

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 West Kutz Formation Pictured Cliff County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Co. Lease Huerfano Unit Well No. 24
Unit M Sec. 29 Twp. 27 Rge. 10 Pay Zone: From 1732 To 1782
Casing: OD 5 1/2 WT. 14 Set At 1732 Tubing: OD 1 1/2 WT. 2.3 T. Perf. 1757
Produced Through: Casing X Tubing _____ Gas Gravity: Measured _____ Estimated _____
Date of Flow Test: From 2/21 To 2/29 * Date S.I.P. Measured 3/7/56
Meter Run Size 4 Orifice Size .750 Type Chart Sq. Rt. Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) 187 psig + 12 = 199 psia (a)
Flowing tubing pressure (Dwt) _____ psig + 12 = _____ psia (b)
Flowing meter pressure (Dwt) 186 psig + 12 = 198 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (6.52)² x spring constant 5 = 213 psia (d)
Meter error (c) - (d) or (d) - (c) ± = -15 psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing = 1 psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (6.60)² x sp. const. 5 = 218 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 203 psia (h)
P_t = (h) + (f) = 204 psia (i)
Wellhead casing shut-in pressure (Dwt) 1440 psig + 12 = 452 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through = 452 psia (l)
Flowing Temp. (Meter Run) 43 °F + 460 = 503 °Abs (m)
P_g = 1/2 P_c = 1/2 (l) = 226 psia (n)

FLOW RATE CALCULATION

Q = 171 X $\left(\frac{\sqrt{(c)} = .9296}{\sqrt{(d)} = .9642} \right)^* = \underline{165} MCF/day
(integrated)$

DELIVERABILITY CALCULATION

D = Q 165 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{157} MCF/day
 $\frac{153,228}{162,688} \cdot \frac{.9419}{.9504}$$

SUMMARY

P_c = 452 psia
Q = 165 Mcf/day
P_w = 204 psia
P_d = 226 psia
D = 157 Mcf/day
Company El Paso Natural Gas Company
By Original Signed
Title Lewis J. 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	(FcQ) ² (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
FRICTION NEGLIGIBLE						

D @ 250 = 141



