

REPORT ON QUARTZ MINES

Wilson Foster Prepares Digest of Work Thus Far Done in Connection With Hard-Rock Mining - Written at Railway Promoters' Request.

During the sojourn of Messrs. Hawley and Heney in Dawson a report was prepared at their request relative to the extent of quartz operations that had been undertaken in the district immediately adjacent to Dawson. The work was done by Wilson Foster who is familiar with the conditions of hard rock mining in the Yukon and who knows the location and extent of work on every claim in the district. This report is as follows:

Dawson, Y. T., Feb. 27th, 1903.
To E. C. Hawkins and George McLoughlin, Dawson, Y. T.

Dear Sirs,—Concerning the quartz properties of the Klondike which have come to my notice and have been investigated by myself while prospecting for more than four years in this camp, I wish to say that I hand you herewith a map showing the principal veins of this district on which I have marked with red ink the location of different groups of quartz claims with which I am familiar.

Dawson City Group.—Concerning this group, would say that it is adjacent to the city of Dawson on the right bank of the Klondike river, covering the entire dome back of the city. This group is owned and controlled by the Dawson City Quartz Mining Company, Limited, a local company. Upon this property are various tunnels from 20 to 50 feet in length; an open drift 106 feet long and several shafts, varying from 10 to 20 feet in depth, from which samples have been taken ranging from the summit 1800 feet above Dawson down to the water's edge of the Klondike river. The assays returned from these samples were as follows: \$2.06, \$2.37, \$2.48, \$3.10, \$7.42, \$8.15, \$10.87, \$18.04, \$85.40. In each case the ore body, whether of quartz or porphyritic nature, proved to be of a laminated formation, that is to say, stratified, similar to slate formation, and of great width, which would indicate great depth, and no liability to pinch out. There is sufficient ore in sight on this one group to run a thousand stamps for the next 100 years.

Klondike Chief Group.—This group is situated on the left limit of the Yukon river at the water's edge directly opposite Dawson. Nature has uncovered the ore bodies to a depth of from 400 to 600 feet, exposing immense faces of ore. The samples given you are from a body of ore more than 100 feet thick, and uncovered for 400 feet above the water's edge. Assays returned \$2.89, \$9.50, \$16.32.

Black Cat Group.—The Black Cat Group is situated on the right limit of the Yukon river about one mile up stream from Klondike City, and while there are millions of tons of the conglomerate quartz, slate and porphyry in sight we have not yet received returns from the assayers.

Golden Lion Group.—The Golden Lion Group is situated on the right limit of the Klondike river opposite the mouth of Hunker creek, the solid ledge being exposed from the water's edge to a height of about 250 feet. The average assay received from this was \$7.23. On top of the ledges is an immense gravel deposit, at some points 150 feet in depth, but averaging 50 feet, which deposit is composed of broken up gold bearing quartz and porphyry, which averages about \$5 to the ton in free gold. It is estimated that there is at least \$15,000,000 in the broken stuff on the surface of the Golden Lion claim. To reach this estimate more than twenty shafts, tunnels and drifts have been made into bed rock on the surface of this one claim.

All of the above described properties are situated on the water's edge of the Yukon and Klondike rivers. The assay returns given are in free gold per ton, and these properties can be worked by water power for at least six months in the year.

The Curbin Group.—This group is situated on the right limit of Bonanza creek from 30 to 70 below discovery. It is owned by W. O. Smith and others. Several tunnels and shafts have been made on this group. Assay returns ranging from \$2.50 to \$143.95 gold per ton. This group is surveyed and crown grants applied for.

Black Bear Group.—Situated on the left limit of Bonanza creek at the mouth of Boulder creek. On the Black Bear claim is a body of ore about 250 feet thick by 250 feet high and 1500 feet long in sight. This same body of ore continues for about 300 feet under the creek, forming the bedrock of the creek. Eight shafts have been sunk to the bedrock and three different tunnels are being driven into the hill. I have had more than 20 assays made from this body of ore running \$3, \$6, \$9, \$12, \$16, \$20, and \$1180, from different strata, and have never found a blank or a body being mineralized.

