

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 San Juan
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed _____

Operator El Paso Natural Gas Lease Newberry Well No. 4
Unit M Sec. 9 Twp. 31N Rge. 12W Pay Zone: From 4818 To 5084
Casing: OD 7 5/8 WT. 20 & 23 Set At 4720 Tubing: OD 2 WT. 4.7 T. Perf. 5001
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .710 Estimated _____
Date of Flow Test: From 7/16 To 7/23/56 * Date S.I.P. Measured 3/26/56
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 (7.50) ² x sp. const. 10 = 563 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 563 psia (h)
P_t = (h) + (f) = 563 psia (i)
Wellhead casing shut-in pressure (Dwt) 1045 psig + 12 = 1057 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1047 psig + 12 = 1059 psia (k)
P_c = (j) or (k) whichever well flowed through = 1059 psia (l)
Flowing Temp. (Meter Run) 68 °F + 460 = 548 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 530 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \underline{2137} MCF/da
(integrated)$

DELIVERABILITY CALCULATION

D = Q 2137 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{840,581}{712,471} \right]^n \frac{1.1798}{1.1321} = \underline{2419} MCF/da.$

SUMMARY

P_c = 1059 psia
Q = 2137 Mcf/day
P_w = 640 psia
P_d = 530 psia
D = 2419 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}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
3551	.228	403.688	92,041	316,969	409,010	640

D @ 500 = 2245



100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

