

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

Form C-122
 Revised 9-1-65

Type Test: ☒ Initial ☐ Annual ☐ Special						Test Date: 4-27-78			
Company: Southland Royalty				Connection: Southern Union Gathering					
Pool: Blanco				Formation: Mesa Verde				Unit:	
Completion Date: 4-14-78		Total Depth: 4967'		Plug Back TD: 4857		Elevation: 5858' GR		Farm or Lease Name: Culpepper Martin	
Comp. Size: 7,000	Val: 20#	d: 6.456	Set At: 2470'	Perforations: From 4538' To 4860'		Well No.: 9A			
Tbg. Size: 4.500	Wt.: 10.5#	d: 4.052	Set At: 303-4967	Perforations: From To		Unit: Sec. Twp. Rge.			
2.375	4.7#	1.995	4822			A Sec. 30-32N-12W			
Type Well - Single - Bradenhead - G.C. or G.O. Multiple						Facker Set At		County: San Juan	
Producing Thru: Tbg		Reservoir Temp. °F: ρ		Mean Annual Temp. °F		Baro. Press. - P _a : 12.2		State: New Mexico	
L	H	G _g : .700	% 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							780		998		
1.	2 X 3/4						318		844		1 HR
2.							315		773		2 HR
3.							312		742		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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		324.2	1.0000	.9258	1.0000	3,711
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 _____ 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

P _c 1010.2 P _c ² 1,020,504				
NO.	P _t	P _w	P _w ²	P _c ² - P _w ²
1		754.2	568,818	451,686
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.2593$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 6,839$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.8428$

Absolute Open Flow: 6,839	Mcf @ 15.025	Angle of Slope θ: .75
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Remarks:

Approved By Commission:	Conducted By: Cliff Pistole	Calculated By: James Smith	Checked By:
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