

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 11-15-81	
Company Caulkins Oil Company		Connection	
Pool Blanco		Formation Mesa Verde	
Completion Date 11-08-81	Total Depth 7512	Plug Back TD 7512	Elevation 6608' Gr.
Form or Lease Name Breech B		Well No. 123E	
Csg. Size 5 1/2"	Wt. 17# 15.5#	d 4.950 4.892	Set At 7512
Perforations: From 5366 To 5178		Well No. 123E	
Tbg. Size 1 1/4"	Wt. 2.33#	d 1.660	Set At 5378
Perforations: From 5378 To		Unit Sec. Twp. Rge. D 7 26N 6W	
Type Well - Single - Broadhead - G.C. or G.O. Multiple Gas - Gas Multiple		Packer Set At 5508	
Producing Thru Tubing		Baro. Press. - P _a	
Reservoir Temp. °F #		Mean Annual Temp. °F	
State New Mexico		County Rio Arriba	
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							987		987		7 Days
1.							79		563		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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	14.1605		91	1.000	1.000	1.000	1289
2.							
3.							
4.							
5.							

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

P _c 999	P _c ² 998,001	
NO.	P _r ²	P _w ²
1	575	330,625
2		
3		
4		
5		

(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.495$

AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1,743$

(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.35229$

Absolute Open Flow	1743	Mcfd @ 15.025	Angle of Slope @	75	Slope, n
Remarks:					

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