

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Type Test ☒ Initial ☐ Annual ☒ Special				Test Date 4-20-82	
Company Amoco Production Company				Connection El Paso Natural Gas Company	
Pool Fulcher Kutz				Formation Pictured Cliffs	
Completion Date 4-7-82		Total Depth 6505		Plug Back TD 6459	
Elevation 5892 GL		Farm or Lease Name Martin Gas Com "B"			
Csg. Size 5.500		Well No. 1E		Well No.	
Trq. Size 1.660		Well No. 1E		Unit Soc. Twp. Rge. P 31 28N 10W	
Type Well - Single - Bradenhead - G.G. or C.O. Multiple Dual				Packer Set At 1950 ft	
Producing Thru Tubing		Reservoir Temp. °F		Mean Annual Temp. °F	
Baro. Press. - P _a		State New Mexico			
L H		Gg		% 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	7 Days						162		162	
1.	2.375		.750				20		104	
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	12.365		32	1.000	.9608	1.002	381
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.							XXXXXX			
2.							XXXXX			
3.										
4.										
5.										

NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²
1		116	13456	16820
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.8000$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 641$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.6823$

Absolute Open Flow 641 Mcfd @ 15.025		Angle of Slope θ		Slope, n .85	
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Remarks: Perf sub set at 1869

Approved By Division	Conducted By: I. I. Barnett	Calculated By: J. J. Barnett	Checked By:
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