

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☒ Special		Test Date 5-14-80	
Company Amoco Production Company		Connection El Paso Natural Gas Company	
Pool Basin		Formation Dakota	
Completion Date 5-3-80	Total Depth 6564'	Plug Back TD 6440'	Elevation 5506' GL
Form or Lease Name Armenta Gas Com "C"		Well No. 1E	
Coq. Size 4.500	Wt. 11.6	d 4.000	Set At 6564'
Perforations From 6300' To 6490'		Well No. 1E	
Trq. Size 2.375	Wt. 4.7	d 1.995	Set At 6412'
Perforations From Open To Ended		Unit Sec. Twp. Rge. C 27 29N 10W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At None	
County San Juan		State New Mexico	
Producing Thru tubing		Reservoir Temp. °F P	
Mean Annual Temp. °F		Baro. Press. - P _a	
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.	Temp. °F	
SI	10 days						1176		1305		3 hrs
1.	2.375		.750				24		134		
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		36	1.000	.9258	1.006	415
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	Critical Temperature
1.										
2.										
3.										
4.										
5.										

NO.	P _r ²	P _w ²	P _r ²	P _w ²	P _r ² - P _w ²
1		146	21316	1713173	
2					
3					
4					
5					

(1) $\frac{P_r^2}{P_w^2 - P_r^2} = 1.0124$

AOF = Q $\left[\frac{P_r^2}{P_w^2 - P_r^2} \right]^n = 419$

(2) $\left[\frac{P_r^2}{P_w^2 - P_r^2} \right]^n = 1.0093$

Absolute Open Flow	419	Mcf @ 15.025	Angle of Slope	
Remarks:				

Approved by Division	Conducted By JJB	Calculated By JJ Barnett	Checked By LNE
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