

EXHIBIT D:

COST OF OPERATION

Breathitt County Water District

12/5/2023

KY30 East & Wolf Creek Waterline Extension
998-48

Electrical Rates - AEP (Tariff 215-Medium General Service)

Monthly Basic Fee	\$ 17.50
Usage Rate	\$ 0.10198 per KWH for first 200 KWH \$ 0.08736 per KWH after first 200 KWH
Demand Charge	\$ 1.91 per KW

Pump Data

Average Flow Rate	24	gpm
Horsepower	30	
Efficiency	0.75	
Hours of Operation	24.00	hours/day

Demand of Customers

Estimated Customers	87	Homes
New - Total Estimate Flow	17,400	gallons/day

Opinion of Probable Cost of Operation

Proposed Operating Conditions

New Production Cost

Purchase Price per 1,000 gallons (Purchased from the City of Jackson)	\$ 3.52
Total - Proposed Annual Cost of Purchased Water	\$ 22,355.52

Operation Costs

Pumping Costs								
Booster Station Electric Consumption	29.840	KW	716	KWH per Day	261,398	KWH per year		
Total Project Electric Consumption	29.840	KW	716	KWH per Day	261,398	KWH per year		
	Monthly Basic Fee (x 12 months)					\$ 210.00		
	Usage Rate (x 12 months)					\$ 31.28		
	Demand Charge (x 12 months)					\$ 683.93		
Total - Proposed Annual Pumping Cost							\$ 925.21	
Total - Proposed Annual Production & Operation Costs							\$ 23,280.73	