

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 11-29-73			
Company El Paso Natural Gas Company				Connection None					
Pool Rhodes				Formation Yates				Unit	
Completion Date 11-29-73		Total Depth 3160		Plug Back TD 3120		Elevation 2989.7 Gr		Farm or Lease Name Rhodes GSU	
Csg. Size 4 1/2	Wt. 10.5	d	Set At 3159	Perforations: From 2833 To 3053		Well No. 12			
Tbg. Size 2 3/8	Wt. 4.7	d	Set At 2745	Perforations: From To		Unit Soc. Twp. Rge. P 9 26 37			
Type Well - Single - Broadhead - G.G. or G.O. Multiple Single						Packer Set At		County Lea	
Producing Thru Tbg.		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	G _a Assumed .650	% CO ₂	% N ₂	% H ₂ S	XXXXXXXXXXXXXXXXXXXX Positive Chokes			

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
SI							957				17 hrs.
1.		3/16		950		58	950	58	950		45 M
2.		1/4		770		65	770	65	913		1 hr.
3.		5/16		756		67	756	67	886		1 hr.
4.		3/8		680		68	680	68	850		1 hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	.6101		963.2	1.002	1.240	1.100	803
2	1.112		783.2	.9952	1.240	1.082	1163
3	1.771		769.2	.9933	1.240	1.081	1799
4	2.591		693.2	.9924	1.240	1.072	2369
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	1.43	518	1.41	.826	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.	1.17	525	1.40	.854	Specific Gravity Separator Gas _____ XXXXXXXXXX
3.	1.15	527	1.40	.856	Specific Gravity Flowing Fluid _____ XXXXXX
4.	1.04	528	1.40	.870	Critical Pressure 670 P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature 375 R _____ R

P _c 970.2 P _c ² 941.3		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \underline{4.798}$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{2.406}$	
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	
1		963.2	927.8	13.5	
2		926.2	886.0	55.3	
3		899.2	808.6	132.7	
4		863.2	745.1	196.2	
5					

AOFP = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{5.701}$

Absolute Open Flow **5.701** Mcfd @ 15.025

Angle of Slope **60.75**

Slope, n **.560**

Remarks: **Large amount of water during last 3 rates.**

Approved By Commission: 	Conducted By: Kiker and Pagan	Calculated By: Kiker, Randy	Checked By:
-----------------------------	---	---------------------------------------	-------------