

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 12-29-97	
Company McElvain Oil and Gas Properties				Connection EPFS	
Pool Blanco				Formation Mesaverde	
Completion Date 12-22-97		Total Depth 6284		Plug Back TD 6242	
Elevation				Farm or Lease Name Brown Federal	
Csg. Size 7"		Wt. 20#		Set At 3904	
Perforations: From 4848 To 6128		Well No. 1A			
Tub. Size 2.375		Wt. 4.7		Set At 6111	
Perforations: From Open To Ended		Unit J		Sec. 9	
		Twp. 32		Rge. 10	
Type Well - Single - Brdenhead - G.C. or G.O. Multiple Single				Packer Set At None	
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F	
		Baro. Press. - P _a 11 psi est.		County San Juan	
L		H		State New Mexico	
G _g		% 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	
51	7 days						776		939		No Flow
1.											
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							
2							
3							
4							
5							

NO.	R ₁	Temp. °R	T _r	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

NO.	P ₁ ²	P _w ²	P _r ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ _____	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ _____
1						
2						
3						
4						
5						

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

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Absolute Open Flow _____ Mcfd @ 15.025	Angle of Slope _____	Slope, n _____
Remarks: _____		

Approved By Division	Conducted By: Joe Elledge	Calculated By:	Checked By: Larry VanRyan
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