

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE February 13, 1978

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|--|------------------------------|-------------------------------------|-----------------------------------|
| Operator El Paso Natural Gas Company | | Lease Newberry #12 (OWWO) | |
| Location NE 4-31-12 | | County San Juan | State New Mexico |
| Formation Dakota | | Pool Basin | |
| Casing: Diameter 5 1/2 | Set At: Feet 7289' | Tubing: Diameter 2 3/8 | Set At: Feet 7163' |
| Pay Zone: From 6996 | To 7105 | Total Depth: 7289' | Shut In 1-28-78 |
| 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 -- | + 12 = PSIA -- | Days Shut-In 16 | Shut-In Pressure, Tubing PSIG 1007 | + 12 = PSIA 1019 | |
| Flowing Pressure: P PSIG 41 | - 12 = PSIA 53 | | Working Pressure: P _w PSIG Calc. | + 12 = PSIA 114 | |
| Temperature: T = 56 °F | F _t = 1.004 | n = .75 | F _p (From Tables) 1.004 | Gravity .650 | F _g = .9608 |

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

$$Q = 12.365(53)(1.004)(.9608)(1.004) = \underline{635} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1038361}{1025365} \right)^n = 635 (1.0127)^{.75} = 635(1.0095)$$

$$Aof = \underline{641} \text{ MCF/D}$$

Note: Well blew very light fog of H₂O & distillate first hour of test, then dry rest of test. Well vented 70 MCF of gas to the atmosphere during test.

TESTED BY D. Wright

WITNESSED BY _____

C. R. Wagner
Well Test Engineer