

Initial Deliverability
Test

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 El Paso Formation El Paso County El Paso
Purchasing Pipeline Pacific Northwest Date Test Filed _____

Operator El Paso Natural Gas Lease San Juan 25-3 Unit Well No. 25
Unit A Sec. 24 Twp. 25 Rge. 3 Pay Zone: From 2372 To 2386
Casing: OD 5-1/2 WT. 15.5 Set At 2385 Tubing: OD 2 WT. 4.7 T. Perf. 2385
Produced Through: Casing _____ Tubing I Gas Gravity: Measured .690 Estimated _____
Date of Flow Test: From 7/31 To 8/3/57 * Date S.I.P. Measured 4/2/57
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 (7.09) ² x sp. const. 10 _____ = 903 psia (g)
Corrected seven day avge. meter press. (P_f) (g) + (e) _____ = 903 psia (h)
P_t = (h) + (f) _____ = 903 psia (i)
Wellhead casing shut-in pressure (Dwt) 1180 psig + 12 = 1192 psia (j)
Wellhead tubing shut-in pressure (Dwt) 456 psig + 12 = 468 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1192 psia (l)
Flowing Temp. (Meter Run) 74 °F + 460 _____ = 534 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 576 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{V(c)}{V(d)}} \right) = \underline{458} \text{ MCF/day}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 458 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{458} \text{ MCF/day}$
 $\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{1,009,000}{1,009,000}$ $n = \frac{.9303}{.9474}$

SUMMARY

+ Tubing loaded with water; therefore, SIFC used for P
P_c = 1192 psia
Q = 458 Mcf/day
P_w = 908 psia
P_d = 576 psia
D = 458 Mcf/day

Company El Paso Natural Gas
By _____
Title _____
Witnessed by Lewis D. Galloway
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>3006</u>	<u>.842</u>	<u>18.942</u>	<u>4467</u>	<u>233,009</u>	<u>237,496</u>	<u>908</u>

D at 900 = 455

OK

