



General information





Wellbore name	9/2-9 S
Type	EXPLORATION
Purpose	WILDCAT
Status	RE-CLASS TO DEV
Factmaps in new window	link to map
Main area	NORTH SEA
Field	YME
Discovery	9/2-9 S
Well name	9/2-9
Seismic location	ST 9413- INLINE 646 & X-LINE 646
Production licence	114
Drilling operator	Den norske stats oljeselskap a.s
Drill permit	948-L
Drilling facility	BYFORD DOLPHIN
Drilling days	47
Entered date	29.06.1999
Completed date	17.09.1999
Release date	17.09.2001
Publication date	24.09.2002
Purpose - planned	WILDCAT
Reclassified to wellbore	9/2-B-4 H
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]	25.0
Water depth [m]	77.0
Total depth (MD) [m RKB]	4367.0
Final vertical depth (TVD) [m RKB]	3386.0
Oldest penetrated age	MIDDLE JURASSIC
Oldest penetrated formation	BRYNE FM
Geodetic datum	ED50
NS degrees	57° 45' 15.19" N
EW degrees	4° 21' 20.58" E
NS UTM [m]	6402299.56
EW UTM [m]	580684.43
UTM zone	31
NPDID wellbore	3703



Wellbore history

General

Well 9/2-9 S was drilled on the Beta West South structure on the Yme field. The objective of the well was to discover hydrocarbons in sandstones of Middle to Upper Jurassic age (Sandnes and Bryne Formations) in two different fault compartments, to establish the oil-water contact, and to get an exact depth of top Bryne Formation.

Operations and results

The deviated wildcat well 9/2-9 S was spudded with the semi-submersible installation "Byford Dolphin" on 29 June 1999, and drilled to TD at 4367 m (3386 m TVD RKB) in the Middle Jurassic Bryne Formation. The well was drilled with seawater and hi-vis pills down to 1944.5 m and with "Ultidrill" oil based mud from 1944.5 m to TD. The base oil in the "Ultidrill" mud system consists of olefins. The wellbore was suspended after setting the 9 5/8x 10 3/4" casing. After performing completion on wellbore 9/2-B-3H, drilling continued from 3878 m. Top Bryne Formation was penetrated at 4365 m. Definite oil/water contact was proved in The Midde Jurassic. The discovered hydrocarbon pool was modest however, and it was decided not to drill more wells on the Yme structures. One core was cut in the Sandnes Formation from 3995 m to 4012 m. A FMT oil sample was taken at 3990 m in the Sandnes Formation. A 7" Liner was run the 17 September 1999, and the well was re-classed to 9/2-B-4H and completed as an oil discovery.

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	3995.0	4010.7	[m]

Total core sample length [m]	15.7
Cores available for sampling?	YES

Core photos



3995-4000m



4000-4005m



4005-4010m



4010-4011m

**Lithostratigraphy**

Top depth [mMD RKB]	Lithostrat. unit
102	NORDLAND GP
415	HORDALAND GP
940	ROGALAND GP
940	BALDER FM
980	SELE FM
1005	LISTA FM
1045	VÅLE FM
1050	SHETLAND GP
1050	EKOFISK FM
1160	TOR FM
1545	HOD FM
1868	BLODØKS FM
1908	CROMER KNOLL GP
1908	RØDBY FM
1953	SOLA FM
2019	ÅSGARD FM
2710	BOKNEFJORD GP
2710	FLEKKEFJORD FM
2823	SAUDA FM
3551	TAU FM
3669	EGERSUND FM
3844	VESTLAND GP
3844	SANDNES FM
4365	BRYNE FM

Composite logs

Document name	Document format	Document size [MB]
3703	pdf	0.36

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





Document name	Document format	Document size [MB]
3703 9 2 9 S COMPLETION LOG	.pdf	0.79
3703 9 2 9 S COMPLETION REPORT	.pdf	14.30

Logs

Log type	Log top depth [m]	Log bottom depth [m]
FMT CHT GR	3893	4326
MWD GR RES DEN NEU DIR	3995	4367
MWD GR RES DIR PRES	3878	3995
MWD GR RT DIR NBI	1954	3878

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	161.0	36	165.0	0.00	LOT
INTERM.	20	1062.0	26	1071.0	0.00	LOT
INTERM.	13 3/8	1944.0	17 1/2	1954.0	1.60	LOT
INTERM.	9 5/8	3868.0	12 1/4	3878.0	1.61	LOT
OPEN HOLE		4367.0	8 1/2	4367.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
390	1.03			DUMMY	
1071	1.03			DUMMY	
1290	1.03			SEAWATER/BENT.	
1481	1.03			DUMMY	
1621	1.03			DUMMY	
1729	1.03			DUMMY	
1911	1.03			DUMMY	
1954	1.03			SEAWATER/BENT.	
2200	1.56			DUMMY	
2700	1.54	40.0		ULTIDRILL	
3464	1.60	36.0		ULTIDRILL	
3500	1.60	38.0		ULTIDRILL	





3878	1.30	32.0		ULTIDRILL	
3995	1.25	24.0		ULTIDRILL	
4058	1.25	25.0		ULTIDRILL	
4312	1.25	27.0		ULTIDRILL	
4367	1.25	26.0		ULTIDRILL	

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]
3703 Formation pressure (Formasjonstrykk)	PDF	0.21

