

*J M Faudt*

Section C - South Fork Feeder.

|  | <u>Material</u>   | <u>Labor</u>      |
|--|-------------------|-------------------|
| 21037 Ft B M 2 x 4 to 4 x 6 -----                  | \$390 00          |                   |
| 2739 " 4 x 12 to 8 x 8 -----                       | 47 00             |                   |
| Hardware, bolts, lags, nails,<br>plates, etc ----- | 106 27            |                   |
| Cement 12 sacks at .60 -----                       | 7 20              |                   |
| Powder -----                                       | 4 00              |                   |
| Depreciation on tools -----                        | 28 00             |                   |
| Freighting material -----                          | 428 90            |                   |
| Construction -----                                 |                   | \$1,421.17        |
| Engineering -----                                  |                   | 223 09            |
| Roads -----  |                   | 45 90             |
| 2500 lin.ft. No 60 steel flume --                  | 2 270 00          |                   |
| To October 1, by W S P -----                       | \$ 25 51          | \$ 232 88         |
|  | <u>\$3 306 88</u> | <u>\$1 923 04</u> |

$$\begin{array}{r} 2500 \\ 660 \\ \hline 1840 \end{array}$$

$$\begin{array}{r} 2270. \\ 600.60 \\ \hline 1669.40 \end{array}$$

$$\begin{array}{r} 3,306.88 \\ 1,923.04 \\ \hline 5,229.92 \end{array}$$

50 1

THE CUYAMACA WATER COMPANY

ASSEMBLY OF COST DATA FOR APPRAISEMENT.

The appraisement of June 1, 1912, presented to Railroad Commission by Lane was written into the Company's books - after the decision.

No further writing in or off has been done on Company's books. Except gradually to adopt the Commission's account numbers.

The quantities as furnished by Lane in his appraisement are obviously the starting point for a new appraisal. The order will be as follows:

- First: Lane appraisement of June 1, 1912 worked over, particularly modified as to "Flume". Intangible values. Riparian rights.
- Second: Almost no construction was undertaken from June 1, 1912 to January 1913, except the laying of new pipe lines, relaying and taking over Kensington Park and Normal Heights system. This construction has been carefully appraised and brought to April 1, 1913.
- Third: A supplementary to the above covering April to December, 1913, which completes the listing of Kensington Park and Normal Heights.
- Fourth: Other new construction - June to December inclusive 1912, especially La Mesa Pumping Plant (No. 1.)
- Fifth: Pumping Plants - 1913.
- Sixth: Subtraction of structures abandoned in 1913.
- Seventh: Flume reconstruction - 1913.
- Eighth: Miscellaneous Pipe Lines - 1913.
- Ninth: Telephone line - 1913.
- Tenth: Distributing system - El Cajon Pipe Line - 1913. Began 1913 and finished April 1, 1914.

Eleventh: Lining flume with roofing - 1913-14.

Twelfth: Other book accounts - 1913.

Thirteenth: To check with books - Total of Operating Accounts June 1912 to December 1913.

Fourteenth: Future Development - 1913.

STATEMENT OF ALL EXPENDITURES.

Of all kinds during 1913, as per balances kept open (Mar. 15, 1914) until closed for Railroad Commission Report.

| <u>Item No.</u> | <u>Folio No.</u> | <u>Account - Description</u>              |               |
|-----------------|------------------|---|---------------|
| 1               |                  | U. S. Treasury bond -----                 | \$ 900.00     |
| 2               |                  | Other suspense                            |               |
| 3               |                  | Railroad Comm. Expenses)                  |               |
|                 |                  | Insurance -----                           | 2,200.88      |
| 4               | C-20             | Interest during construction -            | 1,077.48      |
| 5               | C-5              | Landed capital -----                      | 6,167.50      |
| 6               | C-7              | Pumping equipment -----                   | 18,957.75     |
| 7               | C-6              | Pumping capital -----                     | 250.96        |
| 8               | C-13             | Services -----                            | 1,481.96      |
| 9               | C-15             | Meters -----                              | 3,145.68      |
| 10              |                  | General equipment -----                   | 788.68        |
| 11              | C-18             | Tools and equipment -----                 | 751.71        |
| 12              |                  | Pumping expenses -----                    | 3,665.22      |
| 13              | C-19             | Undistributed construction expenses ----- | 61,749.99     |
| 14              | C-18             | Stable and garage -----                   | 572.88        |
| 15              |                  | Distribution expenses -----               | 11,873.04     |
| 16              |                  | Commercial expenses -----                 | 415.17        |
| 17              |                  | General expenses -----                    | 20,911.23     |
| 18              |                  | Taxes - state and county -----            | 3,910.75      |
| 19              | C-8              | Pumping capital -----                     | 1,195.62      |
|                 |                  | Total -----                               | \$ 140,016.00 |

Proceeding to assign Engineering quantities to preceding accounts; transferring to correct, and inserting for appraisement all items belonging to each.

Item 1

U. S. Treasury cash bond as security for performance of certain things in connection with right of way El Capitan Indian Reservation. Should be placed under:

Ledger transfer

|                            |                 |         |
|----------------------------|-----------------|---------|
| To C-5                     | From C-20       |         |
| Right of way - Sand Creek  | Interest during |         |
| syphon - interest on cash  | construction -- | \$56.00 |
| bond \$900 - May 1 to Dec. |                 |         |
| 31 at 6%                   |                 | \$56.00 |

Item 2 and 3

Ledger Transfers

|                         |                                      |  |
|-------------------------|--------------------------------------|--|
| From "other suspension" | To                                   |  |
| Railroad Commission     | (2) E-37 Railroad Commission expense |  |
| Expense and insurance   | (3) E-42 Insurance (operating)       |  |
|                         | C-19-E Injuries and damages          |  |
|                         | during construction.                 |  |

Item 4

C-20 interest during construction

Charge under C-20 to (Flume Reconst.)  
(pumping plants) \$1041.48

Less note in Item 1.

Item 5

C-5 Lended Capital - Total \$6,167.50

distribute:

to pumping plants No 2 (C-5)

|                          |          |
|--------------------------|----------|
| cost of purchase =       | \$167.50 |
| 10 acres land at \$40. = | 400.00   |

to C-2 Franchises and Water rights.

Riparian rights 1 mile  
San Diego River - Koehner property \$4500.00

Items 6, 7, 15 and 19.

Pumping Capital  
Item

|    |     |                               |                    |
|----|-----|-------------------------------|--------------------|
| 7  | C-6 | Structures -----              | \$250.96           |
| 6  | C-7 | Pumping equipment-            | \$18,957.75        |
| 19 | C-8 | Collecting aqueducts, etc --- | 1,195.62           |
|    |     |                               | <u>\$20,404.33</u> |

Item

|    |           |   |                    |
|----|-----------|---|--------------------|
| 15 | Also C-19 | Undistributed construction expenses ----- | \$61,749.99        |
|    |           |   | <u>\$82,154.32</u> |

Item 13 - UNDISTRIBUTED CONSTRUCTION ACCOUNT

| Table "A" Nos.                          | Books        | Post's Listing                               |
|---|--------------|--|
| 1 Sand Creek Syphon ----                | \$ 244.71    | <u>Flume Replacement</u>                     |
| 2 South Fork syphon and flume -----     | 2,085.55     | 1 Sand Creek Syphon ----                     |
| 3 New construction - flume line -----   | 48,438.66    | 2 Concrete conduit ----                      |
| 4 Flume camp -----                      | 1,044.72     | 3 Semi-circ. concrete conduit -----          |
| OP Timber in Trestle No 30 -----        | 27.00        | 4 Steel flume Main Line-                     |
| OP Timber in Sect. C- OP " " " D- ----- | 53.59        | " " " " -----                                |
| RW Redwood side boards                  | 1,149.00     | 5 Raising side boards --                     |
| Deposit with U.S. ---                   | 900.00       | 6 South Fork Feeder Steel flume -----        |
|   |              | 7 Lankershim tunnel ----                     |
|   |              | 8 Tunnel No 13 -----                         |
|   |              | 9 Commissary (loss) ----                     |
|   |              | 10 County roads -----                        |
|   |              | 11 Construction plant ---                    |
|   |              | 12 Camp equipment -----                      |
|   |              | 13 Engineering -----                         |
|   |              | 14 R.R. Commission inquiry                   |
|   |              | 15 Diverting Dam -----                       |
|   |              | 16 Telephone line -----                      |
|   |              | 17 Flume repairs -----                       |
|   |              | 18 Raising side boards Jan-May incl. 1913 -- |
|   |              | 16A add charge telephone                     |
| 12 New telephone line-                  | \$ 54,037.23 | 460.71                                       |
| Carried forward -----                   | \$ 54,527.94 | \$ 48,137.19                                 |

Item 13 UNDISTRIBUTED CONSTRUCTION ACCOUNT

| Distributing System   | Books       | Post's Listing  |
|---|-------------|---|
| Brought Forward--   | \$54,527.94 | \$48,137.19   |
| 5 New pipe lines other than Kensington Park and Normal Heights -----            | 1,172.08    | 19 New Pipe lines other than Kensington Pk & Normal Heights-- Feb \$51.70 Mar 205.75 Dec 914.63   |
| 6 Normal Heights and Kensington Park Jan-May inc. 1913 - Same Apr. to Dec 1913- | 893.37      | 20 H.H. & K.P. Jan-Mar taken care of in Folder No 7m-----   |
|   | 4,183.79    | 21 H.H. & K.P. Apl-Dec to be put in Folder No 8 -----   |
| 7 3" Std. Pipe El Cajon Avenue -----  | 865.44      | 22 To be entered in Group IV  |
|   |             | 23 Charges on flume const. transferred to K.P. & N.H. ---   |
| <u>Future Development</u>   |             |   |
| 8 Boulder Cr. Reservoir Site -----  | 1,252.30    | 24 Boulder Cr. Resv. --   |
| 9 Conejos Reservoir Site -----  | 58.11       | 25 Conejos Res. -----   |
| (Collecting System)   |             | 26 No account of this as settlement of old account guarantee fund - appraised in R.R. appr. ----- |
| 10 Murray Hill Reservoir-   | 595.50      | 27 Poverty Gulch Resvr. Site -----  |
|   |             |   |
| 14 Poverty Gulch Resv. Site -----   | 202.64      |   |
| 15 Right of way and Development -----   | 100.00      |   |
|   | \$63,980.17 | \$ 56,957.57  |

Item 13 Cont'd **UNDISTRIBUTED CONSTRUCTION ACCOUNT**

COMPANY'S BOOKS CONTINUED.

Post's Listing

|   |                       |   |                     |
|---|-----------------------|---|---------------------|
| Brought forward -----   | \$ 63,980.17          |   | \$ 56,957.57        |
| 11 Stream measurements-   | 707.64                | E-1 Stream measurements   | 707.64              |
| 15 Engineering & surveying<br>(not charged to individual constructions) | 505.54                | E-1 Engineering & surveying maintenance work -----  | 505.54              |
| 16 Pumping Plant No 1<br>La Mesa (as a credit on books)                 | 1,189.67 <sup>#</sup> | C-7 Plant No 1 connections with main -----<br>Plant No 1<br>E-6 Power purchased)<br>E-8 Pumping labor ) --- | 100.89<br>2,338.65  |
| Pumping Capital<br>C-6-7-8 -----  | <u>20,404.33</u>      | Plant No 2 -----  | 11,657.67           |
|   |                       | Plant No 3 -----  | 3,710.56            |
|   |                       | Plant No 4 -----  | 640.09              |
|   |                       | Operating Nos 2-3-4<br>Sept-Nov 1913 -----  | <u>1,524.20</u>     |
|   | <u>\$ 84,407.91</u>   |   | <u>\$ 77,942.81</u> |

<sup>#</sup> = Red figure.

COMPANY'S BOOKS CONTINUED

|   |                       |  |                              |
|---|-----------------------|--|------------------------------|
| Brought forward -----                       | \$ 84,407.91          |  | \$ 77,942.81                 |
| <u>For checking</u><br>deduct items page 7. |                       | Operating No 1(a)<br>La Mesa<br>auxilliary -----   | 44.25                        |
| O P Timber                                  | \$27.00               | Distribution Const.<br>Expense Normal Heights<br>& Kensington Park pipe<br>turned over -----         | ( 175.65<br>17.00            |
| " "   | 33.59                 | Flume repairs ohg.<br>to construction -----  | 48.45                        |
| " "   | 144.00                | Construction Plant<br>saw mill engine -----  | 249.06                       |
| RW sideboards                               | 1149.00               | Flume repairs made<br>by Kingsley -----  | 87.52                        |
| Deposit                                     | <u>900.00</u>         | Difference partly accounted<br>for by sub-item 10<br>Murray Hill (future<br>development)-Page 8 ---- | 595.50                       |
|   | 2,253.59 <sup>#</sup> | Unreconciled - probably<br>operation or repairs ---  | <u>2,994.08</u>              |
|   |                       |  | <u>\$ 82,154.32</u><br>***** |
|   |                       |  | <u>\$ 82,154.32</u><br>***** |

<sup>#</sup> = deduction

Item 12 Pumping Expenses

|                      |             |                       |           |
|----------------------|-------------|-----------------------|-----------|
| <u>Company Books</u> |             | <u>Post's Listing</u> |           |
| Pumping Expenses     | \$ 3,665.22 | 1 C-7 Plant No 1      |           |
|                      |             | connections with      |           |
|                      |             | main -----            | \$ 100.00 |
|                      |             | 2 Power Purchased --- | 2,558.65  |

Items 8-9

|                 |             |                         |
|-----------------|-------------|-------------------------|
| Services - C-15 | \$ 1,481.96 | Appraisalment of Normal |
| Meters - C-15   | 3,145.68    | Heights and Kensington  |
|                 |             | Park to April 1,        |
|                 |             | Services -              |
|                 |             | Meters -                |

To be placed on remaining  
appraisalment of Normal  
Heights and Kensington  
Park:  
Services -  
Meters -

--APPRAISEMENT.--

Items 10, 11 and 14

|                           |           |               |
|---------------------------|-----------|---------------|
| 10 General equipment----- | \$ 788.68 | Use inventory |
| 11 Tools and equipment -- | 751.71    | Remainder     |
|                           |           | depreciation  |
| 14 Stable and garage ---- | 572.88    |               |

Items 15, 16, 17 and 18

|                         |             |                      |
|-------------------------|-------------|----------------------|
| Distribution expense -- | \$11,873.04 | Post's listing same. |
| Commercial expenses --- | 415.17      |                      |
| General expenses -----  | 20,911.23   |                      |
| State & county taxes -- | 3,910.75    |                      |

(Mathews furnishing to P.E.H)

APPRAISEMENT

See P. 1. First: For this date (Before June 1, 1912) reference is made to Lane's Folders.

| Index                  | Out No 1 | R R Exhibit No 2 |
|------------------------|----------|------------------|
| Valuation Detail       | No 2     | No 3             |
| Quantity               | No 3     | No 4             |
| Cost data              | No 4     | No 5             |
| Letters and Memorandum | No 5     | No 6             |
| Present Value          | No 6     | No 7             |

Principal changes will be on Flume as given hereafter.

## Page 1 - "Third"

Normal Heights and Kensington Park inventory and appraisement - from April 1 to December 31, 1913. "Supplementary No 2"

Note: The book accounts are as follows:

(from Company Books)

| Normal Heights and Kensington Park  |             |
|---|-------------|
| Pipe and Labor -----  | \$ 2,183.79 |
| Services, pipe and labor -----  | 1,652.75    |
| Meters - purchase -----   | 3,222.65    |
| From Page 10, Note: distribution construction expense, N.H. & K.P. pipe turned over from Flume construction ----- | 175.65      |
| ditto -----   | 17.00       |
|   | <hr/>       |
|   | \$ 7,241.84 |

From Page 8- Item 7--3" Pipe line El Cajon Ave. 865.44  
 Note: There also existed a stock of pipe on April 1, i.e. bought before April 1st. \$ 8,107.28

The operation of taking out pipe taken over from the old Kensington Park and Normal Heights Co's. was continued, relaid as 2nd hand pipe, was continued. This accounts for the pipe noted as 25%, 50% etc, depreciation.

This brings the appraisement somewhat above the book accounts.

COST OF ANALYSISDelivery to Warehouse (as in supplementary No 1)

|                               |         |
|-------------------------------|---------|
| Take as in supplementary No 1 |         |
| 3/4" pipe standard            | \$ .013 |
| 1" " "                        | .013    |
| 2" " "                        | .010    |
| 3" " "                        | .010    |

Haulage from Warehouse to work

|                               |        |
|-------------------------------|--------|
| Take as in supplementary No 1 |        |
| 3/4" standard pipe            | \$ .01 |
| 1" " "                        | .01    |
| 2" " "                        | .015   |
| 3" " "                        | .016   |



## WESTERN METAL SUPPLY COMPANY

## QUOTATION

Subject to change without notice.

TRADE PRICES RANDOM LENGTHS

Date August 12, 1913

|      | <u>Black</u> | <u>RR</u> | <u>Dip</u> | <u>Galv</u> |
|------|--------------|-----------|------------|-------------|
| 3/4" | 3.50         |           | 3.80       | 4.35        |
| 1"   | 4.85         |           | 5.35       | 6.40        |
| 2"   | 10.55        |           | 11.55      | 15.90       |
| 3"   | 21.80        |           | 23.80      | 29.65       |

Pipe Fittings

Use 5% of straight pipe cost to cover special fittings.

DITCHING AND LAYINGPAYROLLS FOR DITCHING AND LAYING PIPE, ETC.Kensington Park and Normal Heights.

From April, 1913 to January 1914.

| <u>Payroll</u>    |      | <u>H.H. &amp; K.P.</u> | <u>El Cajon Ave.</u> |      | <u>Meters</u> |
|-------------------|------|------------------------|----------------------|------|---------------|
|                   |      | <u>Labor</u>           | <u>Pipe</u>          |      |               |
| April 1913        | No 5 | \$362.00               | No 5 \$280.59        | No 5 | \$ 74.25      |
| May 1913          | 5    | 617.05                 | 5 27.00              | 5    | 74.25         |
| June 1913         | 5    | 584.35                 |                      | 5    | 71.50         |
| July "            | 5    | 288.50                 |                      |      |               |
| Aug "             | 4    | 227.50                 |                      | 4    | 96.75         |
| Sept "            | 4    | 100.90                 |                      | 4    | 79.30         |
| Oct "             | 4    | 133.50                 |                      | 4    | 204.75        |
| Nov "             | 4    | 95.00                  |                      | 4    | 63.25         |
| Dec "             | 4    | 109.65                 |                      | 4    | 71.50         |
| Totals -----      |      | \$2518.45              | \$307.50             |      | \$735.55      |
| El Cajon Pipe --- |      | 307.30                 |                      |      |               |
|                   |      | \$2825.75              |                      |      |               |

TOTAL PIPE LAID.

|                  |                       |
|------------------|-----------------------|
| 1" standard pipe | 1,262 lin.ft.         |
| 2" " "           | 8,106 "               |
| 3" " "           | 5,070 "               |
|                  | <u>14,438 lin.ft.</u> |

|               |           |
|---------------|-----------|
| \$2825.75     |           |
| <u>14,438</u> | = \$ .195 |

-----000-----

SUMMARY OF PRICE PER FOOT OF PIPE LAID

|                                       | <u>1"</u>   | <u>2"</u>   | <u>3"</u>   |
|---------------------------------------|-------------|-------------|-------------|
| Cost of pipe<br>f.o.b San Diego ----- | .053        | .116        | .238        |
| Delivery to<br>warehouse -----        | .013        | .01         | .01         |
| Delivery- warehouse<br>to work -----  | .012        | .015        | .016        |
| Cost of trenching<br>and laying ----- | <u>.195</u> | <u>.195</u> | <u>.195</u> |
|                                       | .273        | .336        | .459        |
| USE -----                             | .27         | .54         | .46         |

QUANTITIES

Detail Inventory of All Pipe  
In Normal Heights and Kensington Park.  
Laid between April 1st and December  
31st, 1913, not listed in supplemen-  
tary appraisalment to April 1, 1913.

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INVENTORY OF PIPE LAID

| <u>Index Map</u>                  | <u>Length</u> | <u>Date Laid</u> | <u>Percent Condition</u> |
|-----------------------------------|---------------|------------------|--------------------------|
| <u>3/4" Standard Dipped Pipe.</u> |               |                  |                          |
| S-I                               | 300 ft.       | May 5            | 100%                     |
| S-I                               | 777           | " 12             | 100                      |
| S-I                               | 147           | June 2           | 100                      |
| S-I                               | 95            |                  | 100                      |
| S-I                               | 250           |                  | 100                      |
| S-I                               | 150           |                  | 100                      |
| S-I                               | 100           | May 16           | 100                      |
| S-I                               | 120           | May 24           | 100                      |
| S-I                               | 150           | June 27          | 100                      |
| S-I                               | 30            | Aug 14           | 100                      |
| S-I                               | 100           |                  | 100                      |
| S-I                               | 63            |                  | 100                      |
| S-I                               | 40            | May 10           | 100                      |
| S-H                               | 100           |                  | 100                      |
| 1-J                               | 40            | Aug 2            | 100                      |
| 2-J                               | 60            |                  | 100                      |
| 2-J                               | 120           |                  | 100                      |
| 3-J                               | 150           |                  | 100                      |
| 3-J                               | 66            |                  | 100                      |
| 3-J                               | 20            |                  | 100                      |
| 3-J                               | 40            |                  | 100                      |
| 2-I                               | 80            | Mar 18           | 100                      |
| 3-I                               | 80            |                  | 100                      |
| 3-I                               | 18            |                  | 100                      |
| 2-H                               | 63            | May 9            | 100                      |
| 2-I                               | 80            | Oct 8            | 100                      |
| 2-I                               | 12            | Sep 20           | 100                      |
| 2-I                               | 60            | Oct 8            | 100                      |
| 4-I                               | 42            | Sep 15           | 100                      |
| 2-I                               | 20            | " 20             | 100                      |

3320 ft.

1" Standard Dipped Pipe.

|     |     |         |     |
|-----|-----|---------|-----|
| S-I | 160 | July 17 | 30% |
| S-I | 57  | " 17    | 100 |
| S-I | 120 | July 18 | 100 |
| S-I | 50  |         | 100 |
| S-I | 220 |         | 100 |
| 1-J | 118 | Aug 2   | 100 |
| 1-J | 225 |         | 75  |
| 1-J | 240 | June 30 | 100 |
| 3-J | 55  |         | 100 |
| 2-H | 37  | May 9   | 100 |

1262 ft.

