

**General information**

Wellbore name	9/2-7 S
Type	EXPLORATION
Purpose	WILDCAT
Status	RE-CLASS TO DEV
Factmaps in new window	link to map
Main area	NORTH SEA
Field	YME
Discovery	9/2-7 S
Well name	9/2-7
Seismic location	ST 9413 INLINE 636 & CROSSLINE 732
Production licence	114
Drilling operator	Den norske stats oljeselskap a.s
Drill permit	887-L
Drilling facility	BYFORD DOLPHIN
Drilling days	50
Entered date	22.04.1997
Completed date	10.06.1997
Release date	10.06.1999
Publication date	24.09.2002
Purpose - planned	WILDCAT
Reclassified to wellbore	9/2-B-3 H
Reentry	NO
Content	OIL
Discovery wellbore	YES
1st level with HC, age	LATE JURASSIC
1st level with HC, formation	SANDNES FM
2nd level with HC, age	MIDDLE JURASSIC
2nd level with HC, formation	BRYNE FM
Kelly bushing elevation [m]	25.0
Water depth [m]	77.0
Total depth (MD) [m RKB]	4099.0
Final vertical depth (TVD) [m RKB]	3393.0
Maximum inclination [°]	50.9
Oldest penetrated age	MIDDLE JURASSIC
Oldest penetrated formation	BRYNE FM
Geodetic datum	ED50
NS degrees	57° 45' 15.15" N
EW degrees	4° 21' 21.75" E



NS UTM [m]	6402298.71
EW UTM [m]	580703.80
UTM zone	31
NPDID wellbore	3087

Wellbore history

General

The deviated well 9/2-7 S was drilled as an exploration well to identify the oil potential in the Beta Vest prospect on the Yme Field in PL 114. The well was drilled in the northern segment of the Beta Vest structure with the sandstones of the Sandnes Formation as the target horizon. The well was planned to be completed as an oil producer and be renamed to 9/2-B-3H.

Operations and results

Wildcat well 9/2-7 S was spudded with the semi-submersible installation "Byford Dolphin" on 22 April 1997 and drilled to a total depth of 4099 m (3369.7 m TVD MSL) in the Middle Jurassic Bryne Formation. It was drilled from slot 3 on the Yme Beta HOST template with an "S" shaped profile in order to drill vertically through the Sandnes Formation. The Sandnes S12 target was penetrated approximately 1757 m North North-West of the template, at an inclination of about 5 deg. A 7" liner was run over the reservoir section. The bottom section from 3923 m to TD was drilled with turbine and diamond bit. The well was drilled with seawater to 1192 m, with KCl polymer mud from 1192 m to 256 m, with ester-based Petrofree mud from 2576 m to 3867 m, and with Aquadrill glycol mud from 3867 m to TD. The well found oil all through the Sandnes Formation. The top of the Sandnes Formation was encountered at 3854 m (3125.6 m TVD MSL), with the top of the Sandnes Formation S11 reservoir sandstone at 3861,7 m (3133,3 m TVD MSL). The oil/water-contact was found in the Bryne Formation sandstones at 4067m MD (3337.9 m TVD MSL). Two cores were cut in the interval 3868 m - 3923 m in the Sandnes Formation. Two FMT fluid samples were taken at 3896 m in the Sandnes Formation oil zone. Exploration well 9/2-7 S was completed 10 June 1997 as an oil discovery and re-classified to development well 9/2-B-3 H.

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	3868.0	3892.2	[m]
2	3892.8	3922.4	[m]

Total core sample length [m]	53.8
Cores available for sampling?	YES



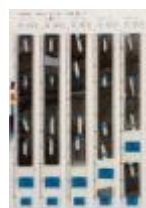
Core photos



3868-3873m



3873-3878m



3878-3883m



3883-3888m



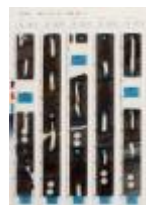
3888-3892m



3892-3897m



3897-3902m



3902-3907m



3907-3912m



3912-3917m



3917-3922m



3922-3923m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
3681.0	[m]	DC	GEOSTR
3690.0	[m]	DC	GEOSTR
3699.0	[m]	DC	GEOSTR
3708.0	[m]	DC	GEOSTR
3717.0	[m]	DC	GEOSTR
3726.0	[m]	DC	GEOSTR
3735.0	[m]	DC	GEOSTR
3744.0	[m]	DC	GEOSTR
3753.0	[m]	DC	GEOSTR
3762.0	[m]	DC	GEOSTR
3771.0	[m]	DC	GEOSTR
3780.0	[m]	DC	GEOSTR
3789.0	[m]	DC	GEOSTR
3798.0	[m]	DC	GEOSTR
3807.0	[m]	DC	GEOSTR



