

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 10-18-85	
Company Caulkins Oil Company		Connection	
Pool Blanco Mesa Verde		Formation Mesa Verde	
Completion Date 10-11-85		Total Depth 6825'	Plug Back TD 6825'
Elevation 6112 GR		Farm or Lease Name Breach "B"	
Csg. Size 5 1/2"	Wt. 15.5&17#	Set At 4.892	Perforations From 4557' To 6674'
Well No. 220-M			
Tub. Size 1 1/4"	Wt. 2.3#	Set At 1.380	Perforations From 4642' To
Unit E		Sec. 14	Twp. 26N
Range 7W			
Type Well - Single - Drdhead - G.C. or G.O. Multiple Gas - Gas Multiple		Packer Set At 4756'	County Rio Arriba
Producing Thru Tubing		Reservoir Temp. °F #	Mean Annual Temp. °F
Baro. Press. - P _g		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.	
SI							736		913	
1.							51		522	
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 _{pv}	Rate of Flow Q, Mcfd
1	14.1605		63	1.000	1.000	1.000	892
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _g	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

NO.	P ₁ ²	P _w	P _w ²	P _c ² - P _w ²
1		534	285,156	570,469
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_t^2 - P_w^2} = \frac{1.4999}{1.3553}$$

$$AOF = Q \left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1.209$$

$$(2) \left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1.3553$$

Absolute Open Flow	1,209	Mcf @ 15.025	Angle of Slope @	Slope, n	75
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Remarks			
Approved By Division	Conducted By	Calculated By	Checked By