

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 BLANCO Formation MESAVERDE County RIO ARriba
Purchasing Pipeline PACIFIC NORTHWEST PIPELINE CORP. Date Test Filed March 14, 1957
Operator El Paso Natural Gas Company Lease San Juan 28-6 Well No. 14-17
Unit K Sec. 17 Twp. 28N Rge. 6W Pay Zone: From 5023 To 5750
Casing: OD 7" WT. XX Set At 5023 Tubing: OD 2 3/8 WT. 6.7 T. Perf. 5729
Produced Through: Casing XX Tubing .690 Gas Gravity: Measured 11-20-54 Estimated 11-20-54
Date of Flcw Test: From 2-18-57 To 2-26-57 * Date S.I.P. Measured 11-20-54
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 580 psig + 12 = 592 psia (g)
Square root chart average reading ()² x sp. const. = 592 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 592 psia (h)
P_t = (h) + (f) = 592 psia (i)
Wellhead casing shut-in pressure (Dwt) 1073 psig + 12 = 1085 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1073 psig + 12 = 1085 psia (k)
P_c = (j) or (k) whichever well flowed through = 1085 psia (l)
Flowing Temp. (Meter Run) 72 °F + 460 = 532 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 542 psia (n)

Q = 637 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{ }}{\sqrt{(d)}} = \text{ }} \right)^* = \text{687 MCF/da}$
(integrated)

D = Q 637 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{(1.0826)^{.75}}{1.0613} \times \text{729} = \text{729 MCF/da.}$
DELIVERABILITY CALCULATION

SUMMARY
P_c = 1085 psia
Q = 637 Mcf/day
P_w = 601 psia
P_d = 542 psia
D = 729 Mcf/day
Company Pacific Northwest Pipeline
By Original signed by J. L. Deakin
Title District Proration Engineer
Witnessed by
Company

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

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(FcQ) ²	(FcQ) ² (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
3953	0.250	41.719	10.430	350.5	360.9	601

3-N.M.O.C.C.-Aztec
1-El Paso Natural Gas (Galloway)
1-L. G. Truby
2-File

