

Initial Deliverability
Test

Form C-122-A
Revised April 20, 1955

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 Mesa Verde County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Lease San Juan 20-7 Well No. 62
Unit G Sec. 12 Twp. 27 Rge. 7 Pay Zone: From 1894 To 9498
Casing: OD 5-1/2 WT. 15.5 Set At 5093 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 9496
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .669 Estimated _____
Date of Flow Test: From 3-23-61 To 4-6-61 * Date S.I.P. Measured 3-29-60
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 (_____) ² x sp. const. 644 psig = 626 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 626 psia (h)
P_t = (h) + (f) _____ = 626 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = 724 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = 722 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 722 psia (l)
Flowing Temp. (Meter Run) 78 °F + 460 _____ = 538 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 371 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\frac{V(c)}{V(d)}}{\frac{V(c)}{V(d)}} \right)^{.}$ = 420 MCF/day
(Integrated)

DELIVERABILITY CALCULATION

D = Q 420 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$ = 1016 MCF/day
112,923 3.515
116,994 2.5850

SUMMARY

P_c = 722 psia
Q = 420 Mcf/day
P_w = 626 psia
P_d = 371 psia
D = 1016 Mcf/day

Company El Paso Natural Gas Company
By Original Signed
Title Mr. L. E. Kendrick Sr. Gas Engineer
Witnessed by _____
Company _____

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

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ⁻⁸)	(F _c Q) ²	(F _c Q) ² (1-e ⁻⁸) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
<u>3650</u>	<u>.233</u>	<u>15.595</u>	<u>3634</u>	<u>430.336</u>	<u>433.970</u>	<u>658</u>

D at 500 = 810

