THE COBALT MINES.

The World's Richest Silver Deposits Found in the Heart of the Canadian Forests.

How the Pure Silver Crops Out of the Rocks-It is Quarried and Shipped Away in Bags-A Lake Underlined With Silver-Shall it be Drained or Tunneled? -- Government Timber Lands and a Rush for the Ore-What Cobalt Silver is-How the Mines Were Discovered And How Fortunes Are Being Made in Them.

(Special Correspondence of the Deserol News of Frank (f. Car enter.)

OBALT. New Ontario.-Three years ago the land about Cobult would not have sold for 10 cents an acre. Today some of it would bring \$160 a square inch. There is one tract of 40 acres within a stone's throw of where I am writing that you could not buy for \$1,000,000 in cash, and all about here are other 40-acre tracts which their owners estimate at from hundreds of thousands to millions of dollars. Nevertheless, the land lies in the heart of the wildest woods on this continent. It is rocky and swampy, and it would take a quarter section of

t to feed a goat. Its value lies in the enormous silver deposits which have been recently discovered. The rock is streaked with great veins of almost pure silver ore. Three or four million dollars' worth of this ore has already been shipped, and carloads of it are now on the way and carloads of it are now on the way to New York, which are worth \$25,000 or \$30,000 a car. A carload of the best picked specimens from a certain mine is said to have sold for \$90,000, another carload for \$50,000 and another for \$40,000.

In the meantime the people here deem themselves rich beyond the dreams of avarice. The land has been staked out for miles in every direction, and hundreds of prospectors with hammers in their hands and great packs on their backs, held there by straps around the forehead, are tramping through the woods looking for new

COBALT, THE MINING TOWN.

But first let me tell you where Co-bait is. Take your map of North America and mark a line from the low-est part of Hudson's Bay to Buffalo. Divide it in half, and the middle point will just about strike the Cobalt mines. They are reached by the Grand Trunk to North Bay, and thence over the new railroad just built by the Ontario government about 100 miles above that point. They are about a night and a day from Montreal over the Canadian Pacific and this railroad, and they are, I judge, just about 300 miles from Tor-

came here from Ottawa via North Bay through woods as wild as any on the North American continent. The road skirts many lakes, swamps, and what is known as muskeg, which is a kind of a cross between a quicksand and an Irish bog. Now one passes a lumber camp, now an Indian village, and now a station where the tourists go off to hunt in the wild woods. We reached Cobalt at 4 in the afternoon and had to rely on the miners for our

KANSAS CITY

UNION PACIFIC

Three Trains Daily

....VIA....

and all Principal Eastern Points

Many hours quicker than any other line

No Change of Cars, "THE OVERLAND

ROUTE" all the way.

Electric-Lighted Trains running every day.

Full information furnished on application to

City Ticket Office

201 Main Street, Salt Lake City.

ings. Log cabins are going up in ovlished, and by next year Cobatt will be double its present size.

Just now many of the nopulation live in tents. The Canadian Bana of Commerce and the Imperial Bank, two of the strongest in Canada, do their basi-ness in 1915, the bankers sleep to at night beside the safes with guns near

their hands.
Cobalt has vet no streets. The bulldings stated on a cord for roads which wind that way and that through the stumps. Most of the houses are of pine boards with roofs of tar fe on with big-headed tacks. Force walls are covered with this black roof ing material, so that the place looks like a collection of shacks of black

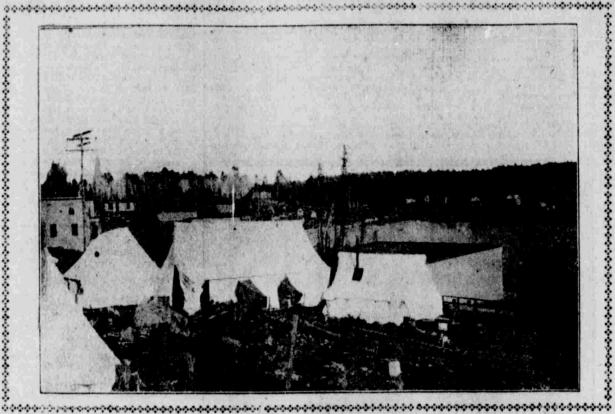
tiful lake so narrow that you can cross it in a cance in a few minutes. The if it lake so narrow that you can cross it in a cance in a few minutes. The mining properties are all around the lake, and they extend back into the woods. A large part of the population still lives in tents. Some of the tents are not more than four feet wide and five feet high. They are merely for sleeping. Cobait has perhaps a dozen stores, and strange to say, it has dozen stores, and, strange to say, it has no saloons. It is a dry town. No liquor is allowed to be sold, and no gambling or other wicked houses per-mitted. I have seen one or two drunk-en men, but altogetær the wild row-dylsm of the new mining camps of our west is absent.

