

LOGAN, THE METROPOLIS OF NORTHERN UTAH.

Property is the only watchword in the beautiful county of Cache, the northernmost county of Utah. This fertile, well watered valley was never more favored than during this splendid year of 1901. True, there have been larger wheat crops in our history, but our people have been favored to such a generous degree by the works of man that they are rejoicing beyond measure at the good times that are upon us.

Briefly speaking, there are 20,000 people in Cache, and not one who is able to work has wanted employment during the past season. It is sometimes a source of gratification to the average Cache valley citizen to see calmly down and estimate the stream of wealth which nature and humanity pour into the laps of that 20,000 persons. One source of income is our three great colleges which distribute, directly and indirectly, \$175,000 per annum, all of which comes from outside of the county. No less than two million bushels of wheat are raised annually, which at 50 cents per bushel, yields a clean million dollars. This year 25,000 tons of sugar beets were produced, adding another \$107,500 to the list. The sugar factory cost \$500,000, with all trucks, equipment, etc., almost half of which was paid out for labor and material in this valley. The new front building of the Agricultural college is well under way, and will cost when completed \$50,000. Three blocks of cement paving have been laid in Logan during the fall at a cost of \$10,000, and a large number of fine business blocks and residences have been erected this season, a list of which appears elsewhere. The creameries of Cache county distribute no less than \$200,000, and the income to our people from cattle, horse, hog, fruit, sheep, vegetable, lumber, brick, lime, and many other kindred interests, is enormous.

MUNICIPAL PROGRESS.

Logan is rapidly putting on metropolitan airs. Four blocks of the very best cement sidewalk were laid during the present autumn, and five blocks are projected in the early spring. The city council has also arranged to begin the erection of a fine new city hall, costing \$7,000, plans for which have already been approved. It is expected that the contract will be let within the next few weeks.

Among the handsome business blocks erected this year are: William Edwards, two-story brick furniture store; John A. Hendrickson, two-story brick store; Campbell & Morrell's two-story brick store; and Zeph Thomas' two-story brick business block.

Logan is as usual well to the fore in musical affairs. We still have the famous Logan tabernacle choir under the direction of Prof. Alex. Lewis, whose divine melodies have delighted the people of Cache for thirty years.

George W. Thatcher is rapidly raising the musical tone of the generation to a high plane, and the gentleman also presented two operas in a vastly creditable manner this year.

MINING INTERESTS.

An effort is at last being made to open up a coal mine in the county. A company has been organized, comprising W. C. Parkinson, I. C. Thoreson,

Robert Baxter, Jr., and others, and the county, several hundred dollars have already been subscribed. It is proposed to mine \$2,500, purchase a boring machine and sink shafts in various parts of the valley until the watered. The croppings near Wellsville, Clarkston and other localities are favorable to the project. John R. Edwards still has a small force of men working all of the property near Paradise, and P. A. Nielson has never lost faith in his claim in Blacksmith Fork canyon. Messrs. Squires of Logan and Hyrum recently made a promising discovery in their mine near the latter place, and Hans Jensen of Hyde Park is pushing operations on his Green canyon property.

