

**NEW-TEX
LAB**P. O. BOX 1161
HOBBS, N.M. 88240No. 5221
Run No. _____
Date of Run 7-1-81
Date Secured 6-26-81**CERTIFICATE OF ANALYSIS**

A Sample of Alpine Petroleum Corporation Froehlich Federal #1 H-24-18-21
Secured from Bennet Wireline
At Box 787 Secured by _____
Artesia, NM 88210 Time _____ Date _____
Sampling conditions _____ Press _____
Temp. _____

FRACTIONAL ANALYSIS**Percentage Composition**

MOL % LIQ. % G.P.M.

Carbon Dioxide	12.271	
Air		
Nitrogen	1.550	
Oxygen		
Hydrogen sulfide		
Hydrogen		
Methane	75.264	
Ethane	6.694	1.785
Propane	2.539	.697
Butanes		
Iso-Butane	.313	.102
N-Butane	.651	.205
Pentanes		
Iso-Pentane	.195	.071
N-Pentane	.187	.068
Hexanes	.139	.057
Heptanes	.197	.091
Octanes		
TOTAL	100.000	3.076

Calc. Sp. Gr. 0.7659
Calc. A.P.I. _____
Calc. Vapor Press. _____ PSIA
Sp. Gr. _____
Mol. Wt. 22.18

LIQUID CONTENT (GAL./MCF)

Propane Calc. G.P.M. .697
Butanes Calc. G.P.M. .307
Pentanes Plus. G.P.M. .287
Ethane Calc. G.P.M. 1.785
RVP Gasoline G.P.M. _____

B.T.U./Cu. Ft. @ 14.696 P.S.I.A.
Dry Basis 1007
Wet Basis 989

Sulfur Analysis by Titration
Gr./100 Cu. Ft. _____
Hydrogen Sulfide _____
Mercaptans _____
Sulfides _____
Residual Sulfur _____
Total Sulfur _____

Run by Deane Simpson Checked by _____ Approved by Deane Simpson

Additional Data and Remarks

RECEIVED

JUL 30 1981

**U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO**