

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 Blanco Formation Mesa Verde County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Lease Rincon Unit Well No. 81
Unit K Sec. 17 Twp. 27 Rge. 6 Pay Zone: From 4570 To 5196
Casing: OD 5 1/2 WT. 15.5 Set At 5340 Tubing: OD 2 WT. 4.7 T. Perf. 5212
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .685 Estimated _____
Date of Flow Test: From 4/23 To 5/1/57 * Date S.I.P. Measured 9/18/56 (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 (7.25) ² x sp. const. 10 _____ = 526 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 526 psia (h)
P_t = (h) + (f) _____ = 526 psia (i)
Wellhead casing shut-in pressure (Dwt) 1107 psig + 12 = 1119 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1061 psig + 12 = 1073 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1073 psia (l)
Flowing Temp. (Meter Run) 67 °F + 460 _____ = 527 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 537 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{1700} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 1700 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{1773} \text{ MCF/da.}$
862,960 1.0573
816,154 1.0427

SUMMARY

P_c = 1073 psia Company El Paso Natural Gas Company
Q = 1700 Mcf/day By Original Signed
P_w = 579 psia Title _____
P_d = 537 psia Witnessed by Lewis D. Galloway
D = 1773 Mcf/day 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
3570	.229	255,456	58,499	276,676	335,175	579

D @ 512 = 1721

