

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 Anteo Pictured Cliff Formation Pictured Cliff County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Lease Morris Well No. 8-A
Unit I Sec. 22 Twp. 30 Rge. 11 Pay Zone: From 2252 To 2300
Casing: OD 7 WT. 20 Set At 2252 Tubing: OD 1 1/4 WT. 2.3 T. Perf. 2235
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .650 Estimated _____
Date of Flow Test: From 5/23 To 5/31 * Date S.I.P. Measured 3/20/56
Meter Run Size 4 Orifice Size _____ Type Chart Sq. Rt. 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: _____ = _____ psi (f)
(b) - (c) Flow through tubing: (a) - (c) Flow through casing
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (6.5) ² x sp. const. .500 = 211 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 211 psia (h)
P_t = (h) + (f) = 211 psia (i)
Wellhead casing shut-in pressure (Dwt) 64.9 psig + 12 = 661 psia (j)
Wellhead tubing shut-in pressure (Dwt) 64.9 psig + 12 = 661 psia (k)
P_c = (j) or (k) whichever well flowed through = 661 psia (l)
Flowing Temp. (Meter Run) 64 °F + 460 = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 331 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{347}{(\text{integrated})} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = 347 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{347}{\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n} = 302 \text{ MCF/da.}$$

SUMMARY

P_c = 661 psia Company El Paso Natural Gas Company
Q = 347 Mcf/day By Original Signed
P_w = 228 psia Title Lewis D. Galloway
P_d = 331 psia Witnessed by _____
D = 302 Mcf/day 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
<u>1453</u>	<u>.100</u>	<u>72,983</u>	<u>7,298</u>	<u>44,521</u>	<u>51,819</u>	<u>228</u>

D @ 250 = 329

OK





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