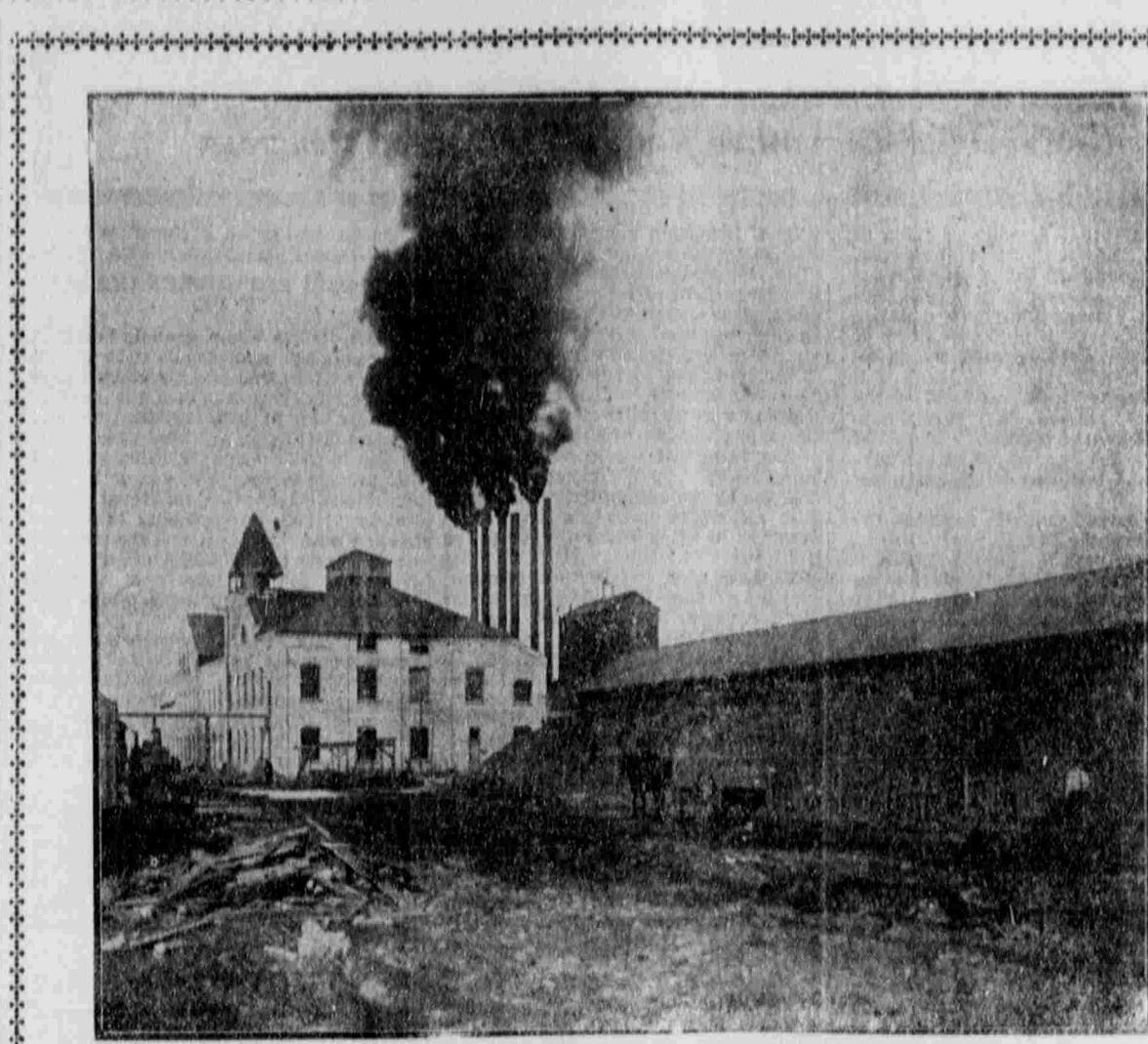
THE HERCULES POWER COMPANY.

In the Hercules company is shown what power can be produced from the streams surrounding Logan. This company has run a flume, built mostly of Oregon pine, and 12,000 feet long, from a point five miles above the city to a cliff from which is obtained an almost perpendicular fall of two hundred and twelve feet. A cross section of the water's actual flow is about 30 feet, and as the mean velocity of the water is 12 feet a second, there is a flow of about 300 second-feet, or 21,500 pounds. This water yet and in actual power transmission, theoretically. But as the flume is not fully taxed to its capacity and the wheels work at about 65 per cent efficiency, the actual power will not exceed 10,000 horsepower. The water is conveyed to twin plants of James Irrell water wheels by two four-foot steel pipes, about four hundred feet long.

The power house is built on the former bed of the Logan river, which was turned from its course that this might be accomplished. The building is of brick and unpretentious except for the river on the other, beautiful lawns and shrubbery are planted. Near the center is a rustic electric fountain which discharges a spray, through the center of which the dairy and fruit interests of the valley shoot a stream sixty feet high. Strong electric lights are turned on the falling water that transform them into a shower of falling gold. Lending across the fall-race is a rustic bridge, crossing which one comes immediately upon a beautiful club house costing in all upwards of \$10,000, which is the home of the station superintendent and employees.

But the plant itself is as interesting scientifically as the grounds are artistically, which is verified in the fact alone that it forms part of the longest transmission line in the world. This transmission line here via Salt Lake City, Mercur and Eureka to Provo, where another plant is built that will run in connection with this one, the two forming one line over two hundred miles long. The plant here is fitted with the most modern General Electric company machinery, and is installed for 3,000 K. W., or about 4,000 horsepower. The generating pressure or voltage is 1,150 volts, which is transformed to 40,000 volts, the line pressure, the highest ever in the west, and is transmitted by a wire used to carry this electricity at such an immense pressure will be of aluminum and one-half inch in diameter, which will carry at a loss of not more than 3 per cent, 40 to 100,000 volts and \$3 gold to the ton. This flume runs directly towards the big vein and it is reasonably certain that where the two intersect high grade ore in commercial quantity will be found. It is estimated that another 60 feet will tap the main vein when it is stamped to the district may be expected, as the surrounding country for miles is heavily mineralized, the country rock, which is mostly blue and dolomite lime, shale, and porphyry, being splattered with lead and copper. This mineral belt, which is situated near the head of Logan canyon, not far from the Idaho and Utah line, offers wonderful opportunities for the practical miner and investor. Timber and water are plentiful.

