

Denne rapport  
tilhører



99.595-274-9  
L&U DOK. SENTER

L. NR. 12480040003

KODE well 34/10-7 nr 7

Returneres etter bruk

RESERVOIR FLUID STUDY

WELL 34/10-7

STATOIL PRODUCTION

LABORATORY

050-P5.17.04

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Reservoir fluid study 34/10-7

2 bottom hole samples was taken during the drillstem test of the Dunlin formation in 34/10-7.

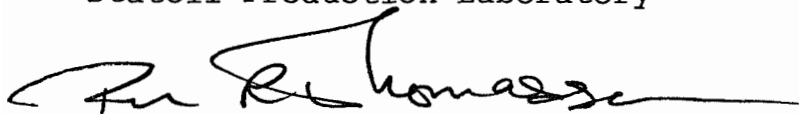
The perforated intervall was from 1858-65m, while the samples was taken at 1790m.

Before sending one of the samples to a service lab for full PVT analysis, a "short" PVT program was performed in Statoil's Production Lab.

The results shows that the samples are equal in all parameters within the error limits.

Bottle 12689/59 has been sent to Core - Lab. Aberdeen for full PVT analysis.

Statoil Production Laboratory



Per R. Thomassen.

Issued: 15.4.80	RESERVOIR FLUID STUDY STATOIL WELL 34/10-7 BOTTOM HOLE SAMPLES	Report: PVT-13
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TABLE 1. Reservoir fluid properties of samples.

BHS NO. 1	Upper chamber	Lower chamber
Bottle No.	12689/59	20584/92
Formation temp. ( $^{\circ}$ C)	77.8	77.8
Initial fluid pressure (bar)	295	295

Components

Nitrogen	0.82	0.82
Carbondioxid	0.13	0.13
Methane	47.19	47.25
Ethane	6.09	6.08
Propane	4.75	4.72
iso-butane	1.07	1.05
n - butane	2.71	2.63
iso-pentane	1.22	1.17
n - pentane	1.62	1.51
Hexanes	2.48	2.31
Heptanes <sub>+</sub>	<u>31.72</u>	<u>32.33</u>
	<u>100.00</u>	<u>100.00</u>
$C_{7+}$ mol wt.	244	242
$C_{7+}$ density (g/cc)	0.8531	0.8516
Density res. fluid g/cc :	0.683	0.685
Bubble pt., Bar :	236	237
$Co^{(3)}$ , vol/vol/bar $\times 10^5$ :	16.9	16.3
$Gor$ , $SM^3/M^3$ (1) :	153.8	153.4
$Bo$ , $M^3/M^3$ (1,2) :	1.445	1.438
Density of oil, g/cc :	0.8387	0.8387
Gravity of gas (1) :	0.80	0.80
Mol weight stock tank oil:	220	220

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- (1)  $\gamma_g$ , GOR,  $B_o$  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 :  $\pm$   $3 \times 10^{-3} M^3/M^3$

$\rho$  res. fluid :  $\pm$   $2 \times 10^{-3}$  g/cc

$\rho$  oil :  $\pm$   $2 \times 10^{-4}$  g/cc

$\gamma$  gas :  $\pm$   $1 \times 10^{-2}$

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%