THE ADVANCE.

LEGISLATIVE LIBRARY, OCT 8 1894, VICTORIA, B. C.

Vol. I, No. 23. MIDWAY, BRITISH COLUMBIA, WEDNESDAY, OCTOBER 3, 1894. $2.00 per Year.

W. T. SHATFORD & CO.

We always have on hand a well selected stock of the following goods

Groceries, Clothing,
Dry Goods, Gents' Furnishings,
Boots & Shoes, Hardware, Etc., Etc.

ALL AT THE LOWEST CASH PRICES.

W.T.SHATFORD & CO.

Fairview and Vernon,

PENTICTON HOTEL

J. THURBER, Prop.

Pleasantly Situated at the Foot of Okanagan Lake.

Stage Connection with SS. Aberdeen to Fairview, Osoyoos and all points in Was ington.

All arrangements made for providing Guides and Outfits for Hunting Parties.

Good Boating and Fishing. Row Boats and Sail Yachts for Hire.

LEQUIME BROS. & CO.

KELOWNA.

Dry Goods, Groceries, Ready-Made Clothing, Hardware, Etc., Etc.

Orders from the Lower Okanagan will receive prompt attention.

PRICES REASONABLE.

VERNON SAWMILL

SMITH & CLERIN, Props.

Manufacturers of

Sashes, Doors, Mouldings, Turnings, etc., etc.

All kinds of Factory Work kept in stock and made to order.

The best of material used.

Coast cedar worked into furnishings a specialty.

Write for prices and discounts.

All kinds of lumber, laths and shingles kept in stock.

Sawmill on Okanagan Lake, handy to shipment.

Sash and door factory on C. P. Railway at Vernon.

J. E. MATHESON

MERCHANT TAILOR

Stock complete. Extra good quality and value in all the latest patterns for

Suits and Handsome Stripe Trouserings.

Excellent Trimmings, Good Fit and Good Workmanship.

I can give Satisfaction, A Trial Will Convince.

BARNARD AVENUE. VERNON, B. C.

MIDWAY SAW MILL

Rough and Dressed Lumber

Constantly on hand at Reasonable Prices.

LEQUIME & POWERS, Proprietors.

W. T. THOMPSON

General Merchant

DEALER IN

Groceries, Dry Goods, Gents' Furnishings, Hats and Caps

Ready and Custom Made Clothing

Boots and Shoes Drugs and Stationery

Hardware Stores, Tinware,

Agricultural Implements, Miners' Supplies of All Kinds.

A Specialty Made of Direct Importations of Scotch Goods.

W. T. THOMPSON,

FAIRVIEW, B. C.

A. MACDONALD,
BARRISTER,
OFFICE, BARNARD AVENUE.
VERNON, B. C.

COCHRANE & BILLINGS,
BARRISTERS, SOLICITORS AND NOTARIES PUBLIC.
Office: Gilmore's Block, Barnard Avenue,
VERNON, - B. C.
W. M. COCHRANE. - FRED. BILLINGS

B. F. BOYCE,
Physician and Surgeon.
KELOWNA, B. C.

D. L. BECKINGSALE, M. D., C. M.
EDINBURGH UNIVERSITY.
VERNON, B. C.
Formerly on staff of Huntington County, Stockwell Fever and Smallpox, Queen Charlotte's Lying-In, and Victoria Hospitals for Children.

T. E. CROWELL,
TRONSON ST., VERNON,
CONTRACTOR AND BUILDER
Office and Store Fittings a Specialty.

H. RAYMER,
CONTRACTOR and BUILDER,
KELOWNA, B. C.
Plans and Specifications prepared and estimates furnished on all kinds of buildings.

F. H. LATIMER
VERNON, B. C.
DOMINION AND PROVINCIAL
Land Surveyor.
Mem. Amer. Soc. Irrig. Engs.

JOHN A. CORYELL, A. M., B. C. A.
Civil Engineer,
PROVINCIAL LAND SURVEYOR AND DRAUGHTSMAN.
Irrigation Projects, Engineering and Survey Work, with Plans and Estimates, in Any Portion of the Province, Immediately Attended to.
Maps and Plans of any Portion of Osoyoos District,
VERNON, BOUNDARY CREEK, KETTLE RIVER

C. DE B. GREEN,

Assoc. Mem. Can. Soc. C. E.

PROVINCIAL LAND SURVEYOR AND DRAUGHTSMAN.

Surveys of Every Description in the Lower Country from the Similkameen to Grand Prairie Immediately Attended to.

Payment will be received either in Cash, Stock, Produce or Labor.

W. W. GIBBS.

ASSAYER,
BOUNDARY FALLS.
Samples by Mail will receive prompt attention.

FOR SALE

160 Acres of Land. All Meadow.

BETWEEN Sixty and Seventy Acres Cleared and Drained. Six miles from Camp McKinney. One Mile from waggon road.
Apply ADVANCE OFFICE.

R. N. TAYLOR,

THE DRUGGIST

(By Exam.)

Vernon

A Full Line of English, Canadian and American

PATENT MEDICINES,
DRUGS AND CHEMICALS,
FANCY AND MEDICINAL SOAPS,
PERFUMERY, BRUSHES,
And all Requisites for the Toilet and Sick Room

Orders by Mail receive careful Attention and Quick Dispatch.

AGENT FOR
B. LAURENCE'S
Spectacles and Eyeglasses

FAIRVIEW HOTEL

(Next to Mr. Elliot's store.)

JOHN MOFFAT, PROP.

EXCELLENT BOARD
GOOD STABLING

Horses and Buggies for Hire.

W. C. POUND,

TAXIDERMIST.

BIRDS, ANIMALS AND FISH MOUNTED IN APPROPRIATE STYLES.

Native Birds and Heads Kept for Sale.

Orders by mail receive prompt attention. Mounting Heads a Specialty.

VERNON, B. C.

F. B. JACQUES,
Watches, Clocks and Jewelry.
Spectacles and Silverware.
REPAIRING A SPECIALTY.
VERNON, B. C.

W. DALRYMPLE,
General Blacksmith
FAIRVIEW, B. C.
All Kinds of Repairing. Horseshoeing a Specialty.

The Cozy Shaving Parlor
VERNON, B. C.
The Gilmore Block,
Opposite the Post Office.
Ladies' and Children's hair cutting and shampooing a specialty.
E. GOODMURPHY, Prop.

DISTRICT NOTES.

The road from Camp McKinney to Fairview is already being very much used for freighting.

Mr. Andrew J. Miner has received a contract from Mr. E. S. Graham to continue the fifteen foot tunnel on the Texas, Ingram camp, another forty-five feet. It will be four feet wide and six feet in the clear, and finished this winter.

