

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL.

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 10-12-81			
Company Caulkins Oil Company				Connection					
Pool Blanco Mesa Verde				Formation Mesa Verde				Unit	
Completion Date 10-05-81		Total Depth 7601'		Plug Back TD 7601		Elevation 6678' Gr.		Farm or Lease Name Breech C	
Coq. Size 5 1/2"	Wt. 17 & 15.5#	d 4.950 4.892	Set At 7601	Perforations: From 5448 To 5282		Well No. 323E			
Tqg. Size 1 1/4"	Wt. 2.3#	d 1.380	Set At 5515	Perforations: From 5515 To		Unit Sec. Twp. Rge. P 14 26N 6W			
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Gas - Gas Multiple						Packer Set At 5601		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	Gq	% 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
SI							673		1169		7 Days
1.							31		347		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 Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, 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 Ratio	Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons	Deq.
2.					Specific Gravity Separator Gas	X X X X X
3.					Specific Gravity Flowing Fluid	X X X X X
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

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NO.	P ₁ ²	P _w ²	P ₂ ²	P ₂ ² - P _w ²	(1) $\frac{P_c^2}{P_2^2 - P_w^2} = 1.1018$	(2) $\left[\frac{P_c^2}{P_2^2 - P_w^2} \right]^n = 1.075$
1		359	128,881	1,265,880		
2.						
3.						
4.						
5.						

AOF = Q $\left[\frac{P_c^2}{P_2^2 - P_w^2} \right]^n = 654$

Absolute Open Flow	654	Mcf/d @ 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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