

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special			Test Date 10-1-85	
Company Caulkins Oil Company			Connection	
Pool Blanco Mesa Verde - Basin Dakota			Formation Mesa Verde - Dakota	
Completion Date 9-24-85		Total Depth 7420'	Plug Back TD 7328'	Elevation 6496 GR
Csg. Size 5 1/2"		Wt. 15.5&17#	Set At 4.892	Perforations: From 4516 To 7294
Tbg. Size 1 1/2"		Wt. 3.25#	Set At 1.900	Perforations: From 7271' To
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Gas-Gas Commingled			Packer Set At 5370'	Unit L 8 26N 6W
Producing Thru Tubing		Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. - P _a
County Rio Arriba			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 _{vr}	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							1338		PKR		7 Days
1.							387		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 _{pv}	Rate of Flow O. Mcfd
1.	6.115		399	1.000	1.000	1.000	2,440
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
1.										
2.										
3.										
4.										
5.										

P _c 1350	P _c ² 1,822,500						
NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_c^2}{P_r^2 - P_w^2}$	(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n$	
1.	159,201	797	635,099	1,187,401	1.535	1.3790	
2.							
3.							
4.							
5.							

Absolute Open Flow 3,365 Mcfd @ 15.025		Angle of Slope 75		Slope, n	
Remarks: Commingled well:					
CAOF Dakota Zone = 75% of 3365 or 2,523					
CAOF MV Zone = 25% of 3365 or 842					
Approved by Division	Conducted By:	Calculated By:	Checked By:		