



Generell informasjon

Brønnbane navn	25/2-12 A
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	LILLE-FRIGG
Funn	25/2-4 Lille-Frigg
Brønn navn	25/2-12
Seismisk lokalisering	EL 8706 - 116 SP 430
Utvinningstillatelse	026
Boreoperatør	Elf Petroleum Norge AS
Boretillatelse	596-L
Boreinnretning	WEST VANGUARD
Boredager	146
Borestart	12.11.1988
Boreslutt	06.04.1989
Frigitt dato	06.04.1991
Publiseringsdato	17.12.2003
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	GAS/CONDENSATE
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	HUGIN FM
Avstand, boredekk - midlere havflate [m]	22.0
Vanndybde ved midlere havflate [m]	115.0
Totalt målt dybde (MD) [m RKB]	3865.0
Totalt vertikalt dybde (TVD) [m RKB]	3721.0
Maks inklinasjon [°]	39.7
Temperatur ved bunn av brønnbanen [°C]	130
Eldste penetrerte alder	MIDDLE JURASSIC
Eldste penetrerte formasjon	HUGIN FM
Geodetisk datum	ED50
NS grader	59° 57' 48.34" N



ØV grader	2° 23' 40.78" E
NS UTM [m]	6647648.17
ØV UTM [m]	466196.96
UTM sone	31
NPDID for brønnbanen	1355

Brønnhistorie

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.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
3105.00	3864.00



Borekaks tilgjengelig for prøvetaking?	YES
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Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
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

Spleisede logger





Dokument navn	Dokument format	Dokument størrelse [KB]
1355	pdf	0.49

Dokumenter - eldre Sökkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
1355_01_WDSS_General_Information	pdf	0.30
1355_02_WDSS_completion_log	pdf	0.17

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
1355_25_2_12_A_COMPLETION_REPORT_AND_LOG	pdf	32.58

Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsventil størrelse [mm]
1.0	3805	3795	5.6

Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningsstrykk [MPa]	Bunnhullstrykk [MPa]	Borehullstemperatur [°C]
1.0		37.000		120

Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstyngde rel. luft	GOR [m3/m3]
1.0	102	200000	0.810	0.700	1960

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [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

Foringsrør og formasjonsstyrketester

Type utforing	Utforing diam. [tommer]	Utforing dybde [m]	Brønnbane diam. [tommer]	Brønnbane dyp [m]	LOT/FIT slam eqv. [g/cm3]	Type formasjonstest
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

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
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



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 19.5.2024 - 20:16

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