If the S. F. & N. R. R. does not manage to retain its present monopoly of the handling of ores in the mineral belts immediately north of the Boundary line from the Columbia river to the Okanagan slope, it will not be for want of tall rustling. A wagon road is now almost completed up the Sheep creek pass into Rossland, which will reduce the cost of shipping ores from the mines of that section to Northport to two or three dollars, thereby diverting trade from Trail and the Columbia river boats. This road is said to be an excellent one with very easy grades. Not content with this, the company evidently intends to retain its present hold on Boundary creek by the construction of a direct wagon road in the near future from Marcus to the mouth of Curlew creek, in the reserve. This road, when completed, will greatly lessen the cost of exporting ores from the Boundary camps to Marcus. It is calculated that with this road in existence, the ore freight rate from the line to Marcus would not be more than from $12 to $15 per ton—a very material difference to the present rate of $20, and the former rate of $30 to $35. The distance from the mouth of Curlew creek to Marcus is about twenty-five miles. There is already a road from Boundary creek to Curlew creek (about fifteen miles) which is passable except in high water. The divide over which the proposed road would have to pass is not so high as that selected over Boundary mountain. It would, we understand, almost follow the "little mountain" trail which is at present impassable, owing to fallen timber. It would be to the east of the projected and partly constructed State road from Marcus to a point twenty miles up Curlew creek, and has already been surveyed by Engineer Roberts of the S. F. & N. railway. Considering that Curlew creek is generally conceded to be the best part of the reservation, and contains coal deposits, and that the road would pass through what is known to be a mineral belt, the prospects of its being constructed seem certainly very good.

Much More Effective.

The C.P.R. is a monopolist corporation. It possesses the powers pertaining to monopolies, and no surprise should be felt that it should exercise such powers wherever or whenever opportunity may offer. From its own point of view it would foolish if it did otherwise. The people of Canada clothed it in purple and other delights, and they have only themselves to thank if it presumes upon the position to which they exalted it. All that is left them to do now is to realize in the light of past experience that the railway will do nothing for them of its own accord, and that their only remedy against abuse lies in "kicking" until the abuse is remedied."—Province.

This advice is all very fine, but anyone who has had any experience with the C.P.R. must know that common or garden "kicking" has absolutely no effect at all on that corporation. The only effective plan, in our opinion, is to point out to the railway company that they are undoubtedly losing trade and consequently profit by the present system of high freight rates. This is liable to have fifty times the effect of any class of kicking and is no difficult matter to prove as far as this section of the country is concerned.

Sound Common Sense.

The following was a portion of the report of the Grand Jury at the recent assizes at Nelson:

"It is the opinion of the Grand Jury that legislation in regard to the annual assessment on mineral claims should be enacted which should define in a clear unmistakable manner the amount of work to be annually performed, and that there should be a classification of the different kinds of work, so that the locators may not, by a lax interpretation of the act, hold mineral ground on insufficient work, as it is a notorious fact that claims are being held, and the annual assessment sworn to, where one-fourth of the work required has not been performed, thus hindering the development of the country, by parties holding valuable ground, who have no intention of doing anything until others who may be more enterprising develop adjacent claims."

Some Combinations.

A combination of tin and lead makes solder.

A combination of tin and lead makes pewter.

A combination of tin and copper makes gun metal.

A combination of copper and zinc makes bell metal.

A combination of copper and zinc makes Dutch gold.

A combination of lead and antimony makes type metal.

A combination of copper and arsenic makes white copper.

A combination of copper and zinc makes mosaic gold.

A combination of tin and copper makes bronze metal.

A combination of gold and copper makes standard gold.

A combination of tin and copper makes cannon metal.

A combination of silver and copper makes standard silver.

A combination of lead and a little arsenic makes sheet metal.

A combination of tin, antimony, copper and bismuth makes britannic metal.

A combination of copper, nickel and zinc, with sometimes a little iron and tin, makes German silver.

THE MINERAL EXHIBIT,

Principal Mining Properties in S.-E. Yale Represented at the Vernon Show.

The exhibit of ores from Fairview, McKinney and the Boundary Mountain camps which will be on view at the approaching show at Vernon, has not been got together with the idea of booming the southern portion of East Yale—such is utterly unnecessary—but solely with a view to affording the general public an opportunity of becoming better acquainted with the varied mineral resources of the lower Okanagan and Kettle river districts. All kinds of southern country ore has been included, from the free gold quartz, which "any fellow can understand," to the "unknown quantity," from the Summit camp. The exhibit comprises principally gold, silver and copper ores, though lead, zinc and other minerals are represented, and as a rule the specimens carry two or more metals.

No effort has been made to select the richest specimens which could be collected, but rather to obtain representative ore from each claim, and in most cases pieces of the formation in which mineral is to be found in this section.

Some of the specimens have been obtained from bodies of ore of recent discovery, on which comparatively little development work has been done. These have been marked "prospects"—not mines—and all other information as to ownership, name of claim and camp, how developed, etc., has been attached to each set of specimens for the information of parties interested in practical mining. The exhibit naturally represents only a small percentage of the hundreds of mineral locations held in this district, it being impossible to collect from each and every one.

The coal specimens come from three miles east of Midway, Rock creek, and White lake. The former, as may be seen from the samples on view, is a good coking coal.

As Vernon is not a mining centre, it is the desire of the collectors that some at least of the most interesting specimens in the exhibit be sent to the Imperial Institute, England, or at least to the Provincial Museum, Victoria, as an evidence that the mineral wealth of B. C. is diffused over a large area, and it has been offered to the local government for either purpose.

The present state of development which exists on some of the exhibiting claims, has been accomplished by years of toil and perseverence, and the expenditure of a very large sum of money in the aggregate, in many cases by comparatively poor men, and the exhibit, generally speaking, affords ample evidence of the pluck and energy of the pioneer mining men of our own section of the Province. The following are the principal claims represented:

SKYLARK CAMP—
Skylark,
D. A.
Providence,
Elkhorn,
Spotted Horse,
Helen.

GREENWOOD—
Stemwinder,
Ironsides,
Gold Drop,
Rawhide,
Snowshoe,
Brooklyn,

COPPER—
Copper,
Copper Queen,
Enterprise,
King Solomon,

WELLINGTON—
Wellington,
Bland,

DEADWOOD—
Mother Lode,
Sunset,
Buckhorn,

WHITE-ATWOOD—
Number 7,
Mabel (three veins),
Lincoln (two veins),
City of Paris,

SUMMIT—
Emma,
Mountain Rose.

(Continued on third page.)

THE ADVANCE.

STUART & NORRIS.....PROPRIETORS.

Published weekly at Midway, Boundary Creek, B. C.

Subscription Price, $2.00 per annum, payable in advance, either yearly or half-yearly at the option of the subscriber.

Advertising Rates sent on application.

Though the columns of THE ADVANCE are always open for the discussion of matters of public interest and importance, we do not necessarily endorse any of the opinions expressed. Correspondence of a personal nature will not be published.

WEDNESDAY, OCTOBER 3, 1894.

The manner in which the road work is now being carried on is the cause of a good deal of comment, and a few words of explanation may, therefore, not be out of place. It is the intention of those in charge to cut out the right o' way and do some grading, so as to enable the teams to pass over and this as soon as possible. This course is being followed owing to the fact that only a short time remains before it may reasonably be expected that frost may at any time stop the work. Therefore, in the event of an early frost we shall at least possess a good sleigh road for the winter, but if time is given the gangs of men will be brought back over the work thereby making a really good road. It would be well for those who are so free in commenting on the action of the authorities to bear this in mind and have a little patience.

We regret that in our issue of September 19, the following item appeared:

"Mr. R. Ochsner, of the Vernon brewery, is reported to have made an assignment to Messrs. Wulffsohn & Bewicke."

The report in question was quite without foundation as Mr. Ochsner's business is in a highly flourishing condition.

LOWER OKANAGAN NOTES.

(From our own correspondent.)

