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LOCATION: LAT.: 62°15'N AREA: Big Creek

LONG.: 137°03'W VALUE \$: 96 800.00

CLAIM NAME & NO.: NUCLEUS 1-141 (YA51189-222; YA60256-71; YA82735-74; YA910-960)
MEC 1-8 (YA93679-86); ERL 118-274 (YA 92451-599, YA93132-37)

WORK DONE BY: T. Becker and W.D. Eaton

WORK DONE FOR: Big Creek Resources Ltd, option from Chevron Minerals Ltd

DATE TO GOOD STANDING:

REMARKS: #64 NUCLEUS
Gold in clay-altered porphyry and Paleozoic? schist west of Mechanic Creek. Previous drilling has outlined 4.3 million tonnes of oxide grading 1 g/t Au. 1989 drilling tested the porphyry copper-gold potential beneath the oxide cap. A 38 m zone of supergene enrichment was encountered between 60 and 98 m in hole # 89-1, grading 0.52% Cu and 0.86 g/t Au.

092831

ARCHER, CATHRO

& ASSOCIATES (1981) LIMITED

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NUCLEUS PROPERTY
1989 FINAL REPORT



BIG CREEK AREA, YUKON TERRITORY
Latitude 62°20'N; Longitude 137°20'W
NTS 115I/5&6

T.C. Becker, B.Sc.

D. Eaton, B.A., B.Sc.

December, 1989

092831

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INTRODUCTION

The Nucleus gold-copper property is owned by Chevron Minerals Ltd. and is under option to Big Creek Resources Ltd. (Big Creek) which can earn a 50% interest. The 1989 exploration program was funded by Big Creek and consisted of nine bulldozer trenches totalling 1270 m and six diamond drill holes totalling 591.9 m. The work was conducted between August 28 and October 1 from a camp 5 km east of the property. D. Eaton supervised the program while T. Becker was the project geologist and field manager. Appendix A contains the Authors' Statements of Qualifications and Appendix B lists personnel who worked on the project.

HISTORY

The Big Creek area has been explored for placer gold intermittently since the early 1900's and for in situ mineralization since the 1930's.

The eastern part of the present Nucleus property and most of the adjacent Revenue property were first staked in 1968 by Yukon Revenue Mines Ltd., which explored with grid soil geochemistry and IP surveys later that year. In 1970, Kaiser Resources Ltd. optioned the claims and drilled a wide spaced grid of percussion and diamond drill holes that tested for porphyry-type copper mineralization. Only two holes were on the Nucleus property and they returned discouraging results.

Cominco staked most the western part of the property in 1969 and soil sampled in 1970. The area was restaked in 1974 by Klotassin Joint Venture (Newconex Canada Exploration Ltd., Marietta Resources International Ltd. and Molybdenum Corporation of America) which performed soil sampling and minor bulldozer trenching in 1975. These programs outlined weak to moderate copper geochemical anomalies and discovered float containing traces of malachite.

Nat Joint Venture (Chevron and Armco) staked the eastern part of the Nucleus claim block in 1980. Chevron later purchased Armco's interest and acquired additional claims to the west. From 1980 to 1986, the property was explored with grid and reconnaissance soil geochemistry, geophysical surveys, bulldozer trenching and diamond drilling (3 holes totalling 315.2 m). This work showed that the area is more deeply weathered than previously suspected and identified two zones of widespread, low grade gold mineralization (called Anomalies 1 and 2) in an approximately 60 m thick leached cap, and suggested the presence of an underlying porphyry-type copper-gold system.

In 1987, Big Creek optioned the property and formed a joint venture with Rexford Minerals Ltd. The joint venture cut a few bulldozer trenches later that year and drilled 35 reverse circulation percussion holes totalling 1283 m in 1988. The drill program consisted of shallower, close spaced holes in the core of Anomaly 2 and was designed to determine average grade and suitability of near surface gold mineralization for heap leach mining. Earlier grade and tonnage estimates were confirmed but planned metallurgical tests were not performed due to inadequate financing. Rexford sold its interest in the property to Big Creek in spring 1989.

PROPERTY, LOCATION AND ACCESS

The property consists of 253 contiguous mineral claims registered with the Whitehorse Mining Recorder as follows.

<u>Claim Name</u>		<u>Grant Number</u>	<u>Expiry Date*</u>
Nucleus 1-12	12	YA51189-YA51200	February 19, 1993
Nucleus 13-18	6	YA51201-YA51206	February 19, 1994
Nucleus 19-34	16	YA51207-YA51222	February 19, 1993
Nucleus 35-50	16	YA60256-YA60271	March 1, 1993
Nucleus 51	1	YA82735	February 19, 1993
Nucleus 52F	1	YA82736	February 19, 1993
Nucleus 53-90	38	YA82737-YA82774	February 19, 1993
Nucleus 91-102	12	YA82910-YA82921	February 19, 1993
Nucleus 103-104	2	YA82922-YA89223	February 19, 1990
Nucleus 105-115	11	YA82924-YA82934	February 19, 1993
Nucleus 116	1	YA82935	February 19, 1990
Nucleus 117	1	YA82936	February 19, 1993
Nucleus 118	1	YA82937	February 19, 1990
Nucleus 119	1	YA82938	February 19, 1993
Nucleus 120-126	7	YA82939-YA82945	February 19, 1990
Nucleus 127-141	15	YA82946-YA82960	February 19, 1993
MEC 1-8	8	YA93679-YA93686	February 19, 1993
ERL 116	1	YA92451	April 2, 1993
ERL 118	1	YA92453	April 2, 1993
ERL 120	1	YA92455	April 2, 1993
ERL 138-150	13	YA92473-YA92485	April 2, 1993
ERL 164-178	15	YA92499-YA92513	April 2, 1993
ERL 191-206	16	YA92524-YA92539	April 2, 1993
ERL 216-234	19	YA92547-YA92565	April 2, 1993
ERL 237-268	32	YA92568-YA92599	April 2, 1993
ERL 269-274	6	YA93132-YA93137	April 2, 1993
	<u>253</u>		

*Does not include 1989 assessment credits.

