



Occurrence Details

Occurrence Number: 105A 012

Occurrence Name: Sa Dena Hes-Main Zone

Occurrence Type: Hard-rock

Status: Deposit

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General Information

Primary Commodities: lead, silver, zinc

Secondary Commodities: fluorite

Aliases: Sa Dena Hes, Mt. Hundere, South Showing, Jewel Box

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

Location(s): 60°31'4" N - -128°52'39" W

NTS Mapsheet(s): 105A10

Location Comments: Location digitized from map in AR092541

Hand Samples Available: Yes

Last Reviewed:

Capsule

Work History

Staked as PJ and OP cl (79569) in July/62 by Frances River Syndicate (Canex Aerial Exploration Ltd, Newconex Canadian Exploration Ltd, Kerr Addison Mines & Anglo-Huronian Ltd), which built a road and explored with trenching and 6 holes (443 m) in 1963. The fringing Tom cl (86929) were staked by Conwest Exploration Company Ltd in 1963. The property was later transferred to a new company, Mt Hundere Mines Ltd, and optioned to Atlas Explorations Ltd, which performed bulldozer trenching and geochem and geophysical surveys in 1966. Atlas changed its name to Cima Resources Ltd in 1974 and restaked as Mica cl (YA416) in Aug/76. Cima added 103 Cima, etc cl (YA45288) and explored with bulldozer trenching and 18 holes (900 m) in 1979 and a further 26 holes (1300 m) in 1980. A feasibility study in 1980 recommended production at 227 tonnes/day. Cima entered a joint venture with Canadian Natural Resources Ltd in 1981 and drilled 19 holes (797 m) in 1981 and 9 holes (422 m) in 1982. The property was sold in 1984 to Canamax Resources Inc, which performed remapping and geochemical sampling later in the year in conjunction with work on the adjoining Attila (Minfile Occurrence #105A 013) occurrence. Canamax added Hun cl (YA71386) to the west in 1984-85, carried out geochemical and geophysical (mag, IP, and airborne EM) surveys in 1985 and drilled 37 holes (5468 m) in 1985, 30 holes in 1986, 14 holes (3990 m) in 1987, and 10 holes (2929 m) in 1988. Canamax added more Hun claims in Jun/88 and sold its interest to Hillsborough Resources Ltd in Apr/88, subject to a 10% net profits interest. Hillsborough transferred the Cima and Mica claims to 833051 Ontario Ltd in May/89. Frame Mining Corporation Ltd tied on Thunder cl 1-22 (YB16288) & Hawk cl 1-8 (YB16310) in Aug/89 and transferred them to Curragh Resources Inc in Nov/89. Diamond drilling in 1989 totaled 29 078 m in 155 holes. In 1990, 104 more Hun claims were added, and the property was expanded to include the Eagle cl (YB16685), also held by Curragh. The joint venture was expanded to include the Kaska Nation, which was given an option to purchase 5% by December, 1993. A production decision was announced, and construction began with the collaring of two adits on Jewelbox Hill: an upper exploration/ventilation adit and a lower development/haulage adit. Initial underground exploration consisted of a crosscut which intersected the upper ore body 65 m from the upper portal, and a drift which followed the hanging wall of the ore for 55 m. Underground and surface drilling continued into the late fall of 1990 with 4244 m of drilling in 125 holes. The underground drilling (74 holes - 2120 m) tested a mineralized chimney which connects the upper and lower skarn zones. After 10 months of construction, the concentrator and haul road were completed, and production from the Jewelbox Hill zone commenced in July, 1991 at a rate of 1500 tonnes/day. In 1991 the company mined 172 345 tonnes of ore and recovered 44 998 tonnes of lead-zinc concentrate, containing an average combined grade of 20.2 %. The following year the company mined 527 411 tonnes of ore and recovered 125 228 tonnes of lead zinc concentrate, containing an average combined grade of 18%. The concentrate contained significant silver credits. Exploration drilling for 1992 totalled 16 460 m in 79 holes, and the Burnick zone on North Hill (Minfile 105A 013) was explored with a short adit. Curragh Resources changed its name to Curragh Inc. in May/92. The mine and mill were shut down Dec 2/92, primarily as a result of low metal prices. In Dec/93, a partnership of Teck Corporation Ltd, Cominco Ltd and Korea Zinc Company Ltd offered to purchase the Sa Dena Hes property from the receivers Coopers and Lybrand Ltd, subject to court and regulatory approval. The sale to Teck and Cominco was completed in Mar/94 with Korea Zinc granted the right to acquire a 50% interest in the mine. In Aug/97 the consortium considered re-opening the mine during a rise in base metal prices but a subsequent down-turn in prices led to the cancellation of the project. The property is presently on care and maintenance status. Cominco's 1999 Annual Report lists a proven and probable reserve (pre-NI 43-101) and a MEASURED+ INDICATED resource. Teck Cominco's 2003 to 2005 Annual Reports lists an INDICATED resource. Later reports do not list the property.

