



Occurrence Details

Occurrence Number: 105N 003

Occurrence Name: Plata

Occurrence Type: Hard-rock

Status: Deposit

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General Information

Primary Commodities: gold, lead, silver

Secondary Commodities: cobalt, copper, zinc

Deposit Type(s): Vein Polymetallic Ag-Pb-Zn+/-Au

Location(s): 63°35'9" N - 132°1'55" W

NTS Mapsheet(s): 105N09

Location Comments: 1 Kilometres

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

Staked as Greg cl (Y32767) in Jul/69 by Atlas Exploration Ltd for the Hess Project (Atlas, Quebec Cartier Mining Company, Phillip Brothers (Canada) Ltd) which carried out prospecting and geochemical sampling later in the year.

Restaked as Plata cl 1-280 (Y68588) and Inca cl 1-32 (Y68955) in August and Sep/72 following detailed prospecting by a joint venture between Dynasty Exploration Ltd (80%) and Atlas Exploration Ltd (20%), which carried out grid soil sampling, geological mapping, geophysical test surveying, hand trenching and drilled 6 holes (400.8 m) in 1972; construction of a winter road, a bush airstrip 10 km to the south, and 25 km of tote road on the claims plus grid soil sampling, detailed mapping and bulldozer trenching in 1973; staked Plata cl 281-288 (Y85186) in Sep/73; and further trenching in 1974. Atlas changed its name to Cima Resources Ltd in 1974 and Dynasty changed to Cyprus Anvil Mining Corporation in 1975.

A. Harman and Z. Lavoie, under an agreement with Cyprus Anvil, mined and shipped about 81.6 tonnes of hand cobbled ore to the Trail smelter in 1976. The Spis cl (YA42179) was tied on to the northeast in Aug/80 by the Argent Project (Rio Alto Exploration Ltd, Radex Resources Ltd, ABM Mining Group Inc, Ebony Resources Ltd and Welcome North Mines Ltd), which carried out geochemical soil sampling later in the year.

Control of the Plata property was acquired by Dome Petroleum Ltd in 1981. In 1983, the property was sold to Dawson Eldorado Gold Exploration Ltd and Silvercrest Resources Corporation, which mined 450 tonnes from open cuts and shipped it to a smelter. Most of the 1 360 tonnes mined and smelted in 1984 was mined from the Plata 2 Vein, while the remainder came from the nearby Inca vein system.

Between Nov/84 and Feb/85, Dawson Eldorado drove a 260 m crosscut about 100 m vertically below the 2 Vein open pit in a joint venture with AVF Group (Primary Exploration Ltd and Royal Bank Venture Capital Ltd) and drilled 13 holes in 1985. Dawson Eldorado changed its name to Dawson Eldorado Mines Ltd in 1985 and optioned the property to Pacific Trans-Ocean Resources Ltd, which drilled holes (670 m) on the #4 Vein and mined 74 tonnes from the Plata #6 Vein and 40 tonnes from the Plata #4 Vein in 1987. Dawson Eldorado transferred the Plata claims to Gold City Resources Inc in Aug/91. Gold City transferred the Plata claims to Avanti Minerals Ltd in Aug/93 and in Dec/94 Avanti Minerals Ltd transferred the Plata claims to Avanti Minerals (1994) Inc.

A private company, Big Blackfoot Mine Inc, subsequently acquired control of the claims and optioned a 70% interest in the property to Yukon Gold Corporation in Jul/96 and drilled 6 holes (750 m) later in the year. Big Blackfoot Resources Ltd acquired Big Blackfoot Mines in Oct/96. Yukon Gold changed its name to Alliance Pacific Gold Corporation in Jun/97, which drilled 16 percussion holes (200 m) over the following winter. The company later changed its name to International Alliance Resources, before dropping the option in Dec/2000.

Big Blackfoot then optioned the property to Copper Ridge Explorations Inc in May/2001 and after Copper Ridge dropped the option, to First Star Innovations Inc. in Apr/2003.

Strategic Metals acquired the property in 2007. Strategic Metals flew and airborne magnetic and VTEM survey over the entire property in 2007. Rockhaven Resources Ltd. bought the Plata and Inca properties from Strategic Metals in exchange for stock in Rockhaven's company in 2008. Rockhaven's 2008 exploration program included diamond drilling (4113 m in 51 holes), excavator trenching and a VTEM geophysical survey primarily targeting the Plata thrust fault. Drilling expanded the area of known mineralization within the Plata thrust fault 500 m down-dip and 850 m along strike. A new surface showing of gold and silver rich material was also discovered through trenching.

