

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 8-27-82	
Company William B. Martin & Assoc.				Connection El Paso Natural Gas Co.			
Pool Ballard				Formation Pictured Cliff		Unit	
Completion Date 8-19-82		Total Depth 2640		Plug Back TD 2602		Elevation 6884 G.L.	
Ceq. Size 2.875		WI. 6.5		Set At 2640		Perforations: From 2495 To 2516	
Thq. Size 1.000		WI. .667		Set At 2450		Perforations: From open To Ended	
Type Well - Single - Brodenhead - G.G. or G.O. Multiple Single						Packer Set At None	
Producing Thru Tubing		Reservoir Temp. °F P		Mean Annual Temp. °F		Baro. Press. - P _g .12 psia	
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.	
SI	8 days						421		456	
1.	2 inch	.750	4				4		179	
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		16	1.000	.9608	1.000	190
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	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

NO.	P _i ²	P _w ²	P _e ²	P _e ² - P _w ²
1		191	36481	182543
2				
3				
4				
5				

$P_c = 468$ $P_c^2 = 219024$

(1) $\frac{P_c^2}{P_e^2 - P_w^2} = 1.1998$ (2) $\left[\frac{P_c^2}{P_e^2 - P_w^2} \right]^n = 1.1675$

AOF = Q $\left[\frac{P_c^2}{P_e^2 - P_w^2} \right]^n = 221$

Absolute Open Flow <u>221</u> Mcfd @ 15.025	Angle of Slope Θ _____	Slope, n <u>.85</u>
---	-------------------------------	---------------------

Remarks: _____

Approved By Division _____	Conducted By: <u>Joe Elledge</u>	Calculated By: <u>Joe Elledge</u>	Checked By: <u>Billy Martin</u>
----------------------------	----------------------------------	-----------------------------------	---------------------------------