

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)

South Blanco

Pictured Cliff

Rio Arriba

Pool _____ Formation _____ County _____
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Co. Lease Rincon Well No. 41
Unit A Sec. 35 Twp. 27 Rge. 7 Pay Zone: From 3057 To 3123
Casing: OD 5 1/2 WT. 15.5 Set At 3048 Tubing: OD 1 WT. 1.68 T. Perf. 3094
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .670 Estimated _____
Date of Flow Test: From 11/9 To 11/17 * Date S.I.P. Measured 6/17/55
Meter Run Size 4 Orifice Size 1.500 Type Chart Sq. Rt. Type Taps Flange

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 (6.80)² x sp. const. 5 _____ = 231 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 231 psia (h)
P_t = (h) + (f) _____ = 231 psia (i)
Wellhead casing shut-in pressure (Dwt) 976 psig + 12 = 988 psia (j)
Wellhead tubing shut-in pressure (Dwt) 976 psig + 12 = 988 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 988 psia (l)
Flowing Temp. (Meter Run) 41 °F + 460 _____ = 501 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 494 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{169}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 169 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{140}$ MCF/da.
 $\frac{732,108}{912,625}$ $\frac{.8022}{.8292}$

SUMMARY

P_c = 988 psia
Q = 169 Mcf/day
P_w = 252 psia
P_d = 494 psia
D = 140 Mcf/day

Company El Paso Natural Gas Company
By Original Signed
Title Lewis D. Galloway
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
<u>2073</u>	<u>.140</u>	<u>72.556</u>	<u>10,158</u>	<u>53,361</u>	<u>63,519</u>	<u>252</u>

D @ 250 = 167

OK

