

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE January 31, 1979

Operator El Paso Natural Gas Company		Lease Neil #6A	
Location SE 33-32-11		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5541'	Tubing: Diameter 2 3/8	Set At: Feet 5368'
Pay Zone: From 4359	To 5375	Total Depth: 5541	Shut In 1-20-79
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, -	PSIG	+ 12 = PSIA -	Days Shut-In 11	Shut-In Pressure, Tubing 582	PSIG
				+ 12 = PSIA 594	
Flowing Pressure: P 234	PSIG	+ 12 = PSIA 246		Working Pressure: P _w Calc.	PSIG
				+ 12 = PSIA 488	
Temperature: T = 60 °F	F _t = 1.000	n = .75		F _{pv} (From Tables) 1.024	Gravity .650
					F _g = .9608

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_t \times F_g \times F_{pv}$$

$$Q = 12.365 \times 246 \times 1.000 \times .9608 \times 1.024 = \underline{2993} \text{ MCF/D}$$

$$\text{OPEN FLOW} = A_{of} = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$A_{of} = Q \left(\frac{352836}{114692} \right)^{.75} = (3.0764)(2993) = (2.3229)$$

Note: Well blew a very light fog of water throughout test. Well vented 285 MCF to the atmosphere during test.

$$A_{of} = \underline{6952} \text{ MCF/D}$$

TESTED BY _____

WITNESSED BY _____

C. R. Wagner
Well Test Engineer

