



Occurrence Details

Occurrence Number: 105F 034

Occurrence Name: Risby

Occurrence Type: Hard-rock

Status: Deposit

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General Information

Primary Commodities: tungsten, tungsten trioxide

Secondary Commodities: antimony, copper, gold

Deposit Type(s): Skarn W

Location(s): 61°51'35" N - -133°23'4" W

NTS Mapsheet(s): 105F14

Location Comments: .5 Kilometres

Hand Samples Available: Yes

Last Reviewed:

Capsule

Work History

Staked in Jun/68 by P. Risby as Cab cl 1-32 (Y25386), which were optioned by Atlas Explorations Limited and Mitsui Mining & Smelting Company Ltd and transferred to Atsui Mining Corporation Ltd. After Atsui mapped and sampled in 1968-70, in a joint venture with Dynasty Exploration Ltd, the property was transferred to a new company, Risby Tungsten Mining Ltd, and was optioned in Apr/70 by Caltor Syndicate (Rayrock Mining Limited, Ashland Canada Oil Ltd and Canadian Industrial Gas & Oil Company Ltd). Caltor drilled 8 holes (1,086 m) on the No. 2 zone during 1971 to earn a 55% interest in Risby Tungsten. Atlas changed its name to Cima Resources Limited in 1974 and Dynasty changed to Cyprus Anvil Mining Corporation in 1975. Cima performed linecutting in 1976 and trenching and sampling in 1977. In 1978, Risby Tungsten acquired the majority interest, enlarged the property and conducted more mapping, sampling and trenching.

The property was optioned in 1979 by a joint venture between Hudson Bay Mining & Smelting and Minorco Canada Limited, which performed mag and EM surveys and drilled 16 holes (1,626 m) on the No. 2 Zone in 1979, 15 holes (2,162 m) in 1980 and 9 holes (2,183 m) in 1981 and mapped in 1982. Risby Tungsten changed its name to Imperial Metals Corporation in 1981.

Restaked as Risby cl 1-4 (YB46673) in April/94 and the Johns cl 1-2 (YB54521) in Sept/94 by R. Berdahl. Berdahl added Gold cl 1-2 (YB66240) on the southwest boarder of the Risby in Sept/95. In Mar/01 Sur American Gold Corporation optioned the Risby, Johns and Gold claims from Berdahl. In 2006, Playfair Mining acquired 100% ownership of the property from R. Berdahl. In 2006, a total of 754.88 m of diamond drilling was completed in six holes. Playfair Mining completed seven diamond drillholes for a total of 1,600 m in 2008.

A 43-101 compliant mineral resource estimate was released for the Risby deposit in 2007 (Wardrop, Sept 2007, for Playfair Mining Ltd). An updated 43-101 compliant resource estimate was prepared by PEG Mining Consultants Inc.(May 29, 2009).

Capsule Geology

The occurrence is located southwest of the Tintina Fault Zone in the Cassiar terrane (Platform). The Cassiar terrane is a curvilinear shelf which formed, between mid-Cambrian to Silurian time, roughly parallel to the western edge of the North American craton, but separated from it by the Selwyn Basin. Shallow water deposition on the platform continued until Late Devonian time. Block faulting and local uplift during the Late Devonian and Mississippian resulted in deposition of carbonaceous shale and chert pebble conglomerate in the Selwyn basin and across the Cassiar terrane.

The occurrence area covers a portion of the Lower Cambrian Rosella assemblage/suite (unit ICR) composed of limestone, argillaceous limestone, fossiliferous limestone and lesser marble, calc-silicate, calcareous phyllite, minor schist and the Ingenika assemblage/suite (unit PCI4) composed of siliciclastics, minor limestone schist, minor amphibolite and marble. The Rosella and Ingenika assemblages/suites are intruded by a middle Cretaceous quartz monzonite pluton of the Cassiar Suite (unit mKqC) (Gordey and Makepeace, 1999).

The skarn showings located on and near the margins of the medium-grained quartz monzonite are developed in limestone found interbedded with quartzite and quartz-biotite schist and limestone (Darney, Mar/69).

Mineralization found to date consists of two gossanous diopside-garnet skarn zones in Lower Cambrian carbonate that strike almost perpendicular to each other. The No. 1 zone is structurally complex and has been traced on surface over an area of 250 m by 75 m in a roof pendant (MIR 1969-70, 1972). It has a high pyrrhotite content with a little chalcopyrite and the pyrrhotite is locally auriferous with rock grab samples yielding up to 2.312 g/t Au (Berdahl, 1995b).

