

ASCC Astec
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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 Huamaco Formation Mesa Verde County Rio Arriba
Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed 2-13-58
Operator PACIFIC NORTHWEST PIPELINE Lease Rosa Well No. 23-29
Unit M Sec. 29 Twp. 31N Rge. 7W Pay Zone: From 5474' To 5804'
Casing: OD 5-1' WT. 14.0 Set At 5935' Tubing: OD 2" WT. 4.7 T. Perf. 5806'
Produced Through: Casing Tubing X X Gas Gravity: Measured .990 Estimated
Date of Flow Test: From 11-22-57 To 11-30-57 * Date S.I.P. Measured 5-2-57
Meter Run Size Orifice Size 1.0 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 = psia (g)
Square root chart average reading (6.30)² x sp. const. 15.000 = 595 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 595 psia (i)
P_t = (h) + (f) = 595 psia (i)
Wellhead casing shut-in pressure (Dwt) 1065 psig + 12 = 1077 psia (j)
Wellhead tubing shut-in pressure (Dwt) 964 psig + 12 = 976 psia (k)
P_c = (j) or (k) whichever well flowed through = 1077 psia (l)
Flowing Temp. (Meter Run) 78 °F + 460 = 538 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 538.5 psia (n)

FLOW RATE CALCULATION

Q = 711 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^{.75} = \underline{711}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 711 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^{.75} (1.093) = \underline{760}$ MCF/da.

SUMMARY

P_c = 1077 psia
Q = 711 Mcf/day
P_w = 603 psia
P_d = 538.5 psia
D = 760 Mcf/day

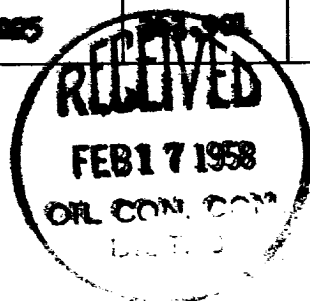
Company PACIFIC NORTHWEST PIPELINE CORP.
By Original signed by G. H. Pappas
Title District Promotion Engineer
Witnessed by
Company

- * This is date of completion test.
- * Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-s})	(F _c Q) ²	(F _c Q) ² (1-e ^{-s}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
<u>3426</u>	<u>0.221</u>	<u>44.609</u>	<u>9.876</u>	<u>354.025</u>	<u>353.901</u>	<u>603</u>

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