

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☒ Special		Test Date 12-13-84		JAN 28 1985	
Company Amoco Production Co.		Connection El Paso Natural Gas Co.		OIL CON. DIV.	
Pool Basin		Formation Dakota		Unit DIST. 3	
Completion Date 12-4-84		Total Depth 6395		Plug Back TD 6300	
Elevation 6027 GR		Farm or Lease Name Federal Gas Com "J"		Well No. 1E	
Coq. Size 4.500	Wt. 10.5	d 4052	Set At 6395	Perforations: From 6172 To 6278	Unit D
Thq. Size 2.375	Wt. 4.7	d 1995	Set At 6245	Perforations: From open To ended	Sec. 24
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None	Twp. 27
Producing Thru Tubing				Baro. Press. - P _a	R _{1/2} 12
Reservoir Temp. °F #				County San Juan	State New Mexico
L	H	G _g	% 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						1800		1800		
1.	2.375		.750				180		512		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 Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		192	1.000	.9258	1.022	2246
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.										

P _c 1812	P _c ² 3283344	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0913$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0677$
NO.	P _w	P _w ²	P _c ² - P _w ²
1	524	274576	3008768
2			
3			
4			
5			

Absolute Open Flow 2398		Mcf/d @ 15.025		Angle of Slope θ		Slope, n .75	
Remarks: flared, med. oil lite H2O							
Approved By Division		Conducted By: J. J. Barnett		Calculated By: J. J. Barnett		Checked By: 	