

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☒ Special				Test Date 3/20/85	
Company Amoco Production Co.				Connection El Paso Natural Gas co.	
Pool Otero				Formation Chacara	
Completion Date 3/11/85		Total Depth 3109		Plug Back TD 3068	
				Elevation 5490 GL	
Farm or Lease Name Sanchez Gas Com "D"					
Csq. Size 4.500	Wt. 10.5	d 4.052	Set At 3109	Perforations: From 2798 To 2906	
Thq. Size 2.375	Wt. 4.6	d 1.995	Set At 2942	Perforations: From open To ended	
Well No. 1					
Type Well - Single - Broadhead - G.G. or G.O. Multiple single				Packer Set At none	
County San Juan					
Producing Thru tubing		Reservoir Temp. °F θ		Mean Annual Temp. °F	
				Baro. Press. - P _g	
State 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.	
S4	7 days						672		1014	
1.	2.375	.750					41		294	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 _{pv}	Rate of Flow Q, Mcfd
1	12.365		53	1.000	.9258	1.004	609
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/E.L.
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 _r 1026	P _w 1052676		
NO.	P _r	P _w	P _r - P _w
1	306	93636	959040
2.			
3.			
4.			
5.			

$$AOF = Q \left[\frac{P_r^2}{P_e^2 - P_w^2} \right]^n = 653$$

$$(1) \frac{P_r^2}{P_e^2 - P_w^2} = 1.0371 \quad \left[\frac{P_r^2}{P_e^2 - P_w^2} \right]^n = 1.0371$$

Absolute Open Flow 653	Mcf @ 15.025	Angle of Slope θ _____	Slope, n .75
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Remarks: Lite spray H2O, not flared

Approved By Division	Conducted By: Joe Elledge	Calculated By: JJ Barnett	Checked By: [Signature]
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