Occurrence Details

Occurrence Number: 105F 019
Occurrence Name: Ketza-Ridge
Occurrence Type: Hard-rock
Status: Deposit
Date printed: 12/16/2025 5:58:24 AM

General Information

Primary Commodities: gold, silver
Secondary Commodities: arsenic
Aliases: Ridge, Peel, Ketza
Deposit Type(s): Manto Au
Location(s): 61°32'17" N - -132°16'16" W
NTS Mapsheet(s): 105F09
Location Comments: Location digitized from map in 2010 NI43-101 technical report
Hand Samples Available: Yes
Last Reviewed:

Capsule

Work History

Staked as Penguin, Pioneer, Peel, Boom & Moon cl (69364) in 1954 by Conwest Exploration Ltd and Central Patricia Mining Ltd, which explored with surface trenching in 1955, 610 m of shallow packsack drilling in 1956, 1980 m of drilling in 1958 and 1959, and a single 335 m hole in 1960. The drilling proved up to 68 040 tonnes grading 12 g/t Au.

Fringe staking included Dak cl (698ll) to the south in 1954 by Prospectors Airways Company Ltd on behalf of a syndicate including Noranda Mining Ltd and Kerr Addison Gold Mining Ltd; NY and Tee cl (75811) to the north and west in 1961 by G. Dickson, which were staked as BJ, etc cl (79678) in 1962 by Giant Yellowknife Mining Limited; and Top cl (Y74240) in Sept 1973 by G. Fairclough. Prospectors Airways drilled 3 packsack holes (52 m) on the Dak group in 1955.

The key claims were surveyed and taken to lease and the property was transferred to a private company, Ketza River Mining Ltd and examined briefly in 1974 by Nordev Resources Ltd. Ketza River tied on Kon cl (YA56473) in 1980, explored them with mapping and sampling in 1981 and optioned the property to Pacific Trans-Ocean Resources Ltd (Pacific Copper Mining Ltd) in 1983.

Pacific Trans-Ocean entered a joint venture with Canamax Resources Inc and to the end of 1987 explored with ground and airborne geophysical surveys, geochemical surveys, 20 000 m of drilling in 246 holes, 1600 m of drifting on three levels in the Peel & Ridge Zones, and metallurgical testing.

During 1987, nine additional zones (including Knoll, Break, Gully & QB Zones) were tested and a 320 tonne/day mill was built. Initial reserves, at the beginning of mining, were estimated at 495 000 tonnes of oxide ore grading 18 g/t Au and 495 000 tonnes sulphide ore grading 9 g/t Au. Production began in Apr/88 after a capital expenditure of $27 million. Production in 1988 was 86 664 tonnes containing 635 349 g Au and 6 804 g Ag with gold recovery of 87%.

In 1989 the Kon claims were transferred to Canamax which conducted 3983.2 m of surface diamond drilling (mostly on the Gully, Tarn and Knoll Zones) later that year. Production in 1989 totaled 1 337 115 g Au, and a further 1 139 943 g Au was produced between January and September 1990. Much of the production came from underground workings at the Peel and Ridge Zone but approximately 40% was oxide ore grading 9.9 g/t Au which was mined from open pits at the Break and NU zones (one pit), the QB vein, and the uppermost Ridge, Tarn, Gully and Knoll zones. The mine was shut down in September, 1990.

Canamax covered the north extension of the QB zone with more Kon claims (YB33222) in 1991. Hemlo Gold Mines Inc staked Kon cl 19-20 (YB45994) in the same area in 1993 and prospected, mapped and trenched on the Shamrock zone.

In February 1992, Wheaton River Minerals Ltd announced an agreement to purchase the mine, mill and related properties. Wheaton River performed geological mapping, prospecting and trenching on several Kon claims in August 1993.

In April 1994, Wheaton River Minerals Ltd sold the Ketza River property to YGC Resources Ltd in return for a controlling interest in YGC following which YGC formed Ketza River Holdings Ltd to hold the Kon claims. In August 1994 Ketza sold all of the Kon claims it considered exploratory to Hemlo Gold Mines Inc. Ketza kept the actual mine, the mill and the Kon and other claims which made up the mine site.

