

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL 5-3-85

Type Test ☒ Initial ☐ Annual ☒ Special				Test Date 5-9-85		Flac	
Company Amoco Production Co.				Connection El Paso Natural Gas Co.		846399-01-2	
Pool Basin				Formation Dakota		Unit	
Completion Date 5-3-85		Total Depth 6914		Plug Back TD 6868		Elevation 5832 GR	
Csg. Size 4.500		Wt. 11.6		Set At 4.000		Perforations: From 6676 To 6900	
Thq. Size 2.375		Wt. 4.7		Set At 1.995		Perforations: From Open To ended	
Type Well - Single - Bradenhead - G.G. or C.O. Multiple Single				Packer Set At None		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a NM	
L		H		Cg		% 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						1865		1895	
1.	2.375		.750				410		1105	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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.365		422	1.000	.9258	1.052	5082
2.							
3.							
4.							
5.							

NO.	R	T	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 _i ²	P _w	P _w ²	P _i ² - P _w ²	(1) $\frac{P_c^2}{P_i^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_i^2 - P_w^2} \right]^n =$
1		1117	1247689	2388960	1.5223	1.3705
2						
3						
4						
5						

Absolute Open Flow 6965 Mcfd @ 15.025				Angle of Slope θ		Slope, n .75	
Remarks: flared, lite condensate, lite H ₂ O							
Approved By: Division		Conducted By: Bryan Services		Calculated By: J. J. Barnett		Checked By:	