



Occurrence Details

Occurrence Number: 116B 099

Occurrence Name: Lala

Occurrence Type: Hard-rock

Status: Prospect

Date printed: 4/29/2025 7:44:25 PM

General Information

Secondary Commodities: copper

Deposit Type(s): Iron Oxide Breccias & Veins (Wernecke Breccias)

Location(s): 64°53'48" N - -139°11'44" W

NTS Mapsheet(s): 116B14

Location Comments: .5 Kilometres

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

Staked as Lala cl 1-60 (Y99987) in Aug/75 by the Blackstone Project group (Union Miniere Explorations and Mining Corporation Limited and Shell Canada Resources Limited). The group carried out geochem sampling and mapping in 1975 and 1976, and an IP survey in 1976.

In 1977 the group drilled 2 AQ diamond drill holes (187 m) over a low order copper soil anomaly on the Lala 5 and 8 claims.

Restaked Jul/92 as Olympic cl 1-168 (YB40925) by Placer Dome Inc, which performed a geochemical survey and geological mapping in Jun/93. The claim block was transferred to Major General Resources Ltd in May/94.

In 1996 Cominco Ltd optioned the claims, cut a new 300m spaced grid and conducted induced polarization and ground magnetics surveys. The company also completed regional geological mapping and contour soil sampling programs. At the end of the field season Cominco did not exercise the option and the claims were returned to Major General.

In Jun/96, High Sense Geophysics Ltd under contract to Equity Engineering Limited flew a regional, helicopter borne, magnetic and radiometric survey over most of the Coal Creek Inlier.

In Sep/96 Major General staked Olympic cl 169-197 (YB88759).

In Jun/97 Major General staked Europa cl 1-39 (YC04416) to the south. During the 1997 field season the company carried out geological mapping, ground magnetics and gradient IP geophysical surveys and drilled 11 diamond drill holes (2 672 m).

Capsule Geology

The claims are located within the Coal Creek Inlier (CCI); an oval-shaped, east trending erosional window through Lower and Middle Paleozoic carbonate rocks of the Mackenzie Platform exposing three east trending, Middle Proterozoic successions: the Wernecke Supergroup, the Fifteenmile Assemblage, and the Harper Group (informal name). Also exposed within the CCI are two northeast trending belts along which exist the mineralized breccia bodies. The breccia bodies in the two belts are collectively known as the Ogilvie Mountain Breccias. Lane and Godwin (1992) divided the breccia complexes into the 40 kilometer long Northern Breccia Belt (NBB) and the fifteen km long Southern Breccia Belt (SBB). The Olympic property is staked over portions of the NBB, which cuts the Wernecke Supergroup. The Helikian aged (1.2 to 1.5 Ga), 7 000m by 2 500m breccia complex consists of monolithic and heterolithic breccias which are occasionally cut by associated mafic dykes. Most of the breccias are matrix supported. The breccias appear to be related to the Monster fault; a steep south dipping thrust fault with a northeast trend. More extensive areas of brecciation occur where the Monster fault is crosscut by north and northeast trending normal faults in an area also underlain by a large magnetic high representing a buried intrusive source and/or a magnetic alteration halo. Equity Engineering's 1996 regional airborne geophysical survey appears to verify the existence of the cross cutting faults and indicates that they occur throughout the Coal Creek Inlier.

Copper mineralization occurs within the breccia bodies and occasionally within the crosscutting dikes. The best mineralization appears to be associated with the heterolithic hematitic and chloritic breccias.

Geochemical sampling located 10 copper anomalies up to 1 200 by 300 m in size and several single spot cobalt anomalies. Prospecting located seven areas of chalcopyrite and minor pyrite in and around the breccia bodies and five similar areas in the dolomite. Mineralization occurs in the breccia matrix and within fragments. Assays reported to date include: 7.0% over 4.0 m; 5.0% over 1.5m; and 0.54% over 5m. Major General also reported mineralized dioritic rocks returning 1.97% Cu over a 4m width (chip sample) and 21.4% Cu from a grab sample.

The property is thought to be similar in age and emplacement style to the Olympic Dam deposit in Australia. Major General contracted a consulting firm with first hand experience on Olympic Dam-type deposits to model the Olympic property mineralization. The firm reported the following analogies with the Olympic Dam deposit:

- 1) hematitic breccias with K rich alteration
- 2) high intensity magnetic source
- 3) brecciation is structurally controlled at the intersection of regional structures
- 4) grade increases with the intensity of brecciation and mineralization
- 5) genetic association with a similar mafic intrusive suite

Results of the magnetic survey suggest that a large buried intrusive body with narrow dykes underlies the central portion of the surveyed area. Mapping indicates that some of the weakly magnetic, mafic dykes on surfaced correspond well to linear magnetic highs.

The IP surveys outlined chargeability highs over the breccia bodies which the company believes are likely due to concentrations of oxide and sulphide mineralization such as specularite, pyrite, chalcopyrite and/or chalcocite as observed in mineralized surface exposures.

