



Occurrence Details

Occurrence Number: 105J 003

Occurrence Name: Pike

Occurrence Type: Hard-rock

Status: Deposit

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General Information

Primary Commodities: copper, silver

Secondary Commodities: gold, lead, zinc

Deposit Type(s): Vein Cu+/-Ag Quartz

Location(s): 62°10'1" N - 130°41'42" W

NTS Mapsheet(s): 105J02

Location Comments: .5 Kilometres

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

Staked as Pike cl 1-76 and various fractions (Y13149) between Jul/66 and Nov/66 by Atlas Exploration Ltd following airborne magnetic and electromagnetic surveying. Atlas carried out prospecting, trenching, geochemical (silt and soil) sampling and geological mapping in 1966 and 1967. One packsack hole (24 m) was drilled in 1996 and a tote road was constructed to the property in 1967. Fringe staking to the northwest included the Cree and Star cl (Y16250) by A. Racicot and the Oxo cl (Y16210) by Napoli Exploration Ltd. Racicot optioned his claims to Hecla, and preliminary surveys were conducted by Hecla and Napoli in 1967 with negative results.

The property was later transferred to Atsui Mining Corp Ltd and the Atlas interest was transferred to Cima Resources Ltd in 1974. Atsui performed limited trenching in 1977; Craigmont Mines Ltd carried out mapping under an option in 1978; and Cima performed linecutting in 1980. Atsui and Cima carried out geochemical sampling, geological mapping and drilled 3 holes (280 m) in 1981. Canamax Resources Ltd tied on Pik cl 1-16 (YA91393) to the south in Aug/86.

Restaked as Anky cl 1-32 (YB15618) in Mar/89 by Noranda Exploration Ltd, which carried out soil sampling, hand trenching and some geological mapping.

Restaked as Pike cl 1-6 (YB87183) by P. Risby in Aug/96 and was examined by Hastings Management Corp in Sep/96. Risby staked Pike cl 7-129 (YB87488) in Oct/96 and the claims were examined by Teck Mining Corp in Jun/97, by Viceroy International Exploration in Jul/97, by Homestake Canada in Aug/98 and Risby in Aug/99. Geochemical sampling and prospecting was carried out during the course of these various property examinations.

Capsule Geology

Copper and silver occur in two subparallel quartz-feldspar porphyry dikes associated with a small mid-Cretaceous stock of biotite granite. The granite intrudes a thrust fault-bounded succession of tightly folded Cambro-Ordovician quartzite, chert, slate and limestone.

Two mineralized zones are outlined by continuous lead and copper soil anomalies and by geophysical anomalies and discontinuous gossanous kill zones. Zone 1 is 400 m in length, and may be a faulted offset of Zone 2, which is 2 km long and lies to the east. Pyrrhotite, arsenopyrite, chalcopyrite, tetrahedrite, galena, and sphalerite with lesser enstatite and bornite occur in both zones as disseminations and veinlets accompanied by hydrothermal alteration and silicification in the dikes and wallrocks. Arsenopyrite is the main sulphide mineral in Zone 1, while Zone 2 consists mainly of sphalerite and galena, especially at the east end.

Trenching suggests that mineralization is erratically distributed over widths up to 120 m. Zone 1 trench samples averaged 0.61% Cu and 82 g/t, Ag while Zone 2 assays ranged up to 8% combined Pb-Zn and 340 g/t Ag.

The 1981 drilling returned disappointing results with the best intersection assaying 1.06% Cu, 0.39% Pb, 0.80% Zn, 113 g/t Ag and 0.3 g/t Au across 1.5 m. In late 1981, Cima calculated the tonnage potential as 300,000 tonnes grading 0.5% Cu and 62.2 g/t Ag over a 200 m strike length. Samples analysed for gold in 1990 contained up to 760 ppb Au. Sampling during the 1996-1999 period produced results consistent with those obtained during previous investigations for silver, copper, lead and zinc. Viceroy collected samples at 50 m intervals to test for potential gold enriched sections, within the mineralized zones, with disappointing results.

