

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 10-1-85		CON. DIV. DIST. 3	
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		Form or Lease Name Breech "A"			
Coq. Size 5 1/2"	Wt. 15.5&17#	Set At 4.892	7328'	Well No. 625-E	
Tbg. Size 1 1/2"	Wt. 3.25#	Set At 1.900	7271'	Unit Sec. Twp. Rge. L 8 26N 6W	
Type Well - Single - Drillinghead - G.C. or G.O. Multiple Gas-Gas Commingled			Packer Set At 5370'		County Rio Arriba
Producing Thru Tubing		Reservoir Temp. °F		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							1338		PK 3		7 Days
1.							387		PK 3		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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, 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 _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ XXXXXXXXXX
3.					Specific Gravity Flowing Fluid _____ XXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

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

Absolute Open Flow 3,365		Mcf @ 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:	