



UNITED CHEMICAL CORPORATION

OF NEW MEXICO

P. O. BOX 1499

PHONE (505) 393-7751

HOBBS, NEW MEXICO 88240

No. 4284

Run No.

Date of Run 11-13-75

Date Secured 11-12-75

CERTIFICATE OF ANALYSIS

Sample of Great Western - State 13 #1
Secured from Jarrel Services
Box 1654
Hobbs, New Mexico 88240
Sampling conditions Press
Temp

FRACTIONAL ANALYSIS

Percentage Composition

MOL % LIQ. % G.P.M.

Carbon Dioxide	.464		
Nitrogen	2.455		
Oxygen			
Hydrogen sulfide			
Propane			
Butanes			
iso-Butane	.634		.207
n-Butane	.997		.313
Pentanes			
iso-Pentane	.307		.112
n-Pentane	.208		.075
Hexanes	.108		.044
Heptanes	.079		.034
TOTAL	100.00		5.069

Calc. Sp. Gr. 0.7018
Calc. A.P.I.
Calc. Vapor Press. PSIA
Sp. Gr.
Mol. Wt. 20.33

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 1189
Wet Basis 1168
Sulfur Analysis by Titration
Gr./100 Cu. Ft.
Hydrogen Sulfide
Mercaptans
Sulfides
Residual Sulfur
Total Sulfur

Anal. by Deane Simpson Checked by Approved by

Additional Data and Remarks



PHILLIPS PETROLEUM COMPANY

Phillips Building, Room 711
Odessa, Texas 79761

November 20, 1975

Field Tests

File: W-1-So-98-75-C&GL

Great Western Drilling Company
Box 515
Lovington, New Mexico 88260

Attention: Mr. B. C. Mahanay

Dear Sir:

Attached is a copy of the chromo analysis on your State
"13" Lease, Well No. 1 in the Kemnitz Field in Lea County,
New Mexico.

Thank you for your assistance in making it possible for
us to test your lease.

Very truly yours,

Roger H. Sofge
cas

Roger H. Sofge

RHS:cas
Attachment

Analysis Results Summary

Location Odessa, TexasDate Run 11-13-75Date Secured 11-10-75

Time _____

Sampler's Ident. _____

A Sample of: Gas Well Gas - Great Western Drilling CompanySecured from Well #1 - State "13" LeaseLocation 510' FSL & 660' FSL 13-16-33 County Lea State New MexicoPurpose Survey Secured by CooperSampling Conditions: Atmos. Temp. 62 °F; Pressure on Bomb 110 lbs./sq. in.; Bbls oil/day _____

Volume/day _____; Weather conditions at time of sampling _____

Field Gas Pressure _____

PSIG; Line Pressure _____

PSIG. _____

Chromo

Analysis

14.65 PSI at 60°F

	Mol. %	Liq. %			
Carbon Dioxide	<u>.20</u>		Propane	Calc. G.P.M.	<u>.769</u>
Oxygen			Iso-Butane	Calc. G.P.M.	<u>.117</u>
Nitrogen	<u>2.10</u>		Nor-Butane	Calc. G.P.M.	<u>.227</u>
Hydrogen Sulfide			Pentane+	Calc. G.P.M.	<u>.231</u>
			Propane +	Calc. G.P.M.	<u>1.377</u>
			Test Car (Date		
Methane	<u>85.30</u>		B.T.U./_____ cu. ft. W.B.		<u>1118</u>
Ethane	<u>7.82</u>		Calc. Specific Gravity		<u>.661</u>
Propane	<u>2.80</u>		Calc. A.P.I. @ 60°F		
Iso-Butane	<u>.45</u>		Observed A.P.I. Av.		
Nor-Butane	<u>.72</u>		H ₂ S + CO ₂ by orsat		<u>0.201</u>
			H ₂ S grains/100 cu. ft.		<u>Sweet to L.A.</u>
Iso-Pentane	<u>.23</u>		Mercaptans gr/100 cu. ft.		
Nor-Pentane	<u>.16</u>				
			Calc. Vap. Press. #/sq. in.		
Hexanes	<u>.13</u>		Reid Vap. Press. #/sq. in.		
Heptanes Plus	<u>.09</u>		Cu. Ft. gas/Gal. Liq.		
Total	<u>100.00</u>	<u>100.00</u>	Calc. Gasoline Factors		

Run by RM - JB Calculated by _____

Checked by _____ Approved by _____

26-70 Gasoline

Excess Butane

Excess Propane

Excess Ethane & Lighter

0.

0.

0.

0.

1.0000

Additional Data and Remarks: Kemnitz - AtokaGas Temp. 94°FTP 1090%H - Trap 110%, 114°Choke 21/64"

Distribution: