

PE 85-9

PRELIMINARY REPORT OF MINERAL PROPERTY
 (KELLY GOLD MINES CORP.), UPPER WILLOW CREEK,
 WILLOW CREEK DISTRICT, ALASKA
 August 9, 1933

Location and Accessibility:

The Kelly property consists of five patented and five un-patented claims, located at the head of upper Willow Creek on the left limit. The property adjoins the Martin or Free Gold property on the northwest. A newly constructed road one and one-fourth miles in length leads from the Wasilla road to the camp and mill.

Owners:

The owners of this claim group are Mr. & Mrs. Milo Kelly of Wasilla. Last year the property was incorporated as the Kelly Gold Mines Corporation, which is now being developed under the management of Milo Kelly.

History:

These claims were located and the veins discovered by Milo Kelly several years ago. Five claims were patented. A shaft 75 feet in depth was sunk on the lower of five reported veins. This vein ranged from 10 to 30 inches in width. Later a crosscut tunnel was driven below this vein a distance of 149 feet without cutting the vein. Numerous cuts were made along the slope on the veins, but these are at present filled with slide rock and very little information could be gained concerning these veins. A 50-foot tunnel was driven below the cuts, but this was caved on date of visit. Last year a 15-ton Eldorado ball mill was erected and a 1500-foot tram was constructed between the mill and the upper proposed tunnel site. This season to date has been spent in installing a compressor and erecting a compressor house at the tunnel site, elevation 4100 feet. The tunnel was started and 12 feet had been driven on date of visit.

Geology and Showings:

The formation contained over this entire group consists of quartz diorite, the prevailing formation of this area. The veins, as determined by the numerous trenchings, appear to have a north-northeast strike and are reported to have dips to the west. They appear to be parallel in strike and at irregular intervals apart. For general geology of this area refer to U. S. G. S. bulletin 607, "The Willow Creek District, Alaska" by S. R. Capps.

The upper vein is located above the upper caved tunnel, elevation 4300 feet. Cuts now filled with slide rock exposed the vein for some distance. The vein was reported as averaging from 12 to 18 inches. The dump of the tunnel shows the vein was apparently cut as some quartz containing mineralization was noted. The length of this tunnel was reported as 50 feet. The present site, elevation 4100 feet, is directly below this vein. This tunnel is in 12 feet and after the erection of the compressor at this site, which is also the upper tram station, it will be driven to cut this upper vein, giving over 200 feet of back.

Located 1,000 feet west a shaft was sunk 75 feet on a quartz vein that has a reported width from 10 to 30 inches. Below the shaft a crosscut tunnel has a length of 149 feet, but has not cut the vein. A total of five parallel veins were reported across a width of 1,000 feet. Considerable quartz float shows along the mountainside and some of this has been gathered and will be milled.

Mineralization:

Free gold was noted in several of the quartz boulders of the float. Pyrite, chalcopyrite and small specks of galena were noted in the tunnel ore. Gangue minerals consist of a milky white quartz showing vugs and crystal faces, chlorite, sericite, and altered diorite minerals.

Machinery and Buildings:

At the upper tram site and tunnel site, elevation 4100 feet, a 12x16 foot compressor house was under construction. A reconditioned Dodge motor with special head is to be used as a compressor, delivering 154 cu. ft. of air per minute. From this point a 1500-foot gravity tram using 500-pound buckets, leads to the mill on the valley floor, elevation 3650 feet. Here the ore is to be dumped into a bin and fed to a roll crusher from which it is fed into a 15-ton Colorado ball mill. Quicksilver is to be used in the mill. From the mill the flow runs over two sets of plates and into an Allan amalgam trap. Later a flotation cell is to be added. Power for the mill is lacking as the water power from the springs above was found to be inadequate. The buildings on the mill site consist of mill building and tram tower, blacksmith shop, powder house, 14x24 foot bunk house, 14x36 foot cook house and garage for truck. This season three men were employed.