Messrs. James W. Lowther and Ernest Farquhar of London, England, after visiting at Mr. Bullock-Webster's ranche at Keremeos, left for a month's hunting trip in the Ashnola mountains guided by the veteran hunter, Mr. Wm. Schoonover of Fairview.

Mr. Russell, barrister of Vancouver, has been visiting at Mr. R. L. Cawston's ranche at Keremeos, and went away a walking advertisement of the beauties of the Similkameen valley.

It is probable that Mr. Cawston will set out a considerable acreage of his land in hops before long. This would undoubtedly prove a very paying investment to him, as he has the land which is particularly well adapted to the growth of hops, has abundant water for irrigation purposes, and perfect shelter from the wind, a most important consideration.

Three weary men who were lately seen towing a scow round the shores of Osoyoos lake, told a pitiful tale. They were going south.

The Game Protection associations on the coast are doing valuable work. Can not such a society be formed in this district? It would have far more effect than columns of complaints to the newspapers.

Indians do not usually make make remarks worth repeating, but here is an exception. A well-known Penticton Indian was arrested not very long ago for imbibing too much whisky. On the way to the lock-up he was very communicative to the constable, speaking Chinook. That jargon, however, was not sufficiently expressive for what he wanted to say, so presently he burst out with this in good English:

"I like you; you are a gentleman; Mr. H. was a gentleman; Mr. L. is a gentleman; I'm a Siwash, a d——d Siwash, but then I'm a gentleman!"

Laughter from the constable. Siwash again: "Yes, you bet, that's right," and with a whoop he dug spurs into his horse, and for a while they only touched the high places.

FAIRVIEW NOTES.

(From our own correspondent.)

Wise men do not always come from the east, especially when they allow themselves the pleasure of indulging in a quiet game of poker. So says one of Midway's prominent citizens.

The Strathyre Mining have let another contract to take out ore from the Brown Bear to Messes. Rose & Burns. The same is being hauled and crushed, and if it turns out as good as it looks a very satisfactory return should be the result.

The first location made in the Summit camp was struck by Messrs. Jas. Atwood, E. Lefevre and J. Schofield in September, 1891, and named the Brafogle. The other claims staked off by them were the Comstock, Drumlommond (both side claims) and the Anaconda, an extension of the latter. Mr. Jas. Lynch also secured the Flying Dutchman and Mr. Carmichael of Fairview an extension of the Anaconda, the same season. These claims have since been all relocated and re-named.

Mr. Jas. Wilbur has purchased Mr. Saunders interest in the stage and express business (late Saunders & Keithley) between Midway and Marcus. The new firm will erect a stable at Grand Forks without delay, and the stage will travel over the new Boundary mountain road as soon as completed.

GRAND FORKS HOTEL

KETTLE RIVER, B. C.

Stages to Marcus, Wash., and Midway, B. C.

Every Attention Given to Guests.

J. L. WISEMAN, Prop.

J. KERR. R. D. KERR.

KERR BROS., BUTCHERS,

MIDWAY and BOUNDARY FALLS

Meat delivered at Rock Creek and all the Mining Camps.

H. C. COOPER

MANUFACTURER OF

Harness and Saddlery

VERNON, B. C.

FOR SALE.

FEED, OATS, HAY AND POTATOES.

Will be delivered at Okanagan Falls as soon as new steamer runs on Dog Lake,

J. HUTCHESON, VERNON.

GOLD and SILVER EXTRACTION

The Cassel Gold Extracting Co., Ld.,

(The McArthur-Forrest Process)

Have Experimental Works at VANCOUVER, and are prepared to treat samples of ore from 1 lb. to 2,000 lbs. by the Cyanide Process. No Roasting and no Smelting required.

For Full Particulars apply to the Company's Superintendent,

W. PELLEW HARVEY, F.C.S.,

ASSAY OFFICE,

sr19 2m VANCOUVER, B. C.

CANN & CO.,

BOOKSELLERS, STATIONERS

And Dealers In

MUSICAL INSTRUMENTS,
SEWING MACHINES,
WALLPAPER,
TOBACCOS, ETC., ETC.

Needles for All Makes of Sewing Machines Kept in Stock.

Mail orders from the Lower Country will receive prompt attention.

CANN & CO.,

VERNON, B. C.

MINERAL ACT, 1891.

Certificate of Improvements,

NOTICE.

THE CORNUCOPIA MINERAL CLAIM,

Situate in the Kettle River Mining Division of Yale District, on the Summit between Boundary Creek and Fourth of July Creek, in White's Camp.

TAKE NOTICE that I, William McLean, free miner's certificate No. 5528 B, intend, sixty days from the date hereof, to apply to the Gold Commissioner for a certificate of Improvements, for the purpose of obtaining a Crown grant of the above claim.

And further take notice, that adverse claims must be sent to the Gold Commissioner and action commenced before the issuance of such certificate of improvements.

Dated this 29th day of September, 1894. o3-2m

G. ARTHUR RENDELL,

General Merchant

BOUNDARY FALLS, B. C.

A Full Stock of

DRY GOODS,
GROCERIES,
MINERS' SUPPLIES.

ALL AT THE LOWEST PRICES.

J. W. REED,

JEWELLER and WATCHMAKER

MIDWAY, B. C.

Watches and Clocks Repaired.

o3 2m All Work Warranted.

W. R. MEGAW,

VERNON, B. C.,

General Merchant.

A Carload of Waggons, Binders, Mowers, Rakes and Drills just arrived. Cheap for Cash.

Full Lines of Dry Goods, Groceries, Boots and Shoes, Hardware and Clothing on Hand.

Concord Harness and Stock Saddles Kept in Stock or Made to Order.

Orders Will Receive Prompt Attention

W. R. MEGAW

A. G. FULLER

WINES, LIQUORS AND GROCRIES.

Barnard Avenue, Vernon, B. C.

Midway Livery, Feed and Sale Stables.

GOOD DOUBLE AND SINGLE DRIVING HORSES.

Rigs to Rock Creek, Penticton, Grand Prairie, Marcus and all other points in the Country. Parties desirous of seeing the mines should Give us a Call.

Heavy Teaming Promptly Attended To.

RILEY & DONALD'S

Agricultural Machinery Kept in Stock.

CONKLE & DONALD,

MIDWAY, B. C.

Golden Gate Hotel.

FAIRVIEW, B. C.

F. R. KLINE, Proprietor.

GOOD ACCOMMODATION - - GOOD STABLING

Stopping Place for Stages to Penticton and Oro, Wash.

GENOWAYS & McAVINEY

Wholesale and Retail Dealers in and Growers of

CHOICE NURSERY STOCK.

All Stock Grown Without Irrigation.

All Trees Inspected Before Leaving the Nursery.

SPOKANE FALLS,

P. O. Box 582. Washington.

INGRAM & BUBER

General Teamsters and Freighters,

ROCK CREEK, B. C.

Rates from Penticton to Camp McKinney, Rock Creek, Midway and Boundary Falls, two cents per pound for two tons or under. Marcus to Midway, the same rate. Marcus to Grand Prairie one cent per pound.

Special Rates for Large Orders and Ore Contracts.

VERNON HOTEL

VERNON B. C.

A First-Class House in Every Respect.

Free Bus to all Trains

Sealed Liquors a Specialty

ONLY WHITE HELP EMPLOYED.

HARRY McINTOSH, PROPRIETOR.

