

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☒ Special		Test Date 5-22-85		Flac	
Company Amoco Production Co.		Connection Northwest Pipeline		846200-01-2	
Pool undes.		Formation Gallup		Unit	
Completion Date 11-6-84		Total Length 8981		Plug Back TD 8730	
				Elevation 6971GR	
Casing Size 4.500		Set At 11.6		Perforations: From 7605 To 7994	
Triq. Size 2.375		Set At 4.7		Perforations: From sliding To sleeve	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple		Packer Set At 8376		Farm or Lease Name Rosa Unit	
Commingled				Well No. 103	
Producing Thru tubing		Reservoir Temp. °F 6		Mean Annual Temp. °F	
Baro. Press. - P _a				Unit Sec. Twp. Rge. G 10 31 4	
L		H		County Rio Arriba	
Gg		% CO ₂		State New Mexico	
% 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	7 days						0		2652		3 hrs
1.	2375		.750				0		210		
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		222	1.000	.9258	1.027	2610
2.							
3.							
4.							
5.							

NO.	R ₁	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.L. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure P.S.I.A.	Critical Temperature °R
1										
2.										
3.										
4.										
5.										

P _c 2664	P _w 230	P _w ² 52900	P _c ² - P _w ² 7043996	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0075$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0056$
NO.	P _c	P _w	P _w ²	P _c ² - P _w ²	
1		230	52900	7043996	
2					
3					
4					
5					

Absolute Open Flow 2625 Mcfd @ 15.025 Angle of Slope 0 Slope, n .75

Remarks: flowed med. H2O Annular flow

Approved By Division	Conducted By: B&R Services	Calculated By: J.J. Barnett	Checked By:
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