



Occurrence Details

Occurrence Number: 106D 007

Occurrence Name: Ocelot

Occurrence Type: Hard-rock

Status: Prospect

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General Information

Secondary Commodities: indium, lead, silver, zinc

Aliases: Scougale, El, Rau, Rackla

Deposit Type(s): Manto Polymetallic Ag-Pb-Zn

Location(s): 64°16'20.1" N - -134°39'.18" W

NTS Mapsheet(s): 106D07

Location Comments: Coordinates supplied by ATAC 2019

Hand Samples Available: No

Last Reviewed: Sep 17, 2013

Capsule

Work History

Staked as Jim cl 1-4 (Y26618) in July 1968 by M. Zulps for Zulco Exploration Ltd.

Re-staked as EL cl 1-40 (YA14059) in November 1976 by the Prism Joint Venture (Prism Resources Ltd., Placer Development Ltd., Granby Mining Corporation, Chieftain Development Company Ltd. and Craigmont Mines Ltd.).

Prism added EL cl 41-70 (YA15576) in July 1977 to cover open ground between these claims and the Dee claims (MINFILE occurrence 106D 008) located to the south. The original EL claims (i.e. 1-40) were explored with geological mapping, grid soil sampling and several EM geophysical test lines later in the summer.

Re-staked within R cl 105 -1295 (YC68334) in July 2008 by ATAC Resources Ltd as part of the Rau Trend within the larger Rackla Gold Project. During the summer of 2008, the company established a small soil sampling grid over the occurrence (i.e. gossan) as well as performed a property-wide helicopter-borne magnetic and VTEM survey. The soil sampling program was part of a larger property wide program carried out by the company. In 2009, ATAC prospected and collected rock samples from the occurrence area.

In early 2010, ATAC Resources flew an airborne ZTEM/magnetic survey over much of the property. The company followed up with ground induced polarization (IP) and gravity geophysical programs, as well as detailed soil sampling. Areas located northwest of the occurrence were explored with contour soil samples. Later in the summer the company collared 5 diamond drill holes (1,133.46 m) northwest of the gossan near surface mineralization.

In 2011, ATAC Resources carried out silt sampling and follow-up grid soil sampling north and northwest of the occurrence area. The company used the results from these surveys and previously obtained geophysical surveys to guide a 19 hole diamond drill (3,784.75 m) program.

During 2012, ATAC Resources completed soil sampling, prospecting and ground-based VLF-EM, magnetics and gravity geophysical surveys.

Regional & Property Geology

The occurrence lies with the Rau Trend between the Dawson and Kathleen Lakes thrusts, which form part of a band of regional-scale thrust faults that imbricate rocks of Mackenzie Platform and Selwyn Basin. The occurrence area lies on the western margin of ancestral North America and is underlain primarily by shallow water carbonate and clastic sediment rocks of the Mid-Proterozoic to Paleozoic Mackenzie Platform and the Neo-Proterozoic to Paleozoic, regionally metamorphosed Selwyn Basin clastic rocks. These rocks formed a fault-bounded sediment package which was thrust northeasterly during Jurassic to Cretaceous times by the Dawson and Kathleen Lakes thrust faults onto predominantly Proterozoic rocks. Following thrust faulting, Late Cretaceous (94-90 million years) intermediate to felsic plutons of the Tombstone Suite were emplaced (Mortensen et al., 2000). A second compressional orogenic event around 65 million years saw the emplacement of felsic intrusives assigned to the McQuesten Suite.

Other than the immediate area surrounding the Tiger deposit (MINFILE occurrence 106D 098), the occurrence area has not been geologically mapped in detail. ATAC Resources (AR 096936) has mapped 3 main units in the area comprising the Rau Trend:

1. Cambrian to Ordovician massive, grey dolostone,
2. Ordovician and/or Silurian bedded, grey and buff silty limestone and massive white limestone, and
3. Silurian to Devonian thick, bedded dolostone and limestone.

The company has assigned all three units to the Cambrian to Devonian Bouvette Formation. Colpron's 2013 geological map generally supports this interpretation; however it uses slightly different age dates and doesn't include the oldest rocks (Cambrian to Ordovician dolostones) within the Bouvette formation.

Thin volcanoclastic horizons assigned to the Ordovician Marmot Formation are interbedded with the Ordovician and/or Silurian limestones and a narrow sliver of Mid-Proterozoic Fifteen Mile Group dolostone underlies the Bouvette Formation rocks to the southwest. Devonian and Mississippian Earn Group comprised of black shale and chert bounds the Bouvette Formation to the south east and north in the southern half of the Rau Trend property.

The Ocelot showing occurs within the favourable Bouvette Formation carbonate sequence and lies within a regional structural corridor that hosts the Tiger gold deposit in the same rock units, 15 km to the southeast. The showing is identified by a natural spring gossan (the original EL claim gossan) of dolomite rubble cemented by iron oxides and a vegetation kill zone measuring approximately 300 by 150 m. Moderately to strongly anomalous lead and zinc-in-soil values form a 2.3 by 1.0 km intermittent linear shaped anomaly that trends westerly from the gossan.

