



PHILLIPS PETROLEUM COMPANY

4001 Penbrook
Odessa, Texas 79762

July 10, 1978

Field Tests

W. A. Moncrief, Jr.
400 Metro Building
Midland, Texas 79701

Attention: Mr. Dewey Thornton

Dear Sir:

Listed below are results of the Gas-Oil-Ratio tests that we ran on your lease in Lea County, New Mexico.

<u>Lease</u>	<u>Wells</u>	<u>24-Hr. Oil Prod.</u>	<u>Daily Gas Vol. MCF</u>	<u>GPM</u>	<u>GOR</u>
Phillips State					
High Pressure	#1-Y	111.36	1181	0.21	10605
				(c)	
Second Stage	#1-Y	167.04	105	0.78	628
				(c)	

Attached are copies of the chromo analysis.

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

Very truly yours,

Roger H. Sofge
Roger H. Sofge

RHS:cak
Attachment

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CH. CON. ... AM.
HOOBS, R. W.

Analysis Results Summary

Run No. **G-320**Date Run **7-7-78**Date Secured **7-5-78**

Time _____

Sampler's Ident. _____

Location **Odessa, Texas**A Sample of: **Gas Well Gas - W. A. Moncrief, Jr.**Secured from **Well #1-Y - Phillips State Lease**Location **1675'S & 625'E 8-16-34** County **Lea** State **New Mexico**Purpose **Survey** Secured by **R. T. Whitley**Sampling Conditions: Atmos. Temp. **90** °F; Pressure on Bomb **450** lbs./sq. in.; Bbls oil/day **111.36**Volume/day **1181 mcf/d**; 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	.41		Propane	Calc. G.P.M.	1.000
Oxygen			Iso-Butane	Calc. G.P.M.	.171
Nitrogen	1.19		Nor-Butane	Calc. G.P.M.	.259
Hydrogen Sulfide			Pentane +	Calc. G.P.M.	.146
			Propane +	Calc. G.P.M.	1.576
Methane	84.76		Test Car (Date		
Ethane	8.25		B.T.U./_____ cu. ft. W.B.		1133
Propane	3.64		Calc. Specific Gravity		.665
iso-Butane	.52		Calc. A.P.I. @ 60°F		
Nor-Butane	.83		Observed A.P.I. Av.		
Iso-Pentane	.20		H ₂ S + CO ₂ by orsat		
Nor-Pentane	.16		H ₂ S grains/100 cu. ft.		sweet to L.A.
Hexanes plus	104		Mercaptans gr/100 cu. ft.		
Heptanes Plus			Calc. Vap. Press. #/sq. in.		
Total	100.00	100.00	Reid Vap. Press. #/sq. in.		
			Cu. Ft. gas/Gal. Liq.		
			Calc. Gasoline Factors		

Run by **JB** Calculated by _____

Checked by _____ Approved by _____

26-70 Gasoline	0.
Excess Butane	0.
Excess Propane	0.
Excess Ethane & Lighter	0.
	1.0000

Additional Data and Remarks: **Undesignated - Morrow**

Distribution:

Gas Temp 85°**FTP 3168#****LH 450# @ 85°****Choke 10/64"**

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CH. CONSERVATION COMM.
HOBBS, N. M.

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PHILLIPS PETROLEUM COMPANY

Analysis Results Summary

Location Odessa, Texas

SS No. _____

Run No. G-319Date Run 7-7-78Date Secured 7-5-78

Time _____

Sampler's Ident. _____

A Sample of: Second Stage Gas - W. A. Moncrief, Jr.Secured from Well #1-Y - Phillips State LeaseLocation 1675'S & 625'E 8-16-34County LeaState New MexicoPurpose SurveySecured by R. T. Whitley

Sampling Conditions: Atmos. Temp.

80

°F; Pressure on Bomb

36

lbs./sq. in.; Bbls oil/day

167.04

Volume/day

105 mcf

; Weather conditions at time of sampling

Field Gas Pressure

PSIG; Line Pressure

PSIG.

