

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)

72-064-01

Pool Undesignated Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Riddle Well No. 4-F (P)
Unit B Sec. 29 Twp. 28 Rge. 8 Pay Zone: From 2160 To 2220
Casing: OD 7-5/8 WT. 26.4 Set At 2374 Tubing: OD 1-1/4 WT. 2.4 T. Perf. 2208
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 654 Estimated _____
Date of Flow Test: From 4/29/58 To 5/7/58 * Date S.I.P. Measured 1/31/58
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 (7.65)² x sp. const. 5 _____ = 293 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 293 psia (h)
P_t = (h) + (f) _____ = 293 psia (i)
Wellhead casing shut-in pressure (Dwt) 858 psig + 12 = 870 psia (j)
Wellhead tubing shut-in pressure (Dwt) 858 psig + 12 = 870 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 870 psia (l)
Flowing Temp. (Meter Run) 62 °F + 460 _____ = 522 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 435 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{292} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 292 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{567,675}{665,883} \cdot \frac{.8525}{.8730} = \text{255} \text{ MCF/da.}$

SUMMARY

P_c = 870 psia
Q = 292 Mcf/day
P_w = 302 psia
P_d = 435 psia
D = 255 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	$\frac{(F_c Q)^2 (1-e^{-s})}{R^2}$	P _t ² (Column i)	P _t ² + R ²	P _w
1444	.100	51.682	5,168	85,849	91,017	302

D at 250 = 298

