Occurrence Details

Occurrence Number: 105N 008
Occurrence Name: Hess
Occurrence Type: Hard-rock
Status: Showing
Date printed: 8/6/2025 8:03:12 AM

General Information

Secondary Commodities: antimony, arsenic, copper, gold, lead, silver, tin, zinc
Aliases: Cartier
Deposit Type(s): Vein Polymetallic Ag-Pb-Zn+/-Au
Location(s): 63°23'18.41" N - -132°55'14.54" W
NTS Mapsheet(s): 105N07
Location Comments: Location marks location of rock sample #116336 (2013 -Target #2)
Hand Samples Available: No
Last Reviewed: Apr 11, 2017

Capsule

WORK HISTORY

*This occurrence was moved approximately 6.5 km to the northeast to capture Anthill Resources Yukon Ltd.'s Hess property.

Located, but not staked, by Atlas Explorations Ltd for the Hess Project (Atlas Explorations Ltd, Quebec Cartier Mining Company Ltd, and Phillip Brothers (Canada) Ltd) in 1967. The company prospected and sampled numerous other showings found during a large regional exploration program carried out in 1968.

Staked as Hes cl 1-208 (YD116812) in Oct/2010 by Anthill Resources Yukon Ltd which carried a small reconnaissance exploration program in 2011. In 2012 the company carried out property wide ridge and spur soil sampling, prospecting and reconnaissance scale rock and silt sampling.

In 2013 Anthill Resources carried out a geological prospecting program consisting of reconnaissance geological mapping and rock, soil and silt sampling to follow up 6 targets identified the previous year.

GEOLOGY

The property is located approximately 160 km east of Mayo in east-central Yukon. The Hess River lies immediately south of the property. Access to the property is normally obtained by helicopter from Mayo or another regional airstrip.

An updated version of the geology of topographic map sheet 105N was released in 2003 by C.F. Roots of the Geological Survey of Canada, (GSC Open File 1616 and YGS Geoscience Map 2003-2) who was working in conjunction with the Yukon Geological Survey. In 2016 the Yukon Geological Survey released an updated geological compilation (Open File 2016-1) by Colpron et al., which included the occurrence area. The compilation shows that the property is underlain by a large package of Neoproterozoic to Lower Cambrian Hyland Group rocks. J. Pautler, the geologist which carried out the 2013 geological prospecting program reported that the primary lithology is interbedded pale grey-green fine to coarse grits with lesser amount of siltstone, phyllite and shale of the Yusezyu formation. Pautler also noted a 150 m wide band of limestone assigned to the Algae Lake formation cutting through the east-central portion of the property. Pautler did not observe any younger Narchilla formation rocks which suggests they might not occur or represent a minor volume in the area. A small granitic stock assigned by Colpron et al., to the Mid-Cretaceous Mayo suite intrudes the sequence in the northwest corner of the property and extends further north off the property.

The original occurrence site (UTM 603288 E, 7035292 N) marks the site of Atlas Explorations' copper showing # 2 (see location map in Assessment Report #019033). The company reported minor chalcopyrite and pyrrhotite in narrow quartz-filled shear zones cutting quartzite. Nine grab samples assayed from 0.01 - 0.11% copper along with trace lead, zinc and silver (pg. 22 of assessment report).

Anthill Resources staked the Hes claims to explore for Intrusion-related mineralization, with a focus on gold and silver mineralization. The company also considered the presence of sedimentary exhalative mineralization (SEDEX) as another possible mineralization type present on the claim block. Anthill Resources limited 2011 sampling program returned several anomalous results for pathfinder elements associated with intrusion-related mineralization, leading the company to carry out a larger more thorough sampling program in 2012.

The 2012 rock, silt and soil sampling program identified 6 exploration targets (targets #1 - 6) within the Hes claim block. Target #1 (UTM 601940 E, 7032255 N - center point of anomaly) is an approximate 2.4 km long by 1.75 km wide soil anomaly trending outward from the southeast side of the granitic stock. Ridge and spur soil sampling returned scattered anomalous lead, zinc silver and gold values across the anomaly. The best rock sample collected at the northwest end of the anomaly returned 380 ppb gold, 432 ppm silver, 1.29 % lead, 3.77 % zinc and 42 ppm antimony from a galena-bearing quartz-calcite vein. A soil sample collected at the south-central edge of the anomaly returned 2 790 ppm arsenic while a silt sample collected from Lance creek just southeast of the anomaly returned 193 ppb gold.

Target #2 (occurrence location) measures approximately 4.3 km long by 1.5 km wide and represents a linear coincident lead-silver-arsenic +/- gold soil anomaly that extends southeast from the granitic stock. A soil sample (#07411) collected in 2012 at the northeast end of Rhyolite Ridge returned 108 ppb gold, 398 ppm lead and 235 ppm zinc. A second soil sample collected approximately 500 m southwest on the opposite side of the ridge returned 200 ppm arsenic and 23 ppb gold. Follow-up rock sampling in 2013 led to the discovery of a highly oxidized polymetallic vein that returned 308 ppb gold, 169 ppm silver, 324 ppm arsenic, 6.42 ppm tin, 9 980 ppm lead, 1.1 % zinc and 184 ppm copper. The vein is located on the northwest side of Rhyolite Ridge (UTM 603906 E, 7030556 N - occurrence location). A 2013 soil sample (S116310) located approximately 100 m to the southeast returned 516 ppb gold, 105 ppm silver, 295 ppm arsenic, 12.1 ppm antimony, 3 550 ppm lead, 2 440 ppm zinc and 184 ppm copper.