The claims are located at latitude 62°20'N and longitude 137°20'W within NTS claim sheets 115I/5 and 6. They lie 63 km west-northwest of Carmacks and are accessible from early spring to late fall by an 80 km gravel road maintained by the Yukon Territorial Government, as shown on Figure 1. Direct access to the main areas of interest is provided by some 3.5 km of four-wheel drive roads.

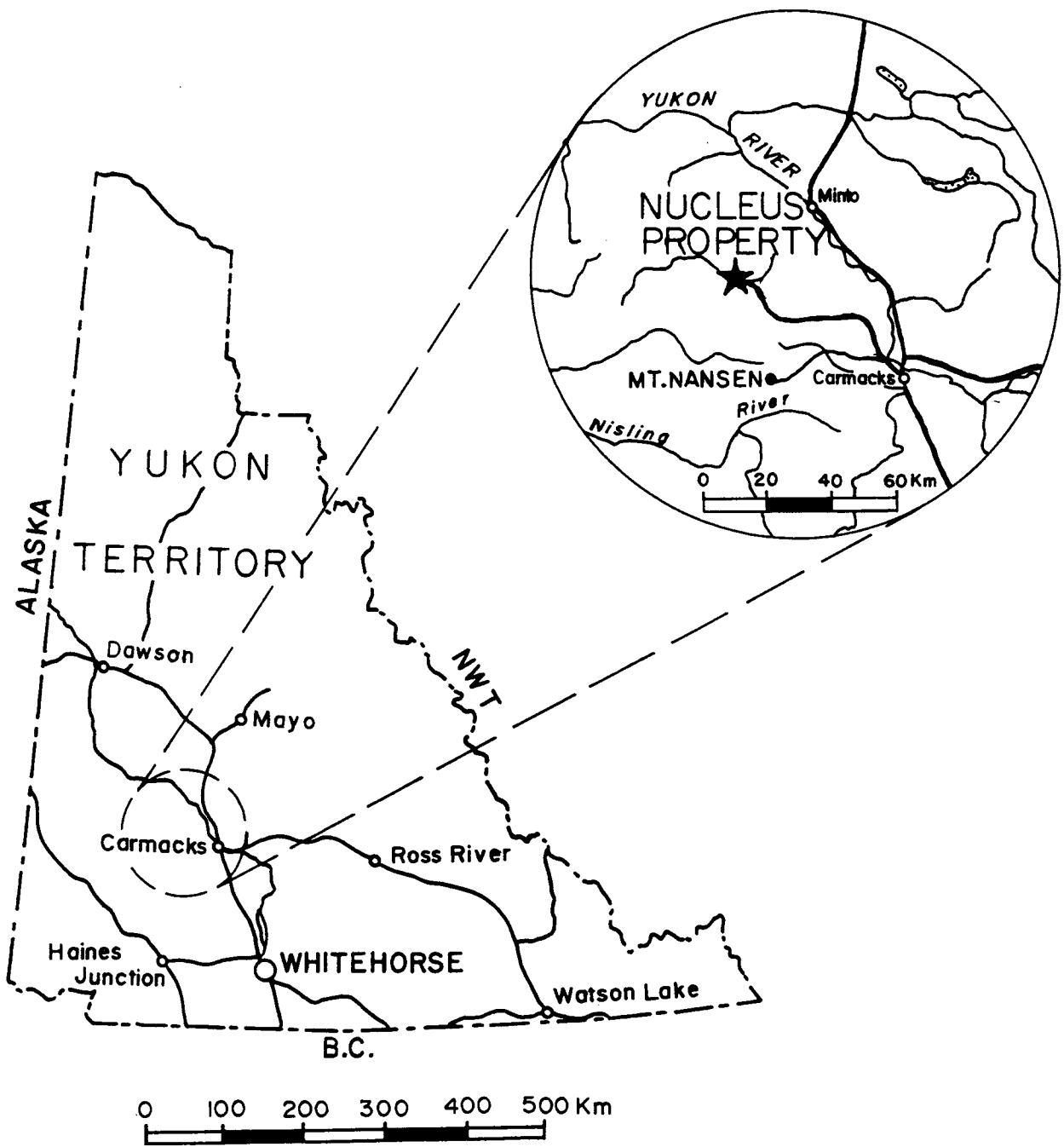


Figure 1
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

LOCATION MAP

NUCLEUS PROPERTY

BIG CREEK RESOURCES LTD.

CHEVRON MINERALS LTD.

To accompany report dated DEC/89

GEOMORPHOLOGY

The Nucleus property lies within the Dawson Range, an eroded peneplane extending northwest from Carmacks to Dawson. The main drainage in the area is Big Creek which flows into the Yukon River. Local elevations range from 600 m on the floor of the Big Creek Valley to a maximum of 1450 m.

