

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 5-31-85	
Company Curtis J. Little		Connection El Paso Natural Gas Company	
Pool Ballard		Formation Pictured Cliff	
Completion Date 5-24-85	Total Depth 2368'	Plug Back TD 2354'	Elevation 6190 G.L.
Farm or Lease Name STATE COM		Well No. #1	
Csq. Size 2 7/8	Wt. 6.4	d 2.441	Set At 2359
Perforations: From 2204 To 2260		Unit P 2 26 8	
Thq. Size NONE	Wt. NONE	d NONE	Set At NONE
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At NONE	
Producing Thru Csg.		Baro. Press. - P _g 12 psia	
Reservoir Temp. °F 8		Mean Annual Temp. °F 12	
L	H	G _g .650	% 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								812		
1.	2 inch		.750						40	60°	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	12.3650		52	1.000	.9608	1.0012	619
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 824	P _c ² 678976	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0057$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.00487$	
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1		62	3873	675103
2				
3		CALCULATED		
4				
5				

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 622$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 622$

Absolute Open Flow 622	Mcfd @ 15.025	Angle of Slope θ _____	Slope, n .85
------------------------	---------------	------------------------	--------------

Remarks: Completely dry gas.

Approved By Division	Conducted By: Joe Elledge	Calculated By: Joe Elledge	Checked By: Curtis J. Little
----------------------	------------------------------	-------------------------------	---------------------------------