

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 Chacra	
Completion Date 3/11/85	Total Depth 3100	Plug Back TD 5568 GL	Elevation 3057
Farm or Lease Name Saiz Gas Com "A"		Well No. 1	
Csg. Size 4.500	Wt. 10.5	d 4.052	Set At 3100
Perforations: From 2862 To 2966		Well No. 1	
Tub. Size 2.375	Wt. 4.7	d 1.995	Set At 2985
Perforations: From open To ended		Unit DF	Sec. Twp. Rge. 14 29 11
Type Well - Single - Blindhead - 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 _a
State New Mexico			
L	H	Gg	% 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.		Temp. °F
SI	7 days						948		1017		
1.	2.375	.750					74		235		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		8.6	1.000	.9258	1.007	991
2.							
3.							
4.							
5.							

NO.	R _f	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 _____ 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 _i 1029 P _w ² 1058841			
NO.	P _i	P _w	P _i ² - P _w ²
1	247	61008	997833
2.			
3.			
4.			
5.			

$$(1) \frac{P_i^2}{P_i^2 - P_w^2} = 1.0611$$

$$AOF = Q \left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 1036$$

$$(2) \left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 1.0455$$

Absolute Open Flow _____ 1036 _____ Mcfd @ 15.025	Angle of Slope θ _____	Slope, n _____ .75
Remarks: Lite mist H2O, not flaxed		

Approved by Division	Conducted By: Joe Elledge	Calculated By: JJ Barnett	Checked By: 8
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