

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 Ballak Formation Pictured Cliff County _____
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Lease Sheets Well No. 4-A
Unit # F Sec. 12 Twp. 25 Rge. 8 Pay Zone: From 2912 To 2994
Casing: OD 5 1/2 WT. 15.5 Set At 3035 Tubing: OD 1 1/4 WT. 2.3 T. Perf. 2968
Produced Through: Casing I Tubing _____ Gas Gravity: Measured .655 Estimated _____
Date of Flow Test: From 5/9/57 To 5/17/57* Date S.I.P. Measured 8/14/56 (8 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 (7.20)² x sp. const. 5 _____ = 259 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 259 psia (h)
P_t = (h) + (f) _____ = 259 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ 521 psig + 12 = 533 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ 521 psig + 12 = 533 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 533 psia (l)
Flowing Temp. (Meter Run) 50 °F + 460 _____ = 510 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 267 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \underline{165}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 165 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{162}$ MCF/da.
 $\frac{.9806}{.9835}$

SUMMARY

P_c = 533 psia
Q = 165 Mcf/day
P_w = 259 psia
P_d = 267 psia
D = 162 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

D @ 250 = 164



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