2" Standard Dipped Pipe.

| <u>Index Map</u>     | <u>Length</u> | <u>Date Laid</u> | <u>Percent Condition</u> |
|----------------------|---------------|------------------|--------------------------|
| S-I                  | 100           | May 12           | 100%                     |
| S-I                  | 575           | " 12             | 50                       |
| S-I                  | 40            | May 22           | 100                      |
| S-I                  | 50            |                  | 50                       |
| S-I                  | 450           |                  | 50                       |
| S-I                  | 40            | May 13           | 100                      |
| S-I                  | 360           | May 16           | 100                      |
| S-I                  | 280           |                  | 50                       |
| S-I                  | 175           | June 27          | 100                      |
| S-I                  | 20            |                  | 100                      |
| S-I                  | 40            | June 5           | 100                      |
| S-I                  | 50            | Aug 19           | 100                      |
| S-I                  | 360           | Apr 19           | 100                      |
| S-H                  | 500           | June 13          | 50                       |
| 2-I                  | 200           |                  | 100                      |
| 1-J                  | 250           | June 30          |                          |
| 2-J                  | 824           | July 5           | 100                      |
| 2-J                  | 300           |                  |                          |
| 2-J                  | 625           |                  | 100                      |
| 2-J                  | 60            | July 1           | 100                      |
| 3-J                  | 265           |                  |                          |
| 3-J                  | 200           |                  | 100                      |
| 3-J                  | 60            | Apr 22           | 100                      |
| 3-J                  | 156           | " 23             | 100                      |
| 3-I                  | 288           | Mar 13           | 100                      |
| 3-I                  | 281           | Aug 6            | 100                      |
| 3-I                  | 53            | Aug 23           | 100                      |
| 2-H                  | 408           | May 9            | 100                      |
| 2-I                  | 60            | Oct 8            | 50                       |
| 4-I                  | 40            | Sep 15           | 50                       |
| 2-I                  | 176           | " 20             | 100                      |
| S-I                  | 190           | May 10           | 50                       |
| <del>Total 600</del> |               | June 5           | 50                       |
| Total 2" 8106 ft.    |               |                  |                          |

3" Standard Dipped Pipe

|     |      |         |      |
|-----|------|---------|------|
| S-I | 745  | May 5   | 100% |
| S-J | 648  |         | 100  |
| S-J | 785  | June 14 | 100  |
| S-J | 624  | Aug 7   | 100  |
| 2-H | 1056 | May 9   | 50   |
| 2-H | 1094 | May 9   | 100  |
| 2-I | 117  | Oct 8   | 100  |

Total 3" -- 5070

4" Cast Iron Pipe.

|     |       |      |      |
|-----|-------|------|------|
| S-J | 24 ft | 1913 | 100% |
|-----|-------|------|------|

REPRODUCTION COST AND PRESENT VALUE.

Normal Heights and Kensington Park - Supplementary No 2  
April-December 1915.

| Size   | Lin. ft.    | Unit Price | Cost of Reproduction |           | Depreciation |        | Present Value Jan. 1, 1914. |          |
|--|-------------|------------|----------------------|-----------|--------------|--------|-----------------------------|----------|
|  |             |            | Sub Total            | Total     | Percent      | Amount | Sub Total                   | Total    |
| 1"   | 977         | \$.27      | \$235                |           | new          | \$ 0   | \$235                       |          |
| 1"   | 160         | .27        | 41                   |           | 70%          | 28     | 13                          |          |
| 1"   | 225         | .27        | 61                   |           | 25%          | 15     | 46                          |          |
|  | <u>1552</u> |            |                      | \$ 337    |              |        |                             | \$ 294   |
| 2"   | 5361        | .54        | 1823                 |           | new          | 0      | 1823                        |          |
| 2"   | 2745        | .54        | 933                  |           | 50%          | 467    | 466                         |          |
|  | <u>8106</u> |            |                      | 2786      |              |        |                             | 2289     |
| 3"   | 4014        | .46        | 1846                 |           | new          | 0      | 1846                        |          |
| 3"   | 1056        | .46        | 486                  |           | 50%          | 243    | 243                         |          |
|  | <u>5070</u> |            |                      | 2322      |              |        |                             | 2089     |
| 4"   | 24          | .63        |                      | 15        | new          | 0      | 15                          |          |
| Totals - pipe -                              |             |            |                      | \$ 5440.  |              |        |                             | \$ 4687. |
| Specials and fittings 5%                     |             |            |                      |           |              |        |                             | 234.     |
| Services and meters:                         |             |            |                      |           |              |        |                             |          |
| Meters 268 at \$7.75                         |             |            |                      | \$2077.50 |              |        |                             |          |
| Cost of installing                           |             |            |                      |           |              |        |                             |          |
| Meter payroll                                |             |            | \$735.55             |           |              |        |                             |          |
| Services payroll                             |             |            | 1481.95              | 2217.50   |              |        |                             |          |
| 3/4" pipe 3320 lin. ft.<br>@ \$.06 delivered |             |            |                      | 199.00    |              |        | 4494.                       |          |
|  |             |            |                      |           |              |        | \$ 9415.                    |          |

PIPE ABANDONED BY PRECEDING OPERATIONS

(1915 April-December)

List of Pipe Abandoned, disconnected and left in ground, April 1st to December 31st, 1915.

| Index-Map | Size | Length | Percent Condition |
|-----------|------|--------|-------------------|
| S-I       | 1"   | 790 ft | 50%               |
| S-I       | 1"   | 421    | 30                |
| S-I       | 1"   | 650    | 20                |
| S-I       | 1"   | 175    | 50                |
| S-I       | 1"   | 930    | 30% & 90%         |
| S-I       | 1"   | 1780   | 20%               |
| I-J       | 2"   | 262    | 25                |
| S-J       | 2"   | 690    | 30                |
| S-J       | 2"   | 154    | 30                |
| S-J       | 2"   | 534    | 65                |
| S-J       | 1"   | 230    | 50%               |

List of pipe abandoned, taken up, and used elsewhere.

It is again appraised where put down.

| Index-Map | Size | Length | Percent Condition |
|-----------|------|--------|-------------------|
| S-J       | 2"   | 300 ft | 40%               |
| S-J       | 2"   | 265    | 50                |
| I-J       | 1"   | 225    | 75                |
| S-I       | 2"   | 290    | 90                |
| S-I       | 2"   | 410 ft | 70%               |

Valuation of Pipe Abandoned or relaid in preceding operations,  
to be subtracted from Appraisalment.

Total of 1" old pipe listed in supplementary appraisalment No 1,  
(see P. 1) within Area of Map No 3-I totals 4486 lin.ft.

The abandoned pipe in the same area listed in supplementary No 2  
totals 4735 lin.ft., showing all the listed pipe to be abandoned, and  
in addition 250 lin.ft. surplus pipe discovered in relaying, not  
previously listed and now abandoned.

Within Area of Map 3-I, 290 ft 90% condition and 410 ft. of  
70% condition of 2" pipe is abandoned in supplementary No 2, which  
appears in list of supplementary No 1.

Within area of Map 1-J 225 ft of 1" pipe and 262 ft 2" pipe is  
abandoned in supplementary No 2, which appears on No 1.

Within area of Map 2-J, 824 ft 2" pipe 30% condition and 300 ft  
2" pipe 40% condition is abandoned, of that appearing on No 1. list.

Within area of Map 3-J, 265 ft 2" pipe 50% condition and 534 ft  
2" pipe 65% condition is abandoned, of that appearing on No 1 list.

Within area of Map 3-J, 250 ft 1" pipe 50% condition is abandoned.

THE AMOUNTS TO BE WRITTEN OFF ARE:

(See Pgs 1 and 12 of Supplementary No 1)

| Quantity               | Unit Price | Cost of Reproduction | Condition | Depreciation |                | Present Value<br>Jan. 1, 1915 |
|------------------------|------------|----------------------|-----------|--------------|----------------|-------------------------------|
|                        |            |                      |           | Per cent     | Amount         |                               |
| <u>1" Pipe Map 3-I</u> |            |                      |           |              |                |                               |
| 500 ft                 | \$.25      | \$75.                | 90%       | 10%          | \$ 7.          | \$58.                         |
| 1005                   | .25        | 251                  | 50%       | 50           | 125.           | 125.                          |
| 761                    | .25        | 190                  | 50%       | 70           | 133.           | 57.                           |
| 2420                   | .25        | 605                  | 20%       | 80           | 485.           | 120.                          |
| <u>2" Pipe Map 3-I</u> |            |                      |           |              |                |                               |
| 290 ft                 | .52        | \$ 92.               | 90%       | 10           | \$ 9.          | \$ 84.                        |
| 410                    | .52        | 122                  | 70%       | 30           | 39.            | 92.                           |
| <u>1" Pipe Map 1-J</u> |            |                      |           |              |                |                               |
| 225 ft                 | .25        | 56.                  | 75%       | 25           | 14.            | 42.                           |
| <u>2" Pipe Map 1-J</u> |            |                      |           |              |                |                               |
| 262 ft                 | .52        | 94.                  | 25%       | 75           | 63.            | 21.                           |
| <u>2" Pipe Map 2-J</u> |            |                      |           |              |                |                               |
| 824 ft                 | .52        | 264.                 | 30%       | 70           | 185.           | 79.                           |
| 300                    | .52        | 96.                  | 40%       | 60           | 57.            | 39.                           |
| <u>2" Pipe Map 3-J</u> |            |                      |           |              |                |                               |
| 265 ft                 | .52        | 83.                  | 50%       | 50           | 42.            | 41.                           |
| 534                    | .52        | 170                  | 65%       | 35           | 59.            | 111.                          |
| <u>1" Pipe Map 3-J</u> |            |                      |           |              |                |                               |
| 250 ft                 | .25        | 62.                  | 50%       | 50           | 31.            | 31.                           |
|                        |            | <u>\$2160.</u>       |           |              | <u>\$1240.</u> | <u>\$940.</u>                 |

See Page 1 "Fourth" Other New Construction 1912.

RAISING DIVERTING DAM

August 1912

|   |                  |               |
|---|------------------|---------------|
| steel gates                                   | See Voucher 760. |               |
| 1 - 24 x 24 rectangular sluice gate           |                  | \$ 197.50     |
| 1 - 30 x 30 " " "                             |                  | 269.50        |
| 2 - 36 x 24 " " "                             |                  | 442.00        |
| Cartage and freight San Diego to Lakeside --- |                  | 12.42         |
| Labor installing Diverting Dam Gates:         |                  |               |
| Payroll No 1 August 1912                      |                  | 503.30        |
| Payroll No 1 September 1912                   |                  | <u>859.60</u> |
|   |                  | \$ 2,284.32   |

Note: The labor item is high on account of by-pass of water, through a flume several hundred feet long, maintaining a dam etc.

BOULDER CREEK MEASURING WEIR.

August 1912

|  |               |
|--|---------------|
| Concrete 10 cu yd at \$12.00           | \$ 120.00     |
| Lumber 500 ft B/M at \$30.00           | 15.00         |
| Blasting, excavating and erecting weir | <u>507.00</u> |
|  | \$ 442.00     |

MEASURING STATION BELOW DIVERTING DAM

August 1912

|                    |               |
|--------------------|---------------|
| Anchors            | \$ 65.00      |
| Cable and supports | 35.00         |
| Labor - erecting   | <u>103.00</u> |
|                    | \$203.00      |

OLD MISSION DAM CABLE MEASURING STATION

September 1912

|  |              |
|--|--------------|
| Cables (Voucher 800 Hazard-Gould Co)   | \$ 26.35     |
| Erecting - Payroll No 1 September 1912 | 65.00        |
| Automatic Register "Bristol Gage"      | 57.00        |
| Erecting                               | <u>35.00</u> |
|  | \$ 183.35    |

LA MESA PUMPING PLANT NO. 1.

Installed September-1912.

|   |               |              |
|---|---------------|--------------|
| 1 - 150 H.P. General Electric induction motor #521341 - Type 1-8-150A - Form F Cycles 60 - 178 amperes - 440 volts. |               |              |
| 1 - compensator   |               |              |
| 1 - paper pulley - 17" face Dia. 20 1/2"  |               |              |
| 1 - base #188998  |               | \$ 899.10    |
| 1 - switch, insulators, fuses, etc  | \$ 41.77      |              |
| Cartage   | 13.50         |              |
| Labor installing  | 53.28         |              |
| (See Vo No 772 S D Gas & Elec Co)   |               | 88.55        |
| 1 - Melfort pulley - 18" x 24"  | 12.83         |              |
| 55 lin.ft. 14" double leather belt  | <u>184.40</u> | 197.23       |
| (See Vo No 752 Byron-Jackson Iron Wks)  |               |              |
| 1 - 6" Kroh 2 stage pump See No No 759<br>C L Good  |               | 400.00       |
| September 1912 pipe and labor replacing pipe connections with larger pipe   |               | 101.00       |
| Building - Lumber No No 766   |               | 44.57        |
| Labor erecting  |               | <u>80.00</u> |
|   |               | \$ 1,750.45  |

See Page 1 "Fifth"

PUMPING PLANT NO 2

At Chocolate Canyon - erected Sept-1913. Capacity

50 miners inches. Lift 200 feet.

Land devoted to plant, wells and access 10 acres a \$50 ---- \$ 500.00

50 H.P. Fairbanks Morse Gas Engine, 4"-5-stage Byron Jackson centrifugal pumped. Erected contract price with Hazard-Gould & Co. ----- 2,928.  
5,000.00  
Extra foundation ----- 169.00

*10-1301, 1311, 1343 and 1386.*

*Teams* Hazard-Gould & Co. auxiliary apparatus and extra labor in erection ~~Freighting and freight, teams in connection with engine & pump.~~ ----- 1,146.06  
2,500.72  
2,374.65

Concrete pump well, 9'x9'x12' - 1 foot thick reinforced Excavation 150 c.y. at \$50 ----- \$ 75.00  
Concrete 70 c.y. at \$14.30 ----- 1001.00  
Roof timber 2600 ft.B.M. at \$30. ----- 78.00  
Roofing laid ----- 50.33  
1,184.33

Discharge pipe 8" O.D. screw casing in place and trenching 900 lin.ft. at \$0.99 ----- 889.89

Suction pipe in place - 375 ft. 6" standard pipe 300 ft. 4" standard pipe, 150 ft. 4" casing - valves, wyes and elbows ----- 1,250.75

Wells:

Well No 1 10" dia. 17 lin.ft. casing stuck and abandoned- 151.90  
Well No 2 10" dia. 46 lin.ft. drilled, cased and perforated 46 lin.ft. at \$5.58 ----- 256.60  
Well No 3 24" dia. 47 ft. deep. Drilled, cased and perforated. Special drill tools required causing higher cost - 47 lin.ft. at \$20.65 ----- 972.85  
Well No 4 24" dia. 42 ft. deep same as No 3 -- 42 feet at \$22.40 ----- 940.09  
Shaft "A" 42" dia. timbered and concrete curb 20 ft deep 20 lin.ft. at \$25.95 ----- 519.57

Trench and Gallery - this is in river bed as an open trench in which placed a timber gallery, terminating in a steel shaft "B" 42" diameter.  
Shaft "B" - 12 feet a \$25 ----- \$ 312.00  
Gallery 60 " " \$3 ----- 180.00  
Trenching 500 " " \$1.79 ----- 895.69  
1,587.69

Pump House 12' x 16' x 20' timber frame covered with corrugated iron - timber 700ft. B/M a \$60 erected ----- 42.00  
corrugated iron in place ----- 205.99

Total ----- \$14,959.55

Note: Special conditions, great urgency to start plant, which was in operation within a month of beginning. Two well rigs on the job, transportation charges large, one rig being hauled 60 miles and returned. Large boulders interfered with drilling, requiring shafts etc, taken out by hand to complete wells at same time as power plant.

PUMPING PLANT NO 3.

Near School House of Indian Reservation. Capacity

30 miners inches. 140 foot lift. Erected September 1913.

1 - 15 H.P. Fairbanks-Morse Engine delivered and erected - 2nd hand 2 yrs use ----- \$ 650.00

1 - Dean vertical Triplex pump 8" x 8" catalogue Fig 1694. see attached cut - Purchase price ----- 570.  
690.00

Erection, delivery of pump, preparation of site ----- 204.80

Belts, pulleys, check valves, valves, specials and fittings ----- 421.28

5 wells in all 225 lin.ft. 10" casing ----- 916.00

Discharge pipe 6" O.D. casing 340 lin.ft. in place at \$1.05 ----- 357.00

Suction pipe 4" O.D. casing 275 lin.ft. in place a \$.75 203.50

Suction pipe 3" standard 227 lin.ft. in place a ----- 166.50

\$ 3,608.08

Note: Erection conditions similar to No 2. In 1914, flood waters undermined foundation sufficiently to make desirable disconnecting pump and housing upon safe ground; the situation of date (Apl 1914)

PLANT NO 4.

Located 1,000 feet below Diverting Dam. Capacity 10  
miners inches. Lift 40 feet.

|  |                  |
|--|------------------|
| 7 H.P. Gas Engine delivered and erected -----    | \$ 415.00        |
| Shaft 6' x 6' x 20' deep -----                   | 225.10           |
| 3½" Byron Jackson centrifugal pump erected ----- | 80.00            |
| Belt pulleys suction and discharge pipe -----    | 90.00            |
|  | <u>\$ 810.10</u> |

Note: Erection August-1913. New (April 1914)  
engine and pump have been removed to avoid  
floods and are placed in storage.

General charge to be distributed to and on  
account of Pumping Plants, No. 2, No. 3 and No. 4.

|   |            |
|---|------------|
| Legal expense in connection with pumping injunction | \$2,457.93 |
| Premium on bond Oct. 1 - Dec. 31, 1918 -----        | .....      |

See Page 1 "Ninth"

Subtraction of structures abandoned in 1915.

|  |                      |
|--|----------------------|
| 1 Flume abandoned by construction of Sand Creek Syphon<br>on new location and right of way ----- | 2,640 lin.ft.        |
| 2 Flume torn out and replaced by steel on concrete<br>on original bench:                         |                      |
| on 4th mile -----  | 306 "                |
| Between South Fork and Chocolate -----   | 1,953 "              |
| Below Chocolate -----  | 497 "                |
| Near end of Flume -----  | 212 "                |
|  | <u>5,608 lin.ft.</u> |

The Lane appraisement obtained the following

values on 166,364 lin.ft. of Redwood flume on bench

| and trestles:  | Total Present Value | Per Foot.  |
|----------------|---------------------|------------|
| Clearing       | \$ 2800.            | .018       |
| Excavation     | 72488.              | .435       |
| Redwood lumber | 56530.              | .34        |
| R O P lumber   | 16522.              | .10        |
|                |                     | <u>.89</u> |
|                | Total per foot ---- | .89        |

Amounts to be charged off:

|                                      |                    |
|--------------------------------------|--------------------|
| On (1) 2,640 lin.ft. at \$0.89 ----- | \$ 2,349.60        |
| On (2) 2,968 lin.ft. at \$0.44 ----- | 1,305.90           |
|                                      | <u>\$ 3,655.50</u> |

Telephone line - Los Cochon to Diverting Dam replaced  
for 17 miles - Lane gives for 62 miles value of  
\$456.00 or \$7.40 per mile. Hence:

|                               |           |
|-------------------------------|-----------|
| Charged off 17 x \$7.40 ----- | \$ 125.80 |
|-------------------------------|-----------|



See Page 1 "Seventh"

FLUME RECONSTRUCTION 1913

Sand Creek Syphon (This is a complete relocation on new right of way, and abandons a portion of flume) 42" reinforced concrete pipe 1,227 feet long, under a maximum head of 78 feet. Contract let June-1913.

Excavation trench and backfill - trench 5 feet wide and average 5 feet deep. 1:1 slopes, 2,450 cu. yds. at ~~EX.~~ \$1.10 ----- \$ 2,675.67

Reinforced pipe in place, contract price with Reinforced Concrete Pipe Co., 1,227 lin.ft. at \$4.05 4,969.55

Sand was guaranteed to contractor at \$1.00 per yard, and crushed rock at \$2.00 per yard. The actual cost to the Company was \$2.50 for sand and gravel - averaged.  
Less on sand 146 yds. at \$1.50 \$219.00  
Less on rock 158 " " \$ .50 79.00 ----- 298.00

Foredays:  
Cement 325 sacks at \$.69 ----- \$224.25  
Gravel 82 c.y. at \$2.50 ----- 205.00  
Steel and labor ----- 231.50 ----- 660.75

Sand Creek Syphon continued

Right of way - interest on cash bond \$900.00 - for observance of U.S. Government requirements on Indian Reservation. Deposited May 1913 and not returned to date.

Estimated period of holding bond  
2 years. \$900 at \$.08 2 years \$144.00

Concrete Conduit Sections 3 ft wide on bottom, 3 to 4 feet deep - 1/2 to 1 slope, light reinforcing; or 5'x4' square section reinforced, 1,350 lin.ft. in all - capacity 2,000 miners inches. Aug-Oct-1913.

|   |             |
|---|-------------|
| Excavation - 1600 cu.yds at \$1.10 -----                  | \$ 1,769.19 |
| Concrete in place - reinforced 330 cu.yds at \$14.00----- | 4,622.64    |
| Cost per foot \$4.75 -----                                | \$ 6,391.83 |

Concrete Conduit. Semi circular 2" thick, diameter 6 feet. Depth 3 1/2 feet, reinforced. "Cement Gun" process. Capacity 1,500 miners inches. 212 lin.ft. in place.

|                      |           |
|----------------------|-----------|
| Contract price ----- | \$ 465.95 |
|----------------------|-----------|

Steel Flume. Hess Flume Co. "Toncan Metal" and California Corrugated Culvert Co. "Ingot Metal" 99.8% pure. Semi-circular section, 5'9-3/4" diameter. No 108 flume in catalogue of both companies. No 20 gage, galvanized.

4th Mile Trestle No 30. 80 lin.ft. straight alignment.

|  |           |
|--|-----------|
| Steel F.O.B. Lakeside 80 lin.ft. at \$2.10 -----       | \$ 168.00 |
| Timber 1,500 ft. B/M at \$18.00 -----                  | 27.00     |
| Delivery, erection, concrete piers and placing steel - | 497.89    |
| Cost \$8.66 per foot -----                             | \$ 692.89 |

Between South Fork and Chocolate 1953 lin.ft. trestles.

|                                 |             |
|---------------------------------|-------------|
| Excavation -----                | \$ 1,039.54 |
| Concrete piers -----            | 442.55      |
| Trestle Substructure            |             |
| Plates and bolts -----          | \$259.46    |
| Timber 2nd hand 4 x 6 and 8 x 8 |             |
| 26,300 ft. B/M at \$18.00 ----- | 473.40      |
| Labor erection -----            | 1,216.28    |
| Freighting material -----       | 421.85      |
|                                 | 1,949.14    |

Superstructure

|  |          |
|--|----------|
| Steel Flume 1953 lin.ft. at \$1.95               |          |
| average straight and curved -----                | 3,806.00 |
| Erection and freighting steel -----              | 330.40   |
| Plates and bolts -----                           | 103.44   |
| Timber 2nd hand, 15,500 ft. B/M at \$18.00 ----- | 279.00   |
| Erecting -----                                   | 947.65   |
| Construction roads -----                         | 158.00   |
| Bye pass of water -----                          | 106.12   |

|                            |             |
|----------------------------|-------------|
| Cost per foot \$4.90 ----- | \$ 9,583.69 |
|----------------------------|-------------|

Below Chocolate 497 lin.ft. trestles

|                      |           |
|----------------------|-----------|
| Excavation -----     | \$ 324.25 |
| Concrete piers ----- | 145.85    |

Substructure

|                                |          |
|--------------------------------|----------|
| Plates and bolts -----         | \$ 51.80 |
| Timber 2nd hand, 3,734 ft. B/M |          |
| at \$18.00 -----               | 67.20    |
| Freight -----                  | 63.95    |
| Erection labor -----           | 488.20   |
|                                | 700.25   |

Superstructure

|                                      |          |
|--------------------------------------|----------|
| Steel 497 lin.ft. at \$2.15 -----    | 1,070.10 |
| Timber 8000 ft. B/M at \$18.00 ----- | 144.00   |
| Erection and placing -----           | 240.60   |
| Freight -----                        | 24.75    |
| Construction roads -----             | 72.25    |

|                            |             |
|----------------------------|-------------|
| Cost per foot \$5.50 ----- | \$ 2,722.05 |
|----------------------------|-------------|

RAISING SIDE BOARDS.