Hemlo Gold Mines dug trenches and removed a total of 8 255 cubic metres in August 1994 on several of its Kon cl (YA70945). Hemlo Gold drilled three diamond drill holes totaling 489.3 m on the Shamrock area (QB, Shamrock and Gully zones) in May and June of 1995. In August 1995 Hemlo Gold transferred all of the Kon claims back to Ketza River Holdings Ltd.

H. Regehr carried out 527 cubic metres of trenching in five areas of Star cl 2-4 located 3 km south of the mine in August 1994. YGC carried out diamond drilling programs in 1994, 1995 and 1996, totaling 11 090 m in 107 holes. In 1997, YGC experienced financial problems related to its largest shareholder BYG Natural Resources Ltd. The property laid dormant from 1998 until 2004.

In April 2005, YGC was relisted on the Toronto Venture Exchange. The company completed 95 diamond drill holes (12 485 m) in 2005 on the Shamrock and Manto zones, and 238 diamond drill holes (29 500 m) in 2006 on the Lab, Tarn, Penguin and Crest targets within the Manto zone. The company also performed trenching on the Nu Zone and channel sampling at the Gully Zone in 2006.
In June 2007, following the acquisition of Queenstake Resources Ltd ,YGC changed its name to Yukon-Nevada Gold Corporation. The company completed 363 diamond drill hole (50 000 m) on the Hoodoo, Penguin, Lab, Tarn, Flint and Nose targets within the Manto Zone as well as Shamrock Zone targets - QB, Mountain Top and Gully. Yukon-Nevada also received its Class "A" Water Use License.

In January 2008 Yukon-Nevada released an updated National Instrument 43-101 compliant resource figure for the entire Ketza River property. The figures are based on a cut-off grade of 1.0 g/t gold for material inside the optimized open pits and 3.0 g/t gold for material mineable by underground methods. Total measured resources for open pit and underground equal 712 200 tonnes grading 6.40 g/t gold while total indicated resources for open pit and underground equal 3 369 500 tonnes grading 4.61 g/t gold. Total measured and indicated resources for open pit and underground equal 4 081 700 tonnes grading 4.93 g/t gold.

Yukon-Nevada continued exploratory drilling at Ketza in 2008 to expand the resource, as well as geotechnical work for mine planning. Diamond drilling was performed on the Peel, Penguin, Tarn, Break and Lab targets in the Manto Zone and QB and Gully targets in the Shamrock zone (30 151 m in 223 holes). In 2009, the company continued compiling data and completed a geophysical survey on the Shamrock Zone.

Work history between 2009 and 2014 not yet summarized.

The company released a resource estimate dated January 25 2010, and the accompanying report is dated June 28 2011 (Yukon Nevada Gold, 2010). The resource includes all results from drilling till the end of 2008. but not the results of the 2009 and 2010 drilling.

In October 2012, the company anounced a name change to Veris Gold Corp.

Capsule Geology

The deposit 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 siliclastics, minor limestone schist, minor amphibolite and marble (Gordey and Makepeace, 1999). The Rosella and Ingenika assemblages/ suites are thought to be intruded at depth by a mid- Cretaceous felsic pluton of the Cassiar Suite (unit mKqC) which caused uplift and served as a source of heat for the mineralizing fluids.

On the Ketza River property, gold occurs in sulphide and oxide replacement manto deposits hosted by Lower Cambrian limestone, and in quartz-sulphide fissure vein and stockwork systems. The mantos occur in massive, crystalline limestone located south of the west-plunging Peel Creek anticline, and the vein and stockwork deposits occur in Lower Cambrian argillite and phyllite on its north limb (Stroshein,1996). Two phases of ductile deformation, followed by thrusting and extension, affected the Ketza River mine area (Fonseca, 1998). An extensional event (D4) coincided with the timing of mineralization. There is no regional equivalent of the D4 event and D4 may represent a brittle response to the emplacement of a pluton (Fonseca, 1998).