Work History

Date	Work Type	Comment
12/31/1999	Other	
12/31/1999	Other	
12/31/1998	Other	
12/31/1998	Other	
12/31/1997	Other	
12/31/1997	Other	
12/31/1996	Other	
12/31/1996	Other	
12/31/1989	Geology	
12/31/1989	Geochemistry	
12/31/1989	Trenching	

12/31/1981	Drilling	3 holes, 280 m
12/31/1981	Geology	
12/31/1981	Other	
12/31/1980	Other	
12/31/1978	Geology	
12/31/1977	Trenching	
12/31/1967	Geology	
12/31/1967	Geochemistry	
12/31/1966	Drilling	1 hole, 24 m
12/31/1966	Trenching	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
095321	2000	Assessment Report on the Pike Claims	Rock - Geochemistry, Detailed Bedrock Mapping - Geology		
094186	1999	Assessment Report on the Pike Claims	Rock - Geochemistry, Hand - Trenching		
093990	1998	Assessment Report on the Pike Claims	Rock - Geochemistry, Property Evaluation - Other		
093776	1997	Assessment Report on the Pike Claims	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Property Evaluation - Other		
092845	1989	Geological and Geochemical Report on the Anky 1-32 Claims	Rock - Geochemistry, Soil - Geochemistry, Hand - Trenching		
062087	1981	Report on Proposed 1981 Exploration Program	Diamond - Drilling, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Line Cutting - Other		
061860	1979	Report on Proposed Exploration Program Pike and Mica Properties	Research/Summarize - Pre-existing Data		
060702	1967	Geological Report on the Pike Mineral Claim Group	Soil - Geochemistry, Detailed Bedrock Mapping - Geology, EM - Ground Geophysics, Magnetics - Ground Geophysics, Line Cutting - Other		
019808	1967	Evaluation and Recommendations Geochemical and Geophysical Surveys, Pay Mineral Claims	Diamond - Drilling, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, EM - Ground Geophysics, Magnetics - Ground Geophysics, Line Cutting - Other, Hand - Trenching	10	96.90
019806	1966	Geophysical Surveys Pike Mineral Claim Group	EM - Ground Geophysics, IP - Ground Geophysics, Magnetics - Ground Geophysics		
018922	1966	Geophysical Surveys Pike Mineral Claim Group	EM - Ground Geophysics, Magnetics - Ground Geophysics		
092894	1966	Pike 1-24 Claims Survey Preliminary Stadia Study	Geotechnical - Studies		

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC007552	Map - Pike Lake copper district		Property File Collection	Geoscience Map (General)
ARMC016670	Geologic, geochemical showings, assay and claim group map sheet of 105J/2 - Pike Lake		Property File Collection	Geoscience Map (General)
ARMC013806	Report on geology of Sheldon region between Pelly Lakes and McEvoy Lake		Property File Collection	Report
ARMC013804	Report on Sheldon region claim groups (excluding Pay group)		Property File Collection	Report
ARMC013811	Sheldon project report - Exploration manager's copy		Property File Collection	Report
ARMC016669	Geochemical results map - 105J/2 - Pike Lake		Property File Collection	Geochemical Map
ARMC016668	Geochemical sample stations map - 105J/2 - Pike Lake		Property File Collection	Geochemical Map
ARMC020534	Field notebook - EM survey results - Pike grid (cont'd)		Property File Collection	Miscellaneous Company Documents
ARMC020535	Field notebook - Pike EM Reconnaissance		Property File Collection	Miscellaneous Company Documents
ARMC020536	Field notebook - Magnetic survey - Pike group		Property File Collection	Miscellaneous Company Documents
ARMC020537	Field notebook - EM survey - Pike group		Property File Collection	Miscellaneous Company Documents
ARMC020538	Field notebook - Magnetometer - Pike extension		Property File Collection	Miscellaneous Company Documents
ARMC020539	Field notebook - Pike EM - Mag field B - 'C' grid		Property File Collection	Miscellaneous Company Documents
ARMC020540	Field notebook - Pike EM		Property File Collection	Miscellaneous Company Documents
ARMC020541	Field notebook - Pike mag		Property File Collection	Miscellaneous Company Documents
ARMC018707	Field map - 105J/2		Property File Collection	Geoscience Map (General)
ARMC020549	Field notebook - Grid geology - Pike claims - Traffic Mountain area		Property File Collection	Miscellaneous Company Documents
ARMC013658	Assay results and geology map - Pike claim group		Property File Collection	Assays
ARMC013327	Claim group location map - Sheldon region - Figure 1		Property File Collection	Geoscience Map (General)

