

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 6-16-81	
Company Southland Royalty Company				Connection Southern Union Gathering			
Pool Blanco				Formation Mesa Verde		Unit	
Completion Date 5-31-81		Total Depth 6910'		Plug Back TD 6863'		Elevation 5847' GR	
Farm or Lease Name Grenier "B"							
Csq. Size 5.500	Wt. 17#	d 4.892	Set At 6910'	Perforations: Menefee From 4167' To 4395'		Well No. 3-E	
Thq. Size 1.900	Wt. 2.76#	d 1.610	Set At 4814'	Perforations: Point Lookout From 4465' To 4878'		Unit Sec. Twp. Rye. J 5 29N 10W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Multiple - G.G.				Packer Set At 5014'		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F 8		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. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI							1137		1137	
1.	2"	X	3/4"				286		966	1 hr
2.							268		905	2 hrs
3.							238		877	3 hrs
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcld
1	12.365		250.2	1.0000	.9258	1.0000	2864
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/tbl.
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
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

P _c 1149.2 P _c ² 1,320,660.6			
NO.	P _t ²	P _w	P _w ²
1		889.2	790676.6
2			
3			
4			
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{2.4919}{}$$

$$AOF = Q \cdot \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{5680}{}$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.9833}{}$$

Absolute Open Flow	5680	Mcfld @ 15.025	Angle of Slope θ	Slope, n	.75
Remarks:					

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