Precedence Nos. 1 and 2.—Situated on the left limit of Bonanza creek from No. 14 to No. 21 below discovery, covering Magnet and American claims. At 14 below a tunnel is being driven in the hillside just above the creek, and at present is nearly

this manner. The ledge is a good strong ledge and has been traced on the surface for at least two or three miles in length. The values are principally in the oxide of iron in this rock.

The Dome Group.—Owned by the Dome Gold Mining Company, Limited. This group is situated on the backbone of the divide being the watershed of Bonanza, Quartz, Sulphur, Dominion and Gold Bottom creeks. This company has done sufficient prospecting in testing on their ten claims to induce them to survey the entire group and pay the Dominion government \$5000 cash in lieu of work and have applied for their crown grants.

The Ben Levy Group.—This group is situated on Hunker creek, on the right limit, at 74 below discovery. Tunnel 100 feet long, and an inclined shaft extending from the back end of the tunnel for 150 feet has been driven into this claim, which development work has crossed cut a ledge 40 feet in thickness between two solid walls at about 150 feet from the surface near the summit. The assay values secured by myself by the cyanide process yielded respectively \$32.57 in gold and 98 cents in silver, and \$12.15 in gold and 72 cents in silver. Several other assays made in the United States by several different assayers range from \$10 to \$167 in values. This ore I believe is a graphite tellurium.

The Jennie Group.—On the right limit of Eldorado creek, running from No. 26 to No. 30. One shaft 30 feet deep, with cross-cut 44 feet long in free milling quartz and no wall located as yet. Assays from \$1 to \$28.93 in gold per ton. Several shafts ranging from 10 to 20 feet deep on different ledges cropping to the surface. Assay returns from these prospects \$3.10, \$6.20, \$26.87, \$106.08.

Blankin & Cullen Group.—Situated on the left limit of Eldorado creek from No. 36 to No. 42. One tunnel 58 feet long and cross cut through 28 feet of quartz. Assays from \$3 to \$6.40 in gold per ton. One open cut on foot wall 60 feet long, 8 to 16 feet deep, cross cutting 20 feet of pay as far as tested, consisting of stratified serpentine. Returns from more than thirty assays run from \$1.86 to \$132.40 in gold per ton, also showing copper values. Another prospect on the adjoining claim is in porphyry. A number of shafts 8 to 20 feet deep showing porphyry 30 feet wide with assay values, \$4, \$12.25, \$15.45, \$16.07 in gold per ton. The ore lying next to this hanging wall of porphyry is also serpentine; assay returns being \$4.32 in gold and \$14.72 in copper. The extent of this body is yet unprospected, but surface croppings are large.

Lone Star Group.—This group consists of five claims situated near the divide at the head of Victoria gulch on the Bonanza slope, about 4000 feet above Dawson. More than 50 prospect holes, open cuts, shafts and tunnels have been made, the deepest shafts being 43 feet and 1 feet in depth. At the bottom of the 43-foot shaft is a drift 70 feet long. At the bottom of another shaft 32 feet deep is a drift 70 feet long, cross cutting several hundred stratas of quartz, shists and porphyry, all of which is pay ore from the surface down. A tunnel was started at a distance of 150 feet up-hill from the 32-foot shaft and was driven in about 75 feet, including the open cut, cross cutting at least 20 feet of pay ore in place. Thirty-five tons of ore milled by the Mungier & Spencer stamp mill, which work was done without a crusher or concentrator, yielded 25 ounces 4 dwts. and 3 gr. of free gold on the plates, the rock carrying a fair percentage of concentrates of hematite and pyrites of iron as well as oxidized free gold. It is estimated that not more than 50 per cent. of the values were saved by this mill test. Assays from picked samples on this group would run from \$100 to \$30,000 a ton. It would seem to me from panning and assays made from these shallow prospect holes that the pay streak of this ledge or deposit must be at least 300 feet wide between the walls. There is sufficient broken and disintegrated quartz, porphyry and shist on the surface of this group, in some places existing to a depth of 50 feet, to employ quite a large stamp mill for a number of years without the use of dynamite. Horse-gap scrapers could be employed in place of drilling and shooting.

The White Channel Group.—This group adjoins the Lone Star group on the north boundary, lying on both the Bonanza and Eldorado slopes between Bonanza and Eldorado creeks, reaching almost from creek to creek, and the many shafts and open drifts have proved it to be of the same formation as the Lone Star group. This property belongs to the White Channel Quartz Mining Company, Limited, who also own eight other claims on Bonanza creek between 21 above discovery and 18 above on the left limit.

