Occurrence Details

Occurrence Number: 105H 017
Occurrence Name: East Arm
Occurrence Type: Hard-rock
Status: Showing
Date printed: 6/6/2025 3:39:33 AM

General Information

Aliases: Val
Deposit Type(s): Unknown
Location(s): 61°30'58" N - -129°26'35" W
NTS Mapsheet(s): 105H11
Location Comments: .5 Kilometres
Hand Samples Available: No
Last Reviewed:

Capsule

Work History

Staked as Val cl (YA46376) in Oct/79 by M. Conley. Restaked as Fran cl 1-38 by International Barytex Resources Ltd in Aug/94. The company carried out prospecting and geological mapping in 1995 and an airborne EM and magnetic survey in 1998.

Capsule Geology

The occurrence is located near the eastern shore of the East Arm of Frances Lake. The area marks the western edge of the Selwyn Basin, where siliclatic and carbonate deposition took place under different tectonic environments, from Late Proterozoic through Triassic.
Outcrop is scarce in the area however Fonseca (2001) of the Yukon Geology Program examined the general geology of the area while mapping the neighboring Matt Berry deposit (Minfile Occurrence #105H 021) located approximately 5 km to the south. The area is underlain by sandstone, limestone and shale that are intruded to the east by the mid-Cretaceous Mt Billings Batholith. The sedimentary sequence was orginally thought to be Silurian to Devonian in age. However, recent age dating by the Yukon Geology Program of galena collected from black phyllites at the Matt Berry deposit returned an Ordivician age suggesting that the sedimentary units in the area are coeval with Road River Group rocks. Also, examination of diamond drill core from the Matt Berry deposit revealed that the dark phyllites in the footwall of the Matt Berry zone are underlain by a strongly deformed, quartz-sericite augen schist of probable felsic volcanic protolith. The presence of the felsic volcanic rocks suggests that mineralization in the area, once thought to be mainly sedimentary-exhalative in nature may possess a strong volcanogenic component.
Only one outcrop area was found in the occurrence area. It consisted of thinly bedded, dark blue-grey hornfelsic phyllite hosting an oxidized quartz vein containing pyrite, pyrrhotite, galena, sphalerite and trace chalcopyrite. A 30 cm wide chip sample collected across the vein returned 0.06% Cu, 0.56% Pb, 0.01% Zn, 4.11 g/t Ag and 0.07 g/t Au. The airborne survey outlined 4 weak conductors on the Fran claims, one of which coincides with the mineralized quartz vein.

References

FONSECA, A., 2001. Felsic metavolcanic rocks at Matt Berry: A new deposit model. In Yukon Exploration and Geology 2000, D.S. Emond and L.H. Weston (eds.), Exploration and Geological services Division, Yukon, Indian and Northern affairs Canada, p. 311-318.

INTERNATIONAL BARYTEX RESOURCES LTD, Aug/95. Assessment Report #093322 by H.L. King.

INTERNATIONAL BARYTEX RESOURCES LTD, Apr/99. Assessment Report #093989 by H.L. King.

INTERNATIONAL BARYTEX RESOURCES LTD, May/2002. Web Site: www.barytex.com/.

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
093989	1998	Data Compilation and Interpretation of Airborne EM Anomalies	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics		
093322	1995	Geological Report on the Fran and Pat Claims	Bedrock Mapping - Geology, Prospecting - Other		
090943	1971	Matt Berry Joint Venture Frances Lake Yukon Sections Showing D. D. Holes 1 to 31	Research/Summarize - Pre-existing Data		
060952	1970	Report on a Geochemical Orientation and Stream Sediment Survey	Silt - Geochemistry, Bedrock Mapping - Geology, EM - Ground Geophysics, IP - Ground Geophysics, Magnetics - Ground Geophysics		

Related References

Number	Title	Page(s)	Reference Type	Document Type
BROCK000253	Mineral claim maps - Zinc and Barb claims		Property File Collection	Geoscience Map (General)