WOLF PETRO LAB, INC.
DIAL EMERSON 6-9701
DIAL EMERSON 6-7171
2411 WEST 42ND STREET
P. O. BOX 643
ODESSA, TEXAS
79760

HYDROCARBON ANALYSIS

LABORATORY REPORT

Charge Reading & Bates Inc.
Test No. WPL-70-1390
Date of Run 12-30-70
Date Received 12-30-70

A Sample of Gas from R. & J. Federal No. 1

Secured from Queen Sand Formation

At Chaves Co New Mexico Secured by D. Kipgen

Purpose Time Date 12-30-70

Sampling Conditions: Pressure 880 psig

CHROMATOGRAPH ANALYSIS

	Gas Vol. or Mol. %	Liquid Vol. %	GPM
Hydrogen Sulfide			
Carbon Dioxide	.05		
Air			
Nitrogen	58.78		
Oxygen			
Methane	30.49		
Ethane	6.84		
Propane	2.65		.73
iso-Butane	.30		.10
n-Butane	.54		.17
iso-Pentane	.10		.04
n-Pentane	.09		.03
iso-Hexane			
n-Hexane			
Pentanes (2)			
Hexanes (2)	.16		.07
Heptane (2)			
TOTAL	100.00		1.14

(1) and lighter
(2) and heavier

ANALYSIS INFORMATION

Volume of Sample cc. @ ° F
Sp. Gr. Residue Vol. of Residue cc.
Molecular Wgt. of Residue
Gal/lb. Mol.

VAPOR PRESSURE

lbs. @ 100° F
Calculated lbs. @ 100° F

GASOLINE CONTENT

26/70 Gasoline .21 G. P. M.
100% Propane .73 G. P. M.
Excess Butanes .20 G. P. M.
TOTAL 1.14 G. P. M.

SULFUR DETERMINATION

Hydrogen Sulfide H_2S grs/100 SCF
Mercaptans RSH grs/100 SCF
Sulfides RSR grs/100 SCF
Residual Sulfur RSSR grs/100 SCF
Total Sulfur grs/100 SCF

OTHER DATA

BTU Content	Wet Basis	(Calc)	530
BTU Content (Actual)	Dry Basis	(Calc.)	541
Sp. Gravity (Actual)		(Calc.)	.8729
A. P. I. Gr. (Actual)		(Calc.)	

Run by: J. Wolf Checked by: J. Wolf Approved:

Additional Data and Remarks

COPIES

4 - Mr. Paul Farrow
Reading & Bates Inc.
810 East County Road
Odessa, Texas 79760
1 - File