

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☒ Special		Test Date 4/13/85	
Company Amoco Production Co.		Connection Northwest Pipeline Corp.	
Pool Undes		Formation Gallup	
Completion Date 2/2/85		Total Depth 8023	Plug Back TD 7970
		Elevation 6179GR	Farm or Lease Name Rosa Unit
Csg. Size 4.500	Wt. 11.6	d 4.000	Set At 8023
Perforations: From 6736 To 7150		Well No. 107	
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At 7210
Perforations: From Sliding To Sleeve		Unit Sec. Twp. Rge. K 4 31 5	
Type Well - Single - Brodenhead - G.C. or G.O. Multiple Commingle		Packer Set At 7213	County Rio Arriba
Producing Thru tubing	Reservoir Temp. °F #	Mean Annual Temp. °F	Baro. Press. - P _a New Mexico
L	H	G _g	% 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	62 days						2850		2902	
1.	2.375		.750				205		985	
2.										
3.										
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		217	1.000	.9258	1.026	2549
2.							
3.							
4.							
5.							

NO.	P _r	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	XXXXXXX
3.					Specific Gravity Flowing Fluid	DIST. 3
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

P _c 2914 P _c ² 8491396					APR 30 1985	
NO.	P _i ²	P _w	P _r ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1326$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0979$
1		997	994009	7497387		
2						
3						
4						
5						

Absolute Open Flow 2798 Mcfd @ 15.025			Angle of Slope θ		Slope, n .75
Remarks: Heavy spray H2O thru test delay on test due to muddy road conditions					
Approved By Division		Conducted By: B&R Services		Calculated By: J.J. Barnett	
				Checked By:	