

**General information**

Wellbore name	2/5-13
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	2/5-13
Seismic location	3D survey VGCNS-05-inline6648 & crossline 18857
Production licence	296
Drilling operator	StatoilHydro Petroleum AS
Drill permit	1203-L
Drilling facility	WEST EPSILON
Drilling days	119
Entered date	25.09.2008
Completed date	21.01.2009
Release date	21.01.2011
Publication date	03.01.2011
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	45.5
Water depth [m]	65.0
Total depth (MD) [m RKB]	4675.0
Final vertical depth (TVD) [m RKB]	4675.0
Maximum inclination [°]	0.8
Bottom hole temperature [°C]	169
Oldest penetrated age	LATE TRIASSIC
Oldest penetrated formation	SKAGERRAK FM
Geodetic datum	ED50
NS degrees	56° 42' 3.6" N
EW degrees	3° 23' 27" E
NS UTM [m]	6284311.84
EW UTM [m]	523933.48
UTM zone	31
NPDID wellbore	5948

**Wellbore history****General**

Well 2/5-13 was drilled on the Steinbit Terrace in the North Sea. The objective of the well was to test the hydrocarbon potential in the Verona prospect, with the Ula Formation as the primary target, and the Bryne/Skagerrak fm's sandstones as the secondary target.

Operations and results

Wildcat well 2/5-13 was spudded with the jack-up installation West Epsilon on 25 September 2008 and drilled to TD at 4675 in Late Triassic, Carnian age sediments of the Skagerrak Formation. The well started with a 36" hole down to 224 m followed by a 9 7/8" pilot hole down to 953 m. No shallow gas was observed by the ROV or by the MWD in the pilot hole. The rig had 21 days down time after completion of the well due to bad weather. Also, problems with obtaining good pressure test on the 9 7/8" liner hanger at 4211 m caused 77 hours down time. The well was drilled with spud mud down to 953 m and with XP-07 oil based mud from 953 m to TD.

The well penetrated rocks of Quaternary, Tertiary, Cretaceous, Jurassic, and Triassic age. No Ula Formation reservoir sandstone was present in the well. This was confirmed by biostratigraphic analysis. The secondary objective sandstones of the Bryne and Skagerrak Formations were however penetrated. Top Bryne Formation was found at 4525 m, 37 m shallower than prognosis, whereas Top Skagerrak Formation was found at 4567 m, 15 m deeper than prognosis. No hydrocarbons were proven in the well. No oil shows were observed in the cuttings. A pore pressure of 2.03 g/cm³ was measured at 4531 m, close to the top of the reservoir, with the LWD formation pressure tool.

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

The well was completed on 21 January 2009 as a dry well. The rig waited on weather for 21 days, up to 14 February, before it could move off location.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
230.00	4675.00

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

Sample depth	Depth unit	Sample type	Laboratory
630.0	[m]	DC	FUGRO
670.0	[m]	DC	FUGRO



710.0 [m]	DC	FUGRO
750.0 [m]	DC	FUGRO
790.0 [m]	DC	FUGRO
830.0 [m]	DC	FUGRO
870.0 [m]	DC	FUGRO
910.0 [m]	DC	FUGRO
950.0 [m]	DC	FUGRO
990.0 [m]	DC	FUGRO
1030.0 [m]	DC	FUGRO
1070.0 [m]	DC	FUGRO
1110.0 [m]	DC	FUGRO
1150.0 [m]	DC	FUGRO
1190.0 [m]	DC	FUGRO
1230.0 [m]	DC	FUGRO
1270.0 [m]	DC	FUGRO
1310.0 [m]	DC	FUGRO
1350.0 [m]	DC	FUGRO
1390.0 [m]	DC	FUGRO
1430.0 [m]	DC	FUGRO
1470.0 [m]	DC	FUGRO
1510.0 [m]	DC	FUGRO
1550.0 [m]	DC	FUGRO
1590.0 [m]	DC	FUGRO
1630.0 [m]	DC	FUGRO
1670.0 [m]	DC	FUGRO
1710.0 [m]	DC	FUGRO
1750.0 [m]	DC	FUGRO
1790.0 [m]	DC	FUGRO
1830.0 [m]	DC	FUGRO
1870.0 [m]	DC	FUGRO
1910.0 [m]	DC	FUGRO
1950.0 [m]	DC	FUGRO
1990.0 [m]	DC	FUGRO
2030.0 [m]	DC	FUGRO
2070.0 [m]	DC	FUGRO
2110.0 [m]	DC	FUGRO
2150.0 [m]	DC	FUGRO
2190.0 [m]	DC	FUGRO
2230.0 [m]	DC	FUGRO
2270.0 [m]	DC	FUGRO



2310.0	[m]	DC	FUGRO
2350.0	[m]	DC	FUGRO
2430.0	[m]	DC	FUGRO
2470.0	[m]	DC	FUGRO
2510.0	[m]	DC	FUGRO
2550.0	[m]	DC	FUGRO
2590.0	[m]	DC	FUGRO
2630.0	[m]	DC	FUGRO
2670.0	[m]	DC	FUGRO
2710.0	[m]	DC	FUGRO
2750.0	[m]	DC	FUGRO
2790.0	[m]	DC	FUGRO
2830.0	[m]	DC	FUGRO
2870.0	[m]	DC	FUGRO
2950.0	[m]	DC	FUGRO
2990.0	[m]	DC	FUGRO
3030.0	[m]	DC	FUGRO
3070.0	[m]	DC	FUGRO
3110.0	[m]	DC	FUGRO
3150.0	[m]	DC	FUGRO
4243.0	[m]	DC	FUGRO
4246.0	[m]	DC	FUGRO
4249.0	[m]	DC	FUGRO
4252.0	[m]	DC	FUGRO
4255.0	[m]	DC	FUGRO
4258.0	[m]	DC	FUGRO
4261.0	[m]	DC	FUGRO
4264.0	[m]	DC	FUGRO
4267.0	[m]	DC	FUGRO
4273.0	[m]	DC	FUGRO
4276.0	[m]	DC	FUGRO
4279.0	[m]	DC	FUGRO
4282.0	[m]	DC	FUGRO
4285.0	[m]	DC	FUGRO
4288.0	[m]	DC	FUGRO
4291.0	[m]	DC	FUGRO
4294.0	[m]	DC	FUGRO
4297.0	[m]	DC	FUGRO
4300.0	[m]	DC	FUGRO
4303.0	[m]	DC	FUGRO