AMAZON MINING PROPERTY.
At the Amazon Mining company's properties, of which Mr. H. C. Hansen of Logan is the manager, active development has been prosecuted during the entire season and is still going on, and a splendid reputation is being made, much to the encouragement of the



THE LOGAN SUGAR FACTORY.

stockholders and credit to the untiring efforts of its promoters, who are confident they have the making of a great copper mine. In driving the tunnel towards the main vein, which is a true fissure twenty feet wide at its outcrop, a small cross fissure has been encountered, which carries ore of the highest grade, to 75 per cent copper, 40 to 100,000 silver and \$3 gold to the ton. This fissure runs directly towards the big vein and it is reasonably certain that where the two intersect high grade ore in commercial quantity will be found. It is estimated that another 60 feet will tap the main vein when it is stamped to the district may be expected, as the surrounding country for miles is heavily mineralized, the country rock, which is mostly blue and dolomite lime, shale, and porphyry, being splattered with lead and copper. This mineral belt, which is situated near the head of Logan canyon, not far from the Idaho and Utah line, offers wonderful opportunities for the practical miner and investor. Timber and water are plentiful.

CREAMERIES.
The creameries of Cache county are among its greatest financial resources.

There are nine of them as follows:
One each at Wellsville, Millville, Logan and Hyde Park, owned by Lorenzo Hanson.
The Farmers' union at Wellsville, William Wyatt, manager.
The McDermid creamery at Paradise, Samuel McDermid, manager.
The Cache Valley Dairy company, Richmond, Alma Merrill, manager.
The Union at Richmond, C. Z. Harris, manager.
The Smithfield, Abram Smith, manager.

The four owned by Mr. Hanson utilize 65,000 pounds of milk daily, which means the production of either 2,300 pounds of butter or 5,000 pounds of cheese daily. The other creameries of the county will show about the same individual yield. In connection with these institutions an extensive business is done in hops, as much of the refuse of the factories makes first-class pig-feed. The butter and cheese produced is of the highest grade and commands high prices the year through.

KNITTING FACTORIES.
Logan has two large knitting factories, owned respectively by John A.

Hendrickson and Cardon & Ballard. They employ in the neighborhood of a hundred persons, and their products are sold in almost every state in the West. They are a vast resource to the city, and are rapidly extending their field of trade.

NURSERY, ETC.
Logan also has one of the largest nurseries of the intermountain region, owned by John R. Cardon. He has several tracts of land on which are growing a wilderness of trees and shrubs, which find a ready market in many states.

BUILDING OPERATIONS.
Following are the more important building permits issued in Logan during the present year.

Agricultural college, one large front building, one small rear building, 45,000
Agricultural college, two barns, 12,000
Joseph Newbold, brick warehouse, 200
Robert Lafont, 6 room brick, 1,400
A. A. Benson, room frame, 1,500
Zeph Thomas, 22 room brick, 35,000
Josephine Frank, one room brick, 200
P. O. Hanson, two room brick, 1,600
J. A. Hendrickson, four room brick, 2,800
Wm. Edwards, six room brick, 4,000

Total \$102,400

GOOD BUSINESS YEAR.

Taken altogether, the people of Logan have had an extremely gratifying business year. With our soil yielding every agricultural product of the temperate zone, with the facilities we have for raising stock, sheep and horses, with the educational advantages which exist in our midst, there is much cause for congratulation. There was never a more resolute outlook than is presented to us at the present time.

THE LOGAN SUGAR FACTORY.
One of the finest and up-to-date sugar factories in the United States is the one just established at Logan, Utah. It sprang up as if by magic, almost in a day, and yet from top to bottom it is composed of the most substantial material, and the most modern and latest improved machinery. In July the excavating began, and on November 19, the wheels began to turn. The opening was delayed because of the failure to secure steel for the shafts, but nevertheless every effort was made to push the great structure to completion, and amazingly rapid progress was made whenever the supply of material was adequate.

