

N.E. MEXICO OIL CONSERVATION COM. ON
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Date 8-26-80	
Company Western Oil Prod.		Location E.P.N.G.	
Pool Clinton Rojo		Formation Morrow	
Completion Date 1-4-80	Total Depth 14,340	Flow Line In 14,294	Elevation 3386.7 G.R.
Casing Size 23/8		Set At 13,529	To 13,582
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 13,468	County Lea
Producing Thru Tbg.	Reservoir Temp. °F 210 @ 13,555	Mean Annual Temp. °F 600	State New Mexico
L 13,555	H 13,555	Gg .6231	% CO ₂ .501
		% N ₂ .853	% H ₂ S 13.2
		Prover	Meter Run 2"
			Flg.

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
St							5300				72 Hrs.
1.	2 x 1.250			415	2.25	60	4100				1 Hr.
2.	2 x 1.250			415	4.84	75	2910				1 Hr.
3.	2 x 1.250			420	6.76	90	1915				1 Hr.
4.	2 x 1.250			420	7.29	76	990				1 Hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super. Compens. Factor, F _{sp}	Rate of Flow Q, Mcf/D
1	8.120	31.04	428.2	1.000	1.267	1.041	332
2	8.120	45.52	428.2	.9859	1.267	1.036	478
3	8.120	54.11	433.2	.9723	1.267	1.034	560
4	8.120	56.20	433.2	.9850	1.267	1.037	591
5							

NO.	P _r	Temp. °R	T _r	Z	Gas-Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	.64	520	1.42	.922	Dry		.6231		671	365
2	.64	535	1.47	.931						
3	.65	550	1.51	.936						
4	.65	536	1.47	.930						
5										

NO.	P _r	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2}$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n$
1	5313.2	28230.1	4113.9	16924.2	1.037	1.025
2			2925.4	8558.0		
3			1931.2	3729.5		
4			1010.0	1020.1		
5						

Absolute Open Flow	606	Mc/D @ 15,025	Angle of Slope θ	56.5°	Slope, n	.662
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Remarks:

Approved By: <i>[Signature]</i>	Conducted By: Davis Services, Inc.	Calculated By: Rick Pagan	Checked By:
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