

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 5-12-82	
Company Curtis J. Little				Connection El Paso Natural Gas Co.		
Pool So. Blanco				Formation Pictured Cliff		
Completion Date 5-4-1982		Total Depth 2360		Plug Back TD 2341		Elevation 6173 G.L.
Csg. Size 2.875		Wt. 6.5		Perforations: From 2217 To 2258		Well No. 1
Trg. Size Slim Hole		Wt. 6.5		Perforations: From To		Unit Sec. Twp. Rge. K 22 26 7
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Single					Packer Set At None	
Producing Thru Casing		Reservoir Temp. °F P		Mean Annual Temp. °F		Baro. Press. - P _a 12 psia
L		H		Prover		State New Mexico
Cg		% CO ₂		% N ₂		% H ₂ S
.050						

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
1	8 days								581		
1.	2 inch		.750	95					95	60°	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 Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of flow Q, Mcf/d
1	12.3650		107	.000	.9608	1.007	1280
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure P.S.I.A.	Critical Temperature °R
1										
2.										
3.										
4.										
5.										

NO.	P _r ²	P _w ²	P _w ²	P _c ² - P _w ²
1	593	2351649	129	16749
2.				
3.				
4.				
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0500$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1334$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.04235$

Absolute Open Flow 1334		Mold @ 15.025	Angle of Slope θ	Slope, n 85
Remarks: Completely dry gas.				
Approved By Division	Conducted By: Brent Elledge	Calculated By: Joe Elledge	Checked By: Curtis J. Little	