ARMSTRONG HOTEL

H. KEYES, Prop.

Good Accommodation,

Best Liquors and Cigars.

First-Class Stabling.

ARMSTRONG, B. C.

Painton's Music Store

—OLD POST OFFICE—

409 Hastings Street, Vancouver.

Pianos and Organs--Easy Terms

Sheet Music, &c. Special attention given to Mail Orders.

Vernon Private College,

VERNON, B. C.

F. ADRIEN MEYER, PRINCIPAL.

SEND FOR PROSPECTUS.

VICTORIA HOTEL

VERNON, B. C.

McAuley & Grant,

PROPRIETORS.

FIRST-CLASS IN EVERY RESPECT.

CHARGES MODERATE

BOUNDARY FALLS HOTEL.

Centrally Located in the Boundary Creek Mining Camps.

BEST OF LIQUORS AND CIGARS.

CHARGES MODERATE.

Mining Men Personally Conducted to Any of the Camps, or Horses Furnished.

THOMAS. J. HARDY, PROP.

ROCK CREEK HOTEL . . .

MOUTH OF ROCK CREEK.

H. Pittendrigh, Mgr.

FIRST-CLASS ACCOMMODATION FOR GUESTS.

GOOD STABLING

Excellent Fishing on Kettle River.

LUM KEE

GENERAL STORE

ROCK CREEK,

Miners' Supplies. Also Chinese Goods.

T. ELLIOT,

General Merchant,

FAIRVIEW, B. C.

Keeps the Largest and Best Assorted Stock of

Groceries, Dry Goods, Boots & Shoes, &c,

any place south of Vernon, and sells on terms to suit the times, Cheapest Place to buy for Cash in the Okanagan Country.

FULL WEIGHT AND MEASURE ASSURED.

BANK OF MONTREAL

CAPITAL (all paid up).....$12,000,000
REST.....6,000,000

SIR DONALD A. SMITH, Pres. HON. GEO. E. DRUMMOND, Vice-Pres
E. S. CLOUSTON, GENERAL MANAGER

SAVINGS BRANCH.

RATE OF INTEREST AT PRESENT 3½ PER CENT.

BULLION AND GOLD DUST HANDLED.

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BRANCHES IN BRITISH COLUMBIA:

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VICTORIA - - - - NELSON

Vernon Branch : G. A. HENDERSON : Manager.

Wulffsohn & Bewicke,

(LIMITED)

BANKERS

Financial, Real Estate, Insurance & General Agts,

BANKERS AND CORRESPONDENTS

FOR

Bank of British Columbia

Agents for Sale of Lots on the Aberdeen AND Lyons Estates

WULFFSOHN & BEWICKE, Ltd.,

DOCK HOUSE, BILLITER STREET, LONDON, ENGLAND,
VANCOUVER, B. C. AND VERNON, B. C.

JOHANN WULFFSOHN, Managing Director.
Vernon Branch, G. A. Hankey, Manager.

The Vernon Livery Feed and Sale Stables.

Having taken over the stables of Gallagher & Stevenson, and thoroughly overhauled and refitted the premises, I am prepared to meet the demands of the public. I have on hand a complete stock of new rigs, (double and single) for public use, and also a good lot of well broken carriage and saddle horses.

Tourists desiring to see the country would do well to call.

Good Single Drivers, Good Double Drivers,
Good Saddle Horses.

Ladies' gentle double and single drivers and saddle horses.

Horses boarded by the week or month (box stalls if desired).
Horses broken to harness, and horses and cattle sold on commission.
Dealer in hay and grain, wholesale and retail.

Corner Of Mission and Tronson Streets

Opposite W. R. Megaw's Store. Post Office Box 137

W. GARDNER, PROPRIETOR.

NOTE.—This stable will be run strictly first-class in every particular. My drivers are all free and gentle disposition, and the most durable stock the market can produce. Special attention to transient trade and to boarders.

All kinds of heavy teaming promptly attended to.

HOP LAND FOR SALE

—AT—

OKANAGAN MISSION, B. C.

First-Class Open Bench Ready for Plough.

PORTION IN CROP

All Under Large Irrigation Ditch From Mission Creek.
Cheapest and Best in the Market.

:-: Also Choice Acre Blocks in Vernon :-:

Address FORBES M. KERBY, C. E.,

OKANAGAN MISSION P. O.

NICHOLLES & RENOUF, L'td

Victoria, B. C.

AGRICULTURAL MACHINERY,

SOLE AGENTS FOR

Brantford Binders and Mowers

THE BEST IN THE MARKET.

A Full Line of Waggons, Trucks, Ploughs, Harrows &c., &c.

WAREHOUSE AT VERNON.

C. F. Costerton, Agent.

RED STAR
FLOUR

Premier
Three Star
Two Star

Equal to any from Pacific to Atlantic.

Manufactured only by
Columbian Flouring Mills Co.,
ENDERBY, B. C

JUST OPENED UP!

J.McNICOL

MIDWAY, B. C.

Large Stock of

GROCERIES,
DRY GOODS,
BOOTS & SHOES
HARDWARE,
MINERS' SUPPLIES.

J. McNICOL.

CONDENSED LOCALS.

Miss Fitch returned to Fort Sherman on Sunday.

Mr. J. Wilbur spent a few days in Midway last week.

Mr. C. F. Costerton, of Vernon, returned north to-day.

Messrs. J. Douglas and J. Atwood were in town on Sunday and went on to Rock creek next day.

Mr. Anderson, secretary of the Agricultural Department, Victoria, after driving through the district on an official trip, left Midway for Vernon on Monday.

Mr. J. W. Nelson left on Sunday for Golden, Wash., where he will stay till the election is over in Okanagan county.

Mr. Geo. Cooke returned on Saturday from Osoyoos, and will shortly commence to open up his new strike, the Victoria, in Smith's camp. Mr. E. Holt has an extension on this claim called the Tellurite.

Mr. J. W. Reed, late of Boundary City, Wash., has opened up in business at Midway, in Mr. J. McNicol's building. Mr. Reid has had a long experience at his trade and deserves the patronage of the southern community.

The races at Midway will take place on the 9th and 10th of this month. A purse of $50 will be offered for each of the three principal events—the mile, half-mile and quarter-mile races. Several matched races have been arranged, and a number of American Indians are expected in from the reservation. A dance will take place on the evening of the 10th in the hall above the store building. Mr. W. Powers is secretary

DISTRICT NOTES.

Assessment has been completed on the Oro.

Mr. J. Boss left last Thursday for Spokane.

The Triune mill at Golden has been crushing small tests of Jessie ore.

A large bear was shot lately by Lum Armstrong near the crossing of Rock creek.

There are still two more pack loads of ore to be shipped from the Providence.

Two four-horse wagon loads of Skylark ore were shipped last week to Tacoma via Marcus.

Most of the Indians on the Colville reservation have finished harvesting a good average crop.

The threshing in Grand Prairie is almost over. The machine used was from the Colville valley.

Mr. J. Schofield is reported to have sold all his interests in the Summit camp to Mr. W. T. Smith.

Mr. R. G. Sidley is about to do assessment work on the Anarchist mineral claim, Camp McKinney.

Wm. Newton and L. Ewing have gone to Rossland, having a contract as ore packers for the O. K. mine.

