

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

Form O-122
Revised 9-1-65

CORRECTED COPY

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 3-19-80			
Company <u>El Paso Natural Gas Company</u>				Connection			
Pool Blanco				Formation Mesa Verde		Unit San Juan	
Completion Date 1-3-80		Total Depth 6704		Plug Back TD 6686		Elevation	
Farm or Lease Name 27-4 Unit				Well No. #120			
Csg. Size 4.500	Wt. 10.5	d 4.052	Set At 6704	Perforations: From 5747 To 6648		Unit Sec. Twp. Rge. K 34 27 4	
Thg. Size 2.375	Wt. 4.7	d 1.995	Set At 6624	Perforations: From To		County Rio Arriba	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual G.G. (PM)				Packer Set At 4116		State New Mexico	
Producing Thru Tub.		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a	
L 4321	H	G _q	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 4"
						Taps XX	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	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							1240				76 Days
1.	4" X 2.750"			280	2.80	48°					
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	41.10	38.513		1.0117	1.240	1.034	205.5
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.			
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.			
2.					Specific Gravity Separator Gas .650 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			

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\frac{P_c^2}{P_c^2 - P_w^2} =$
1	85264	431	185761	1381743	1.1344	1.0992
2						
3						
4						
5						

Absolute Open Flow 2257 Mcfd @ 15.025				Angle of Slope θ _____		Slope, n .75	
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Remarks: Well was tested thru a 3/4" variable choke, with a test unit, and vented 142 MCF/D to the Atmosphere during test.			
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Approved By Commission:	Conducted By: C.R. Wagner & M. Burton	Calculated By: C.R. Wagner	Checked By:
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