

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)

72-483

Pool Blanco Formation Mesa Verde County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease San Juan 28-7 Well No. 105
Unit N Sec. 31 Twp. 28 Rge. 7 Pay Zone: From 4888 To 5032
Casing: OD 7-5/8 WT. 26.4 Set At 2900 Tubing: OD 2 WT. 4.7 T. Perf. 5012
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .681 Estimated _____
Date of Flow Test: From 10/30/59 To 11/7/59 * Date S.I.P. Measured 8/1/59
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. _____ = 483 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 483 psia (h)
P_t = (h) + (f) _____ = 483 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = 1059 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = 1059 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1059 psia (l)
Flowing Temp. (Meter Run) 54 °F + 460 _____ = 514 ° Abs (m)
P_d = ½ P_c = ½ (l) _____ = 530 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{24}$ MCF/da
(Integrated)

DELIVERABILITY CALCULATION
D = Q 24 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{840581}{888192} \cdot \frac{.9463}{.9594} = \underline{23}$ MCF/da.

SUMMARY
P_c = 1059 psia
Q = 24 Mcf/day
P_w = 483 psia
P_d = 530 psia
D = 23 Mcf/day

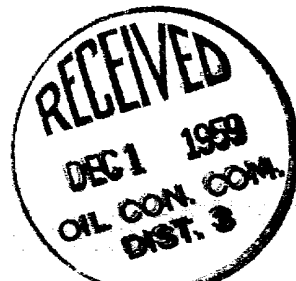
Company El Paso Natural Gas
By Frederick H. Bruch
Title _____
Witnessed by _____
Company _____

* 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
			Friction Negligible			

D at 500 = 23



(10-1)

admiral: 001

admiral: 001

admiral: 001

admiral: 001

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Y-12 171 180

admiral: 001

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