

**General information**

Wellbore name	7/11-12 S
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	NORTH SEA
Well name	7/11-12
Seismic location	intersection of inline 10560 and trace 24248
Production licence	301 CS
Drilling operator	ConocoPhillips Skandinavia AS
Drill permit	1340-L
Drilling facility	MÆRSK GALLANT
Drilling days	112
Entered date	27.03.2011
Completed date	16.07.2011
Release date	15.03.2013
Publication date	15.03.2013
Purpose - planned	WILDCAT
Reentry	NO
Content	SHOWS
Discovery wellbore	NO
Kelly bushing elevation [m]	47.0
Water depth [m]	72.0
Total depth (MD) [m RKB]	5420.0
Final vertical depth (TVD) [m RKB]	5403.0
Maximum inclination [°]	10
Bottom hole temperature [°C]	187
Oldest penetrated age	TRIASSIC
Oldest penetrated formation	SKAGERRAK FM
Geodetic datum	ED50
NS degrees	57° 0' 54.51" N
EW degrees	2° 36' 13.54" E
NS UTM [m]	6319282.81
EW UTM [m]	475938.00
UTM zone	31
NPDID wellbore	6549



Wellbore history

General

Well 7/11-12 S was drilled on the Peking Duck Prospect located 19km SW of the Ula Field and 28km NE of the UK Jade Field. The primary objective was to evaluate Triassic sandstones at a prognosed depth of 5212 m.

Operations and results

Wildcat well 7/11-12 S was spudded with the jack-up installation Mærsk Gallant on 27 March 2011 and drilled to TD at 5420 m (5403 m TVD) in the Triassic Skagerrak Formation. Due to the possible risk of shallow gas, a 12-1/4" pilot hole was drilled from 255 m to 950m. No shallow gas was observed. There were no major problems involved in the operations, but due to deteriorating hole conditions wire line logging at TD was terminated without obtaining satisfactory XPT pressure data. The well was drilled with seawater and hi-vis sweeps down to 255 m, with KCl/Polymer mud from 255 m to 964 m, with Versatec oil based mud from 964 m to 3900 m, with Paratherm Oil based mud from 3900 m to 4964 m, and with WARP oil based mud from 4964 m to TD.

As prognosed, the Forties Formation was present as a water wet, poorly developed sandstone with argillaceous interbeds. The Jurassic J62 sand (Ula Formation) was penetrated at 5197 m (5181 m TVD) and the Triassic Skagerrak Formation at 5212.5 m (5197 m TVD). A 40 m hydrocarbon column was identified from the top of the J62 sandstone down to a Gas Down To (GDT) at 5237 m (5221 m TVD) in the Triassic Skagerrak Formation. However, with a 9.1 % porosity cut off there were no net pay in the J62 sandstone. In the Triassic 16.5 m net pay with 10% average porosity was estimated. The only oil shows above the oil based muds used in the well was recorded on shales in the Mandal Formation.

No conventional cores were cut and no wire line fluid samples were taken.

The well was plugged back on 16 July 2011 as a minor gas discovery. A sidetrack to a separate prospect (Agn) was decided and initiated.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
270.00	5420.00

Cuttings available for sampling?	YES
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**Lithostratigraphy**

Top depth [mMD RKB]	Lithostrat. unit
119	NORDLAND GP
1606	HORDALAND GP
2899	UNDIFFERENTIATED
3152	ROGALAND GP
3152	BALDER FM
3171	SELE FM
3233	FORTIES FM
3332	LISTA FM
3415	VÅLE FM
3469	SHETLAND GP
3469	EKOFISK FM
3567	TOR FM
4066	HOD FM
4644	BLODØKS FM
4660	HIDRA FM
4807	CROMER KNOLL GP
4807	RØDBY FM
4873	SOLA FM
4888	TUXEN FM
4935	ÅSGARD FM
5059	TYNE GP
5059	MANDAL FM
5082	FARSUND FM
5197	VESTLAND GP
5197	ULA FM
5213	HEGRE GP
5213	SKAGERRAK FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
H-XPT ECRI LEHQT	4958	5349
MSCT	5216	5216
MSCT	5254	5342
MWD - DGR EWR DIR PWD	255	950



MWD - DGR EWR DIR QBAT PWD	970	4964
MWD - DGR EWR GEOTAP PWD QBAT DI	4964	5420
MWD - DIR	119	970
QAIT QSLT QTGC ECRI LEHQT	4860	5421
QAST	131	5325

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	244.0	36	255.0	0.00	LOT
SURF.COND.	20	959.0	26	964.0	1.75	LOT
PILOT HOLE		970.0	12 1/4	970.0	1.97	LOT
INTERM.	13 3/8	3895.0	17 1/2	3900.0	2.30	LOT
INTERM.	10 3/4	4958.0	12 1/4	4964.0	0.00	LOT
OPEN HOLE		5420.0	8 1/2	0.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
122	1.14	13.0		Water Base	
290	1.17	15.0		Water Base	
597	1.58	47.0		Versatec	
970	12.04	14.0		Potassium Base	
1022	1.60	49.0		Versatec	
1039	1.58	40.0		Versatec	
1084	1.64	50.0		Versatec	
1189	1.64	51.0		Versatec	
3900	1.64	65.0		Oil Base	
3950	1.68	35.0		Warp	
3976	1.67	38.0		Paratherm	
4258	1.73	40.0		Paratherm	
4770	1.68	32.0		Warp	
4770	1.69	31.0		Warp	
4857	1.80	42.0		Paratherm	
4964	2.08	50.0		Warp	
4964	1.93	43.0		Paratherm	



4995	2.08	51.0		Warp	
5340	2.17	70.0		Warp	
5420	2.17	72.0		Warp	