

**General information**

Wellbore name	2/5-12
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	2/5-12
Seismic location	STTM-94 Inline 1184 Crossline 1515
Production licence	006 C
Drilling operator	Amerada Hess Norge AS
Drill permit	1022-L
Drilling facility	TRANSOCEAN NORDIC
Drilling days	86
Entered date	24.11.2001
Completed date	22.02.2002
Release date	22.02.2004
Publication date	27.02.2004
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL SHOWS
Discovery wellbore	NO
Kelly bushing elevation [m]	39.3
Water depth [m]	58.4
Total depth (MD) [m RKB]	4153.0
Final vertical depth (TVD) [m RKB]	4152.0
Maximum inclination [°]	2.1
Bottom hole temperature [°C]	130
Oldest penetrated age	LATE JURASSIC
Oldest penetrated formation	FARSUND FM
Geodetic datum	ED50
NS degrees	56° 43' 18.5" N
EW degrees	3° 34' 50.81" E
NS UTM [m]	6286710.19
EW UTM [m]	535545.53
UTM zone	31
NPDID wellbore	4433



Wellbore history

General

Well 2/5-12 is located ca 15 km northeast of the TOR field on the Steinbit Terrace in the Central Graben. The objective of drilling well 2/5-12 was to test the hydrocarbon potential of the Upper Jurassic section within a four-way dip closure. A thick wedge of Jurassic deposits was identifiable from seismic. Mapping suggested the reason for the thickened section was due to an influx of sand from the shelf to the northeast. The primary target horizons were the R 1 and R 2 units within the Upper Jurassic Farsund Formation. These were thought to be lateral equivalents of the Gyda Sandstone seen in wells 2/2-1 and 2/2-4. The reservoir was thought to be sealed by Upper Jurassic shales. The four-way dip closure was formed during the Late Cretaceous to Palaeocene by inversion of a Jurassic fault. Subsequently it was covered by Palaeocene and younger post-rift sag sediments. The structure onlaps Late Cretaceous shales and chalks.

Operations and results

Wildcat well was spudded with the jack-up installation Transocean Nordic on 24 November 2001 and drilled to TD in the Late Jurassic Farsund Formation. The well was drilled with seawater and gel sweeps down to 954 m, with KCl/Glycol mud from 954 m to 2381 m, and with XP07 oil based mud from 2381 m to TD. The well proceeded generally as planned without any really major problems. Data acquisition went according to plan with the exception of the 17.5" wire line logging run, which had to be dropped due to severe well bore stability problems.

All the easily identifiable lithostratigraphic tops and log markers came in deeper than prognosed by circa 60 m. The prognosed sandstone reservoirs in R1 and R2 were absent. Shows were recorded in claystones of the Mandal and Farsund Formations. Pore pressures in the Tertiary were higher than prognosed, but were as prognosed in the Cretaceous and in line with expectations in the Jurassic. Drilling terminated 71 m above planned TD when the kick margin was lost. No cores were cut and no fluid samples were taken. At this point the whole of the R1 unit and the better part of the R2 unit had been drilled fulfilling the well objectives. The well was permanently abandoned on 22 February 2002 as a dry well.

Testing

No drill stem test was performed

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
180.00	2400.00

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



Sample depth	Depth unit	Sample type	Laboratory
3689.0	[m]	DC	GEOLAB
3692.0	[m]	DC	GEOLAB
3695.0	[m]	DC	GEOLAB
3698.0	[m]	DC	GEOLAB
3701.0	[m]	DC	GEOLAB
3704.0	[m]	DC	GEOLAB
3713.0	[m]	DC	GEOLAB
3719.0	[m]	DC	GEOLAB
3725.0	[m]	DC	GEOLAB
3740.0	[m]	DC	GEOLAB
3743.0	[m]	DC	GEOLAB
3746.0	[m]	DC	GEOLAB
3752.0	[m]	DC	GEOLAB
3755.0	[m]	DC	GEOLAB
3758.0	[m]	DC	GEOLAB
3761.0	[m]	DC	GEOLAB
3764.0	[m]	DC	GEOLAB
3770.0	[m]	DC	GEOLAB
3773.0	[m]	DC	GEOLAB
3776.0	[m]	DC	GEOLAB
3779.0	[m]	DC	GEOLAB
3782.0	[m]	DC	GEOLAB
3788.0	[m]	DC	GEOLAB
3791.0	[m]	DC	GEOLAB
3794.0	[m]	DC	GEOLAB
3797.0	[m]	DC	GEOLAB
3800.0	[m]	DC	GEOLAB
3806.0	[m]	DC	GEOLAB
3809.0	[m]	DC	GEOLAB
3812.0	[m]	DC	GEOLAB
3816.0	[m]	DC	GEOLAB
3819.0	[m]	DC	GEOLAB
3824.0	[m]	DC	GEOLAB
3827.0	[m]	DC	GEOLAB
3830.0	[m]	DC	GEOLAB
3833.0	[m]	DC	GEOLAB
3836.0	[m]	DC	GEOLAB
3839.0	[m]	DC	GEOLAB
3842.0	[m]	DC	GEOLAB