Rockhaven's 2009 program consisted of excavator trenching and diamond drilling (346.6 m). The drilling tested an area between the P-3 and P-4 veins, located 300 m apart, which confirmed the continuity of mineralization between the two veins.

In March 2011, Silver Predator Corporation optioned the property from Rockhaven and drilled 2565.56 m in 17 holes. Seven holes were directed toward the P-6 Zone, five holes targeted the Aho Zone, four holes were directed toward the P-2 Zone, and one hole was collared at the P-12 Zone. Drilling at the P-6 Zone returned encouraging results, including 1655 g/t silver over 1.0 m, 846.5 g/t silver over 1.3 m and 699.0 g/t silver and 0.72 g/t Au over 1.53 m. Drill holes targeting the P-2 Zone yielded intercepts of up to 1060 g/t silver and 3.86% zinc over 0.87 m and 110 g/t silver and 39.77% zinc over 0.93 m. Silver Predator later dropped the option.

In October 2015, the Plata property was transferred back to Strategic Metals. In 2017, Strategic did some road upgrading at the site.

Capsule Geology

The more than 14 veins comprising the Plata occurrence occur over a 2 by 5 km area. Two types of veins are present, both hosted in fault or fracture zones cutting the structural fabric in Proterozoic and/or Lower Cambrian limestone, quartzite and shale and unconformably overlying Devonian shale and chert. The Plata 1,2,3,5 and 6 Veins, and many other minor occurrences, occupy NE or NW-striking fracture sets in the structural hanging wall of a major thrust fault. The mineralized veins consist of galena and sphalerite in a siderite gangue. Silver occurs in tetrahedrite-rich sections associated with galena. Silver to lead ratios are highly variable, ranging from 1:1 to 10:1 over short distances on a single vein.

Most of the exploration, development and production has been concentrated on a galena-rich section of the 2 Vein. This deposit occurs along the southwest-plunging contact between Late Proterozoic limestone and overlying Devonian shale. The exploration adit intersected the vein about 100 m below and some distance to the northeast of the mining bench. The adit and subsequent underground drilling intersected five weak vein zones mineralized with siderite and sphalerite.

The 4 Vein occupies a major gently southwest-dipping thrust fault that is associated with a 1 to 3 m wide quartz feldspar porphyry dyke of probable mid Cretaceous age. Mineralization consists of disseminated pyrite, arsenopyrite, tetrahedrite and other sulphosalts in a massive white quartz gangue. Lenses of massive pyrite-pyrrhotite-galena-sulphosalt are also present. Specimens of the latter material range up to 20.9 g/t Au and about 6800 g/t Ag.

The 1983 shipments, which were mined mainly from the 2 Vein and partly from material stockpiled in 1973 from 5 and 6 Veins, averaged 4 050 g/t Ag and 59.3% Pb. The 1984 shipments from the 2 Vein averaged 5656 g/t Ag and 70% Pb while the 1987 shipment graded about 6 900 g/t Ag. The 1976 shipment was mined from Veins 1, 22, 6 and reportedly averaged about 7 700 g/t Ag and 80% Pb.

Metallurgical testing showed the flotation of the galena-rich mineralization in the 2 Vein would produce a 92% recovery but that the complex Ag-Au ore in the 4 Vein was not amenable to flotation.

Drilling in 1996 on the 4 Vein and its downdip extension, intersected quartz-sulphide mineralization in hole Plata-2 that assayed 17.14 g/t Au and 4.5 g/t Ag over 2.1 m. Reserves for the 4 Vein in Nov/96 were reported as 453 592 tonnes grading 3.77 g/t Au, 376.71 g/t Ag and 10% combined Pb-Zn.

In 2009, one of two drill holes completed between the P3 and P4 veins returned an assay of 360.00 g/t Ag, 3.29 g/t Au, 1.98% Pb and 4.17% Zn over 1.64 m.

Various historical resource estimates are quoted in reports, probably from internal company reports, none of which are NI 43-101 compliant.

