

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☒ Special		Test Date 7-24-81	
Company Amoco Production Company		Connection El Paso Natural Gas Company	
Pool B S Mesa		Formation Gallup	
Completion Date 4-5-81		Total Depth 8306	Plug Back TD 8250
		Elevation 7163	Farm or Lease Name Jicarilla Apache 102
Csq. Size 4.500	Wt. 10.5	d 4.052	Set At 8306
Perforations: From 7234 To 7700		Well No. 12E	
Trq. Size 2.375	Wt. 4.7	d 1.995	Set At 8227
Perforations: From 7974 To		Unit Sec. Twp. Rge. 0 9 26N 4W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Commingled		Packer Set At 7980	County Rio Arriba
Producing Thru Casing		Reservoir Temp. °F #	Mean Annual Temp. °F
Baro. Press. - P _a		State New Mexico	
L	H	G _g	% CO ₂
		% N ₂	% H ₂ S
Prover		Meter Run	Taps
FLOW DATA			
NO.	Prover Line Size	X	Orifice Size
	Press. p.s.i.g.	Diff. h _w	Temp. °F
SI	109 Days		
1.	2.375	.750	
2.			
3.			
4.			
5.			
TUBING DATA			
	Press. p.s.i.g.	Temp. °F	
CASING DATA			
	Press. p.s.i.g.	Temp. °F	
Duration of Flow 3 hrs.			
RATE OF FLOW CALCULATIONS			
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m
			Flow Temp. Factor Ft.
			Gravity Factor F _g
			Super Compress. Factor, F _{pv}
			Rate of Flow Q, Mcfd
1	12.365		30
2.			1.000
3.			.9258
4.			1.004
5.			345
NO.	P _r	Temp. °R	T _r
			Z
1.			
2.			
3.			
4.			
5.			
Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.			
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.			
Specific Gravity Separator Gas _____			
Specific Gravity Flowing Fluid _____			
Critical Pressure _____ P.S.I.A.			
Critical Temperature _____ °R			
P _c 573	P _c ² 328329		
NO.	P _r ²	P _w	P _w ²
			P _c ² - P _w ²
1		49	2401
2			325928
3			
4			
5			
(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0074$			
(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0055$			
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 346$			
Absolute Open Flow 346 Mcfd @ 15.025			
Angle of Slope °			
Slope, n .75			
Remarks: Slicing sleeve set @ 7974			
Approved By Division		Conducted By: JJB	Calculated By: J. J. Barnett
		Checked By:	