Manto type oxide ore was mined underground from the Peel and the Ridge zones (a single orebody deformed by a southeast-overturned fold) between 1988 and 1990, recovering approximately 3.1 million grams of gold. The oxide ore consists of hydrous red ferric oxide (limonite and goethite) and variable amounts of fine clay mixed with quartz fragments. Fine grained free gold can be concentrated from the oxide ore by panning. The oxide material is mostly friable, although a harder, shiny hydrous iron oxide known as "hisingerite" occurs around higher grade ore containing more than 20 g/t Au. The highest grade material in the Peel zone was concentrated in the nose of the fold.

In the Ridge Zone, a relict pyrrhotite-chalcopyrite stockwork, now reduced to boxwork-textured oxide material, forms an envelope around a core of higher grade earthy-textured oxides.

Manto sulphide ore in the Peel zone consists mainly of massive pyrrhotite with 5 to 10% arsenopyrite and 0.5 to 1% chalcopyrite. Pyrite is locally common, but galena and sphalerite are extremely rare. Free gold 0.5 to 25 microns across occurs with native bismuth and chalcopyrite along fractures and sulphide grain boundaries or as inclusions in pyrrhotite and pyrite. The gold content of the deposit is highest in the centre and coincides with a higher proportion of arsenopyrite in the massive sulphide. Contacts between the massive sulphide manto and the wall rocks are sharp and the wall rocks are dolomitized.

Exploration carried out during mining production located 19 additional mineralized zones, including the Gully, QB, Break, Nu, Lab, Tarn and Knoll zones. Oxide ore from the Break, Nu, Tarn, Ridge and Gully and the QB vein was mined in open pits in 1989 and 1990. The Fork zone discovered in 1995 contains an estimated oxide resource of 43 000 tonnes grading 10.1 g/t Au.

Magnetometer and EM surveys were useful for locating sulphide deposits, but only prospecting and close-spaced soil geochemistry (gold only) was successful in locating oxide deposits. In the Shamrock zone, a 1996 diamond drill hole intersected 75.4 m grading 1.56 g/t Au.

In 1997 YGC Resources estimated total current reserves of oxide and sulphide type ores, (all categories), remaining in the immediate area, at 234 000 tonnes grading 10.9 g/t Au. Oxide reserves, all categories, include 16,400 tonnes grading 9.2 g/t Au at the Nu zone and 43,000 tonnes grading 10.1 g/t Au at the Fork Zone. Sulphide reserves, all categories, of the Peel West, Peel East and Lab Zone are estimated at 175,000 tonnes grading 11.94 g/t Au.

In 2004, YGC commissioned a technical report updating the mineral resource on the Ketza River property. Results within the Manto style zones south of the Peel Fault at a 1.0 g Au/t cutoff indicated a total of 5.06 million tonnes averaging 2.98 g Au/t classed as measured plus indicated and an additional 6.27 million tonnes averaging 1.76 g Au/t classed as inferred. Results for the Shamrock zone at a 1.0 g Au/t cutoff indicated a total of 2.59 million tonnes averaging 2.19 g Au/t classed as indicated and an additional 4.03 million tonnes averaging 1.92 g Au/t classed as inferred.

In Jan 2008 Yukon-Nevada released an updated National Instrument 43-101 compliant resource figure for the entire Ketza River property. The figures are based on a cut-off grade of 1.0 g/t gold for material inside the optimized open pits and 3.0 g/t gold for material mineable by underground methods. Total measured resources for open pit and underground equal 712 200 tonnes grading 6.40 g/t gold while total indicated resources for open pit and underground equal 3 369 500 tonnes grading 4.61 g/t gold. Total inferred resources for open pit and underground equal 1 080 000 tonnes grading 3.26 g/t gold. Grade estimations were made using the inverse distance squared estimation method. Unlike previous resource estimates, a hard geologic boundary was used to tightly constrain resource shapes in three dimensions. Four block models were defined for the four zones (Peel, Penguin-Lab, Shamrock and Tarn). Each block model consists of a framework with 5m cube blocks. Wireframes of the 52 mineralized envelopes were used to assign a percentage inside the envelope. Any block with more than 0.5% inside a mineralized envelope was assigned a code corresponding to the wireframe.Work history between 2009 and 2014 not yet summarized.

