

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☒ Special		Test Date 2-12-85	
Company Amoco Production Co.		Connection NWPL	
Pool undes.		Formation Gallup	
Completion Date 12-6-84	Total Depth 8299	Plug Back TD 8200	Elevation 6474 GR
Farm or Lease Name Rosa Unit		Well No. 117	
Csq. Size 4.500	Wt. 11.6	d 4.000	Set At 8299
Perforations: From 6790 To 7390		Well No. 117	
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 7458
Perforations: From sliding To sleeve		Unit Sec. Twp. Rge. D 33 32 6	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple commingle		Packer Set At 7494	
Producing Thru tubing		County Rio Arriba	
Reservoir Temp. °F		State New Mexico	
Mean Annual Temp. °F		Baro. Press. - P _g	
L	H	G _g	% 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	64 days						2208		2208		3hrs
1.	2.375		.750				168		702		
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		180	1.000	.9258	1.021	2104
2.							
3.							
4.							
5.							

NO.	P _t	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 2220	P _c ² 4928400	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1154$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0853$
NO. 1	P _t ² 714	P _w ² 509796	P _c ² - P _w ² 4418604
2			
3			
4			
5			

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2284$$

Absolute Open Flow 2284 Mcfd @ 15.025 Angle of Slope 75

Remarks: lite spray h2o
delay due to muddy roads

Approved By Division	Conducted By: B&R Services	Calculated By: JJ Barnett	Checked By: ft
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