The area was not covered by Pleistocene continental ice sheets but isolated alpine glaciers of the earliest Pleistocene glacial event (Pre-Reid) left glacial and glaciofluvial deposits on parts of the property. Glacial till is thickest in the Big Creek Valley and thins upslope to an elevation of about 825 m, above which it has been eroded except for a few large boulders. Post-glacial lacustrine and fluvial deposits overlie the till and form a broad terrace along the south side of the Big Creek Valley.

The soil profile typically consists of 5 to 10 cm of organics overlying 0 to 10 cm of white volcanic ash, 30 to 150 cm of buff or red-brown soil and 100 to 200 cm of decomposed bedrock fragments mixed with soil. Strong solifluction is common on hillsides. The volcanic ash was derived from eruptions in the Wrangell Mountains, 200 km southwest of Nucleus, about 1200 years ago. Drilling indicates that surface weathering ranges from 1 m to greater than 90 m in depth, depending on bedrock permeability.

North- and west-facing slopes on the property are vegetated with stunted black spruce and thick moss, while south- and east-facing slopes are covered by more mature spruce and aspen. Permafrost is extensive, particularly at lower elevations and on north- or west-facing slopes.

GEOLOGY

General

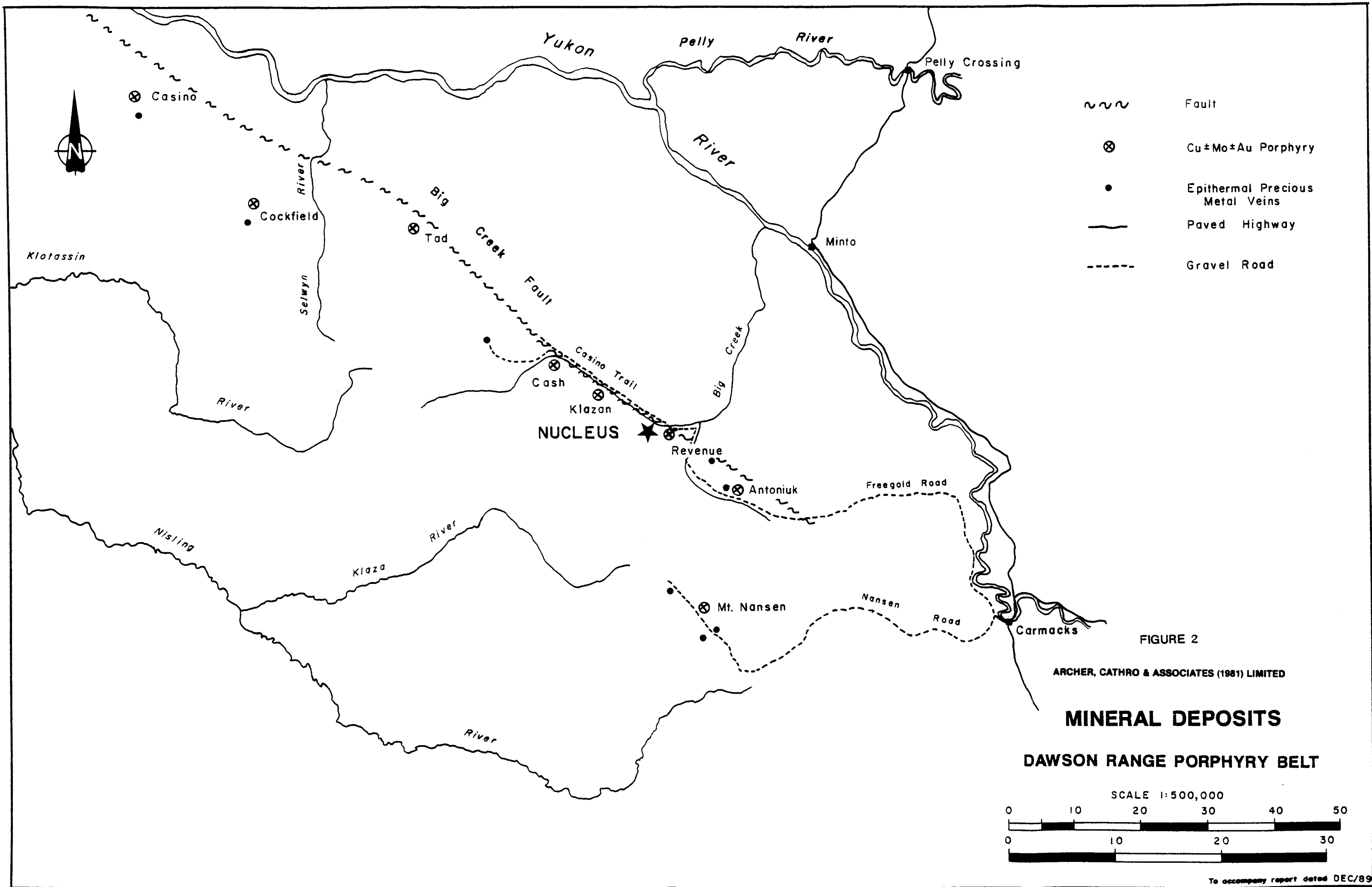
The claims cover part of a mid-Cretaceous intrusive centre, which is one of several igneous complexes in a northwest-trending, 85 km long belt developed along the south side of the Big Creek Fault, a major structural feature of uncertain origin. The igneous complexes range from coarse-grained stocks through finer-grained porphyry dykes and breccia pipes to occasional volcanic flows and tuffs. These rocks cut Paleozoic metamorphic rocks, Pre-Jurassic foliated intrusions and Jurassic unfoliated intrusions. A series of porphyry copper ± molybdenum ± gold deposits and associated precious metal veins occur at 10 to 20 km intervals along the belt, beginning with the Antoniuk deposit in the southeast and ending at the Casino deposit in the northwest, as shown on Figure 2.

