

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 Blanco Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed _____

Operator El Paso Natural Gas Co. Lease Errett Well No. 1
Unit B M Sec. 22 Twp. 30N Rge. 10W Pay Zone: From 5020 To 5142
Casing: OD 5.5 WT. 15.5 Set At 5170 Tubing: OD 2 WT. 4.7 T. Perf. 5095
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .705 Estimated _____
Date of Flow Test: From 5/16/57 To 5/23/57 * Date S.I.P. Measured 4/12/57 (7 days)
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 7/15 _____ psig + 12 = 911 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = 911 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 911 psia (h)
P_t = (h) + (f) _____ = 944 psia (i)
Wellhead casing shut-in pressure (Dwt) 643 _____ psig + 12 = 956 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = 956 psia (k)
P_c = (j) or (k) whichever well flowed through 60 _____ = 920 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = 478 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = _____ psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \text{_____} = \text{_____}} \right)^* = \text{327} \text{ MCF/da}$
(integrated) $\sqrt{(d)} = \text{_____}$

DELIVERABILITY CALCULATION

D = Q 327 $\left[\frac{(P_c^2 - P_d^2) = \text{685,452}}{(P_c^2 - P_w^2) = \text{650,642}} \right]^n \frac{1.0535}{1.0398} = \text{340} \text{ MCF/da.}$

SUMMARY

P_c = 956 psia
Q = 327 Mcf/day
P_w = 513 psia
P_d = 478 psia
D = 340 Mcf/day

Company El Paso Natural Gas Co.
By L. B. Galloway, Sr. Gas Engr.
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
3592	.230	9.449	2,173	261,121	263,294	513

+ SIPC used for P_c as tubing was loaded with water when initial potential pressures were taken.

D 500" 327 MCF/D



THE UNIVERSITY OF CHICAGO
LIBRARY

1000 N. EAST 58TH ST. CHICAGO, ILL. 60630
TEL. 773-936-5000

