

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 Company Date Test Filed _____
Operator El Paso Natural Gas Lease San Juan 32-9 Well No. 13
Unit G Sec. 14 Twp. 31 Rge. 10 Pay Zone: From 4891 To 4991
Casing: OD 5 1/2 liner WT. 15.5 Set At 4660-5546 Tubing: OD 2 WT. 4.7 T. Perf. 5427
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .670 Estimated _____
Date of Flow Test: From 8/23 To 8/31 * Date S.I.P. Measured 7/26/56
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 (7.25) ² x sp. const. 10 _____ = 526 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 526 psia (h)
P_t = (h) + (f) _____ = 526 psia (i)
Wellhead casing shut-in pressure (Dwt) 982 psig + 12 = 994 psia (j)
Wellhead tubing shut-in pressure (Dwt) 980 psig + 12 = 992 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 992 psia (l)
Flowing Temp. (Meter Run) 88 °F + 460 _____ = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 496 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \frac{2285}{1} \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{2285}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{1/2}} = \frac{2285}{\left[\frac{738,048}{600,316} \right]^{1/2}} = \frac{2285}{1.2294} = 2668 \text{ MCF/da.}$$

SUMMARY

P_c = 992 psia
Q = 2285 Mcf/day
P_w = 619 psia
P_d = 496 psia
D = 2668 Mcf/day

Company El Paso Natural Gas Company
By L. D. Holloway by Tom Hunt
Title Senior Gas Eng.
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>3636</u>	<u>.232</u>	<u>461519</u>	<u>107,072</u>	<u>276,676</u>	<u>383,748</u>	<u>619</u>

D @ 500 = 2320



1. The first part of the report is a general introduction to the subject.

2. The second part is a detailed description of the method used.

3. The third part is a discussion of the results obtained.

4. The fourth part is a conclusion and a list of references.

5. The fifth part is a summary of the work done.

6. The sixth part is a list of the authors.

7. The seventh part is a list of the titles.

8. The eighth part is a list of the subjects.

9. The ninth part is a list of the names.

10. The tenth part is a list of the dates.

11. The eleventh part is a list of the places.

12. The twelfth part is a list of the times.

13. The thirteenth part is a list of the years.

14. The fourteenth part is a list of the months.

15. The fifteenth part is a list of the days.

16. The sixteenth part is a list of the hours.

17. The seventeenth part is a list of the minutes.

18. The eighteenth part is a list of the seconds.

19. The nineteenth part is a list of the milliseconds.

20. The twentieth part is a list of the microseconds.

21. The twenty-first part is a list of the nanoseconds.

22. The twenty-second part is a list of the picoseconds.