Property geology is illustrated on Figure 3 and is summarized as follows.

Lithology

The basement metamorphic assemblage consists of Paleozoic metasedimentary and metaplutonic rocks including quartz-feldspar-mica schist, quartz-feldspar-chlorite gneiss, quartz-feldspar gneiss, amphibolite, quartzite and rare limestone lenses. All rocks have a distinct foliation, weather recessively and show alteration of mica, feldspars and mafic minerals to clay and chlorite within the supergene zone and adjacent to intrusive bodies. On the property, metamorphic rocks occur as large roof pendants and smaller xenoliths within intrusions.

Big Creek Syenite is Jurassic in age and forms a large batholith in the southwestern part of the property. It is resistant weathering, coarse grained and often porphyritic, and is comprised primarily of orthoclase and hornblende.



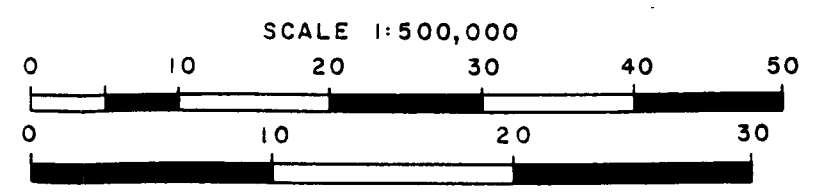
- ~~~~ Fault
- ⊗ Cu±Mo±Au Porphyry
- Epithermal Precious Metal Veins
- Paved Highway
- - - Gravel Road

FIGURE 2

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

MINERAL DEPOSITS

DAWSON RANGE PORPHYRY BELT



No syenite xenoliths have been seen in the younger igneous complex, suggesting that the two units may be in fault contact.

The oldest rocks of the Cretaceous igneous complex belong to the Coffee Creek Granite and Casino Granodiorite. These units are both medium- to coarse-grained, equigranular, and non-foliated. The Coffee Creek Granite is restricted to the northern edge of the property and is a mixture of orthoclase, plagioclase and quartz with rare mafic minerals. The Casino Granodiorite occurs throughout the property and is more variable in composition. In the western part, it is a true granodiorite but in the eastern part it is actually monzonite ranging between two end members: one containing greater than 10% quartz with less than 5% biotite; and, the other little or no quartz and up to 15% biotite.

Microgranite is confined to the main area of interest in the eastern part of the property. It is a tan to pale green, fine-grained, extremely felsic rock containing between 1 and 5%, small (1 to 5 mm), euhedral plagioclase phenocrysts in a matrix of anhedral quartz and feldspar. Biotite originally comprised up to 3% of the rock but is generally altered to chlorite. The unit is often highly fractured and brecciated near contacts and typically exhibits flow banding and quartz veinlets. Flow banded microgranite is difficult to distinguish from altered and bleached metamorphic rocks, especially when the rocks are weathered. Xenoliths of coarse-grained monzonite occasionally are found within the microgranite.

The youngest rocks are hypabyssal porphyritic intrusions that occur as dykes and plugs throughout the property. They are variable in composition ranging from quartz-feldspar porphyry through feldspar porphyry to feldspar-biotite-hornblende porphyry. In the main area of interest, the

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porphyry forms a sheeted dyke complex and consists of 5 to 15% feldspar and quartz phenocrysts in a tan, nearly aphanitic, locally flow banded matrix. Argillic alteration of feldspar is common. The dykes cut all other units and are often too narrow to show on property-scale maps.

Alteration

Alteration minerals are primarily controlled by host rock lithology, while intensity of alteration is directly related to the degree of fracturing and brecciation. Four alteration zones have been identified on the property.

