



### General information

Wellbore name	6407/7-2 R
Type	EXPLORATION
Purpose	APPRAISAL
Status	P&A
Factmaps in new window	<a href="#">link to map</a>
Main area	NORWEGIAN SEA
Field	<a href="#">NJORD</a>
Discovery	<a href="#">6407/7-1 S Njord</a>
Well name	6407/7-2
Seismic location	NH 8604 ROW 235 COLUMN 960
Production licence	<a href="#">107</a>
Drilling operator	Norsk Hydro Produksjon AS
Drill permit	532-L2
Drilling facility	<a href="#">VILDKAT EXPLORER</a>
Drilling days	55
Entered date	07.03.1990
Completed date	30.04.1990
Plugged and abondon date	20.07.2000
Release date	30.04.1992
Publication date	09.03.2009
Purpose - planned	WILDCAT
Reentry	YES
Reentry activity	TESTING
Content	OIL
Discovery wellbore	NO
1st level with HC, age	MIDDLE JURASSIC
1st level with HC, formation	ILE FM
2nd level with HC, age	EARLY JURASSIC
2nd level with HC, formation	TILJE FM
Kelly bushing elevation [m]	25.0
Water depth [m]	338.0
Total depth (MD) [m RKB]	3322.0
Final vertical depth (TVD) [m RKB]	3321.0
Maximum inclination [°]	4
Bottom hole temperature [°C]	113
Oldest penetrated age	LATE TRIASSIC
Oldest penetrated formation	RED BEDS (INFORMAL)
Geodetic datum	ED50



NS degrees	64° 15' 26.39" N
EW degrees	7° 10' 42.65" E
NS UTM [m]	7127130.16
EW UTM [m]	411732.18
UTM zone	32
NPDID wellbore	1513

## Wellbore history

### General

Well 6407/7-2 R is a re-entry of well 6407/7-2 on the Njord Discovery. The purpose of the re-entry was to conduct a long term production test in order to determine the fault compartment volume, to determine the threshold pressures and degree of communication through faults, to establish the intervals contributing to the flow, to determine reservoir productivity and initial reservoir conditions, and to obtain representative fluid samples.

### Operations and results

Well 6407/7-2 was re-entered with the semi-submersible installation Vildkat Explorer on 7 March 1990.

Two test strings were run sequentially. The first string was a test string to enable a conventional well test to be conducted. Most of the upper part of this test string was later pulled and replaced by an abandonment string with gauges to allow long term monitoring of the main build up.

The gauges were programmed to record data over a period of 4 to 6 months. The well was subsequently abandoned for later re-entry and retrieval of the gauges and permanent abandonment.

### Testing

A conventional long-term production test was carried out from the combined intervals 2773.3 - 2778.3 m, 2781.3 - 2797.8 m, 2803.8 - 2839.3 m, and 2844.3 - 2879.3 m. In the main flow the test produced 853 Sm3 oil and 173650 Sm3 gas through a 20.64 mm choke. The GOR was 203 Sm3/Sm3, the oil density was 0.800 g /cm3, and the gas gravity was 0.714 (air = 1). The maximum down hole temperature in the test was 113.3 deg C, recorded at the PLT at 2754.4 m. This is estimated to be the initial reservoir temperature at mid-perforations, 2826.3 m.

## Oil samples at the Norwegian Offshore Directorate

Test type	Bottle number	Top depth MD [m]	Bottom depth MD [m]	Fluid type	Test time	Samples available
DST	DST2	2801.50	2819.50			YES



DST		2772.60	2878.00		24.03.1990 - 00:00	YES
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### Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
363	<a href="#">NORDLAND GP</a>
363	<a href="#">NAUST FM</a>
1080	<a href="#">KAI FM</a>
1725	<a href="#">ROGALAND GP</a>
1725	<a href="#">TARE FM</a>
1788	<a href="#">TANG FM</a>
1961	<a href="#">SHETLAND GP</a>
2469	<a href="#">CROMER KNOT GP</a>
2639	<a href="#">VIKING GP</a>
2639	<a href="#">SPEKK FM</a>
2654	<a href="#">MELKE FM</a>
2670	<a href="#">FANGST GP</a>
2670	<a href="#">GARN FM</a>
2683	<a href="#">NOT FM</a>
2699	<a href="#">ILE FM</a>
2714	<a href="#">BÅT GP</a>
2714	<a href="#">ROR FM</a>
2773	<a href="#">TILJE FM</a>
2880	<a href="#">ÅRE FM</a>
2936	<a href="#">GREY BEDS (INFORMAL)</a>
2982	<a href="#">RED BEDS (INFORMAL)</a>