The diamond drill program targeted several chargeability anomalies coincident with the breccia complex and/or magnetic high. Drilling intersected areas of intense iron-oxide alteration with local occurrences of breccia hosted copper mineralization. Evidence of increased copper values was observed in three separate drill holes that returned copper values of 0.27% over 9.0 m (OL97-1), 0.20% over 6.0 m (OL97-8) and 0.12% over 2.8 m (OL97-3).

According to Major General these zones are considered important as they are located proximal to a large northeast trending graben structure. Drilling was concentrated on the interpreted down-faulted block and the company believes that it has intersected the upper portions of an Olympic Dam type setting.

References

COMINCO LTD, Sep/96. Assessment Report #093542 by A. Scott.

ETHERIDGE HENLEY WILLIAMS & HIGH SENSE GEOPHYSICS LIMITED, Feb/97. Assessment Report #093600 by Allen Duffy et al.

GEORGE CROSS NEWS LETTER, 30 Nov/95, 4 Sep/96, 7 Oct/96.

LANE, R.A., AND GODWIN, C.I., 1992. Geology of the Ogilvie Mountains Breccias, Coal Creek Inlier (NTS 116B/11,13,14), Yukon Territory. Exploration and Geological Services Division, DIAND, Open File 1992-1.

MAJOR GENERAL RESOURCES LTD, Jun/9. Assessment Report #093130 by G. Shevchenko.

MAJOR GENERAL RESOURCES LTD, Jan/98. Assessment Report #093694 by S. Butler and L. Lebel.

MAJOR GENERAL RESOURCES LTD, Feb/98. Assessment Report #093700 by S. Butler and D. Gill.

MAJOR GENERAL RESOURCES LTD, Oct/99. Web Site: www.majorgeneral.com

MINERAL INDUSTRY REPORT 1976, p. 144.

MINERAL INDUSTRY REPORT 1977, p. 56.

UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED, Oct/76. Assessment Report #090139 by C.V. Dyson.

UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED, Aug/77. Assessment Reports #090217 C.V. Dyson.

UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED, Sep/77. Assessment Report #091363 by C.V. Dyson.

YUKON EXPLORATION AND GEOLOGY 1996, p. 22, 31. 1997, p. 22-23, 36, 38.

Work History

Date	Work Type	Comment
12/31/1997	Drilling	Eleven holes, 2,672 m.
12/31/1997	Geology	
12/31/1997	Airborne Geophysics	Also magnetic survey over entire region.
12/31/1996	Geology	
12/31/1996	Geochemistry	Contour sampling.
12/31/1996	Ground Geophysics	Also magnetic survey.
12/31/1993	Geology	
12/31/1993	Geochemistry	
12/31/1993	Other	
12/31/1977	Drilling	Two holes, 217.9 m.
12/31/1976	Geology	
12/31/1976	Ground Geophysics	
12/31/1975	Geology	
12/31/1975	Geochemistry	
12/31/1975	Other	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
093694	1997	Geology and Geophysics Report on the OLYMPIC Property	Detailed Bedrock Mapping - Geology, IP - Ground Geophysics, Magnetics - Ground Geophysics, Line Cutting - Other		
093700	1997	Olympic Property 1997 Diamond Drilling Report	Diamond - Drilling, Drill Core - Geochemistry, Detailed Bedrock Mapping - Geology, IP - Ground Geophysics, Magnetics - Ground Geophysics	11	2672.30
093542	1996	Logistical Report Induced Polarization/Resitivity and Magnetometer Surveys Olympic Property	IP - Ground Geophysics, Magnetics - Ground Geophysics		
093297	1994	1994 Geological Report on the ROB 1-24 Claims	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Prospecting - Other		
093103	1992	Geological and Geochemical Surveys on the OLYMPIC 1-168 Claims	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Petrographic - Lab Work/Physical Studies, Prospecting - Other, Data Compilation - Pre-existing Data		
091363	1977	Diamond Drilling Program on the LALA Mineral Claims	Diamond - Drilling, Drill Core - Geochemistry	2	187.45
090139	1976	Geochemical Soil survey on the LALA 1-60 Mineral Claims	Soil - Geochemistry, Line Cutting - Other		
090217	1976	Geological Mapping and Prospecting Survey on the LALA 1-60 Mineral Claims	Bedrock Mapping - Geology, Prospecting - Other		

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC006779	Notes - Rob Uranium property		Property File Collection	Miscellaneous Company Documents
ARMC016783	Geochemical map - 116B/14		Property File Collection	Geochemical Map

Drill core at YGS core library					
Number	Property	Year Drilled	Core Size	Photos	Data
OLY-07-01	Olympic	2007	HQ-NQ	8	3
LALA-77-1	Olympic	1977	AQ	8	1
LALA-77-2	Olympic	1977	AQ	4	1