General information

Wellbore name	34/8-14 A
Type	EXPLORATION
Purpose	APPRAISAL
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	NORTH SEA
Field	VISUND SØR
Discovery	34/8-14 S Visund Sør
Well name	34/8-14
Seismic location	Survey ST0404-inline 1360 & crossline 1556
Production licence	120
Drilling operator	StatoilHydro ASA
Drill permit	1207-L
Drilling facility	BORGLAND DOLPHIN
Drilling days	34
Entered date	29.10.2008
Completed date	01.12.2008
Release date	01.12.2010
Publication date	01.12.2010
Purpose - planned	APPRAISAL
Reentry	NO
Content	OIL/GAS
Discovery wellbore	NO
1st level with HC, age	MIDDLE JURASSIC
1st level with HC, formation	TARBERT FM
2nd level with HC, age	MIDDLE JURASSIC
2nd level with HC, formation	NESS FM
Kelly bushing elevation [m]	31.0
Water depth [m]	292.0
Total depth (MD) [m RKB]	3838.0
Final vertical depth (TVD) [m RKB]	3075.2
Maximum inclination [°]	58.4
Bottom hole temperature [°C]	113
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	DRAKE FM
Geodetic datum	ED50

NS degrees	61° 18' 37.9'' N
EW degrees	2° 20' 32.9'' E
NS UTM [m]	6797715.24
EW UTM [m]	464783.40
UTM zone	31
NPDID wellbore	5954

Wellbore history

General

Well 34/8-14 S with geological sidetracks A, B, C, and D were drilled on the Pan/Pandora prospect on the structural trend between the Visund and the Gimle Fields in the northern North Sea. The western part of the structure, the Pan structure, is defined by rotated fault blocks while the eastern part, the Pandora structure, consists of slided degradational blocks. The general objective of all the wells was to test the hydrocarbon potential in the structure. Wells 34/8-14 S (Pan) and 34/8-14 A (Pandora) were drilled to provide important information on the hydrocarbon phases and HC/water contacts. Both wells both proved hydrocarbons and sidetracks B, C, and D were subsequently drilled to further delineate hydrocarbon contacts and reserves.

Operations and results

Appraisal well 34/8-14 A was kicked off at 1282 m in well 34//8-14 S with the semi-submersible installation Borgland Dolphin on 20 October 2008 and drilled to TD at 3838 m (3075 m TVD) in the Early Jurassic Drake Formation. The well was drilled with XP-07 OBM from kick-off to TD.

Top Brent Group in well 34/8-14 A was encountered at 3500 m (2849 m TVD RKB) and proved to be oil and gas bearing. The quality of the reservoir sandstones of the Tarbert Formation was excellent. A GOC was found at 3579 m (2902 m TVD RKB). Oil was found down-to the Ness shales at 3591 m (2910 m TVD RKB). Above top Brent Group no oil shows were observed, and gas levels were low.

Three cores were cut from 3504.6 to 3570 m in well 34/8-14 A. The MDT was run for pressure points and fluid samples. Samples were obtained at 3514 m (gas), 3574 m (gas), and 3585 m (oil).

The well was plugged back and permanently abandoned on 1 December 2008 as an oil and gas appraisal well.

Testing

No drill stem test was performed.

Cores at the Norwegian Offshore Directorate

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	3504.6	3531.7	[m]
2	3532.0	3550.8	[m]

3	3558.0	3569.5	[m]

Total core sample length [m]	57.3
Cores available for sampling?	YES

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
2060.0	[m]	DC	BIOSTRAT
2080.0	[m]	DC	BIOSTR
2100.0	[m]	DC	BIOSTR
2120.0	[m]	DC	BIOSTR
2140.0	[m]	DC	BIOSTR
2160.0	[m]	DC	BIOSTR
2180.0	[m]	DC	BIOSTR
2200.0	[m]	DC	BIOSTR
2210.0	[m]	DC	BIOSTR
2250.0	[m]	DC	BIOSTR
2260.0	[m]	DC	BIOSTR
2280.0	[m]	DC	BIOSTR
2300.0	[m]	DC	BIOSTR
2320.0	[m]	DC	BIOSTR
2340.0	[m]	DC	BIOSTR
2360.0	[m]	DC	BIOSTR
2380.0	[m]	DC	BIOSTR
2400.0	[m]	DC	BIOSTR
2420.0	[m]	DC	BIOSTR
2430.0	[m]	DC	BIOSTR
2460.0	[m]	DC	BIOSTR
2480.0	[m]	DC	BIOSTR
2500.0	[m]	DC	BIOSTR
2520.0	[m]	DC	BIOSTR
2540.0	[m]	DC	BIOSTR
2560.0	[m]	DC	BIOSTR
2570.0	[m]	DC	BIOSTR
2600.0	[m]	DC	BIOSTR
2620.0	[m]	DC	BIOSTR
2640.0	[m]	DC	BIOSTR
2660.0	[m]	DC	BIOSTR

