth [m]	Log bottom depth [m]
BGT	727	2182
BHC GR	2198	3180
CBL VDL	300	2198
CBL VDL	1800	3279
CIS	2198	3285
CIS	3279	4084
CST	2162	2183





CST	2345	3280
CST	3380	4080
DLL MSFL	3350	3630
HDT	2198	3285
HDT	3279	4084
ISF GR BHC SL	138	4097
LDT CNL GR CAL	201	4088
NGST	3279	4077
RFT	3408	3591
VELOCITY	138	4097

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	201.0	36	203.0	0.00	LOT
SURF.COND.	20	727.0	26	739.0	1.06	LOT
INTERM.	13 3/8	2194.5	17 1/2	2210.0	1.17	LOT
INTERM.	9 5/8	3275.0	12 1/4	3290.0	1.27	LOT
OPEN HOLE		4110.0	8 1/2	4110.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
210	1.09			spud mud	
540	1.11			water based	
790	1.06			water based	
1640	1.22			water based	
2210	1.17			water based	
2990	1.23			water based	
3240	1.27			water based	
3635	1.21			water based	

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]
47 Formation pressure (Formasjonstrykk)	pdf	0.23