4306.0 [m]	DC	FUGRO
4309.0 [m]	DC	FUGRO
4312.0 [m]	DC	FUGRO
4324.0 [m]	DC	FUGRO
4327.0 [m]	DC	FUGRO
4330.0 [m]	DC	FUGRO
4333.0 [m]	DC	FUGRO
4336.0 [m]	DC	FUGRO
4339.0 [m]	DC	FUGRO
4342.0 [m]	DC	FUGRO
4345.0 [m]	DC	FUGRO
4348.0 [m]	DC	FUGRO
4351.0 [m]	DC	FUGRO
4354.0 [m]	DC	FUGRO
4357.0 [m]	DC	FUGRO
4360.0 [m]	DC	FUGRO
4366.0 [m]	DC	FUGRO
4369.0 [m]	DC	FUGRO
4372.0 [m]	DC	FUGRO
4375.0 [m]	DC	FUGRO
4378.0 [m]	DC	FUGRO
4381.0 [m]	DC	FUGRO
4384.0 [m]	DC	FUGRO
4450.0 [m]	DC	FUGRO
4495.0 [m]	DC	FUGRO
4498.0 [m]	DC	FUGRO
4501.0 [m]	DC	FUGRO
4504.0 [m]	DC	FUGRO
4507.0 [m]	DC	FUGRO
4510.0 [m]	DC	FUGRO
4513.0 [m]	DC	FUGRO
4516.0 [m]	DC	FUGRO
4519.0 [m]	DC	FUGRO
4522.0 [m]	DC	FUGRO
4525.0 [m]	DC	FUGRO
4528.0 [m]	DC	FUGRO
4579.0 [m]	DC	FUGRO
4639.0 [m]	DC	FUGRO
4642.0 [m]	DC	FUGRO
4648.0 [m]	DC	FUGRO



4651.0	[m]	DC	FUGRO
4654.0	[m]	DC	FUGRO
4657.0	[m]	DC	FUGRO
4660.0	[m]	DC	FUGRO
4663.0	[m]	DC	FUGRO
4666.0	[m]	DC	FUGRO
4669.0	[m]	DC	FUGRO
4672.0	[m]	DC	FUGRO
4675.0	[m]	DC	FUGRO

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
110	NORDLAND GP
1784	HORDALAND GP
3084	ROGALAND GP
3084	BALDER FM
3093	SELE FM
3102	LISTA FM
3198	VÅLE FM
3222	SHETLAND GP
3222	EKOFISK FM
3337	TOR FM
3790	HOD FM
4258	BLODØKS FM
4276	HIDRA FM
4320	TYNE GP
4320	FARSUND FM
4456	HAUGESUND FM
4525	VESTLAND GP
4525	BRYNE FM
4576	NO GROUP DEFINED
4576	SKAGERRAK FM

Geochemical information

Document name	Document format	Document size [MB]
5948_01_2_5_13_gch_transfer_1	txt	0.00





5948 02 2 5 13 gch results 1	txt	0.06
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Logs

Log type	Log top depth [m]	Log bottom depth [m]
HLDS HAPS GR	4211	4676
LA ZOVSP	700	4145
MSIP GR	4211	4676
MWD - GR RES PWD	224	4208
MWD - GR RES PWD STETHOSCOPE	4211	4675
ZOVSP	4211	4659

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	219.0	36	224.0	1.10	LOT
SURF.COND.	20	940.0	26	953.0	1.82	LOT
INTERM.	14	2989.0	17 1/2	3000.0	1.89	LOT
INTERM.	9 7/8	4210.0	12 1/4	4211.0	2.15	LOT
OPEN HOLE		4675.0	8 1/2	4675.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
224	1.45	24.0		Spud Mud	
460	1.64	30.0		Spud Mud	
905	1.64	33.0		Spud Mud	
953	1.45	32.0		XP-07 - #14	
1385	1.55	26.0		XP-07 - #14	
1531	1.60	30.0		XP-07 - #14	
2287	1.64	29.0		XP-07 - #14	
3000	1.64	29.0		XP-07 - #14	
3040	1.67	30.0		XP-07 - #14	
3425	1.67	28.0		XP-07 - #14	
3833	1.69	30.0		XP-07 - #14	





4060	2.07	40.0		OBM-Low ECD- HTHP	
4105	1.70	22.0		XP-07 - #14	
4124	1.70	24.0		XP-07 - #14	
4211	1.70	23.0		XP-07 - #14	
4269	2.06	36.0		OBM-Low ECD- HTHP	
4300	2.06	38.0		OBM-Low ECD- HTHP	
4400	2.07	37.0		OBM-Low ECD- HTHP	
4675	2.07	38.0		OBM-Low ECD- HTHP	