

# The Lancaster Intelligencer.

Volume XVIII—No. 154

LANCASTER, PA., THURSDAY MARCH 2, 1882.

Price Two Cents.

IRON BITTERS. IRON BITTERS.

## IRON BITTERS!

A TRUE TONIC. SURE APPETISER.

IRON BITTERS are highly recommended for all diseases requiring a certain and efficient tonic; especially

INDIGESTION, DYSPEPSIA, INTERMITTENT FEVERS, WANT OF APETITE, LOSS OF STRENGTH, LACK OF ENERGY, &c.

It enriches the blood, strengthens the muscles, and gives new life to the nerves. It acts like a charm on the digestive organs, removing all dyspeptic symptoms, such as Flatulence, Head, Belching, Heat in the Stomach, Heartburn, &c. The only Iron Preparation that will not disquiet the system or give headache. Sold by all druggists. Write for the A. B. C. Book, 27 pp. of useful and amusing reading—free.

## BROWN CHEMICAL COMPANY,

BALTIMORE, MD.

For Sale at COCHRAN'S DRUG STORE, 137 and 139 North Queen street, Lancaster.

CLOTHING.

Christmas has come and gone. The old year has kissed its "good bye" to '82 and dropped back into the past, taking its place among the most eventful years of history.

The holidays are over. The gift givers have ceased their giving, and the time when any thing and everything would sell so readily has gone.

The "old tody" merchants are preparing to wear out their customers and trousers by sitting themselves down during the months of January, February and March, to await the coming of "SPRING TRADE."

The "WIDE AWAKE" MERCHANT, the "Man-Who-Never-Has-a-Dull-Season," is the man who has learned that trade can be made in the usually dull months by working for it in handling forth some new idea, some attraction which will draw the people, and accordingly keep the trade a "booming" and give his sleep neighbors something to talk about and worry over.

Can any person be so obstinately blind as not to see that the "EVELEBY MERCHANT" is the one who REDUCES HIS GOODS TO COST in the dull season rather than store them away for the next season, whether his neighbor likes it or not, and such a store is being sought after by the warring thousands of Lancaster city and county's purchasers.

AND NOW WE HAVE OUR STORE ILLUMINATED BY THE ELECTRIC LIGHT by which every tag and color can be seen as well by night as by day.

I therefore call your attention that every garment has been MARKED DOWN TO COST FOR THE NEXT THIRTY DAYS, whereby you will be enabled to buy an OVERCOAT OR SUIT OF CLOTHES AT A VERY LOW PRICE.

Having still a good assortment on hand to select from, My "Custom Made Department" is filled with the choicest Woolsens the market affords. A perfect fit always guaranteed.

## AL ROSENSTEIN,

THE PIONEER OF MODERATE PRICES.

NO. 37 NORTH QUEEN STREET. Next door to Shultz & Bro.'s Hat Store.

HOUSE FURNISHING GOODS. PLINN & WILLSON.

HAVE JUST RECEIVED ANOTHER INVOICE OF

## AUCION GOODS.

WHICH THEY ARE SELLING MUCH BELOW THEIR VALUE.

Tinware, Wood and Willow-ware, Table Cutlery, Spoons, Buckets 10 cts., Brooms, Floor Oil Cloth 25 cts.

DON'T FAIL TO CALL AND GET BARGAINS.

## FLINN & WILLSON,

Lancaster, Pa.

PLUMBER'S SUPPLIES. JOHN L. ARNOLD.

## PATENT COLD-CASE HEATERS,

BEST PORTABLE IN USE.

## SLATE ROOFER AND ROOFS REPAIRED.

PLUMBING AND GAS FITTING.

Stop and Valves for Water, Gas and Steam.

JOHN L. ARNOLD.

No. 11, 13 & 15 EAST ORANGE STREET, LANCASTER, PA.

DRY GOODS. MUSICAL INSTRUMENTS.

J. P. SWARR. DEALER IN

## Dry Goods, Notions, Etc.,

No. 50 NORTH QUEEN ST., LANCASTER, PA.

