

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☒ Special		Test Date 10-29-84	
Company Amoco Production Co.		Connection Not dedicated (NWPL)	
Pool Unders. 110		Formation Gallup	
Completion Date 10-1-84	Total Depth 8141	Plug Back TD 8096	Elevation 6436GR
Farm or Lease Name Rosa Unit		Well No. 99Y	
Csq. Size 4.500	Wt. 11.6	d 4.000	Set At 8141
Perforations: From 6887 To 7270		Well No. 99Y	
Trq. Size 2.375	Wt. 4.7	d 1.995	Set At 7280
Perforations: From sliding To sleeve		Unit Sec. Twp. Rge. N 26 31 6	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Commingle		Packer Set At 7350	
Producing Thru tubing		Baro. Press. - P _a	
State New Mexico			
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	24 days						2545	2565	→		
1.	2.375		.750				72	456	→		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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		84	1.000	.9258	1.008	969
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 2577	P _c ² 6640929				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0341$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0255$
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 994$	
1		468	219024	6421905		
2						
3						
4						
5						

Absolute Open Flow 994	Mcfd @ 15.025	Angle of Slope @	Slope, n .75
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Remarks: flared, Med H₂O

Approved By Division	Conducted By: J. Barnett	Calculated By: J. Barnett	Checked By:
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