

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 7-29-80				
Company El Paso Natural Gas Company				Connection El Paso Natural Gas Company					
Pool So. Blanco				Formation Pictured Cliffs				Unit	
Completion Date 6-28-80		Total Depth 5441		Plug Back TD 5424		Elevation 6326 GL		Farm or Lease Name Hardie E	
Csg. Size 7.000	Wt. 20.0	d 6.456	Set At 3150	Perforations: From 2801 To 2910		Well No. #2A (PC)			
Tbg. Size 1.660	Wt. 2.4	d 1.380	Set At 2891	Perforations: From To		Unit P	Sec. 9	Twp. 28	Rge. 8
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. Dual					Packer Set At 2994		County Rio Arriba		
Producing Thru Csg.		Reservoir Temp. *F @		Mean Annual Temp. *F		Baro. Press. - P _a 12		State New Mexico	
L	H	Gg 0.635	% 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							1022		1022		31 Days
1.	Choke		0.750	189		69			192		3 Hrs.
2.											
3.											
4.											
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	12.365		201	0.9915	0.9721	1.017	2436
2.							
3.							
4.							
5.							

NO.	P _r	Temp. *R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	
					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.	
					Specific Gravity Separator Gas _____	XXXXXXXXXXXX
					Specific Gravity Flowing Fluid _____	XXXXXXXX
					Critical Pressure _____ P.S.I.A.	_____ P.S.I.A.
5.					Critical Temperature _____ R	_____ R

P _c 1034	P _c ² 1069156		
NO.	P _w	P _w ²	P _c ² - P _w ²
1	40401	204	41616
2			
3			
4			
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0405 \quad (2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0343$$

$$ACF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2520$$

Absolute Open Flow _____ 2520 _____ Mcfd @ 15.025	Angle of Slope @ _____	Slope, n _____ 0.85
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Remarks: The Well Produced 429 MCF Gas During The Test.

Approved By Commission:	Conducted By: Norman Waggoner	Calculated By: H. E. McAnally	Checked By:
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