Form C122-A

Revised April 26, 1965

NEW MEXICO OIL CONSERVATION COMMISSION

GAS WELL TEST DATA SHEET - SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & DAKOTA
EXCEPT BARKER DOME STORAGE AREA)

Pool Pictured Cliffs Formation Pictured Cliffs County Rio Arriba

Purchasing Pipeline El Paso Natural Gas Date Test Filed

Operator El Paso Natural Gas Lease Elmer Hatt Well No. 11

Unit D Sec. 21 Twp. 27N Rge. 6W Pay Zone: From 3066 To 3214

Casing: OD 5 1/2 WT. 14.5 Set At 3215 Tubing: OD 1.25 WT. 2.4 T. Perf. 3066

Type Well - Single - Bradenhead - G.G. or G.O.W. Single Tubing Gas (Dry) Measured 725 Est.

Date of Flow Test: From 8/20/65 To 8/22/65 Date S.I.P. Measured 8/25/65 (72 Days)

Completion Date Orifice Size Type Chart Type Taps

OBSERVED DATA

(1) Tubing Flowing Pressure (Dwt) psig + 12 = (a)

(2) Tubing Pressure (Dwt) psig + 12 = (b)

(3) Bottom Hole Pressure (Dwt) psig + 12 = (c)

Flowing Bottom Hole Pressure (prior reading when Dwt measurement taken)

(4) Normal dead reading psig + 12 = (d)

(5) Dead weight reading (^{2} x spring constant = (e)

(6) Flowing Bottom Hole Pressure (d) - (e) or (d) - (c) = (f)

Pressure at Datum Feet Drilling Column to water

(7) Flow through tubing, (a) - (c) Flow through casing = (g)

Average temperature of flowing column (from survey data)

(8) Average ambient temperature reading psig + 12 = (h)

(9) Average flowing column temperature reading (.5 x ambient) = 525 (i)

(10) Average ambient temperature (h) + (i) = 525 (j)

(11) Average temperature of flowing column (h) + (i) = 525 (k)

(12) Barometer Pressure psig + 12 = 12.0 (l)

(13) Average static column pressure (Dwt) 1073 psig + 12 = 1085 (m)

(14) Average flowing column pressure (Dwt) 1073 psig + 12 = 1085 (n)

(15) (m) or (n) whichever well flowed through 1085 (o)

(16) Flowing Tempe. (Meter Run) 525 (p)

(17) $P_c = \sqrt{(o)^2 + (l)^2}$ 1092 (q)

FLOW RATE CALCULATION

$$Q = \left(\frac{\sqrt{(q)^2 - (p)^2}}{\sqrt{(q)^2 - (p)^2}} \right)^n = 372$$

(integrated)

DELIVERABILITY CALCULATION

$$372 \left[\frac{(P_c^2 - P_a^2)}{(P_c^2 - P_w^2)} \right]^n = 372 \left[\frac{1,192,225}{1,177,225} \right]^{.75} = 372 \times 1.0127^{.75} = 372 \times 1.0095 = 375$$

SUMMARY

Q =	375 psig	Company	El Paso Natural Gas
Pc =	1085 Mcf/day	By	Original Signed
Pa =	525 psia	Title	Harold L. Kendrick
Pd =	525 psia	Witnessed by	
Pw =	525 Mcf/day	Company	

* This is rate of compliance test.

** Meter run or orifice location

REMARKS OR FRICTION CALCULATIONS

	$(1-e^{-s})$	$(F_cQ)^2$	$(F_cQ)^2 (1-e^{-s})$	P_a^2 (Column 1)	P_d^2
			Projection Deliverability		

D at 250 = 350

RECEIVED
OCT 1 1965
OIL CONS. COM.
DIST. 3