

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 Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Lease Howell Well No. 3-H
Unit H Sec. 12 Twp. 30 Rge. 7 Pay Zone: From 5172 To 5652
Casing: OD 5 1/2 WT. 15.5 Set At 5742 Tubing: OD 2 WT. 4.7 T. Perf. 5653
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .615 Estimated _____
Date of Flow Test: From 5/23 To 6/1/57 * Date S.I.P. Measured 10/10/56 (9)
Meter Run Size 4" Orifice Size 1.750 Type Chart Sq. Rt. Type Taps Flange

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 (7.15) ² x sp. const. 10 = 511 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 511 psia (h)
P_t = (h) + (f) = 511 psia (i)
Wellhead casing shut-in pressure (Dwt) 1056 psig + 12 = 1068 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1056 psig + 12 = 1068 psia (k)
P_c = (j) or (k) whichever well flowed through = 1068 psia (l)
Flowing Temp. (Meter Run) 81 °F + 460 = 541 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 534 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \text{_____} = \text{_____}} \right)^* = \text{1751 MCF/day}$
(Integrated) $\sqrt{(d)} = \text{_____}$

DELIVERABILITY CALCULATION

D = Q 1751 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{1.0444}{1.0331} = \text{1809 MCF/day}$
 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = \frac{855,468}{819,063}$

SUMMARY

P_c = 1068 psia
Q = 1751 Mcf/day
P_w = 567 psia
P_d = 534 psia
D = 1809 Mcf/day

Company El Paso Natural Gas Company
By [Signature]
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
3477	.223	271.030	60,440	261,221	261,221 + 561	567

D at 500 = 1749



[Signature]

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

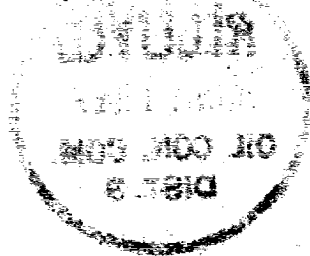
100-100000

100-100000

100-100000

100-100000

100-100000



100-100000