



Generell informasjon

Brønnbane navn	25/2-14
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	FRØY
Funn	25/5-1 Frøy
Brønn navn	25/2-14
Seismisk lokalisering	EL8801 RAD 343 KOLONNE 1100
Utvinningstillatelse	026
Boreoperatør	Elf Petroleum Norge AS
Boretillatelse	666-L
Boreinnretning	WEST VANGUARD
Boredager	65
Borestart	25.01.1991
Boreslutt	30.03.1991
Frigitt dato	30.03.1993
Publiseringsdato	27.02.2004
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	22.0
Vanndybde ved midlere havflate [m]	117.0
Totalt målt dybde (MD) [m RKB]	3623.0
Totalt vertikalt dybde (TVD) [m RKB]	3618.0
Maks inklinasjon [°]	10
Temperatur ved bunn av brønnbanen [°C]	126
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	STATFJORD GP
Geodetisk datum	ED50
NS grader	59° 45' 53.52" N
ØV grader	2° 35' 23.04" E
NS UTM [m]	6625451.08
ØV UTM [m]	476953.03



UTM sone	31
NPDID for brønnbanen	1712

Brønnhistorie

General

Well 25/2-14 was drilled to appraise the Jurassic C prospect on the Frøy Field in the central Viking Graben. The northern part of the Frøy Field appears as a triangle delineated by 3 faults slightly tilted to the WNW, where the eastern limit is the main fault bordering the Frøy structure with a 300 m down-throw, and the northern border is another major fault. It is the western fault trending NNW-SSE, that separates the northern C compartment from the rest of the field, and well 25/2-14 is located in a down flank position. The location was chosen so as not to come too close to the eastern border fault, to leave a limited up dip if any, and to get a full Vestland sequence with the assumed oil water contact within the upper part of the section.

The main objective of the well was to explore the Middle Jurassic sandstones, which are the main reservoir in the Frøy Field. The Lower Jurassic Statfjord sandstones was a secondary target, depending on the results at Vestland level.

Boulders had been observed at 38 and 40 below seabed within 70 metres off location, and a strong reflector at 300 m indicated shallow gas. A hydrostatic regime was expected in throughout the reservoir except for Statfjord, which could be slightly over pressured.

Operations and results

Appraisal well 25/2-14 was spudded with the semi-submersible rig West Vanguard 25 January 1991 and drilled to TD at 3623 m in the Early Jurassic Statfjord Formation. Minor problems were encountered while drilling 8 1/2" pilot hole down to 473 m. Top Vestland Group (Hugin Formation) was as found at the forecasted depth at 3135 m. Top Statfjord Formation was found at 3520.5 m (expected depth was 3537 m). Both reservoirs were found water-wet. There was a general lack of shows throughout the well, the only show was recorded on a 1 m section of core no 4 around 3157 m. Geochemical analyses confirmed a dry well all through. FMT pressure data indicated a separate pressure regime from the Frøy Field. Fifty sidewall cores were attempted and 48 were recovered. Four cores were cut, two in Hordaland shales from 2010 m to 2015 m, and two from the base of the Heather Formation and into the top of the Vestland Group from 3130 m to 3168 m. The well was permanently abandoned on 30 March 1991 as a dry well.

Testing

No drill stem test was performed

Borekaks i Sökkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
210.00	3623.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
3	3130.0	3149.0	[m]
4	3149.0	3167.8	[m]

Total kjerneprøve lengde [m]	37.8
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



3130-3135m



3135-3140m



3140-3145m



3145-3149m



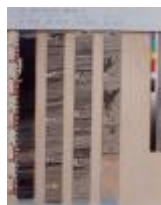
3149-3154m



3154-3159m



3159-3164m



3164-3167m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
3130.0	[m]	C	APT
3130.9	[m]	C	APT
3131.7	[m]	C	APT
3132.3	[m]	C	APT
3132.8	[m]	C	APT
3133.4	[m]	C	APT
3134.3	[m]	C	APT
3134.6	[m]	C	APT
3135.0	[m]	C	APT



3135.1	[m]	C	APT
3135.3	[m]	C	APT
3135.5	[m]	C	APT
3136.6	[m]	C	APT
3138.3	[m]	C	APT
3140.3	[m]	C	APT
3140.8	[m]	C	APT
3142.9	[m]	C	APT
3143.8	[m]	C	APT
3145.3	[m]	C	APT

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
139	NORDLAND GP
505	UTSIRA FM
554	NO FORMAL NAME
673	HORDALAND GP
673	SKADE FM
1074	NO FORMAL NAME
1348	GRID FM
1425	NO FORMAL NAME
2164	ROGALAND GP
2164	BALDER FM
2211	HERMOD FM
2242	SELE FM
2259	HERMOD FM
2304	SELE FM
2331	LISTA FM
2482	VÅLE FM
2552	SHETLAND GP
2552	HARDRÅDE FM
2844	KYRRE FM
2970	TRYGGVASON FM
3029	VIKING GP
3029	DRAUPNE FM
3060	HEATHER FM
3135	VESTLAND GP
3135	HUGIN FM



3156	SLEIPNER FM
3322	DUNLIN GP
3521	STATFJORD GP

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
1712	pdf	0.50

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
1712_1	pdf	0.51

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
1712_01_WDSS_General_Information	pdf	0.43
1712_02_WDSS_completion_log	pdf	0.20

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
1712_25_2_14_COMPLETION_REPORT_AND_LOG	PDF	56.83

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
ACBL VDL GR	1900	3054
CDL CNC GR CAL	3025	3624
CORGUN	2082	2688
CORGUN 25	3059	3584





DIFL AC GR SP	1198	3075
DIFL AC GR SP	3025	3624
DIPLOG	1198	3075
DIPLOG	3055	3624
FMT HP	3137	3574
MWD - GR RES DIR	141	3623
SP	3623	3625
VSP	570	3600
ZDL GR CAL	1198	3075

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	202.0	36	205.0	0.00	LOT
INTERM.	13 3/8	1199.0	17 1/2	1201.0	1.83	LOT
INTERM.	9 5/8	3055.0	12 1/4	3057.0	1.71	LOT
OPEN HOLE		3623.0	8 1/2	3623.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	flytegrense [Pa]	Type slam	Dato, måling
368	1.03			WATER BASED	29.01.1991
1213	1.09	10.0	15.6	WATER BASED	04.02.1991
2848	1.35	31.0	19.6	WATER BASED	04.03.1991
2874	1.35	32.0	20.5	WATER BASED	04.03.1991
2934	1.35	27.0	38.0	WATER BASED	06.03.1991
3072	1.35	22.0	17.6	WATER BASED	08.03.1991
3496	1.25	202.0	89.1	WATER BASED	19.03.1991
3623	1.26	25.0	10.2	WATER BASED	21.03.1991

Trykkplott

Porertrykksdataene kommer fra logging i brønnen hvis ingen annen kilde er oppgitt. I noen brønner der trykk ikke er logget, er det brukt informasjon fra formasjonstester eller brønnspark. Trykkdataene er rapportert inn til Oljedirektoratet og videre prosessert og kvalitetssikret av IHS Markit.





Dokument navn	Dokument format	Dokument størrelse [KB]
1712 Formation pressure (Formasjonstrykk)	PDF	0.22

