

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 3-4-81			
Company El Paso Natural Gas Company				Connection El Paso Natural Gas Company					
Pool Blanco				Formation Mesa Verde				Unit	
Completion Date 2-22-81		Total Depth 4906		Plug Back TD 4887		Elevation 5663 GL		Farm or Lease Name Lackey A	
Csg. Size 7.000	Wt. 20	d 6.456	Set At 2513	Perforations: From *3814 To 4857		Well No. #1R (MV)			
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 4827	Perforations: From To		Unit A	Sec. 12	Twp. 29	Rge. 10
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Dual						Packer Set At 2381		County San Juan	
Producing Thru Tbg.		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a 12		State New Mexico	
L	H	G _g 0.620	% 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							812				10 Days
1.	Choke		0.750	9		60					
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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		21	1.0000	0.9837	1.004	256
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	Deq.
2.					Specific Gravity Separator Gas	XXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXX
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

P _c 824	P _c ² 678976		
NO.	P _r ²	P _w	P _w ²
1	441	40	1600
2			
3			
4			
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0024$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0018$$

$$ACF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 256$$

Absolute Open Flow	Mcf @ 15.025	Angle of Slope	Slope, n 0.75
--------------------	--------------	----------------	---------------

Remarks: * 4,500 liner from 2370 to 4906.
Vented 26 MCF Gas During The Test.

Approved By Division	Conducted By: Bobby Haire	Calculated By: H. E. McAnally	Checked By:
----------------------	------------------------------	----------------------------------	-------------