Do not deceive when buying RUBANS or DRESSES (GOODS, with borders, at 12 cents. See that you get Pacifics, as they are much better and stiffer than the others and can be had at

## JOHN P. SWARR'S,

No. 50 NORTH QUEEN ST., LANCASTER, PA.

## FAHNESTOCK.

LUPIN'S BLACK CASHMERE, Jet and Blueblack.

LUPIN'S BLACK CASHMERE, Jet and Blueblack.

LUPIN'S BLACK CASHMERE, Jet and Blueblack.

Best Make Imported BLACK HENRIETTA CLOTH, \$1.00.

BLACK HENRIETTA CLOTH, \$1.25.

BLACK HENRIETTA CLOTH, \$1.50.

BLACK SILKS, BLACK SILKS.

From 50c. up to \$2.50 per yard.

BLACK SATINS, 75c., 85c., \$1.00 and \$1.25.

COLORED SILKS, COLORED SILKS.

For Trimming and Dresses, 35¢ to \$1. cheap.

Our store is stocked full of

## HOUSEFURNISHING DRY GOODS,

All standard best makes, At the Lowest Prices.

FEATHERS, FEATHERS. FEATHERS, FEATHERS.

Best Steam Cured.

CARPETS FROM AUCTION, CARPETS FROM AUCTION.

SOLD BY DRUGGISTS AT 25 Cents per Pint Bottle.

## FAHNESTOCK,

PROSPECT BREWERY, PHILADELPHIA. LANCASTER DEPOT.—GEO. A. KIEHL.

## Lancaster Intelligencer.

THURSDAY EVENING, MARCH 2, 1882.

### THE WATER WORKS.

SUPERINTENDENT KITCH'S REPORT.

AN EXHAUSTIVE AND INTERESTING DOCUMENT.

THE CONDITION AND NEEDS OF OUR WATER SYSTEM.

Some Facts that Merit Thoughtful Consideration.

Following is the annual report of Superintendent of the Water Works Davis Kitch. It was prepared and intended for presentation at last night's meeting of council, but owing to sickness in the family of Superintendent Kitch he was detained at his residence and not able to be present at the meeting. It has, however, been placed on file in the mayor's office, where it can be seen at any time, and will be formally presented to council at the adjourned meeting, to be held on Friday evening, the 10th:

To the Honorable the Select and Common Council of the City of Lancaster:

GENTLEMEN: I have the honor to submit to your honorable bodies the annual report of the water department for the year ending February 28, 1882, in accordance with the resolution of January 1, 1879, providing that an annual report shall be made by the heads of the several city departments on the last day of February each year.

I assumed the duties of superintendent of the water works for a second term on April 4, 1881. In this report I present to you a statement of the operations of the water department for the past year, the present condition of the different pumping engines, works, reservoirs, forcing and distributing mains, valves, stops and fire-plugs, together with tables, showing the amount of water forced into the reservoirs each month of the year, and other facts of general interest. I also present for your consideration the wants of the department.

Complaints of Lack of Water.

The water department fails to keep pace with the rapid growth of the city. The day of appeal was April 21st, and while the committee was in session on that day, there were many complaints from citizens living on the high grounds of the Fifth, Sixth, Seventh, Eighth and Ninth wards that they did not receive an adequate supply of water. On that day the height of water in the western reservoir was 14 feet 6 inches, and in the eastern reservoir 13 feet 6 inches.

The Eastern Reservoir.

The eastern reservoir which was repaired in the summer of 1880 has shown no sign of leakage since, although in constant use and taxed to its greatest capacity.

Low Water.

In the months of June, July, August, September, October and November, the water being low in the creek, the Worthington duplex pump, although taxed to its utmost capacity to keep up the supply, lost during the business portion of the day from one to two inches per hour, and I was compelled to run the duplex pumping engine 23 or 24 hours, and sometimes day and night continuously, before the water in the reservoir was forced to the point where the signal sounded, signifying that the reservoir was up to a height consistent with the safety of the tanks. The water was so low at times that the engine could not get a sufficient supply of water from the feed pipes, and I was compelled to have a force of laborers to dig out the race and fill the water in from the dam to fill the wells from which the engine gets its supply of water.