3845.0	[m]	DC	GEOLAB
3851.0	[m]	DC	GEOLAB
3854.0	[m]	DC	GEOLAB
3857.0	[m]	DC	GEOLAB
3860.0	[m]	DC	GEOLAB
3863.0	[m]	DC	GEOLAB
3866.0	[m]	DC	GEOLAB
3869.0	[m]	DC	GEOLAB
3872.0	[m]	DC	GEOLAB
3875.0	[m]	DC	GEOLAB
3878.0	[m]	DC	GEOLAB
3881.0	[m]	DC	GEOLAB
3884.0	[m]	DC	GEOLAB
3887.0	[m]	DC	GEOLAB
3890.0	[m]	DC	GEOLAB
3893.0	[m]	DC	GEOLAB
3899.0	[m]	DC	GEOLAB
3902.0	[m]	DC	GEOLAB
3905.0	[m]	DC	GEOLAB
3908.0	[m]	DC	GEOLAB
3911.0	[m]	DC	GEOLAB
3914.0	[m]	DC	GEOLAB
3917.0	[m]	DC	GEOLAB
3920.0	[m]	DC	GEOLAB
3923.0	[m]	DC	GEOLAB
3926.0	[m]	DC	GEOLAB
3929.0	[m]	DC	GEOLAB
3932.0	[m]	DC	GEOLAB
3935.0	[m]	DC	GEOLAB
3938.0	[m]	DC	GEOLAB
3941.0	[m]	DC	GEOLAB
3944.0	[m]	DC	GEOLAB
3950.0	[m]	DC	GEOLAB
3953.0	[m]	DC	GEOLAB
3956.0	[m]	DC	GEOLAB
3959.0	[m]	DC	GEOLAB
3962.0	[m]	DC	GEOLAB
3965.0	[m]	DC	GEOLAB
3968.0	[m]	DC	GEOLAB
3971.0	[m]	DC	GEOLAB



3974.0 [m]	DC	GEOLAB
3977.0 [m]	DC	GEOLAB
3980.0 [m]	DC	GEOLAB
3983.0 [m]	DC	GEOLAB
3986.0 [m]	DC	GEOLAB
3989.0 [m]	DC	GEOLAB
3992.0 [m]	DC	GEOLAB
3995.0 [m]	DC	GEOLAB
3998.0 [m]	DC	GEOLAB
4001.0 [m]	DC	GEOLAB
4004.0 [m]	DC	GEOLAB
4007.0 [m]	DC	GEOLAB
4010.0 [m]	DC	GEOLAB
4013.0 [m]	DC	GEOLAB
4016.0 [m]	DC	GEOLAB
4019.0 [m]	DC	GEOLAB
4022.0 [m]	DC	GEOLAB
4025.0 [m]	DC	GEOLAB
4031.0 [m]	DC	GEOLAB
4034.0 [m]	DC	GEOLAB
4037.0 [m]	DC	GEOLAB
4040.0 [m]	DC	GEOLAB
4043.0 [m]	DC	GEOLAB
4046.0 [m]	DC	GEOLAB
4052.0 [m]	DC	GEOLAB
4055.0 [m]	DC	GEOLAB
4058.0 [m]	DC	GEOLAB
4061.0 [m]	DC	GEOLAB
4064.0 [m]	DC	GEOLAB
4067.0 [m]	DC	GEOLAB
4073.0 [m]	DC	GEOLAB
4076.0 [m]	DC	GEOLAB
4079.0 [m]	DC	GEOLAB
4082.0 [m]	DC	GEOLAB
4085.0 [m]	DC	GEOLAB
4088.0 [m]	DC	GEOLAB
4091.0 [m]	DC	GEOLAB
4094.0 [m]	DC	GEOLAB
4097.0 [m]	DC	GEOLAB
4100.0 [m]	DC	GEOLAB



