

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

* * * * *

In the Matter of

THE APPLICATION OF HARDIN COUNTY WATER)
DISTRICT NO. 2, HARDIN COUNTY, KENTUCKY,)
(1) FOR A CERTIFICATE OF PUBLIC CONVEN-)
IENCE AND NECESSITY AUTHORIZING SAID)
DISTRICT TO CONSTRUCT MAJOR IMPROVEMENTS)
AND ADDITIONS TO ITS EXISTING MUNICIPAL)
WATER DISTRIBUTION SYSTEM PURSUANT TO)
THE PROVISIONS OF CHAPTER 74 OF THE)
KENTUCKY REVISED STATUTES; (2) SEEKING)
APPROVAL OF THE ADJUSTMENT OF WATER)
SERVICE RATES AND CHARGES; AND (3))
SEEKING APPROVAL OF THE ISSUANCE OF)
CERTAIN SECURITIES)

CASE NO.
9041

ORDER

IT IS ORDERED That Hardin County Water District No. 2 shall file an original and eight copies of the following information with the Commission with a copy to all parties of record by May 31, 1984. If neither the requested information nor a motion for an extension of time is filed by the stated date, the case may be dismissed.

1. A billing analysis to determine present and proposed revenues completed as in Format No. 1, attached to Order.
2. Final Plans and Specifications.
3. Bid Tabulations (when available).
4. Preliminary Approval from the Division of Water.

Done at Frankfort, Kentucky, this 10th day of May, 1984.

PUBLIC SERVICE COMMISSION


For the Commission

ATTEST:

Secretary

Name of Utility

Case No.

BILLING ANALYSIS

The billing analysis is the chart reflecting the usage by the customers as well as the revenue generated by a specific level of rates. A billing analysis of both the current and proposed rates is mandatory for analysis of this rate filing. The following is a step-by-step description which may be used to complete the billing analysis. A completed sample of a billing analysis is also included. Although the sample reflects water usage, it is equally applicable for gas companies using a declining block rate design. This billing analysis is not intended for companies using a flat rate design.

a. Usage Table (Usage by Rate Increment)

Information needed to complete the usage table should be obtained from the meter books or other available usage records. The usage table is used to spread total usage into the proper incremental rate step. Initial recording of usage should be in 100 gallon increments. Where there are only a few very large users or contract customers, actual usage should be used. Usage between 0-100 gallons should be shown as 100, between 101-200 as 200, etc. The usages and customers are then combined for purposes of the usage table as follows:

Column No. 1 is the incremental step in the present or proposed rate schedule for which the analysis is being made. Column No. 2 is the number of bills in each incremental rate step. Column No. 3 is the total gallons used in each incremental rate step. Column No.'s 4-9 are labeled to correspond to the incremental rate steps shown in Column No. 1 and contains the actual number of gallons used in each incremental rate step.

Example for completing Usage Table is as follows:

Column No. 1 is incremental rate steps.

Columns No. 2 and 3 are completed by using information obtained from usage records.

Columns No.'s 4-9 are completed by the following steps:

- Step 1: 1st 2,000 gallons minimum bill rate level
432 Bills
518,400 gallons used
All bills use 2,000 gallons or less, therefore,
all usage is recorded in Column 4.
- Step 2: Next 3,000 gallons rate level
1,735 Bills
4,858,000 gallons used
1st 2,000 minimum X 1,735 bills = 3,470,000
gallons - record in Column 4
Next 3,000 gallons - remainder of water over
2,000 = 1,388,000 - record in Column 5
- Step 3: Next 10,000 gallons rate level
1,830 Bills
16,268,700 gallons used
1st 2,000 minimum X 1,830 bills = 3,660,000
gallons - record in Column 4
Next 3,000 gallons X 1,830 bills = 5,490,000
gallons - record in Column 5
Next 10,000 gallons - remainder of water over
3,000 = 7,118,700 gallons - record in Column 6
- Step 4: Next 25,000 gallons rate level
650 Bills
15,275,000 gallons used
1st 2,000 minimum X 650 bills = 1,300,000
gallons - record in Column 4
Next 3,000 gallons X 650 bills = 1,950,000
gallons - record in Column 5
Next 10,000 gallons X 650 bills = 6,500,000
gallons - record in Column 6
Next 25,000 gallons - remainder of water over
10,000 = 5,525,000 gallons - record in
Column 7
- Step 5: Over 40,000 gallons rate level
153 Bills
9,975,600 gallons used
1st 2,000 minimum x 153 bills = 306,000 gallons
- record in Column 4
Next 3,000 gallons x 153 bills = 459,000 gallons
- record in Column 5
Next 10,000 gallons x 153 bills = 1,530,000
gallons - record in Column 6
Next 25,000 gallons x 153 bills = 3,825,000
gallons - record in Column 7
Over 40,000 gallons - remainder of water over
25,000 = 3,855,600 gallons - record in
Column 8

Step 6: Total each column for transfer to Revenue Table.

b. Revenue Table (Revenue by Rate Increment)

Revenue Table is used to determine the revenue produced from the Usage Table. Column No. 1 is the incremental rate steps in the rate schedule for which the analysis is being made. Column No. 2 indicates the total number of bills. Column No. 3 is the number of gallons accumulated in each rate increment (Totals from Columns 4, 5, 6, 7 and 8 of the above usage table). Column No. 4 is the rates to be used in determining revenue. Column No. 5 contains revenue produced.

Example for completing Revenue Table is as follows:

Complete Columns No. 1, 2 and 3 using information from Usage Table.

Complete Column No. 4 using rates either present or proposed.

Column No. 5 is completed by first multiplying the bills times the minimum charge.

Then, starting with the second rate increment, multiply Column No. 3 by Column No. 4 and total.

Name of Utility

Case No.

Revenue from Present/Proposed Rates

Test Period from _____ to _____

USAGE TABLE

Usage by Rate Increment

Class: Residential

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Bills	Gallons/MCF	1st. 2,000	Next 3,000	Next 10,000	Next 25,000	Over 40,000	Total	
First 2,000: Min. Bill	432	518,400	518,400	1,388,000	7,118,700	5,525,000	3,825,000	518,400
Next 3,000 Gallons	1,735	4,858,000	3,470,000	5,490,000	16,268,700	15,275,000	9,975,600	4,858,000
Next 10,000 Gallons	1,830	16,268,700	3,660,000	1,950,000	6,500,000	3,825,000	3,855,600	16,268,700
Next 25,000 Gallons	650	15,275,000	1,300,000	459,000	1,530,000	3,825,000	3,855,600	15,275,000
Over 40,000 Gallons	153	9,975,600	306,000					9,975,600
Total	4,800	46,895,700	9,254,400	9,287,000	15,148,700	9,350,000	3,855,600	46,895,700

REVENUE TABLE

Revenue By Rate Increment

(1)	(2)	(3)	(4)	(5)
Bills	Gallons/MCF	Rate	Revenue	Revenue
First 2,000: Min. Bill	4,800	9,254,400	\$5.00 Min.	\$24,000.00
Next 3,000 Gallons		9,287,000	2.50	23,217.50
Next 10,000 Gallons		15,148,700	2.00	30,297.40
Next 25,000 Gallons		9,350,000	1.25	11,687.50
Over 40,000 Gallons		3,855,600	.75	2,891.70

\$92,094.10 Total Revenue