General information

Wellbore name	25/2-15 R2
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	25/2-15
Seismic location	FRØY 3D-ROW 426 & COLUMN 636
Production licence	026
Drilling operator	Elf Petroleum Norge AS
Drill permit	722-L3
Drilling facility	WEST VANGUARD
Drilling days	37
Entered date	06.03.1993
Completed date	11.04.1993
Plugged and abondon date	11.04.1993
Release date	11.04.1995
Publication date	15.02.2006
Purpose - planned	WILDCAT
Reentry	YES
Reentry activity	DRILLING/PLUGGING
Content	OIL SHOWS
Discovery wellbore	NO
Kelly bushing elevation [m]	22.0
Water depth [m]	120.0
Total depth (MD) [m RKB]	3942.0
Final vertical depth (TVD) [m RKB]	3941.0
Maximum inclination [°]	3.7
Bottom hole temperature [°C]	125
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	DUNLIN GP
Geodetic datum	ED50
NS degrees	59° 48' 53.54'' N
EW degrees	2° 30' 6.2'' E
NS UTM [m]	6631053.91
EW UTM [m]	472050.87
UTM zone	31
NPDID wellbore	2116

Wellbore history

General

The well is located in the southern part of block 25/2, and was designed to recognize the petroleum potential of the so-called Jurassic Prospect 1. The main objective of the well was to explore the Middle Jurassic Vestland sandstones. An optional objective was Early Jurassic Statfjord sandstones, depending on the petroleum results at the Brent level.

Well 25/2-15 R is a re-entry of well 25/2-15, which was drilled with the semi-submersible installation West Alpha. Due to a fire on the West Alpha installation the well was temporarily abandoned on 13 January 1993, with the drill string in the hole. The 25/2-15 R re-entry retrieved the West Alpha BOP, fished out the lost drill string, performed logging, and set 9 5/8" casing. After that, the hole was again suspended and the installation used, West Vanguard, left to Dusavika for BOP change out. The purpose with the 25/2-15 R2 re-entry was to fulfil the original geological objectives.

Operations and results

Wildcat well 25/2-15 was re-entered for the second time (25/2-15 R2) with the semi-submersible installation West Vanguard on 6 March 1993 and drilled to final TD at 3942 m in the Early Jurassic Dunlin Group. No significant drilling problems were encountered in the borehole. At 3602 m, during coring, a water kick was detected. At TD a discrepancy of 8 m between driller and log depth was recorded, log depth being the deeper.

The Vestland reservoir proved to be water bearing, with residual hydrocarbon shows. Very good shows were observed in Shetland-limestones of Late Campanian - Early Maastrichtian age. However, no RFT pressure measurements/fluid samples were achieved. Both the bio- and lithostratigraphy of the formations in the lowermost part of the well, was initially indistinct. The biostratigraphy study however, made it clear that TD of the well was in a formation belonging to the Dunlin Group, of Late Pliensbachian - Middle Toarcian age. Two cores were cut in the interval 3569 m to 3602 m (3577.5 m to 3610.5 m loggers depth) in the Middle Jurassic Hugin Formation. RFT logging was part of the final logging program of the well and 32 pressure points were taken whereof 11 points provided valid formation pressure. The pressure gradients revealed several pressure regimes in the Vestland Group, with a barrier somewhere between 3700 m to 3808 m (loggers depth) in the Sleipner Formation. Sampling was performed in both runs, however, filtrate filled both chambers in the first run, and a mixture of filtrate and well bore fluid was obtained in the second run.

The well was plugged and permanently abandoned on 11 April 1993 as a well with oil shows.

Testing

No drill stem test was performed in the well.

Cores at the Norwegian Offshore Directorate

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	3569.0	3587.5	[m]

2	3587.5	3601.0	[m]

Total core sample length [m]	32.0
Cores available for sampling?	YES

Core photos


3569-3574m


3574-3579m


3579-3584m


3584-3587m


3587-3592m


3592-3597m


3597-3601m

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
142	NORDLAND GP
427	UTSIRA FM
1063	HORDALAND GP
1322	SKADE FM
1351	NO FORMAL NAME
2184	ROGALAND GP
2184	BALDER FM
2212	HERMOD FM
2381	LISTA FM
2506	TY FM
2587	VÅLE FM
2688	SHETLAND GP
2688	HARDRÅDE FM
2827	KYRRE FM
3193	TRYGGVASON FM

3350	BLODØKS FM
3369	SVARTE FM
3469	VIKING GP
3469	DRAUPNE FM
3475	HEATHER FM
3574	VESTLAND GP
3574	HUGIN FM
3611	SLEIPNER FM
3916	DUNLIN GP

Composite logs

Document name	Document format	Document size [MB]
2116	pdf	0.58

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

Document name	Document format	Document size [MB]
2116_25_2_15_R2_COMPLETION_LOG	PDF	7.71
2116_25_2_15_R2_COMPLETION_REPORT	PDF	71.40

Drill stem tests (DST)

Test number	From depth MD [m]	To depth MD [m]	Choke size [mm]
1.0	3909	3580	0.0

Test number	Final shut-in pressure [MPa]	Final flow pressure [MPa]	Bottom hole pressure [MPa]	Downhole temperature [°C]
1.0	50.000			

Test number	Oil [Sm3/day]	Gas [Sm3/day]	Oil density [g/cm3]	Gas grav. rel.air	GOR [m3/m3]
1.0					

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CBL VDL GR CCL	2000	3500
CST GR	3526	3935
DIL DSI GR AMS	3030	3948
DLL MSFL BHC GR AMS	3445	3945
FMI GR	3500	3949
GRA LDS APS HNGS	3505	3932
HP RPQS RFT GR	3580	3909
HP RPQS RFT GR	3598	3600
HP RPQS RFT GR	3598	3909
LDL CNL NGL AMS	3505	3949
MWD - RGD	3509	3942
VSP	2540	3940

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]
2116_Formation_pressure_(Formasjonstrykk)	pdf	0.23