

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)

72-116-01

Pool Aztec Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Sunray Well No. 2-F
Unit H Sec. 1 Twp. 29N Rge. 10W Pay Zone: From 2380 To 2426
Casing: OD 7-5/8 WT. 26.40 Set At 2549 Tubing: OD 1-1/4 WT. 2.4 T. Perf. 2366
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .667 Estimated _____
Date of Flow Test: From 6/7/58 To 6/17/58 * Date S.I.P. Measured 4/30/58 (12 days)
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 (6.90) ² x sp. const. 5 _____ = 238 ✓ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 238 ✓ psia (h)
P_t = (h) + (f) _____ = 238 ✓ psia (i)
Wellhead casing shut-in pressure (Dwt) 911 psig + 12 = 923 ✓ psia (j)
Wellhead tubing shut-in pressure (Dwt) 911 psig + 12 = 923 ✓ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 923 ✓ psia (l)
Flowing Temp. (Meter Run) 67 °F + 460 _____ = 527 ✓ °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 462 ✓ psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \frac{526}{1} = 526$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 526 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{638485}{777173} \cdot \frac{(.8215)^{.85}}{(.8462)} = 445$ MCF/da.
777460

SUMMARY

P_c = 923 ✓ psia
Q = 526 ✓ Mcf/day
P_w = 273 ✓ psia
P_d = 462 ✓ psia
D = 445 ✓ Mcf/day

Company El Paso Natural Gas
By A. R. Gaudin
Title _____
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
1578 ✓	.108 ✓	167.703 ✓	18,112 ✓	56,644 ✓	74,756 ✓	273 ✓

D at 250 = 519



