

W. L. Culbertson (2)
 J. W. Marx
 J. G. Erdman
 JFD/mfg

EXPLORATION AND PRODUCTION DEPARTMENT
 PRODUCTION DIVISION
 RESERVOIR ENGINEERING LABORATORY
 BARTLESVILLE, OKLAHOMA
 April 2, 1969

ID/OLJE
00351 *25.3.69
 SAKSB:
 ARKIV:

Norway Sector, North Sea, License 7,
 Block 11, Well No. 3X
COMPANION SEPARATOR SAMPLES

REL-24-GA-8-69

Mr. O. D. Thomas
 Bartlesville Office

In re: Data Sheet
 with samples to J. F. Downie

from Stavanger, Norway
 regarding subject sample.

Lease name and well number
 Field, county, and state
 Name of producing formation
 Perforated interval
 Source of sample
 Separator pressure, psig
 Separator temperature, °F
 Gas - liquid ratio, Mcf/bbl.
 Sample container
 Pressure in container, psig
 Date sampled
 Sampled by
 Producing rate

License 7, Block 11, Well No. 3X
 Norway Sector, North Sea
 Paleocene
 10,125' - 10,145'
 Separator
 20 (35 psia)
 45
 13.33
 2-gallon, 2-valve, stainless steel bottle
 25
 December 29, 1968
 Fetter/Ziara
 120,000 SCFPD and 90 BPD

The composition of the sample was as follows:

Component		Separator Gas, Mol Per Cent	Separator Liquid, Mol Per Cent	Composite Well Stream Mol Per Cent
Helium	same	<0.02	---	---
Carbon dioxide	more	3.89	less 0.12	2.60
Nitrogen	lit. less	0.80	less 0.03	0.54
Methane	much less	42.83	less 0.59	28.42
Ethane	much higher	23.20	less 2.12	16.01
Propane	much "	17.83	less 6.74	14.05
i-Butane	" "	3.26	same 2.98	3.16
n-Butane	" "	5.31	more 7.25	5.97
i-Pentane	" "	1.17	more 4.34	2.25
n-Pentane	" "	0.90	more 5.09	2.33
Hexane	" "	0.53	much " 12.78	4.71
Heptane and heavier	same	0.28	" " 57.96	19.96
		<u>100.00</u>	<u>100.00</u>	<u>100.00</u>

Specific gravity (air = 1.00) 1.0667
 Heating value, Btu/cf - dry 1704.
 (14.6% psia and 60°F) - wet 1674.

Molecular weight heptanes plus = (219)
 Specific Gravity heptanes plus @ 60°F = 0.828

J. F. Downie

J. F. Downie
 E & P Dept. 262 CL PRG
 Ext. 48-431