

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 Elanco Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Lease McCulley Well No. 2 (M)
Unit L Sec. 14 Twp. 28 Rge. 9 Pay Zone: From 1512 To 4630
Casing: OD 5-1/2 WT. 15.5 Set At 4631 Tubing: OD 2 WT. 4.7 T. Perf. 4580
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .735 Estimated _____
Date of Flow Test: From 8/23 To 8/31 * Date S.I.P. Measured 4/3/57
Meter Run Size 4 Orifice Size 1.250 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 (7.00) ² x sp. const. 10 _____ = 490 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 490 psia (h)
P_t = (h) - (f) _____ = 490 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1023 psig + 12 = 1035 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1035 psia (l)
Flowing Temp. (Meter Run) 34 °F -- 460 _____ = 524 °Abs (m)
P_c = ½ P_c = ½ (l) _____ = 518 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{1123} \text{ MCF/day}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 1123 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = \frac{802,901}{806,936} = .9949$ $\frac{1119}{.9962} = \underline{1119} \text{ MCF/day}$

SUMMARY

P_c = 1035 psia
Q = 1123 Mcf/day
P_w = 514 psia
P_d = 518 psia
D = 1119 Mcf/day

Company El Paso Natural Gas
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
3336	.217	111.471	24,189	240,100	264,289	514

D AT 500 = 1101