Mineralization & Results

Mineralization at the Ocelot occurrence consists of medium to coarse grained pyrite and varying concentrations of low iron sphalerite and medium to coarse grained galena ± tetrahedrite. Sulphide mineralization occurs within a steeply dipping northeast trending fault that cuts an extensive dolomitized limestone sequence with narrow volcanoclastic beds locally exhibiting structural and fluid altered breccias. ATAC Resources reports that the types of mineralization that most closely match the available data are carbonate replacement deposits or mantos.

The original EL claims were staked on a zinc silt anomaly outlined by the Geological Survey of Canada's Operation Keno in 1964. Soil sampling outlined 250 m long by 100 m wide zinc anomaly roughly coincident with a gossan. Only one sample within the gossan returned anomalous lead (800 ppm) and silver (3.8 ppm) values. Soil pits dug on the gossan all returned an initial increase in zinc value with depth and then a drop off in values. Test EM geophysical lines outlined a flat lying structure such as an unconformity or fault. The joint venture concluded that the gossan was likely related to a water course along a permeable zone which may be an unconformity or fault.

ATAC Resources initially staked the R claims in 2008 to protect favourable stratigraphy trending northwest from the recently discovered Tiger deposit. Soil sampling and geophysical surveys outlined a number of geochemical anomalies coincident with gravity, IP, ZTEM airborne EM anomalies and a low level magnetic anomaly. Follow-up prospecting of one of the coincident geochemical/geophysical anomalies in a largely overburden covered area near the original gossan identified a small vegetation kill zone where abundant boulders and cobbles of angular silver-lead-zinc massive sulphide and oxide mineralization occur. Surface samples collected from the Ocelot discovery area returned up to 2 810 g/t Ag, 80.55% Pb, 40.5% Zn and 68.10 g/t indium.

Drilling completed in 2010 and 2011 by ATAC Resources at the Ocelot occurrence has identified mineralization over a 230 m strike length and to a depth of 150 m. Mineralization remains open down dip and possibly along strike to the northeast. The 2010 drilling program was reconnaissance in nature and tested geophysical anomalies northwest of the surface discovery showings. Four of the five holes were successively completed. Only hole OC-10-01 intersected significant mineralization, returning an average of 360 g/t Ag, 9.83% Pb, 25.06% Zn and 48.2 g/t indium over 4.23 m.

The first 5 diamond drill holes collared in 2011 were located near the edge of the gossan at the east end of the lead and zinc anomaly. Four of the five holes intersected significant mineralization with hole OC-11-09 returning the best grade interval. The hole returned 41.72 m grading 145.43 g/t Ag, 3.36% Pb and 11.65% Zn. Seven of the remaining 14 diamond drill holes returned significant results. Hole OC-11-11 returned 37.91 m grading 188.07 g/t Ag, 8.69% Pb and 6.06% Zn, including a 14.82 m intersection which returned 400.18 g/t Ag, 20.44% Pb and 9.50% Zn. Other significant results include hole OC-11-14 which returned 35.64 m grading 46.43 g/t Ag, 1.36% Pb and 8.12% Zn and hole OC-11-16 which returned 35.57 m grading 56.53 g/t Ag, 1.63% Pb and 9.73% Zn.

Prospecting at the Ocelot occurrence in 2012 resulted in the discovery of a new small high grade Ag-Pb-Zn showing northwest of the main Ocelot drill area, dominantly noted as galena with coarse-grained barite crystals. Samples taken from this area returned up to 2960 g/t Ag, 60.3% Pb, 45.8% Zn and 1.0% Sn.

