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 Formation Pictured Cliff County Rio Arriba

Purchasing Pipeline El Paso Natural Gas Date Test Filed

Operator El Paso Natural Gas Lease San Juan 28-7 Unit Well No. 65

Unit H Sec. 28 Twp. 27 Rge. 7 Pay Zone: From 2890 To 2950

Casing: OD 5-1/2 WT. 15.5 Set At 2996 Tubing: OD 1-1/4 WT. 2.3 T. Perf. 2912

Produced Through: Casing X Tubing Gas Gravity: Measured .705 Estimated

Date of Flow Test: From 9/22 To 9/30/57 Date S.I.P. Measured 1/17/57

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 (7.55) $^2$ x sp. const. .5 | = 285 | psia | (g) |
| Corrected seven day avge. meter press. ($p_f$) (g) + (e) | = 285 | psia | (h) |
| $P_t$ = (h) + (f) | = 285 | psia | (i) |
| Wellhead casing shut-in pressure (Dwt) 817 | psig + 12 = 829 | psia | (j) |
| Wellhead tubing shut-in pressure (Dwt) 817 | psig + 12 = 829 | psia | (k) |
| $P_c$ = (j) or (k) whichever well flowed through | = 829 | psia | (l) |
| Flowing Temp. (Meter Run) 61 °F + 460 | = 521 | °Abs | (m) |
| $P_d$ = ½ $P_c$ = ½ (l) | = 415 | psia | (n) |

## FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left( \frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \frac{\quad}{\quad} \right)^{*} = 358 \text{ MCF/da}$$

## DELIVERABILITY CALCULATION

$$D = Q \left[ \left( \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right) = \frac{515,016}{606,016} \right]^{n} \frac{.8498}{.8706} = 312 \text{ MCF/da.}$$

## SUMMARY

| | | | |
|---|---|---|---|
| $P_c$ = | 829 psia | Company | El Paso Natural Gas |
| Q = | 358 Mcf/day | By | Original Signed |
| $P_w$ = | 285 psia | Title | Lewis D. Galloway |
| $P_d$ = | 415 psia | Witnessed by | |
| D = | 312 Mcf/day | Company | |

* This is date of completion test.

* Meter error correction factor

RECEIVED
DEC 2 1957
OIL CON. COM.
DIST. 3

REMARKS OR FRICTION CALCULATIONS

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

D at 250 = 364