

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 10-14-73	
Company El Paso Natural Gas Company				Connection None			
Pool Jalmat				Formation Rhodes Yates		Unit P	
Completion Date 10-14-73		Total Depth 3290		Plug Back TD 3290		Elevation 2942.8 Gr.	
Farm or Lease Name Rhodes G.U.		Well No. 23					
Csg. Size 4 1/2	Wt. 10.5	d 	Set At 3290	Perforations: From 2865 To 3117		Unit P	
Tbg. Size 2 3/8	Wt. 	d 	Set At 2754.45	Perforations: From To		Sec. Twp. Rye. 8 26 37	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		County Lea	
Producing Thru Tbg		Reservoir Temp. *F 		Mean Annual Temp. *F 		Baro. Press. - P _a 	
State New Mexico							
L 	H 	G _g .650(Assumed)	% CO ₂ 	% N ₂ 	% H ₂ S 	Prover 2"	Meter Run
Taps							

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							433		433		72 hr.
1.	2	x	1/8	288		66	388		389		1 hr.
2.	2	x	3/16	268		71	268		375		1 hr.
3.	2	x	7/32	210		73	210		376		1 hr.
4.	2	x	1/4	226		74	226		365		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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	.2648		401.2	.9943	1.240	1.041	136
2	.6082		281.2	.9896	1.240	1.028	216
3	.8393		233.2	.9877	1.240	1.022	234
4	1.087		239.2	.9858	1.240	1.023	317
5.							

NO.	P _i	Temp. *R	T _i	Z	Gas Liquid Hydrocarbon Ratio	Nil.	Mcf/bbl.
1.	.60	526	1.40	.923	A.P.I. Gravity of Liquid Hydrocarbons		Deg.
2.	.42	531	1.42	.947	Specific Gravity Separator Gas	.650	XXXXXXX
3.	.33	533	1.42	.958	Specific Gravity Flowing Fluid	XXXXX	
4.	.36	534	1.42	.955	Critical Pressure	670	P.S.I.A.
5.					Critical Temperature	375	R

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.549$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.549$
1		402.2	161.8	37.2		
2		388.2	150.7	48.4		
3		389.2	151.5	47.7		
4		378.2	143.0	56.1		
5						

Absolute Open Flow 1,125 Mcfd @ 15.025				Angle of Slope θ 45		Slope, n 1.000	
Remarks: Well made light mist of condensate and water on the third and fourth rates.							
Approved By Commission:		Conducted By: Roberts and Kiker		Calculated By: J. R. Murray		Checked By:	