

**General information**

Wellbore name	6507/7-5 A
Type	EXPLORATION
Purpose	APPRAISAL
Status	P&A
Factmaps in new window	<a href="#">link to map</a>
Main area	NORWEGIAN SEA
Field	<a href="#">HEIDRUN</a>
Discovery	<a href="#">6507/7-2 Heidrun</a>
Well name	6507/7-5
Seismic location	CN 8502 - 599 SP. 225
Production licence	<a href="#">095</a>
Drilling operator	Conoco Norway Inc.
Drill permit	505-L
Drilling facility	<a href="#">NORTRYM</a>
Drilling days	31
Entered date	06.03.1986
Completed date	05.04.1986
Release date	05.04.1988
Publication date	17.09.2007
Purpose - planned	APPRAISAL
Reentry	NO
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]	25.0
Water depth [m]	331.0
Total depth (MD) [m RKB]	2673.0
Final vertical depth (TVD) [m RKB]	2525.0
Maximum inclination [°]	30.9
Bottom hole temperature [°C]	63
Oldest penetrated age	EARLY JURASSIC
Oldest penetrated formation	TILJE FM
Geodetic datum	ED50
NS degrees	65° 21' 30.27" N
EW degrees	7° 17' 35.08" E



NS UTM [m]	7249656.78
EW UTM [m]	420590.94
UTM zone	32
NPDID wellbore	860

## Wellbore history

### General

Well 6507/7-5 A is located on the northern part of the Halten Terrace off shore Mid Norway and was drilled to appraise the northern extension of the 6507/7-2 Heidrun Discovery. Well 6507/7-5 A was drilled as a geological sidetrack from the 6507/7-5 well to further evaluate and appraise the Middle and Lower Jurassic sands in a downthrown fault block adjacent to, and NNW of the one tested by the 6507/7-5 well. Prognosed TD was at 2721 m MD RKB.

### Operations and results

Appraisal well 6507/7-5 A was spudded the semi-submersible installation Nortrym on 6 March 1986. The well was drilled deviated from 6507/7-5 with kick-off point at 1100 m in the 6507/7-5 well and reached its TD at 2673 m in the Early Jurassic Tilje Formation. TD location was approximately 640 m NNW from the top hole location. No shallow gas was recorded during drilling. Due to technical problems, prognosed depth was not reached. The drill string became differentially stuck during a connection 9 m off bottom. After 7 days of fishing, the string was backed off, leaving a 387 m fish in the hole. Hence there were no final logs run on this well. Two days were spent waiting for weather. The well was drilled with KCl/polymer mud from kick-off to TD.

The well proved an even longer hiatus in this well than in well 6507/7-5: from the Late Cretaceous Turonian to the Middle Jurassic Aalenian/Bajocian. Hence, no Late Jurassic sediments were encountered. The Fangst Group, Garn Formation, came in at 2554.5 m (2420.6 m TVD RKB) and the Båt Group at 2582.5 m (2445.2 m TVD), with top Tilje Formation at 2598.0 m (2458.8 m TVD). Analysis of cores indicated good to excellent porosity and permeability with shows.

Poor to moderate shows occurred in siltstone and sandstone samples from the Cretaceous between 2300 and down to top Jurassic. In the Fangst Group oil shows appeared first at 2560 m, ca 3 m down from the top of core no 1 and 5 m below top Garn Formation. A transitional zone of increasingly strong oil shows followed down to 2563 m from where good shows persisted down to 2629 m ca 13 m TVD into the Tilje Formation. An oil-down-to contact was thus indicated at this level, supported by logs. However, since no RFT was run and occasional oil shows were observed in sandstone and siltstone fragments down to TD the hydrocarbon contact remained unclear.

Coring commenced at 2557 m, and 6 cores were cut in the interval 2557 - 2629.6 m. No fluid samples were taken on wire line.

The well was permanently abandoned on 5 April 1986 as a dry well. The well was plugged and abandoned as an oil and gas appraisal, with possible communication between the Fangst and Båt Groups.

### Testing

No drill stem test was performed.



### Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1100.00	2668.00

Cuttings available for sampling?	YES
----------------------------------	-----

### Cores at the Norwegian Offshore Directorate

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	2557.0	2568.8	[m ]
2	2572.0	2572.9	[m ]
3	2573.0	2592.3	[m ]
4	2595.0	2610.1	[m ]
5	2611.7	2622.5	[m ]
6	2622.5	2629.6	[m ]

Total core sample length [m]	65.0
Cores available for sampling?	YES

### Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
356	<a href="#">NORDLAND GP</a>
1491	<a href="#">KAI FM</a>
1966	<a href="#">HORDALAND GP</a>
1966	<a href="#">BRYGGE FM</a>
2083	<a href="#">ROGALAND GP</a>
2083	<a href="#">TARE FM</a>
2117	<a href="#">TANG FM</a>
2188	<a href="#">SHETLAND GP</a>
2555	<a href="#">FANGST GP</a>
2583	<a href="#">BÅT GP</a>
2598	<a href="#">TILJE FM</a>

**Documents - older Norwegian Offshore Directorate WDSS reports and other related documents**





Document name	Document format	Document size [MB]
<a href="#">860_01_WDSS_General_Information</a>	pdf	0.23
<a href="#">860_02_WDSS_completion_log</a>	pdf	0.18

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

Document name	Document format	Document size [MB]
<a href="#">860_01_Completion_Report</a>	pdf	8.03
<a href="#">860_02_Completion_log</a>	pdf	1.42

**Logs**

Log type	Log top depth [m]	Log bottom depth [m]
HRT CCL	355	2160
ISF BHC GR SP	2186	2569
ISF SLS MSFL GR	1032	2432
ISF SLS MSFL GR	1032	2196
MWD - GR RES DIR	1434	2673

**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.	20	1033.0	26	1098.0	1.58	LOT
INTERM.	13 3/8	2189.0	17 1/2	2201.0	1.69	LOT

**Drilling mud**

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
1098	1.38	33.5	622.4	WATER BASED	07.03.1986
1110	1.38	33.5	622.4	WATER BASED	09.03.1986
1498	1.39	73.5	622.4	WATER BASED	11.03.1986
1916	1.42	73.5	622.4	WATER BASED	12.03.1986
2051	1.39	73.5	622.4	WATER BASED	17.03.1986
2198	1.40	73.5	622.4	WATER BASED	17.03.1986
2201	1.27	73.5	622.4	WATER BASED	15.03.1986





2478	1.27	73.5	622.4	WATER BASED	19.03.1986
2572	1.30	26.0	21.0	WATER BASED	21.03.1986
2634	1.30	22.0	18.0	WATER BASED	24.03.1986
2673	1.33	18.0	22.0	WATER BASED	24.03.1986
2673	1.03	18.0	23.0	WATER BASED	08.04.1986