Capsule Geology

At Mt Hundere, several high grade zinc-lead-silver replacement zones occur along contacts between Lower Cambrian limestone and phyllite. At the start of production, "proven plus probable" reserves stood at approximately 3.9 million tonnes in 5 main zones, with an average grade of 3.9 g/t Pb, 12.7% Zn and 58 g/t Ag. In addition 1.2 million tonnes of sulphide mineral inventory grading 5.2% Pb, 12.5% Zn and 84 g/t Ag was assigned to "possible reserves". A further 527 000 tonnes of oxide material containing 8.1% Pb, 12.7% Zn and 109 g/t Ag was also identified. The ore is coarse-grained and free of most impurities. The waste rock and tailings are non-acid generating due to the limestone host rock and the negligible amount of pyrite or pyrrhotite in low grade mineralization in both the ore and the low grade mineralization.

Beneath Jewelbox Hill, the Upper and Lower mineralized replacement zones form lensoid bodies 1 to 15 m thick in two sheared, brecciated limestone layers with locally developed cavernous porosity. A chimney of high grade mineralization connects the Upper and Lower replacement zones. Other mineralization is contained in the Main zone, the East zone and the Gribbler zone, as well as in the Attila and Burnick zones beneath North Hill. Zinc to lead ratio is 2:1 in all zones except the Burnick, where it is 30:1. Based on drilling up to May 1990, the average grade is estimated at about 16.6% combined Zn-Pb.

On Jewelbox Hill the main ore type consists of coarse actinolite-diopside-quartz-andradite skarn with massive sphalerite and galena. Copper-iron skarns and replacement bodies containing magnetite, chalcopyrite, pyrrhotite and minor pyrite and hematite also occur locally. The highest silver values on the property come from prograde diopside-rich skarn on the east side of Jewelbox Hill. Two vertical, ENE trending faults filled with quartz-fluorite breccia occur near the ore, and some fluorite extends into the ore. The mineralization at Mt Hundere is epigenetic and is believed to be the product of retrograde thermal metamorphism related to a buried intrusion inferred from the presence of a dome-shaped uplift in the Mt Hundere area (Abbott, 1977). The only igneous rocks outcropping on the property are quartz-albite porphyry dykes. D. Sinclair obtained a 50 Ma K/Ar age from one such dyke on North Hill. The property currently (?) hosts probable mineral reserves of 1 400 000 tonnes, grading 2.5% lead, 10.2% zinc and 44 g/t silver and indicated mineral resources (possible reserves) of approximately 700 000 tonnes grading 4.6% lead, 11.8% zinc and 56 g/t silver. Cominco's 1999 Annual Report lists a proven and probable reserve (pre-NI 43-101) of 1.3M tonnes grading 10.1% Zn and 2.3% Pb and a MEASURED+ INDICATED resource of 0.7M tonnes grading 11.9% Zn and 4.6% Pb.

Teck Cominco's 2003 to 2005 Annual Reports lists an INDICATED resource of 2.19M tonnes grading 10.4% Zn and 2.6% Pb.

