

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)

72-209

Pool South Elanco Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Rincon Well No. 112
Unit 0 Sec. 20 Twp. 27 Rge. 6 Pay Zone: From 3170 To 3214
Casing: OD 5-1/2 WT. 15.5 Set At 3285 Tubing: OD 1-1/4 WT. 2.4 T. Perf. 3181
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .676 Estimated _____
Date of Flow Test: From 9/7/58 To 9/13/58 * Date S.I.P. Measured 5/21/58
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. 5 _____ = 235 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 235 psia (h)
P_t = (h) + (f) _____ = 235 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ 1073 psig + 12 = 1085 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ 1072 psig + 12 = 1084 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1084 psia (l)
Flowing Temp. (Meter Run) _____ 63 °F + 460 _____ = 503 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 542 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \underline{291} \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \underline{291} \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{\underline{681,292}}{\underline{1,112,389}} \cdot \frac{\underline{.7922}}{\underline{.8208}} = \underline{239} \text{ MCF/da.}$$

SUMMARY

P_c = 1084 psia
Q = 291 Mcf/day
P_w = 250 psia
P_d = 542 psia
D = 239 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 i)	P _t ² + R ²	P _w
2150	.145	51.323	7.442	55,225	62,667	250

B at 250 = 288

