

**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 El Paso Natural Gas Formation Permian County El Paso

Purchasing Pipeline _____ Date Test Filed _____

Operator El Paso Natural Gas Lease El Paso Well No. 9-1-58

Unit 1 Sec. 19 Twp. 33N Rge. 2E Pay Zone: From 4116 To 4100

Casing: OD 7-5/8 WT. 26.4 Set At 2330 Tubing: OD 2 WT. 4.7 T. Per. 4000

Produced Through: Casing _____ Tubing 1 Gas Gravity: Measured .600 Estimated _____

Date of Flow Test: From 2/3/58 To 2/14/58 * Date S.I.P. Measured 10-02-57

Meter Run Size _____ Orifice Size 1.500 Type Chart _____ Type Taps _____

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 (_____) ² x sp. const. 10.00 = _____ psia (g)

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

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

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

Wellhead tubing shut-in pressure (Dwt) 1077 psig + 12 = _____ psia (k)

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

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

P_d = 1/2 P_c = 1/2 (l) _____ = _____ psia (n)

FLOW RATE CALCULATION

$$Q = \frac{\int_{P_d}^{P_c} \frac{V}{P} dP}{\left(\frac{V(c)}{V(d)} = \frac{P_c}{P_d} \right)^{1/2}} = 1116 \text{ MCF/day}$$

(Integrated)

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 1116 \text{ MCF/day}$$

1116 1.00170 1.001274

SUMMARY

P _c = <u>1080</u> psia	Company <u>El Paso Natural Gas</u>
Q = <u>1116</u> Mcf/day	By <u>Original Signed</u>
P _w = <u>946</u> psia	Title <u>Louis D. Galloway</u>
P _d = <u>946</u> psia	Witnessed by _____
D = <u>1116</u> Mcf/day	Company _____

* This is date of completion test.
* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-a})	(F _c Q) ²	$\frac{(F_c Q)^2}{R^2}$	$\frac{(1-e^{-a})}{R^2}$	P _t ² (Column i)	P _c ² - P _w ²	P _w
<u>3000</u>	<u>.100</u>	<u>105.803</u>	<u>21.260</u>		<u>276.016</u>	<u>8000.000</u>	<u>946</u>

D at 900 = 1116

OK



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