

HALLIBURTON DIVISION LABORATORY
 HALLIBURTON COMPANY
 MIDLAND DIVISION

LABORATORY WATER ANALYSIS

No. W83-893

To: Trans. Perm. ResearchG-2-9N-23EDate: September 4, 1983Attn: Mr. Jack GawronP.O. Box 328Santa Rosa, New Mexico 88435

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Submitted by Halliburton, AndrewsDate Rec. 9-23-83Well No. Latigo Ranch A-1 Depth Formation County Field Source WellheadResistivity .054 @ 72°Specific Gravity 1.116 @ 60°pH 5.6Calcium (Ca) 19.320Magnesium (Mg) 1870Chlorides (Cl) 106.000Sulfates (SO₄) 260Bicarbonates (HCO₃) 81Soluble Iron (Fe) Heavy

*MPL

Remarks: The solids in the sample consisted of a moderate amount of Iron Oxide (Fe₂O₃) and a moderate amount of Calcium Carbonate (CaCO₃) *Milligrams per liter

Quar test shows no gel in sample.

Respectfully submitted,

Analyst: Dunnam
 cc: Halliburton, Andrews

HALLIBURTON COMPANY

By Jim M. Leary

DIVISION CHEMIST

NOTICE

This report is limited to the described sample tested. Any user of this report agrees that Halliburton shall not be liable for any loss or damage, whether it be to act or omission, resulting from such report or its use.

NEW-TEX LAB

P. O. BOX 1161
HOBBS, N.M. 88240

No. 711
Run No. _____
Date of Run 05-29-83
Date Secured 05-26-83

CERTIFICATE OF ANALYSIS

A Sample of #1 Latigo Ranch Block "A" G-2-9N-23E
Secured from Trans Pecos Resources
At P. O. Box 328 Secured by _____
Santa Rosa, NM 88435 Time _____ Date _____
Sampling Conditions _____ Press _____
Temp _____ Station No _____

FRACTIONAL ANALYSIS

Percentage Composition

	MOL %	LIQ. %	WT% G.P.W.
Carbon Dioxide	.157	.066	.072
Air			
Nitrogen	.209	.052	.062
Oxygen			
Hydrogen sulfide			
Hydrogen			
Methane	.017	.007	.003
Ethane	.211	.141	.066
Propane	1.551	1.063	.715
Butanes			
iso Butane	1.448	1.181	.881
N Butane	2.587	2.032	1.574
Pentanes			
Iso Pentane	3.297	3.008	2.490
N-Pentane	2.730	2.465	2.062
Hexanes	3.741	3.834	3.923
Heptanes	84.052	86.146	88.152
Octanes			
TOTAL	100.000	100.000	100.000

Calc. Sp. Gr. 0.6298 (Liquid)
Calc. A.P.I. 43.8
Calc. Vapor Press. _____ Ps
Sp. Gr. _____
Mol. Wt. 95.01

LIQUID CONTENT (GAL./MCF)

Propane Calc. G.P.M. _____
Butanes Calc. G.P.M. _____
Pentanes Plus. G.P.M. _____
Ethane Calc. G.P.M. _____
RVP Gasoline G.P.M. _____
B.T.U./Cu. Ft. @ 14.696 P.S.I.A.
Dry Basis _____
Wet Basis _____
Sulfur Analysis by Titration
Gr./100 Cu. Ft. _____
Hydrogen Sulfide _____
Mercaptans _____
Sulfides _____
Residual Sulfur _____
Total Sulfur 0.41 WT%

Run by Deane Simpson Checked by _____ Approved by Deane Simpson

Additional Data and Remarks