

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

Form C-111
 Revised 6-1-75

Type Test: ☒ Initial ☐ Annual ☐ Special					Test Date: 5-29-79	
Company: Southland Royalty Company				Connection: Southern Union Gathering		
Pool: Blanco				Formation: Mesa Verde		Unit:
Completion Date: 5-25-79		Total Depth: 5020'		Plug Back TD: 4923'		Elevation: 5862' GR
Farm or Lease Name: Culpepper Martin						Well No.: #8-A
Csg. Size: 7.0000	Wt. 20#	d 6.456	Set At 2483'	Perforations: From 4529' To 4859'		Unit Sec. Twp. Rge.: I 19 32N 12W
Csg. Size: 4.5000	Wt. 10.5#	d 4.052	Set At 2310'	Perforations: From To		
Tubg. Size: 2.375	Wt. 4.7#	d 1.995	Set At 4839'	From To		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple				Packer Set At: ---		County: San Juan
Producing Thru: Tubing		Reservoir Temp. *F: @		Mean Annual Temp. *F: 12.2		State: New Mexico
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover Meter Run Taps
		.700				

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							956		956		
1.	2 " X 3/4"						363		745		1 Hr.
2.							334		703		2 Hrs.
3.							321		676		3 Hrs.
4.											
5.											

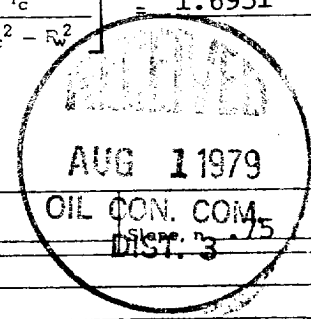
RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor Fpv	Rate of Flow Q, Mcfd
1	12.365		333.2	1.0000	.9258	1.0000	3814
2.							
3.							
4.							
5.							

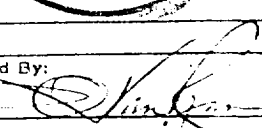
NO.	P _r	Temp. *R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.				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

P _c 968.2 P _c ² 937,411		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.0212$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.6951$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1		688.2	473,619	463,792	
2					
3					
4					
5					

ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 6465$

Absolute Open Flow **6465** Mcfd @ 15.025 Angle of Slope θ _____



Approved By Commission:	Conducted By: Tom Short	Calculated By: James Smith	Checked By: 
-------------------------	--------------------------------	-----------------------------------	---