Work History

Date	Work Type	Comment
7/1/2020	Pre-existing Data	
7/1/2017	Development, Surface	
7/1/2011	Drilling	17 holes, 2,565.00 m
7/1/2011	Geochemistry	
7/1/2009	Geochemistry	
7/1/2009	Geochemistry	
7/1/2008	Airborne Geophysics	
7/1/2007	Airborne Geophysics	
7/1/2007	Studies	
7/1/2007	Remote Sensing	
7/1/2001	Geology	
7/1/1974	Development, Surface	
7/1/1974	Development, Surface	
7/1/1972	Geochemistry	
7/1/1968	Geochemistry	
7/1/1968	Geology	
7/1/1967	Geochemistry	
12/31/2009	Drilling	Two holes, 346.6 m.
12/31/2009	Trenching	
12/31/2008	Drilling	Fifty-one holes, 4,113 m.
12/31/2008	Ground Geophysics	VTEM survey.
12/31/2008	Trenching	
12/31/2007	Airborne Geophysics	Also VTEM survey.
12/31/1998	Drilling	Sixteen holes, 200 m.
12/31/1996	Drilling	Six holes, 750 m.
12/31/1987	Drilling	Fifteen holes, 670 m.
12/31/1987	Development, Underground	Shipped 114 t of ore.
12/31/1985	Drilling	Thirteen underground drill holes, 260 m.
12/31/1984	Development, Underground	Shipped 1,360 tonnes to smelter.
12/31/1983	Trenching	Shipped 450 t to smelter.
12/31/1976	Trenching	
12/31/1974	Trenching	
12/31/1973	Development, Surface	
12/31/1973	Geology	
12/31/1973	Geochemistry	
12/31/1973	Trenching	
12/31/1973	Development, Surface	Twenty-five km Tote road.
12/31/1972	Drilling	Six holes, 401 m.

12/31/1972	Geochemistry	
12/31/1972	Trenching	
12/31/1972	Other	
12/31/1969	Geochemistry	Also rock and silt sampling.
12/31/1969	Other	
12/13/1985	Development, Underground	Continued mining.
12/13/1972	Ground Geophysics	Horizontal Shootback method. Test survey.
12/1/1987	Lab Work/Physical Studies	
10/1/2021	Geochemistry	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
096200	2011	Assessment Report on the 2011 Diamond Drilling at the Plata Project	Diamond - Drilling	17	2565
095669	2009	Assessment Report Describing Diamond Drilling, Excavator Trenching, Geochemical Sampling and Prospecting at the Plata Project	Diamond - Drilling, Rock - Geochemistry, Soil - Geochemistry, Prospecting - Other, Backhoe - Trenching	2	346.55
095668	2008	Assessment Report Describing Diamond Drilling, Excavator Trenching, Geophysical Surveys, Geochemical Sampling, Prospecting and Water Surveys at the Plata Project	Magnetic - Airborne Geophysics, VTEM - Airborne Geophysics, Diamond - Drilling, Silt - Geochemistry, Soil - Geochemistry, Backhoe - Trenching	51	4113
095607	2007	Assessment Report Describing Geophysical Surveys, Geochemical Sampling, Prospecting and Water Surveying at the Plata Project	Magnetic - Airborne Geophysics, VTEM - Airborne Geophysics, Environmental Assessment/Impact - Studies, Photogrammatic - Studies		
091705	1976	Bulk Sampling and Preliminary Economic Evaluation of the Plata and Inca Mineral Claim Groups Located in Bostock Range, Hess Mountains Northeast, Yukon Territory	Bulk Sample - Lab Work/Physical Studies, Preliminary Economic Assessment - Studies		
061153	1974	Application For Mineral Assistance Grant Plata Mineral Claims Group	Air Strip - Development, Surface, Winter Road - Development, Surface, Rock - Geochemistry, Detailed Bedrock Mapping - Geology, Mechanical - Trenching		
061152	1973	Application for Northern Mineral Assistance Grant Proposed Exploration Plata Mineral Claims	Orthophoto - Airphotography, Diamond - Drilling, Soil - Geochemistry, Line Cutting - Other, Handblast - Trenching	6	400.80
019829	1973	Northern Mineral Assistance Grant Geochemical, Geological, Cat Trenching and Engineering Evaluation Report on the Plata Group	Soil - Geochemistry, Regional Surficial Mapping - Geology, Line Cutting - Other, Hydraulic - Trenching		
019828	1972	Geological, Geochemical, Geophysical, Hand Trenching and Diamond Drilling Report on the Plata Group	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Regional Bedrock Mapping - Geology, EM - Ground Geophysics, Line Cutting - Other, Hand - Trenching	6	400.80
061864	1972	Application For Northern Mineral Assistance Grant Plata Mineral Claim Group	Rock - Geochemistry, Detailed Bedrock Mapping - Geology		
019809	1968	Hess Area Project Proposed Property Follow-Up 1968 Field Season	Research/Summarize - Pre-existing Data		
019033	1968	Atlas Explorations Limited Project Report 1968 Hess River Area	Silt - Geochemistry, Soil - Geochemistry, Regional Bedrock Mapping - Geology		
018947	1967	Hess River Project Report	Rock - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology		
019032	1967	Hess River Project Report	Data Compilation - Pre-existing Data		

