

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 Tegucigalpa Formation Pictured Cliffs County El Arriba
Purchasing Pipeline Southern Union Gas Co. Date Test Filed 2/4/58
Operator Southern Union Gas Co. Lease McGowan Well No. 1-3
Unit K Sec. 4 Twp. 25N Rge. 3E Pay Zone: From 3775 To 3816
Casing: OD 5 1/2" WT. 13.54 Set At 3867' Tubing: OD 2 3/8" WT. 4.74 T. Perf. 3775
Produced Through: Casing _____ Tubing I Gas Gravity: Measured .667 Estimated _____
Date of Flow Test: From 12-16-57 To 12-23-57 * Date S.I.P. Measured 10-4-57
Meter Run Size 4" Orifice Size 2" Type Chart L-10 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 (6.1)² x sp. const. 10 = _____ psia (g)
Corrected seven day avge. meter press. (P_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = _____ psia (i)
Wellhead casing shut-in pressure (Dwt) 1017 psig + 12 = 1029 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1017 psig + 12 = 1029 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1029 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 _____ = 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 515 psia (n)

FLOW RATE CALCULATION

Q = 797 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{797}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 797 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^{0.85} = \underline{984}$ MCF/da.
793,616
619,272
1.2347

SUMMARY

P_c = 1029 psia
Q = 797 Mcf/day
P_w = 663 psia
P_d = 515 psia
D = 984 Mcf/day

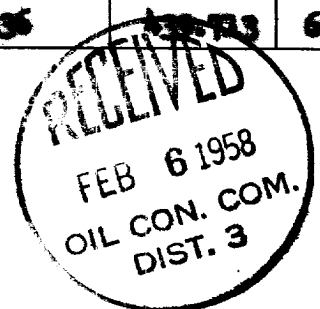
Company Southern Union Gas Company
By Bill McEwen
Title Exploration Department
Witnessed by _____
Company _____

- * 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 R ²	(1-e ^{-S})	P _t ² (Column i)	P _t ² + R ²	P _w
<u>2518</u>	<u>0.167</u>	<u>56.151</u>	<u>9.377</u>		<u>430.336</u>	<u>430.733</u>	<u>663</u>

INITIAL DELIVERABILITY TEST



1. The first part of the document is a list of names and addresses of the members of the committee.

2. The second part of the document is a list of names and addresses of the members of the committee.

3. The third part of the document is a list of names and addresses of the members of the committee.

4. The fourth part of the document is a list of names and addresses of the members of the committee.

5. The fifth part of the document is a list of names and addresses of the members of the committee.

6. The sixth part of the document is a list of names and addresses of the members of the committee.

7. The seventh part of the document is a list of names and addresses of the members of the committee.

8. The eighth part of the document is a list of names and addresses of the members of the committee.

9. The ninth part of the document is a list of names and addresses of the members of the committee.

10. The tenth part of the document is a list of names and addresses of the members of the committee.

11. The eleventh part of the document is a list of names and addresses of the members of the committee.

12. The twelfth part of the document is a list of names and addresses of the members of the committee.

13. The thirteenth part of the document is a list of names and addresses of the members of the committee.

14. The fourteenth part of the document is a list of names and addresses of the members of the committee.

15. The fifteenth part of the document is a list of names and addresses of the members of the committee.