

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test				Test Date			
☒ Initial ☐ Annual ☒ Special				12-7-85			
Company Amoco Production Co.				Connection El Paso Natural Gas Company			
Pool Basin				Formation Dakota			
Completion Date 11-28-85		Total Depth 7169'		Plug Back TD 7152'		Elevation 5925' GL	
Farm or Lease Name A.L. Elliott "D"							
Coq. Size 4.500	Wt. 11.6	d 4.000	Set At 7169'	Perforations: From 6862' To 7144'		Well No. 9E	
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At 7109'	Perforations: From open To ended		Unit Soc. Twp. Rge. J 11 29 9	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single				Packer Set At None		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F #		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	9 days						650		1760		
1.	2.375		.756				160		580		3 hours
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		172	1.000	.9258	1.020	2008
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	DEC 20 1985
2.					Specific Gravity Separator Gas	OIL CON. DIV. XXXXXXXXXX
3.					Specific Gravity Flowing Fluid	DIST. 3 XXXXXXXXXX
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

P _c 1772 P _c ² 3139984				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		592	350464	2789520
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.1256$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2194$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0928$$

Absolute Open Flow	2194	Mcf @ 15.025	Angle of Slope @	Slope, n .75
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Remarks:	Flared, Lite Condensate, Medium H ₂ O
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Approved By Division	Conducted By: Bryan Services	Calculated By: J.J. Barnett	Checked By: QB
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