

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 9-29-77			
Company Jerome P. McHugh				Connection					
Pool Blanco Mesa Verde				Formation Mesa Verde				Unit	
Completion Date 8-13-77		Total Depth 6175'		Plug Back TD 6112'		Elevation 6975'		Farm or Lease Name Chris	
Gas. Size 4½	Wt. 10.5#	d	Set At 6174"	Perforations: From 5616 To 6056		Well No. 2A			
Trg. Size 1½	Wt. 2.4#	d	Set At 6057	Perforations: From Open To End		Unit Sec. Twp. Rge. 10 27 3			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single Gas						Packer Set At		County Rio Arriba	
Producing Thru CSG		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	Gg .65	% 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							1500		1660		7 days
1.											
2.											
3.	3/4" Pos Choke						430		265	68°	3 hrs.
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1							
2							
3	12.365		277	.9924	.9608	1.027	3354
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 _____ X X X X X X X X
3					Specific Gravity Flowing Fluid _____ X X X X X
4					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5					Critical Temperature _____ R _____ R

F _c 1672 F _c ² 2795584					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0751$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0557$	
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3540$			
1								
2								
3		442	195364	2600220				
4								
5								

Absolute Open Flow 3540		Mcf @ 15.025		Angle of Slope @		Slope, m .75	
Remarks: well tested on CSG							
Approved By Commission:		Conducted By: C. Hall		Calculated By: C. Hall		Checked By:	