

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 Elanco Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Lease Jones Well No. 3-A
Unit G Sec. 15 Twp. 28 Rge. 8 Pay Zone: From 4034 To 4737
Casing: OD 5 1/2 WT. 15.5 Set At 4775 Tubing: OD 2 WT. 4.7 T. Perf. 4698
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .690 Estimated _____
Date of Flow Test: From 5/16 To 5/23 * 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:
(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 (7.40) ² x sp. const. 10 _____ = 54.8 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 54.8 psia (h)
P_t = (h) + (f) _____ = 54.8 psia (i)
Wellhead casing shut-in pressure (Dwt) 1029 psig + 12 = 1041 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1028 psig + 12 = 1040 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1040 psia (l)
Flowing Temp. (Meter Run) 95 °F + 460 _____ = 555 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 520 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{Q}{(\text{integrated})} \times \left(\frac{\frac{\sqrt{(c)}}{\sqrt{(d)}}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{1986} \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \underline{1986} \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{2199} \text{ MCF/da.}$$

SUMMARY

P_c = 1040 psia
Q = 1986 Mcf/day
P_w = 611 psia
P_d = 520 psia
D = 2199 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 (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
<u>324.2</u>	<u>.210</u>	<u>348.644</u>	<u>73,215</u>	<u>300,304</u>	<u>373,519</u>	<u>611</u>

D @ 500 = 2058



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