

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 Blanco Formation Mesa Verde County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Co. Lease San Juan 28-6 Unit Well No. 42
Unit L Sec. 34 Twp. 28 Rge. 6 Pay Zone: From 5092 To 5777
Casing: OD 5 1/2 WT. 15.5 Set At 5790 Tubing: OD 2 WT. 4.7 T. Perf. 5656
Produced Through: Casing _____ Tubing X Gas Gravity: Measured _____ Estimated .680
Date of Flow Test: From 2/21 To 2/29 * Date S.I.P. Measured 12/20/55
Meter Run Size 4 Orifice Size _____ Type Chart 89. 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 (8.10) ² x sp. const. 10 _____ = 656 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 656 psia (h)
P_t = (h) + (f) _____ = 656 psia (i)
Wellhead casing shut-in pressure (Dwt) 1069 psig + 12 = 1081 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1067 psig + 12 = 1079 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1079 psia (l)
Flowing Temp. (Meter Run) 54 °F + 460 _____ = 514 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 540 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{511} \text{ MCF/day}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 511 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{872,641}{728,274} \cdot \frac{1.1982}{1.1453} = \text{585} \text{ MCF/day}$

SUMMARY

P_c = 1079 psia
Q = 511 Mcf/day
P_w = 660 psia
P_d = 540 psia
D = 585 Mcf/day

Company El Paso Natural Gas Company
By _____
Title Original Signed
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 i)	P _t ² + R ²	P _w
<u>3846</u>	<u>.244</u>	<u>23.078</u>	<u>5,631</u>	<u>430,336</u>	<u>435,967</u>	<u>660</u>

D @ 500 = 596



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AZTEC DISTRICT OFFICE

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