EXECUTIVE SUMMARY

FOR

Lakeview Water Supply Project,
Level II

Submitted To:

Wyoming Water Development Commission

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I. INTRODUCTION

A. Authorization and Purpose

This Level II Report for the Lakeview Water Supply Project has been completed in accordance with a contract between the Wyoming Water Development Commission and JFC Engineers, Architects, Surveyors of Rock Springs, Wyoming, dated 17 June 1998. The purpose of this project was to complete a study and develop a preliminary design after evaluating the existing supply and distribution systems in the area and to determine the most feasible method for the district to obtain a potable water supply. Preliminary designs and cost estimates have been developed. The tasks involved for the Scope of Work are as follows:

Task 1 Scoping Meetings and Workshops
Task 2 Analysis of Potential Water Supplies
Task 3 Environmental Studies/Construction Permits
Task 4 Surveying
Task 5 Geological/Geotechnical Investigations
Task 6 Preliminary Designs and Cost Estimates
Task 7 Economic Analysis and Project Financing
Task 8 Reports, Executive Summaries, and Results Presentations

B. Study Area

The Lakeview Service and Improvement District is located west of the city of Casper at the intersection of Seven Mile and Zero Roads. A vicinity map (Figure 1) is included on the following page.

At the commencement of this study, the district had 22 taps or approximately 70 members. During the study, the district expanded to include a large portion of the residences of Horseshoe Road to the east in the area known as Westcrest Ranches. Per the direction of the Lakeview Board of Directors, this report includes calculations to include this area in the Lakeview District. At the date of the finished report, the district had a total of 52 potential taps.

Presently, Natrona County has placed a 10-acre minimum plot size per residence within the county as a zoning restriction. Therefore, additional tracts will be large and a growth cap can be estimated on available 10-acre tracts.

C. Investigation, Fieldwork and Meetings

The investigation and fieldwork was conducted from June 1998 through September 1998. The investigation included data research, field reconnaissance, and personal contacts in the study area with personnel from the Lakeview Service and Improvement District, the Pioneer Water and Sewer District, the Natrona County Regional Water System Joint Powers Board (hereinafter referred to as Regional), and WWDC.
LAKEVIEW IMPROVEMENT & SERVICE DISTRICT

PROJECT NO: 4577-9BE
SHEET NO:

Figure 1
Meetings conducted during the course of work included:

1. Scoping meeting in Casper on June 23, 1998, with members of the Lakeview District, WWDC, and JFC present.
2. Several other meetings with the district were held throughout the scope of the project.

D. Conclusions

1. Distribution System
   • It is feasible for the district to attach to the new Regional 16" diameter line that will run on the north side of Zero Road. This line will be constructed in the spring of 1999.

2. Storage
   • Fire flows require a total of 300,000 gallons storage. Adequate storage exists for fire flows in the existing airport tanks.

3. Potential Funding Sources
   • The following funding sources should be considered in pursuing project development:
     a. Wyoming Water Development Commission (WWDC)
     b. Wyoming Farm Loan Board (WFLB)
     c. Rural Utility Service (RUS)

4. Impacts on Water Rates
   • The total monthly water cost per 3/4" tap per month is estimated to be:
     WFLB funding ................................................................. $65.56
     RUS funding ................................................................. $65.07
   • The one time tap fee charges will be:
     Regional water ............................................................... $650/tap
     Meter and tap installation fee to contractor ....................... $1,000.00
II. CONCLUSIONS

The Lakeview Improvement and Service District's water system appears feasible due to the close proximity of the new Regional lines in Zero and Seven Mile Roads. The following points need to be addressed before beginning the project:

- The district needs to make sure interaction with the designers of the Regional lines takes place prior to the spring of 1999 to ensure that a tee is placed in the line at the Lakeview district connection point.
- The above tap fees assume the district can buy water wholesale from the Regional System. Purchasing water from the Regional system is the most cost effective and is recommended by both the engineer and the Wyoming Water Development Commission.
- The issue of available water rights needs to be discussed between the district and the Regional System Manager, Dean Dickey.
- Dean Dickey of Regional and Civil Engineering Professional, Inc., supplied the data used to model the system and to predict the availability of storage.