Form C-122-A
Revised April 20, 1955

NEW MEXICO OIL CONSERVATION COMMISSION

# GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA EXCEPT BARKER DOME STORAGE AREA)

Pool West Kutz Formation Pictured Cliff County San Juan

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed

Operator El Paso Natural Gas Lease Huerfano Well No. 57

Unit L Sec. 26 Twp. 26N Rge. 9W Pay Zone: From 2026 To 2035

Casing: OD 5½ WT. 15.5 Set At 2075 Tubing: OD None WT. T. Perf.

Produced Through: Casing X Tubing Gas Gravity: Measured .665 Estimated

Date of Flow Test: From 2/28 To 3/9/57 * Date S.I.P. Measured 11/7/56

Meter Run Size Orifice Size .500 Type Chart Type Taps

## OBSERVED DATA

| | | | |
|---|---|---|---|
| Flowing casing pressure (Dwt) | psig + 12 = | psia | (a) |
| Flowing tubing pressure (Dwt) | psig + 12 = | psia | (b) |
| Flowing meter pressure (Dwt) | psig + 12 = | psia | (c) |
| Flowing meter pressure (meter reading when Dwt. measurement taken: | | | |
| Normal chart reading | psig + 12 = | psia | (d) |
| Square root chart reading ( ) $^2$ x spring constant | = | psia | (d) |
| Meter error (c) - (d) or (d) - (c) | ± = | psi | (e) |
| Friction loss, Flowing column to meter: | | | |
| (b) - (c) Flow through tubing: (a) - (c) Flow through casing | = | psi | (f) |
| Seven day average static meter pressure (from meter chart): | | | |
| Normal chart average reading | psig + 12 = | psia | (g) |
| Square root chart average reading (6.85) $^2$ x sp. const. 5 | = 235 | psia | (g) |
| Corrected seven day avge. meter press. ($p_f$) (g) + (e) | = 235 | psia | (h) |
| $P_t$ = (h) + (f) | = 235 | psia | (i) |
| Wellhead casing shut-in pressure (Dwt) 607 | psig + 12 = 619 | psia | (j) |
| Wellhead tubing shut-in pressure (Dwt) | psig + 12 = | psia | (k) |
| $P_c$ = (j) or (k) whichever well flowed through | = 619 | psia | (l) |
| Flowing Temp. (Meter Run) 39 °F + 460 | = 499 | °Abs | (m) |
| $P_d$ = ½ $P_c$ = ½ (l) | = 310 | psia | (n) |

## FLOW RATE CALCULATION

Q = (integrated) X $\left( \frac{\sqrt{(c)}}{\sqrt{(d)}} = \quad = \quad \right)^*$ = 25 MCF/da

## DELIVERABILITY CALCULATION

$D = Q \left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{287,061}{327,936} \right]^n \frac{.8753}{.8930} =$ 22 MCF/da.

## SUMMARY

| | | | |
|---|---|---|---|
| $P_c$ = | 619 | psia | |
| Q = | 25 | Mcf/day | |
| $P_w$ = | 235 | psia | |
| $P_d$ = | 310 | psia | |
| D = | 22 | Mcf/day | |

Company El Paso Natural Gas Company
By Original Signed
Title Lewis D. Galloway
Witnessed by
Company

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

| GL | $(1-e^{-s})$ | $(F_cQ)2$ | $\frac{(FcQ)^2}{R^2}$ $(1-e^{-s})$ | $Pt^2$ (Column i) | $P_t^2 + R^2$ | $P_w$ |
|---|---|---|---|---|---|---|
| | | | FRICTION NEGLIGIBLE | | | |

D @ 250 = 24

RECEIVED