The most significant is a 1000 m long, 30 to 200 m wide, north-trending zone that approximately coincides with the dyke complex in Anomaly 2. Quartz-feldspar porphyry within this zone usually exhibits intense argillic alteration and is occasionally cut by chalcedonic quartz veins. Microgranite contains an extensive stockwork of hairline to 3 cm thick quartz veins that are surrounded by pervasive sericite or clay alteration envelopes. Metasedimentary rocks are less affected by alteration, but in highly fractured areas they are often bleached to a pale green or tan colour and cut by quartz veinlets. In most rock types, supergene clay alteration overprints original hypogene alteration.

A second zone occurs 600 m southwest of the main zone while a third lies 200 m to the northwest. The southwesterly zone covers a 100 by 400 m area and consists of strongly bleached schist mixed with intensely clay altered and occasionally silicified porphyry dykes. The other zone is approximately 100 m in diameter and is confined to microgranite which exhibits intense phyllic and argillic alteration without quartz veining.

The fourth and largest zone is located 1200 m northwest of Anomaly 2 and consists of a 1000 m in diameter area of argillic and phyllic alteration centred on a porphyry plug with associated dyke swarms.

Structure

The dominant structure in the area is the Big Creek Fault which strikes northwesterly and dips approximately 70° toward the southwest. Direction and magnitude of offsets on the fault are not known. Most subsidiary structures are aligned subparallel to the Big Creek Fault or have a northerly trend. In the main area of interest, a series of mineralized faults and breccia zones strike north-northwesterly and dip vertically to 70° toward the west.

MINERALIZATION

The main mineral occurrences on the property are the Anomaly 1 and 2 zones west of Mechanic Creek. Anomaly 1 has only been explored by trenching while Anomaly 2 has received drilling and trenching. Figures 4 and 5 show trench geology and assays, respectively.

The mineralization occurs as disseminations and fracture fillings in broad stockwork and breccia zones developed within porphyry dyke swarms and adjacent altered wallrocks. Deep surface weathering has produced marked vertical zonation consisting of a strongly oxidized, approximately 60 m thick, leached cap containing gold without other economic metals and an underlying supergene blanket containing copper with gold and minor silver. Presumably, hypogene mineralization is present below the supergene blanket but none of the holes has been drilled deep enough to reach the zone of primary sulphides.

Pre-1989 trenching and drilling within the leached cap indicates that Anomalies 1 and 2 contain approximately 4.1 million tonnes grading 1.03 g/t Au to a depth of 60 m. Typical values within these zones range from 0.3 to 2.1 g/t Au. They occur in a 10 to 150 m wide, north-northwest trending band that has been traced 400 m along strike. The best values (up to 44.71 g/t Au over 3.5 m from a trench and 35.72 g/t Au over an intersected length of 13.7 m in a percussion drill hole) are associated with less than 1 m wide, steeply-dipping chalcedonic veins and stockworks within the broader band of lower values. Close spaced drilling has shown that these zones are often localized along geological contacts and that the gold is erratically distributed. Although there is a good correlation between silver and gold in the leached cap, the average silver-to-gold ratio is low, averaging less than 1 to 1. Geochemically anomalous quantities of bismuth and arsenic are associated with the gold in the leached cap. Copper within the leached cap ranges from about 50 ppm at surface to approximately 500 ppm near the base.

