

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE September 9, 1976

| | | | |
|--------------------------------------|-----------------------|--------------------------------|---------------------------|
| Operator Northwest Production | | Lease Jicarilla 119N #10-A | |
| Location NW 7-26N-4W | | County Rio Arriba | State New Mexico |
| Formation Mesa Verde | | Pool Blanco | |
| Casing: Diameter 4 1/2 | Set At: Feet 6343' | Tubing: Diameter 2 3/8" | Set At: Feet 6198' |
| Pay Zone: From 5434 | To 6295 | Total Depth: PBDT 6343 6327 | Shut In 8-29-76 |
| Stimulation Method Sandwater Frac | | Flow Through Casing | Flow Through Tubing XX |

| | | | |
|---------------------------------------|------------------------|-----------------------------|--|
| Meter | | | |
| Choke Size, Inches 4" MR 2.500 | | Choke Constant: C 32.64 | |
| Well Tested thru 3/4" variable choke | | | |
| Shut-In Pressure, Casing, PSIG 955 | + 12 = PSIA 967 | Days Shut-In 7 | Shut-In Pressure, Tubing PSIG 452 |
| Flowing Pressure: P 59 MR 466 WH | | + 12 = PSIA 71 MR 478 WH | Working Pressure: P _w PSIG 137 |
| Temperature: T = 59 °F | F _t = 1.001 | n = .75 | F _{pv} (From Tables) 1.009 |
| | | Gravity .687 | F _g = .9346 |

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

$$Q = \text{Calculated from orifice meter readings} = \underline{1373} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{935089}{912888} \right)^n = 1373(1.0243)^{.75} = 1373(1.0182)$$

$$Aof = \underline{1398} \text{ MCF/D}$$

Note: Well produced 5.15 Bbls water and 4.12 Bbls oil, 45.6 gravity. Vented 218 MCF of gas to atmosphere.

TESTED BY Goodwin & Hardy

WITNESSED BY _____

JW Anderson
Well Test Engineer

