

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 6-3-81			
Company Southland Royalty Company				Connection Southern Union Gathering					
Pool Aztec				Formation Fruitland				Unit	
Completion Date 4-9-81		Total Depth 2550'		Plug Back TD 2527'		Elevation 5948' GR		Farm or Lease Name Grenier "B"	
Csq. Size 2.875	Wt. 6.5#	d 2.441	Set At 2535'	Perforations: From 2178' To 2210'		Well No. 10			
Thq. Size	Wt.	d	Set At	Perforations: From To		Unit Sec. Twp. Rye. F 4 29N 10W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. - Single						Packer Set At -----		County San Juan	
Producing Thru Casing		Reservoir Temp. °F p		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	Gg	% 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									723		
1.	2"	X	3/4"						98		1 hr
2.									78		2 hrs
3.									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	12.365		80.2	1.0000	.9258	1.0000	918
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 X
3.					Specific Gravity Flowing Fluid _____ X X X X X X X X X
4.					Critical Pressure _____ P.S.I.A.
5.					Critical Temperature _____ R

P _c 735.2 P _c ² 540519.0				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0120$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0102$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²			
1		80.2	6432.0	534087			
2							
3							
4							
5							

Absolute Open Flow 927 _____ Mcfd @ 15.025				Angle of Slope θ _____		Slope, n .85	
Remarks: _____							

Approved By Division	Conducted By: Dean Lingo	Calculated By: James Smith	Checked By: L.O. Van Ryan
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