

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 Alamco Formation Mesa Verde County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Company Lease San Juan 28-7 Unit Well No. 58
Unit K Sec. 29 Twp. 28 Rge. 7 Pay Zone: From 4397 To 5076
Casing: OD 5 1/2 WT. 15.5 Set At 5109 Tubing: OD 2 WT. 4.7 T. Perf. 5057
Produced Through: Casing _____ Tubing K Gas Gravity: Measured 710 Estimated _____
Date of Flow Test: From 10/9/56 To 10/17/56 * Date S.I.P. Measured 6/19/56
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 (7.25)² x sp. const. 10 _____ = 526 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 526 psia (h)
P_t = (h) + (f) _____ = 526 psia (i)
Wellhead casing shut-in pressure (Dwt) 1065 psig + 12 = 1077 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1063 psig + 12 = 1075 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1075 psia (l)
Flowing Temp. (Meter Run) 80 °F + 460 _____ = 540 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 538 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{1}{\left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right)^{1/n}} \times \left(\frac{V(c)}{V(d)} \right)^{1/2} = 976 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 976 \left[\frac{1075^2 - 538^2}{1075^2 - 544^2} \right]^{1.0076} = 982 \text{ MCF/da.}$$

SUMMARY

P_c = 1075 psia
Q = 976 Mcf/day
P_w = 544 psia
P_d = 538 psia
D = 982 Mcf/day

Company El Paso Natural Gas Company
By L. S. Hallaway
Title _____
Witnessed by _____
Company _____

- * This is date of completion test. 10/10
- * 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
3590	.230	84.199	19,366	276,676	286,642	544

D @ 500 = 988



Legislative Committee on Finance

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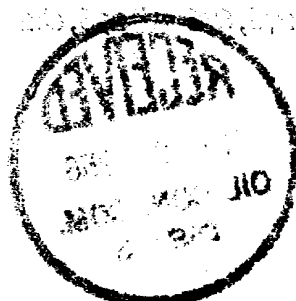
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