

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☒ Special				Test Date 5-23-85		Flac	
Company Amoco Production Co.				Connection Not dedicated		846391-01-9	
Pool Otero				Formation Chacra		Unit	
Completion Date 5-4-85		Total Depth 3100		Plug Back TD 3057		Elevation 5752GR	
Farm or Lease Name Kutz Fed G.C. "A"				Well No. 1			
Casing Size 4.500	Wt. 10.5	d 4.052	Set At 3100	Perforations: From 2888 To 3004		Unit Sec. Twp. Rge. M 8 28 10	
Tub. Size 2.375	Wt. 4.7	d 1.995	Set At 2885	Perforations: From open To ended			
Type Well - Single - Blindhead - G.C. or G.O. Multiple Single				Packer Set At None		County San Juan	
Producing Thru tubing		Reservoir Temp. °F 6		Mean Annual Temp. °F		State New Mexico	
L	R	Cq	% CO ₂	% N ₂	% H ₂ S	Prover	Water 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	20 days						980		990		
1.	2.375		.750				287		528		3 hrs
2.											
3.											
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 _{sp}	Rate of Flow Q, Mhd
1	12.365		299	1.000	.9258	1.030	3525
2.							
3.							
4.							
5.							

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

NO.	P ₁	P ₂	P ₁ ²	P ₂ ²	P ₁ ² - P ₂ ²	(1) $\frac{P_1^2}{P_2^2 - P_1^2} =$	(2) $\left[\frac{P_1^2}{P_2^2 - P_1^2} \right]^n =$
1		540	291600	712404		1.4093	1.2935
2.							
3.							
4.							
5.							

Absolute Open Flow		4560	Factor = 15.625	Angle of Slope °	Slope, n = 75
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Remarks: flared, lite H2O, lite condensate
TRUE

Approved By: Division	Conducted By: Bryan Services	Calculated By: J.J. Barnett	Checked By:
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