



## General information

Wellbore name	34/11-6 S
Type	EXPLORATION
Purpose	WILDCAT
Status	RE-CLASS TO DEV
Press release	<a href="#">link to press release</a>
Factmaps in new window	<a href="#">link to map</a>
Main area	NORTH SEA
Field	<a href="#">VALEMON</a>
Discovery	<a href="#">34/11-6 S (Valemon Vest)</a>
Well name	34/11-6
Seismic location	
Production licence	<a href="#">193 D</a>
Drilling operator	Statoil Petroleum AS
Drill permit	1641-L
Drilling facility	<a href="#">WEST ELARA</a>
Drilling days	87
Entered date	01.11.2016
Completed date	26.01.2017
Release date	26.01.2019
Publication date	04.04.2019
Purpose - planned	WILDCAT
Reclassified to wellbore	<a href="#">34/11-B-11</a>
Reentry	NO
Content	GAS
Discovery wellbore	YES
1st level with HC, age	JURASSIC
1st level with HC, formation	TARBERT FM
2nd level with HC, age	JURASSIC
2nd level with HC, formation	NESS FM
Kelly bushing elevation [m]	69.0
Water depth [m]	133.5
Total depth (MD) [m RKB]	7126.0
Final vertical depth (TVD) [m RKB]	4405.0
Maximum inclination [°]	67.3
Oldest penetrated age	JURASSIC
Oldest penetrated formation	DRAKE FM
Geodetic datum	ED50
NS degrees	61° 2' 26.72" N



EW degrees	2° 20' 19.68" E
NS UTM [m]	6767667.75
EW UTM [m]	464282.90
UTM zone	31
NPDID wellbore	8059

## Wellbore history

### General

Well 34/11-6 S is an exploration well in Valemon West, located west of the Valemon Main Field in the North Sea. The well objective was to prove and test the Brent Formation for hydrocarbons in the E-segment. If commercial, the well was to be completed and put directly on production from the Valemon platform.

### Operations and results

Wildcat well 34/11-6 S was spudded with the jack-up installation West Elara on 1 November 2016 and drilled to TD at 7126 m (4405 m TVD) m in the Early Jurassic Drake Formation. Lost circulation was experienced in the 17 ½" hole, otherwise operations proceeded without significant problems. The well was drilled with seawater and hi-vis pills down to 356 m, with water-based CMC mud from 356 to 1284 m, with Versatec oil-based mud from 1284 m to 4471 m, and with WARP oil-based mud from 4468 m to TD.

Top Tarbert Formation was encountered at 6837 m (4154 m TVD). Tarbert and Ness Formations were gas bearing down to 6985 m (4281 m TVD). Tarbert and Ness lie on two different gas gradients, with the Ness gas gradient 4 bar higher than the Tarbert gradient.

A gas peak of max 8% was observed at 2446 m in the upper part of the sand interval in Lista Formation. Any hydrocarbon fluorescence that could have been present was masked by the OBM and therefore detection of oil shows in the cuttings was not feasible.

No cores were cut. No fluid sample was taken on wireline, but single-phase fluid samples taken at the well head contained 3.6% CO<sub>2</sub>, 84.6% methane and 11.6% C<sub>2+</sub> hydrocarbons.

The well was completed on 26 January as a gas discovery. On 2 February it was re-classified as a producer with well name 34/11-B-11.

### Testing

No drill stem test was performed.

## Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
4510.00	7126.00



Cuttings available for sampling?	YES
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### Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
203	<a href="#">NORDLAND GP</a>
893	<a href="#">UTSIRA FM</a>
1068	<a href="#">HORDALAND GP</a>
1301	<a href="#">UNDEFINED GP</a>
2218	<a href="#">ROGALAND GP</a>
2218	<a href="#">BALDER FM</a>
2307	<a href="#">SELE FM</a>
2322	<a href="#">LISTA FM</a>
2624	<a href="#">SHETLAND GP</a>
2624	<a href="#">JORSALFARE FM</a>
2626	<a href="#">SHETLAND GP</a>
3205	<a href="#">KYRRE FM</a>
4841	<a href="#">TRYGGVASON FM</a>
5978	<a href="#">SVARTE FM</a>
6208	<a href="#">CROMER KNOLL GP</a>
6208	<a href="#">RØDBY FM</a>
6260	<a href="#">SOLA FM</a>
6414	<a href="#">ÅSGARD FM</a>
6525	<a href="#">MIME FM</a>
6538	<a href="#">VIKING GP</a>
6538	<a href="#">DRAUPNE FM</a>
6599	<a href="#">HEATHER FM</a>
6837	<a href="#">BRENT GP</a>
6837	<a href="#">TARBERT FM</a>
6944	<a href="#">NESS FM</a>
7033	<a href="#">ETIVE FM</a>
7057	<a href="#">RANNOCH FM</a>
7105	<a href="#">DUNLIN GP</a>
7105	<a href="#">DRAKE FM</a>

### Logs



Log type	Log top depth [m]	Log bottom depth [m]
MWD	203	367
MWD - GR RES ECD	367	6563
MWD - GR RES ECD DEN NEU PRES SO	6563	7126

### 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	367.0	36	367.5	0.00	
SURF.COND.	20	1277.0	26	1284.0	0.00	
INTERM.	13 5/8	4437.9	17 1/2	4468.0	1.86	FIT
INTERM.	9 7/8	6553.0	12 1/4	6563.0	2.11	FIT
LINER	7	7082.5	8 1/2	7126.0	0.00	

### Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
367	1.35	25.0		CMC Spud	
367	1.03	25.0		Spud Mud	
367	1.35	30.0		Glydril	
431	1.04	12.0		Spud Mud	
572	1.18	11.0		Spud Mud	
754	1.16	14.0		Spud Mud	
1284	1.14	18.0		Spud Mud	
1284	1.09	17.0		Spud Mud	
1632	1.39	35.0		Versatec	
1854	1.42	36.0		Versatec	
1939	1.46	38.0		Versatec	
4468	1.46	42.0		Versatec	
4470	1.73	54.0		WARP	
6446	1.74	55.0		WARP	
6576	1.98	50.0		WARP	
6728	1.97	49.0		WARP	
6760	1.98	49.0		WARP	
6814	1.97	48.0		WARP	
6831	1.96	48.0		WARP	



6871	1.95	47.0		WARP	
6974	1.96	48.0		WARP	
7032	1.95	53.0		WARP	
7054	1.96	54.0		WARP	
7126	1.96	60.0		WARP	