

Gulf Oil Company				El Paso Natural Gas Co.			
Cinta Roja Morrow				Morrow			
Sample Date 12-1-79		Total Depth 14,000		Perforation 14,185		3375' GL	
Cinta Roja 10							
Est. Size 4 1/2"	Wt. 11.6#	d 4.00"	Set At 14,598	Perforations: From 14,045 To 14,164		Well No. 1	
Tag. Size 2 3/8"	Wt. 4.7#	d 1.995"	Set At 13,000	Perforations: From Open Ended To		Unit Sec. Twp. Rge. F 10 24S 35E	
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Single				Packer Set At 13,000'		County Lea	
Producing Thru Tubing		Reservoir Temp. °F 183 @ 14,150'		Mean Annual Temp. °F 60		State New Mexico	
L 14,045	H 14,045	Gg .6036	% CO ₂ 1.3438	% N ₂ .56670	% H ₂ S -	Packer -	Meter Run 4"
FLOW DATA				TUBING DATA		CASING DATA	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Duration of Flow
SI							
1.	4" x 1"			353	6	81	24 hr. 8'
2.	4" x 1"			359	11	86	1 hr.
3.	4" x 1"			359	26	84	1 hr.
4.	4" x 1"			359	37	81	1 1/2 hr.
5.							
RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor FL	Gravity Factor Fg	Super Compress. Factor Fpv	Rate of Flow Q, Mcf/D
1	4.753	46.874	353	.9804	1.288	1.028	289
2	4.753	63.986	359	.9759	1.288	1.028	399
3	4.753	98.372	359	.9777	1.288	1.028	605
4	4.753	117.352	359	.9804	1.288	1.028	724
5							
NO.	P _i	Temp. °R	T _i	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/Lbl.		
1	.535	541	1.511	.947	A.P.L. Gravity of Liquid Hydrocarbons _____ Deg.		
2	.535	546	1.525	.946	Specific Gravity Separator Gas _____ XXXXXXXXXX		
3	.535	544	1.519	.946	Specific Gravity Flowing Fluid _____ XXXXXX		
4	.535	541	1.511	.946	Critical Pressure _____ 671 P.S.I.A. _____ P.S.I.A.		
5					Critical Temperature _____ 358 R _____ R		
$* P_c = 60.5$ $P_c^2 = 36,000$ $(1) \frac{P_c^2}{P_c^2 - P_w^2} = 2.190$ $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.019$							
NO.	P _w	F _w ²	P _c ² - F _w ²				
1	5391	29,063	6997				
2	5289	27,974	8086				
3	4781	22,853	13,202				
4	4424	19,572	16,488				
5							
Absolute Flow 1,462				Mcf/D 13.075		State, n. 896	
Remarks: *Pc & Pw from bottom hole pressure recorder @ 14,150'							
Approved By: _____		Conducted By: _____		Checked By: _____		Date: _____	

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New Mexico Oil Conservation Commission
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February 13, 1979

STATE OF NEW MEXICO
COUNTY OF LEA

SWORN TO BEFORE ME, the undersigned on this the 13 day of February, 1979.


Bennetta D. Holdridge
Bennetta D. Holdridge, Notary Public in
and for the County of Lea, State of New
Mexico.

My commission expires November 26, 1982.

RECEIVED
JAN 3 1980
OIL CONSERVATION DIV.