THE SILVER STREETS OF CO-BALT.

I have visited the chief silver re gions of the world, but nowhere have I seen silver which crops out on the top of the ground as it does here at Cobalt. The whole region seems to be one vast rock covered with a thin layer of earth, upon which trees and grass grow. The surface of the rock is irregular. It rises and fails, with water in the hollows, and here and there at the rock expose out on lake. In places the rock crops out on the top of the gound, and in this rock the top of the gound, and in this rock a silver vein may sometimes be seen. These veins run for hundreds of feet across the country, and everywhere they show up on the surface. In the Timmons mine, for instance, the earth has been stripped off to the width of a narrow pavement for a distance of 1,000 feet. The rock has been ground smooth by glaciers. When cleaned it looks much like a flagged sidewalk. Running through it in a winding way is a vein of almost pure silver, so rich that you can see the metal shine as though the rock was plated with it. You can rub the vein with your feet You can rub the vein with your feet The town had only I and polish it. Indeed, it makes me think

CHICAGO

ST. LOUIS



CANADA'S WONDERFUL NEW SILVER CAMP.

Photographed for the Saturday News by Frank G. Carpenter-Largest Tent in Picture Shows Bank of Commerce. KONTOCONO CONTOCONO CONTOCONO DE LA CONTOCONO CONTOCONO

melted silver spoons mixed with a is here and that there seems to be vast little sand poured down in the crevices of the rock. I walked over this sil ... of sacks, each holding about a half-street for hundreds of feet, scouring bushel of ore which is exceedingly rich, the precious metal with my shoes as

BIG SILVER NUGGETS.

This is some of the richest of the Cobalt ore so far discovered. Nuggets of silver which are 80 and 90 per cent pure have been taken out of the Timmons mine, and some of the nuggets weigh 300 and 400 pounds each. I saw chunks of silver and rock the size of a paving brick which I could not lift. Indeed, much of the ore makes me think of the almost pure copper nuggets which one finds in the Lake Suof the rock. I walked over this silver are not regular in width nor go they run even throughout. Here and there branch velns jut out from the main one like the veins of a leaf, and the ore has everywhere soaked into the adjoining rocks.

LIKE A QUARRY.

So far the work here is more like stone quarrying than mining. The vein with the rock on both sides of it bagged up in sacks. The country about is cut up by long trenches from 10 to 20 feet deep and five or more feet wide, which have been blasted and cut out of the rock to get the ore. The sides of the hills are quarried where the vein breaks out, the veins being followed in this way for long distances.

So for the country about digging out quantities of ore within ten feet of the banks of the lake, and the veins there are so plainly marked that the refuse is carried out in wheelbarrows and dumped on the shores.

Tunnels will probably be made under the bed of the lake to get out the ore. Such mining is not impossible. is blasted out and the best of the ore bagged up in sacks. The country about

has been the case in the Tretheway mine and in some of the Earle properties owned in part by the Standard Oil company. The deepest mine so far sunk is the Timmons mine, to which I have referred. In this a shaft has been put down beside one of the veins to a depth of 90 feet, and the vein is found to be wider and richer as it goes down. This mine has already shipped about 200 cars of ore in bags, the out-

about 200 cars of ore in bags, the output being worth at the least \$500,000.

Mr. Joseph C. Houston, the manager of the O'Brien mine, tells me he believes the ore to be a primary rather than a secondary formation, and that it will grow richer as the excavation goes down. Maj. Morrison of the Ottawa Citizen, who has mining properties here, has the same belief as to richness in regard to depth. He considers the camp one of the richest mineral fields of the world. When he came here last spring he published a statement that there was from \$25,000,000 ment that there was from \$25,000,000 to \$50,000,000 worth of silver practically in sight. He now thinks that his estinate might have been trebled and still been under the truth.