At the head of this great institution stands Hon. David Eccles of Ogden, who owns 46 per cent of the capital stock of \$500,000. Hon. C. W. Nibley, of Logan, holds \$50,000 in stock, and others are heavily interested are Hon. George W. Thatcher, Apostle M. W. Merrill, President W. C. Parkinson, Bishop W. H. Lewis, C. G. Hyde, Judges H. H. Rupp and Thomas D. Dee, Messrs. William Eccles, H. H. Spencer, Henry Hancey, George Stoddard and many others. David Eccles is president of the company, C. W. Nibley, vice president, H. H. Rupp, secretary, and Thomas D. Dee, treasurer.

The buildings are almost entirely of native material. The rock is from the Millville quarries and the brick from a

Providence manufacturer's yard. The factory, outlying buildings, and machinery cost \$500,000. From two to three hundred men were employed in their construction and placing during greater portion of the time during the past four months. A spur from the Oregon Short Line railway connects the installation with the other world. The main sugar factory building is 37,438 feet long and required a million and a quarter brick in building. There are now three beet sheds, each 500 feet long, and they will house 22,000 tons of beets. The warehouse is 145x12 feet, the boiler house 18x48 and the silo 600 feet long. There is also a boarding house containing seventeen rooms, and every convenience and comfort for the factory staff and employees. The installation bears the appearance of a small, but thriving village, and at night the buildings and grounds are lighted by a myriad of electric lights. It is two miles south of Ogden.

An effort was made during the past summer to contract among the farmers of this valley for 25,000 tons of beets. Only about 25,000 tons were produced, and as the factory was delayed, this amount will be amply sufficient for the season's run. The capacity of the plant is from 75 to 100 tons per day of twenty-four hours, and 150 to 200 tons in shifts of 75 each are required to operate the machinery. The beets on hand and yet to be delivered will keep the plant in motion until February 1st. They average about ten per cent sugar, thus making the total output of the factory for the present season, 2,500 tons of sugar, or 5,000,000 pounds. The sugar is about the highest grade of excellence and commands a ready sale among local dealers. Orders have been received from many points in the intermountain region. The sum of \$50,000 is being paid out for beets, and a ready sale to employees during November, and \$100,000 will be disbursed for the same purposes during December. The soil of Cache valley is proven to be well adapted to the growing of sugar beets, and the tubers averaging all the way from ten to thirty tons per acre. With experience, it is believed the farmers can produce an average of from fifteen to forty tons per acre. The contract price for beets is \$1.25 per ton.

An extra effort will be made to induce the farmers of the valley to raise sugar beets next season. The factory is so constructed that by an expenditure of \$100,000, its capacity could be doubled. It would thus be able to grind 50,000 tons in a season, and if the outlook is good next year for that amount of beets, the additional machinery will be placed in motion.

The factory is a great boon to the farming communities of Cache valley, as it distributes vast sums to their inhabitants. In this way it creates and increases prosperity to the people, the benefit of which is felt by every resident. It is a vast credit to the enterprising gentlemen who installed it, and Messrs. Eccles and Nibley, its promoters, are to be highly commended for the untiring energy and great confidence which have characterized their actions in this matter. It is a monument to their business sagacity, and forms one more link in the chain of sugar factories which is rapidly placing those gentlemen among the greatest sugar producers of the land.

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THE TOWN OF RAYMOND.

Beauties and Advantages of the New Town in Canada Laid Out by Jesse Knight.

Special Correspondence.

Raymond, Alberta, Canada is located on the St. Mary's River railway in Southern Alberta, Canada. The town is named after Uncle Jesse Knight's oldest son, "Ray," as he is familiarly known by his many friends.

Raymond is surrounded by about 100,000 acres of very choice farming land. Jesse Knight was the founder of the town, which is laid out on a liberal scale, the plat containing nine square miles. Reservations dedicated to public use by Mr. Knight and the Canadian Northwest Irrigation company have been made of town lots for cemetery, schools, a theater, market place, an agricultural college, hay market, town hall, library, Y. M. M. I. A., Y. L. M. I. A. and Relief Society, besides a public park of 40 acres; all are laid out beautifully, as well as Church grounds occupying two whole blocks.

Arrangements are now being made to erect a large roller flouring mill and grain elevator in Raymond on the line of the St. Mary's River railway and Mr. Knight has arranged for a nursery of fruit and shade trees that will cover 30 acres of ground.

A commodious school house is now completed, and is heated by hot air. Mr. Knight having donated the means for its erection. The building will be used temporarily for church purposes as well.

The town has a good hotel, a large store, lumber yard, meat market, blacksmith shop and at present has about thirty residences.

Raymond will be made a common railway point with Leathbridge for all points east and west.

