

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date	
Company Caulkins Oil Company				Connection		
Pool Blanco Mesa Verde				Formation Mesa Verde		Unit
Completion Date 9-10-81		Total Depth 7800		Plug Back TD 7800		Elevation 6754 Gr.
Csg. Size 5 1/2"		Wt. 17#	d 4.950	Perforations: From 5728 To 5030		Well No. 64M
Tbg. Size 1 1/4"		Wt. 2.30#	d 1.380	Perforations: From 5757 To		Unit Sec. Twp. Rge. J 1 26N 6W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Gas Multiple				Packer Set At 5787		County Rio Arriba
Producing Thru Tubing		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a State New Mexico
L	H	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
SI							709		709		7 Day SI
1.							31		533		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 O. Mcfd
1	14.1605		43	1.000	1.000	1.000	609
2.							
3.							
4.							
5.							

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

P _c 721 P _c ² 519,841		(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 2.333$		(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 3.929$	
NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²	
1		545	297,025	222,816	
2					
3					
4					
5					

$AOF = Q \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2,392$

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Absolute Open Flow	2,392	Mcf @ 15.025	Angle of Slope	75	Slope, n
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Remarks:

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