

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE April 13, 1978

Operator El Paso Natural Gas Company		Lease San Juan 32-5 Unit #15-A OWWO	
Location NE 27-32-6		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 3 1/2	Set At: Feet 5897'	Tubing: Diameter 1 1/4	Set At: Feet 5688'
Pay Zone: From 5242	To 5715	Total Depth: 6060'	Shut In 4-7-78
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, 1110	PSIG	+ 12 = PSIA 1122	Days Shut-In 7	Shut-In Pressure, Tubing 1110	PSIG + 12 = PSIA 1122
Flowing Pressure: P 85	PSIG	+ 12 = PSIA 97		Working Pressure: P _w 756	PSIG + 12 = PSIA 768
Temperature: T = 62 °F	F _t = .9981	n = .75		F _{pv} (From Tables) 1.009	Gravity .650 F _g = .9608

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

$$Q = 12.365(97)(.9981)(.9608)(1.009) = \underline{1161} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1258884}{669060} \right)^n = (1.8816)^{.75} (1161) = (1.6065)(1161)$$

$$Aof = \underline{1865} \text{ MCF/D}$$

TESTED BY Wagner- J. Peace

WITNESSED BY _____

Note: Well made heavy fog of water 4 min. after being opened to the atmosphere, then @12 mins. decreased to a light fog for the next 1 hr. & 40 min. & then increased to a heavy fog of water for the rest of the test.

C. R. Wagner
Well Test Engineer

