

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 27-4 Well No. 4
Unit A Sec. 31 Twp. 27N Rge. 4W Pay Zone: From 5362 To 5960
Casing: OD 7 WT. 20 Set At 5285 Tubing: OD 2 WT. 4.7 T. Perf. 5875
Produced Through: Casing _____ Tubing I Gas Gravity: Measured .690 Estimated _____
Date of Flow Test: From 5/11 To 6/8 * Date S.I.P. Measured 11/24/53
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 (7.30) ² x sp. const. 1000 _____ = 533 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 533 psia (h)
P_t = (h) + (f) _____ = 533 psia (i)
Wellhead casing shut-in pressure (Dwt) 585 psig + 12 = 597 psia (j)
Wellhead tubing shut-in pressure (Dwt) 671 psig + 12 = 683 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 683 psia (l)
Flowing Temp. (Meter Run) 68 °F + 460 _____ = _____ °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 342 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{_____ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \text{ } 27 \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{1.9163}{1.628} = 1.17 \text{ MCF/da.}$$

SUMMARY

P_c = 683 psia Company El Paso Natural Gas Company
Q = 27 Mcf/day By Original Signed
P_w = 533 psia Title Lewis D. Galloway
P_d = 342 psia Witnessed by _____
D = 1.17 Mcf/day Company _____

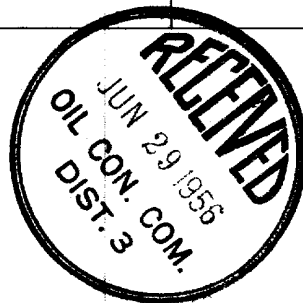
* This is date of completion test.
* Meter error correction factor

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

FRICTION NEGLIGIBLE

D @ 500 = 29



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