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**Customers of this Bank**  
are always satisfied customers, because we endeavor to treat all with equal courtesy and attention. To be  
**Accommodating and Conservative**  
is a combination that we have found to be not only possible, but profitable as well. We can work for your interests and our own at the same time.  
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RED CLOUD, NEB.  
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S. R. Florance.

**Burlington Chief Engineer Makes Report on Water.**

Some time since F. T. Darrow, the Burlington chief engineer, was here and made a careful examination of our water supply and its possible extension. In the following letter he reports as follows:  
LINCOLN, Neb., Feb. 10, 1911.  
Messrs. J. S. Gilham, C. B. Hale, and Rich, Red Cloud, Neb.—Dear sirs: In regard to the water proposition at Red Cloud which I looked over in company with you.

Since that time I have had some additional tests made of the water from the creek and from the south well. These show as follows:

	Maurer Spring	South Well	Creek
Total hardness	9.8	34.4	19.2
Sulphate	0.0	1.3	0.2
Sodium Carbonate	2.2	0.0	
Alkali salts	5.2	7.5	5.8
Increasing rating	Very good	Fair	Good
Foaming rating	Very good	Good	Very good

From this you will note that the Maurer spring is greatly to be desired over the other waters for locomotive and roundhouse purposes.  
In regard to the use of vitrified pipe for supply line, as I suggested, I have inquired from the mayor of Hobart, Okl., who advises that they have a three-mile pipe line, but says it is not under pressure.

It seems to me that a light wrought iron, spiral riveted, and protected with asphalt or tar coating, would be a desirable supply line.

The estimate made by Mr. Rich for the cost of the pipe line of vitrified tile, consisting of 3500 feet of eight-inch tile and 3000 feet of six-inch tile appears to be about correct, although it seems to me about \$500 additional

should be added to his figures on ditching and back filling.

Figuring, however, on light weight cast iron pipe, which would be an entirely safe proposition in every respect, would show as follows:  
5000 ft 8-inch cast iron pipe, laid, at 90c..... \$ 4500  
5000 ft 6-inch cast iron pipe, laid, at 66c..... 3300  
Basin at head works..... 750  
Engineering..... 200  
Incidentals..... 500  
Springs and right of way..... 1100

Total..... \$11350

It is suggested, also, that if the pipe should be laid it might be well to bear in mind that there is some question about the durability of asphalt in filling joints, its life under water being sometimes given as ten years. The use of pitch instead is suggested.

It has been suggested, also, that water might be turned into the little basin which has been excavated near the creek north and a little west of the pumping station and let the water from that point seep into the present tile drain. It does not appear that this would be permanently effective, as the present tile line apparently must be clogged up somewhat at the joints, as the amount of water furnished by it is very small.

As I understand it, about 120,000 gallons per day may be counted on at the big spring, the analysis of which shows it to be first class, and by putting in the pipe line suggested there is no question whatever of an adequate supply, and the saving mentioned in the Chief of Oct. 20, due to having water come to the pumps 35 ft head, is well worthy of saving. Although his method is a little greater in first cost, the supply is sure and permanent and can be counted on at all seasons. Besides this there is still the value remaining in the land itself around the springs.

I would be glad to hear from you what conclusion is reached on this subject. Yours truly,

F. T. DARROW.

For the sake of comparison we reprint estimate of cost as given by Superintendent Rich in the Oct. 20 issue of the Chief:

Acting upon our own advice of last week we again took the trouble to have a second test made of the Maurer springs in order to see if there was any change in the flow. This time there were members of the council and others present to see the test made. These figures will be found in the estimate as given by Superintendent Rich. The water is unquestionably there and those who have observed the springs for the last thirty years years that as far as can be told by the eye the flow has always remained constant. Here is the estimate as given by Superintendent Rich:

ESTIMATE OF COST	
Protecting tree spring.....	\$ 400.00
Protecting fenced spring.....	800.00
4650 ft 8 in tile f.o.b. Red Cloud	800.00
4650 ft 6 in tile f.o.b. Red Cloud	350.00
Distributing pipe.....	65.00
Ditching and refilling.....	560.00
Laying and cementing.....	650.00
Engineering.....	200.00
Incidentals.....	500.00
Total.....	\$4200.00
Purchase price of ten acres of land.....	1000.00
Total.....	\$5200.00

