

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 5-30-79	
Company Southland Royalty Company		Connection Southern Union Gathering	
Pool Blanco		Formation Mesaverde	
Completion Date 5-23-79	Total Depth 4900'	Plug Back TD 4811'	Elevation 5801' GR
Farm or Lease Name Culpepper Martin		Well No. 2-A	
Gr. Size 7.000 4.500	Wt. 20# 10.5#	d 6.456 4.052	Set At 2393' 2237-4896'
Perforations: From 4533' To 4763'		Unit Soc. Twp. Rge. N 30 32N 12W	
Tub. Size 2.375	Wt. 4.7#	d 1.995	Set At 4728'
Type Well - Single - Bradenhead - G.G. or G.O. Multiple		Packer Set At	
Producing Thru Tbg		Baro. Press. - P _a 12.2	
Reservoir Temp. °F 8		Mean Annual Temp. °F	
L H Gg .700		% CO ₂ % N ₂ % H ₂ S	
Prover		Meter Run Taps	
COUNTY San Juan			
STATE New Mexico			

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							996		998		
1.	2" X 3/4"						396		761		1 hr.
2.							381		728		2 hrs.
3.							369		701		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	12.365		381.2	1.0000	.9258	1.0000	4364
2.							
3.							
4.							
5.							

NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.	Specific Gravity Separator Gas _____ X X X X X X X X	Specific Gravity Flowing Fluid _____ X X X X X	Critical Pressure _____ P.S.I.A.	Critical Temperature _____ R
1.										
2.										
3.										
4.										
5.										

NO.	P _f	P _w	P _w ²	P _f ² - P _w ²	(1) $\frac{P_f^2}{P_f^2 - P_w^2} =$	(2) $\left[\frac{P_f^2}{P_f^2 - P_w^2} \right]^n =$
1		713.2	508,654	511,850	1.9938	1.6779
2						
3						
4						
5						

Absolute Open Flow 7322 Mcfd @ 15.025		Angle of Slope 75	
Remarks:			
Approved by: _____		Conducted by: Tom Short	
Calculated by: _____		Checked by: _____	