

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

Operator El Paso Natural Gas Lease Cuccia State Well No. 2
Unit D Sec. 32 Twp. 27 Rge. 3 Pay Zone: From 2200 To 2227
Casing: OD 5 1/2 WT. 15.5 Set At 2294 Tubing: OD 1 1/4 WT. 2.3 T. Perf. 2212
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .660 Estimated _____
Date of Flow Test: From 3/16/57 To 3/23/57 * Date S.I.P. Measured 12/21/56
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 (7.85)² x sp. const. 5 = 308 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 308 psia (h)
P_t = (h) + (f) = 308 psia (i)
Wellhead casing shut-in pressure (Dwt) 709 psig + 12 = 721 psia (j)
Wellhead tubing shut-in pressure (Dwt) 709 psig + 12 = 721 psia (k)
P_c = (j) or (k) whichever well flowed through = 721 psia (l)
Flowing Temp. (Meter Run) 54 °F + 460 = 514 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 361 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{569} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 569 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{528} \text{ MCF/da.}$
 $\frac{389,520}{424,977} \cdot \frac{.9165}{.9286}$

SUMMARY

P_c = 721 psia
Q = 569 Mcf/day
P_w = 308 psia
P_d = 361 psia
D = 528 Mcf/day

Company El Paso Natural Gas
By Original Signed
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

FRICTION NEGLIGIBLE

D @ 250 = 599

OK

