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 **Blanco Mesa Verde** Formation **Mesa Verde** County **San Juan**

Purchasing Pipeline **El Paso Natural Gas Company** Date Test Filed

Operator **El Paso Natural Gas Company** Lease **Hughes** Well No. **1-A**

Unit **A** Sec. **33** Twp. **29** Rge. **8** Pay Zone: From **4556** To **4727**

Casing: OD **5½** WT. **15.5** Set At **5370** Tubing: OD **2"** WT. **4.7#** T. Perf. **5205**

Produced Through: Casing **X** Tubing Gas Gravity: Measured **.680** Estimated

Date of Flow Test: From **3/23/56** To **3/31/56** * Date S.I.P. Measured **12/10/52**

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 **1000** | psig + 12 = **570** | psia | (g) |
| Square root chart average reading (**7.55**) $^2$ x sp. const. | = **570** | psia | (g) |
| Corrected seven day avge. meter press. ($p_f$) (g) + (e) | = **570** | psia | (h) |
| $P_t$ = (h) + (f) | = **570** | psia | (i) |
| Wellhead casing shut-in pressure (Dwt) **1054** | psig + 12 = **1066** | psia | (j) |
| Wellhead tubing shut-in pressure (Dwt) **1054** | psig + 12 = **1066** | psia | (k) |
| $P_c$ = (j) or (k) whichever well flowed through | = **1066** | psia | (l) |
| Flowing Temp. (Meter Run) **73** °F + 460 | = | °Abs | (m) |
| $P_d$ = ½ $P_c$ = ½ (l) | = **533** | psia | (n) |

## FLOW RATE CALCULATION

Q = _____ (integrated) X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \frac{\quad}{\quad}\right)^{*}$ = **1259** MCF/da

## DELIVERABILITY CALCULATION

$D = Q \left[\frac{(P_c^2 - P_d^2) = 852,267}{(P_c^2 - P_w^2) = 779,650}\right]^{n}$ $\frac{1.0931}{1.0690}$ = **1346** MCF/da.

SUMMARY

| | | |
|---|---|---|
| $P_c$ = **1066** | psia | Company **El Paso Natural Gas Company** |
| Q = **1259** | Mcf/day | By (Original Signed) **Lewis D. Galloway** |
| $P_w$ = **597** | psia | Title |
| $P_d$ = **533** | psia | Witnessed by |
| D = **1346** | Mcf/day | 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) | $P_t^2 + R^2$ | $P_w$ |
|---|---|---|---|---|---|---|
| 3539 | .227 | 140.115 | 31,806 | 324,900 | 356,706 | 597 |

D @ 500 = 1331

Test after workover for new allowable.

RECEIVED
MAY 28 1956
OIL CON
DIST.