

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 Blanco Mesa Verde Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Lease Indurick Well No. 7-M
Unit 1 Sec. 31 Twp. 30N Rge. 10W Pay Zone: From 4666 To 4908
Casing: OD 5 1/2 WT. 15.5 Set At 4922 Tubing: OD 2 WT. 4.7 T. Perf. 4824
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .710 Estimated _____
Date of Flow Test: From 3/23/57 To 4/1/57 * Date S.I.P. Measured 7/5/56
Meter Run Size 4 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 (7.00) ² x sp. const. 10 _____ = 490 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 490 psia (h)
P_t = (h) + (f) _____ = 490 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1047 psig + 12 = 1059 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1059 psia (l)
Flowing Temp. (Meter Run) 68 °F + 460 _____ = 528 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 530 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{V(c)}}{\sqrt{V(d)}} \right) = \text{404 MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \times \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 391 \text{ MCF/da.}$$

SUMMARY

P_c = 1059 psia
Q = 404 Mcf/day
P_w = 493 psia
P_d = 530 psia
D = 391 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	(1-e ^{-S})	(F _c Q) ²	(F _c Q) ² (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
<u>3.25</u>	<u>0.220</u>	<u>14.425</u>	<u>3.174</u>	<u>240,100</u>	<u>243,274</u>	<u>493</u>

$$D @ 500 = 396$$

OK



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