Mr. Norris was at Fairview last week augmenting his already fine collection of minerals, and Fairview will be neither last nor least in the display of valuable free milling ores at the Vernon exhibition.

The Grand Forks saw mill boiler is being hauled in from Marcus.

The Cariboo lead has been stripped and exposed from the east shaft to the creek and still shows up four feet wide.

The Sunday claim on Rock creek, in which Messrs. McAfee, Davis & Dearborn are interested, is now netting a profit to its owners.

A big English hunting party will be out shortly to hunt Cariboo up the north Fork of Kettle river. Mr. C. Scott McCrae will act as guide.

We offer our congratulations to Mr. J. Oswald Coulthard of Keremeos, who, on the 15th ult., at Blaine, Wash., was united in marriage to Miss Esther Merritt.

Mr. Joe Wallace, whose shoulder was badly hurt by being thrown from his horse in Grand Prairie, is, we are glad to state, recovering from the accident.

Messrs. Madden, Howard & Donohue, on the Vernon claim, near the old White's bar on Rock creek, are taking out good pay—about $5 or $6 per day.

Mr. Fred. Hoffman is running the small flour mill on Fourth of July creek day and night. He intends moving it this winter higher up the creek onto his pre-emption in order to get more water power.

Rossland has three hotels and two more are under construction. It also possesses two stores, butcher's shop, etc., and is fast growing. It is supplied with Grand Prairie beef by Manley & Carraher.

A shipment of fifty-six sacks of St. Lawrence ore was made last Friday by Mr. C. C Sands. It is very high grade gold rock and went via Marcus to Tacoma. A road about two miles long is being cut from the St. Lawrence to connect with that in the reservation.

Mr. G. Boyer, who has the contract for the removal of Mr. Elliott's store, Fairview, from the upper to the lower town, is giving proof of what well-directed energy can do. In about a week the building on its new site will be ready for occupation.

The main leads in Deadwood were first discovered in 1888 by J. Moran and T. McAuley, but no locations were made till '91, when Messrs. W. McCormick, Thompson, Gibbs, East and others staked off the properties they are interested in.

Nearly all the men in the Boundary Mountain gang are miners and personally interested in seeing the road put through. They are making things fly and only about four miles of the road are uncompleted—from Wellington to the New camp.

It is generally regretted that Lord Aberdeen will not be able to open the Vernon show. No one is, however, liable to regret this as much as His Excellency himself, who takes a special personal interest in everything connected with the district.

The last assessment work done on the Maple Leaf, Camp McKinney, consisted in deepening the shaft six feet, putting in new timbers, etc. The working of the Cariboo has drained the Maple Leaf to perfection. There are seventy tons of ore on the dump.

It is generally understood that the Chinamen engaged in placer mining on the several different creeks tributary to Kettle river are now doing well. The amount of placer gold finding its way into the store and hotel keeper's hands is a true indication of the same.

Messrs. J. Hunter, Chelson and Griffin, who had been on an extensive prospecting trip up the main Kettle river, returned to Loomiston last week, taking with them a number of samples of silver ore. They are reported to have made a strike.

The Bridgeport Company are bringing in a sawmill and hoist for the Columbia group on Mineral Hill, near Conconully. They will saw enough lumber for the men's winter quarters and will sink on the Columbia claim this winter. Experimental shipments of the ore (high grade silver) were lately made to Tacoma.

Messrs. Melville & Co.—from eastern Canada—operating what is called the "mineral rod," have been sinking on the old Keystone claim, Camp McKinney—east extension of the Okanagan—for Messrs. Copeland, Haddigan and Curry. A great deal of interest is attached to their work, as it is supposed to test the efficacy of their instrument. No news of their having actually "struck it" has reached this paper.

We are sorry to have to chronicle a second accident this week from Fairview, which occurred at the Brown Bear mine to Mr. Carmichael, who, while engaged in taking out ore from one of the stopes had occasion to stand upon a plank, which gave way under his weight, precipitating him into the tunnel beneath. In alighting he fell upon his side on a saw horse which stood in the way, and although it has not been ascertained if any ribs are broken, yet the bruise and shock to the system generally will cause him to suspend work for some time.

The depth of the iron capping on the Summit camp leads is not known, the greatest depth reached being only fifteen feet. The width of several of the ledges has been proven by surface cross-cutting to be from thirty to forty feet between well-defined walls. The capping consists of magnetic iron and copper sulphurets which carry gold and silver and the general supposition is (as was the case in Trail) that with depth the percentage of iron will decrease and that of copper decrease. Picked specimens of the ore run $18 in gold and as much as 18 per cent. copper.

The Skylark, probably the best known mine on Boundary mountain has fallen back into the possession of the original owners, Messrs. Douglas, Atwood and associates, Mr. H. C. Walters' lease having expired. The Skylark has shipped fifty tons of high grade ore, which was taken out during about four months' actual mining. A large quantity of second grade rock lies on the dump which can now be shipped at a profit, owing to the completion of the new road. There is plety of ore left in the Skylark which will be re-worked, though it is uncertain at present by whom.

CORRESPONDENCE.

To the Editor of THE ADVANCE:

SIR—In a recent issue of your paper, a correspondent did me the honor to reply to the few remarks—by no means a full discussion of the subject—you were good enough to permit me on the question of the future government of British Columbia. It would, probably, be enough to say, that, as the writer's name was "Nemo," so the matter in his letter amounted to "Nihil." He appears to have worked himself into a frenzy, if I rightly interpret something about a monument upon which somebody is requested to mount and observe "sl-l-l-aves-s!!" a la Corporal Bardolph in his most militant mood. That he should not have approached the question in a calm and impassioned manner, is to me the subject of regret, as he might then have presented some convincing arguments to wean me from my treasonable practices, or whatever else he chooses to regard them. Now, sir, the subject has received justice neither at his hands or at mine; and were the people of British Columbia less timid and more public spirited, and could they shake off the lethargy that appears to be last dying bequest and legacy of the "old-time" population, the separation of the Mainland from the Island would ere now have become a practical factor in local politics. Nemo says that it would be the height of folly to cut ourselves off from the city that in the early days we helped to build up, as also from the rich resources of timber, coal, fish and furs, and the great Imperial dock-yard and fortifications. In this statement he brazenly begs the question. In the first place I would ask him, because B. C. enjoys local autonomy, does she thus lose connection with the Imperial depot at Halifax? Following out Nemo's line of argument, we in B. C. should be part and parcel of the Province of Nova Scotia, which is a reductio ad absurdum. Surely Esquimalt as a naval station has the same value for all parts of the Dominion. I should like to know what barrier to trade, intercourse and mutual advantage is caused by a provincial boundary line; there are neither racial antipathies, nor hostile tariffs to be met, with the added advantage of popular control of local affairs. Nemo must undervalue the strength of the Dominion Goverment as a bond of union or he would not have referred with such evident impatience to the prospect of separation from his beloved Island. Again, as to natural resources, I can safely say, and I am sure that in this I am supported by all your readers, that the Mainland possesses as many, if not more, than Vancouver Island. Where on the latter can be found any body of ore corresponding to our great mineral belt throughout the south-east interior? We have stores of fur, of timber on the coast line, of coal in the Selkirks and throughout the interior, while our vast quantities of iron, copper and lead are yet scarcely realized. Our coast fisheries are capable of unlimited development, while to protect the fishermen there are magnificent land-locked harbors—Burrard Inlet and a host of others. Taken one by one there is not a single natural advantage that the Island has over the Mainland. Although I have entered into this discussion, I think I have already made it clear that it is preposterous to suppose that the creation of a new province would in any way create commercial barriers between the two divisions; and rather, I firmly believe that such a revision of the existing state of matters, would promote the growth of both, by putting an end to mutual jealousies, and by diverting public moneys from the aggrandisement of the city of Victoria to their equitable use, the development of the rich mineral and agricultural regions hitherto utterly neglected. While at present the question is not being agitated as a practical political plank, the time is not far distant when the continued indifference of the present Government to interests other than those of their pocket boroughs, will bring upon them the avalanche of public opinion, and it will then surprise Nemo to find how very alone he will stand as an opponent of the establishment of the Province of British Columbia (properly so called) with the City of Vancouver as capital.

