

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 Mesa Verde Formation Mesa Verde County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Company Lease San Juan 28-7 Well No. 21
Unit N Sec. 9 Twp. 28N Rge. 7W Pay Zone: From 4988 To 5108
Casing: OD 5 1/2 WT. 15.5 Set At 5665 Tubing: OD 2 WT. 4.7 T. Perf. 5559
Liner
Produced Through: Casing _____ Tubing X Gas Gravity: Measured _____ Estimated 705
Date of Flow Test: From Jan. 16 To Jan. 23 * Date S.I.P. Measured 12-12-55
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:
(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 (7.35) ² x sp. const. 1000 = 540 psia (g)
Corrected seven day avge. meter press. (pf) (g) + (e) _____ = 540 psia (h)
_____ = 540 psia (i)
 $P_t = (h) + (f)$ _____
Wellhead casing shut-in pressure (Dwt) 1069 psig + 12 = 1081 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1063 psig + 12 = 1075 psia (k)
 $P_c = (j) \text{ or } (k) \text{ whichever well flowed through}$ _____ = 1075 psia (l)
Flowing Temp. (Meter Run) 69 °F + 460 _____ = 529 °Abs (m)
 $P_d = \frac{1}{2} P_c = \frac{1}{2} (l)$ _____ = 538 psia (n)

Q = 1948 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(d)}} \right)^* = \underline{1948} MCF/da
(integrated)$

DELIVERABILITY CALCULATION

D = Q 1948 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \frac{1.1093}{1.0809} = \underline{2106} MCF/da.$

SUMMARY

$P_c =$ 1075 psia
 $Q =$ 1948 Mcf/day
 $P_w =$ 612 psia
 $P_d =$ 538 psia
D = 2106 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})	P _t ²	P _t ² + R ²	P _w
			R ²	(Column i)		
<u>3919</u>	<u>.248</u>	<u>335.439</u>	<u>83,189</u>	<u>291,600</u>	<u>374,789</u>	<u>612</u>

D @ 500 = 1997



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