

**General information**

Wellbore name	9/2-6 S
Type	EXPLORATION
Purpose	WILDCAT
Status	RE-CLASS TO DEV
Factmaps in new window	link to map
Main area	NORTH SEA
Field	YME
Discovery	9/2-6 S
Well name	9/2-6
Seismic location	ST 9002-INLINE 1196 & CROSSLINE 325
Production licence	114
Drilling operator	Den norske stats oljeselskap a.s
Drill permit	854-L
Drilling facility	YME
Drilling days	58
Entered date	19.08.1996
Completed date	15.10.1996
Release date	15.10.1998
Publication date	24.09.2002
Purpose - planned	WILDCAT
Reclassified to wellbore	9/2-A-6
Reentry	NO
Content	OIL
Discovery wellbore	YES
1st level with HC, age	MIDDLE JURASSIC
1st level with HC, formation	SANDNES FM
Kelly bushing elevation [m]	42.0
Water depth [m]	93.0
Total depth (MD) [m RKB]	5205.0
Final vertical depth (TVD) [m RKB]	3642.0
Maximum inclination [°]	61.1
Oldest penetrated age	MIDDLE JURASSIC
Oldest penetrated formation	BRYNE FM
Geodetic datum	ED50
NS degrees	57° 49' 7.47" N
EW degrees	4° 31' 10.95" E
NS UTM [m]	6409689.14
EW UTM [m]	590282.12



UTM zone	31
NPDID wellbore	2867

Wellbore history

General

The deviated well 9/2-6 S is located on the Yme Gamma South East structure, and was drilled from slot 6 of the Yme template. The well was planned as an exploration well, being the first well drilled on the South East structure, but would be completed as an oil production well if commercial oil reserves were proven, or sidetracked to the Yme Gamma Vest structure if the oil column was less than 25 m. The well objective was also to evaluate whether the Bryne Formation in this well could be used as an Yme gas injection well.

Operations and results

Wildcat well 9/2-6 S was spudded with the jack-up installation Mærsk Giant on 19 August 1996 and drilled to a total depth of 5205.0 m (3600.8 m TVD SS) in the Middle Jurassic Bryne Formation. The 9/2-6 S well was planned with a "S" shaped profile, in order to drill vertically through the Sandnes Formation in the crestal area of the Gamma South East structure, to the east of the graben separating the South East segment from the Yme Gamma Vest Field. However, due to difficulties dropping angle, a deviation to the plan was made so that the angle would be dropped to 30 deg. The well was drilled with seawater and gelled bentonite pills through the 37 &" hole and with seawater and PAC pills through the 26" hole down to 842 m. KCl/Aquadrill (with glycols) mud was used from 842 m to 2481 m, and with ester-based Petrofree mud from 2481 to TD. From 4845 m and to TD the well was drilled with Neyfor Turbine and diamond bit. The top of the Sandnes Formation reservoir was encountered at 4783 m (3228.7 m TVD SS), and the oil/water-contact was found at 3277.0 m TVD SS, giving an oil column of 48 m. The Sandnes S12 target was penetrated approximately 3085.5 m South East of the platform, at an inclination of 20.4 deg. 12 February 1997. Two cores were cut in the interval 4793 - 4845 m across the OWC in the Sandnes Formation. Core 2 (4808 - 4845 m) retrieved 40.8 m. The extra 3.8 m retrieved in this core is believed to be the lower part of core 1 which had only 70% recovery. One FMT fluid sample was taken at 4809 m in the oil zone in the Sandnes Formation. The plan was to complete the well with a 7" liner through the reservoir section. The completion interval was 4798 - 4821m Sandnes Formation (S11) as planned. Exploration well 9/2-6 S was completed 15 October 1996 as an oil discovery and re-classified to development well 9/2-A-6 (oil producer).

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	4793.0	4802.8	[m]
2	4804.2	4844.2	[m]

Total core sample length [m]	49.8
------------------------------	------



Cores available for sampling?	YES
-------------------------------	-----

Core photos



4793-4798m



4798-4803m



4804-4809m



4809-4814m



4814-4819m



4819-4824m



4824-4829m



4829-4834m



4834-4839m



4839-4844m



4844-4845m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
4571.0	[m]	DC	GEOSTR
4583.0	[m]	DC	GEOSTR
4595.0	[m]	DC	GEOSTR
4607.0	[m]	DC	GEOSTR
4619.0	[m]	DC	GEOSTR
4631.0	[m]	DC	GEOSTR
4643.0	[m]	DC	GEOSTR
4661.0	[m]	DC	GEOSTR
4673.0	[m]	DC	GEOSTR
4685.0	[m]	DC	GEOSTR
4697.0	[m]	DC	GEOSTR



