

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

Operator El Paso Natural Gas Co. Lease San Juan 30-4 Unit Well No. 8
Unit P Sec. 16 Twp. 30 Rge. 4 Pay Zone: From 4351 To 4412
Casing: OD 7 WT. 20 Set At 4351 Tubing: OD 2 WT. 4.7 T. Perf. 4324
Produced Through: Casing _____ Tubing X Gas Gravity: Measured _____ Estimated .670
Date of Flow Test: From 12/23 To 12/31 * Date S.I.P. Measured 6/29/55
Meter Run Size 4 Orifice Size _____ 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: _____ = _____ psi (f)
(b) - (c) Flow through tubing: (a) - (c) Flow through casing
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.70) ² x sp. const. 10 = 593 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 593 psia (h)
P_t = (h) + (f) = 593 psia (i)
Wellhead casing shut-in pressure (Dwt) 1171 psig + 12 = 1183 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1171 psig + 12 = 1183 psia (k)
P_c = (j) or (k) whichever well flowed through = 1183 psia (l)
Flowing Temp. (Meter Run) 85 °F + 460 = 545 °Abs (m)
P_d = ½ P_c = ½ (l) = 592 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{4854} \text{ MCF/day}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 4854 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{7266} \text{ MCF/day}$
 $\frac{1,049,025}{652,120} \cdot \frac{1.6086}{1.4970}$

SUMMARY

P_c = 1183 psia
Q = 4854 Mcf/day
P_w = 865 psia
P_d = 592 psia
D = 7266 Mcf/day

Company El Paso Natural Gas Company
By Original Signed
Title Lewis D. Galloway
Witnessed by _____
Company _____

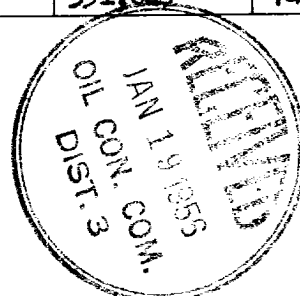
* This is date of completion test.
* Meter error correction factor

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>2897</u>	<u>.190</u>	<u>2082.736</u>	<u>395,720</u>	<u>351,649</u>	<u>747,369</u>	<u>865</u>

D @ 250 = 5949

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