The larger No. 2 zone, which strikes north and dips east parallel to the intrusive contact, is mineralized over a length of 1,200 m and has a low sulphide content. It consists of two separate bands 1.5 to 4.5 m thick separated by 3 - 10 m of interbedded quartz biotite schist and local sills of quartz monzonite intrusive (Darney, 1969). Surface sampling indicated grades between 0.5 and 1.0% WO₃. The more persistent lower band extends for a strike length of 660 m and a vertical extent of 350 m. The best intersections were 3.4 m grading 1.3% WO₃ in the lower skarn and 3 m grading 1.4% WO₃ in the upper. The upper zone also gave an intersection of 0.7% over 14.0 m. In Jul/82 reserves were estimated at 2.7 million tonnes grading 0.81% WO₃.

Rock samples collected by Berdahl (1995a,b) from the two zones were elevated and moderately anomalous in bismuth (up to 0.1%), arsenic (up to 13%) and antimony (up to 168 ppm).

Diamond drilling in 2006 intersected 6.49 m @ 1.09% WO₃ in the Upper Skarn and 5.37 m @ 0.49% WO₃ in the Lower Skarn in hole RT06-05 (cut-off grade of 0.30% WO₃).

A 43-101 compliant mineral resource estimate was released for the Risby deposit in 2007 (Wardrop, Sept 2007). The study reported an Inferred Resources of 6,385,000 tonnes at 0.462% WO₃ (0.20% cut-off grade). A highlight intercept from the 2008 drilling is 4.43 m of 0.991% WO₃ in hole RT08-51.

An updated 43-101 compliant resource estimate was prepared by PEG Mining Consultants Inc.(May 29, 2009) which combined 2008 drill results with the 2007 resource estimate. The Inferred Resource as of May 14, 2009 is 8.537 million tonnes @ 0.475% WO₃ (cut-off grade of 0.2% WO₃).

Work History

Date	Work Type	Comment
9/25/2007	Studies	Wardrop, Sept 2007.
5/29/2009	Studies	PEG Mining Consultants Inc, May 2009.
12/31/2008	Drilling	Seven holes, 1,600 m.
12/31/2006	Drilling	Six holes, 754.88 m.
12/31/1995	Geochemistry	
12/31/1995	Geochemistry	
12/31/1995	Other	
12/31/1994	Geochemistry	
12/31/1994	Other	
12/31/1982	Geology	
12/31/1981	Drilling	Nine holes, 2183 m, drilled on No. 2 zone.
12/31/1980	Drilling	Fifteen holes, 2162 m, drilled on No. 2 zone.
12/31/1979	Drilling	Sixteen holes, 1,626 m.
12/31/1979	Ground Geophysics	Also magnetic survey.
12/31/1978	Geology	
12/31/1978	Geochemistry	Also soil and rock sampling.
12/31/1978	Ground Geophysics	
12/31/1978	Trenching	
12/31/1977	Geochemistry	
12/31/1977	Trenching	
12/31/1971	Drilling	Eight holes, 1,086 m, drilled on No. 2 zone.
12/31/1968	Geology	
12/31/1968	Geochemistry	
12/31/1968	Geochemistry	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
094598	2006	Summary Diamond Drill Hole Report on the Risby Tungsten Project	Diamond - Drilling	6	754.88
093449	1995	General Prospecting Report on the Risby Gold Project	Rock - Geochemistry, Prospecting - Other		
093358	1994	General Prospecting Report on the Risby Gold Project	Rock - Geochemistry, Prospecting - Other		
091133	1979	Assessment Report Diamond Drilling Program	Diamond - Drilling	16	1625.80
060016	1969	Geochemical Report Cab Claim Group	Silt - Geochemistry, Soil - Geochemistry		
060017	1969	Geological Report Cab Claim Group	Detailed Bedrock Mapping - Geology		
018891	1968	Geological and Geochemical Report Cab Mineral Claim Group	Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology		

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC014464	Photos of R.T. area - Cab mineral claims		Property File Collection	Photos
ARMC014455	Plan of proposed drilling - Cab mineral claims - R.T. agreement area, Yuko - Figure 6		Property File Collection	Geoscience Map (General)
ARMC014451	Plane table survey - Cab area - July 1969 - Fig. 1		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC014479	Report on 1971 diamond drill program - Cab claim group - Risby Tunsten Mines Ltd. - With maps		Property File Collection	Report
ARMC014486	Report on Cab group of mineral claims of Risby Tungsten Mines Ltd. in the Whitehorse mining district, Yukon Territory with map collection		Property File Collection	Geoscience Map (General)