The company released a resource estimate in a report dated June 28 2011, effective January 25 2010 (Yukon Nevada Gold, 2010). The resource includes all results from drilling till the end of 2008, but not the results of the 2009 and 2010 drilling. Resources for the Peel, Penguin, Lab-Hoodoo, Tarn, Gully, QB and Knoll zones were calculated at Various cut-off grades were used for the varying oxidiation states and potential mining scenarios. Cut-off grades used were: 0.78g/t Au for open pit oxide and 3.44g/t for underground oxide resources; and 1.0g/t Au for open pit sulphide and 4.43g/t Au for underground sulphide resources.

Combined open pit and underground, sulphide and oxide resource is calculated as follows: MEASURED RESOURCE is 167,800 tonnes grading 5.38g/t Au, containing a total of 29,000 oz Au (902 kg), INFERRED RESOURCE: 2,212,300 tonnes grading 5.46g/t Au containing a total of 388,700 oz Au (12,090 kg), and INFERRED RESOURCE: 453,700 tonnes grading 4.62g/t Au containing a total of 67,300 pz (2093kg).

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Work History

Date	Work Type	Comment
12/31/2009	Ground Geophysics	Also resistivity and IP surveys.
12/31/2009	Pre-existing Data	
12/31/2008	Drilling	Two hundred twenty-three holes, 30,151 m. Peel, Penguin, Tarn, Break and Lab targets in Manto Zone. QB & Gully targets in Shamrock zone.
12/31/2007	Drilling	Three hundred sixty holes, 51,104 m. Hoodoo, Penguin, Flint, Lab, Tarn and Nose zones. Gully, QB and Mountain Top at Shamrock Zone
12/31/2006	Geochemistry	Continuous chip and channel samples of pit wall at Tarn Zone.
12/31/2006	Drilling	Two hundred thirty-eight holes, 29, 500 m. Lab, Tarn, Penguin, Crest within the Manto Zone
12/31/2006	Trenching	Floor of pit at Nu Zone
12/31/2005	Drilling	Ninety-five holes, 12,485 m. Shamrock Zone and Manto Zone
12/31/1997	Drilling	Eleven holes, 1,217 m. Testing fork to Nu Zone trend.
12/31/1994	Drilling	Three holes, 489.3 m.
12/31/1994	Trenching	
12/31/1993	Geology	
12/31/1993	Other	
12/31/1993	Trenching	

12/31/1990	Development, Underground	Production continued to end of September.
12/31/1989	Drilling	Twenty holes, 1,353 m. Also drilled a substantial number of percussion drill holes for a total footage (including diamond drill) of 2850 m.
12/31/1988	Development, Underground	Production began.
12/31/1987	Drilling	Sixty-one holes, 5,000 m.
12/31/1987	Drilling	Ninety-five holes, 4,962.8 m.
12/31/1987	Trenching	
12/31/1987	Airborne Geophysics	Also magnetic and VLF surveys over entire property.
12/31/1986	Trenching	
12/31/1985	Drilling	Fifty nine holes, 6,157 m. Drilled 1985-86.
12/31/1985	Geochemistry	
12/31/1984	Geology	
12/31/1984	Geochemistry	
12/31/1981	Geology	
12/31/1981	Geochemistry	
12/31/1974	Other	
12/31/1960	Drilling	Number of holes drilled: 1 Amount of work done: 335 METRES
12/31/1959	Drilling	Thirty-three holes, 1,980 m. Approximately 1 524 m of AX core and 456 m EX core. Number of holes is approximate.
12/31/1956	Drilling	Twenty-two holes, 610 m. Number of holes is approximate.
12/31/1955	Trenching	
1/25/2010	Studies	Yukon-Nevada Gold Corp, Jan 25 2010, report issued June 28 2011.
1/1/2008	Studies	SRK, 2008 Technical Report.

