



WOLF PETRO LAB, INC.

DIAL EMERSON 6.9701
DIAL EMERSON 6.7171

2411 WEST 42ND STREET

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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	<u>.05</u>		
Air			
Nitrogen	<u>58.78</u>		
Oxygen			
Methane	<u>30.49</u>		
Ethane	<u>6.84</u>		
Propane	<u>2.65</u>		<u>.73</u>
iso-Butane	<u>.30</u>		<u>.10</u>
n-Butane	<u>.54</u>		<u>.17</u>
iso-Pentane	<u>.10</u>		<u>.04</u>
n-Pentane	<u>.09</u>		<u>.03</u>
iso-Hexane			
n-Hexane			
heptanes (2)			
hexanes (2)	<u>.16</u>		<u>.07</u>
heptane (2)			
TOTAL	<u>100.00</u>		<u>1.14</u>

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>.21</u>	G. P. M.
<u>100%</u>	Propane	<u>.73</u>	G. P. M.
<u>Excess</u>	Butanes	<u>.20</u>	G. P. M.
	TOTAL	<u>1.14</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>530</u>
BTU Content (Actual)	Dry Basis	(Calc.)	<u>541</u>
Sp. Gravity (Actual)		(Calc.)	<u>.8729</u>
A. P. I. Gr. (Actual)		(Calc.)	_____

_____ and lighter
_____ and heavier

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

1. The first part of the document discusses the importance of maintaining accurate records of all transactions.

2. It is essential to ensure that all data is entered correctly and consistently.

3. Regular audits should be conducted to verify the accuracy of the information.

4. Proper documentation is key to the success of any project.

5.

6. The following table provides a summary of the key findings.

7. The results of the study indicate a significant correlation between the variables.

8. It is important to note that the sample size was limited.

9. Further research is needed to confirm these findings.

10. The data suggests that there are several factors influencing the outcome.

11. The study was conducted over a period of six months.

12. The methodology used was a combination of qualitative and quantitative approaches.

13. The findings are consistent with previous research in this area.

14. The study has several limitations that should be acknowledged.

15. The data was collected from a single source, which may affect the results.

16. The study was approved by the relevant ethics committee.

17. The results of the study are presented in the following sections.

18. The study was funded by the National Science Foundation.

19. The authors would like to thank the participants for their contribution.

20. The study was published in the Journal of Applied Research.

21. The study is available for review at the following link.

22. The study is a preliminary report and should not be used for clinical purposes.

23. The study was conducted in accordance with the highest standards of research integrity.

24. The study was completed on 15th March 2024.

25. The study was conducted by the research team.

26. The study is available for review at the following link.

27. The study is a preliminary report and should not be used for clinical purposes.