The Violet Ledge.—This group of claims is on the divide between Ophir creek and Eldorado creek, near the Lost Miner group. Some very rich free-milling ore has been found here and a shaft between 50 and 100 feet deep has been sunk on the ledge. Mr. Fleming of Fleming, Larsen & Cameron, has bonded this group and can give you the actual figures obtained from assays of this quartz, in which free gold is evenly distributed and plainly visible, in fact, it is so rich that rocking the decomposed quartz to a depth of 8 feet from the surface yielded \$30 in 20 hours work by one man, the tailings from this rocker still showing visible free gold in them. At the depth of 8 feet the rock became too solid to be worked in

Mr. and Mrs. Bowser

"By George, but that man hits the nail square on the head!" exclaimed Mr. Bowser, as he looked up from his paper and cast a tender eye toward the baby asleep in his carriage.

"What is it?" asked Mrs. Bowser. "Why, he cites case upon case to prove that, where the bringing up of a child is left almost entirely to the mother it is sure to turn out badly. Fifteen of the most cold-blooded murderers of the past year had no father's care when infants."

"The fathers were probably off to the lodge or club, or too selfish to want to bother with them," replied Mrs. Bowser.

"Eh, eh? But that has nothing to do with the matter. It's woman's natural weakness of character he refers to. He also shows that her want of sense sacrifices fifty thousand lives every year. What a father knows by instinct—a mother must learn by experiment. For instance, ninety-nine out of every one hundred fathers in this world would turn that sleeping child with his head to the north."

"Why?" "Because an electrical wave is constantly sweeping from south to north between the poles. It should sweep from the feet upward. When it sweeps across the body headache, lassitude and other complaints are the result."

"But he is fat and healthy," she protested.

"He appears to be, but it is only appearance. It is singular that nature should have created such an anomaly as a woman, though I suppose it was done to make man shine the brighter by comparison. I sometimes pity her for her lack of instinct and intuition."

"Your instinct probably tells you at what age a baby cuts its first tooth?" queried Mrs. Bowser, with considerable tart to her voice.

"Certainly. The two back teeth on the lower jaw—generally appear at three months."

"No baby cuts a tooth at three months. Four months is, by far, the best, and then it's a front tooth. They never get back teeth under a year."

"Mrs. Bowser, I have said two back teeth at three months, and that settles it!" said Mr. Bowser as he

got up to walk about. "Women talk at random. Men know what they are saying. Our child probably got all his back teeth before you knew he had even one."

"He is over a year old and hasn't got one yet? The doctor said yesterday there were no signs of one."

"What the doctor said and what I know are two different things, Mrs. Bowser. If the child hasn't got all his back teeth, then it proves physical neglect. He has them, however, and it is useless to discuss the matter. Do you know how many teeth the human mouth is provided with?"

"Certainly. Do you?" "I should be a queer husband and father not to."

"How many?" "As he couldn't tell within six or eight, he gave her a look of mingled pity and disdain and continued to walk up and down. When he thought her sufficiently crushed, he said:

"If that child should begin to wake up now, what would your instinct tell you to do?" "Rock him, of course."

"And if he continued?" "Turn him over."

"And if he opened his eyes and looked around?" "I'd draw him back and forth and sing to him."

"Just as I supposed. That would be the force of habit—the same thing that brings a cow up to the barnyard every evening. Intuition would tell me to look for the darned needle working its way into his body, and his life would be saved. Mrs. Bowser, do you know whether that child is tongue-tied or not?"

"Of course he isn't!" "That's simply inference. You are not certain of it. Intuition will oblige me to look at his tongue to-morrow. What about his sight?"

"Why, his sight is all right." "It may be, and it may not. You do not personally know whether you look to be four or nine feet high to him. He may see double or be color blind. Intuition has not led you to satisfy yourself on this point. Have you experimented to see if his hearing is good?"

"I know he hears all right," she answered, as a frightened look came to her face.

"That's inference again—nothing but inference. Because he starts when you knock over a chair you suppose his hearing is all right. Poor child! I have neglected him, but I will turn over a new leaf to-morrow."

"You'd better turn it over now, Mr. Bowser; as your loud talk has woken him up, perhaps intuition will tell him to go to sleep again."