Work History		
Date	Work Type	Comment
12/31/1997	Studies	Consortium examined property with aim of re-opening mine.
12/31/1991	Development, Surface	Production commenced in July, 1991 at a rate of 1,500 tonnes/day.
12/31/1991	Development, Surface	
12/31/1990	Drilling	One hundred twenty five holes, 4,244 m.
12/31/1990	Development, Surface	
12/31/1990	Development, Surface	Amount of work done: 2,800 m.
12/31/1989	Drilling	One hundred fifty five holes, 29,078 m.
12/31/1988	Drilling	Ten holes, 2,929 m.
12/31/1987	Drilling	Fourteen holes, 3,890 m.
12/31/1986	Drilling	Twenty holes, 3,094 m.
12/31/1985	Drilling	Thirty seven holes, 5,468 m.
12/31/1985	Ground Geophysics	Also IP survey.
12/31/1984	Geology	
12/31/1982	Drilling	Eight holes, 422 m.
12/31/1981	Drilling	Nineteen holes, 797 m.
12/31/1980	Drilling	Twenty six holes, 1,300 m.
12/31/1979	Drilling	Eighteen holes, 900 m.
12/31/1979	Trenching	
12/31/1966	Geochemistry	
12/31/1966	Ground Geophysics	Also IP survey.
12/31/1966	Trenching	
12/31/1963	Drilling	Six holes, 433 m.
12/31/1963	Development, Surface	
12/31/1963	Trenching	
12/13/1985	Geochemistry	
12/13/1985	Airborne Geophysics	
12/1/1986	Development, Surface	
12/1/1984	Geochemistry	
12/1/1984	Geochemistry	
12/1/1982	Studies	
12/1/1982	Lab Work/Physical Studies	
12/1/1981	Trenching	
12/1/1981	Other	
12/1/1981	Geochemistry	
12/1/1981	Geology	
12/1/1980	Studies	
12/1/1980	Other	
12/1/1980	Geochemistry	
12/1/1980	Geochemistry	
12/1/1980	Geology	
12/1/1963	Other	

Assessment Reports that overlap occurrence				
Report			Holac	Matore

Report Number	Year	Title	Worktypes	Holes Drilled	Feet Drilled
092947	1990	Mt. Hundere Surface Drilling	Diamond - Drilling	123	4244.34
092847	1990	[Diamond Drilling Report on Hundere Property]	Diamond - Drilling	52	9396.50
092930	1988	[Mt. Hundere Diamond Drilling on Jewelbox Hill and the North Showing]	Diamond - Drilling, Diamond - Drilling	24	8846.50
092593	1988	1988 Drilling Report	Diamond - Drilling	28	5501
092541	1988	1988 Drilling Report	Diamond - Drilling	28	5501
091927	1986	Mt. Hundere Property	All Weather Road - Development, Surface, Diamond - Drilling, Drill Core - Geochemistry	20	3094
091784	1985	Mt. Hundere Diamond Drilling	Diamond - Drilling, Drill Core - Geochemistry	13	2018.79
091615	1984	Mt. Hundere Geochemical Report	Silt - Geochemistry, Soil - Geochemistry		
091470	1982	1982 Work Report Cima Mines Option Mt. Hundere Property Watson Lake Mining District Yukon Territory	Diamond - Drilling	9	317.20
091745	1982	1982 Work Report, Cima Mines Option, Mt. Hundere Property, Watson Lake Mining District	Diamond - Drilling, Metallurgical Tests - Lab Work/Physical Studies, Resource Estimate - Studies	8	314.10
090955	1981	Report on Geology, Geochemical and Diamond Drilling	Diamond - Drilling, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Line Cutting - Other, Backhoe - Trenching	19	797
062257	1980	Mt. Hundere Property Feasibility Study Review	Feasibility - Studies		
062256	1980	Mt. Hundere Property Feasibility Study	Feasibility - Studies		
090527	1979	Report on 1979 Exploration Program on Mount Hundere (Mica) Property (AR 090955)	Diamond - Drilling, Detailed Bedrock Mapping - Geology, Hand - Trenching	18	468.11
019586	1966	Report on the Geochemical, Geological Surveys and Bulldozer Trenching of the Mt. Hundere Property	Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Backhoe - Trenching		
092066	1963	New Showing File	Prospecting - Other		
091095	1963	[Drilling Summary of JP and PJ Claims]	Diamond - Drilling	7	560.80