This consists of placing an extra Redwood top board 12" to 14" high along the flume, increasing capacity from 900 to 2,000 miners inches.

On account of increased weights and strains, an extra post and sill is run between existing posts and trestle bents are doubled, all from old material.

In my opinion, the redwood side boards should be considered new construction and go to capital account as a definite increase to the size and capacity of the structure. In as much (suggested by Mr. Harroun) that the old post and sill construction would have been strong enough not to require the extra sets, these should appear as repairs, not as capital.

It will be understood that at least two men have been constantly on this increased side board work, since the raising of Diverting Dam.

RAISING SIDE BOARDS

June 1912 - December 1913.

Sand Creek to Tunnel No 2 Main Flume 2535 Lin.ft.

|                             |    |                  |
|-----------------------------|----|------------------|
| October 1913                |    |                  |
| Redwood lumber End hand     |    |                  |
| 10,000 f.b.m. at \$30.----- | \$ | 300.00           |
| Nails -----                 |    | 7.50             |
| Labor erecting -----        |    | 96.05            |
|                             |    | <u>\$ 403.55</u> |

Section C - Main Flume - 4630 Lin.ft.

|                                |    |                 |
|--------------------------------|----|-----------------|
| November 1913                  |    |                 |
| Redwood lumber End hand        |    |                 |
| 87,000 f.b.m. at \$30.00 ----- | \$ | 2610.00         |
| Erecting -----                 |    | 452.49          |
| Nails -----                    |    | 20.00           |
|                                |    | <u>1,292.49</u> |

Section D - South Fork Feeder - 400 Lin.ft.

|                               |    |              |
|-------------------------------|----|--------------|
| November 1913                 |    |              |
| Redwood lumber End hand       |    |              |
| 1,300 f.b.m. at \$30.00 ----- | \$ | 39.00        |
| Erecting -----                |    | 23.40        |
| Nails -----                   |    | 1.00         |
|                               |    | <u>63.40</u> |

Note: Before cost keeping was begun in June 1913 by Post "new construction flume line" was charged on company books as follows:

|      | <u>1912</u>      |      | <u>1913</u>      |
|------|------------------|------|------------------|
| June | \$ 222.90        | Jan  | \$ 94.00         |
| July | 232.85           | Feb  | 154.85           |
| Aug  | .00              | Mar  | 1883.62          |
| Sep  | .00              | Apr  | 352.35           |
| Oct  | 192.65           | May  | 452.20           |
| Nov  | 645.90           | June | 1215.54          |
| Dec  | 99.00            |      |                  |
|      | <u>\$1591.30</u> |      | <u>\$4256.56</u> |
|      |                  |      | 2847.02          |

- This expenditure was put into three classes of work
1. Raising side boards from Diverting Dam to Sand Creek completed June 1912.
  2. Strengthening flume posts and sills and extra bents on trestles to sustain increased load. June 1912 to 1913.
  3. Excavation at outlet Tunnel No 2 for new conduit (within right of way) and on Tunnel No 1 $\frac{1}{2}$  (within right of way). Both portals were excavated and this work is also partially noted in cost items for June 1913.

## Note for distribution:

End hand lumber used per foot is:

2 x 2" x 12" x 12" = 4 ft. b.m. per foot

1 piece 4" x 6" x 9" = 9 f.b.m.

2 " 4" x 4" x 4 " 5 "

2 " 4" x 4" x 3 " 4 "

extra every 4 feet 18 "

5 ft. b.m. per foot

## Additional on trestles

average 6 ft.

1 cap - 8" x 8" x 8 = 42

3 posts 8 x 8 x 6 96

Every 14 feet 138 10 ft. b.m. per foot

The top board is New Construction. Remainder is "Repairs."

Book costs cover only labor and nails and delivery.

In distributing the book amounts, \$5,654.86, the following method is used:

Appraise the two tunnel portals of tunnel

No 1 $\frac{1}{2}$  at \$90.00

\$ 180.00

Deduct cost keeping charge June

61.75

Proportion to tunnel No 1 $\frac{1}{2}$  enter as future development

\$ 118.25

Nails, labor erecting, 11,250 lin. ft. of side boards (using cost of later work)  
45,000 f.b.m. at \$20.00 per M B/M -----  
enter as new construction

900.00

Local delivery, South Fork to Diverting Dam, 16 miles out and back, 45,000 at \$8.25 - enter as new construction -----

371.25

Nails and labor erecting side posts and sills, 11,250 lin. ft. x 5 - ft B/M =  
56,000 ft. B/M at \$20.00 -----  
enter as repairs

1,120.00

Local delivery of above material

56,000 ft B/M at \$8.25 -----

enter as repairs

462.00

Labor erecting extra bents under trestles

1,300 lin. ft. at 10 ft. B/M =

13,000 ft B/M at \$20.00 -----

enter as repairs

260.00

Charge to general repairs elsewhere  
on flume -----

1,106.72

2,425.56\$ 5,654.86

4,338.32

Hence - Section "A" June 1912 - Mar 1913 11,250 lin.ft.

|  |             |
|--|-------------|
| Redwood lumber end band<br>45,000 ft. B/M at \$30.00 ----- | \$ 1,350.00 |
| Nails and labor erecting<br>45,000 ft B/M at \$20.00 ----- | 900.00      |
| Local delivery of lumber<br>45,000 ft B/M at \$8.25 -----  | 371.25      |
|  | \$ 2,621.25 |

NEW TELEPHONE LINE

Metallic circuit 17 miles Los Cochas to  
Diverting Dam.  
Built September-December-1913.  
Poles run about 1 ft B/M to the foot and  
are 14 feet long.  
45 poles to the mile.  
630 ft B/M to the mile for 17 miles -  
10,710 ft B/M at \$30.00 ----- \$ 321.30

Wire insulators, pegs and labor of erecting -  
17 miles at \$44.22 per mile ----- 751.72

\$63.12 per mile ----- \$ 1,073.02

New Telephone Line.

Built January-April-1914.

Metallic circuit 25 miles Diverting Dam to  
Cuyamaca Lake -  
25 miles at \$63.12 = ----- \$ 1,578.00

Lankershim Tunnel (No 8)

will be page 25-A.

LANKERSHIM TUNNEL

TUNNEL NO. 7.

Replacing old timbering of arch with concrete. 400 lin.ft.  
Moulded 1/2 arch slabs used, each 3" x 4' x 2' wide. Lean back  
fill of 1;12 concrete placed behind.

|  |          |
|--|----------|
| Cement used in moulding slabs 100 sacks at .69 -----                                   | \$ 69.00 |
| Labor in moulding:   |          |
| Supt's payroll October 1913  | \$ 87.50 |
| Kingsley " December 1913   | 41.75    |
| Hauling sand and gravel to yard <del>XX XX</del> Beadle                                | 128.75   |
| Labor in tunnel placing and backfill:  |          |
| Kingsley payroll Dec 1913  | \$ 41.75 |
| Supt " Feb 1914  | 373.30   |
| " " Mar 1914 (\$67<br>deducted which was expended on<br>betimbering) -----             | 91.00    |
| Teams hauling slabs and delivering gravel for<br>backfill <del>31</del> days at \$5.25 | 165.40   |
| Cement in backfill 18 sacks at \$.69 --  | 12.40    |
| <i>Total - 400 lin.ft. Concret Arch @ \$2.07</i>                                       | 908.65   |

The above adds to new construction because the former  
roof was timber. To get required charge off in Railroad  
Commission appraisement, refer to Lane's quantity sheet No  
15 which shows Tunnel No 7

Length 1901 feet  
of which Timbered arch 1267 feet  
of which Untimbered arch 634 feet.  
Rubble wall extending throughout tunnel remains unchanged:  
Timbering ran 32 ft B/M per foot = 41 M B/M

Refer to Harroun R R Comm. appraisement Sheet No 5 Tunnel No 7

This item for the 1267 lin.ft. of timber:

|  |         |
|--|---------|
| Timber - 41 M B/M at \$30.   | \$1230. |
| Also Sheet No 13<br>Tunnels as a whole are depreciated 24/100<br>whence this item becomes      | \$960.  |
| but Cuyamaca Water Co. has replaced only<br>400 ft of a total of 1267 feet<br>400/1267 x 960 = | \$300.  |

which is amount to be charged off in June 1912  
from R R Comm. appraisement.

NOTE:

LANKERSHIM TUNNEL NO. 7.

For your convenience I place here also the replacement of  
timbering in 1914. +292(?) lin.ft. which is charged on books as  
new construction, is properly "repairs", E accounts.

|                        |        |
|------------------------|--------|
| Timber 4 M B/M at \$30 | \$120. |
| Hauling to tunnel      | 50.    |
| Labor of placing       | 67.    |
|                        | \$237. |

+ Mr. Faude has correct lin.ft. of timber repairs.

General Items: to be distributed by Mr. Harroun on the construction listed from P. 14 to P. 22 inclusive.

Loss on Commissary June to Dec. 1913 representing the difference in cost of meals (44 cents) and the price charged in camps (25 cents) ----- \$ 2,844.77

County Roads - repairs to main supply road from Lakeside 68.52

Construction plant - being tools, machinery and equipment purchased for this work.  
Purchase price, freight and delivery ---- \$ 951.59  
Reduced by items appearing in inventory } 249.06  
\$ 1200.65

Difference - representing construction plant used up, lost and obsolete with completion of work -----

Camp equipment - being cooking utensils, tents in commissary camps and housing of men, including purchase price, freight and labor incident to permanent camps ----- \$1,482.95  
Reduce by items appearing on inventory ----

Difference representing depreciation, used up and obsolete equipment -----

Engineering - being the amount definitely charged to this construction ----- 2,519.01

In addition a proportion of general office and operating expense should be placed here. I suggest:  
1/2 Supt Harritt's time on above construction 6 mos at \$150 ----- 900.00  
1/4 of San Diego office (being 1/2 for a six months period) -----

Interest on 1/2 cost of construction Total \$75,000 for six months construction period at 8% ----- \$ 5,000.00

Insurance if any carried:  
See page 5 Items 2 and 3 -----

MISCELLANEOUS PIPE LINES.

LINES ACQUIRED IN 1913

Olive Hill Tract. All pipe lines owned and managed by Olive Hill Co. are transferred to Cuyemaca Water Co. in consideration of relieving owners from collections and replacement of pipe.

APPRAISEMENT Map 4-H.

| Size Pipe  | Lin. ft. | Unit Price Laid | Cost of Replacement Amount | Depreciation Per Cent | Amount | Present Value Jan. 1, 1914. |
|------------|----------|-----------------|----------------------------|-----------------------|--------|-----------------------------|
| 1 1/2" Std | 325      | \$.31           | \$101                      | 50%                   | \$51   | \$50                        |
| 2" "       | 750      | .34             | 255                        | 50                    | 127    | 128                         |
| 2" "       | 760      | .34             | 258                        | 25                    | 65     | 193                         |
| 2" "       | 1030     | .34             | 350                        | 15                    | 52     | 298                         |
| 2" "       | 350      | .34             | 119                        | #new                  | 0      | 119                         |
|            |          |                 |                            |                       |        | \$ 788.                     |

Laid 1913.

|  |           |
|--|-----------|
| Services (no meter) condition 85%              |           |
| 120 lin. ft. 3/4 pipe - a .06 deliv--          | \$7.      |
| Labor installation 10 services at \$5.30 ----- | 53.       |
| Reproduction cost -----                        | \$ 60     |
| Depreciate 15% -----                           | 9         |
|  | <u>51</u> |
|  | \$ 839.   |

EDGEMONT TRACT AND ORANGEWOOD TRACT.

All pipe lines owned by Barney, McKee and Rife,  
are transferred December 1, 1913, to Guymaca Water Co.,  
in consideration of relief from collection, and maintenance.

APPRAISEMENT MAP 5-H.

| Size<br>Pipe                    | Lin.<br>ft. | Unit<br>Price | Cost of<br>Reproduction<br>Total | Depreciation |        | Present<br>Value<br>Jan. 1, 1914. |        |
|---------------------------------|-------------|---------------|----------------------------------|--------------|--------|-----------------------------------|--------|
|                                 |             |               |                                  | Percent      | Amount | Sub-total                         | Total  |
| 1" Std                          | 420         | \$.27         | \$116.                           | 20%          | \$23.  | \$ 93.                            |        |
| 1" "                            | 200         | .27           | 54                               | new          | 0      | 54                                |        |
| 1 1/2" "                        | 860         | .31           | 266                              | 50           | 133    | 133                               |        |
| 1 1/2" "                        | 750         | .31           | 232                              | 25           | 58     | 174                               |        |
| 2" "                            | 1245        | .34           | 424                              | 50           | 212    | 212                               |        |
| 2" "                            | 426         | .34           | 145                              | new          | 0      | 145                               | \$811. |
| <u>Services</u>                 |             |               |                                  |              |        |                                   |        |
| 3/4"                            | 380         | .06           | \$ 25.                           | 20%          | \$ 5.  | \$ 18.                            |        |
| Labor on 13 services (no meter) |             |               |                                  |              |        |                                   |        |
| at \$5.30                       |             |               | 69.                              | 20%          | 14.    | 55.                               |        |
| 3/4"                            | 280         | .06           | 17.                              | 25%          | 4.     | 11.                               |        |
| Labor on 9 services             |             |               |                                  |              |        |                                   |        |
| and meters at \$8.30            |             |               | 75.                              | 25%          | 19.    | 56.                               |        |
| 9 meters at \$7.75              |             |               | 70.                              | 25%          | 17.    | 53.                               | 195.   |
|                                 |             |               |                                  |              |        | \$ 1004.                          |        |

COPY

I. L. LESZYNSKY  
San Diego, California.

Jan. 27, 1914.

Guymaca Water Co.,  
City.

Gentlemen:

Replying to your favor of the 22nd, in re Distributing System of the Olive Hill Tract, beg to say that we will turn over to you the Pipe lines that we now own in this tract, you to collect for water from the individual consumers at your regulat prices and at your regular times. This will also carry with it the keeping up of the Pipe Lines, so that water may always be delivered to the tract, and the relieving us of any responsibility in connection therewith, or any connection with the payment of water consumed on the tract.

We enclose herein our check for \$5.10, as per your bill rendered Jan. 1, 1914, and which please receipt and return.

Kindly let us have confirmation from you at your earliest convenience.

Very truly yours,

"Olive Hill" Company  
By I. L. Leszynsky,  
Treasurer.

Dict. I.L.L.  
Enc.

COPY

BARNEY, MCKIE & RIFE

J W Rife  
R A Rife  
J H McKie  
G L Barney

REAL ESTATE  
American National Bank Building,  
San Diego, California.

21st,  
November,  
1913.

Col. Ed Fletcher  
O/o Guymaca Water Co.,  
C I T Y.

Dear Sir:-

Referring to my conversation with you, regarding your taking over the pipe lines in Edgement and Orangewood tracts, we herewith submit you the following proposition, to take effect December 1st:

We will turn over to the Guymaca Water Company, the pipe lines in both Edgement and Orangewood tracts, the Guymaca Water Company to present and collect from the individual consumers in these tracts, their monthly water bills, and agree to keep in repair the pipe lines in those tracts, relieving us from any responsibility as to the payment of the bills, and the repairs of the pipe lines in these tracts.

For your information, we have piped both Edgement and Orangewood, so that each lot is accessible to water, and the tracts will need no future expense in this respect.

Enclosed you will find our check for the bills we have received to this date.

Kindly let us hear from you regarding this matter at your earliest convenience.

Very truly yours,

Barney, McKie & Rife,  
per T. A. Rife.

(See Page 1, Tenth)

DISTRIBUTION SYSTEM 1914. MAIN SUPPLY PIPE FROM EUCALYPTUS  
RESERVOIR TO EL CAJON AND BOUNDARY STREETS ALONG EL CAJON  
AVENUE.

Certain surveys were begun in December 1913, but all construction was done in 1914 (Jan. 1 to April 1.)

As a practical matter this all is placed under 1914 work.

The following items appear on the December-1913 accounts which are here included.

|                             |                  |
|-----------------------------|------------------|
| Payroll Engr. Surveys ----- | \$ 838.19        |
| Supplies " " -----          | 76.44            |
|                             | <u>\$ 914.63</u> |
|                             | *****            |

COST DATA.

Story of TRENCH. Two contracts were let, one to R. F. Ware and one to C. V. McFall. Ware provided an excavation machine and it was used where practicable. When machine was used prices are denoted "Machine Trench" the rate varying with depth of trench. The remainder is called "Hard Trench" and this is classified into hard, soft and adobe material.

As a matter of fact both contractors fell down and a readjustment was made guaranteeing them against loss and the following appraisalment gives the actual sums expended and paid out to contractors, and these prices bear no relation to original bids.

The prices are made of the total payrolls, contractors payments, extra payments to contractors and Company's force. The cost keeping was done by Mr. F. P. Ellis, Engineer in charge.



The following statement shows the totals on Company's books which he has distributed in the appraisal.

STATEMENT OF COST OF TRENCHING, BACKFILLING  
AND INCIDENTALS.

|   |    |                  |
|---|----|------------------|
| Shown on R F Ware's final estimate <del>TRANSMISSION</del> -----                          | \$ | 7,025.80         |
| Additional amount allowed R F Ware Contractor account<br>guarantee against loss -----     |    | 2,710.69         |
| Fixing leak (deducted from R F Ware final estimate) -----                                 |    | 70.00            |
| Trenching " " " " " " -----   |    | 90.50            |
| Shown on C V McFall's final estimate -----  |    | 1,413.26         |
| Additional amount allowed C V McFall account<br>guarantee against loss -----              |    | 342.99           |
| Total Labor payrolls for February and March:  |    |                  |
| Lanterns -----  | \$ | 152.50           |
| Stand pipe -----  |    | 24.64            |
| Foreman -----   |    | 495.95           |
| Backfilling -----   |    | 3,323.80         |
| Tarring joints -----  |    | 139.60           |
| Trenching due to rains -----  |    | 626.02           |
| Culverts, Concrete work, trestle and<br>hauling -----                                     |    | 269.60           |
| Trenching -----   |    | <u>1,192.60</u>  |
|   |    | 6,224.71         |
| Engineers payrolls  |    |                  |
| December 1913 -----   |    | 838.19           |
| January-1914 - Engrs 592.85, Foreman 17.50,<br>Lantern tender 70.00, -----                |    | 680.35           |
| February 1914 -----   |    | 512.70           |
| March 1914 -----  |    | <u>438.50</u>    |
| Totals - Trenching, Backfilling and items<br>incidental to trenching and pipe laying ---- | \$ | 20,348.69        |
| Local bills for material, and balance due Baker Iron Works-                               |    | <u>605.06</u>    |
|   | \$ | <u>20,953.75</u> |

THE OUYAMAGA WATER COMPANY

Eucalyptus - San Diego Pipe Trench along El Cajon Avenue.

32A

COST OF TRENCHING

| Miles                 | AVG. Depth | MACHINE TRENCH    |                    |                  |  | HAND TRENCH   |               |                    |                            | Total cost of Trenching | Rate per Lin. foot of trench |
|-----------------------|------------|-------------------|--------------------|------------------|--|---------------|---------------|--------------------|----------------------------|-------------------------|------------------------------|
|                       |            | No. Yds.          | Rate per yard      | Cost             | Classification of material                                       | No. Yds       | Rate per yard | Cost               | Classification of Material |                         |                              |
| <u>26 inch trench</u> |            |                   |                    |                  |  |               |               |                    |                            |                         |                              |
| 1st                   | 3.1        | 594               | 0.47               | \$281.12         | hardpan loosened by explosives                                   | 810           | 3.50          | \$2,832.38         | hardpan loosened by shoot. | \$3,113.50              |                              |
| 2nd                   | 3.1        | 447               | 0.37½              | 167.73           | ferruginous clay with water worn boulders loosened by explosives | 905           | 1.84          | 1,669.91           | hardpan                    | 1,837.64                |                              |
| 3rd                   | 3.3        | 462               | 0.44½              | 205.06           | ferruginous clay hardpan and porphyry                            | 1066          | 1.15          | 1,224.86           | hardpan                    | 1,429.92                |                              |
| 4th                   | 3.2        | 28                | 0.39               | 11.00            | ferruginous clay   | 1371          | 1.13          | 1,552.50           | cemented clay              | 1,563.50                |                              |
| 4 to 4.69             | 3.6        | 587               | 0.53½              | 313.45           | do   | 345           | 1.20          | 414.51             | do                         | 727.96                  |                              |
| Totals 26" trench --  |            | <u>2118</u>       | <u>0.46½</u>       | <u>\$978.36</u>  |  | <u>4497</u>   | <u>1.76</u>   | <u>\$7,694.16</u>  | 24,760 lin.ft.             | <u>\$8,672.52</u>       | \$0.35                       |
| <u>24 inch trench</u> |            |                   |                    |                  |  |               |               |                    |                            |                         |                              |
| 1st                   | 3.8        | 1454              | 0.39½              | \$572.76         | adobe  | 70.4          | 1.00          | \$ 70.40           | adobe                      | \$ 643.16               |                              |
| 2nd                   | 3.9        | 1024              | 0.41               | 422.01           | adobe  | 609.8         | 1.59          | 969.00             | adobe and hardpan          | 1,391.01                |                              |
| 3rd                   | 3.2        | 332               | 0.40½              | 133.85           | sandy clay   | 862           | 1.63          | 1,400.89           | hardpan                    | 1,534.74                |                              |
| 3 to 3.02             | 5.0        |                   |                    |                  |  | 29.6          | 0.95          | 27.98              | hardpan                    | 27.98                   |                              |
| Totals 24" trench     |            | <u>2810</u>       | <u>0.40-1/5</u>    | <u>\$1128.62</u> |  | <u>1571.8</u> | <u>1.44</u>   | <u>\$2,468.27</u>  | 15,920 lin.ft.             | <u>\$3,596.89</u>       | 0.225                        |
| <b>GRAND TOTALS</b>   |            | <b>Yards 4928</b> | <b>Cost \$0.43</b> | <b>\$2106.98</b> |  | <b>6068.8</b> | <b>\$1.84</b> | <b>\$11,162.43</b> |                            | <b>\$12,259.40</b>      |                              |

Cost of entire trench per linear foot ----- \$ 0.301  
 Cost of entire trench per cubic yard ----- \$ 1.11

SUMMARY

26" trenching 24,760 lin.ft. at \$0.35 ----- \$ 8,672.52  
 24" trenching 15,920 lin.ft. at \$0.226 ----- 3,596.89

This is an average for entire trench of \$0.301 per  
 linft. or \$1.11 per cubic yard.