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
095231	2009	Titan-24 Magnetotelluric Direct Current Resistivity and IP Survey over teh Ketza River Project	IP - Ground Geophysics, Resistivity - Ground Geophysics		
091863	1986	1986 Geochemical and Trenching Assessment Report	All Weather Road - Development, Surface, Soil - Geochemistry, Mechanical - Trenching		
062254	1986	Ketza Gold Project	Data Compilation - Pre-existing Data		
091621	1984	Ketza River Property Geochemical and Diamond Drilling Report	Diamond - Drilling, Soil - Geochemistry	22	2424
090953	1981	Report on the Geochemical Survey Conducted on the Kon Claims	Soil - Geochemistry		
018893	1955	Ketza River Area, 1955 Field Season	Rock - Geochemistry, Bedrock Mapping - Geology, Backhoe - Trenching		

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC005259	Claim map - Jonothan option		Property File Collection	Geoscience Map (General)
ARMC005260	Claim group map - Ketza Creek		Property File Collection	Geoscience Map (General)
ARMC005261	Extract from letter - Re: Ketza River group		Property File Collection	Miscellaneous Company Documents
ARMC005262	Extract from letter - Re: Dak option		Property File Collection	Miscellaneous Company Documents
ARMC005263	Report on Ketza River claims		Property File Collection	Report
ARMC005249	Report on the Ketza River (Peel) gold deposits		Property File Collection	Report
ARMC014348	Memorandum by W..J. Rundle - Ketza River claims, Yukon Territory		Property File Collection	Miscellaneous Company Documents
ARMC014349	Summary report Ketsa River area with attached assay report		Property File Collection	Report

ARMC014350	Memos to P.W. Allen re: Ketza River area - Yukon Territory		Property File Collection	Miscellaneous Company Documents
ARMC014343	Map of showing Key 3A - Ketza River area with geology notations		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC014342	Ketza River mineral area map with legend, sample locations and notations - From a map dated Oct 4, 1954 by R.J.M.		Property File Collection	Geoscience Map (General)
ARMC014358	Ketzakey Silver Mines delivery notice showing value of load		Property File Collection	Miscellaneous Company Documents
ARMC014357	Progress report - Toronto, the Noranda area, our claims in the Yukon, and Flin Flon		Property File Collection	Report
ARMC014344	Public prospectus - 1977 - Iona Silver Mines Ltd.		Property File Collection	News Release
ARMC014356	Copy from "Assay certificate" - File no. 44g - 454-2 - Ketsa River Key claims		Property File Collection	Miscellaneous Company Documents
ARMC014355	Copy of a letter to R.M. Belliveau re: Ketsa River mineral claims prospect		Property File Collection	Miscellaneous Company Documents
ARMC020097	Report on 1988 exploration program - Ketza project - Yukon Minerals-Perrex Resources Joint Venture		Property File Collection	Report
ARMC020098	1988 regional program - Ketza project - Yukon Minerals Corporation - NTS 105F/10		Property File Collection	Report
ARMC014346	Correspondence RE: Ketza claims, Stump mines, 'A' Zone		Property File Collection	Miscellaneous Company Documents
ARMC014354	Correspondence re: Ketza River, Yukon Territory to Evan Just		Property File Collection	Miscellaneous Company Documents
ARMC014345	Correspondence RE: Key group of claims - Ketza River		Property File Collection	Miscellaneous Company Documents

