

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. 16, 1961

Operator LA PLATA GATHERING SYSTEM, INC. Lease San Juan Unit 32-5 Well No. 1-31 MV
Unit A Sec. 31 Twp. 32N Rge. 5W Pay Zone: From 5738 To 6028
Casing: OD 5-1/2" WT. 17# Set At 8355 Tubing: OD 1 1/2" EUE WT. 2.4# T. Perf. 6043
Produced Through: Casing X Tubing _____ Gas Gravity: Measured 0.588 Estimated _____
Date of Flow Test: From 12-1-60 To 12-8-60 * Date S.I.P. Measured Oct. 24, 1960
Meter Run Size 4" Orifice Size 1.250 Type Chart 8q/ 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)
P_t = (h) + (f) _____ = 526 psia (i)
Wellhead casing shut-in pressure (Dwt) 1090 psig + 12 = 1102 psia (j)
Wellhead tubing shut-in pressure (Dwt) 439 psig + 12 = 451 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1102 psia (l)
Flowing Temp. (Meter Run) 57 °F + 460 _____ = 517 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 551 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 877 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{910,800}{937,600} \right]^n$ 0.9785 = 858 MCF/da.

SUMMARY

P_c = 1102 psia
Q = 877 Mcf/day
P_w = 526 psia
P_d = 551 psia
D = 858 Mcf/day

Company LA PLATA GATHERING SYSTEM, INC.
By Virgil L. Stearns
Title 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
3553	0.228	632	144	276,676	276,820	526