4709.0 [m]	DC	GEOSTR
4721.0 [m]	DC	GEOSTR
4733.0 [m]	DC	GEOSTR
4745.0 [m]	DC	GEOSTR
4757.0 [m]	DC	GEOSTR
4769.0 [m]	DC	GEOSTR
4781.0 [m]	DC	GEOSTR
4790.0 [m]	DC	GEOSTR
4805.0 [m]	C	WESTLB
4819.6 [m]	C	WESTLB
4829.3 [m]	C	WESTLB
4843.3 [m]	C	WESTLB
4852.0 [m]	DC	GEOSTR
4864.0 [m]	DC	GEOSTR
4873.0 [m]	DC	GEOSTR
4888.0 [m]	DC	GEOSTR
4900.0 [m]	DC	GEOSTR
4912.0 [m]	DC	GEOSTR
4921.0 [m]	DC	GEOSTR
4933.0 [m]	DC	GEOSTR
4945.0 [m]	DC	GEOSTR
4957.0 [m]	DC	GEOSTR
4969.0 [m]	DC	GEOSTR
4984.0 [m]	DC	GEOSTR
4993.0 [m]	DC	GEOSTR
5005.0 [m]	DC	GEOSTR
5017.0 [m]	DC	GEOSTR
5026.0 [m]	DC	GEOSTR
5038.0 [m]	DC	GEOSTR
5050.0 [m]	DC	GEOSTR
5062.0 [m]	DC	GEOSTR
5077.0 [m]	DC	GEOSTR
5089.0 [m]	DC	GEOSTR
5104.0 [m]	DC	GEOSTR
5116.0 [m]	DC	GEOSTR
5125.0 [m]	DC	GEOSTR
5137.0 [m]	DC	GEOSTR
5149.0 [m]	DC	GEOSTR
5161.0 [m]	DC	GEOSTR
5173.0 [m]	DC	GEOSTR



5185.0 [m]	DC	GEOSTR
5197.0 [m]	DC	GEOSTR
5205.0 [m]	DC	GEOSTR

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
135	NORDLAND GP
542	HORDALAND GP
739	ROGALAND GP
739	BALDER FM
765	SELE FM
778	LISTA FM
798	VÅLE FM
808	SHETLAND GP
808	EKOFISK FM
878	TOR FM
1188	HOD FM
1626	BLODØKS FM
1681	CROMER KNOLL GP
1681	SOLA FM
1880	ÅSGARD FM
3297	BOKNEFJORD GP
3297	FLEKKEFJORD FM
3800	SAUDA FM
4627	TAU FM
4714	EGERSUND FM
4783	VESTLAND GP
4783	SANDNES FM
4940	BRYNE FM

Composite logs

Document name	Document format	Document size [MB]
2867	pdf	0.51



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

Document name	Document format	Document size [MB]
2867_9_2_6_S_COMPLETION_REPORT_AND_COMPLETION_LOG	pdf	12.13

Logs

Log type	Log top depth [m]	Log bottom depth [m]
FMT QUARTZDYNE CHT GR	4803	4841
HEXDIP CHT GR	824	1726
MLL DLL ZDL CN MAC CHT GR	4785	5102
MWD DGR EWR DIR	200	5205
ZDL CN MAC CHT GR	4759	4920

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
SURF.COND.	30	218.0	36	224.0	0.00	LOT
CONDUCTOR	20	824.0	26	829.0	1.50	LOT
INTERM.	13 3/8	1720.0	17 1/2	1725.0	2.05	LOT
INTERM.	9 5/8	4785.0	12 1/4	4792.0	0.00	LOT
LINER	7	5205.0	8 1/2	5205.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
224	1.03			SEAWATER/BENT.	
380	1.03			SEAWATER/PAC	
797	1.03			SEAWATER/PAC	
829	1.03			SEAWATER/PAC	
832	1.03			DUMMY	
1182	1.45	32.0		KCL/PAC/XANVIS	
1430	1.45	39.0		KCL/PAC/XANVIS	
1478	1.45	46.0		KCL/PAC/XANVIS	
1560	1.45	45.0		KCL/PAC/XANVIS	





1725	1.45	44.0		KCL/PAC/XANVIS	
1761	1.64	32.0		KCL/PAC/XANVIS	
2052	1.64	36.0		KCL/PAC/XANVIS	
2236	1.64	45.0		KCL/PAC/XANVIS	
2290	1.64	40.0		KCL/PAC/XANVIS	
2463	1.60	44.0		KCL/PAC/XANVIS	
2604	1.60	56.0		PETROFREE	
3121	1.60	55.0		PETROFREE	
3670	1.60	52.0		PETROFREE	
3842	1.60	52.0		PETROFREE	
4150	1.60	53.0		PETROFREE	
4204	1.60	51.0		PETROFREE	
4252	1.60	51.0		PETROFREE	
4274	1.60	51.0		PETROFREE	
4606	1.60	53.0		PETROFREE	
4792	1.50	40.0		PETROFREE	
4793	1.20	18.0		KCL/GLYCOL/PHPA	
4808	1.20	21.0		KCL/GLYCOL/PHPA	
4824	1.20	21.0		KCL/GLYCOL/PHPA	
4844	1.35	36.0		KCL/GLYCOL/PHPA	
4845	1.20	21.0		KCL/GLYCOL/PHPA	
4904	1.20	25.0		KCL/GLYCOL/PHPA	
4995	1.20	26.0		KCL/GLYCOL/PHPA	
5100	1.20	27.0		KCL/GLYCOL/PHPA	
5184	1.20	27.0		KCL/GLYCOL/PHPA	
5205	1.20	29.0		KCL/GLYCOL/PHPA	
5205	1.20	29.0		KCL/GLYCOL/PHPA	

Pressure plots

The pore pressure data is sourced from well logs if no other source is specified. In some wells where pore pressure logs do not exist, information from Drill stem tests and kicks have been used. The data has been reported to the NPD, and further processed and quality controlled by IHS Markit.

Document name	Document format	Document size [MB]
2867 Formation pressure (Formasjonstrykk)	PDF	0.22

