

General information

Wellbore name	25/2-12 A
Type	EXPLORATION
Purpose	APPRAISAL
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Field	LILLE-FRIGG
Discovery	25/2-4 Lille-Frigg
Well name	25/2-12
Seismic location	EL 8706 - 116 SP 430
Production licence	026
Drilling operator	Elf Petroleum Norge AS
Drill permit	596-L
Drilling facility	WEST VANGUARD
Drilling days	146
Entered date	12.11.1988
Completed date	06.04.1989
Release date	06.04.1991
Publication date	17.12.2003
Purpose - planned	APPRAISAL
Reentry	NO
Content	GAS/CONDENSATE
Discovery wellbore	NO
1st level with HC, age	MIDDLE JURASSIC
1st level with HC, formation	HUGIN FM
Kelly bushing elevation [m]	22.0
Water depth [m]	115.0
Total depth (MD) [m RKB]	3865.0
Final vertical depth (TVD) [m RKB]	3721.0
Maximum inclination [°]	39.7
Bottom hole temperature [°C]	130
Oldest penetrated age	MIDDLE JURASSIC
Oldest penetrated formation	HUGIN FM
Geodetic datum	ED50
NS degrees	59° 57' 48.34" N
EW degrees	2° 23' 40.78" E
NS UTM [m]	6647648.17
EW UTM [m]	466196.96

UTM zone	31
NPDID wellbore	1355

Wellbore history

General

Well 25/2-12 was designed to drill the crest of a NNE-SSW trending westward tilting Jurassic fault block. The northern extension of this structure was drilled in 1975 by well 25/2-4 in a down dip position to well 25/2-12. A 70 m hydrocarbon bearing column was encountered in the Vestland Group. The Statfjord Formation was found water bearing. The main objectives of well 25/2-12 were to appraise and test the hydrocarbon discovery of the Middle Jurassic Vestland Group and to explore the Statfjord Formation up dip from well 25/2-4. Due to an unprognosed fault top Vestland came in 112 m deeper than prognosed in 25/2-12. Hence, side track 25/2-12 A was decided. The main purpose of the sidetrack was to explore the still untested Vestland up dip to the West.

Operations

Appraisal well 25/2-12 A was sidetracked from 3099 m in well 25/12-2 on 17 November 1988 by the semi-submersible rig West Vanguard and drilled to TD at 3865 m in the Middle Jurassic Vestland Group. During drilling the string got stuck at 3692 m. Drilling was stopped at 3714 m, one metre above the Vestland reservoir. Fishing was unsuccessful, and the string was cut at 3485 m. When tripping out the well started to flow. Several days were needed to control the well and finally a cement plug was set from bottom to 3528 m. The cement was dressed to 3612 m and a 7" liner was set from 3600 m to 2927.5 m. After that the cement was drilled out to 3612 m before commencing to drill the 5 7/8" section. During drilling the 5 7/8" phase the string got stuck several times, and finally stuck at 3865 m. While jarring the well started flowing again. After controlling the well a 4 1/2" liner was set from 3863 m to 3562 m. Cement was drilled out to 3830 m before logging. Due to the problems no open hole logs were run in well 25/2-12 A; all logs were run behind casing and no fluid samples were taken. No cores were cut. The sidetracked well 25/2-12 A was completed 6 April 1989 as a gas and condensate appraisal.

Testing

Two DSTs was planned for the sidetrack. The first was performed in the interval 3795 m to 3805 m (3653 m to 3660.6 m TVD MSL). It produced gas/condensate at a maximum rate of 198000 Sm3/day and a GOR of 1780 Sm3/Sm3. The condensate density at stock tank condition was 0.8157 g/cm3, while the gas gravity was 0.713 (air = 1). The DST1 string got stuck. Due to an unsuccessful fishing operation of the DST1 string the second DST had to be abandoned.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
3105.00	3864.00
Cuttings available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
137	NORDLAND GP
416	UTSIRA FM
1020	HORDALAND GP
1073	SKADE FM
1110	NO FORMAL NAME
1210	GRID FM
1255	NO FORMAL NAME
1427	GRID FM
2042	FRIGG FM
2169	ROGALAND GP
2169	BALDER FM
2182	INTRA BALDER FM SS
2286	SELE FM
2300	HERMOD FM
2350	SELE FM
2419	LISTA FM
2492	VÅLE FM
2580	TY FM
2622	SHETLAND GP
2622	HARDRÅDE FM
2850	KYRRE FM
3342	TRYGGVASON FM
3610	BLODØKS FM
3630	SVARTE FM
3708	VIKING GP
3708	DRAUPNE FM
3710	HEATHER FM
3715	VESTLAND GP
3715	HUGIN FM