MAINLANDER.

THE MINERAL EXHIBIT.

(Concluded from page one.)

CAMP McKINNEY—
Cariboo,
Amelia,
Sailor Boy,
Fontenoy,
Emma,
Maple Leaf,
Eureka.

CAMP FAIRVIEW—
Brown Bear,
Silver Crown,
Morning Star,
Stemwinder,
Western Hill,
Smuggler,
Wide West,
Manitoba,
Joe Dandy.

MYERS' FLAT—
No. 1, No. 2.

The collection is completed by an exhibit of platinum from a property near Granite creek, for which over a quarter of a million dollars was refused some years past.

THE CANADIAN PROVINCES.

British Columbia is the largest of the Provinces and embraces an area of 382,000 square miles.

Prince Edward Island is the smallest—2,000 square miles.

The smallest of the seven is the most densely populated, having a little over 54 people to the square mile, while the largest is the most sparsely peopled, with a little over three square miles to each person.

There is coal in four out of the seven Provinces, Nova Scotia being the greatest producer with an output of about two and a quarter million tons per annum.

British Columbia is the greatest gold producer, the produce of her mines for thirty years having been valued at forty-six and a half million dollars.

Nova Scotia has the most valuable fisheries, her annual catch averaging about seven million dollars in value.

Quebec takes the lead in the supply of timber, her output of saw logs amounting to 5,000,000,000 feet board measure, and of square timber to three and a quarter million cubic feet.

Ontario is the banner cheese Province, the production running up to about eight million dollars a year.

Combined, the whole seven have resources unequally by those of any other country in the world.

WORDS FROM THE SAGES.

For where we love is home, home that our feet may leave but not our hearts.—Jean Ingelow.

Do the duty which lies nearest to you. Every duty which is bidden to wait returns with seven fresh duties at its back. Kingsley.

It is an old proverb that he who aims at the sun, to be sure will not reach it, but his arrow will fly higher than if he aimed at an object on a level with himself.—Hawes.

Every vice and folly has a train of secret and necessary punishment. If we are lazy, we must expect to be poor; if intemperate, to be diseased; if luxurious, to die prematurely.—Varle.

It is the most momentous question a woman is ever called upon to decide—whether the faults of the man she loves are beyond remedy, and will drag her down, or whether she is competent to be his earthly redeemer and lift him to her own level.—O. W. Holmes.

There are people who understand one another at once. When one soul meets another it is not by pass word, nor by hailing sign, nor by mysterious grip that they recognize. The subtlest freemasonry in the world is this freemasonry of the spirit.—Edward Eggleston.

SEVEN STEPS TO HEALTH.

A noted physician says if you want to be healthy and to live to a good old age you must climb up stairs and live at the top. The stairs consist of but seven steps, and you must make a pause on each step and follow his directions:

First Step—Eat wheat, oats, corn, fruits, beef and mutton, plainly cooked, in moderate quantity, and but two meals a day.

Second Step—Breathe good air day and night.

Third Step—Exercise freely in the open air.

Fourth Step—Retire early and rise early.

Fifth Step—Wear flannel next your skin every day in the year, and so dispose your dress that your limbs shall be kept warm. Bathe frequently.

Sixth Step—Live in the sunshine. Let your bedroom be one which receives a flood of light, and spend your days either out in the sunlight or in a room which is well lighted.

Seventh Step—Cultivate a cheerful temper. Seek the society of jolly folks. Don't be afraid to laugh.

Go up this flight of stairs. Live above, Catarrh cannot climb up there.

CYCLING PROVERBS.

Grit makes a man, but mars a bearing.

Neither men nor bicycles steer well with tight heads.

Like a friend in need, the handle-bar is only appreciated when the road is rough.

The world, like a bicycle, would soon come to a stop were it not for the cranks.

Ambition is like a bicycle saddle; though much sat upon, it generally manages to be on top.

Politeness is like a pneumatic tire; there isn't much in it, but it eases many a jolt in the journey of life.

A pleasant disposition, like oil in a bicycle bearing, reduces friction and prevents a world of wear and tear.

Like a link in a bicycle chain, we may not amount to much individually, but collectively we make the wheels go around.

Like balls in a bearing, the lives of many of us must be one continued grind that others may enjoy themselves.

Life is like a bicycle run; some worry, fret and scorch along, and soon reach the end, while others take it easy and enjoy themselves as they go.

PEOPLE ONE READS OF.

Mary Hamilton, an English female fraud of the eighteenth century, married fourteen of her own sex.

The crown princess of Denmark is a royal "highness" by nature as well as by birth—being six feet three inches tall.

Royalties have, as a body, defective eyesight. Princess Maud of Wales is the only royal lady who wears a single eyeglass.

Mrs. Adeline Knapp, who has been for several years race-track reporter for the San Francisco Call, rides man-fashion, in Turkish trousers, a cutaway coat, and a silk hat. She owns a number of fine horses.

It is well known the empress of Austria smokes innumerable cigarettes every day, but she does more then this. In the evening she not only lights a cigar, but she lights one from the other, and, moreover, they are strong.

COMMUNING WITH NATURE.

There are six hundred varieties of cotton.

In Stuttgart there is a rosebush which covers a space of two hundred and thirty square feet.

Out of one tree felled near Shelton, Wash., was taken thirty thousand feet of merchantable lumber.

A larch tree, one hundred and forty feet high, the tallest in the Inverary forest, Scotland, was blown down in one of the recent gales.

The Victoria lily of Guiana has a circular leaf from six to twelve feet in diameter. It is turned up at the edge like a tray and can support, according to its size, from one hundred to three hundred pounds.

SPOKANE FALLS
and
NORTHERN RAILWAY

Nelson & Fort Sheppard Railway

ALL RAIL TO NELSON, B. C.

Only through line to Nelson, Kaslo, Kootenay Lake and Slocan Points.

Through Trains Semi-Weekly.

Daily, except Sunday, between Spokane and Marcus.

7:00 a.m. Lv.....SPOKANE.....Ar. 5:30 p.m.

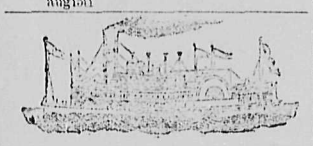
On Wednesdays and Saturdays trains will run through to Nelson, arriving at 5:40 p.m., making close connection with the steamer Nelson for Kaslo and all lake points, arriving at Kaslo at 9:00 p.m. same days. Returning, passengers will leave lake points and Nelson on Wednesdays and Saturdays, arriving at Spokane same day.

