

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)

72-197

Pool Alamogordo Formation Mesa Verde County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Rincon Unit Well No. 123
Unit M Sec. 13 Twp. 27 Rge. 7 Pay Zone: From 4950 To 5556
Casing: OD 5-1/2 WT. 15.5 Set At 5717 Tubing: OD 2 WT. 4.7 T. Perf. 5569
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .715 Estimated _____
Date of Flow Test: From 8/30/58 To 9/7/58 * Date S.I.P. Measured 5/19/58
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 (6.85) ² x sp. const. 10 _____ = 469 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 469 psia (h)
P_t = (h) + (f) _____ = 469 psia (i)
Wellhead casing shut-in pressure (Dwt) 1110 psig + 12 = 1122 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1098 psig + 12 = 1110 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1110 psia (l)
Flowing Temp. (Meter Run) 78 °F + 460 _____ = 538 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 555 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{454} \text{ MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 454 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{924,075}{1,077,565} \cdot \frac{.9171}{.9372} = \text{425} \text{ MCF/da.}$

SUMMARY

P_c = 1110 psia
Q = 454 Mcf/day
P_w = 474 psia
P_d = 555 psia
D = 425 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 (1-e ^{-S}) R ²	P _t ² (Column l)	P _t ² + R ²	P _w
3982	.251	18.224	4,574	219,961	224,535	474

D at 512 = 440

