1-Mill Cutler
1-L. D. Galloway
1-Hugo Smith
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 Chaco Mesa Formation Pictured Cliffs County Rio Arriba

Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed 5-22-58

Operator PACIFIC NORTHWEST Lease San Juan 28-4 Well No. 7-12

Unit P Sec. 12 Twp. 28N Rge. 4W Pay Zone: From 3912' To 4145'

Casing: OD 5½" WT. 14.# Set At 3912' Tubing: OD 2-3/8" WT. 4.7# T. Perf. 4086'

Produced Through: Casing ____ Tubing x x Gas Gravity: Measured .672 Estimated ____

Date of Flow Test: From 2-20-58 To 2-28-58* Date S.I.P. Measured 9-8-55

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 = 624 | psia | (g) |
| Square root chart average reading (7.90)$^2$ x sp. const. 10 | = ____ | psia | (g) |
| Corrected seven day avge. meter press. ($p_f$) (g) + (e) | = 624 | psia | (h) |
| $P_t$ = (h) + (f) | = 1085 | psia | (i) |
| Wellhead casing shut-in pressure (Dwt) 1013 | psig + 12 = 1085 | psia | (j) |
| Wellhead tubing shut-in pressure (Dwt) 1013 | psig + 12 = 1085 | psia | (k) |
| $P_c$ = (j) or (k) whichever well flowed through | = 1085 | psia | (l) |
| Flowing Temp. (Meter Run) 60 °F + 460 | = 520 | °Abs | (m) |
| $P_d$ = ½ $P_c$ = ½ (l) | = 512.5 | psia | (n) |

## FLOW RATE CALCULATION

$Q =$ 8 (integrated) $\times \left( \frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \quad \right)^* =$ 8 MCF/da

## DELIVERABILITY CALCULATION

$D = Q \left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{787969}{661249} \right]^n = 8 \left[ \frac{787969}{661249} \right]^{.85} = 8 \left[ \frac{(1.192)}{1.161} \right] = 9$ MCF/da.

## SUMMARY

| | | |
|---|---|---|
| $P_c$ = | 1025 | psia |
| Q = | 8 | Mcf/day |
| $P_w$ = | 624 | psia |
| $P_d$ = | 512.5 | psia |
| D = | 9 | Mcf/day |

Company PACIFIC NORTHWEST PIPELINE
By Original signed by G. H. Peppin
Title District Production Engineer
Witnessed by ____
Company ____

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

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

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MAY 22 1958
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DIST.