Commencing May 2, passengers for Trail Creek, Nakusp, New Denver, Revelstoke and all points on the Canadian Pacific railway, will leave Spokane on Wednesdays and Saturdays at 7 a.m. connecting at Northport with steamer Columbia (same day) at 1 p.m.

Passengers by steamer from above points arrive in Spokane same evening.

Passengers for Kettle River and Boundary Creek connect at Marcus with stage on Mondays, Tuesdays, Thursdays and Fridays.

aug15tf



THE
CANADIAN
PACIFIC
RAILWAY

The Quickest and Cheapest Route to all Points in the East and Pacific Coast.

STEAMER ABERDEEN

leaves Penticton every Tuesday, Thursday and Saturday morning, connecting with trains for East and West.

Before taking any other line write to

H. S. SCADDING,
Agent, Penticton,

for Rates, Time, &c., or to

GEO. M'L. BROWN,
DIST. PASS. AGENT,
ag 15-tf VANCOUVER.

NOTICE.

In the Matter of Richard Thompson, Deceased, Intestate.

The one-eighth (1-8) interest of the above deceased in the "Mother Lode" mineral claim, situate in the Deadwood Camp, in the Kettle River Mining Division, will be sold by tender.

Tenders will be received by the undersigned at his office, Osoyoos, up to and inclusive of the 27th day of October, 1894.

C. A. R. LAMBLY,
21-6 Gold Commissioner.

In the Matter of Richard Thompson, Deceased, Intestate.

NOTICE is hereby given that by virtue of the powers vested in me under section 118 of the "Mineral Act, 1891," and amendments, I will administer and wind up the estate of Richard Thompson, late of Boundary Creek, in the Kettle River Mining Division, Yale District, B. C., free miner, now deceased, intestate, and all persons indebted to the estate of the said deceased are requested to pay the amount of their indebtedness to me, at Osoyoos, forthwith; and all persons having any claim against the estate of the said deceased are hereby requested to forward the same to me at my office, Osoyoos, duly authenticated, on or before the 27th day of October, 1894.

After which date I will proceed to distribute the assets (if any) of the said estate among the parties entitled thereto, having regard only to the claims of which notice shall then have been received.

C. A. R. LAMBLY,
21-3 Gold Commissioner.

County Court Notice.

SITTINGS of the County Court of Yale will be holden as follows:

At Osoyoos on Wednesday, 17th October, 1894;
At Midway on Saturday, 20th October, 1894,
at the hour of eleven o'clock in the forenoon.

By Command,
C. A. R. LAMBLY,
R. C. C.

GOVERNMENT OFFICE, OSOYOOS,
19th July, 1894.

COURTS OF ASSIZE.

Table Showing the Dates and Places of Courts of Assize, Nisi Prius, Oyer and Terminer and General Gaol Delivery for the year 1894.

FALL ASSIZES.

Clinton	Thursday, 20th September
Richfield	Monday, 24th September
Kamloops	Monday, 1st October
Vernon	Monday, 8th October
Lytton	Friday, 12th October
New Westminster	Tuesday, 6th November
Vancouver	Monday, 12th November
Victoria	Tuesday, 20th November
Nanaimo	Tuesday, 27th November

ENDERBY HOTEL
H. W. WRIGHT, PROP.
ENDERBY, B. C.

Livery in Connection.
First-class accommodation for Commercial Travellers.
Hunting and Fishing in abundance through this district.
Pack Horses and Guides furnished to Sportsmen on shortest notice.

GILBERT'S RESORT,
OKANAGAN LANDING.
HUNTING, FISHING, BOATING.
THOROUGHLY COMFORTABLE.
First-class
LIQUORS and CIGARS.

GRAND PRAIRIE
HOTEL
GRAND PRAIRIE, KETTLE RIVER,
Good Stock o
Liquors and Cigars
Good Stabling.
PRICES REASONABLE.
McLAREN BROS., PROPRIETORS.
BLACKSMITH SHOP IN CONNECTION
Stages Leave every Monday and Wednesday for Marcus, Wash.

D. McDUFF,
General Blacksmith
MIDWAY, B. C.
All Kinds of Work Executed to the Satisfaction of Customers.

C. F. COSTERTON
VERNON, B. C.
Agent for
Estates of G. G. Mackay & Co.
Anglo-Columbian Co., Ltd.
Yorkshire Guarantee and Securities Corporation.
Nicholls & Roland, Ltd.
Sun Life Assurance Co. of Canada.
The Royal Insurance Co. of North America.
London & Lancashire Fire Insurance Co.
London Guarantee & Accident Insurance Co.
General Real Estate & Financial Agt.
NOTARY PUBLIC.

A. D. WORGAN.
Portrait & Landscape Photographer
VERNON, B. C.
VIEWS OF THE DISTRICT FOR SALE.

MARTIN BROS.
LEADING HOUSE FOR
Hardware, Stove, Tinware, Paints, Oils and Glass.
Vernon, B. C.

E. G. Sheringham's
STAGE LINE,
Osoyoos, Rock Creek, Boundary Creek and Grand Prairie
Carrying Passengers and Express.
GOING WEST
Leaves Grand Prairie (North Fork, via McLaren's) on Wednesday morning, arriving Osoyoos Thursday evening.
GOING EAST
Leaves Osoyoos Friday morning, arriving at Grand Prairie Saturday evening.

FOR SALE.
Good Waterhous Champion Shingle Machine
Capacity, 20,000 per day.
Self-Feeder, with Jointer and Packer complete. Terms reasonable.
Apply ADVANCE OFFICE or
MARK HILL,
OKANAGAN P. O.

NOTICE.

NOTICE IS HEREBY GIVEN that the undermentioned respective amounts will be paid as bounty for the head of every panther, wolf, or coyote killed in a settled district of the Province, on the certificate of a Justice of the Peace that such animal was killed in a settlement, and that the head was produced to and destroyed by him, namely:—

For each panther, seven dollars and fifty cents ($7.50).

For each wolf two dollars ($2.00).

For each coyote one dollar ($1.00).

By Command,
JAMES BAKER,
Provincial Secretary

Provincial Secretary's Office,
Victoria, August 22nd, 1894.

THE McARTHUR-FORREST PROCESS.

By J. S. McArthur.

(Continued from last week.)

The small amount of water held by the ore then becomes a saturated solution of chlorine, which gradually acts on the gold, so that in the course of one or two days it may be washed out as the soluble chloride by a further amount of water. This weak solution of chloride of gold is run into a tank, a solution of ferrous sulphate added, precipitate of gold allowed to settle for forty-eight hours if possible, and the supernatant solution allowed to flow off. When sufficient gold precipitate has accumulated it it is collected and run into bars. Besides the Plattner form of chlorination which I have described, there are others which vary from Plattner and among themselves in the manner of application of the chlorine—most of them using revolving barrels instead of open vats for the chlorination proper. The best known of these are: the Mear's process, where chlorine is used under its own gaseous pressure; the Newbery-Vautin, where air pressure is used; the Pollok, recently described before this section of the society, where hydraulic pressure is used, and the Thies, where chlorination is done in a barrel without any pressure, as described in this journal, 1889, 1895.

