

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☒ Special				Test Date 4-19-82			
Company Amoco Production Company				Connection El Paso Natural Gas Company			
Pool Basin				Formation Dakota		Unit	
Completion Date 3-20-82		Total Depth 6700		Plug Back TD 6680		Elevation 5837 GL	
Form or Lease Name Pan Am Fed. G. C. "B"				Well No. 1E			
Csq. Size 4.500	Wt. 10.5	d 4.052	Set At 6700	Perforations: From 6600 To 6624		Unit 1E	
Tsq. Size 2.375	Wt. 4.7	d 1.995	Set At 6632	Perforations: From open To ended		Unit G 31 30N 11W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F p		Mean Annual Temp. °F		Baro. Press. - P _a	
State New Mexico							
L	H	G _q	% 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						1260		1520		
1.	2.375		.750				66		247		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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		78	1.000	.9258	1.009	901
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas-Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2.					Specific Gravity of Gas	XXXXXXX
3.					Specific Gravity of Flowing Fluid	XXXXX
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

P _c 1532	P _c ² 2347024		
NO.	P _i ²	P _w	P _w ²
1		259	67081
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0294$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 920$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0220$

Absolute Open Flow	920	Mcf/d @ 15.025	Angle of Slope θ	Slope, n .75
Remarks:				

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