

5.10 FOX RIDGE LINE

The Fox Ridge Line may provide service to one potential participant in the probable service boundary: Fox Ridge. The proposed Fox Ridge Line has one tap on the existing 12-inch City distribution system pipeline located near the intersection of State Highway 50 and Southern Drive (see Mapbook “Fox Ridge Line”).

A new package pump station would provide pressure from the distribution system potential participant. The preliminarily sized 150 gpm Fox Ridge Pump Station would provide approximately 180 ft of TDH to deliver water to the potential participants downstream.

FOX RIDGE

This system is located to the southwest of the Gillette city limits. An inventory form was not completed for Fox Ridge, so limited system information is available. An existing pump station provides service pressure from the storage tank to the distribution system. The number and location of existing wells is unknown. Table 56 presents the known existing water system summary for Fox Ridge. Figures 91 through 92 are photos of the existing pump station and tank.

**TABLE 56 FOX RIDGE
EXISTING SYSTEM SUMMARY**

Tank	Volume (gallons)	
1	Unknown	
Well	Production Rate (gpm)	
1	Unknown	
Number of Existing Water Taps	Number of Planned Future Water Taps	
Unknown	Unknown	
Annual Water Usage (gallons)	Peak Day Summer Usage (gallons)	Peak Day Winter Usage (gallons)
Unknown	Unknown	Unknown
Operating Pressure (psi)	Optimum Operating Pressure (psi)	
Unknown	Unknown	

FIGURE 91 FOX RIDGE PUMP STATION



FIGURE 92 FOX RIDGE PUMP STATION AND TANK



The system may be connected to the City’s distribution system by the Fox Ridge Line (see Mapbook “Fox Ridge” – Sheets 1 to 8). One 8-inch connection of approximately 24,900 ft would provide service to the existing tanks. The service connection may need to be shutdown during the winter because of infrequent use and/or water quality reasons. A service isolation valve would be provided on the connection line and a standard master meter and altitude valve would be required. No existing disinfection facilities have been inventoried; therefore a new chlorine booster station would be required at the existing pump station. Table 57 summarizes the future connection requirements. The interim class of service has been defined as Class A because Fox Ridge is located four and a half miles from the existing City distribution system and there is only one potential participant currently located along the Line. Therefore, the pipeline may not be built until much later compared to the other proposed Lines.

**TABLE 57 FOX RIDGE
FUTURE CONNECTION SUMMARY**

Class of Service	
Interim: Class A	Future: Class E
Delivery Requirements	
Connection Size: 8-inch	
Average Day Demand: 12 gpm	Peak Day Average Demand: 40 gpm
Preferred Delivery Point	
Connection to: Existing Storage Tank	Estimated Pressure at Delivery Point: 50 psi (reduced by Altitude Valve into Tank)
Infrastructure Needs to Establish Connection	
Service isolation valve, standard master meter, altitude valve, and approximately 24,900 feet of dedicated 8-inch pipe.	