

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 San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Lease Newberry Well No. 7
Unit M Sec. SW4 Twp. 31N Rge. 12W Pay Zone: From 4779 To 4760
Casing: OD 5 1/2 WT. 15.50 Set At 5073 Tubing: OD 2 WT. 4.7 T. Perf. 4847
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .710 Estimated _____
Date of Flow Test: From 6/22 To 6/30 * Date S.I.P. Measured 5/3/56
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 (7.55)² x sp. const. 10 _____ = 570 psia (g)
Corrected seven day avge. meter press. (pf) (g) + (e) _____ = 570 psia (h)
P_t = (h) + (f) _____ = 570 psia (i)
Wellhead casing shut-in pressure (Dwt) 1055 psig + 12 = 1067 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1055 psig + 12 = 1067 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1067 psia (l)
Flowing Temp. (Meter Run) 82 °F + 460 _____ = 542 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 534 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\sqrt{(d)}}{\sqrt{(d)}} \right)^* = \underline{1211} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 1211 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{1.0871}{1.0646} = \underline{1289} \text{ MCF/da.}$
853,333
784,938

SUMMARY

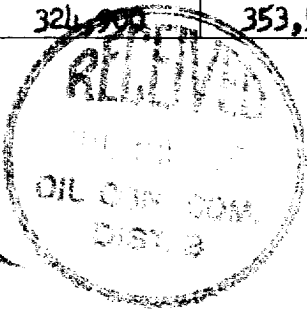
P_c = 1067 psia
Q = 1211 Mcf/day
P_w = 595 psia
P_d = 534 psia
D = 1289 Mcf/day
Company El Paso Natural Gas Company
By Lewis D. Galloway
Title _____
Witnessed by _____
Company _____

* 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>3441</u>	<u>.221</u>	<u>129.641</u>	<u>28.651</u>	<u>324,000</u>	<u>353,551</u>	<u>595</u>

D @ 500 = 1280



U.S. DEPARTMENT OF THE INTERIOR
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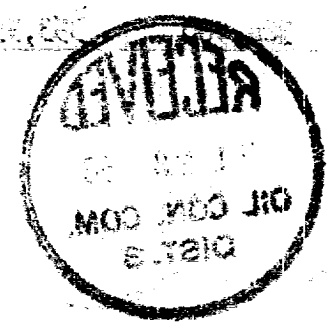
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