



Occurrence Details

Occurrence Number: 105L 001

Occurrence Name: Lokken

Occurrence Type: Hard-rock

Status: Prospect

Date printed: 12/16/2025 2:02:29 PM

General Information

Secondary Commodities: lead, silver, zinc

Aliases: Jack

Deposit Type(s): Skarn Pb-Zn

Location(s): 62°3'38" N - 134°5'35" W

NTS Mapsheet(s): 105L01

Location Comments: .5 Kilometres

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

Staked as Chopper cl (73111) in Jul/57 by Asbestos Corp. Restaked as Jack cl (YB26512) in Aug/88 and Aug/89 by Greater Lenora Resources Corp. which performed stream sediment sampling, soil sampling, mapping and some hand trenching in 1990, followed by detailed mapping and sampling of four mineralized zones in 1991. In the summer of 1994 Greater Lenora carried out additional rock sampling, geological mapping, prospecting and HLEM and IP geophysical surveys.

J. Murnion staked Sun cl 1-18 (YB57999) 7 km to the north in Jul/95. In Sept/95 Murnion staked Ben cl 1-34 (YB66242) south of the Sun claims. In Oct Murnion staked King cl 1-30 (YB66305) 8 km to the west.

Capsule Geology

Two strong northwest trending regional faults bisect the Jack claims. The faults juxtapose Lower Cambrian Harvey Group Schist, gneiss and marble on the northeast side of the faults, with Carboniferous and Permian phyllite, shale, marble, limestone and greenstone on the southwest side of the faults. A large body of Cretaceous granite intrudes the Harvey Group schist and gneiss on the northeast side of the fault. The granitic body appears to be cut by the northwest trending faults.

Harvey Group rocks are a high grade metamorphic assemblage of predominantly quartz-rich metasedimentary rocks, metapelite and marbles. Common lithologies include quartz-muscovite and quartz-muscovite-biotite schists, biotite-feldspar schist, garnet-biotite schist, quartzite, marble and amphibolite.

Carboniferous to Permian rocks are a low grade metamorphic assemblage of shale, greenstone and carbonate, variably sheared and foliated. Sub-units include a light grey phyllite, micaceous shale, marble and limestone and foliated intermediate greenstone.

Cretaceous granite consists of a light, pale orange, blocky-weathering quartz-rich, variably foliated and sheared, biotite and hornblende-biotite alaskite, granite and quartz monzonite. Locally fine grained quartz-feldspar porphyry dykes and sills intrude rocks of the Harvey Group.

Within the Harvey Group, on the northeast side of the northwest trending faults, a number of parallel northeast trending lineaments have been mapped. These are presumed to be faults.

Sphalerite, galena and chalcopyrite occur in garnet-diopside-wollastonite-epidote skarn near the contact between Lower Cambrian, Harvey Group Limestone and a Cretaceous intrusion.

In 1990, Greater Lenora Resources was unable to find the original Lokken showing, but discovered 4 new mineralization zones 2 km to the southwest. Trench 1990-1 on the President showing exposed variable amounts of densely disseminated to massive sphalerite and galena over a width of 1.2 m and a strike length of 20 m. Assays returned a weighted average of 13% Pb, 18% Zn and 305.1 g/t Ag over 3.0 m. Another trench located 25 m further north returned 9.87% Pb, 15.8% Zn and 90.9 g/t Ag over 0.8 m. More mineralization was discovered 120 m north of Trench 90-1. A chip sample returned 532 ppm Ag, 8.33% Pb and 12.2% Zn over 0.60 m.

The Glen occurrence, discovered in 1991, is located 600 m south of the President showing. It consists of disseminated galena, sphalerite, chalcopyrite and pyrite/pyrrhotite in biotite marble associated with magnetite-diopside-calc-silicate skarn. An 8.1 m chip sample from trench 91-1 returned 2.66% Zn.