Porphyry-type copper-gold mineralization was first identified in 1984 when drill hole DN84-1 penetrated beneath the leached cap in Anomaly 2 and intersected the top of a supergene blanket at a depth of 77.7 m vertically below surface. Assays from the last 6.1 m of the hole averaged 0.31% Cu and 0.53 g/t Au. Mineralization within this zone consists of chalcocite with rare covellite and malachite replacing chalcopyrite and pyrite in nearly vertical, hairline to 3 mm wide veinlets. Total sulphide content is low, normally ranging between 0.5 and 2% of the rock. Silver to gold ratios are slightly higher in the supergene zone, averaging about 3 to 1.

Results from the 1989 program are described in the following section.

TRENCHING AND DRILLING

General

The 1989 bulldozer trenching and diamond drilling program explored in and adjacent to the main area of interest adjoining the eastern property boundary. The work was done with a Caterpillar D-7E bulldozer and Longyear 38 diamond drill, contracted from E. Caron Diamond Drilling Ltd. of Whitehorse. It included nine trenches which exposed 1270 m of bedrock and six holes which were drilled from six separate sites for a total of 591.9 m. Trenching required 95 hours of bulldozer time while drill pad preparation and moves required 44.5 hours. All holes were drilled with HQ equipment. Recovery averaged about 98%, except for Hole DN89-6 which cut highly fractured and clay altered metamorphic rocks and returned only 85% of the core. Greater than normal quantities of drill mud were required during the program due to high permeability in weathered bedrock.

A total of 489 samples was assayed, 252 from trenches and 237 from drill core. Trench samples ranged from 5 to 10 kg in weight and were taken along the trench floors over 1 to 12 m intervals depending upon the degree of alteration and abundance of quartz veining and limonite. All core was split on the property and samples were taken over approximately 2.0 m intervals using geological contacts as boundaries where possible. The remaining core is stored in racks on the property.

All samples were sent to Chemex Labs Ltd. in North Vancouver where they were dried, crushed, and pulverized to approximately -150 mesh before being geochemically analyzed for gold using a neutron activation finish. Drill core samples were also geochemically analyzed for 32 other elements, including copper and silver. Appendix C contains Certificates of Analysis.

Trench Results

Geology exposed in the trenches is illustrated on Figure 4, while trench assays are shown schematically on Figure 5. Complete assay results are tabulated in Appendix D.

The results were disappointing, except for Trench 89N-8 on the south side of Anomaly 2 where samples taken across a series of north-northwest trending breccia and gouge zones containing minor quartz veinlets averaged 1.90 g/t Au across 20 m. Although the other trenches extend at least 1 m into bedrock and exposed a number of narrow porphyry dykes, gouge zones and faults, assays from them were much lower than were obtained from similar structures in adjacent pre-1989 trenches.

