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 P.C. Formation Pictured Cliffs County Rio Arriba

Purchasing Pipeline El Paso Natural Gas Date Test Filed

Operator El Paso Natural Gas Lease Lindrith Well No. 22

Unit D Sec. 19 Twp. 24 Rge. 2 Pay Zone: From 3080 To 3106

Casing: OD 5-1/2 WT. 15.50 Set At 3144 Tubing: OD 1-1/4 WT. 2.3 T. Perf. 3056

Produced Through: Casing ____ Tubing X Gas Gravity: Measured .652 Estimated ____

Date of Flow Test: From 1/13/58 To 2/8/58 * Date S.I.P. Measured 1-9-58

Meter Run Size ____ Orifice Size ____ 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 (7.70)$^2$ x sp. const. 5.0 = 296 psia | | | (g) |
| Corrected seven day avge. meter press. ($p_f$) (g) + (e) = 296 psia | | | (h) |
| $P_t$ = (h) + (f) = 296 psia | | | (i) |
| Wellhead casing shut-in pressure (Dwt) 992 psig + 12 = 1004 psia | | | (j) |
| Wellhead tubing shut-in pressure (Dwt) 992 psig + 12 = 1004 psia | | | (k) |
| $P_c$ = (j) or (k) whichever well flowed through = 1004 psia | | | (l) |
| Flowing Temp. (Meter Run) 42 °F + 460 = 502 °Abs | | | (m) |
| $P_d$ = ½ $P_c$ = ½ (l) = 502 psia | | | (n) |

## FLOW RATE CALCULATION

$$Q = \text{____ (integrated)} \times \left( \frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \quad \right)^{*} = 381 \text{ MCF/da}$$

## DELIVERABILITY CALCULATION

$$D = Q \left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{756012}{908534} \right]^{n} \frac{(.8321)^{.85}}{(.8555)} = 326 \text{ MCF/da.}$$

## SUMMARY

$P_c$ = 1004 psia
Q = 381 Mcf/day
$P_w$ = 315 psia
$P_d$ = 502 psia
D = 326 Mcf/day

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

* This is date of completion test.
* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

| GL | $(1-e^{-s})$ | $(F_cQ)2$ | $\frac{(FcQ)^2 (1-e^{-s})}{R^2}$ | $Pt^2$ (Column i) | $P_t^2 + R^2$ | $P_w$ |
|---|---|---|---|---|---|---|
| 1993 | .135 | 87.894 | 11.866 | 87,616 | 99,482 | 315 |

D at 250 = 388

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