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC000393	Report - Sa Dena Hes Mine		Property File Collection	Report
ARMC006766	Geology of the Mount Hundere lead-zinc-silver deposits, Watson Lake		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC005857	Map - Vertical section 1387.5N - Lithologies and Pb+Zn assays - Sa Dena Hes joint venture - Jewel Box		Property File Collection	Geoscience Map (General)
ARMC005858	Map - Vertical section 1400N - Lithologies and Pb+Zn assays - Sa Dena Hes joint venture - Jewel Box		Property File Collection	Geoscience Map (General)
ARMC005859	Map - Vertical section 1412.5N - Lithologies and Pb+Zn assays - Sa Dena Hes joint venture - Jewel Box		Property File Collection	Geoscience Map (General)
ARMC005860	Map - Vertical section 1425N - Lithologies and Pb+Zn assays - Sa Dena Hes joint venture - Jewel Box		Property File Collection	Geoscience Map (General)
ARMC005861	Map - Vertical section 1437.5N - Lithologies and Pb+Zn assays - Sa Dena Hes joint venture - Jewel Box		Property File Collection	Geoscience Map (General)
ARMC005899	Map - Vertical section 1537.5N - Inventory polygons with grades - Sa Dena Hes joint venture - Jewel Box		Property File Collection	Geoscience Map (General)
ARMC005900	Map - Vertical section 1550N - Inventory Polygons with Grades - Sa Dena Hes Joint Venture - Jewel Box		Property File Collection	Geoscience Map (General)
ARMC005901	Map - Vertical section 1562.5N - Inventory Polygons with Grades - Sa Dena Hes Joint Venture - Jewel Box		Property File Collection	Geoscience Map (General)
ARMC005902	Map - Vertical section 1575N - Inventory polygons with grades - Sa Dena Hes joint venture - Jewel Box		Property File Collection	Geoscience Map (General)
ARMC005903	Map - Vertical section 1587.5N - Inventory polygons with grades - Sa Dena Hes joint venture - Jewel Box		Property File Collection	Geoscience Map (General)
ARMC005904	Map - Vertical section 1600N - Inventory polygons with grades - Sa Dena Hes joint venture - Jewel Box		Property File Collection	Geoscience Map (General)
ARMC005905	Map - Vertical section 1612.5N - Inventory polygons with grades - Sa Dena Hes joint venture - Jewel Box		Property File Collection	Geoscience Map (General)
ARMC005906	Map - Vertical section 1625N - Inventory polygons with grades - Sa Dena Hes joint venture - Jewel Box		Property File Collection	Geoscience Map (General)
ARMC005907	Mine map - Plan level drill hole traces - Sa Dena Hes joint venture - Jewel Box		Property File Collection	Geoscience Map (General)
ARMC005908	Mine map - Plan level 1420 underground workings - Sa Dena Hes joint venture - Jewel Box		Property File Collection	Geoscience Map (General)
ARMC005909	Mine map - Plan level 1395 underground workings - Sa Dena Hes joint venture - Jewel Box		Property File Collection	Geoscience Map (General)
ARMC005910	Mine map - Plan level 1370 underground workings - Sa Dena Hes joint venture - Jewel Box		Property File Collection	Geoscience Map (General)
ARMC005911	Mine map - Plan level 1340 underground workings - Sa Dena Hes joint venture - Jewel Box		Property File Collection	Geoscience Map (General)
ARMC005912	Mine map - Plan level 1330 underground workings - Sa Dena Hes joint venture - Jewel Box		Property File Collection	Geoscience Map (General)
ARMC005913	Mine map - Plan level 1420 - Geology and DDH - Level 1415 - Sa Dena Hes joint venture - Jewel Box		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC005914	Mine map - Plan level 1395 - Geology and DDH - Level 1400 - Sa Dena Hes joint venture - Jewel Box		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC005915	Mine map - Plan level 1370 - Geology and DDH - Level 1375 - Sa Dena Hes joint venture - Jewel Box		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC005916	Mine map - Plan level 1360 - Geology and DDH - Level 1360 - Sa Dena Hes joint venture - Jewel Box		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC005917	Mine map - Plan level 1340 - Geology and DDH - Level 1345 - Sa Dena Hes joint venture - Jewel Box		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC005918	Mine map - Plan level 1330 - Geology and DDH - Level 1335 - Sa Dena Hes joint venture - Jewel Box		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC005919	Mine map - Plan level 1290 - Geology and DDH - Level 1290 - Sa Dena Hes joint venture - Jewel Box		Property File Collection	Geoscience Map (Geological - Bedrock)