ARMC014234	NTS sheet 105F - Quiet Lake - Showing location map of the Dog claims - Cab area	Property File Collection	Geoscience Map (General)
ARMC014489	Overlays of camp 1 with geological markings - Dog camp - R.T. prospecting area	Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC014463	Progress report, August 1968 - R.T. area and Cab mineral claims	Property File Collection	Report
ARMC014444	Property examination report and general report - Cab mineral claims	Property File Collection	Report
ARMC014503	Tungsten in Yukon - A paper presented at the Third Northern Resource Conference	Property File Collection	Report
ARMC014476	Proposed exploration program - Cab mineral claims - R.T. agreement area	Property File Collection	Report
ARMC014386	Prospecting map of Big Salmon River area - R.T. OEX - Cab claims	Property File Collection	Geoscience Map (General)
ARMC014477	Mapping, geological and geochemical report with map collection - Cab claim group	Property File Collection	Report
ARMC014466	Memo re: R.T. area progress	Property File Collection	Miscellaneous Company Documents
ARMC014480	Memo re: Risby Tungsten	Property File Collection	Miscellaneous Company Documents
ARMC014465	Memo re: Twin Creeks tungsten (Risby) - Sheldon OEX properties exam	Property File Collection	Miscellaneous Company Documents
ARMC014471	Memo to R.J. (Bob) Darney re: CAB area	Property File Collection	Miscellaneous Company Documents
ARMC014472	Memo to R.J. (Bob) Darney re: Moly test - Risby	Property File Collection	Miscellaneous Company Documents
ARMC014475	Memos to R.J. (Bob) Darney re: Cab group	Property File Collection	Miscellaneous Company Documents
ARMC014497	Map of camp 6 with geological markings - R.T. Prospecting area	Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC014481	News clippings - "How Swedish metallurgists developed selective scheelite flotation process" and "New Swedish scheelite flotation process results"	Property File Collection	News Release
ARMC014493	Notes - R.T. OEX - Lishy prospecting camp No. 3	Property File Collection	Miscellaneous Company Documents
ARMC014467	Notes and chip sample log on the main showing and west showing - R.T. area	Property File Collection	Miscellaneous Company Documents
ARMC014473	Notes on float east of Cab group	Property File Collection	Miscellaneous Company Documents
ARMC014502	Map sheet 105F/14 with field notations - R.T. agreement area	Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC014478	Map portions showing field notes from the Cab group	Property File Collection	Geoscience Map (General)
ARMC014500	Soil & silt sample locations & results - Cab mineral claims	Property File Collection	Geochemical Map
ARMC014483	Risby Tungsten - Geological section B-B' - Fig.2	Property File Collection	Geoscience Map (General)
ARMC014482	Risby Tungsten - Geological section G-G' - Fig.3	Property File Collection	Geoscience Map (General)
ARMC014484	Risby Tungsten - Reserve block - Fig. 4	Property File Collection	Geoscience Map (General)
ARMC014485	Risby Tungsten - Stratigraphic columns - Fig. 1	Property File Collection	Geoscience Map (General)
ARMC014461	Risby tungsten - Summary description - Cab group	Property File Collection	Report
ARMC014442	Sample and assay plan - Cab minerals - Ross River area	Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC014492	Map of camp 3 with geological markings - R.T. prospecting area	Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC014495	Map of camp 4 with geological markings - R.T. prospecting area	Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC014498	Map of camp 5 with geological markings - R.T. Prospecting area	Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC014490	Set of 4 maps of camp 2 with geological markings - R.T. prospecting area	Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC014488	R.T. Oex prospecting notes and sketch maps on prospecting locations - Figure 2	Property File Collection	Geoscience Map (General)
ARMC014438	G.S.C. annual report - Cab 1 to 106 claims	Property File Collection	Report

