

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 Elanco Formation NV County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed _____
Operator El Paso Lease San Juan 28-5 Well No. 12
Unit I Sec. 7 Twp. 28N Rge. 5W Pay Zone: From 5346 To 5744
Casing: OD 5-1/2 WT. 15.5 Set At 5870 Tubing: OD 2 WT. 4.7 T. Perf. 5704
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 695 Estimated _____
Date of Flow Test: From 3/31/57 To 4/9/57 * Date S.I.P. Measured 7-30-55
Meter Run Size 4 Orifice Size 1.750 Type Chart √ Type Taps P

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 (7.55) ² x sp. const. 10 = 570 psia (g)
Corrected seven day avge. meter press. (f) (g) + (e) = 570 psia (h)
P_t = (h) + (f) = 570 psia (i)
Wellhead casing shut-in pressure (Dwt) 1082 psig + 12 = 1094 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1084 psig + 12 = 1096 psia (k)
P_c = (j) or (k) whichever well flowed through = 1096 psia (l)
Flowing Temp. (Meter Run) 73 °F + 460 = 533 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 548 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{1337} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 1337 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{1413} \text{ MCF/da.}$
900,912 ⁿ 1.0765
876,815 1.0568

SUMMARY

P_c = 1096 psia
Q = 1337 Mcf/day
P_w = 604 psia
P_d = 548 psia
D = 1413 Mcf/day

Company _____ Original Signer _____
By Lewis E. Galloway
Title _____
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
<u>3964</u>	<u>0.250</u>	<u>158.005</u>	<u>39,501</u>	<u>324,800</u>	<u>364,401</u>	<u>604</u>

93,9072
876,316 = 1.0716 = 10533
1400 = 1408

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OIL CONSUMPTION

COMMISSION

ATTACHED

OFFICE

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