Composite logs

Document name	Document format	Document size [MB]
1355	pdf	0.49



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NPD Factpages
Wellbore / Exploration

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

Document name	Document format	Document size [MB]
1355_01_WDSS_General_Information	pdf	0.30
1355_02_WDSS_completion_log	pdf	0.17

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

Document name	Document format	Document size [MB]
1355_25_2_12_A_COMPLETION_REPORT_AN_D_LOG	pdf	32.58

Drill stem tests (DST)

Test number	From depth MD [m]	To depth MD [m]	Choke size [mm]
1.0	3805	3795	5.6

Test number	Final shut-in pressure [MPa]	Final flow pressure [MPa]	Bottom hole pressure [MPa]	Downhole temperature [°C]
1.0		37.000		120

Test number	Oil [Sm ³ /day]	Gas [Sm ³ /day]	Oil density [g/cm ³]	Gas grav. rel.air	GOR [m ³ /m ³]
1.0	102	200000	0.810	0.700	1960

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CBL VDL GR CCL	3499	3812
CBL VDL GR CCL DIG.SONIC	2885	3602
CNL GR CCL	3685	3800
FGL-DEN GR	3590	3829
MWD	3100	3400

TDT-P GR CCL	3488	3819
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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	197.0	36	199.0	0.00	LOT
SURF.COND.	20	890.0	26	907.0	1.32	LOT
INTERM.	13 3/8	2848.0	17 1/2	2867.0	1.88	LOT
INTERM.	9 5/8	3099.0	12 1/4	3099.0	1.98	LOT
LINER	7	3603.0	8 1/2	3714.0	2.10	LOT
LINER	4 1/2	3865.0	5 3/8	3865.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
3174	1.81	48.0	14.2	WATER BASED	22.11.1988
3175	1.81	48.0	14.2	WATER BASED	24.11.1988
3177	1.81	48.0	14.2	WATER BASED	25.11.1988
3207	1.81	464.0	15.6	WATER BASED	25.11.1988
3290	1.84	46.0	13.7	WATER BASED	29.11.1988
3311	1.85	41.0	11.7	WATER BASED	29.11.1988
3335	1.85	38.0	11.2	WATER BASED	30.11.1988
3360	1.85	40.0	11.7	WATER BASED	01.12.1988
3386	1.85	40.0	12.2	WATER BASED	02.12.1988
3407	1.85	41.0	12.7	WATER BASED	05.12.1988
3412	1.85	46.0	13.2	WATER BASED	05.12.1988
3415	1.85	50.0	11.2	WATER BASED	05.12.1988
3442	1.85	48.0	12.7	WATER BASED	08.12.1988
3448	1.90	53.0	14.2	WATER BASED	27.12.1988
3449	1.90	51.0	13.7	WATER BASED	27.12.1988
3478	1.90	50.0	12.7	WATER BASED	28.12.1988
3506	1.85	46.0	11.7	WATER BASED	09.12.1988
3507	1.90	51.0	12.7	WATER BASED	29.12.1988
3553	1.90	54.0	14.7	WATER BASED	30.12.1988
3592	1.90	56.0	13.7	WATER BASED	02.01.1989
3655	1.91	50.0	14.2	WATER BASED	02.01.1989
3692	1.91	48.0	12.7	WATER BASED	12.12.1988

3714	1.91	53.0	14.7	WATER BASED	03.01.1989
3799	1.95	51.0	15.6	WATER BASED	08.02.1989
3865	1.95	47.0	14.7	WATER BASED	09.02.1989