THE EXTENT OF THE MINES. As to the value of the mines I make no prediction. I know that the silver

bushel of ore which is exceedingly rich, and some of it almost pure silver. I have examined the veins, and have have examined the veins, and have found some that are almost a foot wide, and so rich in silver that I could see it shining out of the rocks. But how much there is of it or how long it will last I do not pretend to say. The geologists may be right in that it will peter out after a hundred feet or so, and the miners may be right in that there are great wide veins in solid masses of the precious metal far down. From what can be seen on the surface there are undoubtedly millions of dollars' worth of sliver here, and the lars' worth of silver here, and the

At present there are about twenty mines working. Some are owned by Buffalo people, some by New York parties, and more by Canadians. The field as far as defined is about three miles square, with the very richest mines within a radius of two miles. It embraces Lake Cobalt, and there has been a proposition to drain the lake in order to mine the veins that run under it. This has not been permitted by the government. There are now men

So far no one knows how deep down the silver veins go. The geologists say that the silver will lessen in extent as it descends, and it is claimed that this has been the case in the Tratheway. Bay of Nagasaki, Japan, and a vast quantity of coal is mined under the Pa-cific off the southern coast of Chile. I have been in both mines and have rid-den for miles through the Chilean tun-

nels on the electric cars used for get-ting out the coal away down there un-der the sea. Frospecting is now going on far out-side this three-mile radius, and some mineral is being discovered. Silver mixed with cobalt has been found 20

> NOTICE TO PROPERTY **OWNERS AND RANCHERS**

The Salt Lake Nursery have The Salt Lake Nursery have hundreds of thousands of fine healthy fruit trees of all best kinds, also ornamental trees, all true to name. State Street Murray cars pass grounds. Visitors always welcome. Planting time is here. Call or write. Belighbone 1270-y. camp is springing up to the northward. Indeed, there is no telling what min-erals may not be found in this region, which seems to be a part of the great mineral belt running around Lake Superior and extending on northward toward Hudson's Bay. There is a great deal of iron on the Canadian side of Lake Superior, and some of our richest mines of iron and copper are found on the southern side of that lake. A lit-tle more than 100 miles from Cobalt lies Sudbury, which contains the richest nickel deposits of the whole world, and the miners tell me that minerals exist all the way north to James Bay, Prospecting is now just beginning in this region, and there is no telling what may

A RUSH FOR SILVER.

Speaking of the extent of the mining field at Cobalt a lively rush will take place here about a year from now. According to the laws of Canada, when timber lands have been leased to lum-bermen for the getting out of logs, the lumberment are charged so much a lumbermen are charged so much a thousand feet, and no one has any right to prospect or mine upon such lands until the leases have expired. There is a very large tract of timber adjoining the mining territory at Co-balt. This is said to be full of silver. Notwithstanding the law, prospectors are moving about over it now. They have discovered veins richer, it is said. than any of those about Cobalt lake. I know of some miners who went through these woods a Sunday or so ago, and each brought back \$20 or \$30 worth of silver nuggets. The lease on this timber land will expire next August. It will then be thrown open to the public, and the first man who can stake out his mine will get it. How the government will keep the miners back until the gun is fired announc-ing the opening is a problem difficult to settle. Said one man last night:

"Suppose I had been prospecting in these woods, and knew where there was a million-dollar property, do you think I would stand alone on that line and take my chances in the rush. Not a bit of it! If there was a million at stake, I would hire a gang of a hundred or so to go with me, and would arm them with clubs and revolvers, and you may bet your life we would get our stakes in first."

However this may be, the land will be opened next August; and the rush, while not so great as that of Oklahoma, may be somewhat like it, and it will undoubtedly be for much bigger

THE COBALT-SILVER ORE.

This cobalt-silver ore is a comparaively new thing in nature. Cobalt and silver are frequently found together, but nowhere in such quantities as here. Cobalt is a mineral somewhat like nickel in its properties. It is used to make paints and pigments, and is generally known as cobalt blue. It forms the color for all of the fine;

blue china. The metal is also valuable for toughening steel, and for this rea-son it can never fall below the value of nickel, which is now worth 30 or 40 cents a pound. It now retails for \$2.50 a pound, and its value in connection with the silver here is estimated at 60 cents per pound. So far the ore here is mined only for the silver, and its price is based upon the silver it centains.

