Form C-122-A
Revised April 20, 1955

Initial Deliverability Test

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 R. A.

Purchasing Pipeline EL PASO NATURAL GAS CO. Date Test Filed 11/6/57

Operator H & G DRILLING CO. INC. Lease MARRON Well No. 38

Unit E Sec. 23 Twp. 27N Rge. 8W Pay Zone: From 2136 To 2196

Casing: OD 5½ WT. X Set At 2232 Tubing: OD ____ WT. ____ T. Perf. ____

Produced Through: Casing ____ Tubing ____ Gas Gravity: Measured .625 Estimated ____

Date of Flow Test: From 4-8 To ____ * Date S.I.P. Measured 5/12/57

Meter Run Size ____ Orifice Size 1.500 Type Chart SR 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 7.05 1000 psig + 12 = 497 psia | | | (g) |
| Square root chart average reading (____)$^2$ x sp. const. ____ = ____ psia | | | (g) |
| Corrected seven day avge. meter press. ($p_f$) (g) + (e) = 497 psia | | | (h) |
| $P_t$ = (h) + (f) = 862 psia | | | (i) |
| Wellhead casing shut-in pressure (Dwt) 850 psig + 12 = 862 psia | | | (j) |
| Wellhead tubing shut-in pressure (Dwt) ____ psig + 12 = ____ psia | | | (k) |
| $P_c$ = (j) or (k) whichever well flowed through = 862 psia | | | (l) |
| Flowing Temp. (Meter Run) 62 °F + 460 = 522 °Abs | | | (m) |
| $P_d$ = ½ $P_c$ = ½ (l) = 431 psia | | | (n) |

## FLOW RATE CALCULATION

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

## DELIVERABILITY CALCULATION

$$D = Q \left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{557,283}{496,035} \right]^{n} = 365 \left[ \quad \right]^{1.1040} = 403 \text{ MCF/da.}$$

## SUMMARY

| | | |
|---|---|---|
| $P_c$ = 862 | psia | Company GEOLECTRIC, INC. |
| Q = 365 | Mcf/day | By B H KEYES |
| $P_w$ = 497 | psia | Title AGENT |
| $P_d$ = 431 | psia | Witnessed by ____ |
| D = 403 | Mcf/day | Company ____ |

* This is date of completion test.

* Meter error correction factor

## REMARKS OR FRICTION CALCULATIONS

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

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