

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 South Blanco Formation Pictured Cliff County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Rincon Unit Well No. 71
Unit J Sec. 28 Twp. 27 Rge. 7 Pay Zone: From 2967 To 3003
Casing: OD 5-1/2 WT. 15.5 Set At 3050 Tubing: OD 1-1/4 WT. 2.3 T. Perf. 2954
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .660 Estimated _____
Date of Flow Test: From 9/22 To 9/30/57 * Date S.I.P. Measured 1/17/57
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 (7.40) ² x sp. const. .5 _____ = 274 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 274 psia (h)
P_t = (h) + (f) _____ = 274 psia (i)
Wellhead casing shut-in pressure (Dwt) 805 psig + 12 = 817 psia (j)
Wellhead tubing shut-in pressure (Dwt) 805 psig + 12 = 817 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 817 psia (l)
Flowing Temp. (Meter Run) 63 °F + 460 _____ = 523 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 409 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{400}$ MCF/day
(Integrated)

DELIVERABILITY CALCULATION

D = Q 400 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{353}$ MCF/day
 $\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{500,208}{579,611}$ $\frac{.8630}{.8823}$

SUMMARY

P_c = 817 psia
Q = 400 Mcf/day
P_w = 296 psia
P_d = 409 psia
D = 353 Mcf/day

Company El Paso Natural Gas
By Original Signed
Title _____
Witnessed by Lewis D. Galloway
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 1)	P _t ² + R ²	P _w
1950	.132	96.983	12,802	75,076	87,878	296

D at 250 = 404

OK

