

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 South Blance Formation Pictured Cliff County Rio Arriba
Purchasing Pipeline EL PASO NATURAL GAS COMPANY Date Test Filed _____

Operator El Paso Natural Gas Company Lease Rincon Well No. 117
Unit I Sec. 21 Twp. 27 Rge. 6 Pay Zone: From 5130 To 5174
Casing: OD 5-1/2 WT. 15-1/2 Set At 3218 Tubing: OD 1-1/4 WT. 2.3 T. Perf. 5135
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 720 Estimated _____
Date of Flow Test: From 10-15 To 10-22-58 * Date S.I.P. Measured 6-17-58 (25)
Meter Run Size _____ Orifice Size 1.250 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 avg. meter press. (p_f) (g) + (e) _____ = 235 psia (h)
P_t = (h) + (f) _____ = 235 psia (i)
Wellhead casing shut-in pressure (Dwt) 1052 psig + 12 = 1064 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1052 psig + 12 = 1064 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1064 psia (l)
Flowing Temp. (Meter Run) _____ 60 °F + 460 _____ = 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 532 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(Integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \frac{420}{1} = 420 \text{ MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \times \left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = 420 \times \left[\frac{849072}{1050513} \right]^{.8006 / .8278} = 348 \text{ MCF/day}$$

SUMMARY

P_c = 1064 psia
Q = 420 Mcf/day
P_w = 268 psia
P_d = 532 psia
D = 348 Mcf/day

Company EL PASO NATURAL GAS COMPANY
By _____
Title Original Signed
Witnessed by Harold L. Kendrick
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
2285	.153	106.916	16.12	55,225	55,225	268

D250 = 416

