

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 11-25-80				
Company El Paso Natural Gas Company				Connection Northwest Pipeline Corp.					
Pool Tapacito - Ext				Formation Pictured Cliff				Unit San Juan 27-4	
Completion Date 10-28-80		Total Depth 6486'		Plug Back TD 6468'		Elevation 7013 GR		Farm or Lease Name San Juan 27-4 Unit	
Csq. Size 7.0"	Wt. 20.0	d 6.456"	Set At 4174'	Perforations: From 3873 To 3947			Well No. #15A		
Thq. Size 1.660	Wt. 2.33	d 1.380"	Set At 3921	Perforations: From To			Unit I	Sec. 6	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. Dual				Packer Set At 4029		County Rio Arriba			
Producing Thru Csg.		Reservoir Temp. °F P		Mean Annual Temp. °F		Baro. Press. - P _g 12		State New Mexico	
L	H	C _g 0.670	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 4"	Taps Flg	

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							1070		1070		28 Days
1.	4"		2.750	4	1.5	44	41		20		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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	129.96	1.90	16	1.0158	1.222	1.000	307
2.							
3.							
4.							
5.							

NO.	P _r	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 _c 1082 P _c ² 1170724				
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1		53	2809	1167915
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0024$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 308$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0020$

Absolute Open Flow _____ 308 _____ Mcfd @ 15.025	Angle of Slope θ _____	Slope, n _____ 0.85
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Remarks: _____ Gas Vented - 93 MCF and No Liquids Produced During The Test _____

Approved By Division	Conducted By: Roger Hardy	Calculated By: H. E. McAnally	Checked By:
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