

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 January 18, 1961
Operator LA PLATA GATHERING SYSTEM, INC. Lease SAN JUAN 32-5 UNIT Well No. 1-26
Unit C Sec. 26 Twp. 32N Rge. 6W Pay Zone: From 5636 To 5750
Casing: OD 5-1/2" WT. 15.5# Set At 5800 Tubing: OD 2-3/8" WT. 4.7# T. Perf. 5769
Produced Through: Casing Tubing X Gas Gravity: Measured 0.597 Estimated
Date of Flow Test: From 12-15-60 To 12-22-60 * Date S.I.P. Measured June 10, 1959
Meter Run Size 4" Orifice Size 1.000 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)
P_t = (h) + (f) = 526 psia (i)
Wellhead casing shut-in pressure (Dwt) 838 psig + 12 = 850 psia (j)
Wellhead tubing shut-in pressure (Dwt) 826 psig + 12 = 838 psia (k)
P_c = (j) or (k) whichever well flowed through = 838 psia (l)
Flowing Temp. (Meter Run) 72 °F + 460 = 532 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 419 psia (n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

$$D = Q \times \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \text{MCF/da.}$$

296 526,600 1.173 347
925,500
425,568

SUMMARY

P_c = 838 psia
Q = 296 Mcf/day
P_w = 526 psia
P_d = 419 psia
D = 347 Mcf/day

Company LA PLATA GATHERING SYSTEM, INC.
By Miguel A. Sloat
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
			Friction negligible			

OK



