

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☐ Initial ☐ Annual ☒ Special				Test Date 12-4-84		DEC 06 1984	
Company Caulkins Oil Company				Connection			
Pool Blanco Mesa Verde				Formation Mesa Verde		Unit DIST. 3	
Completion Date 7-25-84		Total Depth 7575'		Plug Back TD 7575'		Elevation 6605	
Farm or Lease Name Breech "C"		Well No. 244-E					
Ceq. Size 5 1/2"		Wt. 17# 15.5		Perforations: From 4824' To 5444'		Unit Sec. Twp. Rge. E 14 26N 6W	
Tbg. Size 1 1/4"		Wt. 2.3#		Perforations: From 5479' To			
Type Well - Single - Brodenhead - G.G. or G.O. Multiple Gas - Gas Dual				Packer Set At 5530'		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		State New Mexico	
L		H		Gg		% 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		1186		SI Pressure
1.							96		789		3 Hours
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	14.1605		108	1.000	1.000	1.000	1,529
2.							
3.							
4.							
5.							

NO.	P _t	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 _____ XXXXXXXXXX
3					Specific Gravity Flowing Fluid _____ XXXXX
4					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5					Critical Temperature _____ R _____ R

P _c 1198 P _c 21 435,204		(1) $\frac{P_c^2}{P_t^2 - P_w^2} = 1.808$		(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 1.559$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1		801	641,601	793,603	
2					
3					
4					
5					

$$AOF = Q \left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 2,384$$

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Absolute Open Flow	2,384	Mcfd @ 15.025	Angle of Slope @	75	Slope, n
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Remarks: 2nd test after well shut-in 122 days.

Approved By Division	Conducted By:	Calculated By:	Checked By:
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