

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 South Blanco Formation Pictured Cliff County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Lease Schwerdtfeger Well No. 8-A
Unit E Sec. 31 Twp. 28 Rge. 8 Pay Zone: From 2123 To 2174
Casing: OD 5 1/2 WT. 15.5 Set At 2220 Tubing: OD 2 WT. 4.7 T. Perf. 2101
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .685 Estimated _____
Date of Flow Test: From 4/23 To 5/1/57 * Date S.I.P. Measured 11/9/56 (13 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 (5.35) ² x sp. const. 10 _____ = 286 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 286 psia (h)
P_t = (h) + (f) _____ = 286 psia (i)
Wellhead casing shut-in pressure (Dwt) 799 psig + 12 = 811 psia (j)
Wellhead tubing shut-in pressure (Dwt) 799 psig + 12 = 811 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 811 psia (l)
Flowing Temp. (Meter Run) 58 °F + 460 _____ = 518 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 406 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(d)}} \right) = \underline{492} \text{ MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 492 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{431} \text{ MCF/da.}$
492,885 .8558
575,925 .8760

SUMMARY

P_c = 811 psia
Q = 492 Mcf/day
P_w = 286 psia
P_d = 406 psia
D = 431 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
FRICTION NEGLIGIBLE						



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