

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)

72-169

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

Operator El Paso Natural Gas Lease San Juan 27-5 Unit Well No. 37 (P)
Unit A Sec. 20 Twp. 27 Rge. 5 Pay Zone: From 2309 To 2807
Casing: OD 7-5/8 WT. 26.4 Set At 3435 Tubing: OD 1-1/4 WT. 2.4 T. Perf. 3312
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .627 Estimated _____
Date of Flow Test: From 9/29/58 To 10/7/58 * Date S.I.P. Measured 6/10/58
Meter Run Size _____ Orifice Size .500 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 (7.30) ² x sp. const. 10 _____ = 933 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 933 psia (h)
P_t = (h) + (f) _____ = 933 psia (i)
Wellhead casing shut-in pressure (Dwt) 1094 psig + 12 = 1106 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1094 psig + 12 = 1106 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1106 psia (l)
Flowing Temp. (Meter Run) 80 °F + 460 _____ = 940 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 933 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \underline{149} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 149 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{927427}{939147} \times \frac{9768}{9802} = \underline{146} \text{ MCF/da.}$

SUMMARY

P_c = 1106 psia
Q = 149 Mcf/day
P_w = 933 psia
P_d = 933 psia
D = 146 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
			Friction Negligible			

D at 250 = 178

OK



X