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 West-Kutz Formation Pictured Cliffs County SJ

Purchasing Pipeline El Paso Natural Gas Co Date Test Filed 3/6/57

Operator RMG Drilling Co Lease R&G Well No. 19

Unit B Sec. 28 Twp. 28N Rge. 11W Pay Zone: From _____ To _____

Casing: OD _____ WT. _____ Set At _____ Tubing: OD _____ WT. _____ T. Perf. _____

Produced Through: Casing X Tubing _____ Gas Gravity: Measured .655 Estimated _____

Date of Flow Test: From 1/26/57 To 1/31/57 * Date S.I.P. Measured _____

Meter Run Size 4" Orifice Size _____ Type Chart Sq Rt 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 (6.65)$^2$ x sp. const. 5.00 | = | 221 | psia | (g) |
| Corrected seven day avge. meter press. ($p_f$) (g) + (e) | = | _____ | psia | (h) |
| $P_t$ = (h) + (f) | = | 221 | psia | (i) |
| Wellhead casing shut-in pressure (Dwt) 400 | psig + 12 = | 412 | psia | (j) |
| Wellhead tubing shut-in pressure (Dwt) | _____ psig + 12 = | _____ | psia | (k) |
| $P_c$ = (j) or (k) whichever well flowed through | = | 412 | psia | (l) |
| Flowing Temp. (Meter Run) 32 °F + 460 | = | 492 | °Abs | (m) |
| $P_d$ = ½ $P_c$ = ½ (l) | = | 206 | psia | (n) |

## FLOW RATE CALCULATION

Q = 35 (integrated) X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \frac{\quad}{\quad}\right)^*$ = 35 MCF/da

## DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{127,308}{120,903}\right]^n$ 1.0423 = 36 MCF/da.

SUMMARY

| | | | |
|---|---|---|---|
| $P_c$ = | 412 psia | Company | Geolectric, Inc |
| Q = | 35 Mcf/day | By | W. J. McConally |
| $P_w$ = | 221 psia | Title | Agent |
| $P_d$ = | 206 psia | Witnessed by | |
| D = | 36 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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