

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 MESA VERDE County RIO ARRIBA
Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed Jan. 18, 1961
Operator LA PLATA GATHERING SYSTEM, INC. Lease San Juan Unit 32-5 Well No. 1-25
Unit M Sec. 25 Twp. 32N Rge. 6W Pay Zone: From 5444 To 5784
Casing: OD 5-1/2" WT. 13.5# Set At 5835' Tubing: OD 2-1/8" WT. 4.7 T. Perf. 5760
Produced Through: Casing Tubing X Gas Gravity: Measured 0.585 Estimated
Date of Flow Test: From 12-7-60 To 12-15-60 Date S.I.P. Measured May 19, 1960
Meter Run Size 4" Orifice Size 2.000 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 (7.25) ² x sp. const. 10 = 526 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 526 psia (h)
 = 526 psia (i)
P_t = (h) + (f) = 1253 psig + 12 = 1265 psia (j)
Wellhead casing shut-in pressure (Dwt) 1253 psig + 12 = 1265 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1255 psig + 12 = 1267 psia (k)
P_c = (j) or (k) whichever well flowed through = 1267 psia (l)
Flowing Temp. (Meter Run) 64 °F + 460 = 524 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 634 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 1.066 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = \frac{1,203,300}{1,328,400} \times 0.929 = 990 \text{ MCF/da.}$

SUMMARY

P_c = 1,267 psia
Q = 1,066 Mcf/day
P_w = 526 psia
P_d = 634 psia
D = 990 Mcf/day

Company LA PLATA GATHERING SYSTEM, INC.
By Virgil L. Stebbins, Engineer
Title
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
3370	0.217	856	186	276,676	276,862	526



