0.3,0.8

PE-113-02

TERRITORY OF ALASKA

DEPARTMENT OF MINES

JUNEAU, ALASKA

7 July 1951

MEMORANDUM REPORT

TO: Leo H. Saarela, Commissioner of Mines, Juneau, Alaska

FROM: James A. Williams, Associate Mining Engineer, College, Alaska

SUBJECT: Limited Examination of Enterprise Mine, Limestone Inlet, Juneau Precinct. KX 113-4

On 1 July 1951, the writer, accompanied by Louis J. Anderson of Juneau, made a limited examination of the Enterprise Mine. The chief purpose of the examination was to check the property for the possible existence of radioactive and fluorescent minerals,

The mine was examined by J. C. Roehm in 1936, and his report and maps are on file. Also the property is referred to in USGS Bulletins 379 and 480.

The workings consist of upper and lower adits with a stope between them and a raise at the far end of the lower adit. Originally there was an open cut above the upper adit, but it is apparently covered with slide now, because a diligent search failed to reveal it.

The adits are about 1300 feet above sea level on the north side of Limestone Inlet at geographical coordinates of 133°59' W long. and 58°02' N lat.

All surface buildings are now gone and the remains of a five-stamp mill are scattered on the beach. At the time of operation there was an aerial tramway.

The country rock in which the mineralization took place is granite and very hard. The drifts have stood up well through the years, and the hanging wall of the vein is very regular and solid. The vein is quartz, quite regular, dipping 45° to the northwest. It varies from fourinches to one foot in thickness in the lower adit and up to two feet thick in the upper adit. The mineralization is pyrite and gold, and in places the granite wall rock contains nice cubes of pyrite. The quartz appears to gradually alter to a poor grade of gneiss in a few places. In the upper adit, where the vein is larger, the mineralization is better than in the lower.

Louis Anderson reports that he took five samples, including one from the open cut many years ago, and that the underground samples varied between $2.50 and $5.00 per ton in gold while the sample from the open cut was of a much higher value. J. C. Roehm, in his report, gives about the same results, with slightly higher values on two of his underground samples. No samples were taken in the present examination.

A Beckman Radioactivity Detector, Model Mx8, was used throughout the adits in an effort to find traces of uranium, but no radio-activity beyond the normal amount was encountered.

In the use of an ultra-violet lamp to locate fluorescent minerals, results were also negative.

Respectfully submitted,

James A Williams

JAMES A. WILLIAMS
Associate Mining Engineer

~~3~~ 2	7.76	17.40
~~3~~ 2	11.76	176.40
24	10.78	258.72
28	1.61	45.08
24	6.08	204.68
31	3.08	95.48
13		780.36

Average 5.91

5.91
13) 780.36
660
1203
1188
156

Excluding Example #2

WV = 9x0.64

Total B = 156 − Total WV = 170.00 = A1 = $10.90