2680.0	[m]	DC	BIOSTR
2700.0	[m]	DC	BIOSTR
2720.0	[m]	DC	BIOSTR
2740.0	[m]	DC	BIOSTR
2760.0	[m]	DC	BIOSTR
2780.0	[m]	DC	BIOSTR
2800.0	[m]	DC	BIOSTR
2820.0	[m]	DC	BIOSTR
2840.0	[m]	DC	BIOSTR
2860.0	[m]	DC	BIOSTR
2880.0	[m]	DC	BIOSTR
2900.0	[m]	DC	BIOSTR
2920.0	[m]	DC	BIOSTR
2940.0	[m]	DC	BIOSTR
2960.0	[m]	DC	BIOSTR
2980.0	[m]	DC	BIOSTR
3000.0	[m]	DC	BIOSTR
3020.0	[m]	DC	BIOSTR
3040.0	[m]	DC	BIOSTR
3060.0	[m]	DC	BIOSTR
3080.0	[m]	DC	BIOSTR
3100.0	[m]	DC	BIOSTR
3120.0	[m]	DC	BIOSTR
3140.0	[m]	DC	BIOSTR
3160.0	[m]	DC	BIOSTR
3180.0	[m]	DC	BIOSTR
3200.0	[m]	DC	BIOSTR
3220.0	[m]	DC	BIOSTR
3240.0	[m]	DC	BIOSTR
3260.0	[m]	DC	BIOSTR
3280.0	[m]	DC	BIOSTR
3300.0	[m]	DC	BIOSTR
3320.0	[m]	DC	BIOSTR
3340.0	[m]	DC	BIOSTR
3360.0	[m]	DC	BIOSTR
3380.0	[m]	DC	BIOSTR
3400.0	[m]	DC	BIOSTR
3410.0	[m]	DC	BIOSTR
3420.0	[m]	DC	BIOSTR
3430.0	[m]	DC	BIOSTR

3440.0	[m]	DC	BIOSTR
3450.0	[m]	DC	BIOSTR
3460.0	[m]	DC	BIOSTR
3470.0	[m]	DC	BIOSTR
3475.0	[m]	DC	BIOSTR
3480.0	[m]	DC	BIOSTR
3485.0	[m]	DC	BIOSTR
3490.0	[m]	DC	BIOSTR
3495.0	[m]	DC	BIOSTR
3500.0	[m]	DC	BIOSTR
3570.0	[m]	DC	BIOSTR
3580.0	[m]	DC	BIOSTR
3590.0	[m]	DC	BIOSTR
3600.0	[m]	DC	BIOSTR
3610.0	[m]	DC	BIOSTR
3620.0	[m]	DC	BIOSTR
3630.0	[m]	DC	BIOSTR
3640.0	[m]	DC	BIOSTR
3650.0	[m]	DC	BIOSTR
3660.0	[m]	DC	BIOSTR
3670.0	[m]	DC	BIOSTR
3680.0	[m]	DC	BIOSTR
3690.0	[m]	DC	BIOSTR
3700.0	[m]	DC	BIOSTR
3705.0	[m]	DC	BIOSTR
3710.0	[m]	DC	BIOSTR
3715.0	[m]	DC	BIOSTR
3720.0	[m]	DC	BIOSTR
3725.0	[m]	DC	BIOSTR
3730.0	[m]	DC	BIOSTR
3735.0	[m]	DC	BIOSTR
3740.0	[m]	DC	BIOSTR
3745.0	[m]	DC	BIOSTR
3750.0	[m]	DC	BIOSTR
3755.0	[m]	DC	BIOSTR
3760.0	[m]	DC	BIOSTR
3765.0	[m]	DC	BIOSTR
3770.0	[m]	DC	BIOSTR
3775.0	[m]	DC	BIOSTR
3780.0	[m]	DC	BIOSTR

3785.0	[m]	DC	BIOSTR
3790.0	[m]	DC	BIOSTR
3795.0	[m]	DC	BIOSTR
3800.0	[m]	DC	BIOSTR
3805.0	[m]	DC	BIOSTR
3810.0	[m]	DC	BIOSTR
3815.0	[m]	DC	BIOSTR
3820.0	[m]	DC	BIOSTR
3825.0	[m]	DC	BIOSTR
3830.0	[m]	DC	BIOSTR
3835.0	[m]	DC	BIOSTR
3838.0	[m]	DC	BIOSTR

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
323	NORDLAND GP
1002	UTSIRA FM
1115	HORDALAND GP
1397	NO FORMAL NAME
1452	NO FORMAL NAME
1482	NO FORMAL NAME
1507	NO FORMAL NAME
1915	ROGALAND GP
1915	BALDER FM
2011	SELE FM
2028	LISTA FM
2187	SHETLAND GP
2187	JORSALFARE FM
2376	KYRRE FM
3449	CROMER KNOLL GP
3471	VIKING GP
3471	DRAUPNE FM
3474	HEATHER FM
3500	BRENT GP
3500	TARBERT FM
3540	NESS FM
3572	ETIVE FM
3617	RANNOCH FM

3720	DUNLIN GP
3720	DRAKE FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
LWD - CORE ASSY	3504	3570
LWD - GR RES	1257	2246
LWD - GR RES DEN NEU SVWD	1257	2246
LWD - GR RES DEN NEU SVWD	3570	3838
MDT	3514	3610
MDT	3580	3585
SONIC SCANNER OBMI	1775	3800

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
INTERM.	9 5/8	2239.0	12 1/4	2246.0	0.00	LOT
OPEN HOLE		3838.0	8 1/2	3838.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
1352	1.39	17.0		OBM-Low ECD	
1723	1.48	23.0		OBM-Low ECD	
2260	1.55	17.0		OBM-Low ECD	
2304	1.60	16.0		OBM-Low ECD	
2451	1.60	20.0		OBM-Low ECD	
3570	1.60	18.0		OBM-Low ECD	
3838	1.60	20.0		OBM-Low ECD	