

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 Rio Arriba

Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease San Juan 29-7 Unit Well No. 54

Unit M Sec. 14 Twp. 29 Rge. 7 Pay Zone: From 4768 To 5366

Casing: OD 5 WT. 11.5 Set At 5430 Tubing: OD 2 WT. 4.7 T. Perf. 5250

Produced Through: Casing _____ Tubing X Gas Gravity: Measured .700 Estimated _____

Date of Flow Test: From 7/9/57 To 7/17/57 * Date S.I.P. Measured 2/12/57

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 (7.20)² x sp. const. 10 = 518 psia (g)

Corrected seven day avge. meter press. (p_f) (g) + (e) = 518 psia (h)

P_t = (h) + (f) = 518 psia (i)

Wellhead casing shut-in pressure (Dwt) 1113 psig + 12 = 1125 psia (j)

Wellhead tubing shut-in pressure (Dwt) 1107 psig + 12 = 1119 psia (k)

P_c = (j) or (k) whichever well flowed through = 1119 psia (l)

Flowing Temp. (Meter Run) 60 °F + 460 = 520 °Abs (m)

P_d = ½ F_c = ½ (l) = 560 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{1597} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 1597 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{1.0082}{1.0061} = \text{1607} \text{ MCF/da.}$

SUMMARY

P_c = 1119 psia
Q = 1597 Mcf/day
P_w = 567 psia
P_d = 560 psia
D = 1607 Mcf/day

Company El Paso Natural Gas Company
By [Signature]
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 DIST. 3	P _w
3675	.235	225.450	52.981	268,324	321,305	567

D at 500 = 1604