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Resource/Reserve

Year	Zone	Type	Commodity	Grade	Tonnage	Amount	Reported Amount	43-101 Compliant	Cut-off
2003	MT. HUNDERE - TOTAL RESERVES (OPEN PIT & UNDERGROUND)	Indicated	lead	2.6 %	2,190,000		No	Unknown	Unknown
Other resources probably exist but do not meet current National Instrument 43 -101 standards.; Teck Cominco 2003 Annual Report p. 63. Report does not breakout underground and open pit or by zones. Appears to be remaining resource.									
2003	MT. HUNDERE - TOTAL RESERVES (OPEN PIT & UNDERGROUND)	Indicated	zinc	10.4 %	2,190,000		No	Unknown	Unknown
Other resources probably exist but do not meet current National Instrument 43 -101 standards.; Teck Cominco 2003 Annual Report p. 63. Report does not breakout underground and open pit or by zones. Appears to be remaining resource.									
1999	Sa Dena Hes (Underground)	Probable	zinc	10.1 %	1,300,000		No	No	unknown
Cominco 1999 Annual Report									
1999	Sa Dena Hes (Underground)	Probable	lead	2.3 %	1,300,000		No	No	Unknown
Cominco 1999 Annual Report.									
1999	Sa Dena Hes (Underground)	Inferred	zinc	11.9 %	700,000		No	No	unknown
Cominco 1999 Annual Report.									
1999	Sa Dena Hes (Underground)	Inferred	lead	4.6 %	700,000		No	No	unknown
Cominco 1999 Annual Report.									
1997	MT. HUNDERE - TOTAL RESERVES (OPEN PIT & UNDERGROUND)	Historical Estimate	lead	4.6 %	700,000		No	No	Unknown
Approximate reserves remaining based on information published at time. Project Status = Care and Maintenance. Indicated Mineral Resources = Possible Reserves.; Northern Miner, 25 Aug/97.									
1997	MT. HUNDERE - TOTAL RESERVES (OPEN PIT & UNDERGROUND)	Historical Estimate	lead	2.5 %	1,400,000		No	No	Unknown
Approximate reserves remaining based on information published at time. Project Status = Care and Maintenance. Indicated Mineral Resources = Possible Reserves.; Northern Miner, 25 Aug/97.									
1997	MT. HUNDERE - TOTAL RESERVES (OPEN PIT & UNDERGROUND)	Historical Estimate	silver	59 g/t	700,000		No	No	Unknown
Approximate reserves remaining based on information published at time. Project Status = Care and Maintenance. Indicated Mineral Resources = Possible Reserves.; Northern Miner, 25 Aug/97.									
1997	MT. HUNDERE - TOTAL RESERVES (OPEN PIT & UNDERGROUND)	Historical Estimate	silver	44 g/t	1,400,000		No	No	Unknown
Approximate reserves remaining based on information published at time. Project Status = Care and Maintenance. Indicated Mineral Resources = Possible Reserves.; Northern Miner, 25 Aug/97.									
1997	MT. HUNDERE - TOTAL RESERVES (OPEN PIT & UNDERGROUND)	Historical Estimate	zinc	11.8 %	700,000		No	No	Unknown
Approximate reserves remaining based on information published at time. Project Status = Care and Maintenance. Indicated Mineral Resources = Possible Reserves.; Northern Miner, 25 Aug/97.									
1997	MT. HUNDERE - TOTAL RESERVES (OPEN PIT & UNDERGROUND)	Historical Estimate	zinc	10.2 %	1,400,000		No	No	Unknown
Approximate reserves remaining based on information published at time. Project Status = Care and Maintenance. Indicated Mineral Resources = Possible Reserves.; Northern Miner, 25 Aug/97.									
1990	MT. HUNDERE - TOTAL RESERVES (OPEN PIT & UNDERGROUND)	Historical Estimate	lead	8.1 %	527,000		No	No	Unknown
Total reserves published at start of operations at Sa Dena Hes project. Indicated Mineral Resources = Possible Reserves, Not Defined Resource= Oxide Reserves; Mt. Hundere Development, Initial Environmental Evaluation, Volume 1 - Project Description, May 1990. See also Northern Miner 22 Jul/91.									
1990	MT. HUNDERE - TOTAL RESERVES (OPEN PIT & UNDERGROUND)	Historical Estimate	lead	5.2 %	1,189,000		No	No	Unknown
Total reserves published at start of operations at Sa Dena Hes project. Indicated Mineral Resources = Possible Reserves, Not Defined Resource= Oxide Reserves; Mt. Hundere Development, Initial Environmental Evaluation, Volume 1 - Project Description, May 1990. See also Northern Miner 22 Jul/91.									