The cobalt can be plainly seen in the ore when the rock is exposed to the weather. It is steel gray originally, but it then turns rose pink, and where it is found in the shape of a powder it looks exactly like rouge. When heated it turns a beautiful blue. There is some arsenic and other chemicals nilxed with this cobalt-silver ore, and the ore as a whole is such that it has to be sent to New Jersey for special treatment.

The cost is enormous, and so far only high grade ore has been shipped. There is some talk of building a smelter here, and it may be that the Ontario government, which has undertaken the building of railroads, may put up a reduction plant for these ores. I understand that the nickel trust, which has large smelters at Cop-per Cliff, may add to their machinery some for the reduction of cobalt-silver. If this is done or a government smeltinstituted the low-grade ore lying outside the rich veins can be smelted and the property will be enormously ore valuable

THE COST OF MINING.

The miners here claim that the cost of getting out this ore is about the lowest known. It can be taken from the mines for 8 per cent of the value of the product, an outlay of \$2,000 bringing forth \$25,000 or \$30,000 worth of ore. So far it does not pay to ship anything that will yield less than \$200 per ton, and the most of the shipments

per ton, and the most of the snipments are much richer.

Speaking of ore values, one of the proprietors of the Glendenning mine said to me today: "I came here three or four months ago with a gang of men and discovered a property. We have been working the mine from then until new and have just shipped our first now, and have just shipped our first car of ore, which will bring us at least \$30,000. Our total expenses all told have been \$2,700, so that we are more than \$27,000 to the good, and have just egun to ship.

HOW THE MINES WERE DIS-COVERED.

This cobalt-silver field was discovered bout two years ago, but the mines have been kept, as far as possible, a secret. This was for two reasons; one secret. This was for two reasons; one was that new prospects might be made by the present holders, and the other, and chief one was to blind the eyes of the Ontario government and thus circumvent a movement proposed for demand-

ment on all ore mined. The mining laws at present are very liberal, but it a royalty should be paid on the value

laws at present are very liberal, but it a royalty should be paid on the value of the silver taken out the state would have enormous receipts therefrom.

Indeed, the Ontaric provincial government would seem to have a special right to a part of the profit of the cobalt mines, for it was the government that discovered the property. In building the railroad from North bay the rocks above Cobalt lake, and a silver vein was cut, showing the existence of the precious metal. Shortly after this a French blacksmith named Larces stubbed his toe upon a piece of rock near this cutting, and upon picking it up saw the white metal shining out of the blue stone. He conferred with his friends and sent it down to Toronto to be assayed. The report was that it was very rich in silver. friends and sent it down to Toronto to be assayed. The report was that it was very rich in silver. Larose thereupon filed a mining claim upon the property where the Timmons mine now is, and he sold the first half of his property to the Timmons corporation for \$300. Later on he disposed of the balance to the same parties, receiving for it \$27,000, which seemed a fortune to him. It was also a fortune to the purchasers for they have already sold more than a half million dollars' worth of ore, and I am told that their mine is undoubtedly worth more than a million dollars. edly worth more than a million del-

lars today. FRANK G. CARPENTER.

A Cancer Book. How to care for cancer. How to over, come the pain. How to overcome its development. How to diet the patient. All the emergencies are fully given in a book published for Dr. Benj. F. Bye, Indianapolis, Ind. Sent free to those afflicted.

BELLE PHOTO SUPPLY CO. Developing, Finishing. 21 E. Third So. THE SIGN OF

THE INDIAN.

The Midland Route between Utah and The Midland Route between Utah and the east is by far the most scenic route during any season of the year. The service is superior and equipment used is the perfection of modern car builders. Be sure and ask for your tickets via the Colorado Midland and get the best. Ticket office 77 west Second South. Salt Lake City. Write us for rates and illustrated literature. L. H. Harding, general agent. general agent.

Goods at your own price. I. X. L. Furniture Co. Removal sale.

On the tables of all first class cates and homes-Vienna Bakery Bread.

Rock Island T'S A FAG

RUCKY MUUNTAIN LIMITED

IS THE ONLY

TWO NIGHT TRAIN.

