

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 12-1-80			
Company El Paso Natural Gas Company				Connection					
Pool Tapacito				Formation Pictured Cliff				Unit	
Completion Date 11-13-80		Total Depth 6686		Plug Back TD 6668		Elevation 7138 GR		Farm or Lease Name San Juan 27-4 Unit	
Csg. Size 7.000	Wt. 20	d 6.456	Set At 4409	Perforations: From 3966 To 4090				Well No. #99A (PC)	
Thq. Size 1.660	Wt. 2.4	d 1.380	Set At 4048	Perforations: From To				Unit Sec. Twp. Rge. C 16 27 4	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Dual				Packer Set At 4276		County Rio Arriba			
Producing Thru Csg.		Reservoir Temp. °F P		Mean Annual Temp. °F		Baro. Press. - P _a 12		State New Mexico	
L	H	G _g .670	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 4"	Taps Flange	

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							1040		1040		18 Days
1.	4 X 2.500			70	60	50	217		196		3 Hours
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	32.64	70.14	82	1.010	1.222	1.010	2854
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	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

$P_c = 1052$ $P_c^2 = 1106704$				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		200	52441	1054263
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{1106704}{1054263}$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0421$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2974$$

Absolute Open Flow	2974	Mcf/d @ 15.025	Angle of Slope θ	Slope, n = .85
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Remarks: Test Gas Vented - 376 MCF

Approved By Division	Conducted By: Roger Hardy	Calculated By: L. E. Mabe	Checked By:
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