

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 E. Companero Formation Dakota County Rio Arriba

Purchasing Pipeline _____ Date Test Filed _____

Operator El Paso Natural Gas Lease San Juan 27-4 Unit Well No. No. 14-X (D)

Unit L Sec. 18 Twp. 27N Rge. 4W Pay Zone: From 7651 To 7931

Casing: OD 5-1/2 WT. 17.0 Set At 7944 Tubing: OD 2 WT. 4.7 T. Perf. 7859

Produced Through: Casing _____ Tubing X Gas Gravity: Measured .700 Estimated _____

Date of Flow Test: From 2/21/58 To 3/1/58 * Date S.I.P. Measured 12-4-57

Meter Run Size _____ Orifice Size .750 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 (8.20) ² x sp. const. 1000 = 672 psia (g)

Corrected seven day avge. meter press. (p_f) (g) + (e) = 672 psia (h)

P_t = (h) + (f) = 672 psia (i)

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

Wellhead tubing shut-in pressure (Dwt) 1922 psig + 12 = 1934 psia (k)

P_c = (j) or (k) whichever well flowed through = 1934 psia (l)

Flowing Temp. (Meter Run) 57 °F + 460 = 517 °Abs (m)

P_d = ½ P_c = ½ (l) = 967 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{348} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 348 $\left[\frac{(P_c^2 - P_d^2) = \underline{2805267}}{(P_c^2 - P_w^2) = \underline{3285239}} \right]^n \frac{(.8539)^{.75}}{(.8882)} = \underline{309} \text{ MCF/da.}$

SUMMARY

P_c = 1934 psia
Q = 348 Mcf/day
P_w = 675 psia
P_d = 967 psia
D = 309 Mcf/day

Company El Paso Natural Gas
By Original Signed
Title Lewis D. Galloway
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
5501	.330	10.706	3.533	451.584	455.117	675

D at 500 = 363



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