COST DATA16" and 14" Riveted Pipe.

The furnishing and laying of pipe (including 1 year  
 guarantee) was by contract with Baker Iron Works. The contract  
 called for straight pipe laid and ready for service, being  
 Riveted Steel Pipe, all No 14 gage, dipped in asphaltum and  
 wrapped spirally with 2 ply Malthoid roofing; at the following  
 prices:

|          |                      |
|----------|----------------------|
| 16" Pipe | \$ 0.88½ per lin.ft. |
| 14" Pipe | 0.79½ per lin.ft.    |

The contractor also agreed <sup>to furnish</sup> all specials at a "  
 "reasonable price."

The following tabulation shows the entire cost to the  
 Company on the Baker Iron Works contract:

THE GUYANAGA WATER COMPANY

Statement of Linear Feet of 14" and 16" Pipe and specials along El Cajon Avenue - Eucalyptus to San Diego.  
 April 1, 1914.

| Date of Bill 1914 | Order No. of Baker Iron Works | Items   | 14 inch pipe |       |                 | Cost of riveted Steel pipe wrapped and laid. |                 |                    |
|-------------------|-------------------------------|---|--------------|-------|-----------------|--|-----------------|--------------------|
|                   |                               |   | Gage         | Stock | No. of Fittings | No. Feet                                     | Rate            | Amount             |
|                   |                               | Riveted steel pipe                              | 14           | Misc. |                 | 15,501.7                                     | 0.795           | \$12323.80         |
|                   |                               | Riveted steel pipe (with specials attached)     | 12-14        | "     |                 | 423.6  | "               | 336.80             |
| 2-26-14           | 32180A                        | 14 x 1" Std tees                                | 14           | 48    | 2               |  | 2.47            | 4.94               |
| 2-26 3-3 & 3-5    | 32180 A B & C                 | 14 x 2" " "                                     | 14           | 48    | 25              |  | 2.97            | 74.22              |
| 3-7-14            | 32989                         | 14 x 2" " brass saddles complete (not attached) |              |       | 4               |  | 1.75            | 7.00               |
| 2-6 3-3 & 3-5     | 32180 A B & C                 | 14 x 3" " tees                                  | 14           | 48    | 43              |  | 3.51            | 150.91             |
| 2-26, 3-5, 3-18   | 32180 A & C                   | 14 x 3" " crossed                               | 14           | 48    | 16              |  | 6.27            | 100.30             |
| 2-26 & 3-18       | 32180, 32180A                 | 14 x 3" " blowoff & angle combination           | 14           | 48    | 2               |  | 6.05            | 12.10              |
| 3-7, 3-11, 3-16   | 32989 33003 33086             | 14 x 3" " brass saddles complete (not attached) |              |       | 10              |  | 2.40            | 24.00              |
| 2-26              | 32180A                        | 14 x 4" " tees                                  | 14           | 48    | 4               |  | 4.67            | 18.67              |
| 3-18              | 32180                         | 14 x 4" " blowoff combination                   | 14           | 48    | 1               |  | 8.77            | 8.77               |
| 3-7, 3-11         | 32989 33003                   | 14 x 4" " brass saddles complete (not attached) |              |       | 3               |  | 3.75            | 11.25              |
| 2-26              | 32180 A                       | 14 x 6" " tees                                  | 12           | 48    | 1               |  |                 | 8.02               |
| 3-3               | 32909                         | 14 x 6" " tee Remedied from 84 x 3" special     | 14           | 48    | 1               |  |                 | 9.04               |
| 3-3               | 32909                         | 14 x 6" x 3" Std. Cross de de                   | 14           | 48    | 1               |  |                 | 10.52              |
| 2-26, 3-25        | 32180A 33345                  | 14 x 8" Std. tees                               | 12           | 48    | 3               |  | 8.82            | 26.46              |
| 2-26, 3-14        | 32180A 32757                  | 3/4 to 10 degree ells                           | 12           | 48    | 3               |  | 5.68            | 17.05              |
| 2-26 3-25         | 32180A 33345                  | 30 degree ells                                  | 12           | 48    | 4               |  | 7.83            | 31.32              |
| 2-26 3-25         | 32180A 33345                  | 14" pipe reinforced one end                     | 14           | 48    | 7               |  | 3.92            | 27.42              |
| 3-3               | 33068                         | 15" Standpipe on 16" line                       | 10           | 48    | 1               |  | 72.50           | 72.50              |
| <b>Total 14"</b>  |                               |   |              |       |                 |  | <b>15,925.3</b> | <b>\$13,275.10</b> |

Statement of Linear Feet of 14" and 16" Pipe and Specials along El Cajon Avenue - Eucalyptus to San Diego.  
April 1, 1914.

| Date of Bill 1914 | Order No. of Baker Iron Works | Items             | 16" Pipe   |                      |                 | Cost of riveted steel pipe wrapped and laid. |          |        |             |
|-------------------|-------------------------------|-------------------|--|----------------------|-----------------|--|----------|--------|-------------|
|                   |                               |                   | Cage   | Stock                | No. of Fittings | No. Feet                                     | Rate     | Amount |             |
| 1-51              | 2-11                          | 32045 32082       | 16 x 1" std.   | tees                 | 14              | 30   | 14       | 2.91   | \$ 40.72    |
| 1-51              |                               | 32045 32082 51967 | 16 x 2" "  | tees                 | 14              | 30   | 45       | 3.41   | 146.58      |
| 1-51              |                               | 51930             | 16 x 2" "  | crosses              | 14              | 30   | 4        | 5.01   | 20.03       |
| 1-51              |                               | 32045             | 16 x 2" "  | 5 degree combination | 12              | 48   | 1        |        | 8.35        |
| 2-11              |                               | 32045 51930 51967 |  |                      |                 |  |          |        |             |
|                   |                               | 32082             | 16 x 3" "  | tees                 | 14              | 30   | 27       | 4.01   | 108.24      |
| 1-51              | 2-11                          | 51967 32045 32082 | 16 x 3" "  | crosses              | 14              | 30   | 6        | 6.22   | 37.30       |
| 1-51              |                               | 32045             | 16 x 3" "  | 5 degree combination | 12              | 48   | 1        |        | 9.10        |
| 1-51              |                               | 32045             | 16 x 3" "  | blowoff              | 12              | 48   | 3        | 6.58   | 19.74       |
| 1-51              | 2-11                          | 51930 51967 32045 |  |                      |                 |  |          |        |             |
|                   |                               | 32082             | 16 x 4" "  | tees                 | 14              | 30   | 18       | 5.21   | 93.76       |
| 1-51              |                               | 51930 51967 32045 | 16 x 4" "  | blowoff combination  | 14              | 30   | 5        | 9.76   | 48.80       |
| 1-51              | 2-11                          | 32045 32082       | 16 x 5" "  | tees                 | 12              | 48   | 4        | 9.78   | 39.12       |
| 1-51              | 2-11                          | 51930 51967 32045 |  |                      |                 |  |          |        |             |
|                   |                               | 32082             | 16 x 8" "  | tees                 | 12              | 48   | 9        | 10.53  | 92.96       |
| 1-51              |                               | 32045             | 16 x 10" "   | tees                 | 12              | 48   | 1        |        | 10.93       |
| 1-51              |                               | 32045             | 16 x 12" "   | tees                 | 12              | 48   | 2        | 11.68  | 23.36       |
| 1-51              |                               | 51930             | 16 x 15" "   | tees                 | 12              | 48   | 2        | 10.68  | 21.36       |
| 1-51              | 2-11                          | 51930 51967 32045 |  |                      |                 |  |          |        |             |
|                   |                               | 32082             | 16" reinforced one end                                   |                      | 14              | 30   | 9        | 4.01   | 36.08       |
| 1-51              | 2-11                          | 51930 51967 32045 |  |                      |                 |  |          |        |             |
|                   |                               | 32082             | 16-1/3 to 22 1/2 degree ells                             |                      | 12              | 48   | 57       | 6.60   | 376.53      |
| 1-51              | 2-11                          | 51930 32082       | 16" - 30 to 45 degree ells                               |                      | 12              | 48   | 4        | 9.10   | 56.41       |
| 1-51              |                               | 51967             | 16" 61 degree ells                                       |                      | 12              | 48   | 1        |        | 11.49       |
| 2-11              |                               | 32293             | 16 x 16 special fittings for Eucalyptus Reservoir outlet |                      | 12              | 48   | 1        | 1.76   | 120.36      |
| 2-1               |                               | 32082             | 16" flanged end complete for Sta. 245+93                 |                      | 12              | 48   | 1        |        | 17.86       |
|                   |                               |                   | Riveted steel pipe                                       |                      |                 | Misc.  | 24,119.5 | 0.885  | 21,545.53   |
|                   |                               |                   | Riveted steel pipe with specials attached                |                      | 12-14           | "  | 661.5    | 0.885  | 585.27      |
|                   |                               |                   | Total 16" -----  |                      |                 |  | 24,780.6 |        | \$23,250.18 |
|                   |                               |                   | Total 14" -----  |                      |                 |  | 15,925.3 |        | 15,275.10   |
|                   |                               |                   |  |                      |                 |  | 40,705.9 |        | \$38,525.28 |

THE CUYAMACA WATER COMPANY

Eucalyptus - San Diego Pipe Line along El Cajon Avenue.

In addition to the foregoing statements of costs of 14" and 16" pipe in place, must be added the cost of main valves, blowoffs, air valves and cast iron fittings, which go to make up the main line but not as part of the Baker Iron Works contract.

14 inch Pipe Line.

|                                    |          |           |    |               |
|------------------------------------|----------|-----------|----|---------------|
| 7 2" air valves -----              | in place | \$2.75 -- | \$ | 19.25         |
| 4 3" blowoff gate and nipple ----- | "        | 6.50 --   |    | 26.00         |
| 1 4" " " " " -----                 | "        | 9.50 --   |    | 9.50          |
| 4 14" Gate valves -----            | "        | 60.55 --  |    | <u>242.20</u> |
|                                    |          |           | \$ | 296.95        |

|   |                    |
|---|--------------------|
| Cost of 14" riveted steel line as per statement of Baker Iron Works ----- | \$13,275.10        |
| Total 14" -----   | <u>\$13,572.05</u> |

16 inch Pipe Line.

|                                      |                |          |    |               |
|--------------------------------------|----------------|----------|----|---------------|
| 12 2" air valves -----               | in place       | \$2.75 - | \$ | 33.00         |
| 2 3" blowoff gates and nipples ----- | "              | 6.50 -   |    | 13.00         |
| 8 4" " " " " -----                   | "              | 9.50 -   |    | 76.00         |
| 4 16" Gate valves -----              | "              | 72.00 -  |    | <u>288.00</u> |
|                                      | Subtotal ----- |          | \$ | 410.00        |

|  |                |                                      |    |               |
|--|----------------|--------------------------------------|----|---------------|
| Cast iron pipe extending from Sta. 173+59 to 174+05 on the 16" line: |                |                                      |    |               |
| 2 - 16 x 12" tees -----  | 1529 lbs.      |                                      |    |               |
| 2 - 16" gate valves -----  |                | \$72.00 ea                           |    | 144.00        |
| 2 - 16" sleeves -----  | 807 "          |                                      |    |               |
| 2 16 x 24" reducers -----  | 1149 "         |                                      |    |               |
| 2 - 8 x 16" reducers -----   | 585 "          |                                      |    |               |
| 1 - 16 x 8" tee -----  | 768 "          |                                      |    |               |
| 1 - 24 x 24" tee -----   | 2000 "         | 6838 a 3 <sup>1</sup> / <sub>2</sub> |    | 222.23        |
| 1 - length 16" pipe -----  | 1496 lbs       |                                      |    |               |
| 1 - length 12" pipe -----  | 963 "          | 2459 a 3 <sup>1</sup> / <sub>2</sub> |    | 73.77         |
| 1 - 8" Ross pressure reducer -----                                   |                |                                      |    | 325.00        |
| Cost of laying (calked with lead) -----                              |                |                                      |    | <u>154.00</u> |
|  | Subtotal ----- |                                      | \$ | 919.00        |

|   |                    |
|---|--------------------|
| Cost of 16" riveted steel line as per statement of Baker Iron Works ----- | 23,250.18          |
| Total 16" -----   | <u>\$24,579.18</u> |

VALVE BOXES.

Manholes with cast iron cover for horizontal 14" and 16" valves, and vertical pipes covered with cast iron gate caps as follows:

|   |                               |                  |
|---|-------------------------------|------------------|
| 25 - 8" cast iron gate caps               | 750 lbs                       |                  |
| 12 - 20" cast iron sewer rings and covers | <u>2736 lbs</u>               |                  |
|   | 3486 lbs at                   | \$122.00         |
|   | 3 <sup>1</sup> / <sub>2</sub> |                  |
| Lebor in installation                     |                               | 243.25           |
| Supt's payroll Mar 1914                   |                               | <u>243.25</u>    |
|   |                               | <u>\$ 365.25</u> |
|   |                               | *****            |

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BACKFILLING.

COST DATA

Backfilling was done entirely by Company's force, consisting of sizing material to 1 1/2" mesh, tamping or wetting same thoroughly about the pipe and slipping the remainder in by scraper where practicable. This data includes the cost of cleaning and leaving El Cajon Blvd. in good condition.

*Appraisement should appear  
prices as follows:*

|   |                    |
|---|--------------------|
| 26" trench backfilling 24,760 lin.ft.<br>at \$0.103 ----- | \$ 2,551.10        |
| 24" trench backfilling 15,920 lin.ft.<br>at \$0.087 ----- | 1,286.14           |
| <b>Total -----</b>  | <b>\$ 3,837.24</b> |

Showing an average cost for 40,680 lin.ft. of \$0.094 per linear foot.

The following tabulation gives the detail/<sup>from</sup> which these figures are ~~sums~~ derived:

Eucalyptus - San Diego Pipe Trench Along El Cajon Avenue.

BACKFILLING

| <u>Miles</u>       | <u>Foreman Rate \$5.44</u> | <u>Hand rate \$2.25 high rates indicate screening</u> | <u>Scraper (Rate \$10) \$0.027 =</u> | <u>flat rate per lin.ft.</u> | <u>Cost of hand and scraper work</u> |
|--------------------|----------------------------|---|--------------------------------------|------------------------------|--------------------------------------|
| <u>26" Trench</u>  |                            |   |                                      |                              |                                      |
| 1st                | \$100.20                   | \$658.50  | 4000                                 | \$108.00                     | \$766.50                             |
| 2nd                | 52.40                      | 255.00  | 5000                                 | 125.00                       | 400.00                               |
| 3rd                | 71.00                      | 541.00  | 3000                                 | 81.00                        | 522.00                               |
| 4th                | 61.70                      | 112.50  | 5300                                 | 143.00                       | 255.50                               |
| 4th+.7             | 43.00                      | 78.80   | 3700                                 | 100.00                       | 178.80                               |
| <b>Subtotal</b>    | <b>\$328.30</b>            | <b>\$1655.20</b>                                      |                                      | <b>\$567.00</b>              | <b>\$2222.80</b>                     |
| <u>24" Trench</u>  |                            |   |                                      |                              |                                      |
| 1st                | \$ 61.70                   | \$ 120.50   | 5000                                 | \$135.00                     | \$ 256.50                            |
| 2nd                | 61.70                      | 197.20  | 5000                                 | 135.00                       | 332.20                               |
| 3rd                | 61.70                      | 376.04  | 5000                                 | 135.00                       | 511.04                               |
| 3rd+.02            |                            | 2.30  |                                      |                              | 2.30                                 |
| <b>Subtotal</b>    | <b>\$185.10</b>            | <b>\$696.04</b>                                       |                                      | <b>\$405.00</b>              | <b>\$1101.04</b>                     |
| <b>Grand Total</b> | <b>\$513.40</b>            | <b>\$2351.84</b>                                      |                                      | <b>\$972.00</b>              | <b>\$3837.24</b>                     |
|                    |                            |   |                                      | <b>Plus Foreman</b>          | <b>513.40</b>                        |
|                    |                            |   |                                      |                              | <b>\$3837.24</b>                     |

BACKFILLING RATE

26" trench 24,760 lin.ft. cost \$2551.10 = \$0.103 per lin.ft.

24" trench 15,920 lin.ft. cost \$1286.14 = \$0.087 per lin.ft.

Entire cost of 40,680 lin.ft.:

|             |                                      |
|-------------|--------------------------------------|
| Hand        | \$2313.90 or 6.9¢ per lin.ft.        |
| Scraper     | 1025.34 or 2.5¢ per lin.ft.          |
| <b>Both</b> | <b>\$3837.24 or 9.4¢ per lin.ft.</b> |

Note: This includes the cost of backfilling together with sizing material, tamping same and clearing the County Boulevard of Gravel.

ITEMS INCIDENTAL TO TRENCHING AND PIPE LAYING.

The following items constitute miscellaneous costs which are not distributed, and take care of material and labor which is additional to the foregoing tabulations on Trenching, Pipe Laying and Backfilling:

THE CUYAMACA WATER COMPANY

Eucalyptus - San Diego Pipe Line along El Cajon Avenue.

ITEMS INCIDENTAL TO TRENCHING AND PIPE LAYING.

Note: Costs, extras, etc. for connections and fittings excluded. (Bills of Jan. Feb & Mar.)

|   | Distributed from payrolls Dec-Jan-Feb & Mar. and contractors trench estimates. | Local accounts for matl. & B.I.W. extras | Totals             |
|---|--|--|--------------------|
| Engineering, Supervision & inspection --        | \$ 2,395.24  | \$ 62.79                                 | \$2,458.03         |
| <u>Protection of Trench</u>                     |  |  |                    |
| Lanternmen, lanterns and oil -----              | 569.75   | 104.27                                   | 674.02             |
| Lost time of ditcher -----                      | 105.65   |  | 105.65             |
| Rubber boots necessary acct rains ----          |  | 34.80                                    | 34.80              |
| Culverts and crossings -----                    | 269.65   | 25.35                                    | 295.00             |
| <u>Trenching</u>                                |  |  |                    |
| Because of rain -----                           | 648.02   | 112.00                                   | 760.02             |
| Because of fittings and laying -----            |  | 51.22                                    | 51.22              |
| <u>Extras for laying pipe</u>                   |  |  |                    |
| Tarring joints because of rain -----            | 139.60   | 130.25 <sup>‡</sup>                      | 9.35               |
| Removing old pipe and erecting stand pipe ----- | 114.14   | 4.00                                     | 118.14             |
| Lost time moving and assembling fittings -----  |  | 32.55 <sup>‡</sup>                       | 32.55 <sup>‡</sup> |
| Attaching extra saddles -----                   |  | 18.00                                    | 18.00              |
| Making slip joints -----                        |  | 16.00                                    | 16.00              |
| Banding -----                                   |  | 43.80                                    | 43.80              |
| Concrete work -----                             |  | 69.25                                    | 69.25              |
| Calking leaks -----                             |  | 6.00                                     | 6.00               |
| Lowering pipe because of rain -----             |  | 78.00                                    | 78.00              |
| <u>Material</u>                                 |  |  |                    |
| Picks, shovels, misc tools -----                |  | 104.90                                   | 104.90             |
| Frestle -----                                   |  | 27.85                                    | 27.85              |
| Hay -----                                       |  | 9.65                                     | 9.65               |
| <b>Totals -----</b>                             | <b>\$ 4,242.05</b>   | <b>\$505.05</b>                          | <b>\$4,747.11</b>  |

‡ = Red Figures.



ADDITIONAL PIPE

To go with 12" main, being connection with City of San Diego consisting of:

30 lin.ft. of 10" and 12" cast iron in which is placed 2 - 10" valves, 1 - 10" meter, 1 - 10" fish trap and 1 - 10" x 12" reducer.

Also 21 lin.ft. 10" Bye Pass with second meter consisting of 1 - 6" meter, 1 - 6" fish trap, reducers, etc.,

VOUCHER TO CITY OF SAN DIEGO

Work order No 2388

New Construction

Fittings

|                            |       |
|----------------------------|-------|
| 1 14" x 10" reducer        | 12.04 |
| 1 10" tee                  | 13 85 |
| 1 10" plug                 | 1 35  |
| 1 10" x 6" reducer         | 6 30  |
| 2 6" screw nipples 2' long | 1 50  |
| 1 6" sleeve                | 3 05  |
| 1 10" x 8" reducer         | 7 04  |
| 1 12" tee                  | 17 92 |
| 1 12" plug                 | 1 75  |
| 1 12" clamp for plug       | 1 00  |
| 1 10" " " "                | 1 00  |
| 10 ft. 10" cast iron pipe  | 11 01 |
| 2 ft 12" " " "             | 2 85  |
| 1 sack coal                | 60    |
| 10" oakum                  | 40    |
| 400 lbs lead               | 20 00 |

|                    |           |
|--------------------|-----------|
| Material           | \$ 101.52 |
| Labor              | 98 55     |
| 10%                | 20 02     |
| City truck cartage | 15 00     |

\$ 235.19

Work Order No 2417 (Includes clearing and 3/4" tap)

|                   |       |
|-------------------|-------|
| 1 6" fish trap    | 20 00 |
| 1 6" x 12" nipple | 1 00  |
| Oakum             | .24   |
| 55 lbs lead       | 2 75  |

|              |       |
|--------------|-------|
| Material     | 23.99 |
| Labor        | 23 98 |
| 10% overhead | 4.80  |

\$ 52.77

Work Order No 2473 - Extend 12" main from cross S 21' and E placing 10" meter to tee already in.

|                     |       |
|---------------------|-------|
| 2 10" gates         | 54 00 |
| 1 12" tee           | 13 20 |
| 1 12" plug          | 1 75  |
| 1 12" x 10" reducer | 9 34  |
| Oakum               | 1 00  |
| 300 lbs lead        | 15 00 |
| 14 ft 10" pipe      | 15 40 |
| 18 ft 12" pipe      | 16 99 |

\$ 126.68

Continued on next page.

