

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 10-25-81			
Company Caulkins Oil Company				Connection					
Pool Blanco Mesa Verde				Formation Mesa Verde				Unit	
Completion Date 10-18-81		Total Depth 7500'		Plug Back TD 7500'		Elevation 6508' Gr.		Farm or Lease Name Breech F	
Gas. Size 5 1/2"	Wt. 17# 15.5#	d 4.950 4.892	Set At 7500	Perforations: From 4748 To 5452		Well No. 4M			
Thq. Size 1 1/4"	Wt. 2.30#	d 1.380	Set At 5936	Perforations: From 5936 To		Unit Sec. Twp. Rge. P 33 27N 6W			
Type Well - Single - Broadhead - G.G. or G.O. Multiple Gas - Gas Multiple						Packer Set At 5709		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F °		Mean Annual Temp. °F		Baro. Press. - P _a		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
51							62		1053		7 Day
1.							69		577		3 hr.
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.	14.1605		81	1.000	1.000	1.000	1,147
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	
3.					Specific Gravity Flowing Fluid	
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R



NO.	P _t ²	P _w ²	P _w ²	P _t ² - P _w ²	(1) $\frac{P_c^2}{P_t^2 - P_w^2} = 1.441$	(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 1.315$
1		589	346,921	787,304		
2						
3						
4						
5						

$$AOF = Q \left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1,508$$

Absolute Open Flow	1508	Mcf/d @ 13.025	Angle of Slope °	75	Slope, n
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Remarks:

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