

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 San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Lease San Juan 32-9 Well No. 46
Unit 0 Sec. 4 Twp. 31 Rge. 9 Pay Zone: From 5398 To 5912
Casing: OD 5 1/2 WT. 15.5 Set At 5981 Tubing: OD 2 WT. 4.7 T. Perf. 5881
Produced Through: Casing _____ Tubing I Gas Gravity: Measured .610 Estimated _____
Date of Flow Test: From 4/30 To 5/8/57 * Date S.I.P. Measured 12/4/56 (8 days)
Meter Run Size 4 Orifice Size 1.250 Type Chart Sq. Rt. Type Taps Flange

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 (7.35) ² x sp. const. 10 _____ = 511 psia (g)
Corrected seven day avge. meter press. (P_f) (g) + (e) _____ = 511 psia (h)
P_t = (h) + (f) _____ = 511 psia (i)
Wellhead casing shut-in pressure (Dwt) 1040 psig + 12 = 1052 psia (j)
Wellhead tubing shut-in pressure (Dwt) 890 psig + 12 = 902 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 902 psia (l)
Flowing Temp. (Meter Run) 72 °F + 460 _____ = 532 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 451 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{513} \text{ MCF/day}$
(integrated)

D = Q 513 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{557} \text{ MCF/day}$
 $\frac{610,203}{547,133}$ $\frac{1.1152}{1.0852}$

SUMMARY

P_c = 902 psia
Q = 513 Mcf/day
P_w = 516 psia
P_d = 451 psia
D = 557 Mcf/day

Company El Paso Natural Gas Company
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
3587	.230	23.261	5350	261,121	266,471	516

D @ 500 = 512



266,256

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