

Initial Deliverability
Test
72847

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 Dakota Formation Dakota County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Moncrief Well No. 1
Unit P Sec. 16 Twp. 26 Rge. 11 Pay Zone: From 6126 To 6144
Casing: OD 1-1/2 WT. 11.6 Set At 6229 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 6000
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .686 Estimated _____
Date of Flow Test: From 3/22/61 To 3/29/61 * Date S.I.P. Measured 11/8/60
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: _____ = _____ psi (f)
(b) - (c) Flow through tubing: (a) - (c) Flow through casing _____
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. _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) 1900 _____ psig + 12 = _____ psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through 75 °F + 460 _____ = _____ °Abs (l)
Flowing Temp. (Meter Run) _____ = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = _____ psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{V(c)}{V(d)}} \right) = \underline{1353} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 1353 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{1155} \text{ MCF/da.}$
 $\left[\frac{2946243}{3638917} \right]^n = \frac{.8096}{.8535}$

SUMMARY

P_c = 1900 psia
Q = 1353 Mcf/day
P_w = 538 psia
P_d = 991 psia
D = 1155 Mcf/day

El Paso Natural Gas

Company _____
By _____
Title Original signed by
Witnessed by H. L. ...
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 1)	P _t ² + R ²	P _w
<u>4171</u>	<u>.262</u>	<u>161.824</u>	<u>42.398</u>	<u>247,009</u>	<u>289447</u>	<u>538</u>

D at 500 = 1319

* Use SIP for P_c. NIFT not available.



OK