Let us now return to the mine. The deeper we now sink down into the reef we find that while the richness of the ore may remain constant, the proportion of free gold, that is amalgamable gold, becomes smaller and smaller, while the proportion of gold-bearing sulphides becomes greater and greater till we come to the water level; where it often happens that the free gold leaves entirely and becomes wholly refractory, that is, non-amalgamable. The water level is generally regarded as the point where atmospheric and weather influences cease, and that down to that point the rain water has penetrated and gradually washed away the oxidisable base metals, leaving the inert gold in the crevices of the equally inert quartz, whereas the ore found below the water level, not having been subjected to oxidising influences, retains all its metals untouched and unchanged.

An interesting problem now presents itself:—An ore consisting of a complex mixture of silica and the various compounds of iron, copper, lead, zinc, antimony, arsenic and sulphur (for convenience I will include all these compounds under the general term sulphides) and gold in the proportion of ten thousand parts of silica and sulphides to one part of gold, is very much richer than the average auriferous ore, and the question is how can we best separate the one from the ten thousand. Under favorable circumstances the gold and the useful metals may be recovered by smelting, but these favorable circumstances, which are proximity of the gold mine to coal, clay, limestone, and other fluxes, are quite exceptional, as auriferous reefs are generally found in primary formations. As before implied, chlorination is frequently inapplicable—no attempt is ever made to chlorinate gold ores containing an appreciable quantity of lead—and where appreciable is always troublesome and never cheap. When this question presented itself to Dr. Forrest and myself we tried to find some solvent which, unlike chlorine and mercury, would have a stronger affinity for gold than for sulphides. Acting on this principle we drew out a list of all probable or possible solvents fulfilling this condition. This list included cyanides, and we found that these salts solved the problem.

Our experiments were conducted first on a small scale, and on ores of all kinds and from all mines in all parts of the world. The result of these small trials was so satisfactory that we gradually worked from less to more, and in no long time larger quantities were worked, and now the process is in, or on the eve of being put in operation in all quarters of the globe. I have now much pleasure in describing the method of working most generally applicable. The ore is ground to about the fineness of sea sand. If instead of ore we are working tailings from the amalgamation process, these are generally not re-ground, but treated as delivered. The finely-divided material is mixed with a solution of cyanide, say, cyanide of potassium, containing on an average 0.4 per cent of cyanogen as the cyanide of potassium or other alkali or alkaline earth. The ore and solution are stirred together for about six hours, more or less, this being about the average time required to dissolve the gold; in practice the time required is determined by direct experiment. When the gold is known to be dissolved, the pulp is discharged into an ordinary filtering tank, where the filtration may, if necessary, be assisted by suction, and where the ore is washed by water or by the waste cyanide solution from a previous operation. The ore, after treatment with cyanide solution, is unchanged to the eye, is almost nothing but the imperceptible proportion of gold present has been removed. The gold now being in solution the next object is to get it precipitated, and here we encounter a serious difficulty. Gold and cyanogen have such a strong mutual affinity that it is difficult to get any substance that will separate them. The gold cannot be precipitated by any ordinary method, such as the use of ferrous sulphate or oxalic acid; even sulphuretted hydrogen and sulphide of sodium will not precipitate gold from its cyanide solution, though they precipitate silver. On referring to books on electro-gilding, we got no assistance, as the invariable method given for the recovery of gold from cyanide solutions was, evaporate to dryness and fuse the residue. We had noticed, however, by experiment, that zinc precipitated gold very feebly, and tried this in the same way that copper is precipitated from its ordinary solutions by scrap iron, but scrap zinc had no effect; then granulated zinc was tried, with a most imperfect and disappointing result; then heating in presence of scrap and granulated zinc, but this only had the effect of forming urea, and assisting the precipitation very littled indeed. Further, we tried zinc dust, but still there was no success; finally we prepared some zinc in a form like sawdust, porous, and with a large surface of bright metal. On allowing the cyanide of gold solution to trickle through a mass of the zinc, we found that it trickled out gold free, and, better still, we found that the action became more vigorous and pronounced after a portion of the gold had been precipitated on it, doubtless as gold and zinc formed together a more powerful electro-chemical precipitant than zinc by itself. An arrangement of a porous mass of zinc like sponge formed a chemical filter, which at once precipitated and collected the precious metal; indeed, so like an ordinary water purifying device was this zinc filter, that many non-technical visitors formed and held tenaciously to the idea that the gold was in suspension in the cyanide solution, and the zinc was used merely because of its durability. Improvements in detail were made in the direction of increasing the surface and decreasing the weight of the zinc, till now we have it in threads, one pound of which occupies about two gallons measure. The zinc in this form is possessed of enormous chemical activity, of which the strongest and most direct evidence is the fact that it burns in the air like thin shavings of wood. When the gold has been deposited it is necessary to separate it from the excess of zinc present. The filiform structure of the zinc, and the exceedingly fine powder, as which the gold is deposited, render this an easy matter. The filiform mass of zinc with gold powder adhering is vigorously shaken in water, when the gold falls off and the fibrous particles of zinc may be collected in a sieve. The gold settles easily, is collected, and fused directly into bullion.

Having now described the chief points in the process from the technical standpoint, let us look at the purely chemical aspect it presents. Reference has already been made to the fact that a cyanide solution acts on the gold in ores in preference to the sulphides in base metals with which it may be combined or associated; this selective action is the keystone of the whole process. It is known that metallic gold is dissolved by a cyanide; it is also known that sulphides of copper, zinc, and iron, artificially prepared, are readily acted on by a cyanide solution; but we found a very different state of affairs in treating ores where these or similar compounds exist prepared by the hand of nature herself. Nature seems to render the base metallic compounds insoluble, while the gold combined with or contained in them is more easily acted on than the metal itself. This at once raises the question—how does gold exist in base refractory ores, is it combined or free? This question, I admit, I cannot answer satisfactorily to myself. Judging from theoretical considerations only, I think gold should exist almost invariably in the free state, for if we assume that sulphides, pyrites, &c., were formed from aqueous solution, the gold would be deposited in the metallic state. This may be shown by dropping some powdered pyrites into a solution of chloride of gold, when gold will be precipitated as metal; on the other hand, let us assume that the pyritous formations carrying gold were formed by igneous agency, in this case the gold ought to be metallic too, because any sulphide of gold already existing would be decomposed by the high temperature, and, of course, sulphide of gold cannot be formed at a high temperature. It is true that sulphide of gold may combine with an alkaline sulphide and resist decomposition by heat, but such a combination, as a matter fact, does not occur in nature. Telluride of gold and, I think, antimionide of gold are not decomposed by heat, but they occur in small quantities only, and do not affect the general argument. In spite of these theoretical considerations, however, we have strong evidence to show that gold exists in several different states of combination or molecular structure. Let me give one case in illustration. A sample of tailings from the ordinary process of stamping and amalgamation was received, and I think it may safely be assumed that the mercury had attracted some gold from the ore which produced these tailings. We treated the finely ground tailings by alkaline solution of bromine, which extracted a considerable portion of gold, and the bromine treatment was repeated time after time till it ceased to extract gold; then it was treated with a hot solution of ferric bromide, which yielded a further quantity of gold.

(To be continued.)

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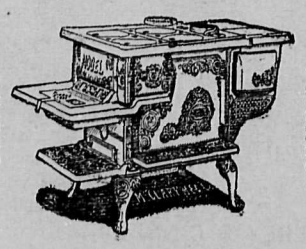

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