



Generell informasjon

Brønnbane navn	30/3-7 B
Type	EXPLORATION
Formål	WILDCAT
Status	RE-CLASS TO TEST
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	VESLEFRIKK
Funn	30/3-7 B
Brønn navn	30/3-7
Seismisk lokalisering	LINE 229/CDP 753
Utvinningstillatelse	052
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	910-L
Boreinnretning	VESLEFRIKK A
Boredager	77
Borestart	20.05.1998
Boreslutt	04.08.1998
Frigitt dato	04.08.2000
Publiseringsdato	07.11.2005
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL/GAS
Funnbrønnbane	YES
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	COOK FM
Avstand, boredekk - midlere havflate [m]	56.0
Vanndybde ved midlere havflate [m]	175.0
Totalt målt dybde (MD) [m RKB]	5970.0
Totalt vertikalt dybde (TVD) [m RKB]	4217.0
Maks inklinasjon [°]	67.2
Temperatur ved bunn av brønnbanen [°C]	153
Eldste penetrerte alder	EARLY JURASSIC



Eldste penetrerte formasjon	COOK FM
Geodetisk datum	ED50
NS grader	60° 46' 57.98" N
ØV grader	2° 53' 51.95" E
NS UTM [m]	6738755.54
ØV UTM [m]	494432.48
UTM sone	31
NPDID for brønnbanen	3229

Brønnhistorie

**General**

Well 30/3-7 S was planned to drill the B-Prospect of the Veslefrikk field, but found hydrocarbons in various small fault segments on the edge of the Veslefrikk horst, and never reached the B-Prospect. Well 30/3-7 A, that was plugged back, was the first well to penetrate the Brent Group in the B-Prospect as a pilot hole for 30/3-7 B. Well 30/3-7 B was the first well to be drilled through the C-segment, and into the B-prospect west of the Main Veslefrikk Field.

The main objectives for well 30/3-7 B were to explore the sand potential and possible hydrocarbons in the C-segment, and in the B-prospect. The well would be utilized as a producer if sufficient amount of hydrocarbons were found. Because of total depth deeper than 4000 m TVD the well was classified as a HPHT well.

Operations and results

Wildcat well 30/3-7 B was drilled from the fixed surface installation Veslefrikk A as a sidetrack from well 30/3-7 S higher up than 30/3-7A (2066 m TVD/2780 m MD versus 2397 m TVD/ 3336 m MD). It was kicked off on 20 May 1998. The well was drilled to 5970 m MD/4217 m TVD RKB in the Dunlin Group. The mud used, from kick-off to TD, was Interdrill, a pseudo-oil based mud system.

The base Cretaceous/top Viking Group was penetrated at 4259 m MD/3100 m TVD, 10 m shallow. Hydrocarbon filled Brent Group slump blocks (approximately 40 m reservoir sandstone) was encountered just below base Cretaceous at 4271.5 m MD/3107.7 m TVD. The lower 20 m is recognized as the Oseberg informal Formation B2A/B.

Two cores were cut (7 and 4 m) just above the main slump plane. They consisted of brittle Drake Formation shales that caused frequent jamming and very short cores. The slump plane was penetrated only 5 m shallower than prognosed.

The C-segment contains hydrocarbon filled Intra Dunlin Sand (IDS), which came in 32 m shallow. The reservoir quality in this location is poor. Three major faults have been observed between the C-segment and the B-prospect. The throws are approximately 400, 150 and 400 meters.

The fault block VF west 1 (produced in well 30/3-7S) was encountered close to prognosis, but the stratigraphy came in deeper, with unexpected 24 m TVD of sandy Ness Fm. The main fault to the B-prospect came in 80 m further to the west than prognosed, giving a total width of the VF west 1 block of 200 m. Two cores were cut from 4346 m to 4358.5 m in the L-prospect, just above the main slump plane. One oriented core was cut from 5715 m to 5740 m in the Oseberg Informal Formation in the B-prospect. Two MDT runs were made in the interval 4290 m to 5917 m, for pressure points and fluid sampling. Fluid samples were taken at 4290.5 m (mud filtrate and gas), 4674.9 m, and 5902.8 m.

The well was completed on 4 August 1998 as an oil/gas discovery. In January 1999 it was perforated over the intervals 5139 -5145 and 5163 - 5179 m MD and reclassified to production test well 30/3-T-7 B.

Testing

No drill stem test was performed.

Borekjerne i Sokkeldirektoratet



Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	4346.0	4353.2	[m]
2	4354.0	4358.5	[m]
3	5715.0	5740.2	[m]

Total kjerneprøve lengde [m]	37.0
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



4346-4351m



4351-4356m



4356-4358m



5715-5720m



5720-5725m



5725-5730m



5730-5735m



5735-5740m



5740-5741m

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
231	NORDLAND GP
783	UTSIRA FM
963	HORDALAND GP
2670	ROGALAND GP
2670	BALDER FM
2804	SELE FM
2844	LISTA FM
3116	SHETLAND GP
3116	JORSALFARE FM
3437	KYRRE FM



3693	TRYGGVASON FM
4261	VIKING GP
4261	HEATHER FM
4272	BRENT GP
4272	NESS FM
4304	OSEBERG FM
4350	DUNLIN GP
4350	DRAKE FM
4378	COOK FM
4439	AMUNDSEN FM
4611	STATFJORD GP
4948	DUNLIN GP
4948	DRAKE FM
5124	BRENT GP
5124	NESS FM
5202	ETIVE FM
5229	RANNOCH FM
5259	OSEBERG FM
5326	NESS FM
5352	VIKING GP
5352	HEATHER FM
5514	BRENT GP
5514	TARBERT FM
5593	NESS FM
5674	ETIVE FM
5693	OSEBERG FM
5777	DUNLIN GP
5777	DRAKE FM
5897	COOK FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
3229	pdf	0.49

Geokjemisk informasjon





Dokument navn	Dokument format	Dokument størrelse [KB]
3229_1	pdf	0.57

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
3229_30_3_7_B_COMPLETION_LOG	.pdf	2.14
3229_30_3_7_B_COMPLETION_REPORT	.pdf	22.98

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
AMS CNT LDL BHC CMR GR	4208	5960
MDT CMR GR	5131	5355
MDT GR	4290	4396
MDTCMR GR	4301	5903
MWD - GR RES DIR	2784	5970
UIB AIT	0	0

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
INTERM.	9 5/8	4287.0	12 1/4	4290.0	1.65	LOT
LINER	5	5962.0	8 3/8	5962.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
2780	1.60	46.0		INTERDRILL NT	
4292	1.53	41.0		INTERDRILL NT	
4778	1.53	46.0		INTERDRILL NT	
5125	1.53	45.0		INTERDRILL NT	
5170	1.53	40.0		INTERDRILL NT	
5272	1.50	41.0		INTERDRILL NT	
5320	1.53	42.0		INTERDRILL NT	





5377	1.53	43.0		INTERDRILL NT	
5757	1.53	48.0		INTERDRILL NT	
5970	1.53	48.0		INTERDRILL NT	

Tynnslip i Sokkeldirektoratet

Dybde	Enhet
4346.40	[m]
4351.65	[m]

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 brønnspar. Trykkdataene er rapportert inn til Oljedirektoratet og videre prosessert og kvalitetssikret av IHS Markit.

Dokument navn	Dokument format	Dokument størrelse [KB]
3229 Formation pressure (Formasjonstrykk)	pdf	0.23