Water Pumping Power.

The Geylin pump was operated during the year 3,646 hours; making in that time 2,848,880 revolutions, and pumping 51,180,840 gallons of water.

The Bickelino pump No. 1 was operated 6,468 hours; making 8,537,760 revolutions, and pumping 170,753,200 gallons of water.

The Bickelino pump No. 2 was operated 5,972 hours, making 6,449,760 revolutions and pumping 167,093,760 gallons of water.

The total number of gallons of water pumped by water power was 359,638,960 at a cost of \$1.81 per million gallons delivered into the reservoirs.

Steam Pumping Power.

The Worthington high service engine was operated during the year 40 hours, making 105,600 revolutions and pumping into the reservoir 844,800 gallons of water.

The Worthington duplex engine operated during the year 5,978 hours, making 21,293,160 revolutions and pumping into the reservoirs 798,492,500 gallons of water.

The amount of coal used was 3,072,230 pounds and the cost of the same \$4,600.08 making cost 77 cents per ton. Including pay of assistant engineer and fireman, oil, packing, etc., the cost was \$7.53 per million gallons.

The following table shows in detail the working of the several pumps during the year:

Name of Pump	No. of Hours	No. of Revolutions	Gallons Pumped
GEYLIN PUMP	3,646	2,848,880	51,180,840
BICKELINO PUMP NO. 1	6,468	8,537,760	170,753,200
BICKELINO PUMP NO. 2	5,972	6,449,760	167,093,760
GEYLIN PUMP	40	105,600	844,800
GEYLIN PUMP	5,978	21,293,160	798,492,500
TOTAL	21,104	29,235,360	1,188,165,100

During the year 1881-82, the water in the eastern reservoir was kept at a uniform height of 13 feet 6 inches. The height of water in the western reservoir varied from 14 feet 6 inches to 16 feet, the average height being about 15 feet 6 inches.

The Worthington Engines &c.

The Worthington engines are in first-class condition. They needed no repairs during the year. The water pumps are in fair condition, but will need some slight repairs during the dry season.

The late freshets have damaged the arches over the tail race, at the works, but the necessary repairs can be made at a small expense. A short time ago I was compelled to take out one of the 20-inch pipes on East Orange street, it having broken. The breakage occurred on account of bad material in the pipe. The only inconvenience was to parties having to do without water for a few hours.

Connections Needed.

I would renew my recommendation that connections be made at the points designated in my last annual report (our water pipes cross each other, but are not connected) and for the same reason then urged, viz: That when a heavy draw is made in summer time on the reservoir, all will not come from a single main.

Flange Pipes Recommended.

During the year a 12 inch flange pipe was laid over the Shippen street bridge. It gives to the residents of the Sixth ward an additional supply of water. They could be still further benefited if flange pipes were laid over the Duke and Line street bridges, and I would therefore recommend council to provide for the same in the estimates for the ensuing fiscal year.

Stops or Valves Needed.

I would again urge upon council the necessity of having stops or valves inserted in the main supplying the most populous portions of the city, so that when a break occurs, whole sections of the city would not be deprived of water. There are now sections of from one to four squares that have no valves or stops. If the stops or valves are inserted few will be inconvenienced, where now hundreds are.

Improvements.

During the year a telephone line was run, connecting the water works with the station house and mayor's office. This I found to be a very great convenience. If anything is out of order at the works, I

## THE NOBLE "306."

A Stawart Editorial Defender.

Lancaster Daily Examiner.

If there had not been the "306" in the Chicago convention, there never would have been a "President Garfield."

It is all very well to sneer at the "306," but when the battle is to be won "the charge of the heavy brigade" is found to be irresistible.

The Buffalo Courier says the reason why the "306" never made out of bronze is that it was not gold; that too many Half-breeds would have been clamoring for it. That is about the size of the Half-breeds in the "306 of the wood."

