

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 South Adams Formation Pictured Cliff County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Lease Jicarilla Well No. 1-G
Unit K Sec. 21 Twp. 25N Rge. 4W Pay Zone: From 3397 To 3397
Casing: OD 7 WT. 23 Set At 3450 Tubing: OD 1 1/2 WT. 2.3 T. Perf. 3364
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .705 Estimated _____
Date of Flow Test: From 4/9 To 4/17/57 * Date S.I.P. Measured 4/19/56
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 (8.40) ² x sp. const. 500 _____ = 353 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 353 psia (h)
P_t = (h) + (f) _____ = 353 psia (i)
Wellhead casing shut-in pressure (Dwt) 979 psig + 12 = 991 psia (j)
Wellhead tubing shut-in pressure (Dwt) 979 psig + 12 = 991 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 991 psia (l)
Flowing Temp. (Meter Run) 58 °F + 460 _____ = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 496 psia (n)

FLOW RATE CALCULATION

Q = 1027 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* =$ _____ MCF/da
(Integrated)

DELIVERABILITY CALCULATION

D = Q 1027 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{.9730}{.9770} =$ 1003 MCF/da.

SUMMARY

P_c = 991 psia
Q = 1027 Mcf/day
P_w = 475 psia
P_d = 496 psia
D = 1003 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
<u>2372</u>	<u>.158</u>	<u>639.382</u>	<u>101,022</u>	<u>124,609</u>	<u>225,631</u>	<u>475</u>

D @ 250 = 1084

OK



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