3816.0 [m]	DC	GEOSTR
3825.0 [m]	DC	GEOSTR
3834.0 [m]	DC	GEOSTR
3843.0 [m]	DC	GEOSTR
3852.0 [m]	DC	GEOSTR
3861.0 [m]	DC	GEOSTR
3864.4 [m]	C	WESTL
3871.9 [m]	C	WESTL
3872.5 [m]	C	WESTL
3878.6 [m]	C	WESTL
3885.5 [m]	C	WESTL
3887.5 [m]	C	WESTL
3889.5 [m]	C	WESTL
3893.7 [m]	C	WESTL
3901.8 [m]	C	WESTL
3907.0 [m]	C	WESTL
3908.8 [m]	C	WESTL
3918.9 [m]	C	WESTL
3927.0 [m]	DC	GEOSTR
3936.0 [m]	DC	GEOSTR
3945.0 [m]	DC	GEOSTR
3954.0 [m]	DC	GEOSTR
3963.0 [m]	DC	GEOSTR
3972.0 [m]	DC	GEOSTR
3981.0 [m]	DC	GEOSTR
3990.0 [m]	DC	GEOSTR
3999.0 [m]	DC	GEOSTR
4008.0 [m]	DC	GEOSTR
4017.0 [m]	DC	GEOSTR
4026.0 [m]	DC	GEOSTR
4035.0 [m]	DC	GEOSTR
4044.0 [m]	DC	GEOSTR
4053.0 [m]	DC	GEOSTR
4062.0 [m]	DC	GEOSTR
4071.0 [m]	DC	GEOSTR
4080.0 [m]	DC	GEOSTR
4089.0 [m]	DC	GEOSTR
4095.0 [m]	DC	GEOSTR

**Lithostratigraphy**

Top depth [mMD RKB]	Lithostrat. unit
102	NORDLAND GP
415	HORDALAND GP
945	ROGALAND GP
945	BALDER FM
980	SELE FM
1000	LISTA FM
1043	VÅLE FM
1057	SHETLAND GP
1057	EKOFISK FM
1117	TOR FM
1585	HOD FM
2105	BLODØKS FM
2180	CROMER KNOLL GP
2180	RØDBY FM
2203	SOLA FM
2362	ÅSGARD FM
3062	BOKNFJORD GP
3062	FLEKKEFJORD FM
3182	SAUDA FM
3683	TAU FM
3784	EGERSUND FM
3854	VESTLAND GP
3854	SANDNES FM
3994	BRYNE FM

Composite logs

Document name	Document format	Document size [MB]
3087	pdf	0.68

Geochemical information

Document name	Document format	Document size [MB]
3087_1	pdf	2.00





3087_2	pdf	0.58
------------------------	-----	------

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

Document name	Document format	Document size [MB]
3087_9_2_7_S_COMPLETION_REPORT	pdf	15.36

Logs

Log type	Log top depth [m]	Log bottom depth [m]
FMT QUARTZDYNE CHT GR	3868	4067
MWD RES DIR GR	167	4099
ZDL CN MAC DPIL CHT GR	1185	3863
ZDL DLL MLL CN MAC CHT GR	3855	4086

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	162.0	36	163.0	0.00	LOT
CONDUCTOR	13 3/8	1185.0	17 1/2	1186.0	0.00	LOT
INTERM.	9 5/8	3857.0	12 1/4	3860.0	0.00	LOT
LINER	7	4099.0	8 1/2	4099.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
1192	1.39			SEAWATER/PAC	
1311	1.60	31.0		KCL/PAC/XANVIS	
1687	1.60	32.0		KCL/PAC/PHPA	
1868	1.39	29.0		KCL/PAC/PHPA	
1868	1.39	35.0		KCL/PAC/PHPA	
2169	1.57	45.0		KCL/PAC/PHPA	
2229	1.57	46.0		KCL/PAC/PHPA	
2440	1.57	42.0		KCL/PAC/PHPA	
2576	1.57	44.0		KCL/PAC/PHPA	





2576	1.57	45.0		PETROFREE	
2581	1.60			DUMMY	
2806	1.60	44.0		PETROFREE	
2978	1.60	44.0		PETROFREE	
3088	1.60	42.0		PETROFREE	
3475	1.60	40.0		PETROFREE	
3518	1.60	44.0		PETROFREE	
3723	1.60	39.0		PETROFREE	
3832	1.60	-462.0		PETROFREE	
3852	1.60	-461.0		PETROFREE	
3867	1.60	-461.0		PETROFREE	
3881	1.30	36.0		AQUACOL	
3893	1.30	35.0		KCL/PAC/XANVIS	
3913	1.30	37.0		AQUACOL	
3923	1.30	30.0		KCL/PAC/XANVIS	
4032	1.30	36.0		AQUACOL	
4099	1.30	39.0		AQUACOL	

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]
3087 Formation pressure (Formasjonstrykk)	PDF	0.22

