

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE September 9, 1965

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|--|-----------------------------|---|---------------------------------|
| Operator El Paso Natural Gas Company | | Lease San Juan 27-4 Unit No. 37 | |
| Location 990'S, 1550'W, Sec. 33, T-27-N, R-4-W | | County Rio Arriba | State New Mexico |
| Formation Dakota | | Pool Basin | |
| Casing: Diameter 4.000 | Set At: Feet 8461 | Tubing: Diameter 2.375 | Set At: Feet 8306 |
| Pay Zone: From 8138 | To 8330 | Total Depth: 8463 | Shut In 8-29-65 |
| Stimulation Method Sand Water Frac | | Flow Through Casing | Flow Through Tubing X |

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|--|--|--|--|---|--------------------|
| Choke Constant METER 2-1/2" Plate, 4" M.R. | | Choke Constant METER CONSTANT 38.917 | | Tested through 3/4" variable choke | |
| Shut-In Pressure, Casing, PSIG 2334 | + 12 = PSIA 2346 | Days Shut-in 11 | Shut-In Pressure, Tubing PSIG 1442 | + 12 = PSIA 1454 | |
| Flowing Pressure: P Meter - 54 ; W.H. - 185 | + 12 = PSIA Meter - 66 ; W.H. - 197 | | Working Pressure: Pw PSIG 675 | + 12 = PSIA 687 | |
| Temperature: T = 73 °F | Ft = .9877 | n = .75 | Fpv (From Tables) 1.010 | Gravity .700 | Fg = 1.1952 |

CHOKE VOLUME = Q = ~~XXXXXXXXXXXXXXXXXXXX~~Q = CALCULATED FROM ORIFICE METER READINGS = 1,629 MCF/D


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

$$Aof = \left(\frac{5,503,716}{5,031,747} \right)^n = (1629) (1.0937)^{.75} = (1629) (1.0695)$$

Aof = 1742 MCF/D

NOTE: Well produced oil for 8 minutes and water 11 minutes, beginning 5 minutes after the well was turned on. Well produced 61 bbls. of oil that went to the tank during test with some water that was drained off (approx. 10 bbls. of water). There was oil carried over and burned throughout the entire test.

TESTED BY Hermon E. McAnally & Ron HeadrickCHECKED BY W. D. Dawson


L. D. Galloway
 Lewis D. Galloway