The "306" never quail when under fire, nor are they disheartened with defeat. They left Chicago with flying banners, and in the campaign of last fall were always the first on the enemy's ramparts. They deserve a medal for the bravery of two battles.

## The Call System.

Rules and Regulations for the Government of the Fire Department of the City of Lancaster.

Chief Engineer.

RULE 1. The chief engineer shall have entire command of the fire department at fires and alarms of fires, and the grounds round the same; direct his firemen and assistants how to dispose of the respective companies, and shall direct the efforts of the department until the fire shall be extinguished, or the department shall be dismissed by his orders. He shall have charge of all the apparatus belonging to or used by the department; and shall see that it is kept at all times in good order and ready for service, and shall for that purpose visit at least once in each day every engine house and place where any fire apparatus is kept or stored, and examine carefully the condition of the apparatus, horses and all property of the department, and the condition of the houses as to order and cleanliness. He shall have supervision of the person or persons who may be employed to clean the apparatus, supplies, tools, fixtures and furniture used or deposited therein, and shall see that all materials provided for the department are properly and economically used.

No tools or other city property shall at any time be lent or taken from the houses or other places where they are kept without his permission or an order from the fire department committee. He must appear on the fire ground with regulation badge or equipment.

RULE 2. It shall be the duty of foremen of companies to see to the apparatus entrusted to their care and the several buildings in which the same is deposited, and all articles in or belonging to the same, are kept neat and clean and in order, and ready for use. They shall also preserve order and discipline at all times in their respective companies, and enforce a strict compliance with the rules and regulations of the department and the orders of the chief engineer. They shall promptly report all delinquencies on the part of employees or members of the respective companies to the chief engineer. They shall keep accurate record of the attendance of the members of their companies at fires as well as all absence from or omission or neglect of duty on their part, and an account of all property entrusted to their care, in a book provided for that purpose, which record shall be open to the inspection of the fire department committee and chief engineer. He shall be held responsible for the conduct of his men while on the fire ground, and will be required to report in writing to the chief engineer any dereliction of duty or violation of the rules by the members. They shall also visit the houses at least once in every twenty-four hours.

Engineers of Steam works.

RULE 3. The engineers of steamers shall have control of their respective engines, subject to the orders of the chief engineer, keep the same in good order and repair and report any damages to the chief engineer. They shall make all necessary repairs as far as the tools and other facilities will enable them.

Drivers.

RULE 4. Drivers of fire apparatus shall have the care and charge of the horses driven by them, groom and feed them carefully, subject to the orders of the chief engineer; give their horses the necessary exercise, keep the engines, houses, stables, apparatus and all other property of the department in and about the buildings in a neat and clean condition and perform such other duties as may be directed by the chief engineer or the foreman of the respective companies. They shall also light the fire in the engines when starting to a fire and shall, as far as possible, acquaint themselves with the running or operating a steam fire engine. They shall sleep in the engine houses at night and not absent themselves therefrom at any time except when on duty or by permission of the chief engineer.

Hosemen.

RULE 5. The hosemen shall have charge and handling of the hose and pipes at fires, subject to the orders of the foreman or other superior officers; he shall assist in bringing the apparatus to, locating the same at, and returning the same from a fire; see that the hose is kept clean and dry, and perform all other duties prescribed by their position.

RULE 6. The neglect of any duty prescribed by the ordinance reorganizing the fire department and regulating the same, or by these rules, by any officer or member of the department, except a member of the department shall be subject to a fine not exceeding five dollars, suspension or expulsion from the department as may be ordered by the committee on fire department, providing, however, that no officer or member shall be expelled except upon the approval of not less than a majority of the elected members of both branches of council.

RULE 7. For absence at fires without leave the fines shall be as follows, viz: Chief engineer \$5, engineer of steamers \$4, foreman \$3, drivers \$5, hosemen \$1.

RULE 8. Any member absenting himself from three successive fires may be dismissed from the department; provided, however, that the committee on fire department may excuse any member from the payment of any fine for good and sufficient cause. All fines imposed shall be deducted from the monthly pay due each member.