Raymond is supplied with water for culinary purposes piped from a pure spring at an expense of upwards of \$10,000. More extended water works are being constructed.

The land in this district is well adapted to the cultivation of grains and roots in fact all kinds of vegetables seem to flourish in an astonishing manner. The yield of grain has been phenomenal, averaging not less than 30 bushels to the acre on newly turned sod land and at times a yield as high as 70 bushels of wheat to the acre has been realized. About 3,600 acres of this desirable land has been plowed by Jesse Knight and Sons, ready to plant grain the coming season and the sugar beets in 1902. The sugar beets have been tested and proven a decided success as the following results from the Utah Sugar company will show.

Utah Sugar Company,
General Manager's Office, Lehi, Utah,
Nov. 16, 1901.

Mr. C. A. McGrath, Leathbridge, Alberta, Canada:

Dear Sir—The following is a statement of the polarization of the beets sent us, some of which arrived in rather poor condition, being coated with a

heavy mold, nevertheless the contents were not impaired, as the tabulation will show, the most of them being perfectly rich. The purity should not run lower than 80 per cent, but where such purities go below 80 per cent, it simply proves that the beets have been dried en route.

| Number. | Average Wt. | Brix. |
|---------|-------------|-------|
| 1 | 10.2 | 21.6 |
| 2 | 10.2 | 23.2 |
| 3 | 12.6 | 24.9 |
| 4 | 14.2 | 24.9 |
| 5 | 14.4 | 21.6 |
| 6 | 13.2 | 19.9 |
| 7 | 22.0 | 26.2 |
| 8 | 4.3 | 27.0 |
| 9 | 12.4 | 28.2 |
| 10 | 12.5 | 27.0 |
| 11 | 14.6 | 28.3 |
| 12 | 9.9 | 29.1 |

(Signed)

IRRIGATED LANDS.

The irrigable lands consist of 100,000 acres of level prairie lying below the main canal and principal laterals around the town of Raymond.

The old adage and advice, not to put all the eggs in one basket, applies to farming in Canada as well as elsewhere, and the farmer who not only raises wheat, but grows other grains, and has around him his herds of cattle, hogs, sheep and poultry, is as near the achievement of success as it is possible to get. Horses and cattle thrive remarkably well on the prairie farms of western Canada, and in proportion to the number kept there is probably more high-class stock there than in any other part of America. Some most valuable stallions are to be found there, very many of which are direct importations from Europe. Cattle in increasing numbers are to be met with all over the prairie. Almost every class of fine-bred cattle is to be seen, among which may be mentioned Shorthorns, Galloways, Herefords, Jerseys and Holsteins. The export of beef cattle is very large, but owing to the demand in the mining districts of British Columbia and the Yukon there is a splendid home market.

WATER RATES.
Water will be supplied the first two years in such quantities as a settler may require at the rate of \$1 per acre per annum—the settler must then decide how much water he desires to secure permanently, and a water right agreement will be issued to him accordingly. Usually it is not necessary to get water from Canada, although irrigate grain crops in Canada, although in dry seasons grain crops are improved by the application of irrigation water.

The yield on this newly plowed prairie sod has been astonishing. Potatoes growing like eggs in a nest under the tough buffalo grass sod.

CATTLEMAN'S PARADISE.
The grass covers the whole country, making it a veritable "cattleman's paradise," while all through the hills are natural lakes where stock may obtain water; more fat stock can be seen in this region than in any part of the western states or territories. Large herds of cattle can be run at an expense not to exceed 50 cents a head per annum; cattle and sheep run at a head per year and keep as fat as if grain fed. Upwards of 20,000 head of beef

cattle are sold out of southern Alberta each year.

The Canadian laws are as liberal as any in the world. Aliens have equal rights with citizens in acquiring and holding property, and citizenship is not pressed on any man.

Several well known stockmen of Salt Lake City and Provo, Utah, own from 5,000 to 100,000 acres and successfully take care of from 1,000 to 8,000 head of cattle and from 3,000 to 50,000 head of sheep in charge of responsible men whom the owners visit once or twice each year.

CLIMATE.
The climate in southern Alberta may be said without fear of contradiction to be the finest and mildest in southwestern Canada, and indeed in all of Canada. The winter is very similar to the favored parts of Mon-

tana. It rises in Montana at the eastern base of the Rocky mountains, and flowing northward into Alberta, it turns and runs eastward about 100 miles (never reaching a greater distance than ten miles north of the international boundary), and re-enters Montana and becomes one of the feeders of the Missouri river.

The Milk River Ridge is a low range of hills lying