

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☒ Special						Test Date 5-21-85		Flac	
Company Amoco Production Co.				Connection El Paso Natural Gas Co.				846405-01-7	
Pool Basin				Formation Dakota				Unit	
Completion Date 5-1-85		Total Depth 6239		Plug Back TD 6196		Elevation 5778 GR		Farm or Lease Name Gallegos Canyon Unit	
Csq. Size 7.000	Wt. 23	d 6.366	Set At 6239	Perforations: From 6042 To 6148		Well No. 233 E			
Thg. Size 2.375	Wt. 4.7	d 6130	Set At	Perforations: From Open To Ended		Unit J	Sec. 27	Twp. 28	Rye. 12
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At None		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F θ		Mean Annual Temp. °F		Baro. Press. - P _g		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						729		730	
1.	2.375	.750					219		500	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		231	1.000	.9258	1.027	2716
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 Separator Gas _____
3.					Specific Gravity Flowing Fluid _____
4.					Critical Pressure _____ P.S.I.A.
5.					Critical Temperature _____ R

P _c 742 P _c ² 550564				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		512	262144	288420
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.9089$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4411$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.6240$

Absolute Open Flow	4411	Mcf/d @ 15.025	Angle of Slope θ	Slope, n .75
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Remarks: Flared, lite oil, lite H₂O

Approved By Division	Conducted By: Joe Elledge	Calculated By: J. J. Barnett	Checked By: 82
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