



A report on

THE HANNUM CREEK LEAD DEPOSIT
by
Willow M. Burand

PE-44-118

The results of the 1957 season's exploration and development work on the Neil W. Foster Hannum Creek Lead Prospect failed to prove or disprove the presence of the source of the mineralization or the presence of an ore body. It did reveal the presence of a large area of low-grade lead near the surface and a possible enrichment at depth.

The Hannum Creek Lead Prospect is located on the south side of Harry's Creek, a tributary of Hannum Creek, which is in turn a tributary of the Inmachuk River. The Lead Prospect is approximately twenty air miles southwest of Deering and at present is reached by bush plane or by road from Deering to Utica, and cat trail the rest of the way.

In 1956 the U. S. Bureau of Mines bulldozed four trenches on the south side of Harry's Creek and one trench on the north side of the creek on the Hannum Creek Lead Prospect. The trenches revealed the possible presence of an ore body of the bedding plane type. In the west wall of trench number 2 there was also exposed a vein(?) of galena which is 4 to 6 feet wide and assayed 66.1% lead, 0.02 ounces of gold and 6.72 ounces of silver per ton.

A diamond drilling program was attempted but failed because of the fractured, frozen condition of the formations

and a drill which was found to be too small to cope with the adverse conditions met. When the drilling program failed, trenches numbers 1 and 2 were deepened and sampled. The results are shown in figure 1. Two additional trenches were started at one hundred foot intervals to the southeast of trench number 1 with the intention of uncovering the extension of the ore zone as exposed in trenches numbers 1 and 2. These were not completed due to the lateness of the season and the frozen condition of the overburden. U. S. Bureau of Mines trench number 3, which I have numbered 3 and 4, was also deepened, and the area to the west was stripped of overburden to expose a brown and purplish-black sandstone containing numerous small veinlets of galena. Area number 2 was stripped of overburden exposing the same formations which contained similar veinlets of galena. The purplish sandstone minus the galena veinlets or crystals assayed 3.46% lead, a trace of silver, and 0.02 ounces of gold per ton. Assays of the galena veinlets have not been obtained at this writing.

The results of this season's work failed to prove or disprove the presence of the source of mineralization in the formations of the Hannum Creek Lead Prospect. Further exploration work is necessary to prove the presence of an ore body.

Willow M. Burand
Assay-Engineer
Territory of Alaska
Department of Mines
October 1957

METHODS of sampling used to obtain representative samples of the ore zone exposed in trenches numbers 1 and 2:

Trench number 1: The southeast wall of trench number 1 was sampled in the ore zone by three channels cut in the wall at 10 foot intervals from the top of the ore zone to the floor of the trench, a distance of approximately three feet. The samples obtained from the floor were taken from channels five feet long cut in the ore zone across the exposed formations which appear to strike N. 70° to 80° W. and to dip 15° to 30° N.E.

Trench number 2: The east wall of trench number 2 was sampled with the same type of channels as trench number 1. The first five wall samples were taken at 10 foot intervals and the last five at five foot intervals; in an attempt to prove or disprove the continuation of the vein(?) exposed at "A" in trench number 2. The floor samples were taken similarly to those of trench number 1.

HANNUM CREEK LEAD PROSPECT
Assay Data

Description	Sample Number	Gold Oz/ton	Silver Oz/ton	% Lead
Yellow sandy zone in east wall of trench number 1				
Ore zone S.E wall	1	Nil	0.16	2.8
"	2	Trace	0.36	2.2
"	3	Nil	0.22	3.8
floor	4	Nil	0.37	5.9
	5	0.05	10.11	5.7
	6	Trace	5.94	5.3
	7	0.06	4.34	4.7
	8	Trace	4.50	2.3
Limestone zone trench number 2				
floor	9	Nil	7.52	5.1
	10	Nil	0.22	1.7
	11	Nil	0.46	3.6
	12	Nil	0.88	3.1
	13	0.01	0.23	2.4
	14	0.03	0.59	1.9
	15	Nil	1.16	4.6
	16	0.02	1.38	6.2
Yellow clay zone trench number 2				
floor	17	0.01	7.84	8.4
	18	0.05	10.09	5.9
	19	0.03	8.06	9.6
	20	0.06	10.08	2.3
	21	0.04	6.42	2.3
Limestone zone trench number 2				
wall	22	0.09	6.64	3.8
	23	0.02	1.38	1.8
	24	0.02	1.42	5.8
	25	0.02	1.88	4.2
Yellow clay zone trench number 2				
E. wall	26	Trace	3.42	1.8
	27	0.01	6.97	3.1
	28	Trace	3.46	2.4
	29	0.06	9.68	13.4
	30	0.06	9.58	4.2
	31	0.03	1.81	1.0

Figure 1