

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

Form C-117
 Revised 9-1-75

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 8-11-79	
Company Southland Royalty Company				Connection Southern Union Gathering			
Pool Blanco				Formation Pictured Cliffs		Unit	
Completion Date 8-4-79		Total Depth 5225'		Plug Back TD 5222'		Elevation 6198' GR	
Farm or Lease Name Grenier		Well No. 4-A					
Cap. Size 7.000	Wt. 23#	d 6.366	Set At 2970	Perforations: From 2788' To 2803'			
Tub. Size 1.900	Wt. 2.76#	d 1.610	Set At 2772	Perforations: From To		Unit Sec. Twp. Rge. M 7 31N 11W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Multiple				Packer Set At 2954'		County San Juan	
Producing Thru Tbg		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 12.2	
State New Mexico							
L	H	Gg .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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
1	2"	X	3/4"				730		730	
2							65		225	1 hr
3							43		163	2 hrs
4							34		139	3 hrs
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		46.2	1.0000	.9258	1.0000	529
2							
3							
4							
5							

NO.	P _t	Temp. °R	T _f	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 _____ XXXXXX
4					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5					Critical Temperature _____ R _____ R

P _t 742.2	P _c 550,861	
NO.	P _t ²	P _w
1	151.2	22,861
2		
3		
4		
5		

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0433$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 548$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0367$

Absolute Open Flow 548	Mcf/d @ 15.025	Angle of Slope θ	Slope, n .85
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Remarks: _____

Approved By Commission:	Conducted By: Mick Ferrari	Calculated By: James Smith	Checked By:
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