

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-177
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 6-11-81	
Company El Paso Natural Gas Company				Connection El Paso Natural Gas Company	
Pool So. Blanco				Formation Pictured Cliffs	
Completion Date 5-24-81		Total Depth 3379		Plug Back TD 3373	
				Elevation 7138 Gr	
Csg. Size 4.500		ID 10.5		Set At 3379	
Perforations From 3192		To 3242		Well No. #107	
Req. Size 1.660		ID 2.4		Set At 3223	
Perforations From		To		Unit M 22 24 3	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At	
Producing Thru				County Rio Arriba	
Reservoir Temp. °F p		Mean Annual Temp. °F		Baro. Press. - P _a 12	
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							986		994		7 Days
1.											
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_{in}}$	Pressure P _m	Flow Temp. Factor FL	Gravity Factor Fg	Super Compress. Factor F _{sp}	Rate of Flow Q, Mscf
1							
2							
3							
4							
5							

NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	Mcf, bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons	Req.
2					Specific Gravity Separator Gas	XXXXXXX
3					Specific Gravity Flowing Fluid	XXXXX
4					Critical Pressure	P.S.I.A.
5					Critical Temperature	P.S.I.A.

NO.	P ₁	P ₂	P ₃	P ₄	P ₅	P ₆	P ₇	P ₈	P ₉	P ₁₀
1										
2										
3										
4										
5										

$$(1) \frac{P_c^2}{P_2^2 - P_1^2} = \dots$$

$$AOF = Q \left[\frac{P_2^2}{P_2^2 - P_1^2} \right]^n = \dots$$

$$(2) \left[\frac{P_c^2}{P_2^2 - P_1^2} \right]^n = \dots$$

Absolute Open Flow	Mcf @ 15.025	Angle of Slope	Slope, n
Remarks:			

Approved by Division	Conducted By	Calculated By	Checked By
	T. D. Goodrich	D. E. Headrick	