

**General information**

Wellbore name	34/10-7 R
Type	EXPLORATION
Purpose	APPRAISAL
Status	P&A
Factmaps in new window	<a href="#">link to map</a>
Main area	NORTH SEA
Field	<a href="#">GULLFAKS</a>
Discovery	<a href="#">34/10-1 Gullfaks</a>
Well name	34/10-7
Seismic location	S 30 - 180 SP. 328
Production licence	<a href="#">050</a>
Drilling operator	Den norske stats oljeselskap a.s
Drill permit	237-L2
Drilling facility	<a href="#">ROSS ISLE</a>
Drilling days	45
Entered date	31.05.1983
Completed date	14.07.1983
Plugged and abandon date	14.07.1983
Release date	14.07.1985
Publication date	14.11.2012
Purpose - planned	APPRAISAL
Reentry	YES
Reentry activity	TESTING/PLUGGING
Content	OIL
Discovery wellbore	NO
1st level with HC, age	EARLY JURASSIC
1st level with HC, formation	COOK FM
2nd level with HC, age	EARLY JURASSIC
2nd level with HC, formation	STATFJORD GP
Kelly bushing elevation [m]	22.0
Water depth [m]	204.0
Total depth (MD) [m RKB]	2247.0
Final vertical depth (TVD) [m RKB]	2247.0
Maximum inclination [°]	1.5
Bottom hole temperature [°C]	90
Oldest penetrated age	LATE TRIASSIC
Oldest penetrated formation	LUNDE FM
Geodetic datum	ED50

NS degrees	61° 12' 13.44" N
EW degrees	2° 16' 28.56" E
NS UTM [m]	6785858.02
EW UTM [m]	461016.27
UTM zone	31
NPDID wellbore	496

## Wellbore history

### General

Well 34/10-7 R is a re-entry of well 34/10-7 on the eastern segment of the Gullfaks Field. Well 34/10-7 found oil in the Cook and Staffjord formations and performed a drill stem test from the Cook Formation. The objective of the re-entry was to perform two more drill stem tests in the main reservoir, the Cook Formation.

### Operations and results

Well 34/10-7 was re-entered with the semi-submersible installation Ross Isle on 31 May 1983.

No wire line fluid samples were taken. Cores were cut in the primary well bore.

After testing the well was permanently abandoned on 14 July 1983 as an oil and gas appraisal well.

### Testing

The Cook Formation was perforated and tested at two levels.

DST 2 tested the interval 1833.4 to 1863.4 m. Towards the end of the main flow it produced 812 Sm<sup>3</sup> oil and 99 000 Sm<sup>3</sup> gas /day through a 40/64" choke. The GOR was 123 Sm<sup>3</sup>/Sm<sup>3</sup>, the oil density was 0.826 g/cm<sup>3</sup> and the gas gravity was 0.68 (air = 1). The maximum temperature recorded at perforation depth was 76.2 deg C. After production testing DST 2 included also a seawater injection test and a seawater with surfactant injection test. Injection rates of up to 1600 m<sup>3</sup>/day of seawater were recorded during the final stages of the injection sequence. Due to fracturing of the reservoir during the first phase of injection no conclusions regarding the effects of the surfactant in the second phase could be made.

DST 3 tested the interval 1807 to 1821 m. Towards the end of the main flow it produced 829 Sm<sup>3</sup> oil and 110500 Sm<sup>3</sup> gas /day through a 32/64" choke. The GOR was 133 Sm<sup>3</sup>/Sm<sup>3</sup>, the oil density was 0.829 g/cm<sup>3</sup> and the gas gravity was 0.68 (air = 1). The maximum temperature recorded at perforation depth was 73.3 deg C.

## Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
226	<a href="#">NORDLAND GP</a>
892	<a href="#">UTSIRA FM</a>
931	<a href="#">NO FORMAL NAME</a>
962	<a href="#">HORDALAND GP</a>
1012	<a href="#">NO FORMAL NAME</a>
1060	<a href="#">NO FORMAL NAME</a>
1097	<a href="#">NO FORMAL NAME</a>
1127	<a href="#">NO FORMAL NAME</a>
1177	<a href="#">NO FORMAL NAME</a>
1305	<a href="#">NO FORMAL NAME</a>
1512	<a href="#">ROGALAND GP</a>
1512	<a href="#">BALDER FM</a>
1565	<a href="#">LISTA FM</a>
1663	<a href="#">SHETLAND GP</a>
1663	<a href="#">JORSALFARE FM</a>
1747	<a href="#">KYRRE FM</a>
1807	<a href="#">DUNLIN GP</a>
1807	<a href="#">COOK FM</a>
1934	<a href="#">BURTON FM</a>
1942	<a href="#">AMUNDSEN FM</a>
2050	<a href="#">STATFJORD GP</a>
2050	<a href="#">NANSEN FM</a>
2137	<a href="#">RAUDE FM</a>
2177	<a href="#">HEGRE GP</a>
2177	<a href="#">LUNDE FM</a>

### Drill stem tests (DST)

Test number	From depth MD [m]	To depth MD [m]	Choke size [mm]
1.0	1858	1865	15.9
2.0	1835	1865	15.9
3.0	1810	1824	12.7

Test number	Final shut-in pressure [MPa]	Final flow pressure [MPa]	Bottom hole pressure [MPa]	Downhole temperature [°C]
1.0				
2.0				

3.0				
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Test number	Oil [Sm <sup>3</sup> /day]	Gas [Sm <sup>3</sup> /day]	Oil density [g/cm <sup>3</sup> ]	Gas grav. rel.air	GOR [m <sup>3</sup> /m <sup>3</sup> ]
1.0	473	59000	0.832	0.642	124
2.0	810	99000	0.826	0.680	122
3.0	830	110000	0.830	0.680	133

### Casing and leak-off tests

Casing type	Casing diam. [inch]	Casing depth [m]	Hole diam. [inch]	Hole depth [m]	LOT/FIT mud eqv. [g/cm <sup>3</sup> ]	Formation test type
CONDUCTOR	30	291.0	36	292.0	0.00	LOT
SURF.COND.	20	823.0	26	845.0	1.51	LOT
LINER	16	1346.0	19 1/2	1415.0	1.77	LOT
INTERM.	13 3/8	1565.0	18	1572.0	1.90	LOT
INTERM.	9 5/8	1692.0	12 1/4	1700.0	2.02	LOT
LINER	7	1977.0	8 1/2	1990.0	2.05	LOT
OPEN HOLE		2247.0	6	2247.0	0.00	LOT

### 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]
<a href="#">496 Formation pressure (Formasjonstrykk)</a>	PDF	0.11

