



General information

Wellbore name	6507/11-11
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	6507/11-11
Seismic location	MC3D-HVG2011-BIN :inline 3113 & xline 2989
Production licence	591
Drilling operator	Tullow Oil Norge AS
Drill permit	1574-L
Drilling facility	LEIV EIRIKSSON
Drilling days	36
Entered date	27.05.2015
Completed date	01.07.2015
Release date	01.07.2017
Publication date	01.07.2017
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	25.0
Water depth [m]	271.0
Total depth (MD) [m RKB]	2900.0
Final vertical depth (TVD) [m RKB]	2900.0
Maximum inclination [°]	2.3
Oldest penetrated age	MIDDLE JURASSIC
Oldest penetrated formation	NOT FM
Geodetic datum	ED50
NS degrees	65° 14' 15.9" N
EW degrees	7° 30' 39.4" E
NS UTM [m]	7235954.48
EW UTM [m]	430407.36
UTM zone	32
NPID wellbore	7697



Wellbore history

General

Well 6507/11-11 was drilled to test the Zumba prospect in the Grinda Graben in the Norwegian Sea. The primary objective was to test the hydrocarbon potential in the Late Jurassic Rogn Formation. The secondary objective was to prove petroleum in the Middle Jurassic Garn formation.

Operations and results

Wildcat well 6507/11-11 was spudded with the semi-submersible installation Leiv Eiriksson on 27 May 2015 and drilled to TD at 2900 m in the Middle Jurassic Not Formation. Pilot holes were drilled in the top sections down to 501 m to check for shallow gas. No shallow gas was observed. No significant problem was encountered in the operations. The well was drilled with KCl/polymer mud down to 504 m and with EMS-4400 oil based mud from 504 m to TD.

The Spekk Formation was penetrated from 2604 to 2713 m. It consisted of carbonaceous claystone with limestone stringers. Geochemical analyses proved 7-10% TOC and pre-oil window maturity all through. The target Rogn Formation sandstone was not observed, only traces of sandstone was observed in cuttings below 2695 m. The Garn Formation came in at 2845 m and was water-wet. No hydrocarbon shows were observed in the well.

No cores were cut. No fluid sample was taken.

The well was permanently abandoned on 1 July 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]
295.50	2899.00

Cuttings available for sampling?	YES
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Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
296	NORDLAND GP
737	NAUST FM
1405	KAI FM
1675	HORDALAND GP



1675	BRYGGE FM
1998	ROGALAND GP
1998	TARE FM
2040	TANG FM
2083	SHETLAND GP
2083	SPRINGAR FM
2151	NISE FM
2298	KVITNOS FM
2350	CROMER KNOLL GP
2350	LANGE FM
2580	LYR FM
2604	VIKING GP
2604	SPEKK FM
2713	MELKE FM
2845	FANGST GP
2845	GARN FM
2880	NOT FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
DI	295	380
DI	380	501
GR RES PWD DI SON	295	380
GR RES PWD DI SON	380	501
GR RES PWD DI SON	501	2569
GR RES PWD DI SON DEN NEU STETH	2569	2900

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	374.1	36	380.0	0.00	
SURF.COND.	20	495.0	26	501.0	1.29	LOT
INTERM.	13 3/8	1542.0	17 1/2	1550.0	0.00	
LINER	9 5/8	2563.0	12 1/4	2569.0	1.50	FIT
OPEN HOLE		2900.0	8 1/2	2900.0	0.00	



Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
380	1.22	10.0		KCl/Polymer mud	
466	1.14	8.0		KCl polymer	
467	1.23	12.0		KCl/Polymer mud	
501	1.02	2.0		Seawater	
504	1.14	9.0		KCl polymer	
988	1.17	16.0		EMS 4400	
1550	1.26	20.0		EMS 4400	
1569	1.47	30.0		EMS 4400	
2003	1.47	30.0		EMS 4400	