

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 Elance Mesa Verde Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Co. Lease Pierce Well No. 2
Unit A 51 Sec. 8 15.5 Twp. 30N Rge 9W Pay Zone: From 4728 To 4863
Casing: OD 7 WT. 20 Set At 3050 Tubing: OD 2 WT. 4.7 T. Perf. 5242
Produced Through: Casing _____ Tubing X Gas Gravity: Measured _____ Estimated .660
Date of Flow Test: From 2/29 To 3/8 * Date S.I.P. Measured 2/2/56
Meter Run Size 4 Orifice Size _____ 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:
(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 (7.50) ² x sp. const. 10 _____ = 563 psia (g)
Corrected seven day avge. meter press. (P_f) (g) + (e) _____ = 563 psia (h)
P_t = (h) + (f) _____ = 563 psia (i)
Wellhead casing shut-in pressure (Dwt) 1045 psig + 12 = 1057 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1046 psig + 12 = 1058 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1058 psia (l)
Flowing Temp. (Meter Run) 95 °F + 460 _____ = 555 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 529 psia (n)

FLOW RATE CALCULATION

Q = 3489 X $\left(\frac{\sqrt{(a)} - \sqrt{(d)}}{\sqrt{(d)}} \right) = \underline{\underline{3489}}$ MCF/day
(integrated)

DELIVERABILITY CALCULATION

D = Q 3489 $\left[\frac{(P_c^2 - P_d^2) - (P_c^2 - P_w^2)}{P_c^2 - P_w^2} \right]^n = \underline{\underline{4703}}$ MCF/day
 $\frac{1.4898}{1.3480}$

SUMMARY

P_c = 1058 psia
Q = 3489 Mcf/day
P_w = 746 psia
P_d = 529 psia
D = 4703 Mcf/day

Company El Paso Natural Gas Company
By Original Signed
Title Lewis D. Galloway
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>3460</u>	<u>.222</u>	<u>1076.102</u>	<u>238,895</u>	<u>316,969</u>	<u>555,864</u>	<u>746</u>

D @ 500 = 3666

OK



OIL CONSERVATION DIVISION	
3	
1	
1	
1	✓