



Generell informasjon

Brønnbane navn	30/3-7 A
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	VESLEFRIKK
Funn	30/3-7 A
Brønn navn	30/3-7
Seismisk lokalisering	ST 8513R94-201& SP. 867
Utvinningstillatelse	052
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	903-L
Boreinnretning	VESLEFRIKK A
Boredager	95
Borestart	13.10.1997
Boreslutt	29.01.1998
Frigitt dato	29.01.2000
Publiseringsdato	07.11.2005
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	GAS/CONDENSATE
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	BRENT GP
Avstand, boredekk - midlere havflate [m]	56.0
Vanndybde ved midlere havflate [m]	175.0
Totalt målt dybde (MD) [m RKB]	6678.0
Totalt vertikalt dybde (TVD) [m RKB]	4181.0
Maks inklinasjon [°]	73.9
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	DRAKE 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	3176

Brønnhistorie

General

Well 30/3-7 A was drilled on the Veslefrikk Field. The primary objective of the well was to explore the sand potential and possible hydrocarbons in the Late Jurassic sequence west of the Veslefrikk Field (the K-prospect). Well 30/7-3 S, was drilled on the same prospect in 1995, but did not reach the prospect due to an unforeseen fault system. A secondary objective was to drill through the Brent Group of the B-prospect, as a pilot well for a second sidetrack, the 30/3-7B well.

Operations and results

Wildcat well 30/3-7 A was drilled as a sidetrack to well 30/3-7 S, from the fixed surface installation Veslefrikk A. It was first kicked off through the 9 5/8" casing at 3459 - 3462 m in the primary well bore on 13 October 1997. The mill got stuck in the window and the string had to be backed off. A cement plug was set above the fish and a second window was milled from 3336 m to 3340 m. Due to possible high pressure scenarios above the strongly faulted complex penetrated by well bore 30/7-3 S it was decided to run and cement a 7" liner at 5705 m and the bottom part of the well was drilled as a 6" hole. A number of problems mainly related to kick-off, MWD, and logging at high temperatures (in excess of 150 deg C), led to 111 days spent on the well compared to the planned 33.5 days. The well was drilled to final TD at 6678 m in the Early Jurassic Drake Formation. The mud used was Ultidril, a pseudo-oil based mud system where the oil base is synthetic oil (olefines).

The K-prospect was found to consist of well-cemented, fine grained and silty non-reservoir sandstones of Turonian to Coniacian age. There were no recoverable hydrocarbons in this zone. The Base Cretaceous level came in 180 m deeper than prognosed, and the Brent Group came in 168 m deeper than prognosed, whereas the Etive Formation was spot on prognosis. The Tarbert and Ness Formations were thinner, and the base Brent sand (Oseberg Informal Formation) was slightly thinner than prognosed. The logs verified hydrocarbons in the Brent group, but the reservoir quality was generally poor.

The pore pressures are close to the expected values from the 30/6-11 well. The various reservoir zones did not line up along a common gradient, but seemed to be stacked, separate reservoirs. One core was cut in the Cromer Knoll Group from 5909 m to 5922 m. No fluid sample was taken.

The well was plugged back to 5510 m and abandoned on 29 January 1998 as a gas/condensate discovery.

Testing

No drill stem test was performed.

Borekjerne i Sokkeldirektoratet



Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	5909.0	5922.4	[m]

Total kjerneprøve lengde [m]	13.4
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



5909-5914m



5914-5919m



5919-5922m

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
3139	SHETLAND GP
3139	JORSALFARE FM
3692	KYRRE FM
4447	TRYGGVASON FM
5852	BLODØKS FM
5864	SVARTE FM
5895	CROMER KNOLL GP
5895	RØDBY FM
5962	SOLA FM
5969	ÅSGARD FM
6024	VIKING GP



6024	DRAUPNE FM
6052	HEATHER FM
6349	BRENT GP
6349	TARBERT FM
6419	NESS FM
6504	ETIVE FM
6517	RANNOCH FM
6526	OSEBERG FM
6620	DUNLIN GP
6620	DRAKE FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
3176	pdf	0.41

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
3176_30_3_7_A_COMPLETION_LOG	pdf	1.65
3176_30_3_7_A_COMPLETION_REPORT	pdf	22.23
3176_30_3_7_A_COMPLETION_TOPLOG	pdf	2.09

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
BHI MPR	3336	5706
BHI MPR	5733	6678
FMT GR	6536	6592
MWD - GR RES DIR	3344	6678
RCI GR	6353	6581
RCI GR	6510	6692
TTRM GR CND ZDL MAC HDIL VSP	5681	6670
TTRM GR CND ZDL MAC MRIL	5690	6659
VSP HDIL DPIL GR	2888	3114





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	3336.0	12 1/4	3340.0	1.80	LOT
LINER	7	5705.0	8 3/8	5706.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
2780	1.60	57.0		INTERDRILL NT	
3344	1.58	36.0		ULTIDRILL	
3447	1.58	36.0		ULTIDRILL	
4687	1.61	28.0		ULTIDRILL	
5286	1.61	36.0		ULTIDRILL	
5501	1.61	34.0		ULTIDRILL	
5679	1.61	30.0		ULTIDRILL	
5740	1.45	29.0		ULTIDRILL	
5909	1.45	33.0		ULTIDRILL	
6373	1.48	36.0		ULTIDRILL	
6472	1.48	36.0		ULTIDRILL	
6510	1.48	33.0		ULTIDRILL	
6678	1.48			DUMMY	

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]
3176 Formation pressure (Formasjonstrykk)	pdf	0.22

