

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-177
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special					Test Date 4-14-81						
Company El Paso Natural Gas Company				Connection El Paso Natural Gas Company							
Pool Blanco				Formation MESA VERDE				Unit			
Completion Date		Total Length 5438		Plug Back TD 5421		Elevation 6045 GL		Farm or Lease Name Atlantic A			
Coq. Size 7000	Wt. 20	d 6.456	Set At 3128	Perforations: From 4333 To 5297		Well No. #3A (MV)					
Tq. Size 2,375	Wt. 4.7	d 1.995	Set At 5267	Perforations: From To		Unit C 28 31 10					
Type Well - Single - Broadhead - G.G. or G.O. Multiple G. G. Dual					Packer Set At 2940		County San Juan				
Producing Thru Tbg.		Reservoir Temp. °F p		Mean Annual Temp. °F		Base. Press. - P _a 12		State New Mexico			
L	H	G _g 0.650	% 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	Duration of Flow
SI							408				8 Days
1.	Choke		0.750	155		66					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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd				
1	12.365		167	.9943	0.9608	1.015	2002				
2.											
3.											
4.											
5.											
NO.	P ₁	Temp. °R	T ₁	Z	Gas Liquid Hydrocarbon Ratio		Mcf, bbl.				
1					A.P.I. Gravity of Liquid Hydrocarbon		Deg.				
2.					Specific Gravity Separator Gas		XXXXXXXXXX				
3.					Specific Gravity Flowing Gas		XXXXXXXXXX				
4.					Critical Pressure		P.S.I.A.				
5.					Critical Temperature		R				
P ₁	420	P ₂	176400								
NO.	P ₁	P ₂	P ₁ ² - P ₂ ²	(1) $\frac{P_1^2}{P_2^2 - P_1^2} = 2.4924$		(2) $\left[\frac{P_1^2}{P_2^2 - P_1^2} \right]^n = 1.9836$					
1	27889	325	105625	70775							
2											
3											
4											
5											
Absolute Open Flow		3971		Mcf @ 15.025		Angle of Slope		Slope, n			
Remarks: *4 1/2" Liner From 2963 to 5438 Vented 238 MCF Gas During Test											
Approved by Division			Conducted by: Gabe Archibque			Calculated by: R. F. Headrick			Checked by:		

