

# OPEN FLOW TEST DATA

DATE 10-8-70

|  |                      |                               |                     |
|--|----------------------|-------------------------------|---------------------|
| Operator<br>El Paso Natural Gas Company      |                      | Lease<br>Horton No. 2         |                     |
| Location<br>1100 S, 1050 W, S 29, T32N, R11W |                      | County<br>San Juan            | State<br>New Mexico |
| Formation<br>Pictured Cliffs                 |                      | Pool<br>Undesignated          |                     |
| Casing: Diameter<br>2.875                    | Set At: Feet<br>3356 | Tubing: Diameter<br>no tubing | Set At: Feet        |
| Pay Zone: From<br>3288                       | To<br>3334           | Total Depth:<br>3356          | Shut In<br>9-29-70  |
| Stimulation Method<br>S W F                  |                      | Flow Through Casing<br>XX     | Flow Through Tubing |

|                                       |                    |                             |  |                       |            |
|---------------------------------------|--------------------|-----------------------------|--|-----------------------|------------|
| Choke Size, Inches<br>.750            |                    | Choke Constant: C<br>12.365 |  | tubingless completion |            |
| Shut-In Pressure, Casing, PSIG<br>973 | + 12 = PSIA<br>985 | Days Shut-In<br>9           | Shut-In Pressure, Tubing PSIG<br>no tubing | + 12 = PSIA           |            |
| Flowing Pressure: P PSIG<br>236       | + 12 = PSIA<br>248 |                             | Working Pressure: Pw PSIG<br>Calc.         | + 12 = PSIA<br>319    |            |
| Temperature:<br>T = 65°F              | Ft = .9952         | n =<br>.85                  | Fpv (From Tables)<br>1.024                 | Gravity<br>.650       | Fg = .9608 |

CHOKE VOLUME = Q = C x P<sub>i</sub> x F<sub>t</sub> x F<sub>g</sub> x F<sub>pv</sub>

Q = (12.365)(248)(.9952)(.9608)(1.024) = 3003 MCF/D

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

Note: well blew dry gas throughout entire test

Aof =  $\left( \frac{970225}{868464} \right)^{.85} = (3003)(1.1172)^{.85} = (3003)(1.0985)$

Aof = 3299 MCF/D

TESTED BY D. Norton

WITNESSED BY \_\_\_\_\_



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