

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 9-28-73

Operator El Paso Natural Gas Company		Lease Nageezi #3	
Location 800/N, 890/E, Sec. 13 T-25N-R9W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6615'	Tubing: Diameter 2 3/8"	Set At: Feet 6499'
Pay Zone: From 6304	To 6498	Total Depth: 6615	Shut In 9-15-73
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

MR Choke Size, Inches 4"		Orifice 2.500		Orifice 32.64		Choke Constant: C		Well Tested thru 48/64 Choke	
Shut-In Pressure, Casing, PSIG 1908		+ 12 = PSIA 1920		Days Shut-In 13		Shut-In Pressure, Tubing PSIG 828		+ 12 = PSIA 840	
Flowing Pressure: P PSIG WH 106 MR 26		+ 12 = PSIA WH 118 MR 38		Working Pressure: P <sub>w</sub> PSIG 455		+ 12 = PSIA 467			
Temperature: T = 68 °F F <sub>t</sub> = .9924		n = .75		F <sub>pv</sub> (From Tables) 1.004		Gravity .655		F <sub>g</sub> = .9571	

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_i \times F_g \times F_{pv}$$

$$Q = \text{Calculated from meter readings} = 998 \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{3686400}{3468311} \right)^n = 998 (1.0629)^{.75} = 998 (1.0468)$$

$$Aof = 1045 \text{ MCF/D}$$

Note: Well produced 48 bbls. of total liquid with 39 bbls. of 43.8 gravity oil.

TESTED BY B.J.B.

WITNESSED BY



*William D. Welch*  
William D. Welch  
Well Test Engineer