

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)

72-024-01

Pool Danco Formation Mesa Verde County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____
Operator El Paso Natural Gas Lease Barron Kidd Well No. 7
Unit II Sec. 21 Twp. 30 Rge. 6 Pay Zone: From 5274 To 5754
Casing: OD 5-1/2 WT. 15.5 Set At 5825 Tubing: OD 2" WT. 4.7 T. Perf. 5706
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 623 Estimated _____
Date of Flow Test: From 5/30/58 To 6/7/58 * Date S.I.P. Measured 1/13/53
Meter Run Size _____ Orifice Size _____ Type Chart _____ Type Taps _____

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 (7.10)² x sp. const. 10 _____ = 504 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 504 psia (h)
P_t = (h) + (f) _____ = 504 psia (i)
Wellhead casing shut-in pressure (Dwt) 1040 psig + 12 = 1052 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1037 psig + 12 = 1049 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1049 psia (l)
Flowing Temp. (Meter Run) 79 °F + 460 _____ = 539 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 525 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \text{_____} = \text{_____} = \text{_____} = \text{2050 MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \text{ 2050 } \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = \frac{324,776}{741,314} \text{ }^n \frac{1.0833}{1.0818} = \text{2177 MCF/da.}$$

SUMMARY

P_c = 1049 psia
Q = 2050 Mcf/day
P_w = 582 psia
P_d = 525 psia
D = 2177 Mcf/day
Company El Paso Natural Gas
By Original Signed
Title Harold L. Kendrick
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 R ²	(1-e ^{-s})	P _t ² (Column i)	P _t ² + R ²	P _w
3539	.229	371.437	85,071		254,016	339,087	582

D at 500 = 2035

