

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 06 30 80	
Company AMOCO PRODUCTION CO.				Connection ELPASO NATURAL GAS CO.		
Pool BASIN.				Formation DAKOTA		Unit
Completion Date 06 10 80		Total Depth 6733		Plug Back TD 6688		Elevation 6144
Form or Lease Name RB SULLIVAN						
Ceq. Size 4.500	Wt. 11.6	d 4.000	Set At 6733	Perforations: From 6502 To 6625		Well No. 3E
Tiq. Size 2.875	Wt. 6.5	d 2.441	Set At 6636	Perforations: From open To ended		Unit Sec. Twp. Rge. D 11 27 10
Type Well - Single - Brodenhead - G.C. or C.O. Multiple SINGLE				Packer Set At NONE		County SAN JUAN
Producing Thru TUBING		Reservoir Temp. *F 8		Mean Annual Temp. *F		State NEW MEXICO
L	H	Gg .70	% 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	9 days						562		1359	
1.	2.375	.750					100	60	498	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		112	1.000	.9258	1.012	1298
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 1371	P _c ² 1879641		
NO.	P _i ²	P _w	P _w ²
1		510	260100
2.			
3.			
4.			
5.			

(1) $\frac{P_c^2}{P_w^2 - P_w^2} = \underline{1.1606}$

AOF = Q $\left[\frac{P_c^2}{P_w^2 - P_w^2} \right]^n = \underline{1451}$

(2) $\left[\frac{P_c^2}{P_w^2 - P_w^2} \right]^n = \underline{1.1182}$

Absolute Open Flow 1451	Mcf @ 15.025	Angle of Slope θ	Slope, n .75
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Remarks:

Approved By Division	Conducted By JJB	Calculated By J J BARNETT	Checked By R A DOLNEY
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