

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 4-14-81	
Company El Paso Natural Gas Co.		Connection El Paso Natural Gas Company	
Pool Blanco		Formation Mesa Verde	
Completion Date 4-7-81		Total Depth 5600	Plug Back TD 5583
Elevation 6144 GL		Farm or Lease Name Atlantic A	
Csg. Size 7	Wt. 20	d 6.456	Set At 3260
Perforations: From 4405 To 5513		Well No. 9A (MV)	
Tbg. Size 2375	Wt. 4.7	d 1995	Set At 5474
Perforations: From To		Unit C	
Type Well - Single - Broadhead - G.C. or G.O. Multiple G. T. Dual		Packer Set At 3075	County San Juan
Producing Thru Tbg.	Reservoir Temp. °F p	Mean Annual Temp. °F	Baro. 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			
NO.	Prover Line Size	X	Orifice Size
	Press. p.s.i.g.	Diff. h _w	Temp. °F
SI			
1.	Choke	0.750	137
2.			
3.			
4.			
5.			
TUBING DATA			
	Press. p.s.i.g.	Temp. °F	
	389		
CASING DATA			
	Press. p.s.i.g.	Temp. °F	
Duration of Flow			
			7 Days
			3 Hrs.
RATE OF FLOW CALCULATIONS			
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_{in}}$	Pressure P _m
			Flow Temp. Factor F _t
			Gravity Factor F _g
			Super Compress. Factor, F _{pv}
			Rate of Flow Q, Mcf/d
1	12.365		149
2.			9905
3.			0.9608
4.			1.012
5.			1774
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		
	Mcf, bbl. Deg. P.S.I.A. P.S.I.A. R		
1			
2.			
3.			
4.			
5.			
P _c	401	P _c ²	160801
NO.	P _t ²	P _w ²	P _c ² - P _w ²
1	22201	293	85849
2.			74952
3.			
4.			
5.			
(1) $\frac{P_c^2}{P_t^2 - P_w^2} = \frac{2.1454}{1.7727}$			
(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 1.7727$			
AOF = Q $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 3145$			
Absolute Open Flow 3145 Mcf @ 15.025 Angle of Slope @ Slope, n			
Remarks: 4 1/2" Liner From 3099 to 5600 Vented 198 MCF Gas During The Test			
Approved by Division		Conducted by Gabe Archibque	Calculated by R. F. Headrick
		Checked by	