



WOL 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-70-1386
Date of Run 12-26-70
Date Received 12-24-70

A Sample of Gas from Federal No 1 - Reading and Bates Inc.

Secured from Queens Formation

At Chaves Co. New Mexico Secured by P. Farrow

Purpose _____ Time _____ Date 12-24-70

Sampling Conditions: Pressure 880 psig
Gas Vol 596 MCF/D
Well Stabilized for 2 Hours

CHROMATOGRAPH ANALYSIS

	Gas Vol. or Mol. %	Liquid Vol. %	GPM
Hydrogen Sulfide			
Carbon Dioxide	<u>1.06</u>		
Air			
Nitrogen	<u>56.46</u>		
Oxygen			
Methane	<u>30.36</u>		
Ethane	<u>7.02</u>		
Propane	<u>3.01</u>		<u>.83</u>
Iso-Butane	<u>.37</u>		<u>.12</u>
N-Butane	<u>.74</u>		<u>.23</u>
Iso-Pentane	<u>.19</u>		<u>.07</u>
N-Pentane	<u>.22</u>		<u>.08</u>
Iso-Hexane			
N-Hexane			
Pentanes (2)			
Hexanes (2)	<u>.57</u>		<u>.24</u>
Heptane (2)			
TOTAL	<u>100.00</u>		<u>1.57</u>

(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

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

GASOLINE CONTENT

<u>26/70</u>	Gasoline	<u>.585</u>	G. P. M.
<u>100%</u>	Propane	<u>.830</u>	G. P. M.
<u>Excess</u>	Butanes	<u>.155</u>	G. P. M.
	TOTAL	<u>1.570</u>	G. P. M.

SULFUR DETERMINATION

Hydrogen Sulfide	H ₂ S	_____	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)	<u>578</u>
BTU Content (Actual)	Dry Basis	(Calc.)	<u>588</u>
Sp. Gravity (Actual)		(Calc.)	<u>.8992</u>
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

RECEIVED

JAN 11 1971

RESEARCH & EDUCATION CENTER
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