

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 Basin				Formation Dakota				Unit	
Completion Date 11-08-81		Total Depth 7512		Plug Back TD 7512		Elevation 6608' Gr.		Farm or Lease Name Breech B	
Csg. Size 5 1/2"	Wt. 17# 15.5#	d 4.950 4.892	Set At 7512	Perforations: From 7370 To 7216		Well No. 123E			
Tbg. Size 1 1/4"	Wt. 2.33#	d 1.660	Set At 7352	Perforations: From 7352 To		Unit Sec. Twp. Rge. D 7 26N 6W			
Type Well - Single - Draddenhead - G.G. or G.O. Multiple Gas - Gas Multiple						Packer Set At 5508		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F P		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							1751		PKR		7 Days
1.							143		PKR		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 _{sp}	Rate of Flow Q, Mcfd
1	14.1605		155	1.000	1.000	1.000	2,194
2.							
3.							
4.							
5.							

NO.	P _i	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
1										
2.										
3.										
4.										
5										

NO.	P _i ²	P _w ²	P _w ²	P _i ² - P _w ²	(1) $\frac{P_c^2}{P_i^2 - P_w^2}$	(2) $\left[\frac{P_c^2}{P_i^2 - P_w^2} \right]^n$
1	24,025	679	461,855	2,646,314	1.1745	1.12823
2						
3						
4						
5						

Absolute Open Flow <u>2,475</u> Mcfd @ 15.025				Angle of Slope <u>75</u>		Slope, n	
Remarks:							
Approved By Division		Conducted By:		Calculated By:		Checked By:	