

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 Date Test Filed _____

Operator El Paso Natural Gas Lease Calloway Pool Unit Well No. 2 (M)

Unit H Sec. 34 Twp. 31 Rge. 11 Pay Zone: From 4485 To 4590

Casing: OD 5-1/2 WT. 15.5 Set At 4702 Tubing: OD 2 WT. 4.7 T. Perf. 4521

Produced Through: Casing _____ Tubing X Gas Gravity: Measured .675 Estimated _____

Date of Flow Test: From 8/8 To 8/16/57 * Date S.I.P. Measured 6/4/57 (30 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 (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) 949 psig + 12 = 961 psia (k)

P_c = (j) or (k) whichever well flowed through _____ = 961 psia (l)

Flowing Temp. (Meter Run) 83 °F + 460 _____ = 543 °Abs (m)

P_d = ½ P_c = ½ (l) _____ = 481 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{680} \text{ MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 680 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{1.0249}{1.0186} = \underline{693} \text{ MCF/da.}$
 $\left[\frac{692,160}{675,288} \right]^n$

SUMMARY

P_c = 961 psia
Q = 680 Mcf/day
P_w = 498 psia
P_d = 543 481 psia
D = 693 Mcf/day

Company El Paso Natural Gas
By Original Signed
Title _____
Witnessed by Lewis D. Galloway
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 R ²	(1-e ^{-S})	P _t ² (Column i)	P _d ²	P _w
3052	.199	40.870	8133		240,100	248,233	498

D at 500 = 663

OK

