

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 31, 1978

Operator El Paso Natural Gas Company		Lease San Juan 32-5 Unit #15-A (OWWO)	
Location NE 27-32-06		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 3.500	Set At: Feet 5897'	Tubing: Diameter 1 1/4	Set At: Feet 5688'
Pay Zone: From 5242'	To 5715	Total Depth: 6060'	Shut In 4-13-78
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XXX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 1150	+ 12 = PSIA 1162	Days Shut-In 48	Shut-In Pressure, Tubing PSIG 1049	+ 12 = PSIA 1061	
Flowing Pressure: P PSIG 87	+ 12 = PSIA 99		Working Pressure: P _w PSIG 783	+ 12 = PSIA 795	
Temperature: T = 62 °F	Ft = .9981	n = .75	Fpv (From Tables) 1.009	Gravity .650	Fg = .9608

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

$$Q = 12.365(99)(.9981)(.9608)(1.009) = 1184 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1350244}{718219} \right)^n = (1.8800)^{.75} = (1184) = (1.6055)(1184)$$

Note: Well blew dry gas throughout test.
Well vented 131 MCF to the atmosphere during test.

$$Aof = 1901 \text{ MCF/D}$$

TESTED BY D. Norton

WITNESSED BY

C.R. Haggan
Well Test Engineer

