

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 Wildcat Formation Pictured Cliff County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Company Lease San Juan 30-4 Well No. 5
Unit L Sec. 9 Twp. 30N Rge. 4W Pay Zone: From 4223 To 4290
Casing: OD 7 WT. 20 & 23 Set At 4223 Tubing: OD 1 1/4 WT. 2.4 T. Perf. 4255
Produced Through: Casing _____ Tubing X Gas Gravity: Measured _____ Estimated 620
Date of Flow Test: From Jan. 8 To Jan. 16 * Date S.I.P. Measured August 10, 1955
Meter Run Size 4 Orifice Size _____ Type Chart Sq. Root 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 (7.95) ² x sp. const. 1000 = 632 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 632 psia (h)
P_t = (h) + (f) = 632 psia (i)
Wellhead casing shut-in pressure (Dwt) 1188 psig + 12 = 1200 psia (j)
Wellhead tubing shut-in pressure (Dwt) 737 psig + 12 = 749 psia (k)
P_c = (j) or (k) whichever well flowed through = 1200 psia (l)
Flowing Temp. (Meter Run) 47 °F + 460 = _____ °Abs (m)
P_d = ½ P_c = ½ (l) = 600 psia (n)

FLOW RATE CALCULATION

Q = 129 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* =$ _____ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 129 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{1.0397}{1.0336} =$ 133 MCF/da.

SUMMARY

P_c = 1200 psia
Q = 129 Mcf/day
P_w = 633 psia
P_d = 600 psia
D = 133 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

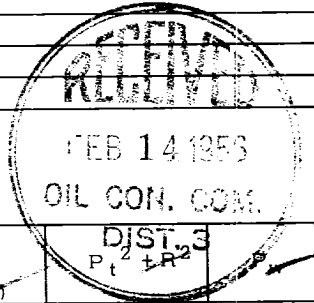
REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _c Q) ²	(F _c Q) ² (1-e ^{-S}) R ²	P _t ² (Column 4)	DIST. P _t ² + R ²	
<u>2638</u>	<u>.175</u>	<u>10.087</u>	<u>1765</u>	<u>399,424</u>	<u>401,189</u>	<u>633</u>

Tubing shut-in pressure erratic. Used casing pressure for P_c.

D @ 250 = 163

OK



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