Related References

Number	Title	Page(s)	Reference Type	Document Type
YEG1996	Yukon Exploration and Geology 1996	25	Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Annual Report
1986GeoVol1_12	Geology of the Plata-Inca gold-silver veins, Yukon		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Annual Report Paper
ARMC016486	Geological overlay map - 105N/9		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC016487	Geochemical overlay map - 105N/9		Property File Collection	Geochemical Map
ARMC018079	Geochemical results and claim group map of sheet 105N/9		Property File Collection	Geochemical Map
ARMC018080	Geochemical results map of 105N/9		Property File Collection	Geochemical Map
ARMC018081	Geochemical field sheet map showing key map of Plata group as well as additional			

ARMC01-8087	Geochemical field map showing key map of Plata group as well as additional notations		Property File Collection	Geochemical Map
ARMC01-8088	Geochemical field map - 105N/9		Property File Collection	Geochemical Map
ARMC01-8091	Geological field map of 105N/9		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC01-8092	Geological field map of 105N/9		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC01-8094	Geological field map of 105N/9		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC01-8097	Geochemical field map - Mt. Aho area		Property File Collection	Geochemical Map
ARMC01-7711	Assay results and geochem results - 1972 - Plata project		Property File Collection	Assays
ARMC01-8128	Geology field sheet - 105N/9		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC01-8131	Air photo overlays and stream sediment data sheets - A12321-77, 78, 74, 76, 71, 45, 72, A12251-404, 403, 406, 431, 432, 321, 322, 429, 405, A12260-48, 47		Property File Collection	Geoscience Map (General)
BROCK0-00076	Scatter diagram and assay plan - Ag:Pb ratios - Plata project		Property File Collection	Geoscience Map (General)
01-073	Plata Project, Report on 2001 Field Program, Mayo Mining District		Yukon Government: Energy, Mines and Resources	YMEP Report

Resource/Reserve

Year	Zone	Type	Commodity	Grade	Tonnage	Amount	Reported Amount	43-101 Compliant	Cut-off
1996	PLATA - 4 VEIN (OPEN PIT)	Historical Estimate	gold	3.77 g/t	453,592		No	No	Unknown
Reported figure indicates proven and probable reserves but figures are not National Instrument 43-101 compliant. Reported for historical purposes.; From Canadian Mines Handbook 2002-03, p. 63 listed under Big Blackfoot Resources Ltd. Also reported 10% combined lead zinc but not calculations explaining breakdown of minerals reported. Uncertain where original figures came from.									
1996	PLATA - 4 VEIN (OPEN PIT)	Historical Estimate	silver	377 g/t	453,592		No	No	Unknown
Reported figure indicates proven and probable reserves but figures are not National Instrument 43-101 compliant. Reported for historical purposes.; From Canadian Mines Handbook 2002-03, p. 63 listed under Big Blackfoot Resources Ltd. Also reported 10% combined lead zinc but not calculations explaining breakdown of minerals reported. Uncertain where original figures came from.									
1996	Plata-P4? (Open pit)	Historical Estimate	silver	294.85 g/t	206,000		No	No	unknown
Lueck and Pudar, 1996, reported in Carlson and Fields, 2001.									
1996	Plata- P4? (Open Pit)	Historical Estimate	gold	3.63 g/t	206,000		No	No	Unknown
Lueck and Pudar, 1996, reported in Carlson and Fields, 2001.									
1987	Plata Thrust (Undetermined)	Historical Estimate	silver	340 g/t	450,000		No	No	unknown
YEG 1996, p.25. Probably taken from Van Angeren, 1986?									
1987	Plata Thrust (Undetermined)	Historical Estimate	gold	8 g/t	450,000		No	No	unknown
YEG 1996, p.25. Probably taken from Van Angeren, 1986?									

Production

Date	Commodity	Amount	Comment
1/1/1976	Ag	9020 kilograms	intermittent high-grade mining since 1976 to 1984, 290,000oz Ag in 2041 tonnes of hand-sorted material

Drill core at YGS core library

Number	Property	Year Drilled	Core Size	Photos	Data
PL-08-16	Plata	2008	HQ	0	2
PL-08-17	Plata	2008	HQ	0	2
PL-08-19	Plata	2008	HQ	0	2
PL-08-20	Plata	2008	NQ2	0	2
PL-08-25	Plata	2008	NQ2	0	2
PL-08-33	Plata	2008	NQ2	0	2
PL-08-37	Plata	2008	NQ2	0	2
PL-08-47	Plata	2008	HQ	0	1

