

**General information**

Wellbore name	34/10-32 R
Type	EXPLORATION
Purpose	APPRAISAL
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Field	GULLFAKS SØR
Discovery	34/10-2 Gullfaks Sør
Well name	34/10-32
Seismic location	ST 8134 - 227 CP. 365
Production licence	050
Drilling operator	Den norske stats oljeselskap a.s
Drill permit	540-L3
Drilling facility	DEEPSEA BERGEN
Drilling days	27
Entered date	15.07.1987
Completed date	10.08.1987
Plugged and abandon date	10.08.1987
Release date	10.08.1989
Publication date	02.12.2014
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	BRENT GP
2nd level with HC, age	EARLY JURASSIC
2nd level with HC, formation	STATFJORD GP
Kelly bushing elevation [m]	23.0
Water depth [m]	133.0
Total depth (MD) [m RKB]	3742.0
Final vertical depth (TVD) [m RKB]	3742.0
Maximum inclination [°]	8.4
Bottom hole temperature [°C]	140
Oldest penetrated age	LATE TRIASSIC
Oldest penetrated formation	LUNDE FM
Geodetic datum	ED50



NS degrees	61° 4' 33.37" N
EW degrees	2° 12' 43.59" E
NS UTM [m]	6771662.05
EW UTM [m]	457486.56
UTM zone	31
NPDID wellbore	1128

Wellbore history

General

Well 34/10-32 R is a re-entry of well 34/10-32 on the Gullfaks South structure. The objective of the re-entry was testing and permanent abandonment.

Operations and results

Well 34/10-32 was re-entered with the semi-submersible installation Deepsea Bergen on 15 July 1987.

After drill stem testing the well was permanently abandoned on 10 August as an oil and gas appraisal well.

Testing

Two DST tests were performed in the Statfjord Group.

DST 1A tested the interval 3457 - 3471 m in the Eirikson Formation. It produced 800 Sm3 gas and 280 m3 water /day through a 7.1 mm choke. The gas gravity was 0.661 (air = 1). The bottom hole temperature was 128 °C.

DST 2 in the interval 3368 - 3374 m in the Nansen Formation. This test produced 1085 Sm3 oil, 157400 Sm3 gas, and 130 m3 water /day through a 17.5 mm choke. The GOR was 145 Sm3/Sm3, the oil density was 0.860 g/cm3, and the gas gravity was 0.639 (air = 1). The bottom hole temperature was 129 °C. Maximum oil production in DST2, before water break-through, was 2670 Sm3 oil/day through a 25.4 mm choke.

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	TEST2	3368.00	3374.00	OIL	02.08.1987 - 15:00	YES

Lithostratigraphy



Top depth [mMD RKB]	Lithostrat. unit
167	NORDLAND GP
870	UTSIRA FM
961	HORDALAND GP
1827	ROGALAND GP
1827	BALDER FM
1898	LISTA FM
2062	SHETLAND GP
3037	CROMER KNOLL GP
3092	VIKING GP
3092	DRAUPNE FM
3102	HEATHER FM
3170	BRENT GP
3170	NESS FM
3178	DUNLIN GP
3178	DRAKE FM
3236	COOK FM
3286	AMUNDSEN FM
3353	STATFJORD GP
3353	NANSEN FM
3386	EIRIKSSON FM
3488	RAUDE FM
3538	HEGRE GP
3538	LUNDE FM

Geochemical information

Document name	Document format	Document size [MB]
1128 GCH 1	pdf	0.31
1128 GCH 2	pdf	0.37

Drill stem tests (DST)

Test number	From depth MD [m]	To depth MD [m]	Choke size [mm]
1.0	3457	3471	15.9
2.0	3368	3374	2.5





Test number	Final shut-in pressure [MPa]	Final flow pressure [MPa]	Bottom hole pressure [MPa]	Downhole temperature [°C]
1.0	32.000	24.000	33.000	
2.0	25.000	13.000		

Test number	Oil [Sm3/day]	Gas [Sm3/day]	Oil density [g/cm3]	Gas grav. rel.air	GOR [m3/m3]
1.0		1000		0.661	
2.0	2680		0.855	0.646	

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CBL VDL CCL	2786	3685
CEMENT RETAINER	3490	3458
CET GR	2789	3698
CORRELATION DST-1.	3072	3260
CORRELATION DST-2	3072	3136
PERFORATION DST-2.	3370	3410
RFT HP CASED HOLE	3643	3656
RFT STRAIN GAUGE	3643	3656
VSP F.OFFSET.	1700	3675

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
LINER	7	3739.0	8 1/2	3753.0	1.95	LOT