



General information





Wellbore name	30/3-7 A
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Field	VESLEFRIKK
Discovery	30/3-7 A
Well name	30/3-7
Seismic location	ST 8513R94-201& SP. 867
Production licence	052
Drilling operator	Den norske stats oljeselskap a.s
Drill permit	903-L
Drilling facility	VESLEFRIKK A
Drilling days	95
Entered date	13.10.1997
Completed date	29.01.1998
Release date	29.01.2000
Publication date	07.11.2005
Purpose - planned	WILDCAT
Reentry	NO
Content	GAS/CONDENSATE
Discovery wellbore	YES
1st level with HC, age	MIDDLE JURASSIC
1st level with HC, formation	BRENT GP
Kelly bushing elevation [m]	56.0
Water depth [m]	175.0
Total depth (MD) [m RKB]	6678.0
Final vertical depth (TVD) [m RKB]	4181.0
Maximum inclination [°]	73.9
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	DRAKE FM
Geodetic datum	ED50
NS degrees	60° 46' 57.98" N
EW degrees	2° 53' 51.95" E
NS UTM [m]	6738755.54
EW UTM [m]	494432.48
UTM zone	31
NPDID wellbore	3176



Wellbore history

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 Eive 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.

Cores at the Norwegian Offshore Directorate

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	5909.0	5922.4	[m]



Total core sample length [m]	13.4
Cores available for sampling?	YES

Core photos

5909-5914m



5914-5919m



5919-5922m

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
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

Composite logs

Document name	Document format	Document size [MB]
3176	pdf	0.41

Documents - reported by the production licence (period for duty of secrecy expired)

Document name	Document format	Document size [MB]
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

Logs

Log type	Log top depth [m]	Log bottom depth [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

Casing and leak-off tests

Casing type	Casing diam. [inch]	Casing depth [m]	Hole diam. [inch]	Hole depth [m]	LOT/FIT mud eqv. [g/cm3]	Formation test type
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
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Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
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	

Pressure plots

The pore pressure data is sourced from well logs if no other source is specified. In some wells where pore pressure logs do not exist, information from Drill stem tests and kicks have been used. The data has been reported to the NPD, and further processed and quality controlled by IHS Markit.

Document name	Document format	Document size [MB]
3176 Formation pressure (Formasjonstrykk)	pdf	0.22