Box for meter

|                   |      |
|-------------------|------|
| 7 pos 2 x 12 x 16 | 6.72 |
| 5 " 2 x 12 x 10   | 3 00 |
| 9 " 4 x 4 - 6     | 2 16 |
| 6 " 6 x 6 - 6     | 3 24 |
| 1 " 6 x 6 - 16    | 1 44 |
| nails             | .20  |

\$ 16.76

Labor on above and setting 10" meter and 10" fish trap

105.48

\$ 265.68

Credit (taken by City)

|                    |          |
|--------------------|----------|
| 18 ft 12" pipe     | \$ 16.99 |
| 1/3 of above labor | 35.16    |

52.15

\$ 213.53

51 lin.ft. of cast iron (Largely specials) at \$9.80 \$ 501.49

COST OF PREPARING FLUMES FOR ASPHALTIC LINING.

|                      | Hopping with Asphalt | Nails and Felt  | Rental of tents | Brooms, oil and stove wood | Freight on roofing and merchandise | Galv. flume 60 ft head          |
|----------------------|----------------------|-----------------|-----------------|----------------------------|------------------------------------|---------------------------------|
| Nov and Dec 1913     | \$239.54             |                 |                 | \$5.00                     | \$569.19                           | \$2359.75                       |
| Jan Feb and Mar 1914 | \$351.80             | 111.53          | \$50.75         | \$165.                     | 17.10                              | 855.04                          |
| <b>Total</b>         | <b>\$351.80</b>      | <b>\$351.07</b> | <b>\$50.75</b>  | <b>\$165.00</b>            | <b>\$22.10</b>                     | <b>\$1424.25</b>                |
|                      |                      |                 |                 |                            |                                    | <b>\$5473.67</b>                |
|                      |                      |                 |                 |                            |                                    | <b>\$130.71</b>                 |
|                      |                      |                 |                 |                            |                                    | <b>Grand Total -- \$7969.33</b> |

COST OF LINING FLUME WITH ASPHALTED ROOFING

| Section               | Lin.ft. of flume | Height of siding in inches | Cost per Lin.ft. | Amount   |
|-----------------------|------------------|----------------------------|------------------|----------|
| San Diego Roofing Co. | 1702             | 12 8'                      | 0.194            | \$330.00 |
|                       | 1088             | 18 9                       | 0.22             | 240.00   |
|                       | 15849            | 24 10                      | 0.242            | 3837.07  |
|                       | 1000             | 30 11                      | 0.27             | 271.00   |
| Sutor-Wenger          | 16742            | 14 8 1/2                   | 0.28             | 4687.70  |
|                       | 423              | 24 10                      | 0.34             | 143.60   |
| Hazard-Gould Company  | 67098            | 18 9                       | 0.226            | 15142.00 |
|                       | 100              | 48 14                      | 0.57             | 58.65    |
| Russ Lumber Co        | 54754            | 12 8                       | 0.176            | 9634.95  |
|                       | 2835             | 24 10                      | 0.225            | 633.40   |
|                       | 15               | 36 12                      | 0.29             | 4.39     |
|                       | 56               | 48 14                      | 0.67             | 38.05    |

AVG Rates and amount ---- 161,662 at 0.217 = \$35,050.81

Note: The December-1913 statement of the San Diego Roofing Company for \$362.78 is included in this appraisalment.

COST OF ENGINEERING, SUPERVISION AND INSPECTION.

|   |                   |
|---|-------------------|
| Lebor   | \$ 24.00          |
| Auto hire (Nov-Dec)                                     | 37.50             |
| Salary and auto hire (Jan-Feb & Mar) of inspector ----- | 597.50            |
| Meals   | 51.05             |
| Salary of superintendent at \$150                       | 300.00            |
|   | <b>\$1,010.05</b> |

SUMMARY

Preparing flume and laying asphaltic roofing.

|   |                    |
|---|--------------------|
| Preparing flume                         | \$ 7,969.33        |
| Asphaltic roofing                       | 35,050.81          |
| Engineering, supervision and inspection | 1,010.05           |
|   | <b>\$44,030.19</b> |

161,662 lin.ft. at \$0.272 = \$44,030.19.

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MISCELLANEOUS PIPE LINES

Lines acquired in 1914.

El Cajon Acres Tract (No 1621) being the resubdivision of the

(50) acres in Lots 15, 16 and 17, Block 3, El Cajon Heights.

Appraisal (Maps 19.20 - O.P and 19.20 - Q.R.)  
C.W.Co. Plat Book

| Size Std.                             | Lin. feet | Unit price Laid | Cost of replacement amount | Depreciation per cent | Amount   | Present value April 1, 1914. |
|---------------------------------------|-----------|-----------------|----------------------------|-----------------------|----------|------------------------------|
| 2"                                    | 5225      | \$.34           | \$1776.50                  | 50%                   | \$888.25 | \$888.25                     |
| 2"                                    | 2400      | .34             | 816.00                     | new                   | -        | 816.00                       |
| 2"                                    | 2600      | .34             | 884.00                     | new                   | -        | 884.00                       |
|                                       |           |                 |                            |                       |          | \$ 2588.25                   |
| New laid Mar. 2, 1914.                |           |                 |                            |                       |          |                              |
| 6 - 2" gate valves in place at \$3.90 |           |                 |                            |                       |          | \$ 23.40                     |
| Services (new)                        |           |                 |                            |                       |          |                              |
| 2 - 3/4" meters at \$7.75 each        |           |                 |                            |                       |          | \$ 15.50                     |
| cost of installation 2.75             |           |                 |                            |                       |          | 5.50                         |
| 2 - 40 lin.ft. 3.4" pipe @ 6¢         |           |                 |                            |                       |          | 2.40                         |
| Cost of installation 5.30             |           |                 |                            |                       |          | 10.60                        |
| Reproduction cost                     |           |                 |                            |                       |          | 36.40                        |
|                                       |           |                 |                            |                       |          | \$ 2,648.05                  |

Note: This includes main line from the flume to El Cajon Acres, which distributes also to the Packing House near the S.D. & S.E. Railway Station.

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CHANGING SERVICES

The following is a partial list of cast iron pipe and fittings used in the change over of pipe at Station 173+77 of the 16" line (being at the site of the proposed pump house.)

|  |                |           |
|--|----------------|-----------|
| 2 lengths 12" Cast iron pipe                                     | 1927 lbs       |           |
| 2 " 9" " " "   | 1168 lbs       |           |
|  | 3095 lbs at 3¢ | \$ 92.85  |
| 1 8 x 16 bell reducer  | 370 lbs        |           |
| 2 pc 12 x 36 cast iron pipe                                      | 540 "          |           |
| 1 pc 8 x 36 " " "  | 195 "          |           |
| 1 12 x 8 cast iron tee hub and                                   | 530 "          |           |
| 1 8" c i ell 90°   | 215 "          |           |
| 3 16" C I nipples 20" long                                       | 615 "          |           |
| 3 16" C I nipples 30" long                                       | 900 "          |           |
| 25 8" C I Gate caps 50 lbs                                       | 750 "          |           |
| 12 20" sewer rings & covers                                      | 2736 "         |           |
|  | 6901 lbs at 2¢ | 241.54    |
| 1 24" C I nipple 24" long 440 lbs at 3¢                          |                | \$ 15.40  |
| 1 24" elbow 9° hub ends 860 lbs at "                             |                | 30.10     |
| Patternwork 10 hrs at 0.85                                       |                | 8.50      |
| 4 20" steel pipe saddles 8" tap brass 56 lbs a .25               |                | 14.00     |
| Patternwork 10½ hrs at .85                                       |                | 8.95      |
| Machining 7½ hrs at .75  |                | 5.65      |
| 1 pc 24" casing pipe 8'0" long 616 lbs at 4¢                     |                | 24.72     |
| Flange five 3 hrs at 1.00  |                | 3.00      |
| Boilermakers 30 hrs at .75                                       |                | 22.50     |
| do helper 9 hrs at .65   |                | 5.85      |
| Freight from La Mesa   |                | 0.67      |
|  |                | 139.34    |
| 2 C I nipples 24" I D 24" long 880 lbs at 3¢                     |                | 26.40     |
| Patternwork 4 hrs at .85   |                | 3.40      |
|  |                | 34.20     |
| 2 20" pipe saddles 6" tap at 16.00                               |                | 32.00     |
| 1 20" saddle with 6" tap   |                | 15.00     |
| 4 socket wrenches to order                                       |                |           |
| 140 lbs at 4¢  |                | 6.30      |
| Patternwork 36 hrs at .85  |                | 30.60     |
| Blacksmith and helpers 12 hrs a 1.50                             |                | 18.00     |
| Cutting 3 hrs at .75   |                | 2.25      |
|  |                | 72.15     |
| Horing C I flange and tapping for 3" pipe,                       |                |           |
| express  |                | 0.55      |
| machanist  |                | 1.90      |
|  |                | 2.45      |
| 2 steel plates complete  |                | 15.20     |
| 6 C I boxes per inst. 3" pipe                                    |                |           |
| 2 " " " " 2" pipe 220 lbs at 3¢                                  |                | 7.70      |
| Patternwork 8½ hrs at 0.85                                       |                | 7.25      |
|  |                | 14.95     |
| Probable cost of calking joints, material for same and trenching |                | 10.00     |
|  |                | \$ 854.68 |

CHANGING SERVICES

Data showing estimated cost of changing services from old to new pipe line along El Cajon Ave.  
 Note: These changes will require several months to complete. (April 1, 1914)

| Service                            | Class-ification       | No. of each | Straight pipe Avg. trench 30 feet. Trenching and laying \$14.00 |                            | Hip-plees | Ells & Tees |         | Service taps, Uni- corp cocks, Avg. lead connect. Rate |       | Rate Each | Rate in place | Total      |
|------------------------------------|-----------------------|-------------|---|----------------------------|-----------|-------------|---------|--|-------|-----------|---------------|------------|
|                                    |                       |             | Rate per foot Std. or Case.                                     | Cost 30' pipe plus \$14.00 |           | Rate        | Rate of | Rate   | Rate  |           |               |            |
| 1                                  | tee                   | 16          | 0.042   | 15.26                      | .02       | .041        | .048    | .045   | 4.95  | 4.95      | 20.28         | 354.40     |
| 2                                  | tee                   | 57          | 0.091   | 16.73                      | .045      | .130        | .18     | .15  | 6.85  | 6.85      | 24.07         | 1372.00    |
| 2                                  | cross                 | 4           | 0.091   | 16.73                      | 0.45      | .130        | .18     | .15  | 6.85  | 6.85      | 32.13         | 128.50     |
| 3                                  | tee                   | 77          | 0.19  | 19.70                      | 0.144     | .30         | .44     | .37  | 5.25  | 10.50     | 31.31         | 2410.87    |
| 3                                  | cross                 | 22          | 0.19  | 19.70                      | 0.144     | .30         | .44     | .37  | 5.25  | 10.50     | 42.92         | 944.20     |
| 4                                  | tee                   | 22          | 0.28  | 22.40                      | 0.226     | .43         | .70     | .59  | 7.00  | 14.00     | 38.09         | 837.38     |
| 6                                  | gate                  | 2           |   |                            |           |             |         |  |       |           | 18.00         | 36.00      |
| 6                                  | tee                   | 6           | 0.49  | 28.70                      | 0.556     | 1.10        | 1.60    | 1.35   | 11.40 | 22.80     | 54.99         | 329.94     |
| 6                                  | cross                 | 1           | 0.49  | 28.70                      | 0.556     | 1.10        | 1.60    | 1.35   | 11.40 | 22.80     |               |            |
| 8                                  | tee                   | 12          |   |                            | 0.144     | .30         | .44     | .37  | 5.25  | 10.50     | 66.60         | 66.60      |
| 8                                  | tee                   | 12          | 0.62  | 32.60                      | 1.24      | 2.70        | 3.90    | 3.30   | 19.30 | 38.60     | 78.54         | 942.48     |
| 8                                  | gate                  | 7           |   |                            |           |             |         |  |       |           | 28.00         | 196.00     |
| 10                                 | tee                   | 1           | 0.87  | 40.10                      | 2.36      | 5.40        | 7.80    | 6.60   | 31.50 | 63.00     | 116.66        | 116.66     |
| 12                                 | tee                   | 2           | 1.26  | 51.80                      | 2.70      | 8.00        | 11.60   | 9.80   | 43.70 | 87.40     | 158.10        | 516.20     |
| a                                  | 1 service tap         |             | 0.45  |                            |           |             |         |  |       |           |               |            |
|                                    | 1 lead connection     |             | 2.50  |                            |           |             |         |  |       |           |               |            |
|                                    | 1 corporation cock    |             | 2.00  |                            |           |             |         |  |       |           |               |            |
| Piping for change at Station 17377 |                       |             |   |                            |           |             |         |  |       |           |               | \$8,021.97 |
|                                    |                       |             |   |                            |           |             |         |  |       |           |               | 854.68     |
|                                    |                       |             |   |                            |           |             |         |  |       |           |               | \$8,876.65 |
| b                                  | 1 service tap         |             | 1.50  |                            |           |             |         |  |       |           |               |            |
|                                    | 1 corporation cock    |             | 2.85  |                            |           |             |         |  |       |           |               |            |
|                                    | 1 lead connection     |             | 2.50  |                            |           |             |         |  |       |           |               |            |
| c                                  | Eucalyptus Reservoir. |             |   |                            |           |             |         |  |       |           |               |            |
| d                                  | Including Eucalyptus. |             |   |                            |           |             |         |  |       |           |               |            |

VALUATION OF METERS.

This is a complete inventory of all meters of record May 1, 1914, includes all meter purchases since June 1912; and also all meters installed before 1912 originally paid for by consumers, but for which Company is now responsible (maintenance and replacement;) and all meters installed before 1912 originally paid for by Company.

| Type               | Quantity | Cost to reproduce Unit | Year Installed | Age in Yrs | Probable Life | Depreciation Percent | Amount   | Subtotal | Present Value Total |
|--------------------|----------|------------------------|----------------|------------|---------------|----------------------|----------|----------|---------------------|
| <u>1/2" Meters</u> |          |                        |                |            |               |                      |          |          |                     |
| Bee                | 6        | \$7.00                 | 1906           | 8          | 16            | 50                   | \$ 21.00 | \$ 21.00 |                     |
| Columbia           | 1        | 7 00                   | 1906           | 8          | 16            | 50                   | 4 00     | 3 00     | \$ 24.00            |
| <u>5/8" Meters</u> |          |                        |                |            |               |                      |          |          |                     |
| Trident            | 11       | 7 60                   | 1906           | 8          | 16            | 50                   | 42 00    | 42 00    |                     |
|                    | 330      |                        | 1913           | 1          | 16            | 6-2/3                | 158 00   | 2350 00  |                     |
| Worthington        | 4        | 6 75                   | 1906           | 8          | 16            | 50                   | 14 00    | 13 00    |                     |
|                    | 146      |                        | 1913           | 1          | 16/5          | 66-2/3               | 962 00   | 923 00   |                     |
|                    | 7        |                        | 1914           | 0          | 16            | 0                    | 00       | 47 00    |                     |
|                    | 50       |                        | 1914           | 0          | 16            | 0                    | 00       | 338 00   |                     |
| Lambert            | 12       | 8 00                   | 1906           | 8          | 16            | 50                   | 48 00    | 48 00    |                     |
|                    | 1        |                        | 1910           | 4          | 16            | 25                   | 2 00     | 6 00     |                     |
|                    | 11       |                        | 1912           | 2          | 15            | 12 1/2               | 11 00    | 77 00    |                     |
|                    | 5        |                        | 1913           | 1          | 16            | 6-2/3                | 3 00     | 37 00    |                     |
| Hash               | 3        | 8 00                   | 1906           | 8          | 16            | 50                   | 12 00    | 12 00    |                     |
|                    | 9        |                        | 1910           | 4          | 16            | 25                   | 18 00    | 54 00    |                     |
|                    | 47       |                        | 1913           | 1          | 16            | 6-2/3                | 24 00    | 352 00   |                     |
|                    | 6        |                        | 1914           | 0          | 16            | 0                    | 00       | 48 00    |                     |
| Keystone           | 2        | 8 00                   | 1912           | 2          | 16            | 12 1/2               | 2 00     | 14 00    |                     |
| Bee                | 3        | 7 00                   | 1906           | 8          | 16            | 50                   | 11 00    | 10 00    | 4,371.00            |
| <u>3/4" Meters</u> |          |                        |                |            |               |                      |          |          |                     |
| Trident            | 5        | 11 00                  | 1906           | 8          | 16            | 50                   | 28 00    | 27 00    |                     |
| Lambert            | 8        | 11 00                  | 1906           | 8          | 16            | 50                   | 44 00    | 44 00    |                     |
|                    | 1        | 11 00                  | 1913           | 1          | 16            | 6-2/3                | 1 00     | 10 00    |                     |
| Bee                | 3        | 11 00                  | 1906           | 8          | 16            | 50                   | 17 00    | 16 00    |                     |
| Hersey             | 1        | 11 00                  | 1906           | 8          | 16            | 50                   | 6 00     | 5 00     | 102.00              |
| <u>1" Meters</u>   |          |                        |                |            |               |                      |          |          |                     |
| Trident            | 14       | 16 25                  | 1906           | 8          | 16            | 50                   | 114 00   | 114 00   |                     |
| Lambert            | 57       | 16 25                  | 1906           | 8          | 16            | 50                   | 463 00   | 463 00   |                     |
|                    | 1        | 16 00                  | 1913           | 1          | 16            | 6-2/3                | 1 00     | 15 00    |                     |
| Keystone           | 2        | 16 25                  | 1906           | 8          | 16            | 50                   | 16 00    | 17 00    |                     |
| Bee                | 20       | 16 25                  | 1906           | 8          | 16            | 50                   | 163 00   | 162 00   |                     |
| Hersey             | 3        | 16 25                  | 1906           | 8          | 16            | 50                   | 25 00    | 24 00    | \$ 795.00           |

† - Estimated installed during 1914.

Continued on next page.

ADDITIONAL PROPERTY ACQUIRED SUBSEQUENT TO MAY 1, 1914.

LANDS, RIGHTS OF WAY, ETC.

|   | <u>Present Value</u> |
|---|----------------------|
| <u>Lands and Rights of Way</u>  |                      |
| Webster Reservoir (forebay for El Cajon Pipe Line)                      |                      |
| Block 9 - Villa Caro Heights - 14 acres (cost price 1914) -----         | \$ 200.00            |
| Miles Reservoir - No 1. (situated in Lots 1 and 2 of Block 29.          |                      |
| El Cajon Heights - approximate 3 acres - cost price \$1000 (1914) ----- | 1,000.00             |
| Miles Reservoir - No 2. (situated in Lot 4, Block 29, El Cajon Heights) |                      |
| 1/2 acre (cost price 1914) -----  | 200.00               |
| Right of way for 4" pipe line - Webster Reservoir to Chase and San      |                      |
| Diego Ave - 1/4 acre -----  | 80.00                |
| Right of way for 4" pipe line - Miles Reservoir No 1 to Miles Reservoir |                      |
| No 2 - 1/4 acre -----   | 80.00                |
| <u>Pumping Plants:</u>  |                      |
| 1 7" x 8" Gould Triplex \$400 age 10 yrs depreciation 50% -----         | \$ 200.00            |
| 1 15 H.P. Otto gas engine \$650 age 14 yrs depreciation 70% -----       | 195.00               |
| Connections and foundations -----                                       | 40.00                |
| Redwood house 12' x 24' -----   | 50.00                |
|   | <u>\$1,560.00</u>    |

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RESERVOIRS.

| <u>Item</u>                  | <u>Quantity</u> | <u>Reproduction Cost</u> |               | <u>Physical Depreciation</u> |               | <u>Present Value</u> |                 |
|------------------------------|-----------------|--------------------------|---------------|------------------------------|---------------|----------------------|-----------------|
|                              |                 | <u>Unit Price</u>        | <u>Amount</u> | <u>Probable Per</u>          | <u>Amount</u> |                      |                 |
| <u>Miles Reservoir No 1</u>  |                 |                          |               |                              |               |                      |                 |
| Inlet Flume                  | 12 lin. ft.     | \$2.50                   | \$30.         | 14                           | 28            | 50%                  | \$15.           |
| Earth Ditch                  | 115 "           | .50                      | 57.           | 14                           | 100           | 7%                   | 55.             |
| Embankment (Dam)             | 4190 cu. yd     | .45                      | 1885.         | 14                           | 100           | 7%                   | 1755.           |
| Rip Rap                      | 2500 sq. ft     | .11                      | 275.          | 14                           | 100           | 7%                   | 256.            |
| 6" Standard Pipe             | 175 lin. ft.    | .80                      | 240.          | 14                           | 20            | 70%                  | 72.             |
| 6" Gate valve                | 1 only          | 18.00                    | 18.           | 14                           | 20            | 70%                  | 6.              |
|                              |                 |                          |               |                              |               |                      | <u>\$ 2155.</u> |
| <u>Miles Reservoir No 2.</u> |                 |                          |               |                              |               |                      |                 |
| Embankment                   | 1700 cu. yd     | .45                      | 765.          | 14                           | 100           | 7%                   | 54.             |
| Rip rap                      | 7500 sq. ft.    | .11                      | 825.          | 14                           | 100           | 7%                   | 58.             |
| 6" Std. Pipe                 | 70 lin. ft.     | .80                      | 56.           | 14                           | 20            | 70%                  | 16.             |
| 6" Gate Valve                | 1 only          | 18.00                    | 18.           | 14                           | 20            | 70%                  | 5.              |
|                              |                 |                          |               |                              |               |                      | <u>\$ 1499.</u> |
| <u>Webster Reservoir</u>     |                 |                          |               |                              |               |                      |                 |
| Embankment                   | 300 cu yd       | .50                      | 150.          | 2                            | 100           | 2%                   | 2.              |
| 4" Gate Valve                | 1 only          | 7.00                     | 7.            | 2                            | 20            | 10%                  | 1.              |
|                              |                 |                          |               |                              |               |                      | <u>\$ 147.</u>  |
|                              |                 |                          |               |                              |               |                      | <u>\$ 155.</u>  |

MISCELLANEOUS PIPE LINES

Lines acquired in 1914 in Murray Hill and Villa Caro Subdivisions.

| Refer-<br>-ence | Size Std.<br>Dipped Pipe<br>or Gate | Lin.<br>Ft. | Cost to Reproduce     |          | Year<br>Installed | Age<br>in<br>Yrs | Age<br>in<br>Probable<br>Life | Per<br>Cent | Depreciation |          | Total      |
|-----------------|-------------------------------------|-------------|-----------------------|----------|-------------------|------------------|-------------------------------|-------------|--------------|----------|------------|
|                 |                                     |             | Unit<br>Price<br>Laid | Cost     |                   |                  |                               |             | Amount       | Subtotal |            |
| A               | 4" Gate                             | 650         | 0.55                  | \$358.00 | 1914              | 0                | 20                            | 0           | .00          | \$358.00 |            |
|                 | 4" Gate                             | 670         | 0.55                  | 369.00   | 1900              | 14               | 20                            | 70          | 258.00       | 111.00   |            |
|                 | 1 4" Gate                           | -           | 7.00                  | 7.00     | 1900              | 14               | 20                            | 70          | 5.00         | 2.00     | \$ 471.00  |
| B               | 2" Gatos                            | 440         | 0.32                  | 141.00   | 1900              | 14               | 20                            | 70          | 99.00        | 42.00    |            |
|                 | 2 2" Gatos                          | 230         | 2.25                  | 5.00     | 1900              | 14               | 20                            | 70          | 3.00         | 2.00     |            |
|                 | 1" Gate                             | 230         | 0.25                  | 58.00    | 1900              | 14               | 20                            | 70          | 40.00        | 18.00    |            |
|                 | 3/4" Gate                           | 600         | 0.24                  | 192.00   | 1900              | 14               | 20                            | 70          | 134.00       | 58.00    |            |
|                 | 1 2" cock                           | -           | 1.50                  | 1.50     | 1900              | 14               | 20                            | 70          | 1.00         | .50      | 120.50     |
| C               | 3" Gates                            | 2250        | 0.41                  | 927.00   | 1912              | 2                | 20                            | 10          | 93.00        | 834.00   |            |
|                 | 2 3" Gates                          | -           | 5.50                  | 11.00    | 1912              | 2                | 20                            | 10          | 1.00         | 10.00    |            |
|                 | 1 1" cock                           | -           | 0.45                  | 0.45     | 1912              | 2                | 20                            | 10          | .05          | 0.40     | 844.40     |
| D               | 4" Gate                             | 1000        | 0.55                  | 550.00   | 1910              | 4                | 20                            | 20          | 110.00       | 440.00   | 440.00     |
| On<br>Hand      | 3" Gate                             | 1100        | 0.19                  | 209.00   | 1912              | 2                | 20                            | 10          | 21.00        | 188.00   |            |
|                 | 2" Gate                             | 350         | 0.09                  | 32.00    | 1912              | 2                | 20                            | 10          | 3.00         | 29.00    | 217.00     |
|                 |                                     |             |                       |          |                   |                  |                               |             |              |          | \$2,095.00 |

Note: A denotes pipe used in distributing water to Miles Reservoir from the Miles pumping Plant (No 5.)  
 B denotes pipe used in distributing to vicinity of Murray Hill Subdivision from Miles Reservoir.  
 C denotes mains and laterals on Murray Hill Subdivision.  
 D denotes distribution line from Webster Reservoir to town of El Cajon.

