

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)

71-389

Pool Blanco Formation Mesaverde County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed _____

Operator El Paso Natural Gas Co. Lease Wilson Well No. 7
Unit H Sec. 35 Twp. 30 Rge. 7 Pay Zone: From 5532 To 6004
Casing: OD 5.5 WT. 15.5 Set At 6033 Tubing: OD 2 WT. 4.7 T. Perf. 5920
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .637 Estimated _____
Date of Flow Test: From 7/30/60 To 8/7/60 * Date S.I.P. Measured 5/6/60
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 (7.10) ² x sp. const. 10 = 504 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 504 psia (h)
P_t = (h) + (f) _____ = 504 psia (i)
Wellhead casing shut-in pressure (Dwt) 645 psig + 12 = 657 + psia (j)
Wellhead tubing shut-in pressure (Dwt) 581 psig + 12 = 593 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 657 + psia (l)
Flowing Temp. (Meter Run) 75 °F + 460 _____ = 535 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 329 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right) = \underline{480} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 480 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{1.8721}{1.6010} = \underline{768} \text{ MCF/da.}$
+ SIPT used for P_c. SIPT too low.

SUMMARY
P_c = 657 psia
Q = 480 Mcf/day
P_w = 509 psia
P_d = 329 psia
D = 768 Mcf/day

Company El Paso Natural Gas
By _____
Title Original Signed
Witnessed by Harold I. Kendrick
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
3772	.240	20.367	4888	254026	258904	509

Intermitter installed 7/22/60.

D at 500 = 463



