

**General information**

Wellbore name	6608/10-3 R
Type	EXPLORATION
Purpose	APPRAISAL
Status	P&A
Factmaps in new window	link to map
Main area	NORWEGIAN SEA
Field	NORNE
Discovery	6608/10-2 Norne
Well name	6608/10-3
Seismic location	B-18-83 & SP. 1345
Production licence	128
Drilling operator	Den norske stats oljeselskap a.s
Drill permit	753-L2
Drilling facility	ROSS ISLE
Drilling days	10
Entered date	08.08.1995
Completed date	17.08.1995
Plugged and abandon date	17.08.1995
Release date	17.08.1997
Publication date	24.09.2002
Purpose - planned	APPRAISAL
Reentry	YES
Reentry activity	TESTING/PLUGGING
Content	OIL/GAS
Discovery wellbore	NO
1st level with HC, age	MIDDLE JURASSIC
1st level with HC, formation	FANGST GP
2nd level with HC, age	EARLY JURASSIC
2nd level with HC, formation	BÅT GP
Kelly bushing elevation [m]	23.0
Water depth [m]	382.0
Total depth (MD) [m RKB]	2921.0
Final vertical depth (TVD) [m RKB]	2919.5
Maximum inclination [°]	5.5
Bottom hole temperature [°C]	115
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	ÅRE FM
Geodetic datum	ED50



NS degrees	66° 2' 6.66" N
EW degrees	8° 4' 57.97" E
NS UTM [m]	7324321.37
EW UTM [m]	458426.47
UTM zone	32
NPDID wellbore	2645

Wellbore history

General

The main objective of well 6608/10-3 was to appraise oil accumulation in the Jurassic Fangst and Båt groups in the Northern Fault Block on the Norne field off shore Mid Norway.

Operations and results

Appraisal well 6608/10-3 was spudded by the semi-submersible installation "Ross Rig" on 7 January 1993 and drilled to a total depth of 2921 m, into rocks of Lower Jurassic age. The well was drilled water based. Seawater/bentonite spud mud was used down to 469 m, seawater/CMC EHV spud mud from 469 m to 874 m, and Gyp/PAC polymer mud from 874 m to TD. Oil and gas was encountered in the Early to Middle Jurassic Båt and Fangst Groups. Eleven cores were cut in the interval 2560 m to 2765 m, from the lower part of the Melke Formation, through the Fangst Group and into the Tilje Formation of the Båt Group. Four segregated FMT samples were taken at 2599.2 m in the Garn Formation (gas, mud filtrate, and small amount of oil), 2603.2 m in the Garn Formation (mud filtrate, gas, and oil), 2624.5 m in the Ile Formation (gas, and oil), and at 2715.2 m in the Tilje Formation (mud filtrate and water with small amount of gas). The well was suspended on 11 March as an oil and gas appraisal well. The well was re-entered on 8 August 1995 with the semi-submersible installation "Ross Isle". The re-entry, 6608/10-3 R, was permanently plugged and abandoned as an oil and gas appraisal well.

Testing

One drill stem test was performed in well 6608/10-3 in the Ile Formation (perforated interval 2617-2648 m). The well produced 1250 Sm³/D of oil with a density of 860 kg/m³ at standard conditions and 102500 Sm³/D of gas with a relative density of 0.65 (air=1.0) through a 60/64" (23.44 mm) choke.

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
402	NORDLAND GP
402	NAUST FM
1368	KAI FM
1592	HORDALAND GP
1592	BRYGGE FM
1858	ROGALAND GP
1858	TARE FM



1915	TANG FM
1951	SHETLAND GP
1951	SPRINGAR FM
2131	NISE FM
2394	CROMER KNOLL GP
2394	LYR FM
2407	VIKING GP
2407	SPEKK FM
2413	MELKE FM
2574	FANGST GP
2574	GARN FM
2610	NOT FM
2617	ILE FM
2657	BÅT GP
2657	TOFTE FM
2712	TILJE FM
2791	ÅRE FM

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

Document name	Document format	Document size [MB]
2645 6608 10 3 R COMPLETION REPORT	pdf	1.89

Drill stem tests (DST)

Test number	From depth MD [m]	To depth MD [m]	Choke size [mm]
1.0	1810	1842	46.0

Test number	Final shut-in pressure [MPa]	Final flow pressure [MPa]	Bottom hole pressure [MPa]	Downhole temperature [°C]
1.0				

Test number	Oil [Sm3/day]	Gas [Sm3/day]	Oil density [g/cm3]	Gas grav. rel.air	GOR [m3/m3]
1.0					