ARMC014439	Compilation map - Cab group		Property File Collection	Geoscience Map (General)
ARMC014447	Geology - Cab mineral claims		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC014454	Geology - Cab tungsten property - Drawing 1		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC014499	Analytical work sheet - Geochemical - Lishy prospecting results - R.T. fly camp No. 2		Property File Collection	Miscellaneous Company Documents
ARMC014491	Analytical work sheets - Geochemical - Report #69-18-RT - Risby Tungsten		Property File Collection	Miscellaneous Company Documents
ARMC014494	Analytical work sheets - Geochemical - Report #69-23-RT - Risby Tungsten		Property File Collection	Miscellaneous Company Documents
ARMC014496	Analytical work sheets - Geochemical - Report #69-37-RT - Risby Tungsten		Property File Collection	Miscellaneous Company Documents
ARMC014462	Annual summary - Canada Tunsten Mining Corporation Limited		Property File Collection	Report
ARMC014501	Geology and geochemistry of northern part of R.T. agreement area		Property File Collection	Report
ARMC018602	Field notes - Cab group		Property File Collection	Miscellaneous Company Documents
ARMC020494	Field notebook - Cab		Property File Collection	Miscellaneous Company Documents
ARMC014468	Assay certificate No. 4996-2 - Samples 5827, 5828 for Atlas Explorations		Property File Collection	Assays
ARMC014469	Correspondence to John S. Brock re: CAB tungsten property		Property File Collection	Miscellaneous Company Documents
ARMC014470	Correspondence to Peter Risby re: Twin Creek		Property File Collection	Miscellaneous Company Documents
ARMC014441	Assay plan - East zone - Cab tungsten property - Drawing no. 2		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC014440	Assay plan - East zone - Cab tungsten property - Drawing no. 3		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC014448	Assay results (east zone) - Cab mineral claim group - R.T. area		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC014445	Assay results (west zone) - Cab mineral claim group - R.T. area - Figure 3		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC014452	Field notes - Cab geology X sections		Property File Collection	Miscellaneous Company Documents
ARMC014453	Cab geology		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC014456	Cab group showing geology locations - Ross River, Yukon Territory		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC014474	Cab mineral claims - Preliminary evaluation		Property File Collection	Report
ARMC014457	Cab mineral claims with geological overlay		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC014460	Cab plane table surv.		Property File Collection	Geoscience Map (General)
ARMC014458	Cab plane table surv. - Sheet 1		Property File Collection	Geoscience Map (General)
ARMC014459	Cab plane table surv. - Sheet 2		Property File Collection	Geoscience Map (General)
ARMC014443	Certificate of assay - Cab minerals - File #3059		Property File Collection	Miscellaneous Company Documents
ARMC014449	Certificate of assay - Cab minerals (east zone) - File #460-A-8927		Property File Collection	Miscellaneous Company Documents
ARMC014450	Certificate of assay - Cab minerals (east zone)- File No. 6937		Property File Collection	Miscellaneous Company Documents
ARMC014487	Certificate of assay - R.T. area - File No. 460-A-9236		Property File Collection	Assays

Resource/Reserve

Year	Zone	Type	Commodity	Grade	Tonnage	Amount	Reported Amount	43-101 Compliant	Cut-off
2009	No. 2 Zone (OPEN PIT)	Inferred	tungsten trioxide	.475 %	8,537,000		No	Yes	Unknown

May 14, 2009 News Release.; PEG Mining Consultants Inc., 2009.

2007	RISBY - UPPER SKARN ZONE (UNDERGROUND)	Inferred	tungsten trioxide	.431 %	1,423,893		No	Yes	0.20% WO3
Inferred resources for Upper Skarn. Wardrop, 2007.									
2007	RISBY - LOWER SKARN ZONE (UNDERGROUND)	Inferred	tungsten trioxide	.471 %	4,960,993		No	Yes	0.20% WO3
Inferred resources for Lower Skarn. Wardrop, 2007.									
2007	RISBY- TOTAL RESERVES (UNDERGROUND)	Inferred	tungsten trioxide	.462 %	6,384,893		No	Yes	0.20% WO3
Inferred for Upper and Lower Skarn. Wardrop, 2007.									
1982	RISBY- TOTAL RESERVES (UNDERGROUND)	Historical Estimate	tungsten	.81 %	2,700,000		No	No	Unknown
Drill indicated reserves. Do not meet National Instrument 43-101 standards.; Northern Miner, July 8 1982, p. 30. Also Canadian Mines Handbook 1983-84, p. 165. This reserve figure is widely quoted in various geological citations.									

Drill core at YGS core library

Number	Property	Year Drilled	Core Size	Photos	Data
DDH-81-40	Risby	1981	BQ	30	2
DDH-81-41	Risby	1981	BQ	32	2
DDH-81-45	Risby	1981	NQ	26	2
DDH-81-46	Risby	1981	NQ	2	2
DDH-80-28	Risby	1980	BQ	4	2
DDH-80-29	Risby	1980	BQ	4	2
DDH-80-36	Risby	1980	BQ	6	2