

### General information

Wellbore name	6706/12-3
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	NORWEGIAN SEA
Discovery	<a href="#">6706/12-3 (Roald Rygg)</a>
Well name	6706/12-3
Seismic location	3D survey ST11M09Z14.inline 2898 & xline 2137
Production licence	<a href="#">602</a>
Drilling operator	Statoil Petroleum AS
Drill permit	1566-L
Drilling facility	<a href="#">TRANSOCEAN SPITSBERGEN</a>
Drilling days	22
Entered date	22.03.2015
Completed date	13.04.2015
Release date	13.04.2017
Publication date	13.04.2017
Purpose - planned	WILDCAT
Reentry	NO
Content	GAS
Discovery wellbore	YES
1st level with HC, age	LATE CRETACEOUS
1st level with HC, formation	NISE FM
Kelly bushing elevation [m]	40.0
Water depth [m]	1287.0
Total depth (MD) [m RKB]	3336.0
Final vertical depth (TVD) [m RKB]	3335.0
Maximum inclination [°]	4.2
Bottom hole temperature [°C]	82
Oldest penetrated age	LATE CRETACEOUS
Oldest penetrated formation	KVITNOS FM
Geodetic datum	ED50
NS degrees	67° 4' 5.85" N
EW degrees	6° 43' 54.29" E
NS UTM [m]	7440982.06

EW UTM [m]	401389.03
UTM zone	32
NPDID wellbore	7666

## Wellbore history

### General

Well 6706/12-3 was drilled to test the Roald Rygg prospect about 12 kilometres west of the Aasta Hansteen field in the northern part of the Norwegian Sea. The primary objective was to prove petroleum in Late Cretaceous reservoir rocks, with a primary exploration target in the Nise formation and a secondary exploration target in the Kvitnos formation.

### Operations and results

Wildcat well 6706/12-3 was spudded with the semi-submersible installation Transocean Spitsbergen on 13 April 2015 and drilled to TD at 3336 m in the Late Cretaceous Kvitnos Formation. No significant problem was encountered in the operations. The well was drilled with seawater and hi-vis sweeps down to 1933 m, with Glydril mud from 1933 m to 2295 m, and with Versatec DW oil based mud from 2295 m to TD.

Top of the Nise Reservoir was encountered at 2496m. The Nise Formation contained a gas column of 38 metres, of which about 30 metres in sandstone of extremely good reservoir quality. The gas water contact was established at 2534 m. In the Kvitnos formation, the well encountered water bearing sandstone, of which about 35 metres with good reservoir quality. Poor oil shows (direct and cut fluorescence) were described on the Nise Formation core at 2505 to 2511 m and 2519 to 2525 m. In the Kvitnos Formation, some spotted shows in sandy cuttings were described at 3231 m, 3306 m, and 3315 to 3318 m.

One core was cut from 2505 to 2530 m in the Nise Formation, with 99.0 % recovery. MDT fluid samples were taken at 2510.01 m (gas) and at 2563.01 m (water).

The well was permanently abandoned on 13 April 2015 as a gas discovery.

### Testing

No drill stem test was performed.

## Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1940.00	3336.00
Cuttings available for sampling?	YES

## Cores at the Norwegian Offshore Directorate

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	2505.0	2529.7	[m ]

Total core sample length [m]	24.7
Cores available for sampling?	YES

## Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
1327	<a href="#">NORDLAND GP</a>
1327	<a href="#">NAUST FM</a>
2140	<a href="#">HORDALAND GP</a>
2140	<a href="#">BRYGGE FM</a>
2268	<a href="#">ROGALAND GP</a>
2268	<a href="#">TARE FM</a>
2323	<a href="#">TANG FM</a>
2336	<a href="#">SHETLAND GP</a>
2336	<a href="#">SPRINGAR FM</a>
2496	<a href="#">NISE FM</a>
3222	<a href="#">KVITNOS FM</a>

## Logs

Log type	Log top depth [m]	Log bottom depth [m]
AIT PEX ECS HNGS	2295	3335
MDT CMR	2295	3335
MWD - GR RES DEN NEU CAL DIR APW	1933	2295
MWD - GR RES DIR APWD	1406	1933
MWD - GR RES DIR APWD	2295	3335
OBMI	2480	2645
OBMI SON SCAN TLD	2295	3335
VSI4	1331	3335

## 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	36	1401.4	42	1406.0	0.00	
INTERM.	13 3/8	1924.7	17 1/2	1933.0	1.26	FIT
LINER	9 5/8	2294.0	12 1/4	2295.0	1.31	FIT
OPEN HOLE		3336.0	8 1/2	3336.0	0.00	

**Drilling mud**

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
1933	1.12	8.0		Glydril	
2021	1.18	22.0		Versatec	
2295	1.14	12.0		Glydril	
2505	1.16	18.0		Versatec	
2965	1.16	21.0		Versatec	
3336	1.16	21.0		Versatec	