

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 El Paso Natural Gas Company Formation San Juan 28-7 Unit County El Paso
Purchasing Pipeline _____ Date Test Filed _____

Operator El Paso Natural Gas Co. Lease San Juan 28-7 Unit Well No. 25
Unit L Sec. 1 Twp. 27 Rge. 7 Pay Zone: From 4440 To 5300
Casing: OD 7 WT. 20 Set At 4400 Tubing: OD 2 WT. 4.7 T. Perf. 5048
Produced Through: Casing _____ Tubing X Gas Gravity: Measured _____ Estimated .605
Date of Flow Test: From 12/23 To 12/31 * Date S.I.P. Measured 8/9/55
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:
(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 (7.75)² x sp. const. 10 _____ = 601 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 601 psia (h)
P_t = (h) + (f) _____ = 601 psia (i)
Wellhead casing shut-in pressure (Dwt) 1096 psig + 12 = 1096 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1084 psig + 12 = 1084 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1084 psia (l)
Flowing Temp. (Meter Run) 59 °F + 460 _____ = 519 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 542 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \underline{524}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 524 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{555}$ MCF/da.
 $\frac{1.0794}{1.0589}$

SUMMARY

P_c = 1096 psia
Q = 524 Mcf/day
P_w = 605 psia
P_d = 548 psia
D = 555 Mcf/day

Company El Paso Natural Gas Company
By Original Signed
Title Louis 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})	P _t ²	P _t ² + R ²	P _w
			R ²	(Column i)		
<u>3458</u>	<u>.222</u>	<u>24,275</u>	<u>5,389</u>	<u>361,201</u>	<u>366,590</u>	<u>605</u>

D @ 500 = 570

OK

