

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 El Paso Formation Permian 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. 41
Unit A Sec. 31 Twp. 32 Rge. 9 Pay Zone: From 5598 To 6086
Casing: OD 5 1/2 WT. 15.5 Set At 610 Tubing: OD 2 WT. 4.7 T. Perf. 6044
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .655 Estimated _____
Date of Flow Test: From 5/9/57 To 5/17/57 * Date S.I.P. Measured 10/8/56 (10 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 (7.30) ² x sp. const. 10 _____ = 533 psia (g)
Corrected seven day avge. meter press. (P_f) (g) + (e) _____ = 533 psia (h)
P_t = (h) + (f) _____ = 533 psia (i)
Wellhead casing shut-in pressure (Dwt) 1004 psig + 12 = 1016 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1019 psig + 12 = 1031 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1031 psia (l)
Flowing Temp. (Meter Run) 61 °F + 460 _____ = 521 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 516 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \underline{683} \text{ MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 683 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{702} \text{ MCF/da.}$
 $\frac{1.0366}{1.0274}$

SUMMARY

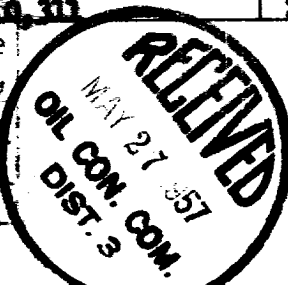
P_c = 1031 psia
Q = 683 Mcf/day
P_w = 1016 psia
P_d = 516 psia
D = 702 Mcf/day

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	$\frac{Q^2}{(1-e^{-s})}$	$(F_c Q)^2$	$(F_c Q)^2 (1-e^{-s})$	P _t ² (Column i)	P _t ² + R ²	P _w
<u>3959</u>	<u>250</u>	<u>11.24</u>	<u>10.31</u>	<u>284,089</u>	<u>284,100</u>	<u>513</u>



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