"Certainly—and I'll prove it. Intuition teaches me to lift him up so—and to carry him so—and to cress him thus, and intuition teaches him to—"

The child set up a bowl that made the windows rattle. Mr. Bowser changed arms with him, but the howl increased. He dropped into a rocking chair, jumped up and ran about and sat down on the lounge, but the youngster, bugged out his eyes, grew red in the face and was gasping for breath when he was turned over to Mrs. Bowser with the indignant exclamation:

"Why in blazes don't you take this confounded young un off my hands? Do you want folks to think we are murdering him by inches?"

"I thought you said that intuition would—"

"Never said anything of the kind! Hear him howl! What he needs is a dose of bootjack well laid on, and if he doesn't shut up I'll give it to him. Get him up stairs or down cellar or out of the United States!"

Mrs. Bowser had the child asleep again in ten minutes. When she sat down, she asked:

"Mrs. Bowser, when a child cries out like that, what does it mean?" "Don't you see that I'm reading?" interrupted Mr. Bowser, as he looked at her over the top of his spectacles.

"Yes, but—"

"Then don't interrupt me. It's not good manners. That's one reason why so many husbands run out nights—because they can't sit down to read for ten minutes in their own homes!"

Job Printing at Nugget office.

Opened by President Washington, D. C., Feb. 9.—President Roosevelt formally opened the exhibit of the annual convention of the canning and allied industries at Convention hall, this afternoon. Shortly before 3 o'clock he left the White House, accompanied by Secretary Cortelyou, and was driven to Convention hall, where the exhibit of machinery and supplies had been put in place. The president was given a cordial reception by the large crowd assembled to witness the opening of the exhibit.

Butter, two-and-a-half pound roll, only \$1.00, at all stores.

On March 1st

The office of the Dawson Water and Power Co. will remove to near the corner of Third avenue and Princess street, next McLennan, McFeely & Co's warehouse.

PROFESSIONAL CARDS

LAWYERS
PATTULLO & RIDLEY - Attorneys, Notaries, Conveyancers, etc. Offices, Rooms 7 and 8 A. C. Office Bldg.

Pacific Coast Steamship Co.

Affords a Complete Coastwise service. Covering Alaska, Washington, California, Oregon and Mexico.

Our boats are manned by the most skillful navigators. Exceptional Service the Rule.

All Steamers Carry Both Freight and Passengers.

DOWNING'S EXPRESS

..For Fortymile and Eagle City..

Carrying mail, passengers and express, leaves every TUESDAY MORNING AT 8 O'CLOCK

From Calderhead's dock, Dawson—Four-horse stages, plenty of fur robes, careful drivers, insuring a fast, comfortable service. All road house stations on this route are strictly first class.

For rates apply at office of Merchants Mail & Express Co., L. & C. Dock, Dawson.

FOUR CARLOADS OF JOB PRINTING MATERIAL

The finest and Largest Assortment Ever Brought to Dawson.

DO YOU NEED PRINTING?

IF SO THESE PRICES WILL GET YOUR WORK:

Letterheads	\$6.	PER THOUSAND
Business Cards	3.	"
Meal Ticket	4.	"
Dodgers	4.	"

Jobs Promised Tomorrow Delivered Today.

THE KLONDIKE NUGGET

JOB PRINTING DEPARTMENT.

Yukon Route

Service HORSE
Stages with fresh horses—most comfort—stopping
Sundays, 9 a. m.

J. H. ROGERS, GEN. AGENT

Myers

the...
Company
leave Skagway
ays.
LMER A. FRIEND, Skagway Agent

matter to what eastern
nt you may be de-
ed, your ticket should
d

the Burlington.

AGENT
re, SEATTLE, WN

for Cash

Horsepower Boiler
Horsepower Engine

GET OFFICE

orthern

ER"
PAUL EVERY DAY

With All Modern
s.

olders address the
SEATTLE, WASH.

Is
the Short Line
to
Chicago
And All
Eastern Points

th Pacific Coast con-
Union Depot

ited to communicate

ent, Seattle, Wn.

Successors to
Pacific Steam
Whaling Co.

Cook's Inlet

REZ, HOMER.

port
Sells From Juneau on
First of Each Month

SAN FRANCISCO
No. 30 California Street