



## Occurrence Details

**Occurrence Number:** 105F 080

**Occurrence Name:** Nokluit

**Occurrence Type:** Hard-rock

**Status:** Prospect

**Date printed:** 6/16/2025 2:28:43 AM

## General Information

**Secondary Commodities:** barite, cerium, copper, fluorite, gold, lanthanum, lead, neodymium, niobium, rare earths, silver, thorium, uranium, yttrium, zinc

**Deposit Type(s):** Skarn

**Location(s):** 61°29'21" N - -132°10'27" W

**NTS Mapsheet(s):** 105F08

**Location Comments:** .5 Kilometres

**Hand Samples Available:** Yes

**Last Reviewed:**

### Capsule

#### Work History

The syenite stock and associated fluorite and barite were first noted by British Yukon ECL on its Kay cl (69843), staked in Oct/54 and mapped in 1955. The radioactivity and rare earth minerals were discovered by Ukon JV (Chevron and Kerr Addison), which staked the Nokluit cl (YA567) in Aug/76 and explored with mapping, soil sampling and radiometric surveys in 1976 and 1977 and wide-spaced rock sampling in 1979.

The north side was restaked as Ketza cl (YA72436) in Oct/84 by a joint venture between Quillo Res Inc and High River Res L, which performed mapping and geochem sampling in 1985. In 1987, Canamax Res Inc performed airborne mag, geochem and VLF-EM surveys under an option. The claims were transferred to Canamax in May/89 then returned to Quillo and High River in Dec/89.

Restaked as Lancer claims (YB33962) in May/91 by J. Dodge, who prospected and sampled that year and transferred the claims to Dodgex Ltd in Jan/92. Dodge added the Lancer 9-10 cl (YB46275) and the Dig 1-2 cl (YB46273) in Sep/93, and performed hand trenching, sampling and a scintillometer survey. In June/94 Dodge carried out further trenching on Lancer cl 8 (YB33969).

#### Capsule Geology

Radioactive and rare earth minerals are associated with purple fluorite in skarns peripheral to a small Mississippian syenite stock cutting Cambrian carbonate rocks. Similar mineralization is found nearby in narrow siliceous veins cutting trachyte and tuff of Mississippian age. Assays range up to 3200 ppm Th, 74 ppm U, 2000 ppm Ce, 2000 ppm La, 2000 ppm Nd, 2000 ppm Y and 0.95% Cb2O5. The best chip sample collected in 1979 contained 1.2% rare earth elements and 0.5% niobium across 10 m.

Mapping by J. Dodge in 1991 showed that the rare earth elements are concentrated throughout a 3 to 8 m wide silicified and carbonatized zone in a metasomatized syenite dyke. The zone is slightly radioactive and has a strike of 120° and a subvertical dip. Petrographic analysis of a piece of leucocratic syenite showed that it consists almost entirely of fresh perthitic K feldspar, with up to 10% plagioclase, 10% quartz and 16% carbonate. Along the mineralized zone the syenite is altered to an almost structureless quartz-carbonate rock with relict lath textures. A more melanocratic phase of the syenite stock consisted of 53% albite and 28% aegirine, and lesser amounts of carbonate, hematite, fluorite, phlogopite and quartz.

Two galena-sphalerite showings were located by Quillo/High River. Grab samples of galena-rich and sphalerite-rich talus about 2 km northwest assayed 42.8% Pb, 1230.8 g/t Ag, 4.8% Zn and 0.07 g/t Au; and 17.7% Zn, 1.0% Pb, 48.0 g/t Ag and 0.03 g/t Au, respectively. This mineralization occurs in Lower Cambrian limestone near a major northwest-trending regional fault.

The second showing, one km to the northwest, consists of a northeast-trending vein swarm in Siluro-Devonian carbonate rocks. Individual veins are less than 4 cm wide within a zone that is 30 m wide. A grab sample assayed 918.8 g/t Ag, 25.1% Pb, 0.1% Cu and 0.07% Zn.