Work History

Date	Work Type	Comment
12/31/1977	Geology	
12/31/1977	Geochemistry	Grid based.
12/31/1977	Ground Geophysics	Several test lines completed.
12/13/2012	Ground Geophysics	
12/13/2012	Geochemistry	
12/13/2012	Ground Geophysics	And VLF-EM.
12/13/2012	Other	
12/13/2011	Drilling	Nineteen holes (3,784.75 m).
12/13/2011	Geochemistry	Follow-up sampling.
12/13/2011	Geochemistry	All streams in area sampled.
12/13/2010	Airborne Geophysics	Also magnetics collected.
12/13/2010	Drilling	Five drill holes collared (1,133.46 m), four holes completed.
12/13/2010	Geochemistry	Detailed soil sampling over occurrence area, contour sampling to the northwest.
12/13/2010	Ground Geophysics	Also gravity survey run.
12/13/2009	Geochemistry	Samples collected northwest of gossan in kill zone.
12/13/2009	Other	
12/13/2008	Airborne Geophysics	
12/13/2008	Geochemistry	Small soil sampling grid established over gossan.
12/13/2008	Airborne Geophysics	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
096939	2015	Technical Report and Preliminary Economic Assessment for the Tiger Deposit, Rackla Gold Project	VTEM - Airborne Geophysics, ZTEM - Airborne Geophysics, Mill/Concentrator Construction - Development, Surface, Tailings Pond - Development, Surface, Diamond - Drilling, Rock - Geochemistry, Soil - Geochemistry, Gravity Survey - Ground Geophysics, IP - Ground Geophysics, Resistivity - Ground Geophysics, Metallurgical Tests - Lab Work/Physical Studies, Data Compilation - Pre-existing Data, Data Compilation - Pre-existing Data, Environmental Assessment/Impact - Studies, Preliminary Economic Assessment - Studies, Resource Estimate - Studies	150	26846.60
096732	2014	Assessment Report Describing Metallurgical Test Pits, Metallurgical Auger Drilling, Geotechnical Auger Drilling, Geotechnical Study, Environmental Baseline Studies, Heritage Evaluation, and Water Quality and Climate Monitoring Surveys	Auger - Drilling, Water - Geochemistry, Metallurgical Tests - Lab Work/Physical Studies, Environmental Assessment/Impact - Studies, Geotechnical - Studies, Heritage/Archeological - Studies	9	96.77
096607	2012	Assessment Report Describing Metallurgical Testing, Wildlife Monitoring, Heritage Evaluation, and Water Quality and Climate Monitoring Surveys	Water - Geochemistry, Metallurgical Tests - Lab Work/Physical Studies, Environmental Assessment/Impact - Studies, Heritage/Archeological - Studies		
096597	2012	Assessment Report Describing Geochemical Sampling, Auger Sampling, Geological Mapping, Diamond Drilling, and Geophysical Surveys	Air Strip - Development, Surface, Auger - Drilling, Diamond - Drilling, Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, EM - Ground Geophysics, Gravity Survey - Ground Geophysics, Magnetics - Ground Geophysics,	172	37340.37

			Prospecting - Other, Hand - Trenching		
095938	2011	Assessment Report Describing Geochemical Sampling, Geological Mapping and Remote Sensing Surveys at the Rackla Gold Property	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, LIDAR - Remote Sensing, Heritage/Archeological - Studies		
096227	2010	Assessment Report Describing Diamond Drilling at the Ocelot Showing	Diamond - Drilling	19	3784.75
095721	2010	Assessment Report Describing Geophysics, Soil Geochemistry and Diamond Drilling at the Rau Property	Electromagnetic - Airborne Geophysics, Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics, Magnetic - Airborne Geophysics, Diamond - Drilling, Diamond - Drilling, Drill Core - Geochemistry, Soil - Geochemistry, Soil - Geochemistry, Downhole Survey - Ground Geophysics, Gravity Survey - Ground Geophysics, IP - Ground Geophysics	170	36900.84
095684	2009	Geological Mapping, Prospecting, Soil Geochemistry and Diamond Drilling at the Rau Property	Interpretation - Airphotography, Diamond - Drilling, Drill Core - Geochemistry, Rock - Geochemistry, Soil - Geochemistry, Water - Geochemistry, Regional Surficial Mapping - Geology, IP - Ground Geophysics, Metallurgical Tests - Lab Work/Physical Studies, Petrographic - Lab Work/Physical Studies, Data Compilation - Pre-existing Data, Process/Interpret - Pre-existing Data, Biophysical Mapping - Studies, Environmental Assessment/Impact - Studies, Geotechnical - Studies, Heritage/Archeological - Studies	58	9578.30
095131	2008	Geological Mapping, Prospecting, Soil Geochemistry, Diamond Drilling, and Geophysical Surveys at the Rau Property	Magnetic - Airborne Geophysics, VTEM - Airborne Geophysics, Diamond - Drilling, Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Prospecting - Other	18	3423.21
093987	1998	Digital Topography, Landsat, and Colour Air Photo Survey over the Clark Claims]	Orthophoto - Airphotography, Rock - Geochemistry, Landsat - Remote Sensing		
090297	1977	Assessment Report, EL 1-70 Claims	Soil - Geochemistry, Bedrock Mapping - Geology, EM - Ground Geophysics		

Related References

Number	Title	Page(s)	Reference Type	Document Type
MIR1977	Mineral Industry Report 1977	42.	Indian & Northern Affairs Canada/Department of Indian & Northern Development: Geology	Annual Report
YEG2010-0V	Yukon Exploration and Geology Overview 2010	54, 65.	Yukon Geological Survey	Annual Report
YEG2011-0V	Yukon Exploration and Geology Overview 2011	42-43, 73.	Yukon Geological Survey	Annual Report
2003-9(D)	Yukon Digital Geology (version 2)		Yukon Geological Survey	Open File (Geological - Bedrock)
2003Heon	Yukon Regional Geochemical Database - Stream sediment analyses		Yukon Geological Survey	Database
1990-1	Geology of the Mt. Westman Map Area (106D/1)		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Open File (Geological - Bedrock)
1990-3	Geology of 106D/8 & 7 (East Half) Map Areas		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Open File (Geological - Bedrock)