

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)

72-291

Pool South Blanco Formation Pictured Cliffs County Rio Arriba

Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Southern Pet., State Well No. 3

Unit C Sec. 32 Twp. 26 Rge. 6 Pay Zone: From 2340 To 2384

Casing: OD 5.50 WT. 15.50 Set At 2419 Tubing: OD 1.25 WT. 2.4 T. Perf. 2321

Produced Through: Casing _____ Tubing X Gas Gravity: Measured .648 Estimated _____

Date of Flow Test: From 12-30-58 To 1-7-59 * Date S.I.P. Measured 10-23-58 (76 days)

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 (7.15) ² x sp. const. 5 = 256 psia (g)

Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 256 psia (h)

_____ = 256 psia (i)

P_t = (h) + (f)

Wellhead casing shut-in pressure (Dwt) 844 psig + 12 = 856 psia (j)

Wellhead tubing shut-in pressure (Dwt) 844 psig + 12 = 856 psia (k)

P_c = (j) or (k) whichever well flowed through _____ = 856 psia (l)

Flowing Temp. (Meter Run) 59 °F + 460 _____ = 519 °Abs (m)

P_d = ½ P_c = ½ (l) _____ = 428 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{1154} \text{ MCF/day}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 1154 $\left[\frac{(P_c^2 - P_d^2) = \underline{549,552}}{(P_c^2 - P_w^2) = \underline{583,253}} \right]^n \frac{.9421}{.9506} = \underline{1097} \text{ MCF/day.}$

CORRECTED COPY

SUMMARY

P_c = 856 psia
Q = 1154 Mcf/day
P_w = 388 387 psia
P_d = 428 psia
D = 1097 Mcf/day

Company El Paso Natural Gas
By _____ Original Signed
Title _____
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
<u>1504</u>	<u>.104</u>	<u>807.185</u>	<u>83.947</u>	<u>65,536</u>	<u>149,483</u>	<u>387</u>

D at 250 = 1149

OK



