

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)

72-318-01

Pool East Blanco P.C. Formation Pictured Cliffs County Rio Arriba

Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease San Juan 30-4 Well No. 20

Unit 1 Sec. 22 Twp. 30 Rge. 4 Pay Zone: From 4176 To 4450

Casing: OD 5-1/2 WT. 15.5 Set At 4512 Tubing: OD 2 WT. 4.7 T. Perf. 4421

Produced Through: Casing _____ Tubing X Gas Gravity: Measured .656 Estimated _____

Date of Flow Test: From 12/7/58 To 12/15/58 * Date S.I.P. Measured 9/10/58

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 (7.20)² x sp. const. 10 = 518 psia (g)

Corrected seven day avge. meter press. (p_f) (g) + (e) = 518 psia (h)

P_t = (h) + (f) = 518 psia (i)

Wellhead casing shut-in pressure (Dwt) 817 psig + 12 = 829 psia (j)

Wellhead tubing shut-in pressure (Dwt) 788 psig + 12 = 800 psia (k)

P_c = (j) or (k) whichever well flowed through = 800 psia (l)

Flowing Temp. (Meter Run) 62 °F + 460 = 522 °Abs (m)

P_d = 1/2 P_c = 1/2 (l) = 400 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{V(c)}{V(d)}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^n = \text{495} \text{ MCF/da}$

(integrated)

DELIVERABILITY CALCULATION

D = Q 495 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{1.3050}{1.2541} = \text{621} \text{ MCF/da.}$

$\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = \frac{480,000}{367,561}$

SUMMARY

P_c = 800 psia
Q = 495 Mcf/day
P_w = 522 psia
P_d = 400 psia
D = 621 Mcf/day

Company El Paso Natural Gas
By _____ Original Signed
Title _____ Harold L. Kendrick
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
2900	.190	21.660	4.115	268,324	272,439	522

D at 250 = 713

OK