#### References

BRITISH YUKON EXPLORATION CO. LTD, Jan/56. Assessment Report by A.E. Aho & W.A. Padgham.

DODGEX LTD, Jul/92. Assessment Report #093036 by J.S. Dodge.

DODGEX LTD, May/94. Assessment Report #093196 by J.S. Dodge.

DODGEX LTD, Jul/96. Assessment Report \*#093475 by J.S. Dodge.

HIGH RIVER RESOURCES LTD and QUILLO RESOURCES INC, Dec/85. Assessment Report \*#091686 by C.G. Verley.

HIGH RIVER RESOURCES LTD and QUILLO RESOURCES INC, Dec/85. Assessment Report \*#091687 by C.G. Verley.

MINERAL INDUSTRY REPORT 1976, p. 190-191; 1977, p. 80.

UKON JOINT VENTURE, 1976. Assessment Report \*#090182 by A.R. Archer and E.P. Onasick.

UKON JOINT VENTURE, 1977. Assessment Report \*#090270 by A.R. Archer.

UKON JOINT VENTURE, Jan/80. Assessment Report #090577 by A.R. Archer.

YUKON EXPLORATION 1987, p. 153.

YUKON GEOLOGY & EXPLORATION 1979-80, p. 55-59, 175.

### Work History

Date	Work Type	Comment
12/31/1994	Trenching	Work carried out on Lancer claims.
12/31/1993	Ground Geophysics	Work carried out by Dodgex on Lancer and Dig claims.
12/31/1993	Trenching	Work carried out by Dodgex on Lancer and Dig claims.
12/31/1991	Other	
12/31/1987	Airborne Geophysics	also VLF-EM surveys.
12/31/1987	Other	
12/31/1985	Geology	
12/31/1985	Geochemistry	
12/31/1979	Geochemistry	
12/31/1976	Ground Geophysics	Follow-up of airborne results.
12/31/1976	Geology	
12/31/1976	Airborne Geophysics	
12/31/1976	Geochemistry	
12/31/1976	Geochemistry	
12/31/1955	Geology	
12/13/1987	Geology	

### Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
<a href="#">094537</a>	2004	Assessment Report Describing Geology, Mineralization and Geochemistry at the Barra Property	Silt - Geochemistry, Bedrock Mapping - Geology		
<a href="#">093475</a>	1996	Evaluation Report, Lancer Quartz Claims	Data Compilation - Pre-existing Data		
<a href="#">062308</a>	1993	Re-evaluation of Specialty-Metals and Rare Earth Resources, Ketza River Area, South-central Yukon	Property Evaluation - Other		
<a href="#">093036</a>	1991	Results of Sampling, Lancer 1-8 Claims	Rock - Geochemistry, Radiometric Survey - Ground Geophysics, Petrographic - Lab Work/Physical Studies		
<a href="#">091767</a>	1987	1987 Geophysical Assessment Report, High River/Quillo Property	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics		
<a href="#">090577</a>	1979	Rock Sampling Program, Nokluit Property	Rock - Geochemistry		
<a href="#">090270</a>	1977	Assessment Report on the Nokluit 1-8 Claims	Radiometric - Airborne Geophysics, Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry		
<a href="#">090182</a>	1976	Report on Geochemistry, Geology and Radiometric Survey	Silt - Geochemistry, Water - Geochemistry, Scintillometer - Ground Geophysics, Prospecting - Other		
<a href="#">017500</a>	1955	Geologic Report on the Kay Group of Claims and Upper White Creek	Bedrock Mapping - Geology		

### Related References

Number	Title	Page(s)	Reference Type	Document Type
<a href="#">ARMC014261</a>	Sketch plan of silver-lead-zinc vein - Locality "F" - Head of White Creek, Y.T.		Property File Collection	Geoscience Map (General)