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FUTURE DEVELOPMENT

Consisting of surveys and rights-of-way for:

- Conejos Reservoir
- Poverty Gulch Reservoir
- Boulder Creek Reservoir
- El Capitan Reservoir

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Conejos Reservoir (High Line Survey)

Upon El Capitan Indian Reservation, or South Fork -  
 U. S. Right-of-way application and incidental expenses

|  |            |
|--|------------|
| Expenditure 1910 - Principally surveys | \$ 34.06   |
| " 1911 " "                             | 1,119.86   |
| " 1913 " "                             | 58.11      |
|  | \$1,212.03 |

Poverty Gulch Reservoir:

Surveys of site - Purchases of real estate - Appli-  
 cation from U. S. Forest Service for permit

|  |            |
|--|------------|
| Expenditure 1911 - Principally surveys | \$ 265.45  |
| " 1912 Lands                           | 1,219.20   |
| " 1913 Surveys                         | 202.64     |
|  | \$1,687.29 |

Boulder Creek Reservoir and Canal Line to Tule Reservoir:

Surveys of site - Negotiation with mining claim-  
 ants - Application to State Water Commission, and  
 public hearing for power rights, a proceeding necessary  
 to secure proper reservoir for irrigation irrespective  
 of power on account of conflict with mining claimants -  
 Surveys for U.S. Forest Service application, and ex-  
 penses of application.

|                   |              |                 |            |
|-------------------|--------------|-----------------|------------|
| Expenditure 1913: | Apr. Labor   | Material        |            |
|                   | Apr. \$10.00 |                 | \$ 10.00   |
|                   | May 267.57   |                 | 267.57     |
|                   | June 75.00   |                 | 75.00      |
|                   | July 432.10  | Meals (\$160.00 | 440.30     |
|                   |              | ( 440.30        | 1,032.10   |
|                   | Aug. (274.80 |                 |            |
|                   | (330.75      | \$102.00        | 707.55     |
|                   | Sept. 49.15  |                 | 49.15      |
|                   |              |                 | \$2,141.37 |

El Capitan Dam Site:

|                   |                      |            |
|-------------------|----------------------|------------|
| Expenditure 1914: | Jan. Vo.1468 M.C.Co1 | 894.91     |
|                   | Feb.                 | 1,321.15   |
|                   | Mar.                 | 370.35     |
|                   | Apr. M.C.Co.         | 215.00     |
|                   | Clearing, operating  | 91.10      |
|                   | Prospecting rock     | 109.80     |
|                   |                      | \$3,002.31 |

THE GUYANACA WATER COMPANY

MATERIAL ON HAND

Inventory January 1st, 1914.

|  | Price            | Cost            |
|--|------------------|-----------------|
| 1 can abbeston cement 5 lbs              | \$ .05           | \$ .25          |
| 4 bxs " "                                | .05              | 2.00            |
| 9 1/2 x 2" stud bolts )                  | .05              | .25             |
| 2 1/2 x 3" " " ) 5 lbs                   |                  |                 |
| 48 5/8 x 7" bolts                        | per hundred 2.51 | 1.20            |
| 60 5/8 x 4 1/2 " "                       | 2 00             | 1 20            |
| 130 5/8 x 4" " "                         | 1 92             | 2 50            |
| 78 5/8 x 3 1/2 " "                       | 02               | 1 56            |
| 40 3/8 x 6 " "                           | .016             | 64              |
| 35 5/8 x 5 1/2 " "                       | 2.21             | .77             |
| 38 5/8 x 2 1/2 " "                       | 02               | 76              |
| 7 3/8 x 15 " "                           | 1 80             | 15              |
| 114 3/8 x 7 " "                          | 1 11             | 1 27            |
| 29 3/8 x 9 " "                           | 1 29             | 37              |
| 34 3/8 x 11 " "                          | 1 46             | 50              |
| 42 3/8 x 8 " "                           | 1 20             | 50              |
| 50 lbs 1/2" " "                          | .06 lb           | 3 00            |
| 42 " 1/4" " "                            | 06               | 2 52            |
| 30 lbs assorted bolts                    | 05               | 1 50            |
| 1 1/2 box bolt washers                   |                  | 4 00            |
| 1 bar 1/2" round soft steel 436" - 3 lbs | 2.40             | .07             |
| 30 ft rubber belt 8"                     | .27              | 7 10            |
| 31 steel belt lacings                    | 01               | 31              |
| 31 3" x 12" battens                      | 20               | 6 20            |
| 14 iron braces                           | 25               | 3 50            |
| 50 ft 3" O.D. casing                     | per 100 ft 18.10 | 9 05            |
| 8 ft. 6" O.D. casing                     | .80              | 6 40            |
| 1 bbl cement                             | 2 40             | 2 40            |
| 2 10" couplings                          | 2 45             | 4 90            |
| 2 6" " "                                 | 2 00             | 4 00            |
| 1 empty drum                             | 5 00             | 5 00            |
| 1 electric switch                        | 4 00             | 4 00            |
| 2 evaporation measuring pans             | 26 50            | 53 00           |
| 1 fire extinguisher                      | 15 00            | 15 00           |
| 1 coil flax                              | 10               | 10              |
| 5 1/2 lbs flax                           | 20               | 1 10            |
| 1 3" ft foot valve                       | 1 75             | 1 75            |
| 5 5-watt globes                          | 20               | 1 00            |
| 16 hinges                                | 30               | 4 80            |
| 80 strips sheet iron 3" x 3'6" 735 lbs   | 04               | 29 40           |
| 1 handle lath                            | 40               | 40              |
| 10 lbs lead                              | 05               | 50              |
| 1 pump lubricator                        | <del>2 50</del>  | <del>2 50</del> |

Material on hand (Cont'd.)

|  |            |          |           |
|--|------------|----------|-----------|
| 62 pos. R.W.                             | 4"x5"x5'   | 518' BM) |           |
| 21 " "                                   | 4"x5"x12'  | 420 "    |           |
| 66 " OP                                  | 2"x4"x20'  | 880 "    |           |
| 2 " "                                    | 4"x4"x16'  | 43 "     |           |
| 5 " "                                    | 2"x4"x19'  | 33 "     |           |
| 6 " "                                    | 2"x3"x8'   | 24 "     |           |
| 3 " "                                    | 2"x6"x8'   | 24 "     |           |
| 13 " "                                   | 1"x12"x16' | 208 "    |           |
| 106 " "                                  | 2"x3"x3'   | 159 "    |           |
| 1059 " "                                 | posts      | 7000 "   |           |
|  |            | 9309' BM | \$ 19.00  |
| 1 Bee meter (old)                        | 1"         |          | \$ 177.50 |
| 2 Gem " "                                | 6"         |          | 8 40      |
| 1 " " "                                  | 3"         |          | 200 00    |
| 1 Lambert " "                            | 1"         |          | 85 00     |
| 63 National " "                          | 5/8"       |          | 8 40      |
| 1 Trident meter                          | 1"         |          | 7 25      |
| 2 Trident " "                            | 3/4"       |          | 16.80     |
| 61 Worthington " "                       | 5/8"       |          | 7 50      |
| 1 meter box                              |            |          | 15 00     |
| 7 discs 1 1/2" Lam. Bee                  |            |          | 442.25    |
| 3 " 2" " "                               |            |          | 7 25      |
| 11 " 1" " "                              |            |          | 1 00      |
| 10 " 3/4" " "                            |            |          | 4 15      |
| 5 " 1" Hersey                            |            |          | 6 30      |
| 1 " 1 1/4" " "                           |            |          | 18 90     |
| 8 " 1" Trident                           |            |          | 2 75      |
| 7 " 5/8" " "                             |            |          | 30 25     |
| 3 " 1/2" " "                             |            |          | 1 75      |
| 4 " 5/8" Worthington                     |            |          | 17 50     |
| 8 Disc Chamber partition 1 1/2" Lam. Bee |            |          | 1 25      |
| 5 " " " "                                | 1" " "     |          | 6 25      |
| 3 " " " "                                | 5/8" " "   |          | 1 50      |
| 7 " " " "                                | 1/2" " "   |          | 1 50      |
| 1 " " ball 1 1/2" Worthington            |            |          | 2 75      |
| 124 " " clamp screws 1"                  |            |          | 22 00     |
| 14 " " " "                               | 1"         |          | .85       |
| 19 " " " "                               | 3/4"       |          | 5 95      |
| 42 " " " "                               | 1/2"       |          | .60       |
| 14 " " " "                               | 2"         |          | 1 80      |
| 16 Stems 1 1/2"                          |            |          | .85       |
| 37 " 1"                                  |            |          | 3 40      |
| 2 " 3/4"                                 |            |          | .22       |
| 23 dials                                 |            |          | 1.76      |
| 2 emery sheets                           |            |          | .22       |
| 53 eccentric cups 1/2" to 1 1/2"         |            |          | 1.10      |
| 220 Flange gaskets 5/8" to 1 1/2"        |            |          | .22       |
| 102 flange bolts 2"                      |            |          | 66        |
| 102 " " 1"                               |            |          | .22       |
| 25 " " 1/2"                              |            |          | 1 54      |
| 49 " " 5/8"                              |            |          | 25        |
| 9 files - small                          |            |          | 25        |
| 6 2" cup gaskets                         |            |          | 25        |
| 24 small gaskets                         |            |          | 9 25      |
| 30 register glasses                      |            |          | 25        |
| 54 gears duplex                          |            |          | 50        |

Material on hand (Cont'd)

|       |  |                          |        |        |
|-------|--|--------------------------|--------|--------|
| 5     | gears                                  | 1" bridge                | \$ .15 | \$ .75 |
| 4     | "                                      | 1" frame                 | .15    | .60    |
| 1     | "                                      | 2" "                     | .15    | .15    |
| 1     | "                                      | 5/8" "                   | .15    | .15    |
| 5     | gears                                  | - worthington            | .15    | .75    |
| 6     | "                                      | 29 tooth                 | .15    | .90    |
| 5     | "                                      | 27 "                     | .15    | .75    |
| 4     | "                                      | 37 "                     | .15    | .60    |
| 4     | "                                      | 38 "                     | .15    | .60    |
| 5     | "                                      | 15 "                     | .15    | .75    |
| 4     | "                                      | 14 "                     | .15    | .60    |
| 8     | "                                      | 41 "                     | .15    | 1 .20  |
| 19    | "                                      | 8 "                      | .15    | 2 .85  |
| 1     | "                                      | 36 "                     | .15    | .15    |
| 1     | "                                      | 50 "                     | .15    | .15    |
| 1     | "                                      | 42 "                     | .15    | .15    |
| 20    | "                                      | 32 " Trident No 1        | .15    | 3 .00  |
| 19    | "                                      | 32 " "                   | .15    | 2 .85  |
| 18    | "                                      | 32 " "                   | .15    | 2 .70  |
| 14    | "                                      | 32 " "                   | .15    | 2 .10  |
| 18    | "                                      | 45 " "                   | .15    | 2 .70  |
| 13    | Pinions                                | 1/2" Eccentric Bee       | .15    | 1 .65  |
| 28    | "                                      | 3/4" " "                 | .15    | 4 .20  |
| 8     | "                                      | 1" " "                   | .15    | 1 .20  |
| 29    | "                                      | 1 1/2" " "               | .15    | 5 .35  |
| 6     | "                                      | 1 1/2" Lambert Eccentric | .15    | .90    |
| 22    | "                                      | 1" " "                   | .15    | 3 .30  |
| 18    | "                                      | 1" Bridge Lambert        | .15    | 2 .70  |
| 6     | "                                      | 1" Center "              | .15    | .90    |
| 5     | "                                      | " Trident                | .15    | .75    |
| 18    | Register screws                        | 2" Lambert               | .05    | .90    |
| 1     | "                                      | cup 2" "                 | .75    | .75    |
| 41    | "                                      | " 1 1/2" "               | .60    | 24 .60 |
| 48    | "                                      | " Trident                | .60    | 28 .80 |
| 100   | "                                      | hands                    | .002   | .20    |
| 16    | Register rubber posts                  | Trident                  | .05    | .80    |
| 60    | Stuffing box glands                    | Lambert                  | .05    | 3 .00  |
| 6     | "                                      | boxes "                  | .05    | .30    |
| 5     | Stuffing box shafts                    | Bee                      | .30    | 1 .80  |
| 1     | Bristol automatic water stage register |                          |        | 57 .00 |
| 4     | metal gauge plates                     |                          | .85    | 3 .40  |
| 1     | 300-lb pressure gauge                  |                          | 1 .50  | 1 .50  |
| 6     | 200-lb "                               |                          | 1 .50  | 9 .00  |
| 24    | Register screws                        |                          | .05    | 1 .20  |
| 10    | Wheels 2" centers                      |                          | .10    | 1 .00  |
| 7     | unions 1" brass                        |                          | .40    | 2 .80  |
| II    | XXXXXXXX                               |                          | .85    | 1 .85  |
| 1 1/2 | kegs nails                             | 20d                      | 2 .60  | 3 .90  |
| 4     | "                                      | 30d                      | 2 .40  | 9 .60  |
| 1     | "                                      | 40d                      | 2 .40  | 2 .40  |
| 1     | "                                      | 4d                       | 2 .40  | 2 .40  |
| 1 1/2 | "                                      | 6d                       | 2 .40  | 3 .60  |
| 3     | "                                      | assorted                 | 2 .40  | 7 .20  |
| 2     | lbs shingle nails                      |                          | .05    | .10    |

Material on Hand (Cont'd)

|     |                          |        |         |
|-----|--------------------------|--------|---------|
| 2   | lbs oakum                | \$ .08 | \$ .16  |
| 27  | bales oakum              | 3 .75  | 101.25  |
| 11  | empty oil cans - 1 gal   | .20    | 2 .20   |
| 12  | empty oil cans - machine | .14    | 1 .68   |
| 2   | oil cup gage glasses     | .20    | .40     |
| 12  | ft 2" lead pipe          | .32    | 3 .84   |
| 100 | ft 2" iron pipe          | 10.55  | 10.55   |
| 102 | bushings 2" x 1"         | .14    | 14 .28  |
| 26  | 2" brass nipples         | 1 .25  | 32 .50  |
| 12  | 2" brass unions          | 2 .00  | 24 .00  |
| 31  | air valves 2"            | 1 .25  | 38 .60  |
| 15  | crosses 2"               | .75    | 11 .25  |
| 164 | couplings 2"             | .82    | 134 .00 |
| 9   | " 2" dresser             | .75    | 6 .75   |
| 10  | curb cocks 2"            | 1 .40  | 14 .00  |
| 78  | ells 2"                  | .32    | 25 .10  |
| 6   | hydrant connections 2"   | 2 .50  | 15 .00  |
| 85  | leak clamps 2"           | .10    | 8 .50   |
| 330 | nipples 2"               | .23    | 76 .00  |
| 23  | plugs 2"                 | .05    | 1 .15   |
| 104 | reducers                 | .35    | 36 .40  |
| 64  | tees 2"                  | .41    | 26 .24  |
| 11  | tapping clamps 2 x 4     | .35    | 3 .85   |
| 21  | unions 2"                | 1 .00  | 21 .00  |
| 10  | valves 2"                | 2 .25  | 22 .50  |
| 96  | bushings 1 1/2 x 1"      | .06    | 5 .76   |
| 2   | couplings 1 1/2"         | .09    | .18     |
| 2   | gate valve 1 1/2"        | 2 .00  | 4 .00   |
| 62  | nipples 1 1/2"           | .16    | 9 .00   |
| 15  | ells 1 1/2"              | .23    | 3 .45   |
| 16  | tees 1 1/2"              | .29    | 4 .64   |
| 3   | reducers                 | .52    | 1 .56   |
| 22  | unions 1 1/2"            | .75    | 16 .25  |
| 29  | ells 1 1/2"              | .18    | 5 .22   |
| 29  | tees 1 1/2"              | .23    | 6 .67   |
| 24  | unions 1 1/2"            | .70    | 16 .90  |
| 2   | gate valves 1 1/2"       | 1 .40  | 2 .80   |
| 128 | ells 1"                  | .12    | 15 .16  |
| 90  | service cocks 1"         | .70    | 63 .00  |
| 15  | couplings 1"             | .13    | 1 .95   |
| 95  | leak clamps 1"           | .26    | 24 .70  |
| 206 | nipples 1"               | .08    | 16 .80  |
| 101 | reducers                 | .40    | 40 .40  |
| 53  | tees 1"                  | .15    | 7 .95   |
| 106 | unions 1"                | .33    | 35 .00  |
| 1   | gate valve 1"            | 1 .25  | 1 .25   |
| 900 | ft black iron pipe 3/4"  | .05    | 45 .00  |
| 76  | bushings                 | .03    | 2 .28   |
| 127 | couplings 3/4"           | .03    | 3 .80   |
| 24  | couplings 3/4" dresser   | .35    | 8 .40   |
| 196 | curb cocks 3/4"          | .31    | 60 .76  |
| 129 | ells 3/4"                | .09    | 11 .60  |
| 165 | leak clamps 3/4"         | .10    | 16 .50  |



Material on Hand (Cont'd)

|                               |        |          |
|-------------------------------|--------|----------|
| 795 nipples 3/4"              | \$ .09 | \$ 63.60 |
| 22 plugs 3/4"                 | .02    | 44       |
| 110 tees 3/4"                 | 12     | 13 20    |
| 177 street ells 3/4"          | 06     | 10 70    |
| 96 unions 3/4"                | 33     | 31 60    |
| 4 gate valves 3/4"            | 75     | 3 00     |
| 13 extension pieces 3/4"      | 05     | 65       |
| 8 bushings 3"                 | 11     | 88       |
| 5 couplings 3"                | 3 70   | 18 50    |
| 22 nipples 3"                 | 72     | 15 90    |
| 19 plugs 3"                   | 09     | 1 71     |
| 2 tees 3"                     | 55     | 1 10     |
| 2 ells 3"                     | 85     | 1 70     |
| 6 crosses 3"                  | 2 00   | 12 00    |
| 5 gate valves 3"              | 8 00   | 40 00    |
| 2 bushings 4"                 | 40     | 80       |
| 1 cross 4"                    | 1 10   | 1 10     |
| 3 flanges 4"                  | 1 50   | 4 50     |
| 1 gate valve 4"               | 8 00   | 8 00     |
| 2 ells 4"                     | 1 20   | 2 40     |
| 1 plug 4"                     | 42     | 42       |
| 2 tees 4"                     | 1 75   | 3 50     |
| 2 reducers 4"                 | 4 00   | 8 00     |
| 1 gate valve 4"               | 22 40  | 22 40    |
| 19 bands 20"                  | 1 00   | 19 00    |
| 84 lugs                       | 20     | 16 80    |
| 173 lugs                      | 20     | 34 60    |
| 1 plug 20"                    | 15 00  | 15 00    |
| 10 saddles 20"                | 6 00   | 60 00    |
| 1 valve stem 20"              | 10 00  | 10 00    |
| 37 bands 15"                  | 80     | 29 60    |
| 1 cast iron sleeve 15"        | 2 00   | 2 00     |
| 5 saddles 15"                 | 4 20   | 21 00    |
| 10 old clamps 15"             | 40     | 4 00     |
| 78 bands 36"                  | 1 25   | 97 50    |
| 23 bands 8"                   | 75     | 17 25    |
| 1 ball float                  | 40     | 40       |
| 1 casing cap 12"              | 5 00   | 5 00     |
| 1 coupling 8"                 | 2 40   | 2 40     |
| 12 ells 1/2"                  | 07     | 84       |
| 14 ells 3/8" street           | 22     | 3 08     |
| 1 ell 10"                     | 6 00   | 6 00     |
| 2 ells 6"                     | 1 05   | 2 10     |
| 1 flange union 6"             | 1 35   | 1 35     |
| 2 flanges 6"                  | 2 25   | 4 50     |
| 1 flange 8"                   | 2 50   | 2 50     |
| 6 gate valves 6"              | 12 75  | 76 50    |
| 18 gate box tops 8"           | 1 30   | 23 40    |
| 5 gate box tops 6"            | 1 15   | 5 75     |
| 149 lugs for 1/2" round bands | 25     | 37 25    |
| 7 lead gaskets 2"             | 10     | 70       |
| 47 lead gaskets 3/4"          | 05     | 2 35     |
| 45 lead gaskets 1"            | 05     | 2 25     |
| 1 plug 12"                    | 3 00   | 3 00     |

