

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 BASIN DAKOTA Formation DAKOTA 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 (a)
Unit A Sec. 31 Twp. 32N Rge. 5W Pay Zone: From 8184 To 8300
Casing: OD 5-1/2" WT. 17# Set At 8355 Tubing: OD 2-1/16 WT. 3.4 T. Perf. 8070
Produced Through: Casing Tubing X Gas Gravity: Measured 0.600 Estimated
Date of Flow Test: From 12-1-60 To 12-8-60 * Date S.I.P. Measured Oct. 31, 1960
Meter Run Size 4" Orifice Size 0.750 Type Chart Se/ 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) 2311 psig + 12 = 2323 psia (j)
Wellhead tubing shut-in pressure (Dwt) 2311 psig + 12 = 2323 psia (k)
P_c = (j) or (k) whichever well flowed through = 2323 psia (l)
Flowing Temp. (Meter Run) 91 °F + 460 = 551 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 1162 psia (n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

D = Q 123 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \text{MCF/da.}$
4.046,100 0.341 103

SUMMARY

P_c = 2323 psia
Q = 123 Mcf/day
P_w = 527 psia
P_d = 1162 psia
D = 103 Mcf/day

Company LA PLATA GATHERING SYSTEM, INC.
By
Title Virgil L. Steeba, 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
4842	0.297	2732	808	276,576	277,484	527



