

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

Re-test

DATE April 26, 1979

Operator El Paso Natural Gas Company		Lease Riddle B #1-A (MV)	
Location SE 27-30-10		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5302'	Tubing: Diameter 2.375	Set At: Feet 5251'
Pay Zone: From 4148'	To 5264'	Total Depth: 5302'	Shut In 4-18-79
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, --	PSIG	+ 12 = PSIA --	Days Shut-In 8	Shut-In Pressure, Tubing 835	PSIG + 12 = PSIA 847
Flowing Pressure: P 256	PSIG	+ 12 = PSIA 268		Working Pressure: P _w Calc.	PSIG + 12 = PSIA 525
Temperature: T = 68 °F		n = 0.75		F _{pv} (From Tables) 1.028	Gravity 0.680 F_g = 0.9393

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

$$Q = (12.365)(268)(0.9924)(0.9393)(1.028) = \underline{3176} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{717409}{441784} \right)^n = (1.6239)^{.75} = (3176) = (1.4385)(3176)$$

$$Aof = \underline{4569} \text{ MCF/D}$$

Note: The well produced 397 MCF of gas during the test.

TESTED BY Ron Headrick

WITNESSED BY _____

C.R. Wagner
Well Test Engineer

