

**General information**

Wellbore name	30/6-29 S
Type	EXPLORATION
Purpose	WILDCAT
Status	RE-CLASS TO DEV
Factmaps in new window	link to map
Main area	NORTH SEA
Field	OSEBERG
Discovery	30/6-29 S (Alfa Nord Cook)
Well name	30/6-29
Seismic location	
Production licence	053
Drilling operator	Statoil Petroleum AS
Drill permit	1603-L
Drilling facility	OSEBERG C
Drilling days	57
Entered date	06.01.2015
Completed date	03.03.2015
Release date	03.03.2017
Publication date	15.03.2017
Purpose - planned	WILDCAT
Reclassified to wellbore	30/6-C-8 D
Reentry	NO
Content	OIL
Discovery wellbore	YES
1st level with HC, age	EARLY JURASSIC
1st level with HC, formation	COOK FM
Kelly bushing elevation [m]	62.0
Water depth [m]	109.0
Total depth (MD) [m RKB]	5765.0
Final vertical depth (TVD) [m RKB]	2839.0
Maximum inclination [°]	90.2
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	EIRIKSSON FM
Geodetic datum	ED50
NS degrees	60° 36' 29.43" N
EW degrees	2° 46' 33.76" E
NS UTM [m]	6719324.70
EW UTM [m]	487737.66



UTM zone	31
NPDID wellbore	7801

Wellbore history

General

Well 30/6-29 S is an exploration well that is reclassified from development well 30/6-C-8 DT2. The exploration target was the Alpha Nord Cook prospect underlying the northern part of the Oseberg reservoir. The primary objective was to determine presence of hydrocarbons in the Cook and Eiriksson formations. The secondary objective was to test presence of hydrocarbons in a sandstone which is believed to be re-deposited Brent sandstone on-lapping the Base Cretaceous Unconformity. An equivalent or similar sandstone is penetrated also in wells 30/6-16, 30/6-17 A, 30/6-17 R and in development well 30/6-C21 AT2.

Given a discovery, the well would produce the Alpha Nord Cook.

Operations and results

Wildcat well 30/6-29 S was kicked off on 6 January 2015 from a whipstock in the 9 5/8" liner at 3096 m in development well 30/6-C-8 C. It was drilled with Versatec oil based mud all through.

After drilling horizontally through the Shetland Group for about 2.3 km the well drilled into the secondary target sandstone sequence at 5360 m (2484.3 m TVD MSL). It was oil-bearing with an OWC at 5383.7 m (2498 m TVD MSL). A single pressure point taken in this sandstone indicated pressure depletion and communication with the Oseberg Brent reservoir. The primary target Cook Formation was encountered at 5534 m (2595.5 m TVD MSL). It was oil-bearing down to the OWC at 5562 m (2615.5 m TVD MSL), giving an oil column of 20 m. Pressure points showed an oil gradient with initial un-depleted pressure. The Eiriksson Formation was water bearing. No shows analysis is performed in the well.

No cores were cut and no fluid sample was taken. Well 30/6-29 S was completed 3 March 2015 as an oil discovery.

Testing

No Drill stem test was performed in the 30/6-29 S.

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
3105	SHETLAND GP
3105	UNDIFFERENTIATED
5256	UNDIFFERENTIATED



5293	UNDIFFERENTIATED
5360	NO FORMAL NAME
5396	DUNLIN GP
5396	DRAKE FM
5534	COOK FM
5592	BURTON FM
5735	STATEFJORD GP
5735	EIRIKSSON FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
MWD - AAC BHPR CAL DEN GR MECH N	3093	5283

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
LINER	9 5/8	3090.0	9 5/8	3090.0	1.70	FIT
LINER	7	5698.0	8 1/2	5698.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
3090	1.50	38.0		Versatec	
3103	1.50	41.0		Versatec	
3227	1.35	31.0		Versatec	
3242	1.50	41.0		Versatec	
3294	1.35	29.0		Versatec	
3529	1.50	43.0		Versatec	
3563	1.35	28.0		Versatec	
3808	1.50	37.0		Versatec	
4505	1.35	30.0		Versatec	
5100	1.35	32.0		Versatec	
5765	1.50	67.0		Versatec	