

Initial Deliverability Test

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 Angels Peak Dakota Formation Dakota County San Juan
 Purchasing Pipeline Southern Union Gas Co. Date Test Filed 1-8-60
 Operator Three States Nat. Gas Co. Lease Lodewick Well No. 4
 Unit F Sec. 18 Twp. 27N Rge. 9W Pay Zone: From 6728 To 6555
 Casing: OD 5 1/2 WT. 15.5 Set At 6771 Tubing: OD 2" WT. 4.7 T. Perf. 6693
 Produced Through: Casing _____ Tubing X Gas Gravity: Measured .722 Estimated _____
 Date of Flow Test: From 12-16-59 To 12-24-59 * Date S.I.P. Measured 9-11-59
 Meter Run Size 4.026 Orifice Size 2 1/2 Type Chart Normal Type Taps Pipe

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 385 psig + 12 = 397 psia (g)
 Square root chart average reading (_____)² x sp. const. _____ = _____ psia (g)
 Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 397 psia (h)
 P_t = (h) + (f) _____ = 397 psia (i)
 Wellhead casing shut-in pressure (Dwt) 2047 psig + 12 = 2059 psia (j)
 Wellhead tubing shut-in pressure (Dwt) 2047 psig + 12 = 2059 psia (k)
 P_c = (j) or (k) whichever well flowed through _____ = 2059 psia (l)
 Flowing Temp. (Meter Run) 87 °F + 460 _____ = 547 ° Abs (m)
 P_d = 1/2 P_c = 1/2 (l) _____ = 1030 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^n$ = _____ MCF/da
 (Integrated)

DELIVERABILITY CALCULATION

D = Q 1001 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$ $\cdot .7838^{.75} = .8337 =$ 835 MCF/da.

SUMMARY

P_c = 2059 psia
 Q = 1001 Mcf/day
 P_w = 429 psia
 P_d = 1030 psia
 D = 835 Mcf/day
 Company Three States Natural Gas Company
 By Original Signed By John Carothers
 Title Assistant District Supt.
 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
4832	0.296	88.57	26.2	157,609	183,809	429

OK



1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes the need for transparency and accountability in financial reporting.

2. The second part of the document outlines the various methods and techniques used to collect and analyze data. It includes a detailed description of the experimental procedures and the statistical tools employed.

3. The third part of the document presents the results of the study, including a series of tables and graphs that illustrate the findings. The data shows a clear trend in the relationship between the variables being studied.

4. The fourth part of the document discusses the implications of the findings and provides a conclusion. It suggests that the results have significant implications for the field of study and offers recommendations for further research.

5. The fifth part of the document includes a list of references and a bibliography. It cites the works of other researchers in the field, providing a context for the current study.

6. The sixth part of the document contains a list of appendices and supplementary materials. These include additional data sets, detailed calculations, and other relevant information that supports the main text.

7. The seventh part of the document is a list of figures and tables. Each figure and table is accompanied by a brief description of its content and its relevance to the study.

8. The eighth part of the document is a list of footnotes and endnotes. These provide additional information and clarifications regarding the content of the document.

9. The ninth part of the document is a list of acknowledgments. It expresses gratitude to the individuals and organizations that provided support and assistance during the course of the study.