

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 11-18-80				
Company El Paso Natural Gas Company				Connection Northwest Pipeline					
Pool Blanco				Formation Mesa Verde				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 5559 To 6440			Well No. #15A		
Tbg. Size 2.375	Wt. 4.7#	d 1.995	Set At 6382	Perforations: From To			Unit Sec. Twp. Rgs. I 6 27 4		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Dual					Packer Set At 4029		County Rio Arriba		
Producing Thru Tbg.		Reservoir Temp. °F p		Mean Annual Temp. °F		Baro. Press. - P _a 12		State New Mexico	
L	H	C _q 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							1050				21 Days
1.	4" X 2.750"			110	3.8	50	268				3 Hr.
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	13.27	122	1.010	1.222	1.013	2156
2.							
3.							
4.							
5.							

NO.	P _t	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 1062	P _c ² 1,127,844	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2005$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1469$
NO. P _t ²	P _w	P _c ²	P _c ² - P _w ²
1 78,400	434	188,356	939,488
2			
3			
4			
5			

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2473$

Absolute Open Flow 2473 Mcfd @ 15.025		Angle of Slope θ _____	Slope, n 0.75
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Remarks: * 4½" Liner - 4022 to 6468'
Liquids - 2.2 Bbls Oil, Gas Vented - 400 MCF

Approved By Division	Conducted By: Roger Hardy	Calculated By: Bill Clark	Checked By:
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