

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 6-25-78			
Company Southland Royalty Company				Connection Southern Union Gathering					
Pool Blanco				Formation Mesa Verde				Unit	
Completion Date 6-13-78		Total Depth 5102'		Plug Back TD 5040'		Elevation 5935' GR		Farm or Lease Name Nye	
Gr. Size 7.000	Wt. 20#	d 6.456	Set At 2765'	Perforations: From 4574' To 4984'		Well No. 16A			
4.500	10.5#	d 4.052	Set At 2600 5097'	Perforations: From To		Unit Sec. Twp. Rge. C 12 30N 11W			
Tbg. Size 2375	Wt. 4.7	d 1.995	Set At 4888'	From To					
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At		County San Juan	
Producing Thru Tbg.		Reservoir Temp. °F θ		Mean Annual Temp. °F		Baro. Press. - P _a 12.2		State New Mexico	
L	H	Gg .700	% CO ₂	% N ₂	% H ₂ S	Provor		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							975		970	
1.	2" X 3/4"						357		851	1 hr.
2.							359		800	2 hrs.
3.							345		772	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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		357.2	1.0000	.9258	1.0000	4,089
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

NO.	P _f	P _w	P _w ²	P _f ² - P _w ²
1		784.2	614,970	359,594
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 2.7102$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 8637$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.1123$$

Absolute Open Flow <u>8637</u> Mcfd @ 15.025		Angle of Slope θ _____		Slope, μ _____ 75	
Remarks: <u>Flowing H₂O mist</u>					
Approved By Commission:		Conducted By: Abe Saiz		Calculated By: James Smith	
				Checked By:	