

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 4-20-81	
Company El Paso Natural Gas Company				Connection El Paso Natural Gas Company			
Pool Blanco				Formation Mesa Verde			
Completion Date 4-12-81		Total Depth 5945		Plug Back TD 5927		Elevation 6575 GR	
Csg. Size *7.000		ID 20		Set At 6.456		3629	
Perforations From 5487 To 5898		Well No. #61A (MV)					
Tub. Size 2.375		ID 4.7		Set At 1.995		5866	
Perforations From To		Unit P 10 28 7					
Type Well - Single - Dragoonhead - G.G. or G.O. Multiple G. G. Dual						Packer Set At 3483	
Producing Thru Tbg.		Reservoir Temp. °F 8		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 _v	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
1.	0.750		Choke	259		66	680				8 Days
2.											3 Hr.
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_{in}}$	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		271	.9943	.9608	1.027	3,288
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 <td>Deg.</td>	Deg.
2.					Specific Gravity Separator Gas <td>XXXXXX</td>	XXXXXX
3.					Specific Gravity Flowing Fluid <td>XXXXXX</td>	XXXXXX
4.					Critical Pressure <td>P.S.I.A.</td>	P.S.I.A.
5.					Critical Temperature <td>°F</td>	°F

P _c 692		P _w 478864		(1) $\frac{P_c^2}{P_w^2 - P_c^2} = 2.8400$		(2) $\left[\frac{P_c^2}{P_w^2 - P_c^2} \right]^n = 2.1877$	
NO.	P _r	P _w	P _r ²	P _w ²	P _r ² - P _w ²		
1.	73441	557	310249	16815			
2.							
3.							
4.							
5.							

Absolute Open Flow 7,193		Mod. # 15.025		Angle of Slope θ		Slope, n 0.75	
Remarks: *4 1/2" Liner 3475 to 5945 Gas Vented During Test 456 MCF							

Approved By Division	Conducted By John Easley	Calculated By R. E. Headrick	Checked By
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