

N. 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 12-2-73	
Company El Paso Natural Gas Company		Connection None	
Pool Rhodes		Formation Yates	
Completion Date 12-2-73		Total Depth 3200	Plug Back TD ---
		Elevation 3000.6 Gr.	Farm or Lease Name Rhodes GSU
Csg. Size 4 1/2	Wt. 10.5	Set At 3200	Perforations: From 2863 To 3097
Tbg. Size 2 7/8	Wt. 4.7	Set At 2775	Perforations: From To
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At	Well No. 8
Producing Thru Tbg.	Reservoir Temp. °F @	Mean Annual Temp. °F	Baro. Press. - P _a
L H Gg		% CO ₂	% N ₂
.650 Assumed		% H ₂ S	Prover
		Meter Run	Taps
		Positive Chokes	

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow		
NO.	Prover X X X X X	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							997		997		18 Hrs.
1.		1/4		966		64	966	64	967		30 M
2.		5/16		925		66	925	66	940		1 hr.
3.		3/8		730		70	730	70	905		45 M
4.		1/2		580		72	580	72	844		1 H
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 Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	1.112		979.2	.9962	1.240	1.102	1482
2	1.771		938.2	.9943	1.240	1.099	2251
3	2.591		943.2	.9905	1.240	1.100	3301
4	4.722		593.2	.9887	1.240	1.061	3644
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	1.46	524	1.40	.823	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.	1.40	526	1.40	.828	Specific Gravity Separator Gas .650 X X X X X X X X
3.	1.41	530	1.41	.827	Specific Gravity Flowing Fluid X X X X X
4.	.89	532	1.42	.888	Critical Pressure 670 P.S.I.A.
5.					Critical Temperature 375 P.S.I.A.

P ₁ 1010.2 P _c 1020.5	
NO.	P _t ²
1	980.2
2	953.2
3	918.2
4	857.2
5	

$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 5.752$	$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.695$
$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 12.197$	

Absolute Open Flow 12.197	Mcf/d @ 15.025	Angle of Slope 53.25	Slope, n 747
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Remarks: Started making water on third and fourth rates.

Approved By Commission	Conducted By: Randy Kiker	Calculated By: Randy Kiker	Checked By:
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