

THE HARRY PANNICK PROSPECT ON FLUME CREEK
FAIRBANKS DISTRICT, ALASKA

BY

THEODORE VANCE, MINING ENGINEER

SEPTEMBER 4, 1968
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Mr. Harry Pannick and partner, Al Stevens, have been placer mining for several years on Flume Creek near its confluence with Pedro Creek. During the course of operations, a cut was made to bedrock on the left limit bench and a vein of sulphide - bearing quartz exposed. Harry Pannick brought in a sample to the Division of Mines and Minerals and requested an examination of the property.

LOCATION

Flume Creek is reached by the Steese Highway to a road junction about 3 miles northeast of the Village of Fox (see enclosed map). From this junction, a graded road leads northwesterly one and a half miles to the placer operation.

GEOLOGY

A vein of quartz five feet wide was slightly exposed upon arrival at the property. By means of a bulldozer, this vein was ultimately traced for about 100 feet where it disappears beneath the alluvium on the hill to the north. Strike is N 20 W, with a vertical dip.

Mineralization consists of pyrrhotite, pyrite, and very sparse chalcopyrite. Wall rock alteration has produced some sericite which gradually diminishes away from the vein.

The country rock is Birch Creek schist which locally consists of quartz mica schist with occasional beds of quartzite (strike N 40 W, dip 46 east). A fault zone in the schist is exposed 200 feet east of the access road. This fault is marked by three feet of white gouge containing quartz and schist fragments. No sulphides were visible. A five inch vein with crushed quartz occurs ten feet west of the fault. Strike of both vein and fault is N 10 E; dip is apparently vertical.

Samples were taken from the fault on the possibility that this could represent a vein which had been subjected to later movement.

the following assays were obtained;

| <u>Sample</u> | <u>Location</u> | <u>Ounces Per Ton</u> | | <u>Weight Per Cent</u> |
|------------------------------|-----------------|-----------------------|-------------------|------------------------|
| | | <u>Gold oz.</u> | <u>Silver oz.</u> | <u>Copper</u> |
| 1. Qtz vein at nozzle (grab) | see map | trace | 0.01 | less than 0.01 |
| 2. West Stringer | see map | trace | 0.01 | less than 0.01 |
| 3. Vein, Bottom of trench | see map | trace | 0.01 | less than 0.01 |
| 4. Vein | see map | trace | 0.03 | less than 0.01 |
| 5. Small vein west of fault | see map | trace | 0.01 | less than 0.01 |
| 6. Fault | see map | trace | 0.02 | less than 0.01 |
| 7. West wall of vein | see map | 0.01 | 0.02 | less than 0.01 |

Accuracy of the atomic absorption examination is $\pm 5\%$ of the reported value.

CONCLUSIONS AND RECOMMENDATIONS

As a general rule veins containing pyrrhotite, in the Fairbanks District, have not been rich in gold or silver. However, this is a rough guide only and does not rule out the possibility of this vein containing ore shoots in places not yet exposed.

It is recommended that samples be taken in other parts of the vein as it is uncovered during future placer operations.

Respectfully submitted

Theodore Vance
Mining Engineer



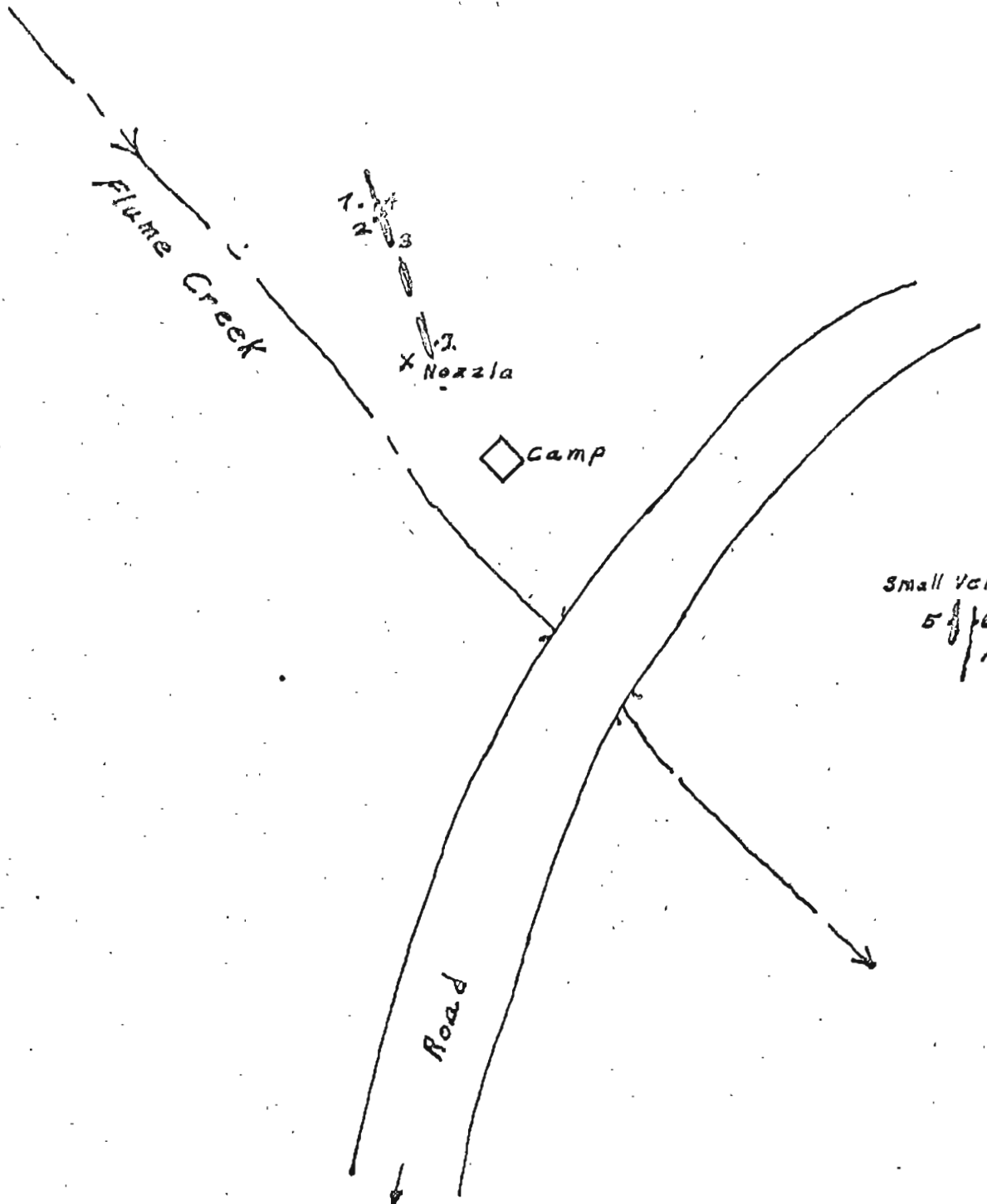
THE FAIRBANKS DISTRICT, ALASKA

Scale 62500

1/2 Mile

FROM: USGS Bull. 849-B





Small vein
5 ft / fault

To Stasco Highway
1 1/2 miles

H. Pannick Prospect