Target #3 (UTM 602452 E, 7028581 N – rock sample 12HESS02) measures approximately 1 km long by 700 m wide and represents an east-west trending soil anomaly lying in the southwest portion of the claim block that hosts anomalous antimony, lead +/- gold values. Follow-up prospecting located a galena bearing quartz vein hosted in muscovite schist which returned silver values of 18.1 g/t silver, 1 170 ppm lead and 0.020 ppm gold (rock sample 12HESS02). The sample site occurs above a stream which hosts anomalous antimony values along both flanks.

Targets #4, 5 and 6 represent lead +/- zinc, +/- silver, +/- copper, +/- antimony soil anomalies located in the eastern portion of the claim block. Prospecting identified numerous narrow quartz +/- carbonate veins, quartz filled tension fractures and quartz lenses containing variable amounts of galena, sphalerite, malachite and stibnite that may account for the anomalies. No follow-up work was conducted on these three targets and they remain unexplained.

The company concluded that the six targets remain viable for hosting precious and base metal mineralization. A work program was recommended to properly evaluate targets #1 and 2 for their potential to host precious metal mineralization. To date no further work has been carried on the property.

Work History

Date	Work Type	Comment
12/31/1968	Geochemistry	Sampled copper showing #2 but didn't stake any claims.
12/31/1968	Other	Company carried out regional prospecting program.
12/13/2013	Geochemistry	Follow-up sampling plus collected additional silt and soil samples.
12/13/2013	Other	Geologically prospected property. mapped a few showings.
12/13/2012	Geochemistry	Sampled showing discovered while prospecting.
12/13/2012	Geochemistry	Carried out ridge and spur sampling across claim block.
12/13/2012	Geochemistry	Sampled all streams.
12/13/2012	Other	Prospected claim block.
12/13/2011	Geochemistry	Carried out small reconnaissance program, also collected a few silt samples.

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
096658	2013	Assessment Report Describing Surface Geological and Geochemical Work on the Hess Property, Anthill Resources Yukon Ltd.	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Prospecting - Other		
096652	2012	Assessment Report on 2012 Soil, Silt and Rock Geochemical Sampling Program on the Hess Project, Anthill Resources Yukon Ltd.	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry		
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
ARMC010372	Geochemical results and claim group map of Vole Creek area - Hess project		Property File Collection	Geochemical Map
ARMC008032	Geology map for 105N-5 & 6 - Hess claim group		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC008034	Regional geology map - Hess project		Property File Collection	Geoscience Map (General)
ARMC008149	Topographic map of 105N-7 showing geochemical sampling results - Hess River area		Property File Collection	Geochemical Map
ARMC008150	Geochemical results and claim group map of sheet 105N-7 - Ross River		Property File Collection	Geochemical Map
ARMC016483	Aeromagnetic series map of 105N/6 with notations		Property File Collection	Geophysical Map
ARMC011776	Geological map of Vole Creek area - Hess project		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC016482	Geological overlay map - 105N/6		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC016484	Geological overlay map - 105N/7		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC018055	Geochemical map of 105N/6		Property File Collection	Geochemical Map
ARMC018056	Geochemical map of 105N/6		Property File Collection	Geochemical Map

ARMC018057	Air photo overlays - 105N/6 with stream sediment data sheets - A12328-72, 71, A12203-441, A12260-48, A12328-216, 79		Property File Collection	Geoscience Map (General)
ARMC018058	Map overlay - 105N/6 showing field sample locations		Property File Collection	Geoscience Map (General)
ARMC018059	Air photo overlays - 105N/6 with stream sediment data sheets - A12203-440, 439, A12245-115, A12339-315, 326, 312, 324, 169, A12245-113		Property File Collection	Geoscience Map (General)
ARMC018060	Report on anomalies #34 and #36 - 105N/6 - Hess River area		Property File Collection	Report
ARMC018061	Hess River area - Roman Creek - Notes, silt-soil chart sketch map and geochemical work sheets		Property File Collection	Miscellaneous Company Documents
ARMC018062	Geochemical map of 105N/7		Property File Collection	Geochemical Map
ARMC018063	Geochemical map of 105N/7		Property File Collection	Geochemical Map
ARMC018065	Geology map - 105N/7		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC018066	Overlay of map 105N/7 with notations		Property File Collection	Geoscience Map (General)
ARMC018067	Geology map - 105N/7		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC018068	Geological field map of 105N/7		Property File Collection	Geoscience Map (Geological - Bedrock)
GM2003-1	Bedrock geology of Lansing Range map area (NTS 105N), central Yukon		Yukon Geological Survey	Geoscience Map (Geological - Bedrock)