

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 Alamosa 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 Unit Well No. 39
Unit B Sec. 26 Twp. 32 Rge. 10 Pay Zone: From 5658 To 6197
Casing: OD 5 1/2 WT. 15.5 Set At 6259 Tubing: OD 2 WT. 4.7 T. Perf. 617 1/4
Produced Through: Casing _____ Tubing I Gas Gravity: Measured .660 Estimated _____
Date of Flow Test: From 5-9-57 To 5-17-57 * Date S.I.P. Measured 10-30-56 (13 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 (7.60) ² x sp. const. 10 _____ = 578 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 578 psia (h)
P_t = (h) + (f) _____ = 578 psia (i)
Wellhead casing shut-in pressure (Dwt) 1022 psig + 12 = 1034 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1022 psig + 12 = 1034 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1034 psia (l)
Flowing Temp. (Meter Run) 70 °F + 460 _____ = 530 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 517 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{1292}$ MCF/day
(integrated)

DELIVERABILITY CALCULATION

D = Q 1292 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{11.35}$ MCF/day
803,867 697,299 1.1199 1.1103

SUMMARY

P_c = 1034 psia
Q = 1292 Mcf/day
P_w = 610 psia
P_d = 517 psia
D = 11.35 Mcf/day
Company El Paso Natural Gas
By _____
Title Original Signed
Witnessed by Lewis D. Galloway
Company _____

* This is date of completion test
* Meter error correction factor 1.0213

REMARKS OR FRICTION CALCULATIONS

GL	CH (1-e ^{-s})	(F _c Q) ² R ²	(F _c Q) ² (1-e ^{-s}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
<u>1075</u>	<u>.256</u>	<u>117,550</u>	<u>37,773</u>	<u>334,084</u>	<u>371,857</u>	<u>610</u>

$1.0213 \times 11.35 = 1386$



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