

**General information**

Wellbore name	15/5-6
Type	EXPLORATION
Purpose	APPRAISAL
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Field	GLITNE
Discovery	15/5-5 Glitne
Well name	15/5-6
Seismic location	NH 9302- INLINE 1242 & CROSSLINE 1636
Production licence	048
Drilling operator	Den norske stats oljeselskap a.s
Drill permit	893-L
Drilling facility	BYFORD DOLPHIN
Drilling days	27
Entered date	20.06.1997
Completed date	16.07.1997
Release date	16.07.1999
Publication date	19.10.2006
Purpose - planned	APPRAISAL
Reentry	NO
Content	OIL
Discovery wellbore	NO
1st level with HC, age	PALEOCENE
1st level with HC, formation	HEIMDAL FM
Kelly bushing elevation [m]	25.0
Water depth [m]	110.0
Total depth (MD) [m RKB]	2725.0
Final vertical depth (TVD) [m RKB]	2725.0
Maximum inclination [°]	2.5
Bottom hole temperature [°C]	61
Oldest penetrated age	PALEOCENE
Oldest penetrated formation	EKOFISK FM
Geodetic datum	ED50
NS degrees	58° 41' 45.95" N
EW degrees	1° 39' 3.59" E
NS UTM [m]	6507148.91



EW UTM [m]	421814.27
UTM zone	31
NPDID wellbore	3113

Wellbore history

General

Well 15/5-6 was drilled on the Glitne field in the North Sea. The main objective was to appraise the 15/5-5 Glitne oil discovery in the Heimdal Formation. The secondary objective was to investigate the oil potential of a separate "Intra Lista Sandstone" which had been mapped as a sequence lapping onto the main Heimdal Formation.

Operations and results

Appraisal well 15/5-6 was spudded with the semi-submersible installation Byford Dolphin on 20 June 1997 and drilled to TD at 2725 m in the Paleocene Ekofisk Formation. The drilling went according to plan. However, problems due to poor hole conditions were encountered during wire line logging at TD. The well was drilled with seawater and hi-vis pills down to 1002 m and with KCl/polymer/glycol mud from 1002 m to TD.

The top of the main Heimdal reservoir was penetrated 39 m TVD deeper than prognosed. The top corresponded seismically to the reflector that pre-drill was interpreted as the top "Intra Lista Sandstone", so the general consensus is now that the reflector is actually the top Heimdal Formation and that the "Intra Lista Sandstone" sequence is not present.

The uppermost part of the Heimdal reservoir was oil bearing, exhibiting good reservoir properties. The OWC was found at 2185 m (2160 m TVD MSL), equivalent to the contact in well 15/5-5. No other parts of well 15/5-6 contained hydrocarbons or shows of hydrocarbons.

One core was cut in the upper part of the Heimdal Formation. No fluid sample was taken in the well.

The well was permanently abandoned on 16 July 1997 as an oil appraisal.

Testing

The well was not production tested due to the limited oil column and no "Intra Lista Sandstone" being present.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1010.00	2724.00

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	2180.0	2202.3	[m]

Total core sample length [m]	22.3
Cores available for sampling?	YES

Core photos

2180-2185m



2185-2190m



2190-2195m



2195-2200m



2200-2202m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
2148.5	[m]	SWC	WESTL
2155.0	[m]	SWC	WESTL
2163.0	[m]	SWC	WESTL
2182.4	[m]	C	WESTL
2182.6	[m]	C	WESTL
2183.7	[m]	C	WESTL
2184.3	[m]	C	WESTL
2185.7	[m]	C	WESTL
2187.6	[m]	C	WESTL
2189.0	[m]	C	WESTL
2190.4	[m]	C	WESTL
2194.6	[m]	C	WESTL
2194.7	[m]	C	WESTL
2202.3	[m]	C	WESTL
2226.0	[m]	SWC	WESTL
2263.0	[m]	SWC	WESTL
2291.0	[m]	SWC	WESTL
2324.0	[m]	SWC	WESTL



2366.0	[m]	SWC	WESTL
2372.0	[m]	SWC	WESTL
2589.0	[m]	SWC	WESTL
2608.0	[m]	SWC	SWC

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
133	NORDLAND GP
728	UTSIRA FM
895	HORDALAND GP
1539	GRID FM
1839	NO FORMAL NAME
2045	ROGALAND GP
2045	BALDER FM
2098	SELE FM
2145	LISTA FM
2172	HEIMDAL FM
2592	VÅLE FM
2616	TY FM
2656	VÅLE FM
2674	SHETLAND GP
2674	EKOFISK FM

Composite logs

Document name	Document format	Document size [MB]
3113	pdf	0.33

Geochemical information

Document name	Document format	Document size [MB]
3113_1	pdf	3.11

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





Document name	Document format	Document size [MB]
3113 15 5 6 COMPLETION LOG	pdf	8.62
3113 15 5 6 COMPLETION REPORT	pdf	48.29

Logs

Log type	Log top depth [m]	Log bottom depth [m]
FMT GR	2171	2217
MAC DLL MLL DSL	724	1675
MAC DLL MLL DSL	995	1812
MAC DLL MLL DSL	995	2722
MWD DPR	200	2725
RCI GR	0	0
VSP	400	2710
XDL CND GR	995	2677
XDL CND GR	1721	2171

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	194.0	36	194.0	0.00	LOT
SURF.COND.	13 3/8	995.0	17 1/2	1002.0	0.00	LOT
OPEN HOLE		2725.0	8 1/2	2725.0	1.78	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
1002	1.03			DUMMY	
1002	1.03			DUMMY	
1887	1.25	18.0		QUADRILL	
1940	1.43	23.0		QUADRILL	
1949	1.43	22.0		QUADRILL	
2204	1.25	15.0		QUADRILL	
2725	1.50	24.0		QUADRILL	
2725	1.43	23.0		QUADRILL	



**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]
3113 Formation pressure (Formasjonstrykk)	pdf	0.22

