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 Aztec Pictured Cliff Formation Pictured Cliff County San Juan

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed

Operator El Paso Natural Gas Co. Lease Swires Well No. 1

Unit D Sec. 15 Twp. 30 Rge. 11 Pay Zone: From 2169 To 2184

Casing: OD 5½ WT. 15.5 lines Set At 2022-2188 Tubing: OD 1 WT. 1.68 T. Perf. 2148

Produced Through: Casing ____ Tubing X Gas Gravity: Measured .630 Estimated ____

Date of Flow Test: From 7-8 To 7-16 * Date S.I.P. Measured 5-22-56

Meter Run Size 4 Orifice Size ____ Type Chart Sq. Rt. Type Taps Flange

## 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 (6.90)$^2$ x sp. const. .500 | = | 238 | psia | (g) |
| Corrected seven day avge. meter press. ($p_f$) (g) + (e) | = | 238 | psia | (h) |
| $P_t$ = (h) + (f) | = | 238 | psia | (i) |
| Wellhead casing shut-in pressure (Dwt) 662 | psig + 12 = | 674 | psia | (j) |
| Wellhead tubing shut-in pressure (Dwt) 662 | psig + 12 = | 674 | psia | (k) |
| $P_c$ = (j) or (k) whichever well flowed through | = | 674 | psia | (l) |
| Flowing Temp. (Meter Run) 75 °F + 460 | = | 535 | °Abs | (m) |
| $P_d$ = ½ $P_c$ = ½ (l) | = | 337 | psia | (n) |

## FLOW RATE CALCULATION

$$Q = \text{____ (integrated)} \times \left( \frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \frac{\quad}{\quad} \right)^{*} = 149 \text{ MCF/da}$$

## DELIVERABILITY CALCULATION

$$D = Q \left[ \frac{\left(P_c^2 - P_d^2\right) = 340{,}707}{\left(P_c^2 - P_w^2\right) = 392{,}330} \right]^{n} \frac{.8684}{.8870} = 132 \text{ MCF/da.}$$

SUMMARY

| | | |
|---|---|---|
| $P_c$ = | 674 | psia |
| Q = | 149 | Mcf/day |
| $P_w$ = | 249 | psia |
| $P_d$ = | 337 | psia |
| D = | 134 | 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) | $P_t^2 + R^2$ | $P_w$ |
|---|---|---|---|---|---|---|
| 1353 | .094 | 56.400 | 5302 | 56,644 | 61,946 | 249 |

D @ 250 = 145

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