Mapping suggests that the breccia and stockworks comprising Anomaly 2 are developed where a number of north-northwest trending faults are intruded by an irregularly shaped porphyry plug and associated dyke swarm. The result is a complex area of mineralization that is stronger on the north side of the plug than the south. The plug itself has an anomalous gold background but contains relatively few values exceeding 0.5 g/t. There are no obvious geological controls at the north or south end of the zone except that the faults and accompanying alteration and mineralization gradually weaken as the distance from the intrusive centre increases. Faults and dykes that lie to the west of the plug and main body of the dyke swarm are generally lower grade and lack continuity.

Drill Results

All four holes drilled in Anomaly 2 returned encouraging gold and/or copper values, as shown in Table 1 which lists the most significant 1989 intersections. The other two holes, which tested gold mineralization in trenches to the south and northwest of Anomaly 2, returned low values throughout. Drill sections, with all copper and gold assays, are shown on Figures 6 to 11 while logs are in Appendix E.

In general, there is a good correlation between geology mapped in trenches and that observed in drill core. Geological contacts exhibit fairly consistent 60° westerly to nearly vertical dips, except in Hole DN89-5 where dips are approximately 85° to the east.

The rocks intersected in the holes can be divided into three principal categories based on degree of oxidation and the type of sulphide minerals that are present. The first category is the leached cap which is located near surface and is virtually devoid of sulphide minerals. Most core and all rocks in the trenches are of this type. The second category is called the transition zone because it contains partially oxidized sulphides. Rocks in this group occur at the base of the leached cap or as isolated zones within it. The third category is the supergene zone which contains primary sulphides that are wholly or partially replaced by supergene minerals, mainly chalcocite. Rocks from the supergene zone were only intersected in Holes DN84-1, DN89-1 and DN89-4. A fourth category that has not yet been intersected on the property is the hypogene zone consisting exclusively of primary sulphide minerals.

The gold grades from drill holes are generally similar or slightly lower than the values in overlying trenches. Although the best assays are normally associated with quartz vein and veinlet fracture and stockwork zones within or along the margin of porphyry dykes, scattered high values were also obtained

TABLE 1
SIGNIFICANT 1989 DRILL HOLE INTERSECTIONS

<u>Hole No.</u>	<u>From (m)</u>	<u>To (m)</u>	<u>Intersected Width (m)</u>	<u>Au (g/t)</u>	<u>Cu (%)</u>	<u>Mineralization Type</u>
89-1	2.4	60.0	57.6	1.13	trace	leached cap
including	39.0	49.1	10.1	3.05	trace	leached cap
	60.0	98.0	38.0	0.86	0.52	supergene
89-2	2.4	37.5	35.1	0.75	trace	leached cap
including	93.0	98.0	5.0	19.17	trace	leached cap
	95.5	98.0	2.5	36.48	trace	leached cap
89-3	6.1	21.5	15.4	0.75	trace	leached cap
89-4	47.0	68.0	21.0	1.17	trace	leached cap
including	47.0	57.0	10.0	1.71	trace	leached cap
	89.0	120.4	31.4	0.41	0.28	supergene
89-5	no significant intersections					
89-6	no significant intersections					

from gouge zones in other units. There is no apparent relationship between high gold values and the abundance of limonite or any sulphide mineral, nor is there any evidence of gold enrichment at surface or within the supergene zone. The longest intersection of consistently high gold values came from the leached cap at the top of Hole DN89-1 which assayed 3.05 g/t Au over 10.1 m, while the highest single interval was from silicified metamorphic rocks in the leached cap of Hole DN89-2 which returned 36.48 g/t Au over 2.5 m.