Resource/Reserve

Year	Zone	Type	Commodity	Grade	Tonnage	Amount	Reported Amount	43-101 Compliant	Cut-off
2010	all 7 zones- ox & sulph (Open Pit)	Measured	gold	5.3 g/t	161,500	855	Yes	Yes	0.78 and 1.0g/t
Yukon-Nevada Gold Corp, Jan 25 2010. Composite of 7 different zones, results of all drilling till end of 2008. Oxide cut-off is 0.78g/t Au and sulphide cut-off is 1.0g/t Au.									
2010	all 7 zones- ox & sulph (Open Pit)	Indicated	gold	5.08 g/t	1,955,400	9931	Yes	Yes	0.78 & 1.0 g/t Au
Yukon-Nevada Gold Corp, Jan 25 2010. Composite of 7 different zones, results of all drilling till end of 2008. Oxide cut-off is 0.78g/t Au and sulphide cut-off is 1.0g/t Au.									
2010	all 7 zones- ox & sulph (Open Pit)	Inferred	gold	4.41 g/t	409,400	1804	Yes	Yes	0.78 & 1.0g/t Au
Yukon-Nevada Gold Corp, Jan 25 2010. Composite of 7 different zones, results of all drilling till end of 2008. Oxide cut-off is 0.78g/t Au and sulphide cut-off is 1.0g/t Au.									
2010	all 7 zones- ox & sulph (Underground)	Measured	gold	7.39 g/t	6,300	46.60	Yes	Yes	3.44 and 4.43gt/ Au
Yukon-Nevada Gold Corp, Jan 25 2010. Composite of 7 different zones, results of all drilling till end of 2008. Oxide cut-off is 3.44g/t Au and sulphide cut-off is 4.43g/t Au.									
2010	all 7 zones- ox & sulph (Underground)	Indicated	gold	8.4 g/t	256,900	2158	Yes	Yes	3.44 & 4.43g/t Au
Yukon-Nevada Gold Corp, Jan 25 2010. Composite of 7 different zones, results of all drilling till end of 2008. Oxide cut-off is 3.44g/t Au and sulphide cut-off is 4.43g/t Au.									
2010	all 7 zones- ox & sulph (Underground)	Inferred	gold	6.56 g/t	44,300	289	Yes	Yes	3.44 & 4.43 g/t Au
Yukon-Nevada Gold Corp, Jan 25 2010. Composite of 7 different zones, results of all drilling till end of 2008. Oxide cut-off is 3.44g/t Au and sulphide cut-off is 4.43g/t Au.									
2010	all 7 zones- ox & sulph- combined OP/ UG (Open Pit and Underground)	Measured	gold	5.38 g/t	167,800	902	Yes	Yes	various
Yukon-Nevada Gold Corp, Jan 25 2010. Composite of 7 different zones, results of all drilling till end of 2008. Open pit and Underground cut-off grades are respectively 0.78g/t and 3.44g/t for oxide, and 1.0 and 4.43g/t Au for sulphide.									
2010	all 7 zones- ox & sulph- combined OP/ UG (Open Pit and Underground)	Indicated	gold	5.46 g/t	2,212,300	12090	Yes	Yes	various
Yukon-Nevada Gold Corp, Jan 25 2010. Composite of 7 different zones, results of all drilling till end of 2008. Open pit and Underground cut-off grades are respectively 0.78g/t and 3.44g/t for oxide, and 1.0 and 4.43g/t Au for sulphide.									
2010	all 7 zones- ox & sulph- combined OP/UG (Open Pit and Underground)	Inferred	gold	4.62 g/t	453,700	2093	Yes	Yes	various
Yukon-Nevada Gold Corp, Jan 25 2010. Composite of 7 different zones, results of all drilling till end of 2008. Open pit and Underground cut-off grades are respectively 0.78g/t and 3.44g/t for oxide, and 1.0 and 4.43g/t Au for sulphide.									
2008	TOTAL INDICATED - ENTIRE PROPERTY (OPEN PIT & UNDERGROUND)	Indicated	gold	4.61 g/t	3,369,500		No	Yes	1 and 3g/t Au
Report breaks down figure by zones. Using 1.0 g/t gold cut-off open pit, 3.0 g/t gold cut-off underground.; SRK ConsultingApril 14 2008.									
2008	TOTAL MEASURED - ENTIRE PROPERTY (OPEN PIT & UNDERGROUND)	Measured	gold	6.4 g/t	712,200		No	Yes	1 and 3 g/t Au
Report breaks down figure by zones. Using 1.0 g/t gold cut-off open pit, 3.0 g/t gold cut-off underground.; SRK Consulting, April 2008.									
2007	KETZA RIVER - SULPHIDE RESOURCE (UNDERGROUND)	Inferred	gold	3.26 g/t	1,080,000		No	Yes	Unknown
SRK Consulting. NI 43-101 Technical Report, April 2008									
2007	KETZA RIVER - SULPHIDE RESOURCE (UNDERGROUND)	Indicated	gold	4.61 g/t	3,369,500		No	Yes	Unknown
SRK Consulting. NI 43-101 Technical Report, April 2008									
2007	KETZA RIVER - SULPHIDE RESOURCE (UNDERGROUND)	Measured	gold	6.4 g/t	712,200		No	Yes	Unknown

