

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 Astee Pictured Cliff Formation Pictured Cliff County San Juan

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Lease Ludwick Well No. 10-P

Unit A Sec. 29 Twp. 30N Rge. 10W Pay Zone: From 2703 To 2809

Casing: OD 7 WT. 20 1/2 Set At 4607 Tubing: OD 2 WT. 4.7 T. Perf. 5273

Produced Through: Casing X Tubing _____ Gas Gravity: Measured .650 Estimated _____

Date of Flow Test: From 2/20/57 To 2/20/57 * Date S.I.P. Measured 8/21/56

Meter Run Size _____ Orifice Size _____ 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:

(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 (6.95) ² x sp. const. 5 _____ = 242 psia (g)

Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 242 psia (h)

P_t = (h) + (f) _____ = 242 psia (i)

Wellhead casing shut-in pressure (Dwt) 563 psig + 12 = 575 psia (j)

Wellhead tubing shut-in pressure (Dwt) NV psig + 12 = 575 psia (k)

P_c = (j) or (k) whichever well flowed through _____ = 575 psia (l)

Flowing Temp. (Meter Run) 51 °F + 460 _____ = 288 °Abs (m)

P_d = 1/2 P_c = 1/2 (l) _____ = 288 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{\left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right)^{1/2} \times \left(\frac{V(c)}{V(d)} \right)}{\left(\frac{V(c)}{V(d)} \right)} = 291 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{1/2} = 269 \text{ MCF/da.}$$

SUMMARY

P_c = 575 psia
Q = 291 Mcf/day
P_w = 242 psia
P_d = 288 psia
D = 269 Mcf/day

Company El Paso Natural Gas Company
By Tom Grant
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
			FRICTION NEGLIGIBLE			

D @ 250 = 282

OK





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