

**General information**

Wellbore name	6507/6-4 S
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	6507/6-4
Seismic location	Sindbad-inline 3665-xline3402 &Sesam-inline 3717 and xline 3525
Production licence	350
Drilling operator	E.ON Ruhrgas Norge AS
Drill permit	1377-L
Drilling facility	BORGLAND DOLPHIN
Drilling days	22
Entered date	26.10.2011
Completed date	16.11.2011
Release date	15.03.2013
Publication date	15.03.2013
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	31.2
Water depth [m]	363.5
Total depth (MD) [m RKB]	1339.0
Final vertical depth (TVD) [m RKB]	1339.0
Maximum inclination [°]	14.3
Oldest penetrated age	LATE TRIASSIC
Oldest penetrated formation	RED BEDS (INFORMAL)
Geodetic datum	ED50
NS degrees	65° 38' 6.2" N
EW degrees	7° 43' 32.8" E
NS UTM [m]	7280010.99
EW UTM [m]	441342.38
UTM zone	32
NPDID wellbore	6725



Wellbore history

General

Well 6507/6-4 S was drilled on the Sinbad prospect in the Norwegian Sea. Structurally the prospect is located on the Sør High of the Nordland Ridge in the Norwegian Sea. The target prospect was an amplitude anomaly in the lower part of the Triassic Grey Beds. The distance to the Skarv Field immediately to the west is 10 km and to the Heidrun Field (to the SSW) approximately 30 km. Well 6507/6-4 S was drilled outside the amplitude anomaly to the south drilled by well 6507/6-1 in 1988 by Saga Petroleum.

Operations and results

Wildcat well 6507/6-4 S was spudded with the semi-submersible installation Borgland Dolphin on 26 October 2011 and drilled to TD at 1339 m (1333 m TVD) in the Late Triassic Red Beds. Due to coldwater corals the 36" hole, pilot hole and 26" hole were drilled with a subsea cuttings transport system (CTS) to transport the drilled cuttings 500 m away from the spud location. A 9 7/8" pilot hole was drilled from 471 to 907 m. Small gas bubbles were observed at the CTS funnel when flow checking at 790 m. The source of the gas was believed to be +/- 767 m. No significant problem was encountered in the operations. The well was drilled with sea water and Bentonite based high-viscosity sweeps down to 749 m and with Carbo-Sea oil based mud from 749 m to TD.

The formations came in close to prognosis with the Late Tertiary Kai Formation resting on top of the Early Jurassic Åre Formation at 1042 m. Top Grey Beds came in at 1208 m, with the Sinbad reservoir section at 1256 m. The latter was 12 m deep to prognosis. The Grey Beds Group consisted of rapidly changing sand-, silt- and claystone. Individual units were up to 5m thick, but generally 1-3 m. Trace of coal was reported. There were no indications of hydrocarbon shows in the well-bore.

No cores were cut and no wire line fluid samples were taken. No formation evaluation except from Logging While Drilling (LWD) was performed.

The well bore was classified as dry and was plugged back to the 20" casing before kicking off to drill the 6507/6-4 A to test a separate prospect. It was permanently abandoned on 16 November 2011.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
750.00	1339.00

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



Sample depth	Depth unit	Sample type	Laboratory
1043.0	[m]	DC	FUGRO
1052.0	[m]	DC	FUGRO
1061.0	[m]	DC	FUGRO
1070.0	[m]	DC	FUGRO
1079.0	[m]	DC	FUGRO
1088.0	[m]	DC	FUGRO
1097.0	[m]	DC	FUGRO
1106.0	[m]	DC	FUGRO
1115.0	[m]	DC	FUGRO
1127.0	[m]	DC	FUGRO
1136.0	[m]	DC	FUGRO
1145.0	[m]	DC	FUGRO
1154.0	[m]	DC	FUGRO
1163.0	[m]	DC	FUGRO
1172.0	[m]	DC	FUGRO
1181.0	[m]	DC	FUGRO
1190.0	[m]	DC	FUGRO
1199.0	[m]	DC	FUGRO
1208.0	[m]	DC	FUGRO
1217.0	[m]	DC	FUGRO
1226.0	[m]	DC	FUGRO
1235.0	[m]	DC	FUGRO
1244.0	[m]	DC	FUGRO
1256.0	[m]	DC	FUGRO
1262.0	[m]	DC	FUGRO
1268.0	[m]	DC	FUGRO
1280.0	[m]	DC	FUGRO
1292.0	[m]	DC	FUGRO
1304.0	[m]	DC	FUGRO
1316.0	[m]	DC	FUGRO
1328.0	[m]	DC	FUGRO

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
395	NORDLAND GP
395	NAUST FM
853	KAI FM



1042	BÅT GP
1042	ÅRE FM
1208	GREY BEDS (INFORMAL)
1287	RED BEDS (INFORMAL)

Logs

Log type	Log top depth [m]	Log bottom depth [m]
MWD - DIR	394	465
MWD - DIR	465	749
MWD - GR RES PWD DT NEU DEN DIR	749	1339
MWD - GR RES PWD SON DIR	465	907

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	30.0	36	0.0	0.00	LOT
CONDUCTOR	30	460.0	36	460.0	0.00	LOT
SURF.COND.	20	743.0	26	749.0	1.46	LOT
INTERM.	9 5/8	1198.0	12 1/4	1204.0	1.62	LOT
OPEN HOLE		1339.0	8 1/2	1339.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
393	1.05			Spud Mud	
465	1.05			Spud Mud	
608	1.05			Spud Mud	
649	1.25	10.0		kill mud	
823	1.30	22.0		CARBO-SEA	
850	1.05			Spud Mud	
1186	1.30	23.0		CARBO-SEA	
1339	1.30	22.0		CARBO-SEA	