

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

12-31-85

Type Test ☒ Initial ☐ Annual ☒ Special		Test Date 1-18-86	
Company Amoco Production Co.		Connection El Paso	
Pool Basin		Formation Dakota	
Completion Date 12-31-85		Total Depth 7259	
Plug Back TD 7250		Elevation 5902GL	
Farm or Lease Name E.E. Elliot "B"		Well No. 9E	
Coq. Size 4.500	Wt. 11.6	d 4.000	Set At 7259
Perforations: From 6990 To 7230		Unit F	
Trq. Size 2.375	Wt. 4.7	d 1.995	Set At 7221
Perforations: From OPEN To ENDED		Sec. 26	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple single		Fucker Set At none	
Producing Thru tubing		County San Juan	
Reservoir Temp. °F p		State New Mexico	
Mean Annual Temp. °F		Baro. Press. - P _o	
L	H	Cq	% 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	8 days						1465		1547		
1.	2.375		.750				121		427		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, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		133	1.000	.9258	1.015	1545
2.							
3.							
4.							
5.							

NO.	P _o	Temp. °R	T _g	Z	Gas-Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbon	Specific Gravity Separator Gas	Specific Gravity Flooding Fluid	Critical Pressure	Critical Temperature
1										
2.										
3.										
4.										
5.										

NO.	P _o	P _w	P _o ²	P _w ²	P _o ² - P _w ²
1	1559	2430481			
2.					
3.					
4.					
5.					

$$(1) \frac{P_o^2}{P_o^2 - P_w^2} = 1.0861$$

$$(2) \left[\frac{P_o^2}{P_o^2 - P_w^2} \right]^n = 1.0539$$

$$AOF = Q \left[\frac{P_o^2}{P_o^2 - P_w^2} \right]^n = 1644$$

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App. Rate Open Flow	1644	Flow at 15.025	Angle of Slope	Slope, n	.75
Flared, Lite H ₂ O, Lite condensate					

Reviewed by Division	Conducted by	Conducted by	Checked by
	Reynolds	J.D. Bennett	