



Generell informasjon

Brønnbane navn	30/3-5 S
Type	EXPLORATION
Formål	APPRAISAL
Status	RE-CLASS TO DEV
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	VESLEFRIKK
Funn	30/3-2 Veslefrikk
Brønn navn	30/3-5
Seismisk lokalisering	ST 8513-1486 & CDP. 176
Utvinningstillatelse	052
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	728-L
Boreinnretning	VESLEFRIKK A
Boredager	50
Borestart	01.05.1992
Boreslutt	19.06.1992
Frigitt dato	19.06.1994
Publiseringsdato	03.10.2013
Opprinnelig formål	WILDCAT
Reklassifisert til brønnbane	30/3-A-14
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	BRENT GP
2. nivå med hydrokarboner, alder	EARLY JURASSIC
2. nivå med hydrokarboner, formasjon	DUNLIN GP
Avstand, boredekk - midlere havflate [m]	56.0
Vanndybde ved midlere havflate [m]	175.0
Totalt målt dybde (MD) [m RKB]	4724.0
Totalt vertikalt dybde (TVD) [m RKB]	3340.0
Maks inklinasjon [°]	69.4
Temperatur ved bunn av brønnbanen [°C]	120



Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	STATFJORD GP
Geodetisk datum	ED50
NS grader	60° 46' 57.82" N
ØV grader	2° 53' 52.7" E
NS UTM [m]	6738750.57
ØV UTM [m]	494443.81
UTM sone	31
NPDID for brønnbanen	1950

Brønnhistorie

General

Well 30/3-5 S was drilled on the G prospect, which lies to the east of the Veslefrikk Field. The main target was the Brent Group with Early Jurassic Statfjord Group as a secondary target. The well was designed to be completed as an oil producer on the G prospect.

Operations and results

Well 30/3-5 S was spudded through slot 6 on the fixed installation Veslefrikk A on 1 May 1992 and drilled to TD at 4724 m (3340 m TVD) in the Early Jurassic Statfjord Group. Severe doglegs and ledging in the well path created problems in the 24" section from 472 to 1409 m. An attempt to reach an additional target in the Statfjord Formation failed due to problems with directional drilling. The well was drilled with gypsum/PAC mud down to 2551 m and with oil based mud from 2551 m to TD.

The planned targets were reached. The top of the Brent Group was penetrated at 4050 m, 8 m vertically deeper than prognosed. As expected, a fully developed Brent Group was present in the well. Apart from the Amundsen Formation, which came in 3.5 m shallower than prognosed, the formation tops came in slightly deeper than prognosed. The well proved hydrocarbons in the Brent Group and in the Cook Formation of the Dunlin Group. Differential pressure depletion was observed in some zones of the Brent Formation, attributed to communication with the main Veslefrikk Field which has been in production since 1989. The Statfjord Group had shows in the uppermost part. Rare, weak shows were seen in limestones and siltstones in the Shetland Group. No other shows were reported outside the reservoir section.

Five cores were cut. Cores 1 to 3 were cut from 4060 to 4160 m in the Ness-Etive-Rannoch-Oseberg formations, core 4 was cut from 4168 to 4213 m in the Oseberg Formation, and core 5 was cut from 4429 to 4446 m in the Cook Formation. All cores had significant positive depth shifts compared to logs; 5.5 m, 5.0 m, 5.5 m, 7.0 m, and 6.0 m respectively for cores 1 to 5. RFT fluid samples were taken at 4222 m and at 4426 m.

The well was completed on 19 June 1992 as an oil appraisal well. It was converted to development well 30/3-A-14.

Testing

No drill stem test was performed.



Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
480.00	4710.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	4060.0	4066.0	[m]
2	4076.0	4107.7	[m]
3	4108.0	4160.8	[m]
4	4168.0	4213.1	[m]
5	4429.0	4445.6	[m]

Total kjerneprøve lengde [m]	152.1
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



4060-4065m



4065-4070m



4070-4075m



4075-4075m



4076-4081m



4081-4086m



4086-4091m



4091-4096m



4096-4101m



4101-4106m



4106-4107m



4108-4113m



4113-4118m



4118-4123m



4123-4128m



4128-4133m



4133-4138m



4138-4143m



4143-4148m



4148-4153m



4153-4158m



4158-4160m



4168-4173m



4173-4178m



4178-4183m



4183-4188m



4188-4193m



4193-4198m



4198-4203m



4203-4208m



4208-4213m



4213-4213m



4429-4434m



4434-4439m



4439-4444m



4444-4445m



Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
231	NORDLAND GP
807	UTSIRA FM
1027	HORDALAND GP
2560	ROGALAND GP
2560	BALDER FM
2674	SELE FM
2717	LISTA FM
3004	SHETLAND GP
3787	VIKING GP
4050	BRENT GP
4050	TARBERT FM
4059	NESS FM
4127	ETIVE FM
4142	RANNOCH FM
4155	OSEBERG FM
4243	DUNLIN GP
4243	DRAKE FM
4424	COOK FM
4494	AMUNDSEN FM
4538	STATFJORD GP

Dokumenter - eldre Søkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
1950_01_WDSS_General_Information	pdf	0.42
1950_02_WDSS_completion_log	pdf	0.18

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
1950_30_3_5_S_Completion_log	pdf	0.88
1950_30_3_5_S_Final_Well_report	pdf	5.66





Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
BHC GR	3966	4060
BHC GR	3966	4535
CBL VDL GR	3780	4530
DITE BHC LDT CNT GR AMS	3870	4335
MWD DPR - GR	3956	4710
RFT HP GR AMS	4053	4438
RFT HP GR AMS	4422	4422
RFT HP GR AMS	4426	4426
VSP	3540	4480

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	26	463.0	30	464.0	0.00	LOT
INTERM.	20	1153.0	24	1409.0	1.65	LOT
INTERM.	13 3/8	2548.0	17 1/2	2551.0	1.94	LOT
INTERM.	9 5/8	3955.0	12 1/4	3956.0	1.62	LOT
LINER	7	4530.0	8 1/2	4724.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
510	1.12	11.0		water based	
887	1.18	12.0		water based	
1327	1.20	18.0		water based	
1409	1.20	15.0		water based	
1752	1.39	23.0		water based	
1975	1.60	30.0		water based	
2524	1.62	35.0		water based	
2551	1.61	47.0		oil based	
2697	1.62	35.0		oil based	
3034	1.62	35.0		oil based	
3296	1.62	59.0		oil based	



3679	1.61	50.0		oil based	
3956	1.55	35.0		oil based	
4027	1.20	24.0		oil based	
4236	1.23	27.0		oil based	
4724	1.23	28.0		oil based	

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]
1950_Formation_pressure_(Formasjonstrykk)	pdf	0.22

