

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 Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Lease Sunray Well No. 1-B
Unit M Sec. 15 Twp. 30 Rge. 10 Pay Zone: From 4564 To 5304
Casing: OD 5-1/2 WT. 15.5 Set At 5390 Tubing: OD 2 WT. 4.7 T. Perf. 5266
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 665 Estimated _____
Date of Flow Test: From 3/23/58 To 3/31/58 * Date S.I.P. Measured 1-20-58
Meter Run Size 4 Orifice Size 2.000 Type Chart 5 Type Taps P

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 (6.80)² x sp. const. 1000 = 462 psia (g)
Corrected seven day avge. meter press. (P_f) (g) + (e) _____ = 462 psia (h)
P_t = (h) + (f) _____ = 462 psia (i)
Wellhead casing shut-in pressure (Dwt) 1039 psig + 12 = 1051 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1034 psig + 12 = 1046 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1046 psia (l)
Flowing Temp. (Meter Run) 72 °F + 460 _____ = 532 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 523 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \text{_____} = \text{_____}} \right)^* = \text{1492} \text{ MCF/da.}$
(integrated) $\sqrt{(d)} = \text{_____}$

DELIVERABILITY CALCULATION

D = Q 1492 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{9810}{9857} = \text{1471} \text{ MCF/da.}$

SUMMARY

P_c = 1046 psia
Q = 1492 Mcf/day
P_w = 508 psia
P_d = 523 psia
D = 1471 Mcf/day

Company El Paso Natural Gas
By Original Signed
Title Harold L. Kendrick
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>3502</u>	<u>0.225</u>	<u>196.785</u>	<u>44,277</u>	<u>213,444</u>	<u>257,721</u>	<u>508</u>

D at 500 = 1430



OIL CONSERVATION COMMISSION

ALSO DISTRICT OFFICE

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...and the fact that the *Journal* is a journal of the American Psychological Association, the largest and most influential organization in the field of psychology, adds to the journal's prestige and makes it a must-read for all psychologists.

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