



P. O. BOX 1499

OF NEW MEXICO

PHONE 393-7751

HOBBS, NEW MEXICO 88240

No. 1761

Run No.

Date of Run 5-5-71

Date Secured 5-4-71

CERTIFICATE OF ANALYSIS

A Sample of Shenandoah Oil Corporation
Secured from Coleman Engineering Company
At Hobbs, New Mexico 88240 Secured by _____
Time _____ Date _____

Sampling conditions _____ Press. _____
Temp. _____
Reed and Stevens M Federal #1 Haystack Cisco Chaves County, New Mexico

FRACTIONAL ANALYSIS

Percentage Composition

	MOL%	LIQ.%	G.P.M.
Carbon Dioxide	.10		
Air			
Nitrogen	3.79		
Oxygen			
Hydrogen sulfide			
Hydrogen			
Methane	89.76		
Ethane	3.81		
Propane	1.49		.410
Butanes			
Iso-Butane	.21		.069
N-Butane	.36		.113
Pentanes			
Iso-Pentane	.08		.029
N-Pentane	.08		.029
Hexanes	.32		.136
Heptanes			
TOTAL	100.00		.786

Calc. Sp. Gr. — 0.6231
Calc. A.P.I. —
Calc. Vapor Press. — PSIA
Sp. Gr. —
Mol. Wt. —

LIQUID CONTENT (GAL./MCF)

Propane Calc. G.P.M. .410
Butanes Calc. G.P.M. .182
Pentanes Plus. G.P.M. .194
Ethane Calc. G.P.M.
RVP Gasoline G.P.M.

B.T.U./Cu. Ft. @14.696 P.S.I.A.

Dry Basis 1053
Wet Basis 1035

Sulfur Analysis by Titration

Gr./100 Cu. Ft.

Hydrogen Sulfide
Mercaptans
Sulfides
Residual Sulfur
Total Sulfur

Run by Deane Simpson Checked by Felix B. Foster Approved by Deane Simpson

Additional Data and Remarks