

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 _____ Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Lease KPMO State Well No. 3
Unit K Sec. 12 Twp. 31N Rge. 10W Pay Zone: From 4550 To 5160
Casing: OD 5 1/2 WT. 11mm Set At 4880 Tubing: OD 2 WT. 4.7 T. Perf. 5061
Produced Through: Casing _____ Tubing 5161 X Gas Gravity: Measured .675 Estimated _____
Date of Flow Test: From 2-23-56 To 3-2-56 * Date S.I.P. Measured 2-23-56
Meter Run Size 4 Orifice Size _____ Type Chart 89, R1 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 _____ = _____ psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.00)² x sp. const. 10 = 490 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 490 psia (h)
P_t = (h) + (f) = 490 psia (i)
Wellhead casing shut-in pressure (Dwt) 925 psig + 12 = 937 psia (j)
Wellhead tubing shut-in pressure (Dwt) 925 psig + 12 = 937 psia (k)
P_c = (i) or (k) whichever well flowed through = 937 psia (l)
Flowing Temp. (Meter Run) 85 °F + 460 = 545 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 469 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{2487} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 2487 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{2977} \text{ MCF/da.}$
 $\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{658,008}{517,581}$ n $\frac{1.2713}{1.1970}$

SUMMARY

P_c = 937 psia
Q = 2487 Mcf/day
P_w = 600 psia
P_d = 469 psia
D = 2977 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

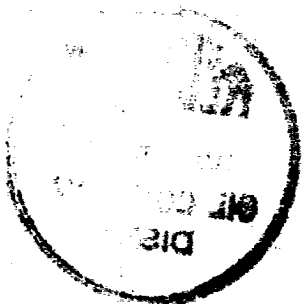
REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _c Q) ²	$\frac{(F_cQ)^2 (1-e^{-S})}{R^2}$	P _t ² (Column i)	P _t ² + R ²	P _w
<u>24.16</u>	<u>0.220</u>	<u>546.765</u>	<u>120,288</u>	<u>240,100</u>	<u>360,388</u>	<u>600</u>

D @ 500 = 2422

Q/T





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