5.13 RIDGEWAY LINE

The Ridgeway Line may provide service to one of the potential participants in the possible service boundary: Ridgway Community Well Association. The proposed Ridgeway Line is fed from the Eight Mile Line west of the Eight Mile Subdivision connection (see Mapbook "Ridgeway Line") near the intersection of Force Road and Franklin Avenue.

The Ridgeway Line could provide service to residents on or near Wild Horse Creek Road. A tap and isolation valve was provided for potential future connection to these residents (see Mapbook "Ridgeway Line" Sheet 4).

RIDGEWAY COMMUNITY WELL ASSOCIATION

This system is located 10 miles southwest of the Gillette city limits. Ridgeway Community Well Association does not have individual water meters for customers and disinfects their water using sodium hypochlorite. They have collected water quality data that is available.

The returned inventory form provided the following information about Ridgeway Community Water Association. This is a privately owned system which is reported to be in good condition and is four years old. This system does not provide fire protection and does not have standby power because it is a gravity system. Users of this system pay a $30.00 a month base rate and they have recently installed 2 new pumps. Two existing wells provide water to the community with a third well for emergencies only. Only one well pump is run at a time due to limitations by Powder River Power Service. The water serves people living on 40 acre parcels. The ground elevation is high compared to the water table so the wells had to be drilled deep causing the system cost per parcel to be high. They recently installed some pipelines to some acreage that didn't have water.

When asked, the largest issue the system operators have in being part of a regional system is the distance (10 miles) from Gillette. They feel tying into the Regional System would be cost prohibitive. Table 80 presents the existing water system summary for Ridgeway Community Well Association. Figures 135 through 138 are photos of the existing pump station, tank, and wells.

TABLE 80 RIDGEWAY COMMUNITY WELL ASSOCIATION EXISTING SYSTEM SUMMARY

Tank	**Volume (gallons)**	
1	6,615	
Wells	**Production Rate (gpm)**	
1	50	
2	50	
3	50	
Number of Existing Water Taps	**Number of Planned Future Water Taps**	
19	Not given	
Annual Water Usage (gallons)	**Peak Day Summer Usage (gallons)**	**Peak Day Winter Usage (gallons)**
Unknown at this time	Not given	Not given
Operating Pressure (psi)	**Optimum Operating Pressure (psi)**	
Gravity from tank	25-80	

FIGURE 135 **RIDGEWAY COMMUNITY WELL ASSOCIATION PUMP STATION**

FIGURE 136 **RIDGEWAY COMMUNITY WELL ASSOCIATION TANK**

FIGURE 137 **RIDGEWAY COMMUNITY WELL ASSOCIATION WELL #1**

FIGURE 138 **RIDGEWAY COMMUNITY WELL ASSOCIATION WELL #2**

The system may be connected to the Eight Mile Line by the Ridgeway Line (see Mapbook "Ridgeway Line" – Sheets 1 to 12). One 6-inch connection of approximately 35,770 would provide service to the existing storage tank. The service connection may need to be shutdown during the winter for 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. Table 81 summarizes the future connection requirements. The interim class of service has been defined as Class A because Ridgeway Community Well Association is located outside the probable service boundary established in the Master Plan. The Ridgeway Line may be built much later than the other Lines.

TABLE 81 RIDGEWAY COMMUNITY WELL ASSOCIATION FUTURE CONNECTION SUMMARY

Class of Service	
Interim:	**Future:**
Class A	Class E
Delivery Requirements	
Connection Size: 6-inch	
Average Day Demand:	**Peak Day Average Demand:**
3 gpm	10 gpm
Preferred Delivery Point	
Connection to:	**Estimated Pressure at Delivery Point:**
Existing Storage Tank	110 psi (reduced by Altitude Valve into Tank)
Infrastructure Needs to Establish Connection	
Service isolation valve, standard master meter, altitude valve, and approximately 35,770 feet of dedicated 6-inch pipe.	