RULE 9. Officers and members, when elected, shall be assigned to and serve in one certain company; but when in active service at fires shall perform duty in any company directed by the chief engineer.

RULE 10. Application for membership in the department shall be made by writing to the fire department committee, and shall contain:

1st. The full name of applicant.

2d. His age.

3d. His occupation, and where employed.

4th. His place of residence.

5th. The number of and position of the company to which he desires to be assigned.

RULE 11. Each officer and member of the department shall wear the following badge, viz:

The chief engineer—Chief E. L. F. D.

Engineer of steamer—E. L. F. D.

Foreman—Foreman No. 1, 2, 3, &c.

Fireman—Fireman.

Hoseman—Hoseman.

RULE 12. All officers and members of the department shall conduct themselves in a courteous and decorous manner towards each other, and especially abstain from using any rough or ungentlemanly language to any member or other person while on duty.

RULE 13. The buildings of the department shall not be let or used for any political meetings; and no persons shall be allowed to congregate in or about the same, except members of the department; and it shall be the duty of the chief engineer to see that the rule is strictly obeyed.

RULE 14. The chief engineer and the committee on fire department shall establish the necessary rules for calling the requisite number of companies into service at fires.

RULE 15. Any person striking a false

## Pipe Extension.

During the past year pipe has been laid in the following streets, which appears in detail in the following table:

STREETS.	1 in.	6 in.	12 in.
North Line	425	425	425
Park Avenue	425	425	425
West New	176	176	176
Concord Alley	176	176	176
West Walnut	275	275	275
South Prince	275	275	275
West Poplar	425	425	425
Low Lane	275	275	275
West Marion	275	275	275
Highgate	321	321	321
West King Street at Highgate Engine House	1,807	1,807	1,807
Highgate	631	631	631
Union	1,807	1,807	1,807
Love Lane	734	734	734
South Duke	36	36	36
North Mary	62	62	62
South Christian	62	62	62
Total	3,817	3,817	3,817

The total cost of pipe, lead, etc., and labor for laying was \$4,500, or about 61 cents per foot.

During the year 18 stop-valves were put in, making 306 now in the city. During the same period 17 fire hydrants were put in, making a total in the city of 365.

Our Water Mains.

The following lengths and sizes comprise the water mains of the city of Lancaster:

Length	Size
1,800 feet	3 inch pipe
90,958 "	4 "
35,357 "	6 "
12,702 "	10 "
10,818 "	12 "
3,400 "	20 "
5,000 "	24 "

Making a total of 161,310 feet, or a fraction over 303 miles.

New Ferrules.

During the year 195 1/2 inch, one 1-inch and one 1 1/4 inch ferrules were inserted, being 41 more ferrules than were inserted the year previous. There were more new ferrules in that year than ever before.

The Water Rent in Detail.

The following is a synopsis of the duplicate for the year 1881: 771 one-story houses, 2,455 two-story houses, 508 three-story houses, 27 four-story houses, or a total of 3,701 houses; pave washes, without hydrants, 38; private bath tubs, 757; water closets, 883; public water closets, 73; public baths, 24; public urinals, 26; private urinals, 25; hotels, 45; restaurants, 61; steam engines (from 5 to 500 horse power), 91; bakeries, 41; private stables, 23; hotel stables, 17; liveries, 3; exchange stables, 3; horses, 280; cars, 83; denturists, 15; barber shops, 25; fountains, 16; photographic galleries, 5; liquor stores, 11; printing offices, 12; gardeners, 10; dye houses, 3; slaughter houses, 2; carrying shops, 1; carriage houses, 5; laundries, 1; foundries, 4; stock yards, 3; agricultural park, 1; gas works, 1; mineral water establishments, 2; street sprinklers, 4.

The Reservoirs.

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## REMARKS OF WATER POWER PUMPS FOR THE YEAR ENDING FEBRUARY 28, 1882.

Name of Pump	No. of Hours	No. of Revolutions
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