Material on Hand (Cont'd)

|  |          |         |
|--|----------|---------|
| 4 plugs 6"                                     | \$ 1.20  | \$ 4.80 |
| 2 reducers 6 x 10"                             | 12 00    | 12 00   |
| 8 saddles 8"                                   | 1 00     | 8 00    |
| 2 tees 2 x 2 x 1"                              | 41       | 82      |
| 20 tapping clamps 4 x 1"                       | 62       | 12 40   |
| 21 " " 3 x 1"                                  | 44       | 9 24    |
| 7 " " 3 x 2"                                   | 53       | 3 71    |
| 1 " " 6 x 3"                                   | 1 73     | 1 73    |
| 5 " " 4 x 2"                                   | 70       | 3 50    |
| 57 " " 2 x 3/4"                                | 35       | 19 95   |
| 2 " " 6 x 3"                                   | 1 73     | 3 46    |
| 1 paddle                                       | 30       | 30      |
| 1 roll 3/4" packing flax                       | .30 lb   | 1 20    |
| 1 pail   | 20       | 20      |
| 1 gallon paint                                 | 1 00     | 1 00    |
| 4 paint brushes                                | 25       | 1 00    |
| 18 ft 1" standard pipe                         | 4 85     | 87      |
| 12 ft 6" standard pipe                         | 59 05    | 7 09    |
| 1 pump, box, barrel, pipe                      | 5 00     | 5 00    |
| 1 pump 2 1/2" spray                            | 35 00    | 35 00   |
| 4 small wood pulleys                           | 1 00     | 4 00    |
| 2 steel pulleys 16"                            | 2 00     | 4 00    |
| 1 steel pulleys 12"                            | 1 50     | 1 50    |
| 150 ft rubber 1/8" x 3' - 150 lbs              | .60      | 90 00   |
| 6 lbs rosin                                    | 05       | 18      |
| 30 register cup gaskets                        | 05       | 1 50    |
| 1 rain gauge                                   | 3 00     | 3 00    |
| 9 rain gauges                                  | 3 00     | 27 00   |
| <del>2 HERR</del>                              |          |         |
| 50 lbs iron rivets                             | 05       | 2 50    |
| 300 ft 1/2" rope - manilla                     | 10 lb    | 47 00   |
| 500 lbs rope                                   | 10       | 50 00   |
| 100 ft 3/4" rope - manilla                     | 10       | 10 00   |
| 5 lbs roofing nails                            | 10       | 50      |
| 1 bal corrugated galv roofing iron             | 3.90 sq  | 5 07    |
| 20 ft rubber belt 3"                           | 26       | 5 20    |
| 13 inches rubber belt 5"                       | 43 ft    | 43      |
| 20 lbs <del>knack</del> leak rubber            | 60       | 13 00   |
| 6 pairs rubber boots                           | 5 50     | 33 00   |
| 42 1" brass wood screws                        | 48 grs   | 14      |
| 3 boxes 1 1/2" screws                          | 20       | 60      |
| 1 " 3" "                                       | 30       | 30      |
| 210 lag screws                                 | 05       | 10 50   |
| 1/2 roll 1/8" mesh screen                      | 10 00    | 5 00    |
| 5 bundles shingles                             | 75       | 3 75    |
| 2 1/2 lbs solder                               | 33       | 84      |
| 2 sets steel stencils                          | 2 00     | 4 00    |
| 7 bars tire iron 1/2" x 1 1/2" 133.5 lbs       | 6.00 cwt | 8 01    |
| 36 strips steel 1 1/2" x 3" x 1/2" 1102 lbs at | 2.80 "   | 30 86   |
| 2 1/2 rolls tar paper                          | 1 60     | 3 60    |
| 1 500 gallons water tank                       | 18 00    | 18 00   |
| 1 50 gallon gas tank                           | 10 00    | 10 00   |
| 4 tarpaulins 10 x 12                           | 6 45     | 25 80   |

Material on Hand (Cont'd)

|                                       |            |          |           |       |
|---------------------------------------|------------|----------|-----------|-------|
| 1 1/2 rolls telephone wire            | 18.60      | 1,000 ft | \$        | 27.90 |
| 1 box telephone insulators            |            |          | \$ 9.00 M | 9 00  |
| 20 ft tin tube                        |            |          | 08        | 1 60  |
| 1 watering trough                     |            |          | 3 00      | 3 00  |
| 3 bbls trestles plates 6"             |            |          |           | 4 50  |
| 2 " " " 10"                           |            |          |           | 3 60  |
| 2 " twine                             |            |          |           | 1 00  |
| 12 water glasses                      |            | 10       |           | 1 20  |
| 740 washers 5/8"                      |            | 01       |           | 7 40  |
| 75 lbs assorted washers               |            | 03       |           | 2 25  |
| 1 1/2 rolls telephone wire No 14      |            | 2 90     |           | 3 35  |
| 1 roll ribbon wire                    |            | 2 80     |           | 2 80  |
| 29 rolls barbed wire                  |            | 2 80     |           | 81 20 |
| 1 1/2 kags wire staples               |            | 3 00     |           | 4 50  |
| 100 ft insulated wire                 | 18.60      | M ft     |           | 1 86  |
| 9-3/4 rolls chicken wire 4 ft wide    |            | 3 50     |           | 34 13 |
| 2-3/4 rolls reinforcing mesh 42" wide | 1444 sq ft | 2550 sq  |           | 36 10 |
| 1 12 ft wind mill, tower, tank, etc.  |            | 70 00    |           | 70 00 |

Total ----- \$ 4,289.48

THE CUYAMAGA WATER COMPANY

SUPPLIES ON HAND

Inventory January 1st, 1914.

|                                   | Price   | Cost    |
|-----------------------------------|---------|---------|
| 18 boxes axle grease              | \$ .10  | \$ 1.80 |
| 2-3/4 bbls blue stone             | 6 00    | 16 50   |
| 70 blasting caps                  | 01      | 70      |
| 1 sack blacksmith coal            | 1 62    | 1 62    |
| 3 lbs borax                       | 07      | 21      |
| 2 1/2 lbs olimax welding compound | 09      | 24      |
| 1 pkg citrus washing powder       | 15      | 15      |
| 2 lbs corn meal                   | 03      | 06      |
| 1 bbl crude oil                   | 03      | 1 50    |
| 17 gals coal oil                  | 08      | 1 36    |
| 5 lbs cup grease                  | 20      | 1 00    |
| 2 bbls distillate                 | 06      | 6 00    |
| 10 sticks dynamite                | .17 1/2 | 1 75    |
| 1 stick dixon belt dressing       | 25      | 25      |
| 50 gals gasoline                  | 16      | 8 00    |
| 2 tons hay                        | 20 00   | 40 00   |
| 125 bales hay                     | 1 20    | 150 00  |
| 1/2 bale oat hay                  | 1 20    | 60      |
| 1/2 bale alfalfa hay              | 1 20    | 60      |
| 2 pints muriatic acid             | 15      | 30      |
| 1 gal lubricating oil             | 50      | 50      |
| 2 bbl lime                        | 1 75    | 3 50    |
| 30 lbs lead                       | 06      | 1 80    |
| 2 1/2 gals linseed oil            | 72      | 1 80    |
| 1 gal lard oil                    | 90      | 90      |
| 1 bbl machine oil                 | 40      | 20 00   |
| 1 case canned milk                | 3 90    | 3 90    |
| 1 lb polarine grease              | 20      | 20      |
| 50 lbs salt                       | .01 1/2 | 75      |
| 2 bars soap                       | 05      | 10      |
| 1 lb tea                          | 50      | 25      |
| 1 qt vinegar                      | 20      | 20      |
| 15 lbs waste                      | 13      | 1 95    |
| 12 gals zerolene oil              | 35      | 4 20    |

Total ----- \$ 272.69

THE GUYAMACA WATER COMPANY

CONSTRUCTION PLANT

Inventory January 1st, 1914.

|                                      | Price     | Cost      |
|--------------------------------------|-----------|-----------|
| 2 cement mixers (A. F. George & Co.) | \$ 150.00 | \$ 500.00 |
| 1 " mixing box                       | 6 00      | 6 00      |
| 1 " mixer chain                      | 1 50      | 1 50      |
| 6 gravel screens                     | 1 50      | 9 00      |
| 1 stationery swing (saw mill equip.) | 60 00     | 60 00     |
| 1 30" circular rip saw               | 5 70      | 5 70      |
| 1 16" " " "                          | 3 90      | 3 90      |
| 1 20" " cross cut saw                | 5 70      | 5 70      |
| 1 3" centrifugal pump                | 60 00     | 60 00     |
| 1 4-H-P West Coast gas engine --     | 274 00    | 274 00    |
|                                      |           | \$ 725.80 |

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THE GUYAMACA WATER COMPANY

CAMP EQUIPMENT

Pg 1.

Inventory January 1st, 1914.

|                                 | Price   |     | Cost    |
|---------------------------------|---------|-----|---------|
| 3 empty alcohol barrels         | \$ 2.50 |     | \$ 7.50 |
| 63 wash bowls                   | 1.50    | dz  | 7 38    |
| 7 sugar "                       | 2 00    | "   | 1 25    |
| 20 mixing "                     | 2 80    | "   | 4 65    |
| 2 pair blankets                 | 2 00    |     | 4 00    |
| 1 iron bed                      | 1 00    |     | 1 00    |
| 1 bread board                   | 15      |     | 15      |
| 6 brooms                        | 40      |     | 2 40    |
| 1 can opener                    | 10      |     | 10      |
| 1 canteen                       | 50      |     | 50      |
| 3 empty oil cans                | 10      |     | 30      |
| 3 " lard cans                   | 25      |     | 75      |
| 2 clocks                        | 90      |     | 1 80    |
| 3 cleavers                      | 1 25    |     | 3 75    |
| 23 coffee pots                  | 40      |     | 9 20    |
| 1 " " 3 gal                     | 75      |     | 75      |
| 95 cups                         | 05      |     | 4 75    |
| 54 folding cots                 | 2 50    | dz  | 135 00  |
| 1 swinging cot                  | 5 00    |     | 5 00    |
| 3 cake turners                  | 10      |     | 30      |
| 24 large dishes                 | 10      |     | 2 40    |
| 35 small "                      | 05      |     | 1 75    |
| 3 dippers                       | 1.65    | dz  | 5 01    |
| 8 dish pans                     | 75      |     | 6 00    |
| 2 egg beaters                   | 25      |     | 50      |
| 1 engineers table               | 5 00    |     | 5 00    |
| 3 fly traps                     | 10      |     | 30      |
| 3 flour sifters                 | 20      |     | 60      |
| 137 table forks                 | 5 90    | grs | 5 48    |
| 5 meat forks                    |         |     | 1 60    |
| 8 funnels                       | 15      |     | 1 20    |
| 3 kettles                       | 50      |     | 1 50    |
| 8 butcher knives                | 1 15    |     | 9 20    |
| 3 paring knives                 | 33      |     | 99      |
| 116 table knives                | 5 90    | grs | 4 64    |
| 1 scraping knife                | 50      |     | 50      |
| 1 4" ladle                      | 50      |     | 50      |
| 23 lamps                        | 40      |     | 13 20   |
| 20 " brackets                   | 20      |     | 4 00    |
| 24 " chimneys                   | 10      |     | 2 40    |
| 9 " reflectors                  | 10      |     | 90      |
| 7 " wicks                       | 05      |     | 35      |
| 11 lanterns                     | 90      |     | 9 90    |
| 24 mattresses                   | 2 00    |     | 48 00   |
| 1 meat chopper                  | 80      |     | 80      |
| 1 " saw                         | 70      |     | 70      |
| 6 milk pitchers                 | 3 00    | dz  | 1 50    |
| 2 bundles mops (cotton 3.25 dz) |         |     | 6 50    |
| 40 ft oil cloth                 | 05      |     | 2 40    |
| 13 bake pans                    | 20      |     | 2 60    |

CAMP EQUIPMENT

Inventory January 1, 1914.

|                         | <u>Price</u> | <u>Cost</u> |
|-------------------------|--------------|-------------|
| 12 frying pans          | \$ .50       | \$ 6.00     |
| 10 biscuit pans         | .40          | 4.00        |
| 25 pie pans             | .05          | 1.25        |
| 6 pillows               | .50          | 3.00        |
| 80 dinner plates        | .10          | 8.00        |
| 15 small platters       | .20          | 3.00        |
| 15 large "              | .25          | 3.75        |
| 16 pots                 | .25          | 4.00        |
| 9 " lids                | .10          | .90         |
| 1 potato masher         | .15          | .15         |
| 8 quilts                | 1.00         | 8.00        |
| 3 camp ranges           | 80.00        | 240.00      |
| 1 rolling pin           | .20          | .20         |
| 24 salt shakers         | .05          | 1.20        |
| 144 saucers             | .06          | 8.64        |
| 3 screen doors          | 1.50         | 4.50        |
| 7 tent stoves           | 2.00         | 14.00       |
| 2 cook stoves           | 3.00         | 6.00        |
| 1 sibley stove          | 2.00         | 2.00        |
| 40 joints stove pipe    | .17          | 6.80        |
| 9 elbows "              | .20          | 1.80        |
| 2 scrub brushes         | .15          | .30         |
| 11 skimmers             | .10          | 1.10        |
| 93 soup bowls           | 1.10 dz      | 7.60        |
| 13 " ladles             | 1.65 "       | 1.78        |
| 154 table spoons        | 6.00 grs     | 6.39        |
| 104 tea spoons          | 3.00 grs     | 2.08        |
| 1 butchers steel        | 9.00 dz      | .75         |
| 6 sugar bowls           | 3.00 "       | 1.50        |
| 11 syrup jugs           | 3.00 "       | 2.75        |
| 4 small tables          | 2.00         | 8.00        |
| 2 large tables          | 5.00         | 10.00       |
| 12 tents                | 25.00        | 300.00      |
| 1 box tent stakes       | 2.00         | 2.00        |
| 6 tea pots              | .10          | .60         |
| 1 toaster               | .25          | .25         |
| 6 wash tubs             | 1.00         | 6.00        |
| 14 water pitchers       | .40          | 5.60        |
| 9 wash pans             | .50          | 4.50        |
| 40 ft window screen 34" | 2.00 sq      | 2.25        |

Total ----- \$1,017.49

THE CUYAMACA WATER COMPANY

Tools, Equipment, Wagons, Horses, Harness and Automobiles.

Inventory January 1st, 1914.

|                     | <u>Price</u> | <u>Cost</u> |
|---------------------|--------------|-------------|
| 7 adze              | \$ 1.50      | \$ 10.50    |
| 3 anvils            | 2.50         | 7.50        |
| 1 ship auger 5/8"   | .93          | .93         |
| 3 " " 3/4"          | 1.00         | 3.00        |
| 6 plain augers 5/8" | .85          | 5.10        |
| 4 " " "             | .75          | 3.00        |
| 1 axe               | .75          | .75         |

Automobile Equip.

|                         |        |        |
|-------------------------|--------|--------|
| 1 Ford automobile (old) | 250.00 | 250.00 |
| 1 set chains - Ford     | 4.50   | 4.50   |
| 1 inner tube 30 x 3"    | 3.00   | 3.00   |
| 1 " " 30 x 3 1/2"       | 3.50   | 3.50   |
| 1 oil gun               | 1.50   | 1.50   |
| 1 friction carburetor   | 9.00   | 9.00   |
| 1 water bag 5 Gal       | 1.25   | 1.25   |
| 1 motorcycle (twin)     |        | 25.00  |
| 1 set belt stretchers   | 4.50   | 4.50   |
| 24 bits 1/4 to 1"       | .30    | 7.20   |
| 1 bellows               | 5.00   | 5.00   |
| 1 block and tackle      | 2.50   | 2.50   |
| 3 blacksmith flatters   | .50    | 1.50   |
| 2 " hand chisels        | .09    | .18    |
| 2 " anvil chisels       | .08    | .16    |
| 2 " ballpeen hammers    | .69    | 1.38   |
| 3 " hand punches        | .20    | 1.60   |
| 10 " tongs              | .60    | 6.00   |
| 2 " shovels             | .40    | .80    |
| 3 " rakes               | .40    | 1.20   |
| 1 " dipper              | .40    | .40    |
| 5 hand braces           | 1.00   | 5.00   |
| 3 boats                 | 20.00  | 160.00 |
| 1 bolt cutter           | 2.50   | 2.50   |
| 2 1-yard wire brooms    | 2.00   | 4.00   |
| 12 brush hooks          | 1.50   | 18.00  |
| 2 buggies               | 35.00  | 70.00  |
| 1 dust brush            | .20    | .20    |
| 49 caulking irons       | .50    | 24.50  |
| 1 offset caulking iron  | .75    | .75    |
| 2 cement buckets        | .50    | 1.00   |
| 1 surveyors chain       | 2.00   | 2.00   |
| 27 chisels              | .50    | 13.50  |
| 1 pair pole climbers    | 2.00   | 2.00   |
| 2 cold chisels          | .25    | .50    |
| 7 crow bars             | .60    | 4.20   |
| 3 curry combs           | .50    | 1.50   |
| 1 die 1-1/32"           | .50    | .50    |
| 1 " 1"                  | .50    | .50    |
| 2 hand drill presses    | 5.00   | 10.00  |
| 2 drill bits 3/4"       | .50    | 1.00   |

Inventory January 1st, 1914.

|  | Price | Cost   |
|--|-------|--------|
| 1 drill bit 5/8"                                 | .50   | .50    |
| 1 " " 3/8"                                       | .50   | .50    |
| 1 " " 5/16"                                      | .50   | .50    |
| 1 " " 1/4"                                       | .50   | .50    |
| 40 stone drills (1'6" to 4') 110 lin.ft.         |       |        |
| 7/8" octagon drill steel = 237.2 lbs at 7.50 cwt | 17.79 | 17.79  |
| 1 dresser hammer                                 | .50   | .50    |
| 10 drills 1/4 to 1"                              | .50   | 5.00   |
| 1 emery wheel 3/8 x 8"                           | 2.35  | 2.35   |
| 1 " " 3/8 x 7"                                   | 2.00  | 2.00   |
| 3 taper files 10"                                | .20   | .60    |
| 12 bastard mill files 8"                         | .09   | 1.08   |
| 3 " " " 12"                                      | .14   | .42    |
| 14 " " " 7"                                      | .08   | 1.12   |
| 3 forges   | 30.00 | 90.00  |
| 1 forge hood                                     | 4.00  | 4.00   |
| 2 gasoline torches                               | 4.50  | 9.00   |
| 7 grind stones                                   | 5.00  | 35.00  |
| 39 claw hammers                                  | .50   | 19.50  |
| 16 sledge hammers                                | .75   | 12.00  |
| 4 machine hammers                                | .75   | 3.00   |
| 10 hammer handles                                | .08   | .80    |
| 1 halter   | 1.00  | 1.00   |
| 1 single harness                                 | 30.00 | 30.00  |
| 1 double harness                                 | 75.00 | 75.00  |
| 15 hatchets                                      | .75   | 11.25  |
| 15 hoes  | .85   | 12.75  |
| 1 " handle                                       | .15   | .15    |
| 6 horses   | 75.00 | 450.00 |
| 30 ft hose                                       | .10   | 3.00   |
| 1 jack plane                                     | 1.25  | 1.25   |
| 12 screw jacks                                   | 2.90  | 28.80  |
| 1 wagon jack                                     | 2.50  | 2.50   |
| 1 lead furnace and kettle                        | 8.00  | 8.00   |
| 1 level  | 1.50  | 1.50   |
| 3 drills 4/32, 10/32, 16/32"                     |       | .48    |
| 9 files - small                                  | .15   | 1.35   |
| 11 mattock                                       | .85   | 9.35   |
| 1 lawn mower                                     |       | 4.50   |
| 6 pair car locks                                 | .20   | 1.20   |
| 4 pair cars                                      | 2.00  | 8.00   |
| 4 car sockets                                    | .15   | .60    |
| 1 3-wheel pipe cutter                            | 1.80  | 1.80   |
| 1 stock and dies                                 | 6.50  | 6.50   |
| 2 3-wheel pipe cutters                           | 3.50  | 7.00   |
| 3 curb turn-off keys                             | 1.50  | 4.50   |
| 18 pinch bars                                    | 1.00  | 18.00  |
| 60 picks   | .85   | 51.00  |
| 43 pick handles                                  | .13   | 13.33  |
| 1 drift pin                                      | .15   | .15    |
| 1 16" pipe cutter                                | 1.30  | 1.30   |
| 3 sets pipe dies and stocks                      | 3.00  | 9.00   |
| 1 pipe die cutter 1/2"                           | 1.30  | 1.30   |

Inventory January 1st, 1914.

|                                       | Price      | Cost   |
|---------------------------------------|------------|--------|
| 1 pipe die cutter 3/4"                | 1.30       | 1.30   |
| 2 " " " 1"                            | 1.30       | 2.60   |
| 1 pipe cutter - 2 roller              | 2.00       | 2.00   |
| 1 pipe tap 1/4"                       | .40        | .40    |
| 7 pitch forks                         | .90        | 6.30   |
| 1 pipe wrench No 24                   | 1.50       | 1.50   |
| 1 block plane                         | .75        | .75    |
| 11 pair plyers                        | .75        | 8.25   |
| 54 punches                            | .10        | 5.40   |
| 7 garden rakes                        | .75        | 5.25   |
| 1 rasp 14"                            | .62        | .62    |
| 3 saw sets                            | .60        | 1.80   |
| 3 old saws                            | .25        | .75    |
| 3 hack "                              | .75        | 2.25   |
| 2 26" "                               | 1.00       | 2.00   |
| 1 7 ft. "                             | 6.50       | 6.50   |
| 2 5 ft. "                             | 4.50       | 4.50   |
| 3 rip " 19"                           | 1.00       | 3.00   |
| 24 18" "                              | 1.00       | 24.00  |
| 1 30" "                               | 1.20       | 1.20   |
| 1 15" "                               | .90        | .90    |
| 2 buck "                              | 1.00       | 2.00   |
| 3 sets scaffold irons                 | 10.00      | 30.00  |
| 2 screw drivers                       | .50        | 1.00   |
| 14 scythes                            | 3.50       | 49.00  |
| 4 " handles                           | 1.50       | 6.00   |
| 35 shovels - round point              | 1.10       | 38.50  |
| 19 " - square point                   | 1.10       | 20.90  |
| 1 " - scoop                           | 1.50       | 1.50   |
| 1 pair tin shears                     | 2.25       | 2.25   |
| 1 square - 2 foot                     | 1.00       | 1.00   |
| 2 sets stocks and dies (Oster M F Co) | 9.00       | 18.00  |
| 1 swedge (No 2 Atkins)                | 1.00       | 1.00   |
| 1 tapping machine (Mueller 262)       | 3.15       | 3.15   |
| 1 " " " " 15)                         | 3.15       | 3.15   |
| 1 set taps and dies (Green River)     | 13.50      | 13.50  |
| 1 " " " " (Little Giant No 65)        | 18.00 disc | 17.05  |
| 2 2" taps                             | 2.18       | 4.36   |
| 11 tee squares                        | .50        | 5.50   |
| 3 trowels                             | .60        | 1.80   |
| 1 pair 48" chain tongs                | 5.00       | 5.00   |
| 1 " 36" " "                           | 5.00       | 5.00   |
| 1 " 24" " "                           | 5.00       | 5.00   |
| 2 pipe vises                          | 3.00       | 6.00   |
| 1 blacksmith vise                     | 6.00       | 6.00   |
| 2 Erie No 334 vises                   | 5.50       | 11.00  |
| 5 wagons                              | 30.00      | 150.00 |
| 10 whitewash brushes                  | .15        | 1.50   |
| 10 wheelbarrows                       | 4.50       | 45.00  |

Inventory January 1st, 1914.

|                                 | <u>Price</u> | <u>Cost</u>        |
|---------------------------------|--------------|--------------------|
| 16 wedges - 6 lbs each = 96 lbs | \$ .20       | \$ 19.20           |
| 1 wire stretcher                | 1 50         | 1 50               |
| 2 5-ft windless 6" drum         | 2 00         | 4 00               |
| 15 monkey wrenches              | .85          | 12 75              |
| 2 22" "                         | 75           | 1 50               |
| 2 pipe "                        | 1 50         | 3 00               |
| 1 12" "                         | 70           | 70                 |
| 1 12" adjustable wrench         | 80           | 80                 |
| 13 open end "                   | 25           | 3 25               |
| 2 " " engine "                  | 50           | 1 00               |
| 7 " " double "                  | 50           | 3 50               |
| 1 36" stillson "                | 3 50         | 3 50               |
| 2 24" " "                       | 2 30         | 4 60               |
| 2 18" " "                       | 1 75         | 3 50               |
| 1 12" " "                       | 1 00         | 1 00               |
| 2 14" " "                       | 1 20         | 2 40               |
| 1 10" " "                       | 80           | 80                 |
| 3 1/2" brace socket wrench      | 30           | 90                 |
| 1 2 1/2" " " "                  | 60           | 60                 |
| 2 socket "                      | 25           | 50                 |
| 2 10" crescent "                | 75           | 1 50               |
| 1 6" " "                        | 50           | 50                 |
| <b>Total -----</b>              |              | <b>\$ 2,499.75</b> |

OFFICE EQUIPMENT AND SUPPLIES.