4106.0 [m]	DC	GEOLAB
4112.0 [m]	DC	GEOLAB
4115.0 [m]	DC	GEOLAB
4118.0 [m]	DC	GEOLAB
4121.0 [m]	DC	GEOLAB
4124.0 [m]	DC	GEOLAB
4127.0 [m]	DC	GEOLAB
4130.0 [m]	DC	GEOLAB
4133.0 [m]	DC	GEOLAB
4136.0 [m]	DC	GEOLAB
4139.0 [m]	DC	GEOLAB
4142.0 [m]	DC	GEOLAB
4144.0 [m]	DC	GEOLAB
4151.0 [m]	DC	GEOLAB
4153.5 [m]	DC	GEOLAB

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
98	NORDLAND GP
209	NO FORMAL NAME
251	NO FORMAL NAME
265	NO FORMAL NAME
327	NO FORMAL NAME
338	NO FORMAL NAME
475	NO FORMAL NAME
570	NO FORMAL NAME
687	NO FORMAL NAME
1737	HORDALAND GP
2941	ROGALAND GP
2941	BALDER FM
2962	SELE FM
2986	LISTA FM
3066	VÅLE FM
3087	VIDAR FM
3091	VÅLE FM
3095	SHETLAND GP
3095	EKOFISK FM
3216	TOR FM



3527	HOD FM
3691	CROMER KNOLL GP
3691	ÅSGARD FM
3700	TYNE GP
3700	MANDAL FM
3703	FARSUND FM

Composite logs

Document name	Document format	Document size [MB]
4433	pdf	0.47

Geochemical information

Document name	Document format	Document size [MB]
4433_1	pdf	7.15

Documents - reported by the production licence (period for duty of secrecy expired)

Document name	Document format	Document size [MB]
4433_2_5_12_COMPLETION_LOG	.pdf	8.55
4433_2_5_12_COMPLETION_REPORT	.pdf	29.33

Logs

Log type	Log top depth [m]	Log bottom depth [m]
GR ZO-VSP	1643	3728
MFC GR	11	3560
MWD - DIR	97	174
MWD - DIR	174	970
MWD - DIR DGR EWR4	174	1014
MWD - DIR DGR EWR4 BAT PWD DDR	3730	4153
MWD - DIR DGR EWR4 PWD	970	3565
MWD - DIR DGR EWR4 PWD DDS	3565	3730





TTRM GR ZDEN CN MAC	1876	2757
TTRM GR ZDEN CN MAC	2601	3727

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	32	170.0	36	170.0	0.00	LOT
INTERM.	18 5/8	954.0	26	960.0	1.80	LOT
INTERM.	13 3/8	2381.0	17 1/2	2383.0	1.71	LOT
PROD.	9 5/8	3720.0	12 1/4	3725.0	2.10	LOT
OPEN HOLE		4153.0	8 1/2	4153.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
173	1.03	4.0		SPUD MUD	
969	1.20	25.0		KCL/GLYCOL	
1300	0.14	20.0		KCL/GLYCOL	
1839	0.17	22.0		KCL/GLYCOL	
2153	0.19	23.0		KCL/GLYCOL	
2358	0.19	24.0		KCL/GLYCOL	
2400	0.20	34.0		KCL/GLYCOL	
3218	1.73	29.0		XP07 POBM	
3637	1.73	24.0		XP07 POBM	
3730	1.71	23.0		XP07 POBM	
3842	1.86	33.0		XP07 POBM	
4005	1.90	37.0		XP07 POBM	
4145	1.97	45.0		XP07 POBM	
4153	2.00	50.0		XP07 POBM	
4153	1.04			SEAWATER	