

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 12-29-69

Operator El Paso Natural Gas Co.		Lease Riddle A No. 1 MV (OWO)	
Location NE 15-30-9		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco Mesa Verde	
Casing: Diameter 4.500	Set At: Feet 5507	Tubing: Diameter 2.375	Set At: Feet 4833
Pay Zone: From 4906	To 5404	Total Depth: 5507	Shut In 12-14-69
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Packer set at 4845	
Shut-In Pressure, Casing, --	PSIG --	+ 12 = PSIA --	Days Shut-In 8	Shut-In Pressure, Tubing 600	PSIG + 12 = PSIA 712
Flowing Pressure: P 100	PSIG --	+ 12 = PSIA 210		Working Pressure: P _w Calc.	PSIG + 12 = PSIA 308
Temperature: T = 69 °F	F _t = .9915	n = .75		F _p (From Tables) 1.020	Gravity .875 F _g = .9427

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

$$Q = (12.365)(210)(.9915)(.9427)(1.020) = 2476 \text{ MCF/D}$$

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

Note: The well produced a medium fog of distillate and water throughout the test.

$$Aof = \left(\frac{505521}{347117} \right)^n = (2476)(1.4563)^{.75} = (2476)(1.3256)$$

$$Aof = 3282 \text{ MCF/D}$$

TESTED BY Harmon E. McAnally

WITNESSED BY _____



[Handwritten signature]