The Hobo occurrence is located 1200 m north of the President showing. Pb-Zn mineralization occurs in garnet-actinolite-calcite and calc-silicate skarn adjacent to a marble-granite contact and within a 10 x 10 m quartz stockwork zone.

The Geoff occurrence is situated 1000 m north-northeast of the President occurrence. Mineralization in the area is weak and occurs in three types of skarn: (1) siliceous marble/calc silicate (2) green calc-silicate with magnetite (3) massive magnetite-diopside skarn. A specimen of the first type contained 1.05% Zn.

The style of mineralization, grade and host rocks are similar to the Sa Dena Hes deposit (minfile occurrence #105A 013) 320 km to the southeast.

In 1994 Greater Lenora found three new occurrences named Camp, Interlake and '783'. The Camp occurrence is the best exposed occurrence. It consists of three exposures of marble in contact with granite. Skarn pods up to 30 cm wide and 20 m long were sampled and the area returned values up to 4 160 ppm Zn, 556 ppm Pb, 812 ppm Cu, 24.6 gm/t Ag and 610 ppb Au. An IP survey was carried out over the zone and several anomalies of interest were indicated.

The Interlake Occurrence is poorly exposed but contains high grade > 10% combined Pb-Zn. One sample collected from the occurrence returned 5.38% Zn 3.59% Pb and 904 g/t Ag. The '783' occurrence is located upslope of a 738 ppm Pb soil anomaly, is poorly exposed and appears to be fairly low grade.

The HLEM geophysical survey failed to locate any significant conductors. The IP survey carried out over the Camp occurrence produced several anomalies over an area of Cambrian Harvey Group Limestones which may represent skarn mineralization.

References

GREATER LENORA RESOURCES CORPORATION, Aug/89. Assessment Report #092926 by R.A. Doherty.

GREATER LENORA RESOURCES CORPORATION, Aug/89. Assessment Report #092989 by R.A. Doherty.

GREATER LENORA RESOURCES CORPORATION, Feb/96. Assessment Report #093386 by R.A. Doherty.

THE PROSPECTOR, Nov-Dec/90.

YUKON NEWS, Oct/90.

Work History		
Date	Work Type	Comment
12/31/1994	Geochemistry	
12/31/1994	Geology	
12/31/1994	Ground Geophysics	Also HLEM survey .
12/31/1994	Other	
12/31/1991	Geochemistry	
12/31/1991	Geology	
12/31/1990	Geology	
12/31/1990	Geochemistry	
12/31/1990	Geochemistry	
12/31/1990	Trenching	

Assessment Reports that overlap occurrence					
Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
095351	2010	Report on Geochemical Sampling of the Quad Claims Solitary Creek Yukon	Soil - Geochemistry		
093386	1995	Report on the 1995 Geological and Geophysical Exploration Work on the Jack Property	Rock - Geochemistry, Bedrock Mapping - Geology, EM - Ground Geophysics, IP - Ground Geophysics, Line Cutting - Other, Prospecting - Other		

Related References				
Number	Title	Page(s)	Reference Type	Document Type
ARMC016520	Geological map of 105L/1 - Truitt Creek - Tintina project		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC014597	Aeromagnetic series map 3396 G - Truitt Creek with field locations marked		Property File Collection	Geophysical Map
ARMC014588	Provisional map 105L/1 - Truitt Creek - 1969 worksheet with geology showings		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC014594	Provisional map 105L/1 - Truitt Creek with field notations		Property File Collection	Geoscience Map (General)
ARMC014595	Provisional map 105L/1 - Truitt Creek with field notations		Property File Collection	Geoscience Map (General)
ARMC014587	Provisional map 105L/1 - Truitt Creek - Showing mineral occurrences - Tintina		Property File Collection	Geoscience Map (General)
ARMC019531	Correspondence re: Greater Lenora with sketch maps, notes and press release of new mineral find		Property File Collection	Miscellaneous Company Documents