

**General information**

Wellbore name	6507/11-7
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	NORWEGIAN SEA
Well name	6507/11-7
Seismic location	Seismic survey MC3D-MGW98 inline4277-crossline 4238
Production licence	263
Drilling operator	Norsk Hydro Produksjon AS
Drill permit	1123-L
Drilling facility	TRANSOCEAN WINNER
Drilling days	62
Entered date	13.12.2006
Completed date	12.02.2007
Release date	12.02.2009
Publication date	09.03.2009
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	26.0
Water depth [m]	294.0
Total depth (MD) [m RKB]	2950.0
Final vertical depth (TVD) [m RKB]	2948.8
Maximum inclination [°]	3.4
Bottom hole temperature [°C]	107
Oldest penetrated age	EARLY CRETACEOUS
Oldest penetrated formation	LANGE FM
Geodetic datum	ED50
NS degrees	65° 10' 54.58" N
EW degrees	7° 21' 52.8" E
NS UTM [m]	7229892.52
EW UTM [m]	423410.55
UTM zone	32
NPDID wellbore	5430



Wellbore history

General

Wildcat well 6507/11-7 is located in the Grinda Graben, a major structural element in PL263 on the Halten Terrace off shore mid Norway. The primary objective of the well 6507/11-7 was to prove commercial hydrocarbon resources in the Late Cretaceous Zita prospect. The Zita prospect is a Lysing Formation reservoir in a stratigraphic trap model. A secondary objective of the well was to prove commercial hydrocarbon resources within the Late Cretaceous Zit-B prospect. The Zit-B prospect is an Upper Lange Fm reservoir in a stratigraphic trap model.

Operations and results

Well 6507/11-7 was spudded with the semi-submersible installation Transocean Winner on 13 December 2006 and drilled to TD at 2950 m in Early Cretaceous (Late Albian) sediments of the Lange Formation. Spudding was made difficult by large boulders and unacceptable inclination in the first top hole led to a re-spud ca 15 m northwest of the original location. Otherwise operations proceeded without significant problems. The well was drilled with spud mud down to 535 m, with Polymer/KCl brine mud from 535 m to 2484 m, and with Ultradril mud from 2484 m to TD. The Ultra drill mud contains Ultrafree NS, which consists of C14-C16 linear alpha olefins.

No hydrocarbons were proven in the well. Calcite cemented sand layers of Coniacian to Turonian age (Lysing Formation) were encountered in a 39 m thick interval (2777 - 2817 m). The stacked sand layers had very low porosities and permeability values, and was water wet. Formation pressure measurements showed higher pressure in the Lysing Formation sands in well 6507/11-7, than in the comparable down-dip Smørbukk S discovery in the Lysing Formation. This indicated that the encountered sands were not in direct pressure communication with the Lysing Formation sands in the region. Post-well organic geochemical analyses of mud gas, cuttings and SWC's confirmed a dry well with no indication of migrated hydrocarbons.

The formation evaluation programme for not making a discovery was carried through, comprising one run with wire line logging, MDT pressure point measurements and MSCT sidewall samples, in order to confirm the well results. No cores were taken, no VSP was gathered and no formation fluid sample was collected.

The well was permanently abandoned on 12 February 2007 as a dry well.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
550.00	2950.00

Cuttings available for sampling?	YES
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**Lithostratigraphy**

Top depth [mMD RKB]	Lithostrat. unit
320	NORDLAND GP
320	NAUST FM
1408	KAI FM
1710	HORDALAND GP
1710	BRYGGE FM
2052	ROGALAND GP
2052	TARE FM
2100	TANG FM
2158	SHETLAND GP
2158	SPRINGAR FM
2237	NISE FM
2513	KVITNOS FM
2777	CROMER KNOLL GP
2777	LYSING FM
2817	LANGE FM

Geochemical information

Document name	Document format	Document size [MB]
5430_1	pdf	0.27
5430_2	pdf	2.31

Logs

Log type	Log top depth [m]	Log bottom depth [m]
GR RES NEU DEN DIR APWD	2753	2950
MDT GR	2783	2880
MSCT GR	2751	2885
MWD - DIR	320	535
MWD - GR RES DIR APWD	535	1115
MWD - GR RES NEU DIR APWD SONIC	1115	2484
PEX HRLA DSI	2329	2948



**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	386.0	36	387.0	0.00	LOT
SURF.COND.	20	532.0	26	535.0	0.00	LOT
INTERM.	13 3/8	1114.0	17 1/2	1115.0	1.22	LOT
INTERM.	9 5/8	2478.0	12 1/4	2484.0	1.90	LOT
OPEN HOLE		2950.0	8 1/2	2950.0	1.94	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
390	1.05			WATER BASED	
390	1.05			WATER BASED	
421	1.05			WATER BASED	
1115	1.18	22.0		WATER BASED	
1536	1.58	37.0		WATER BASED	
1709	1.60	40.0		WATER BASED	
2115	1.60	36.0		WATER BASED	
2315	1.60	31.0		WATER BASED	
2445	1.60	36.0		WATER BASED	
2484	1.62	32.0		WATER BASED	