

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 7-13-84		AUG 18 1984 OIL CON. DIV DIST. 3	
Company Caulkins Oil Company				Connection					
Pool Blanco Mesa Verde				Formation Mesa Verde				Unit	
Completion Date 7-24-84		Total Depth 7600'		Plug Back TD 7600'		Elevation 6587		Farm or Lease Name Breech	
Csg. Size 5.500	Wt. 15.5&17#	d 4.892	Set At 7600	Perforations From 5198 To 5490		Well No. 58-M			
Tbg. Size 1 1/4"	Wt. 2.3#	d 1.380	Set At 5507	Perforations From 5507 To		Unit Sec. Twp. Rge. P 3 26N 6W			
Type Well - Single - Orndorffhead - G.C. or G.O. Multiple Gas Gas Multiple				Packer Set At 5580		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							1112		1161		7 Days
1.							109		514		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 O, Mcfd
1	14.1605		121	1.000	1.000	1.000	1,713
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

$P_c = 1173$ $P_c^2 = 1,375,929$					$(1) \frac{P_c^2}{P_r^2 - P_w^2} = 1.2517$		$(2) \left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.1834$	
NO.	P _r ²	P _w	P _r ²	P _r ² - P _w ²				
1		526	276,676	1,099,253				
2								
3								
4								
5								

$AOF = Q \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2027$				
Absolute Open Flow _____ 2027 _____ Mcfd @ 15.025		Angle of Slope _____ 75		Slope, n _____
Remarks _____				
Approved By Division _____ Conducted By _____ Calculated By _____ Checked By _____				