

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)

72-579

Pool South Blanco Formation Pictured Cliffs County El Arriba

Purchasing Pipeline El Paso Natural Gas

Date Test Filed _____

Operator El Paso Natural Gas Lease Rincon Well No. 68

Unit P Sec. 27 Twp. 27 Rge. 7 Pay Zone: From 3110 To 3168

Casing: OD 5-1/2 WT. 15.5 Set At 3199 Tubing: OD 2 WT. 4.7 T. Perf. 3194

Produced Through: Casing _____ Tubing K Gas Gravity: Measured .708 Estimated _____

Date of Flow Test: From 1/30/60 To 2/7/60 * Date S.I.P. Measured 9/23/59

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 _____ psig + 12 = _____ psia (g)

Square root chart average reading (_____) ² x sp. const. 225 = 235 psia (g)

Corrected seven day avge. meter press. (p_f) (g) + (e) = 235 psia (h)

P_t = (h) + (f) = 235 psia (i)

Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = 449 psia (j)

Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ + _____ psia (k)

P_c = (j) or (k) whichever well flowed through = 449 psia (l)

Flowing Temp. (Meter Run) 27 °F + 460 = 487 °Abs (m)

P_d = ½ P_c = ½ (l) = 225 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{V(c)}{V(d)} \times \left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right)^{1/2} = \frac{110}{1} \text{ MCF/cd}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{1/2} = \frac{110}{1.0266} = 113 \text{ MCF/dc.}$$

SUMMARY

P_c = 449 psia
Q = 110 Mcf/day
P_w = 235 psia
P_d = 225 psia
D = 113 Mcf/day

Company El Paso Natural Gas
By _____
Title Original Signed
Witnessed by Harold L. Kendrick
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			

D at 250 = 101

+ Use SIPT for P_c. SIPT not available

Piston installed 1/6/60

