

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 9-18-78

Operator Northwest Production Corp.		Lease Jicarilla 152 W #1 (OWWO)	
Location SW 7-26-5		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 5.500	Set At: Feet 7615'	Tubing: Diameter 1 1/4	Set At: Feet 3119'
Pay Zone: From 3042'	To 3126'	Total Depth: 7615'	Shut In 9-1-78
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, 564	PSIG - 12 = PSIA 576	Days Shut-In 17	Shut-In Pressure, Tubing 562	PSIG - 12 = PSIA 574	
Flowing Pressure: P 4	PSIG - 12 = PSIA 16		Working Pressure: P _w 48	PSIG - 12 = PSIA 60	
Temperature: T = 58 °F	F _t = 1.002	n = 0.85	F _{pv} (From Tables) 1.004	Gravity 0.670	F _g = 0.9463

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

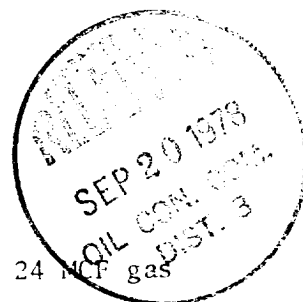
$$Q = (12.365)(16)(1.002)(1.004)(0.9463) = \underline{\quad 188 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{331776}{328176} \right)^n = (188)(1.0110)^{.85} = (188)(1.0093)$$

$$Aof = \underline{\quad 190 \quad} \text{ MCF/D}$$

Note: The well produced 24 MCF gas during the test.



TESTED BY Al Rector

WITNESSED BY _____

[Signature]
Well Test Engineer