3-N.M. O.C.C. Aztec
1-Bill Cutler
1-L. D. Galloway
2-File

Initial Deliverability Test

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 Rio Arriba

Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed 12-9-57

Operator PACIFIC NORTHWEST PIPELINE Lease Rosa Well No. 17-20

Unit M Sec. 20 Twp. 31N Rge. 5W Pay Zone: From 5772' To 5678'

Casing: OD 5" WT. _____ Set At 5836' Tubing: OD 2-3/8" WT. 4.7 T. Perf. 5788'

Produced Through: Casing _____ Tubing xx Gas Gravity: Measured .585 Estimated _____

Date of Flow Test: From 10-31-57 To 11-8-57 Date S.I.P. Measured 12-29-56

Meter Run Size _____ Orifice Size 1.000 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 (5.75)$^2$ x sp. const. 1.500 | = | 496 | psia | (g) |
| Corrected seven day avge. meter press. ($p_f$) (g) + (e) | = | _____ | psia | (h) |
| $P_t$ = (h) + (f) | = | 496 | psia | (i) |
| Wellhead casing shut-in pressure (Dwt) 1192 | psig + 12 = | 1204 | psia | (j) |
| Wellhead tubing shut-in pressure (Dwt) 1192 | psig + 12 = | 1204 | psia | (k) |
| $P_c$ = (j) or (k) whichever well flowed through | = | 1204 | psia | (l) |
| Flowing Temp. (Meter Run) 56 °F + 460 | = | 516 | °Abs | (m) |
| $P_d$ = ½ $P_c$ = ½ (l) | = | 602 | psia | (n) |

## FLOW RATE CALCULATION

$$Q = 250 \text{ (integrated)} \times \left( \frac{\sqrt{(c)}}{\sqrt{(d)}} = \_\_\_\_ = \_\_\_\_ \right)^{*} = 250 \text{ MCF/da}$$

## DELIVERABILITY CALCULATION

$$D = Q \left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{1,087,212}{1,202,406} \right]^{n} \frac{(0.9042)^{.75}}{(0.9276)} = 232 \text{ MCF/da.}$$

## SUMMARY

| | | | |
|---|---|---|---|
| $P_c$ = | 1204 | psia | |
| Q = | 250 | Mcf/day | |
| $P_w$ = | 497 | psia | |
| $P_d$ = | 602 | psia | |
| D = | 232 | Mcf/day | |

Company PACIFIC NORTHWEST PIPELINE CORP.
By Original signed by G. H. Peppin
Title District Production Manager
Witnessed by _____
Company _____

RECEIVED
DEC 10 1957
OIL CON. COM.
DIST. 3

* 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) | $P_t^2 + R^2$ | $P_w$ |
|---|---|---|---|---|---|---|
| 3351 | 0.216 | 5,527 | 1,194 | 246,016 | 247,210 | 497 |