SRK Consulting. NI 43-101 Technical Report, April 2008									
2005	Ketza - Manto (UNDERGROUND)	Inferred	gold	2.37 g/t	10,550,000		No	Yes	Unknown
Giroux Consultants Ltd.									
2005	Ketza - Manto (UNDERGROUND)	Indicated	gold	2.84 g/t	4,540,000		No	Yes	Unknown
Giroux Consultants Ltd.									
2005	Ketza - Manto (UNDERGROUND)	Measured	gold	3.54 g/t	1,410,000		No	Yes	Unknown
Giroux Consultants Ltd.									
2004	SHAMROCK (UNDERGROUND)	Inferred	gold	1.92 g/t	4,030,000		No	Unknown	Unknown
Multiple figures at a variety of cutoffs grades were reported. The figures shown here are for those reported at a cutoff grade of 1.0 g Au/t.; Mineral Resource Estimate - Ketza River Project by G.H. Giroux, Giroux Consultants Limited.									
2004	SHAMROCK (UNDERGROUND)	Indicated	gold	2.19 g/t	2,590,000		No	Unknown	Unknown
Multiple figures at a variety of cutoffs grades were reported. The figures shown here are for those reported at a cutoff grade of 1.0 g Au/t.; Mineral Resource Estimate - Ketza River Project by G.H. Giroux, Giroux Consultants Limited.									
2004	MANTO (UNDERGROUND)	Inferred	gold	1.76 g/t	6,270,000		No	Unknown	Unknown
Multiple figures at a variety of cutoffs grades were reported. The figures shown here are for those reported at a cutoff grade of 1.0 g Au/t.; Mineral Resource Estimate - Ketza River Project by G.H. Giroux, Giroux Consultants Limited.									
2004	MANTO (UNDERGROUND)	Indicated	gold	2.57 g/t	3,040,000		No	Unknown	Unknown
Multiple figures at a variety of cutoffs grades were reported. The figures shown here are for those reported at a cutoff grade of 1.0 g Au/t.; Mineral Resource Estimate - Ketza River Project by G.H. Giroux, Giroux Consultants Limited.									
2004	MANTO (UNDERGROUND)	Measured	gold	3.43 g/t	1,210,000		No	Unknown	Unknown
Multiple figures at a variety of cutoffs grades were reported. The figures shown here are for those reported at a cutoff grade of 1.0 g Au/t.; Mineral Resource Estimate - Ketza River Project by G.H. Giroux, Giroux Consultants Limited.									
1997	KETZA RIVER - SULPHIDE RESOURCE (UNDERGROUND)	Historical Estimate	gold	11.94 g/t	175,000		No	No	Unknown
Gold grade calculated by weighted average.Peel East zone = 1000,00 tonnes @ 10 g/t Au, Peel West zone =35,000 tonnes @ 12.0 g/t Au, Lab zone = 28,000 tonnes @ 15.0 g/t Au, Peel East zone = 12,000 tonnes at 12.0 g/t Au.; YGC Resources Ltd, Annual Report 1996, p. 4.									
1997	KETZA RIVER - OXIDE RESERVES (UNDERGROUND)	Historical Estimate	gold	9.75 g/t	59,000		No	No	Unknown
Gold grade calculated by weighted average. Reserve type was not defined by company. Fork zone = 43,000 tonnes @ 10.1 g/t Au, Nu zone = 16,000 tonnes @9.2 g/t. Figures do not meet National Instrument 43-101 standards.; YGC Resources Ltd, Annual Report 1996, p. 4.									
1992	KETZA RIVER - OXIDE RESERVES (UNDERGROUND)	Historical Estimate	gold	9.7 g/t	16,400		No	No	Unknown
Remaing proven, probable and possible oxide reserves remaining at shut down. Figures do not meet National Standard 43-101 standards. For information only.; Yukon Exploration 1990, p. 6. Also Mines and Mineral Activities 1990 (DIAND), p. 8.									
