

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Revised 9/1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 6-29-78			
Company Southland Royalty Company				Connection Southern Union Gathering					
Pool Blanco				Formation Mesa Verde				Unit	
Completion Date 6-19-78		Total Depth 5225'		Plug Back TD 5157'		Elevation 6049' GR		Farm or Lease Name Nye	
Gas Size 7.000"	Wt. 20#	d 6.456	Set At 2901'	Perforations: From 4850' To 5087'		Well No. 1A			
Gas Size 4.500"	Wt. 10.5#	d 4.052	Set At 2763-5222'	Perforations: From To		Unit Soc. Twp. Rge. 0 12 30N 11W			
Gas Size 2.375"	Wt. 4.7#	d 1.995	Set At 5073'	Perforations: From To		County San Juan			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At		State New Mexico			
Producing Thru Tbg.		Reservoir Temp. °F p		Mean Annual Temp. °F		Baro. Press. - P _a 12.2			
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.	
SI							825		823	
1.	2" x 3/4"						225		563	1 Hr.
2.							208		516	2 Hrs.
3.							195		481	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		207.2	1.0000	.9258	1.0000	2372
2.							
3.							
4.							
5.							

NO.	P _f	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 _____ 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 837.2 P_c² 700,904

NO.	P _f ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.5315$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3767$
1		493.2	243,246	457,658		
2						
3						
4						
5						

AOI = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3,266$

Absolute Open Flow <u>3,266</u> Mcfd @ 15,025		Angle of Slope θ _____		Slope, n <u>.75</u>	
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Remarks: _____

Approved By Consultant	Conducted By Abe Saiz	Calculated By James Smith	Checked By
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