

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 8-7-80			
Company El Paso Natural Gas Company				Connection El Paso Natural Gas Company					
Pool So. Blanco				Formation Pictured Cliff				Unit	
Completion Date 7-21-80		Total Depth 5597		Plug Back TD 5580		Elevation 6310 GL		Farm or Lease Name Jones A	
Csg. Size 7.000	Wt. 20.0	d 6.456	Set At 3260	Perforations: From 2905 To 3006			Well No. #4A (PC)		
Tbg. Size 1.660	Wt. 2.4	d 1.380	Set At 3017	Perforations: From To			Unit J	Sec. 13	Twp. 28
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. Dual				Packer Set At 3102			County San Juan		
Producing Thru Csg.		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 12		State New Mexico	
L	H	G _g 0.650	% CO ₂	% N ₂	% H ₂ S	Prover	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							623		623		17 Days
1.	Choke	0.750		78		64			78		3 Hours
2.											
3.											
4.											
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	12.365		90	0.9962	0.9608	1.009	1075
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

$P_c = 635$ $P_c^2 = 403225$					$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0205$	$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0174$
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²		
1	8100	90	8100	395125		
2						
3						
4						
5						

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1094$			
Absolute Open Flow 1094		Mcf @ 15.025	Angle of Slope @
			Slope, n 0.85

Remarks: The Well Produced 161 MCF Gas During The Test			
Approved By Commission:		Conducted By: Norman Waggoner	Calculated By: H. E. McAnally
		Checked By:	