Chromo

Analysis

14.65 PSI at 60°F

	Mol. %	Liq. %	Propane	Calc. G.P.M.	<u>4.500</u>
Carbon Dioxide	<u>.29</u>		Iso-Butane	Calc. G.P.M.	<u>.790</u>
Oxygen			Nor-Butane	Calc. G.P.M.	<u>1.143</u>
Nitrogen	<u>.22</u>		Pentane+	Calc. G.P.M.	<u>.533</u>
Hydrogen Sulfide			Propane +	Calc. G.P.M.	<u>6.966</u>
			Test Car (Date		
			B.T.U./_____cu. ft. W.B.		<u>1586</u>
Methane	<u>52.61</u>		Calc. Specific Gravity		<u>.948</u>
Ethane	<u>22.94</u>		Calc. A.P.I. @ 60°F		
Propane	<u>16.44</u>		Observed A.P.I. Av.		
Iso-Butane	<u>2.43</u>		H ₂ S + CO ₂ by orsat		
Nor-Butane	<u>3.65</u>		H ₂ S grains/100 cu. ft.		<u>sweet to L.A.</u>
			Mercaptans gr/100 cu. ft.		
Iso-Pentane	<u>.70</u>		Calc. Vap. Press. #/sq. in.		
Nor-Pentane	<u>.46</u>		Reid Vap. Press. #/sq. in.		
Hexanes <u>plus</u>	<u>.26</u>		Cu. Ft. gas/Gal. Liq.		
Heptanes Plus			Calc. Gasoline Factors		
Total	<u>100.00</u>	<u>100.00</u>	26-70 Gasoline		<u>0.</u>
			Excess Butane		<u>0.</u>
			Excess Propane		<u>0.</u>
			Excess Ethane & Lighter		<u>0.</u>
					<u>1.0000</u>

Run by JB Calculated by _____

Checked by _____ Approved by _____

Additional Data and Remarks: Undesignated - MorrowGas Temp 65°FTP 2725#Choke 13/64"

Distribution:

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ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED

FIELD DATA SHEET

Type Test: ☒ Initial ☐ Annual ☐ Special	Test Date: 7-5-78	Lease No. or Serial No.
Company: W.A. MCGRIF, JR.	Connection: TO AIR	Allottee
Field: UNDESIGNATED	Reservoir: MORROW	Location: 1675'S & 625'E
Completion Date	Total Depth	Plug Back TD
Elevation	Farm or Lease Name: PHILLIPS STATE	
Csg. Size	Wt.	d
Set At	Perforations: From	To
Tbg. Size	Wt.	d
Set At	Perforations: From	To
Type Completion (Describe): SINGLE	Packer Set At	County or Parish: LEA
Producing Thru: TUBING	Reservoir Temp. F	Mean Ground Temp. F
Baro. Press. - P _a	State: NEW MEXICO	
L	H	G _g
% CO ₂ : 0.40%	% N ₂	% H ₂ S: SLA
Prover	Meter Run	Taps
4 X	1,500	FLANGE

DATE	ELAP. TIME	WELLHEAD WORKING PRESSURE			METER OR PROVER				REMARKS
Time of Reading	Hrs.	Tbg. Psig	Csg. Psig	Choke Temp. F	Pressure Psig	Diff.	Temp. F	Ori-fice	(Include liquid production data: Type - API Gravity - Amount)
5:00 AM		3200*	PACKER					1500	SITP 3200* OPENED WELL
5:15	1/4	2850		10/64"	450*	21"	60°		oil ADD
5:30		2725			450	21	70		
5:45		2825			450	21	80		
6:00		2855			450	21	90		1.324 mcf/d
6:15		2950			450	4	85		FLUID HIT HERE
6:30		3025			430	2	85		
6:45		3160			440	2	85		
7:00		3160			440	7	80		7.81 mcf/d
7:15		3150			440	7	85		
7:30		3145			440	9	85		
7:45		3130			440	16	85		1.181 mcf/d
8:00		3160			440	-	85		METER fouled up (sampled)
8:15		3155			450	-	85		
8:30		3150			450	-	85		
8:45		3145			450	-	85		
9:00		3140			450	2.6	85		METER BACK IN SERVICE
9:15		3140			450	2.6	92		4.64
9:30		3140			450	20	94		1.388 mcf/d
9:45		3140			450	18	105		
10:00		3135		13/64"	450	16	98		1.881 mcf/d (sampled second stop)
10:15		2725			450	36	82		
10:30		2660			450	35	85		
10:45		2655			450	33	105		
11:00		2655			450	33	105		1698 mcf/d
11:15		2660		16/64"	450	64	105		6.96
11:30		2425			490	62	105		
11:45		2325			490	58	105		
12:00 AM		2290			490	54	108		2273 mcf/d
12:15 AM		2255			490	57	108		
12:30		2255			490	57	108		
12:45		2270			490	56	110		
1:00		2290			490	57	110		2,332 mcf/d
									12.70
									51.04

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