Colorado to Boston, New York, Baltimore, Philadelphia, Pittsburg and Washington.

You Travel with the COVERNMENT MAIL on This Train.

SLEEPING CAR RESERVATIONS ALL THE WAY. For Full Information call on or address

Contract ors, Brick

and Stone

Work a

S pecialty

N. L. DREW, Cen'l Agt., 10 800 17th Street, Denver.

E. DRAKE, Dist. Pass. Agt. C. A. BIBLE, Trav. Pass. Agt., 100 West SecondSouth Street, Salt Lake Oity.

Representative Concerns

Ashton Brothers.

Whose Business Build Salt Lake

Architect and Superintendent.

REFERENCES:

Residence of Hon. Thos. Kearns. Residence of Hon. J. D. Wood. St. Mary's Catholic Cathedral, Holy Cross Hospital. Orpheum Building. Orpheum Theater, etc.

FIRE PROOF CONCRETE CONSTRUCTION.

Ornamental Art Stone,

Hollow Blocks, Plastic Decoration Foundations and Walls, Sidewalks and Floors, Entire Buildings.

OFFICE: 41 MARKET STREET. I. O. O. F. Building SALT LAKE CITY.

Western Art Stone Co. | Central Planing Mill And Stair Works.

> WE ARE making a specialty of stairs of all kinds. Estimates gladly furnished to all parts of the country. Get our prices before placing

your order for mill work Cor. 3rd West & 1st North Sts. Both phones 361

Ind. 'Phone 2581.

Electric Construction In All Its Branches.

Lighting and power plants for mills, nines, factories and public buildings a pecialty. Write or call and let us give you our prices. Wiring of buildings also large line of electric chandeliers.

CENERATORS AND MOTORS.

MELDRUM & GUNN. 304 S. West Temple Street. Salt Lake City,

PLUMBING HEATING VENTILATING

Leading Contractors. 137 E Second South

Will furnish Plans, Specifications and Estimates Free of Charge.

Reoms 301-303 NEWS BUILDING, Salt Lake City, Utah.

James P. Erskine. N. Edw. Lijenberg ERSKINE & LILJENBERG

Successors to J. A. Headlund & Co., 523 and 524 Dooly Building. Salt Lake City, Utah. Ind. 'Phone No. 843. Bell No. 843-k.

Architects.

We have designed some of the leading buildings of this section churches, schools, public institu-

SALT LAKE PRESSED STONE COMPANY. J. M. WILFLEY, Manage

Asper, Noall & Co., LUMBIR DEALERS AND

BUILDING CONTRACTORS. Estimates Furnished Promptly Office, Yard and Mill, 151 and 157 Westorth Temple Street, Ind. 'Phone 570.

Sash Doors and Mill Work Walker & Wright CUT STONE CONTRACTORS,

All kinds of Cut Stone for Building and Cemetery Work. Office and Mill Corner 3d S. and 6th W. Utah Ind. Tel. 3055. Bell Tel. 1777-z

Elias Morris & Sons Co.

For Beautiful Wood Mantels, Floor and Wall Tiles, Grates, etc.

CALL US Up.

Both Phones 387. Salt Lake City.

NELSON

OFFICE BANK AND STORE FIXTURES.

Fine Cabinet Work, Wood Turning Stair and Porch Work.

ARCH PIPE DESIGNS.

Our Phones: Ind 1424. Bell 1424-k.

221 West South Temple Salt Lake City.

Salt Lake Building

Manufaturing 6

LUMBER DEALERS All Kinds of Mill Work

ncorporated 1884. Telephone 345.

Terms Cash. Office, Lumber Yard and Mill, 30 to 40 N. Second West Street.

McConaughy-McCartney

"THE TWO MACKS."

UMBER

VE SELL DOG S. WINDOWS, MOULD-INGS AND SHINGLES, FLINTKOTE ROOFING. Bell and Independent 'Phones 227.

648 SOUTH STATE STREET SALT LAKE CITY, UTAH.

'arker Lumber Co SALT LAKE CITY

Wholesale Dealers in Doors, Windows and Lumber, and all Kinds Building Material-Write us for prices. Largest stock, prompt shipments. All kinds Special Mill Work Made

to Order.