Inventory Jan. 1, 1914.

|  |      |          |
|--|------|----------|
| 1 - Underwood typewriter -----                                       |      | \$ 68.75 |
| Stationery (estimated)   |      | 30 00    |
| 2 - drafting tables  | 7 00 | 14 00    |
| 1 - map filing case  |      | 52 00    |
| 1 - " " "  |      | 10 00    |
| 2 - small map filing cases   | 5 00 | 10 00    |
| 2 - high stools  | 3 00 | 6 00     |
| Original maps, hydrographic records<br>and distribution system plats |      | 1,000.00 |
| Field Books  |      | 300 00   |
| Counter, stool, map holder   |      | 100 00   |
| 1 mahogany table and two chairs                                      |      | 30 00    |
| 2 office desks and 2 office chairs                                   |      | 154 50   |
| 1 office rug   |      | 30 00    |
| 1 Monarch typewriter   |      | 100 00   |
| 1 check protectograph  |      | 30 00    |
| 1 Dalton adding machine  |      | 285 00   |
| cork linoleum and painting   |      | 115 50   |
| vault doors  |      | 100 00   |
| 1 settee, 1 chair, 1 table, 1 typewriter desk                        |      | 72 00    |
| 1 electric fan - 12"   |      | 16 00    |
| 1 safe   |      | 100 00   |
| 1 high desk  |      | 25 00    |
| Stationery, 1 steel filing cabinet, printing etc                     |      | 135.00   |

Total ----- **\$2,783.75**  
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OPERATING EXPENSE STUDY

Plants No. 2, 3 and 4

The following items were charged as Construction (0-19) on books, and unless picked up by Mr. Faude in his study of 1913, vouchers would not be considered, being operation of Pumping Plants No. 2, 3 and 4 in San Diego River Canyon.

| 1913 | Labor    | Material |                   |
|------|----------|----------|-------------------|
| Oct. | \$162.50 | \$523.99 | \$ 686.49         |
| Nov. | 231.90   | 342.25   | 574.15            |
| Dec. | 55.06    | 8.50     | 63.56             |
|      |          |          | <u>\$1,324.20</u> |

The total number of gallons pumped for the above and pumping expense was:

|       | Sept    | Oct.      | Nov.      | Total             |
|-------|---------|-----------|-----------|-------------------|
| No. 2 |         | 5,250,000 | 7,940,000 | 13,090,000        |
| No. 3 |         |           | 6,860,000 | 6,860,000         |
| No. 4 | 327,000 | 654,000   | 0         | 981,000           |
|       |         |           |           | <u>20,931,000</u> |

Cost per 1,000 gallons pumped - 6-1/3 cents  
 " " 1,000,000 gals. pumped 1 ft. - 35 cents.

Plant No 1 - Total per company books before closing. These figures may duplicate some noted by Mr. Faude, as for instance "Power."

| 1913        | Labor   | Power    | Supplies or Repairs | Total             |
|-------------|---------|----------|---------------------|-------------------|
| Jan.        | \$94.10 | \$276.70 | \$67.70             | \$438.50          |
| Sep.        | 80 00   | 00       | 22 44               | 102 44            |
| Oct.        | 125 00  | 489 70   | 40 69               | 655 39            |
| Nov.        | 125 00  | 386 80   | 109 25              | 621 05            |
| Dec.        | 125 00  | 388 61   | 108 50              | 622 11            |
| <u>1914</u> |         |          |                     |                   |
| Jan         | 125 00  | 303 20   | 5 70                | 434 00            |
| Feb         | 120 00  | 58 34    | 5 66                | 184 00            |
|             |         |          |                     | <u>\$3,057.49</u> |

Estimated:

| 1913        | Water Pumped Gallons | K.W.Hrs. Current used | Cost per month    |
|-------------|----------------------|-----------------------|-------------------|
| Jan         | 5,654,400            | 7,940                 | \$ 439.00         |
| Sept        | 5,378,000            | 16,000                | 102.00            |
| Oct.        | 12,440,000           | 16,860                | 655.00            |
| Nov.        | 16,151,000           | 19,050                | 621.00            |
| Dec.        | 9,750,000            | 17,900                | 622.00            |
| <u>1914</u> |                      |                       |                   |
| Jan         | 2,518,000            | 10,800                | 434.00            |
| Feb         | 448,560              | 900                   | 184.00            |
|             | <u>52,139,960</u>    | <u>89,450</u>         | <u>\$3,057.00</u> |

Cost per 1,000 gallons 5.8 cents

Cost per 1,000,000 gallons lift 1 foot 29 cents

Lift assumed to be 200 feet average.

On this basis the efficiencies stand as follows:

|                     |     |
|---------------------|-----|
| Motor               | 88% |
| Pump                | 53% |
| Combined efficiency | 47% |

Auxiliary plant to Plant No 1.

This plant was put in operation, November 15th and continued to February 6th, 1914. This was a 12 H.P. gas engine and 5 inch centrifugal pump, and was necessary to lift the water after the level of La Mesa Lake fell below the 37 foot level. It supplied both the low service and the suction of Plant No 1, pumping to high service. No special record was kept of the cost, but the monthly charge is about as follows:

|                                |              |
|--------------------------------|--------------|
| Attendance                     | \$75.00      |
| Gasoline - about 10 gals daily | 45.00        |
| Oil, etc.                      | <u>10.00</u> |

\$130.00

The lift averaged between 20 and 30 feet

I conclude that the cost of this auxiliary pumping was 1.1 cents per 1,000 gallons pumped and 46 cents per 1,000,000 gallons lifted one foot.

OPERATION

The following details are noted for your information as shown on operating pay rolls:

Regrading fields and Restoring:

Land washed by flume breaks on operating pay roll September 1913 \$ 55.00

Fighting Fire:

Operating pay roll, September 1913 \$21.00  
" " " " October 6.25 27.25

Clearing La Mesa Ditch:-

An annual cleaning of weeds, etc. for run of water after first rains.

Operating pay roll, September 1913 \$242.75  
" " " " October 125.50 368.25

Patrolling La Mesa Ditch:

(Water turned in February 9, and off April 8)

Operating pay roll, February, 1914 \$181.00  
" " " " March 162.00 343.00

SERVICE CONDITIONS  
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Flume Leakage

For the purpose of ~~maximizing~~ determining the leakage of the flume since lining with asphaltic felt placed in December 1913 and January 1914, the section between Chocolate Section House and Los Cochas Section House, was chosen because of entire absence of service connections, except the one irrigation connection of Dr. Barlow of Lakeside, requiring one miners inch maximum flow.

The length of flume between these points is 9.6 miles.

Sanders and Rising automatic registers are placed at each point and in addition, visual gage readings are made at 6 A.M., noon and 6 P.M. daily as a check. Frequent current meter ratings have been made with Price Current Meters, calibrated by U.S. Geological Survey. The Chocolate Station is measured by W. S. Post and C. E. Hickok and the Los Cochas Station in cooperation with U.S. Geological Survey, by F. C. Ebert, Hydrographer, W. S. Post and C. E. Hickok. These measurements are as follows:

| Date                            | Gage | Discharge | Observer      |
|---------------------------------|------|-----------|---------------|
| Chocolate Section House         |      | Sec. Ft.  |               |
| <u>1914</u>                     |      |           |               |
| Mar 11th                        | .95  | 14.4      | Post & Hickok |
| Mar 30th                        | 1.01 | 15.9      | Post          |
| Apr 4th                         | .98  | 15.0      | Hickok        |
| Apr 24th                        | 1.03 | 15.8      | Hickok        |
| <u>Los Cochas Section House</u> |      |           |               |
| Mar 11th                        | .91  | 14.5      | Hickok & Post |
| Mar 24th                        | .95  | 16.4      | Ebert         |
| Mar 3rd                         | .92  | 16.0      | Ebert         |
| Apr 4th                         | .89  | 14.4      | Hickok        |
| Apr 17th                        | .74  | 10.6      | Ebert         |



Rating curves were platted and the rating tables computed from them are attached herewith, pages S-3 and S-4.

Pages S-5 and S-6 show the gage height determined from the hydrograph of the automatic registers and the corresponding discharge taken from the rating table at each station in March and April, 1914. In each case a larger amount is shown at the lower station than at the upper, which goes to show that the limit of accuracy of the rating table is about 5 percent in March and that it is probable that the quantity of leakage is less than  $\frac{2}{3}\%$ . In April the measurements are in accord with <sup>in</sup> one percent and the probable leakage is less than one-half percent. There was some rain toward the latter part of each month, which would constitute a slight gain. On the other hand, it is probable that ~~the~~ the carrying capacity at Los Ochos was at its maximum early in March and that there has been a gradual decrease its capacity for the same gage height due to the growth of moss.

Further current meter measurements and a slight revision of the rating tables in accord with further readings in May will probably reduce these discrepancies. As it stands, the leakage is obviously somewhat less than 3 percent, which is generally considered to be the accuracy of current meter measurements

CHOCOLATE SECTION HOUSE

Rating Table for 1914.

| <u>Gage</u> | <u>Discharge</u> | <u>Gage</u> | <u>Discharge</u> | <u>Gage</u> | <u>Discharge</u> |
|-------------|------------------|-------------|------------------|-------------|------------------|
| 0           | 0                | .50         | 6.1              | 1.00        | 15.6             |
| .01         | 0.1              | .51         | 6.2              | .01         | 15.8             |
| .02         | 0.2              | .52         | 6.4              | .02         |                  |
| .03         | .3               | .53         | 6.6              | .03         |                  |
| .04         | .4               | .54         | 6.8              | .04         |                  |
| .05         | .5               | .55         | 7.0              | .05         |                  |
| .06         | .5               | .56         | 7.2              | .06         |                  |
| .07         | .6               | .57         | 7.3              | .07         |                  |
| .08         | .7               | .58         | 7.5              | .08         |                  |
| .09         | .8               | .59         | 7.7              | .09         |                  |
| .10         | .9               | .60         | 7.9              | 1.10        |                  |
| .11         | 1.0              | .61         | 8.1              | .11         |                  |
| .12         | 1.1              | .62         | 8.3              | .12         |                  |
| .13         | 1.2              | .63         | 8.5              | .13         |                  |
| .14         | 1.3              | .64         | 8.6              | .14         |                  |
| .15         | 1.4              | .65         | 8.8              | .15         |                  |
| .16         | 1.5              | .66         | 9.0              | .16         |                  |
| .17         | 1.6              | .67         | 9.2              | .17         |                  |
| .18         | 1.7              | .68         | 9.4              | .18         |                  |
| .19         | 1.8              | .69         | 9.6              | .19         |                  |
| .20         | 1.9              | .70         | 9.8              | 1.20        |                  |
| .21         | 2.0              | .71         | 10.0             |             |                  |
| .22         | 2.1              | .72         | 10.1             |             |                  |
| .23         | 2.3              | .73         | 10.3             |             |                  |
| .24         | 2.4              | .74         | 10.5             |             |                  |
| .25         | 2.5              | .75         | 10.7             |             |                  |
| .26         | 2.7              | .76         | 10.9             |             |                  |
| .27         | 2.8              | .77         | 11.1             |             |                  |
| .28         | 3.0              | .78         | 11.3             |             |                  |
| .29         | 3.1              | .79         | 11.4             |             |                  |
| .30         | 3.2              | .80         | 11.7             |             |                  |
| .31         | 3.4              | .81         | 11.8             |             |                  |
| .32         | 3.5              | .82         | 12.0             |             |                  |
| .33         | 3.7              | .83         | 12.1             |             |                  |
| .34         | 3.8              | .84         | 12.3             |             |                  |
| .35         | 3.9              | .85         | 12.4             |             |                  |
| .36         | 4.1              | .86         | 12.5             |             |                  |
| .37         | 4.2              | .87         | 12.7             |             |                  |
| .38         | 4.4              | .88         | 12.8             |             |                  |
| .39         | 4.5              | .89         | 13.0             |             |                  |
| .40         | 4.7              | .90         | 13.1             |             |                  |
| .41         | 4.8              | .91         | 13.3             |             |                  |
| .42         | 4.9              | .92         | 13.6             |             |                  |
| .43         | 5.1              | .93         | 13.8             |             |                  |
| .44         | 5.2              | .94         | 14.1             |             |                  |
| .45         | 5.3              | .95         | 14.4             |             |                  |
| .46         | 5.5              | .96         | 14.6             |             |                  |
| .47         | 5.6              | .97         | 14.9             |             |                  |
| .48         | 5.8              | .98         | 15.1             |             |                  |
| .49         | 5.9              | .99         | 15.4             |             |                  |

LOS COCHES  
Rating Table for 1914

| <u>Gage</u> | <u>Discharge</u> | <u>Gage</u> | <u>Discharge</u> |
|-------------|------------------|-------------|------------------|
| 0           | 0                | .50         | 5.7              |
| .01         | 0                | .51         | 5.9              |
| .02         | 0                | .52         | 6.1              |
| .03         | .1               | .53         | 6.3              |
| .04         | .1               | .54         | 6.5              |
| .05         | .1               | .55         | 6.7              |
| .06         | .1               | .56         | 6.9              |
| .07         | .2               | .57         | 7.1              |
| .08         | .2               | .58         | 7.3              |
| .09         | .2               | .59         | 7.5              |
| .10         | .3               | .60         | 7.7              |
| .11         | .3               | .61         | 7.9              |
| .12         | .4               | .62         | 8.1              |
| .13         | .4               | .63         | 8.3              |
| .14         | .5               | .64         | 8.5              |
| .15         | .6               | .65         | 8.7              |
| .16         | .6               | .66         | 8.9              |
| .17         | .7               | .67         | 9.1              |
| .18         | .8               | .68         | 9.3              |
| .19         | .9               | .69         | 9.5              |
| .20         | 1.0              | .70         | 9.7              |
| .21         | 1.1              | .71         | 9.9              |
| .22         | 1.2              | .72         | 10.1             |
| .23         | 1.4              | .73         | 10.3             |
| .24         | 1.5              | .74         | 10.5             |
| .25         | 1.7              | .75         | 10.6             |
| .26         | 1.8              | .76         | 10.9             |
| .27         | 2.0              | .77         | 11.1             |
| .28         | 2.1              | .78         | 11.3             |
| .29         | 2.3              | .79         | 11.5             |
| .30         | 2.5              | .80         | 11.8             |
| .31         | 2.6              | .81         | 12.0             |
| .32         | 2.8              | .82         | 12.3             |
| .33         | 2.9              | .83         | 12.5             |
| .34         | 3.1              | .84         | 12.8             |
| .35         | 3.2              | .85         | 13.1             |
| .36         | 3.4              | .86         | 13.4             |
| .37         | 3.5              | .87         | 13.7             |
| .38         | 3.7              | .88         | 13.9             |
| .39         | 3.8              | .89         | 14.2             |
| .40         | 4.0              | .90         | 14.5             |
| .41         | 4.2              | .91         | 14.8             |
| .42         | 4.3              | .92         | 15.2             |
| .43         | 4.5              | .93         | 15.6             |
| .44         | 4.6              | .94         | 16.0             |
| .45         | 4.8              | .95         | 16.4             |
| .46         | 4.9              | .96         | 16.7             |
| .47         | 5.1              | .97         | 17.0             |
| .48         | 5.3              | .98         | 17.4             |
| .49         | 5.5              | .99         | 17.7             |
|             |                  | 1.00        | 18.1             |

FLUME MEASUREMENTS FOR MARCH 1914

IN SECOND FEET

|                 | <u>Chocolate</u> |                  | <u>Los Coches</u> |                  |
|-----------------|------------------|------------------|-------------------|------------------|
|                 | <u>Gage</u>      | <u>Discharge</u> | <u>Gage</u>       | <u>Discharge</u> |
| Mar 1           | .95              | 14.4             | .88               | 13.9             |
| 2               | .95              | 14.4             | .91               | 14.8             |
| 3               | .95              | 14.4             | .91               | 14.8             |
| 4               | .94              | 14.1             | .90               | 14.5             |
| 5               | .94              | 14.1             | .92               | 15.2             |
| 6               | .93              | 13.8             | .91               | 14.8             |
| 7               | .90              | 13.1             | .90               | 14.5             |
| 8               | .94              | 14.1             | .90               | 14.5             |
| 9               | .94              | 14.1             | .90               | 14.5             |
| 10              | .94              | 14.1             | .90               | 14.5             |
| 11              | .95              | 14.4             | .91               | 14.8             |
| 12              | .95              | 14.4             | .91               | 14.8             |
| 13              | .96              | 14.6             | .91               | 14.8             |
| 14              | .98              | 15.1             | .93               | 15.6             |
| 15              | 1.00             | 15.6             | .95               | 16.4             |
| 16              | 1.00             | 15.6             | .94               | 16.0             |
| 17              | 1.00             | 15.6             | .93               | 15.6             |
| 18              | 1.00             | 15.6             | .93               | 15.6             |
| 19              | 1.00             | 15.6             | .94               | 16.0             |
| 20              | 1.00             | 15.6             | .94               | 16.0             |
| 21              | 1.00             | 15.6             | .96               | 16.7             |
| 22              | .99              | 15.4             | .95               | 16.0             |
| 23              | .99              | 15.4             | .95               | 16.0             |
| 24              | 1.01             | 15.8             | .96               | 16.7             |
| 25              | 1.00             | 15.6             | .97               | 17.0             |
| 26              | .98              | 15.1             | .96               | 16.7             |
| 27              | .97              | 14.9             | .95               | 16.4             |
| 28              | .97              | 14.9             | .98               | 17.4             |
| 29              | .97              | 14.9             | .98               | 17.4             |
| 30              | .96              | 14.6             | .94               | 16.0             |
| 31              | .96              | 14.6             | .86               | 13.4             |
| Totals          |                  | 459.3            |                   | 482.1            |
| Adjusted Totals |                  | 470.5            |                   | 470.2            |
| Acres-feet      |                  | 931.0            |                   | 931.0            |

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FLUME MEASUREMENTS FOR APRIL-1914.

| <u>Chocolate</u>       |                  | <u>Los Cochis</u> |                  |      |
|------------------------|------------------|-------------------|------------------|------|
| <u>Gage</u>            | <u>Discharge</u> | <u>Gage</u>       | <u>Discharge</u> |      |
| Apr 1                  | .97              | 14.9              | .91              | 14.8 |
| 2                      | 1.00             | 15.6              | .93              | 15.6 |
| 3                      | 1.00             | 15.6              | .89              | 14.8 |
| 4                      | .99              | 15.4              | .90              | 14.5 |
| 5                      | .99              | 15.4              | .92              | 15.2 |
| 6                      | .98              | 15.1              | .95              | 15.6 |
| 7                      | .97              | 14.9              | .92              | 15.2 |
| 8                      | .98              | 15.1              | .95              | 15.6 |
| 9                      | .95              | 14.4              | .89              | 14.2 |
| 10                     | .94              | 14.1              | .90              | 14.5 |
| 11                     | .98              | 15.1              | .90              | 14.5 |
| 12                     | .99              | 15.4              | .90              | 14.5 |
| 13                     | .96              | 14.6              | .88              | 13.9 |
| 14                     | .92              | 13.6              | .84              | 12.8 |
| 15                     | .86              | 12.5              | .82              | 12.3 |
| 16                     | .86              | 12.5              | .80              | 11.8 |
| 17                     | .86              | 12.5              | .78              | 11.3 |
| 18                     | .79              | 11.4              | .76              | 10.9 |
| 19                     | .66              | 9.0               | .72              | 10.1 |
| 20                     | .53              | 6.6               | .51              | 5.9  |
| 21                     | .65              | 8.5               | .63              | 8.3  |
| 22                     | .90              | 13.1              | .83              | 12.5 |
| 23                     | .91              | 13.3              | .84              | 12.8 |
| 24                     | 1.00             | 15.6              | .95              | 16.4 |
| 25                     | 1.02             | 16.0              | .99              | 17.7 |
| 26                     | 1.00             | 15.6              | .95              | 16.4 |
| 27                     | 1.00             | 15.6              | 1.00             | 18.1 |
| 28                     | .97              | 14.9              | .97              | 17.0 |
| 29                     | .98              | 15.1              | .98              | 17.4 |
| 30                     | .95              | 13.8              | .90              | 14.5 |
| <b>Totals</b>          |                  | <b>415.2</b>      | <b>418.5</b>     |      |
| <b>Adjusted Totals</b> |                  | <b>416.8</b>      | <b>416.7</b>     |      |
| <b>Acres-feet</b>      |                  | <b>826.0</b>      | <b>826.0</b>     |      |

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Total Leakage Losses as figured

between the intakes at Diverting Dam and South Fork and meter readings, a transport of 40 miles.

in Gallons.

| 1914 | Total Supply | Flume      | Losses in High Service | Low Service | Total      |
|------|--------------|------------|------------------------|-------------|------------|
| Jan  | 10,300,000   | 5,020,000  | 5,400,000              | 1,200,000   | 11,620,000 |
| Feb. | 184,000,000  | 16,200,000 | 7,900,000              | 2,250,000   | 26,350,000 |
| Mar. | 305,000,000  | 0          | 18,000,000             | 24,000,000  | 42,000,000 |
|      | 589,300,000  | 21,220,000 | 31,300,000             | 27,450,000  | 79,450,000 |

$\frac{79,979,000}{589,300,000}$  is 13 1/2% for all losses of combined conduit,--

Flume, pipe line etc. aggregating about 40 miles in length.

**Ed Fletcher Papers**

**1870-1955**

**MSS.81**

**Box: 36 Folder: 17**

**Business Records - Reports - Faude, F.M - [Cuyamaca  
Water Company] "Section C - South Fork Feeder"**



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