

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 San Juan

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Company Lease San Juan 32-9 Unit Well No. 27

Unit M Sec. 23 Twp. 32 Rge. 10 Pay Zone: From 5698 To 6205

Casing: OD 5½ WT. 15.5 Set At 6265 Tubing: OD 2 WT. 4.7 T. Perf. 6136

Produced Through: Casing _____ Tubing X Gas Gravity: Measured 670 Estimated _____

Date of Flow Test: From 4-22 To 4-30 * Date S.I.P. Measured 11-11-55

Meter Run Size 4 Orifice Size --- Type Chart Sq. Root 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 (7.50) ² x sp. const. 10 = 563 psia (g)

Corrected seven day avge. meter press. (p_f) (g) + (e) = 563 psia (h)

P_t = (h) + (f) = 563 psia (i)

Wellhead casing shut-in pressure (Dwt) 970 psig + 12 = 982 psia (j)

Wellhead tubing shut-in pressure (Dwt) 960 psig + 12 = 972 psia (k)

P_c = (j) or (k) whichever well flowed through = 972 psia (l)

Flowing Temp. (Meter Run) 75 °F + 460 = 535 °Abs (m)

P_d = ½ P_c = ½ (l) = 486 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{321} \text{ MCF/da}$

(integrated)

DELIVERABILITY CALCULATION

D = Q 321 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{708,588}{625,465} = 1.1329$ $\frac{1.1329}{1.0980} = 352 \text{ MCF/da.}$

SUMMARY

P_c = 972 psia
Q = 321 Mcf/day
P_w = 565 psia
P_d = 486 psia
D = 352 Mcf/day

Company El Paso Natural Gas Company
By Lewis D. Galloway
Title _____
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 R ²	P _t ² (Column i)	P _t ² + R ²	P _w
<u>4111</u>	<u>.258</u>	<u>9.108</u>	<u>2,350</u>	<u>316,969</u>	<u>319,319</u>	<u>565</u>

D @ 500 = 342



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