1990	MT. HUNDERE - TOTAL RESERVES (OPEN PIT & UNDERGROUND)	Historical Estimate	lead	3.9 %	3,864,000		No	No	Unknown
Total reserves published at start of operations at Sa Dena Hes project. Indicated Mineral Resources = Possible Reserves, Not Defined Resource= Oxide Reserves; Mt. Hundere Development, Initial Environmental Evaluation, Volume 1 - Project Description, May 1990. See also Northern Miner 22 Jul/91.									
1990	MT. HUNDERE - TOTAL RESERVES (OPEN PIT & UNDERGROUND)	Historical Estimate	lead	16.9 %	75,000		No	No	Unknown
Total reserves published at start of operations at Sa Dena Hes project. Indicated Mineral Resources = Possible Reserves, Not Defined Resource= Oxide Reserves; Mt. Hundere Development, Initial Environmental Evaluation, Volume 1 - Project Description, May 1990. See also Northern Miner 22 Jul/91.									
1990	MT. HUNDERE - TOTAL RESERVES (OPEN PIT & UNDERGROUND)	Historical Estimate	silver	109 g/t	527,000		No	No	Unknown
Total reserves published at start of operations at Sa Dena Hes project. Indicated Mineral Resources = Possible Reserves, Not Defined Resource= Oxide Reserves; Mt. Hundere Development, Initial Environmental Evaluation, Volume 1 - Project Description, May 1990. See also Northern Miner 22 Jul/91.									
1990	MT. HUNDERE - TOTAL RESERVES (OPEN PIT & UNDERGROUND)	Historical Estimate	silver	84 g/t	1,189,000		No	No	Unknown
Total reserves published at start of operations at Sa Dena Hes project. Indicated Mineral Resources = Possible Reserves, Not Defined Resource= Oxide Reserves; Mt. Hundere Development, Initial Environmental Evaluation, Volume 1 - Project Description, May 1990. See also Northern Miner 22 Jul/91.									
1990	MT. HUNDERE - TOTAL RESERVES (OPEN PIT & UNDERGROUND)	Historical Estimate	silver	58 g/t	3,864,000		No	No	Unknown
Total reserves published at start of operations at Sa Dena Hes project. Indicated Mineral Resources = Possible Reserves, Not Defined Resource= Oxide Reserves; Mt. Hundere Development, Initial Environmental Evaluation, Volume 1 - Project Description, May 1990. See also Northern Miner 22 Jul/91.									
1990	MT. HUNDERE - TOTAL RESERVES (OPEN PIT & UNDERGROUND)	Historical Estimate	silver	89 g/t	75,000		No	No	Unknown
Total reserves published at start of operations at Sa Dena Hes project. Indicated Mineral Resources = Possible Reserves, Not Defined Resource= Oxide Reserves; Mt. Hundere Development, Initial Environmental Evaluation, Volume 1 - Project Description, May 1990. See also Northern Miner 22 Jul/91.									
1990	MT. HUNDERE - TOTAL RESERVES (OPEN PIT & UNDERGROUND)	Historical Estimate	zinc	12.1 %	527,000		No	No	Unknown
Total reserves published at start of operations at Sa Dena Hes project. Indicated Mineral Resources = Possible Reserves, Not Defined Resource= Oxide Reserves; Mt. Hundere Development, Initial Environmental Evaluation, Volume 1 - Project Description, May 1990. See also Northern Miner 22 Jul/91.									
1990	MT. HUNDERE - TOTAL RESERVES (OPEN PIT & UNDERGROUND)	Historical Estimate	zinc	12.5 %	1,189,000		No	No	Unknown

Individual zone figures.; Mt. Hundere Development, Initial Environmental Evaluation, Volume 1 - Project Description, May 1990. See also Northern Miner 22 Jul/91.

1990	MAIN ZONE (OPEN PIT)	Historical Estimate	zinc	18.8 %	75,000		No	No	Unknown
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Individual zone figures.; Mt. Hundere Development, Initial Environmental Evaluation, Volume 1 - Project Description, May 1990. See also Northern Miner 22 Jul/91.

Production

Date	Commodity	A mount	Comment
12/31/1991	Zn	125226 metric tonnes	125 226 tonnes of zinc and lead concentrate with an average combined head grade of 18% (includes credit for silver content). Canadian Mines Handbook 1993-1994
12/31/1991	Pb	125226 metric tonnes	tonnage represents zinc and lead concentrate with an average combined head grade of 18% (includes credit for silver content). Canadian Mines Handbook 1993-1994.

Drill core at YGS core library

Number	Property	Year Drilled	Core Size	Photos	Data
S-71	Mount Hundere	1982	NQ	8	2
S-72	Mount Hundere	1982	NQ	2	2
S-73	Mount Hundere	1982	NQ	2	1