POWER VALUE	
Surveyed head.....	38 deg
Effective head, allowing for friction in pipe.....	38 deg
Effective pressure in pounds.....	14.7
Total average head against which pumps should operate in feet.....	104
Resulting static pressure at power house in pounds.....	45
Percentage spring pressure.....	32.5
Present consumption coal per day approximately, pounds.....	2000
Price per ton.....	\$ 3.25
Saving per day using springs.....	\$ 1.60

The first general observation which we wish to make is that our superintendent has been verified by a competent engineer. We might as well accept him now as authority and abide

HELP HELP



We need some money QUICK. To get it we are making some extra special prices on every watch in our stock and until February 25th we will sell any watch in our stock at wholesale cost. This is the greatest chance you have ever had to get a watch at such money prices. Our stock just now is full and complete but the prices we are making will soon clean it out.

From this date we do only a cash business, selling nothing on time and in order to make the change we must have money at once and this is the best way we know to get it, hence your chance to own a watch at what it cost us.

Don't delay as the watch you want may be gone and these prices apply only to stock on hand.

**Newhouse Bros.**  
**E. H. NEWHOUSE, Prop.**  
C. B. & Q. Watch Inspectors. Jewelers and Optometrists.

HELP HELP

by what he says. The difference in cost between the two estimates is the difference between tile and iron pipes. We ourselves do not know whether it would pay to use the tile and save the difference or use the iron and pay the difference. Our judgment would be to leave the matter to Mr. Rich. This is a question of fact and can be verified if necessary. An invitation has been extended to the makers of tile and we are confident that they would be willing to make us a visit and let us know what their claims are.  
So far as we know this is the first chemical test ever made of the water which we are using, and this test shows that the spring water is not only far better than the well water for engine purposes, but it is far more wholesome. The test shows that the more the water filters thru the land the less fit it is for drinking and cooking purposes. In hardness the well water is considerably more than twice that of the spring, while it also contains more alkali and sulphate. No better water could be asked for than this spring water.

The supply is ample, the water is pure, the cost is known why should we hesitate? However, if there is any question as to the tile or iron we suggest that we secure a representative of the tile makers to come here and give us information at some public meet-

ing. More good can come of a public meeting where all can hear and can ask questions than will result from proceeding in any other manner. It seems to us that this water question is now as simple as a, b, c, and there should be no doubts or hesitations but this one issue should be rapidly pushed to a successful conclusion.

**Skating Rink Rules**

Evenings—Hours 7 to 10, lights out at 10:30.  
Afternoons—2 to 5 p. m.  
Prices—10 cents in and 15 cents to skate.  
Saturday forenoons for children under 13 years of age 9 to 12 a. m., price 5 cents in and 10 cents to skate.  
Wednesday afternoons, 2 to 5, for ladies only.  
We will not be responsible for any accidents which may occur but will do our best to prevent any.

MANLEY BROS

**For Sale.**

2 mares, 1 black mare, wt. 1450, 6 yrs old, 1 dun mare, wt. 900, 10 years old; 1 mowder almost new; 1 20-inch riding plow almost new; 1 hay rake; 1 disc; 1 riding cultivator; 1 14-inch stirring plow; 1 barrow; 1 breaking plow; 1 automatic hay stacker; 1 sweep; 1 DeLaval separator. Inquire of S. W. Fox

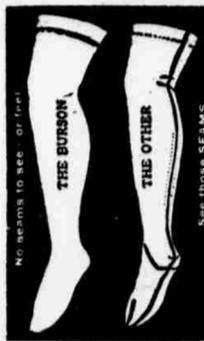
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**Sweaters.**

To clean up our Sweaters will close them out at 20 per cent discount.



**Burson hose at 25c and 50c.**

Try our Burson Mercerized hose and you will say they are the best for the money you ever bought.

Childrens No Mend hose, linen knee, heel and toe at 25 cents. And a good grade at 15 cents.

**This month's Butterick Patterns are 10c and 15c—none higher.**