

Denne rapport
tilhører



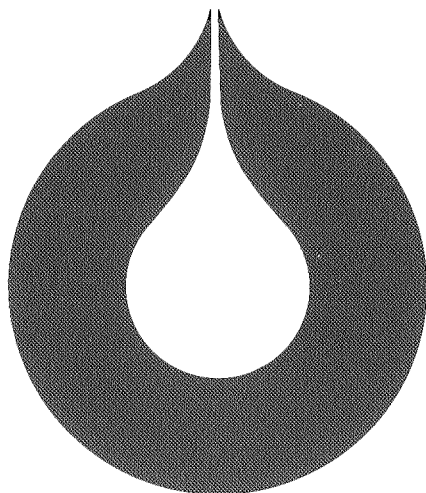
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L&U DOK. SENTER

L. NR. 12483220039

KODE well 34/10-8 nr.2c

Returneres etter bruk



statoil

RESERVOIR FLUID STUDY

WELL 34/10-8

STATOIL PRODUCTION

LABORATORY

050-P5.17.04-PVT

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RESERVOIR FLUID 34/10-8

This report presents results from a short PVT program on 2 bottom hole samples from 34/10-8.

These samples were collected during DST no. 1 perforated interval 1870-1873m in the Brent formation. The bottles were marked 13266/139 and 14068/45.

A bubble point for each sample was determined at 73°C and thereafter a singleflash of the samples were done. From this the reservoir fluid composition, saturated density and shrinkage factor can be determined. See Table 1.

Sample marked 14068/45 has been sendt to Expro, Reading for full analysis.

Statoil Productionlab.

A handwritten signature in black ink, appearing to read "Per Thomassen".

Per Thomassen.

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TABLE 1. Reservoir fluid properties of samples.

BHS No.		
Bottle No.	13266/139	14068/45
Formation temp. (°C)	73	73
Initial fluid pressure (bar)	311	311

Components

Nitrogen	0.51	0.51
Carbondioxid	1.05	1.05
Methane	49.93	49.92
Ethane	4.33	4.30
Propane	0.82	0.80
iso-butane	0.47	0.49
n-butane	0.41	0.43
iso-pentane	0.49	0.48
n-pentane	0.19	0.20
Hexanes	0.80	0.78
Heptanes +	<u>41.00</u>	<u>41.04</u>
	100.00	100.00
C ₇₊ mol wt.	251	251
<u>C₇₊ density (g/cc)</u>	0.8855	0.8856
ρ_{rf} density res. fluid (g/cc):	0.750	0.743
Bubble pt., (Bar) :	276	276
Co ⁽³⁾ , (vol/vol/bar x 10 ⁵) :	13.9	14.1
Gor, (SM ³ /M ³) (1) :	118	118
Bo, (M ³ /M ³) (2) :	1.307	1.319
ρ_o density of oil, (g/cc) :	0.8830	0.8830
γ_s , gravity of gas (1) :	0.67	0.67
Mol weight stock tank oil :	247	247

STATOIL PRODUCTION LABORATORY

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<p>Issued: 19.9.80</p>	<p>RESERVOIR FLUID STUDY STATOIL WELL 34/10-8 BOTTOM HOLE SAMPLES</p>	<p>Report: PVT-21</p>
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- (1) γ_g , GOR, B_o , ρ res. fluid from singleflash of oil from reservoir condition to 1 atm., 15°C.
- (2) B_o is M^3 of reservoir fluid pr. M^3 of stock tank fluid at 1 atm., 15°C.
- (3) Average compressibility to oil between saturation pressure and initial reservoir pressure.

Error limits on reported values:

Bubblepoint : \pm 0.5 BAR

GOR : \pm 0.3 SM^3/M^3 , 1.7 SCF/BBL

BO : \pm $3 \times 10^{-3} M^3/M^3$

ρ res. fluid : \pm 2×10^{-3} g/cc

ρ oil : \pm 2×10^{-4} g/cc

γ gas : \pm 1×10^{-2}

M : \pm 10 g/g mole

Composition : $C_1, C_2 \pm$ 1% decreasing to about \pm 7%
for components having reported values
less than 1 mole%