

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special Date 7-17-76			
Company Caulkins Oil Company		Connection	
Pool Undes Gallup		Formation Gallup	
Completion Date 7-8-76		Total Depth 6873	Plug Back To 6723
		Elevation 6638	Land or Lease Name Breech "A"
Gas. Size 7"	Wt. 24#	d 6.366	Set At 6812
		Perforations From 6631 To 6679	Well No. 157
Thg. Size 1 1/4	Wt. 2.3	d 1.380	Set At 6560
		Perforations From 6560 To	Unit E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single Gas		Prove. Set At	County Rio Arriba
Producing Thru	Reservoir Temp. °F	Mean Annual Temp. °F	State New Mexico
L	H	Gg	% CO ₂
			% N ₂
			% H ₂ O
		Prover	Meter Run
			Days

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
1.	7 Days						1275		1290		
2.							25		400		3 hrs.
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super. Compens. Factor F _{pv}	Rate of Flow Q, Mscf
1	14.1605		37	1.000	1.000	1.000	524
2							
3							
4							
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/Day
1					A.P.I. Gravity of Liquid Hydrocarbons	
2					Specific Gravity Separator Gas	
3					Specific Gravity Flowing Fluid	
4					Critical Pressure	
5					Critical Temperature	

P _c 1302	P _c ² 1,695,204	
NO.	P _t ²	P _w
1	412	169,744
2		
3		
4		
5		

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \mathbf{1.11}$	$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \mathbf{1.0814}$
ADP = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \mathbf{566}$	

Absolute Open Flow 566	Mscf @ 14.7 psia	Angle of Slope @ 75	Slope, n
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Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
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