

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 7-14-83			
Company Caulkins Oil Company				Connection OIL					
Pool Blanco Mesa Verde				Formation Mesa Verde				Unit D13	
Completion Date 7-7-83		Total Depth 7612'		Plug Back TD 7612'		Elevation 6592 GR		Farm or Lease Name State "A"	
Coq. Size 5 1/2"	Wt. 17# 15.5#	d 4.950 4.892	Set At 7612'	Perforations: From 5518' To 4877'		Well No. 62-M			
Tub. Size 1 1/4"	Wt. 2.33#	d 1.660	Set At 5475'	Perforations: From 5474 To		Unit Sec. Twp. Rge. D 2 26N 6 W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Gas Multiple						Packer Set At 5654		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							925		928		7 Days
1.							40		397		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		52	1.000	1.000	1.000	736
2.							
3.							
4.							
5.							

NO.	P _t	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 _____ XXXXXX
4					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5					Critical Temperature _____ R _____ R

P _c 940	P _c ² 883,600			
NO.	P _t ²	P _w	P _t ²	P _c ² - P _w ²
1		409	167,281	716,319
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_t^2 - P_w^2} = 1.234$

AOF = Q $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 861$

(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1.170$

Absolute Open Flow _____ 861 _____ Mcfd @ 15.025	Angle of Slope @ _____ 75 _____	Slope, n _____
Remarks: _____		
Approved By Division _____	Conducted By: _____	Calculated By: _____
Checked By: _____		