1992	KETZA RIVER - SULPHIDE RESOURCE (UNDERGROUND)	Historical Estimate	gold	11.3 g/t	175,000		No	No	Unknown
Probable and possible sulphide reserves remaining at shut down. Figures do not meet National Instrument 43-101 standards. For information only.; Yukon Exploration 1990, p. 6. Also Mines and Mineral Activities 1990 (DIAND), p. 8.									
1988	KETZA RIVER - OXIDE RESERVES (UNDERGROUND)	Historical Estimate	gold	15.14 g/t	93,374		No	No	Unknown
Reserves remaining after first year of production. Not Defined Mineral Resource = Proven and Probable Reserves, Not Defined Mineral Resources = Possible Reserves. Figures don't meet National Instrument 43-101 Standards.; Canamax Resources Inc Annual Report 1988, p. 8.									
1988	KETZA RIVER - OXIDE RESERVES (UNDERGROUND)	Historical Estimate	gold	13.07 g/t	137,032		No	No	Unknown
Reserves remaining after first year of production. Not Defined Mineral Resource = Proven and Probable Reserves, Not Defined Mineral Resources = Possible Reserves. Figures don't meet National Instrument 43-101 Standards.; Canamax Resources Inc Annual Report 1988, p. 8.									
1988	KETZA RIVER - SULPHIDE RESOURCE (UNDERGROUND)	Historical Estimate	gold	10.68 g/t	479,086		No	No	Unknown
Reserves remaining after first year of production. Not Defined Mineral Resources = Possible Reserves. Figures don't meet National Instrument 43-101 Standards.; Canamax Resources Inc Annual Report 1988, p. 8.									
1987	KETZA RIVER - SULPHIDE RESOURCE (UNDERGROUND)	Historical Estimate	gold	9 g/t	495,000		No	No	Unknown
Type of reserve not stated. Total sulphide reserves at beginning of mining. Majority of reserves located underground.; Paper by S. Abercrombie in GSC Open File 2169, p. 259. Also thesis by J.A. Steveley, 1992 p. 1.									
1987	KETZA RIVER - OXIDE RESERVES (UNDERGROUND)	Historical Estimate	gold	18 g/t	495,000		No	No	Unknown
Type of reserve not stated. Total oxide reserves at beginning of mining. Majority of reserves located underground.; Paper by S. Abercrombie in GSC Open File 2169, p. 259. Also thesis by J.A. Steveley, 1992 p. 1.									
1985	KETZA RIVER - OXIDE RESERVES (UNDERGROUND)	Historical Estimate	gold	17.49 g/t	390,094		No	No	Unknown
Company considered these figures drill indicated geological reserves. Mainly underground with minor open pit tonnage. From Peel and Ridge zones.; Assessment report #062254, p. 7. Ridge zone = 117,936 tonnes @ 17.15 g/t Au. Peel zone = 272,158 tonnes @ 17.83 g/t Au.									
1985	KETZA RIVER - SULPHIDE RESOURCE (UNDERGROUND)	Historical Estimate	gold	16.46 g/t	176,903		No	No	Unknown
Company considered this figure drill indicated geological reserve. Located entirely in Peel zone.; Assessment Report #062254, p. 7.									
1961	KETZA RIVER - SULPHIDE RESOURCE (UNDERGROUND)	Historical Estimate	gold	12 g/t	68,040		No	No	Unknown
Drill indicated reserves, not defined by company. Based on sampling and 75 AX and packsack drill holes. Peel and Ridge zones.; Assessment Report # 091621, p. 3. Also thesis by J.A. Staveley, 1992, p. 1.									

Production

Date	Commodity	Amount	Comment

6/30/1998	Au	145.50 kilograms	Pre-production March to June 1988
11/30/1990	Au	2902 kilograms	July 1988 to November 1990