

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 Blanco Formation Pictured Cliff County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Co. Lease Schwerdtfeger Well No. 6-A
Unit D Sec. 8 Twp. 27N Rge. 8W Pay Zone: From 2225 To 2285
Casing: OD 7 WT. 20 Set At 2226 Tubing: OD 1 1/4 WT. 2.4 T. Perf. 2252
Produced Through: Casing _____ Tubing X Gas Gravity: Measured _____ Estimated .650
Date of Flow Test: From 1/8/56 To 1/16/56 * Date S.I.P. Measured 10/31/55
Meter Run Size 1" Orifice Size _____ Type Chart Sq. Rt. Type Taps Flange

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 (7.80) ² x sp. const. 5 _____ = 304 psia (g)
Corrected seven day avge. meter press. (P_f) (g) + (e) _____ = 304 psia (h)
P_t = (h) + (f) _____ = 304 psia (i)
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) 56 °F + 460 _____ = 516 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 428 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \dots = \dots} \right)^* = \underline{358} \text{ MCF/da}$
(integrated) $\sqrt{(d)} = \dots$

DELIVERABILITY CALCULATION

D = Q 358 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{549,552}{632,474} \right]^n \frac{.8689}{.8872} = \underline{318} \text{ MCF/da.}$

SUMMARY

P_c = 856 psia
Q = 358 Mcf/day
P_w = 317 psia
P_d = 428 psia
D = 318 Mcf/day

Company El Paso Natural Gas Company
By Original Signed
Title Lewis D. Galloway
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>1464</u>	<u>.101</u>	<u>77.687</u>	<u>7.846</u>	<u>92,416</u>	<u>100,262</u>	<u>317</u>

D @ 250 = 369

