

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 Lease San Juan 28-6 Well No. 18
Unit N Sec. 24 Twp. 28N Rge. 6W Pay Zone: From 5001 To 5804
Casing: OD 7 WT. 20 Set At 5067 Tubing: OD 2 WT. 4.7 T. Perf. 5737
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .705 Estimated _____
Date of Flow Test: From 5/31 To 6/8 * Date S.I.P. Measured 12/6/54
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. 1000 = 570 psia (g)
Corrected seven day ave. meter press. (p_f) (g) + (e) _____ = 570 psia (h)
P_t = (h) + (f) _____ = 570 psia (i)
Wellhead casing shut-in pressure (Dwt) 1091 psig + 12 = 1103 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1083 psig + 12 = 1095 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1095 psia (l)
Flowing Temp. (Meter Run) 77 °F + 460 _____ = _____ ° Abs (m)
P_d = ½ P_c = ½ (l) _____ = 548 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{V(c)}}{\sqrt{V(d)}} \right)^2 =$ _____ MCF/day
(integrated)

DELIVERABILITY CALCULATION

D = Q 507 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{898,721}{868,330} \times \frac{1.0350}{1.02615} =$ 520 MCF/day.

SUMMARY

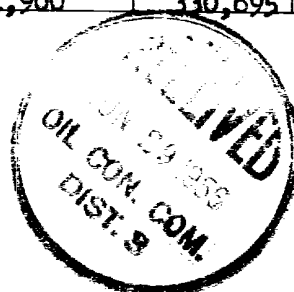
P_c = 1095 psia Company El Paso Natural Gas Company
Q = 507 Mcf/day By Original Signed
P_w = 570 psia Title _____
P_d = 548 psia Witnessed by Lewis D. Galloway
D = 520 Mcf/day Company _____

- * 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>4045</u>	<u>.255</u>	<u>22.724</u>	<u>5.795</u>	<u>324,900</u>	<u>330,695</u>	<u>575</u>

D @ 500 = 534



OIL CONSERVATION COMMISSION

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