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 South Blanco Pictured Cliff Formation Pictured Cliff County San Juan

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed

Operator El Paso Natural Gas Company Lease Schwerdtfeger Well No. 2-A

Unit B Sec. 21 Twp. 27N Rge. 8W Pay Zone: From 2389 To 2478

Casing: OD 7 WT. 20 Set At 2389 Tubing: OD 1 WT. 1.68 T. Perf. 2414

Produced Through: Casing X Tubing Gas Gravity: Measured Estimated .640

Date of Flow Test: From Jan. 8 To Jan. 16 * Date S.I.P. Measured November 21, 1955

Meter Run Size 4 Orifice Size Type Chart Sq. Root 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 (7.15) $^2$ x sp. const. 500 | = 256 | psia | (g) |
| Corrected seven day avge. meter press. ($p_f$) (g) + (e) | = 256 | psia | (h) |
| $P_t$ = (h) + (f) | = 256 | psia | (i) |
| Wellhead casing shut-in pressure (Dwt) 811 | psig + 12 = 823 | psia | (j) |
| Wellhead tubing shut-in pressure (Dwt) 811 | psig + 12 = 823 | psia | (k) |
| $P_c$ = (j) or (k) whichever well flowed through | = 823 | psia | (l) |
| Flowing Temp. (Meter Run) 43 °F + 460 | = | °Abs | (m) |
| $P_d$ = ½ $P_c$ = ½ (l) | = 412 | psia | (n) |

## FLOW RATE CALCULATION

$$Q = 1075 \text{ (integrated)} \times \left( \frac{\sqrt{(c)}}{\sqrt{(d)}} = \quad = \quad \right)^{*} = \quad \text{MCF/da}$$

## DELIVERABILITY CALCULATION

$$D = Q\,1075 \left[ \frac{(P_c^2 - P_d^2) = 507{,}585}{(P_c^2 - P_w^2) = 611{,}793} \right]^{n} \frac{.8297}{.8532} = 917 \text{ MCF/da.}$$

## SUMMARY

$P_c$ = 823 psia
Q = 1075 Mcf/day
$P_w$ = 256 psia
$P_d$ = 412 psia
D = 917 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) | $P_c^2 - R^2$ | $P_w$ |
|---|---|---|---|---|---|---|
| | | | Friction Negligible | | | |

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D @ 250 = 1070

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