

**General information**

Wellbore name	34/6-1 S
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Press release	<a href="#">link to press release</a>
Factmaps in new window	<a href="#">link to map</a>
Main area	NORTH SEA
Well name	34/6-1
Seismic location	Intersection line 4100 and trace 3542
Production licence	<a href="#">268</a>
Drilling operator	Norske Conoco A/S
Drill permit	1039-L
Drilling facility	<a href="#">TRANSOCEAN WINNER</a>
Drilling days	42
Entered date	18.07.2002
Completed date	28.08.2002
Release date	28.08.2004
Publication date	24.09.2004
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	26.0
Water depth [m]	380.0
Total depth (MD) [m RKB]	4360.0
Final vertical depth (TVD) [m RKB]	3922.0
Maximum inclination [°]	49
Bottom hole temperature [°C]	147
Oldest penetrated age	LATE TRIASSIC
Oldest penetrated formation	LUNDE FM
Geodetic datum	ED50
NS degrees	61° 34' 56.34" N
EW degrees	2° 41' 7.7" E
NS UTM [m]	6827854.70
EW UTM [m]	483300.01
UTM zone	31
NPID wellbore	4561

## Wellbore history

### General

Well 34/6-1 S is located in the northern part of the Tampen Spur area. The block lies on the eastern flank of the Tampen Spur, separated from the North Viking Graben to the east by the Visund Fault Trend. The well targeted potential hydrocarbon bearing sands in the Jurassic Brent, Cook, and Statfjord formations (the Akkar prospect). The well was drilled directionally to evaluate all three formations at adequate structural locations to ensure that the risk of leaving economic reserves untested up-dip was minimal. The well should acquire data necessary to evaluate the prospect and the remaining exploration potential of the licence, and in the event of a dry well, acquire sufficient data to demonstrate the well to be dry and explain the absence of hydrocarbons. Planned TD was 50 m into the Lunde Formation of the Hegre Group.

### Operations and results

Exploration well 34/6-1 S spudded with the semi-submersible installation Transocean Winner on 18 July 2002 and drilled to the planned TD of 4360 m (3922 m TVD RKB) in the Triassic Lunde Formation. Drilling operations went smoothly without significant problems. The 12 1/4" hole section was directional, building 2,3°/30m from 2490 m to an inclination of  $\pm 49^\circ$ . Inclination and direction were held to section TD at 3395m MD / 3228m TVD. Inclination fell back to  $\pm 41^\circ$  at ca 3700 m and the hole was kept at that inclination to final TD. The well was drilled with seawater and hi-vis sweeps down to 1350 m, with KCl/Glydril (glycol) mud from 1350 m to 2422 m, and with Versavert oil based mud from 2422 m to TD.

Reservoir quality sands were encountered at all levels identified prior to drilling as potential targets, namely: the Brent Group, Cook Formation and Statfjord Formation. In addition, sand was encountered within the Lunde Formation.

The MDT tool was run on wire line, obtaining 11 successful pressure tests. The results gave water gradients in the Brent and Dunlin sands. Possible low hydrocarbon saturation (residual) could be interpreted from logs in the Amundsen and Statfjord/Lunde Formations, though there were no other observations to support this. No significant shows were recorded, neither on the rig nor from post-well geochemical analyses. However, the use of oil-based mud made geochemical interpretations of rock extracts problematic. The conclusion was a non-commercial well with no hydrocarbon bearing sands. No cores, neither conventional nor sidewall, were obtained. No fluid samples were attempted.

The well was permanently plugged and abandoned as a dry hole on 27 August 2002.

### Testing

No drill stem test was performed

## Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1350.00	4359.00
Cuttings available for sampling?	YES

**Lithostratigraphy**

Top depth [mMD RKB]	Lithostrat. unit
407	<a href="#">NORDLAND GP</a>
1350	<a href="#">HORDALAND GP</a>
1878	<a href="#">ROGALAND GP</a>
1878	<a href="#">BALDER FM</a>
1900	<a href="#">SELE FM</a>
1911	<a href="#">LISTA FM</a>
2043	<a href="#">VÅLE FM</a>
2053	<a href="#">SHETLAND GP</a>
2053	<a href="#">JORSALFARE FM</a>
2300	<a href="#">KYRRE FM</a>
3240	<a href="#">TRYGGVASON FM</a>
3378	<a href="#">CROMER KNOLL GP</a>
3412	<a href="#">VIKING GP</a>
3412	<a href="#">DRAUPNE FM</a>
3419	<a href="#">HEATHER FM</a>
3470	<a href="#">BRENT GP</a>
3470	<a href="#">TARBERT FM</a>
3476	<a href="#">NESS FM</a>
3512	<a href="#">ETIVE FM</a>
3583	<a href="#">RANNOCH FM</a>
3659	<a href="#">DUNLIN GP</a>
3659	<a href="#">DRAKE FM</a>
3807	<a href="#">COOK FM</a>
3932	<a href="#">BURTON FM</a>
3941	<a href="#">AMUNDSEN FM</a>
4199	<a href="#">STATFJORD GP</a>
4313	<a href="#">HEGRE GP</a>
4313	<a href="#">LUNDE FM</a>

**Composite logs**

Document name	Document format	Document size [MB]
<a href="#">4561</a>	pdf	0.44



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**NPD Factpages**  
**Wellbore / Exploration**

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

Document name	Document format	Document size [MB]
<a href="#">4561_34_6_1_S_COMPLETION_REPORT</a>	.PDF	2.45
<a href="#">4561_34_6_1_S_COMPOSITE_PLOT</a>	.PDF	2.00

**Logs**

Log type	Log top depth [m]	Log bottom depth [m]
DSI	2750	3394
DSI AIT GR	3394	4359
DSI AIT IPLT HNGS	3394	3552
GR	406	3394
IPLT HNGS	3394	4365
MDT GR	0	0
MDT GR	0	0
MDT GR	3470	3473
MDT GR	3473	4299
MDT GR VSP GR-PIPE-CONV	0	0
MWD - DIR	406	1350
MWD LWD - DIR CDR GR RES	1350	2422
MWD LWD - DIR GR RES RES/GR-BIT	3395	4366
MWD LWD - DIR GR RES SON	2422	3395
VSP GR	760	3380
VSP GR	3183	4326

**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
CONDUCTOR	30	492.0	36	495.0	0.00	LOT
SURF.COND.	20	1341.0	26	1350.0	1.55	LOT
INTERM.	13 3/8	2411.0	17 1/2	2422.0	1.82	LOT
INTERM.	9 5/8	3392.0	12 1/4	3422.0	1.98	LOT
OPEN HOLE		4360.0	8 1/2	4360.0	0.00	LOT



**Drilling mud**

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
806	1.05			SPUD MUD	
2000	1.39	19.0		KCL/POLYMER	
2422	1.41	23.0		KCL/POLYMER	
2837	1.50	40.0		OIL (REGULAR)	
3300	1.50	38.0		OIL (REGULAR)	
3395	1.55	39.0		OIL (ENVIRON)	
4197	1.74	43.0		OIL (ENVIRON)	
4360	1.74	46.0		OIL (ENVIRON)	
4360	1.30	14.0		WATERBASED	

**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]
<a href="#">4561 Formation pressure (Formasjonstrykk)</a>	pdf	0.22

