



General information





Wellbore name	6407/8-4 A
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	NORWEGIAN SEA
Discovery	6407/8-4 A
Well name	6407/8-4
Seismic location	BPN9501R05 & line496 & trace 2708 & seismic 3D survey
Production licence	348
Drilling operator	StatoilHydro Petroleum AS
Drill permit	1183-L
Drilling facility	WEST ALPHA
Drilling days	26
Entered date	22.05.2008
Completed date	16.06.2008
Release date	16.06.2010
Publication date	16.06.2010
Purpose - planned	WILDCAT
Reentry	NO
Content	GAS
Discovery wellbore	YES
1st level with HC, age	EARLY JURASSIC
1st level with HC, formation	TILJE FM
Kelly bushing elevation [m]	18.0
Water depth [m]	266.0
Total depth (MD) [m RKB]	2473.0
Final vertical depth (TVD) [m RKB]	2319.0
Maximum inclination [°]	44.5
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	ÅRE FM
Geodetic datum	ED50
NS degrees	64° 26' 47.8" N
EW degrees	7° 38' 54.2" E
NS UTM [m]	7147652.53
EW UTM [m]	434947.46
UTM zone	32
NPDID wellbore	5814



Wellbore history

General

Well 6407/8-4 A is a sidetrack from the Galtvort well 6407/8-4 S, located on the eastern margin of the Gimsan Basin in the Norwegian Sea, ca 7 km northwest of the Draugen Field. A main fault separates the middle and northern segments of the Galtvort structure from the southern segment. The southern segment was tested in well 6407/8-4 S and found gas in the Fangst Group. The primary objective of the sidetrack was to test the hydrocarbon potential of prospective formations in the middle and northern segments in order to test the sealing potential of the main fault crossing the structure.

Operations and results

Wildcat well 6407/8-4 A was drilled with the semi-submersible installation West Alpha as a sidetrack. It was kicked off from a milled window (1497 - 1502 m) in the 13 3/8" casing in 6407/8-4 S on 22 May 2008 and drilled to TD at 2473 m (2319 m TVD) in the Early Jurassic Åre Formation. The well was drilled with Glydril mud from kick-off to TD. No significant technical problems were encountered in the operations.

Prior to drilling it was prognosed that the sidetrack should penetrate the same formations as well 6407/8-4 S. Due to a much larger fault throw between the Middle and the South Galtvort Segments and hence more extensive uplift and erosion of the Middle and North Segments than anticipated, the entire Fangst Group was eroded. As a result the well penetrated directly from the Cretaceous Kvitnos Formation and into the Båt Group at 2117.8 m (2026.7 m TVD). The upper part of the Båt Group consisted of Ror Formation mudstones and only thin Tofte equivalent sandstones of mediocre reservoir quality. The underlying Tilje Formation came in at 2217 m (2106 m TVD) and was gas bearing down to a GWC somewhere in the interval 2175 to 2183 m TVD SS. Weak oil shows were observed in cuttings between 2226 m to 2274 m in the Tilje Formation. Otherwise no oil shows were observed in the sidetrack wellbore.

No cores were cut in this wellbore. MDT wire line gas samples were taken at 2219 m, 2120.4 m, and at 2121 m. Sampling was performed with only a few bar drawdown and the samples are believed to be representative of the formation fluids.

The well was permanently abandoned on 16 June 2008 as a gas discovery.

Testing

No drill stem test was performed.

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Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1510.00	2463.00

Cuttings available for sampling?	YES
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Palynological slides at the Norwegian Offshore Directorate



Sample depth	Depth unit	Sample type	Laboratory
2830.0	[m]	DCS	HYDRO
2835.0	[m]	DCS	HYDRO

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
284	NORDLAND GP
284	NAUST FM
997	KAI FM
1025	HORDALAND GP
1025	BRYGGE FM
1658	ROGALAND GP
1658	TARE FM
1731	TANG FM
1910	SHETLAND GP
1910	NISE FM
2081	KVITNOS FM
2118	BÅT GP
2118	ROR FM
2217	TILJE FM
2424	ÅRE FM

Geochemical information

Document name	Document format	Document size [MB]
5814_01_6407_8_4A_gch_transfer_1	txt	0.00
5814_02_6407_8_4A_gch_results_1	txt	0.09

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CMR MDT GR	2110	2224
FMI HNGS	2062	2473
MSIP HRLA PEX ECS	1500	2476
MWD - GR RES DIR PWD	1497	2473



**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	2062.0	12 1/4	2062.0	1.85	LOT
OPEN HOLE		2473.0	8 1/2	2473.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
1507	1.46	20.0		Glydril	
1546	1.50	23.0		Glydril	
1820	1.50	21.0		Glydril	
2062	1.50	19.0		Glydril	
2100	1.31	17.0		Glydril	
2180	1.31	15.0		Glydril	
2222	1.31	15.0		Glydril	
2265	1.30	17.0		Glydril	
2372	1.30	20.0		Glydril	
2473	1.30	12.0		Glydril	
2473	1.20	11.0		Glydril	

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]
5814 Formation pressure (Formasjonstrykk)	pdf	0.30

