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DEPARTMENT OF THE INTERIOR
Geological Survey
~~BUREAU OF MINES~~

PE-095-01

The Beatson-Girwood Mines
Valdez Precinct.
May 1925.

95-88

Ans. PE 95-1

Examined By J.G. Shepard.
U.S. Bureau of Mines.

The Beatson Mine of the Kennecott Copper Co., commonly known as the Latouche Mine, is situated at tide water on Latouche Island. Surface plant consists of dock and warehouses, bunk houses to accomodate four hundred men, a hospital, General store, office buildings, power plant, milling plant, and dwelling houses.

Power is generated by three McIntosh - Seymour deisal engines generating 1000K.W. These engines are rated at 500H.P. each and are direct connected to 350 K.W. generators run synchronously. Four batteries of tubular boilers furnish steam for two Westinghouse turbines of 500 K.W. capacity each. All machinery is run by electrical power generated in this plant.

The mine is producing at full capacity, hoising a little over 1300 tons of ore per day. Geology is fully dealt with in Mineral Resources of Alaska of ~~1910~~ 1910 Geological Survey Bulletin. Most of the rock comes from the Bluff pit, which was the original source of rock in the early stages of the mine. A vertical shaft 325 feet deep and 250 feet below sea level and two levels below the adit⁸⁷⁵ opened up. The adit level is a tthe elevation of the mill #5 feet above sea level and is the main haulage level. Below this is the 150 level which is the main mining level. The level below this is known as the grizzly level and all ore from the stopes passes over 18 inch grizzlies at this point. From the grizzlies, the ore passes to the 300 level, through the oreways and is treamed from cutes to the shaft and hoisted to the mill.

An auxillary shaft is being sunk from the 300 level and is down to the 450, an additional 200 feet will be sunk and a block of ground similar to the upper workings opened up.



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The Mill has a very simple flow sheet. Crushing is done by gyratory and Symonds disk crushers, grinding by ball mills, and concentration by Janney oil floatation machines. A large Oliver filter dries the concentrates. This completes the milling. The following table shows the results.

| | | | |
|------------|--------|--------------|--------|
| Mill Heads | | Concentrates | |
| copper | 1.70 % | copper | 20-22% |
| silver | .40oz. | Silver | 3-4oz. |
| Mill Tails | | Iron | 30% |
| copper | .23% | | |

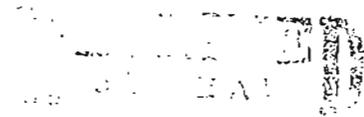
Ratio of concentration is 16 to 1
 Recovery 87 %

The presence of considerable pyrrhotite, with which the copper is closely associated makes a larger percent recovery extremely doubtful.

Mining and milling costs are about evenly divided, the Total being \$ 1.50 per ton.

Sufficient ore is blocked out, broken, and in sight to continue capacity production for five years under existing conditions.

The Girdwood Mine adjoining the Beatson, is in the course of development, but so far has been very unsatisfactory. The orebody is badly faulted, the ground is heavy, and the character of the ore makes the mill recovery low. About 20 tons per day is being produced at the present time and no appreciable tonnage is in sight.



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KENNECOTT COPPER CORPORATION
Beatson Mine

WAGE SCHEDULE EFFECTIVE NOVEMBER 10th, 1925

M I N E

| | |
|----------------------------|------|
| Miners | 4.90 |
| Miners Helpers | 4.25 |
| Shovelers | 4.25 |
| Grizzly Men | 4.90 |
| Ore Pocket Grizzly Helpers | 4.50 |
| Car Cagers | 4.50 |
| Skip Tenders | 4.50 |
| Hoistmen | 4.90 |
| Motormen | 4.50 |
| Steel Sharpeners | 5.15 |
| " " Helpers | 4.25 |
| Timberframer | 4.90 |
| Mechanics | 5.15 |
| Mechanic Helpers | 4.00 |
| Head Tracklayer | 4.90 |
| Tracklayers | 4.65 |
| Tracklayer Helpers | 4.25 |
| Track Cleaners | 4.25 |
| Timbermen | 4.90 |
| Timbermen Helpers | 4.25 |
| Loaders | 4.50 |
| Tool Nippers | 4.25 |
| Pipemen | 4.90 |
| Pipemen Helpers | 4.25 |
| Trammers | 4.25 |
| Outside Laborers | 3.75 |
| Powder & Fuse Men | 4.65 |

The foregoing wage effective until further notice.

Board will be charged \$1.25 per day.
Hospital 8¢ per day.

KENNECOTT COPPER CORPORATION
Beatson Mine

WAGE SCHEDULE EFFECTIVE NOVEMBER 10th, 1923

M I L L

| | |
|----------------------|------|
| Operators | 4.50 |
| Samplers | 4.00 |
| Conveyor Men | 4.00 |
| Concentrate Trammers | 4.25 |
| " " Helpers | 3.75 |
| Oilers | 4.00 |
| Laborers | 3.75 |
| Head Repairmen | 5.65 |
| Repairmen | 4.50 |
| Repairmen Helpers | 4.00 |
| Carpenters | 5.15 |
| Carpenter Helpers | 4.00 |
| Pipefitters | 4.50 |
| Pipefitters Helpers | 4.00 |

M E C H A N I C A L

| | |
|----------------------|------|
| Blacksmith | 5.15 |
| Blacksmith Helpers | 4.00 |
| Boilermakers | 5.15 |
| 1st Class Machinist | 5.95 |
| End " " | 5.15 |
| 1st Class Mechanic | 5.15 |
| End " " | 4.65 |
| 1st Class Pipefitter | 5.15 |
| End " " | 4.65 |
| Pipefitters Helpers | 4.00 |
| Mechanical Helpers | 4.00 |
| Electricians | 4.65 |
| Electricians Helpers | 4.00 |
| Power Plant Engineer | 5.65 |
| Hoist Engineers | 5.15 |
| Compressor Men | 4.90 |
| Firemen | 4.00 |
| Oilers | 4.50 |
| Laborers | 3.75 |

G E N E R A L

| | |
|-----------------------|------|
| Carpenter - 1st Class | 5.15 |
| Head Painter | 5.15 |
| Rough Carpenters | 4.40 |
| Surface Laborers | 3.75 |
| Teamsters | 4.25 |

The foregoing wage effective until further notice.

Board will be charged at \$1.25 per day.
Hospital \$4 per day.