Minor values in silver, arsenic and bismuth show a strong correlation with gold, while zinc is weakly associated and copper has no direct correlation. Absolute values for silver range up to 111.4 ppm. Copper is the only metal whose distribution clearly indicates remobilization, with depletion in the leached cap and enrichment by a factor of 50 to 1000% in the supergene zone. The average copper value in the leached cap of Hole DN89-1 is 313 ppm over 55.6 m compared to 3570 ppm over 75.2 m in the supergene zone. The highest single interval assayed 7880 ppm Cu over 2 m.

The base of the leached cap (as defined by oxidation of sulphides and geochemical data) is irregular and depends on bedrock permeability. In general, the deepest oxidation occurs in highly fractured feldspar porphyry dykes and the shallowest is in poorly fractured metamorphic rocks. The deepest oxidation observed to date is in Hole DN89-2 which was drilled to 98 m below surface before supergene sulphide minerals were encountered. Additional drilling will be required to accurately determine the average depth of oxidation but, based on available results, 60 m still seems reasonable.

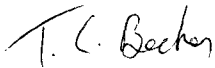
CONCLUSIONS AND RECOMMENDATIONS

The 1989 field program produced mixed results. Trenching and drilling on the periphery of Anomaly 2 did not significantly expand the area of interest and showed that most promising targets outside the zone are relatively low grade and lack continuity. On the other hand, four drill holes that tested Anomaly 2 all produced significant gold assays within the leached cap and two returned long intervals of porphyry-grade copper and gold values in the underlying supergene zone. In addition, one hole cut a band of high grade gold mineralization which is the third such band discovered in the Anomaly 2 Zone.

Future drilling should include at least 4 or 5, 150 m deep holes to further test porphyry copper-gold potential, plus a number of close-spaced holes around the bands of higher grade gold mineralization to determine the continuity of the structures. Metallurgical tests are required to determine whether or not low grade gold mineralization in the leached cap is suitable for heap leaching.

Respectfully submitted,

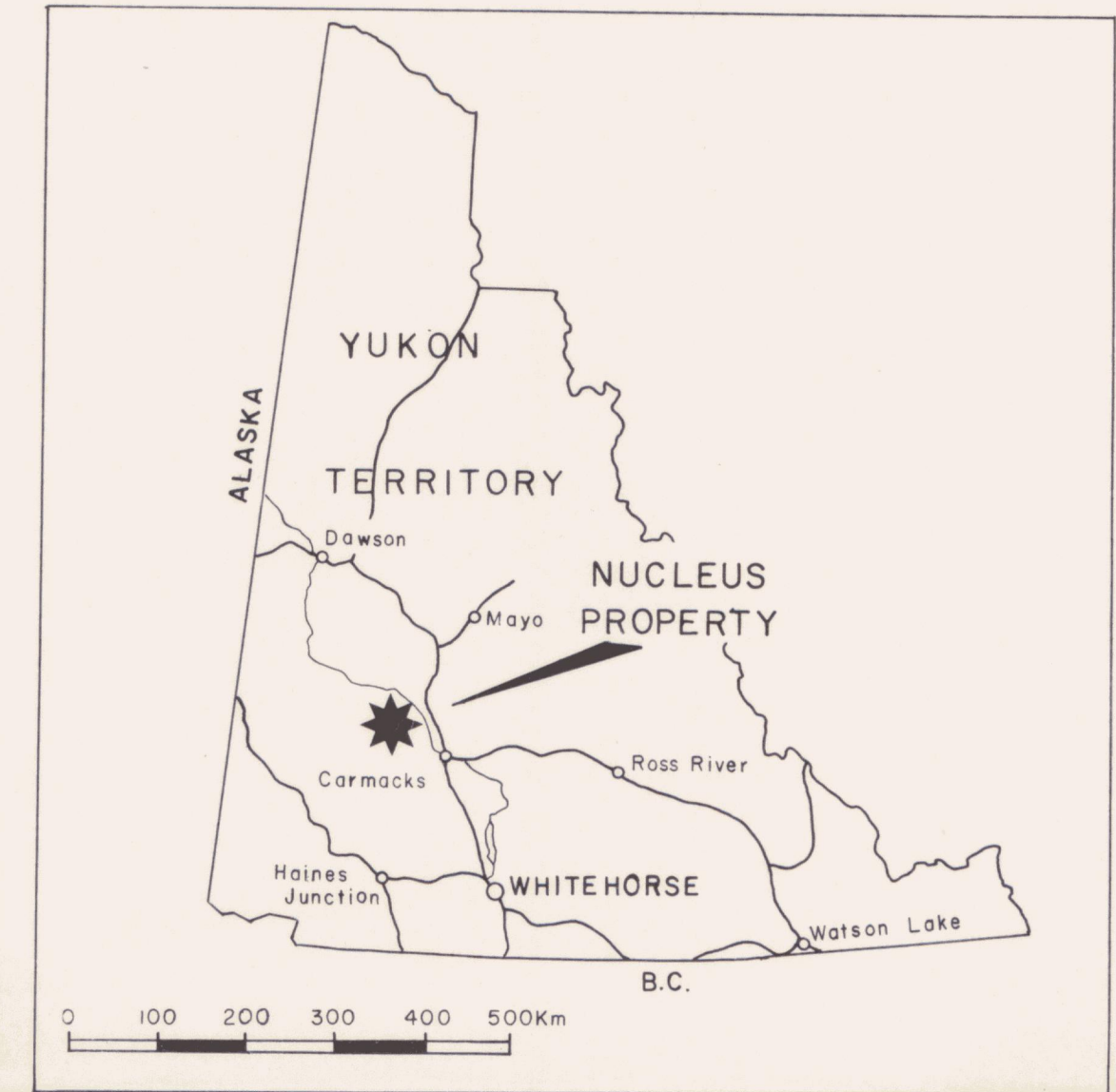
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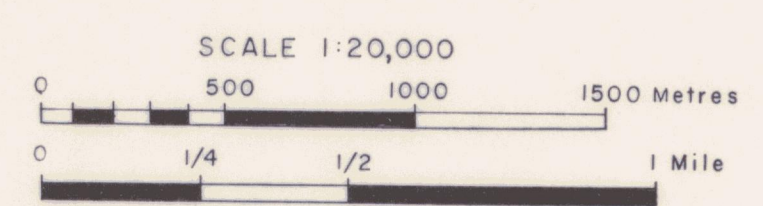
- RECENT
- 7 Glaciofluvial Deposit
- CRETACEOUS
- 6 Quartz Feldspar Porphyry, grades to quartz porphyry (6a), feldspar porphyry (6b), and feldspar-biotite-hornblende porphyry (6c)
 - 5 Microgranite
 - 4 Casino Granodiorite
 - 3 Coffee Creek Granite
- JURASSIC
- 2 Big Creek Syenite
- PALEOZOIC OR OLDER
- 1 Basement Metamorphic Assemblage
- Approximate Geological Contact
- ~ Fault
- ☞ Phylitic and/or Argillitic Alteration Zone
- ▨ Placer Workings
- ▤ Property Boundary
- ⊕ Cu Mineral Occurrence and Metal (f-float)

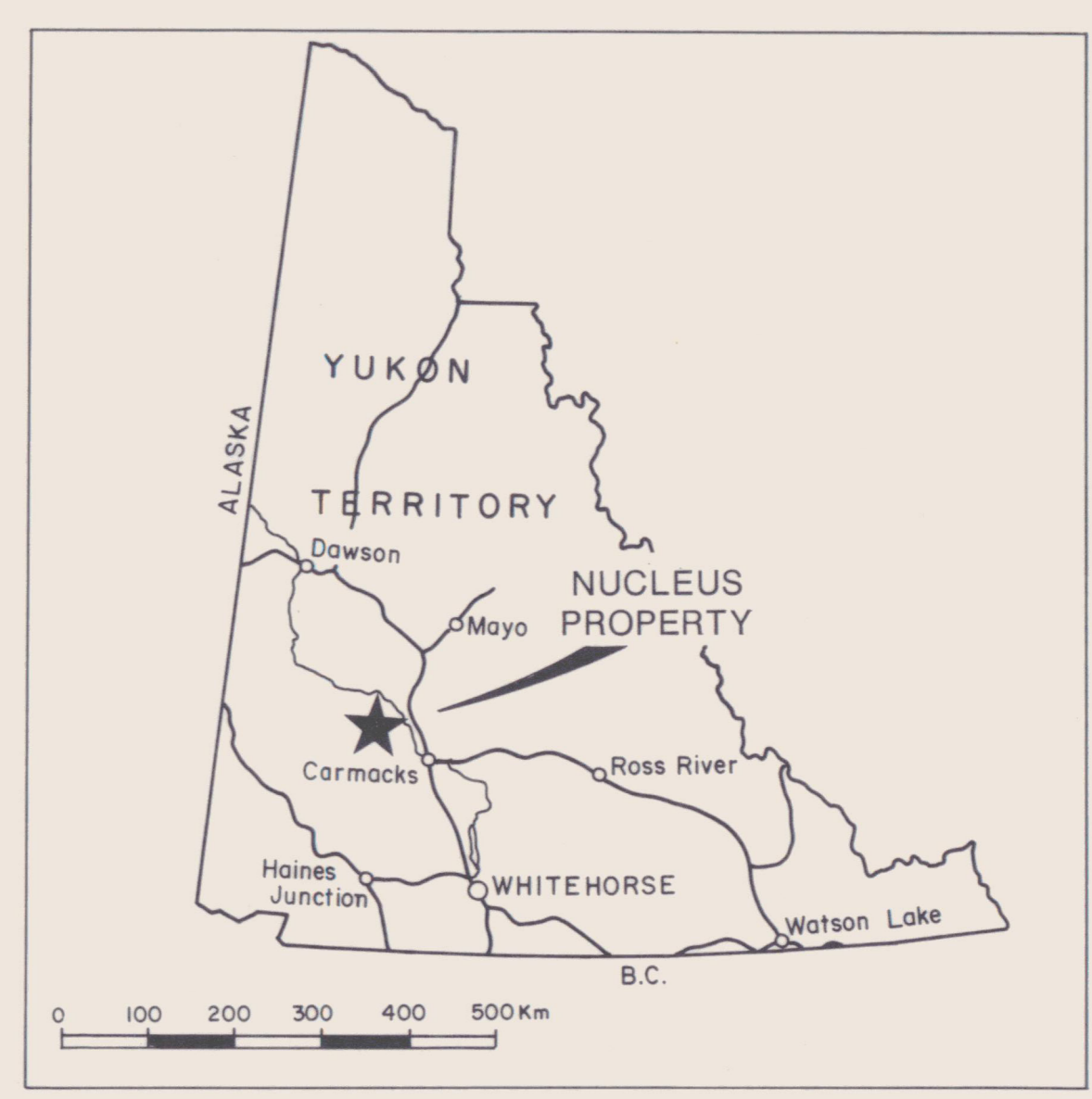
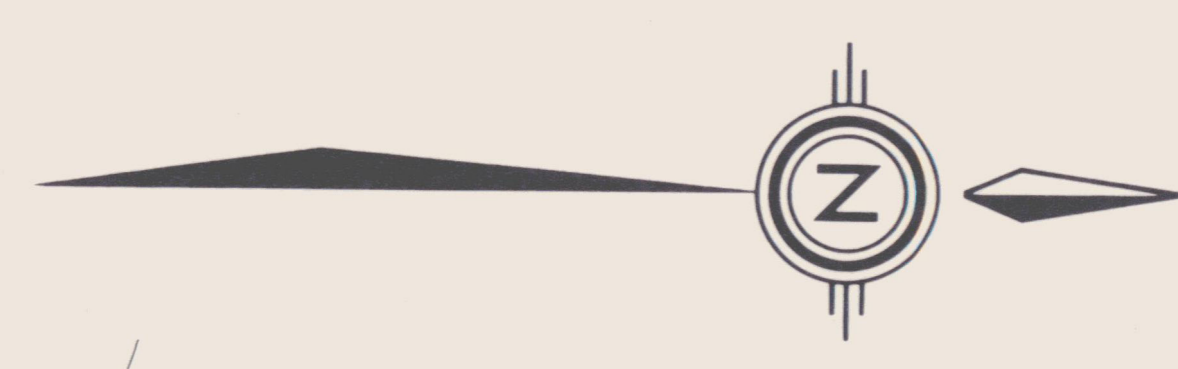
Figure 4
1989 Nucleus Final Report

Dec 13/89
T.C. Baden

FIGURE 3
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

377
1151.6
PROPERTY GEOLOGY
NUCLEUS PROPERTY
BIG CREEK RESOURCES LTD. / CHEVRON MINERALS LTD.

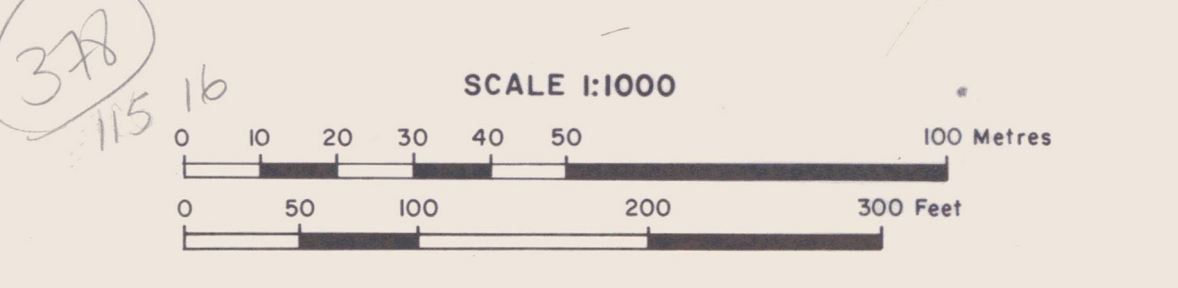




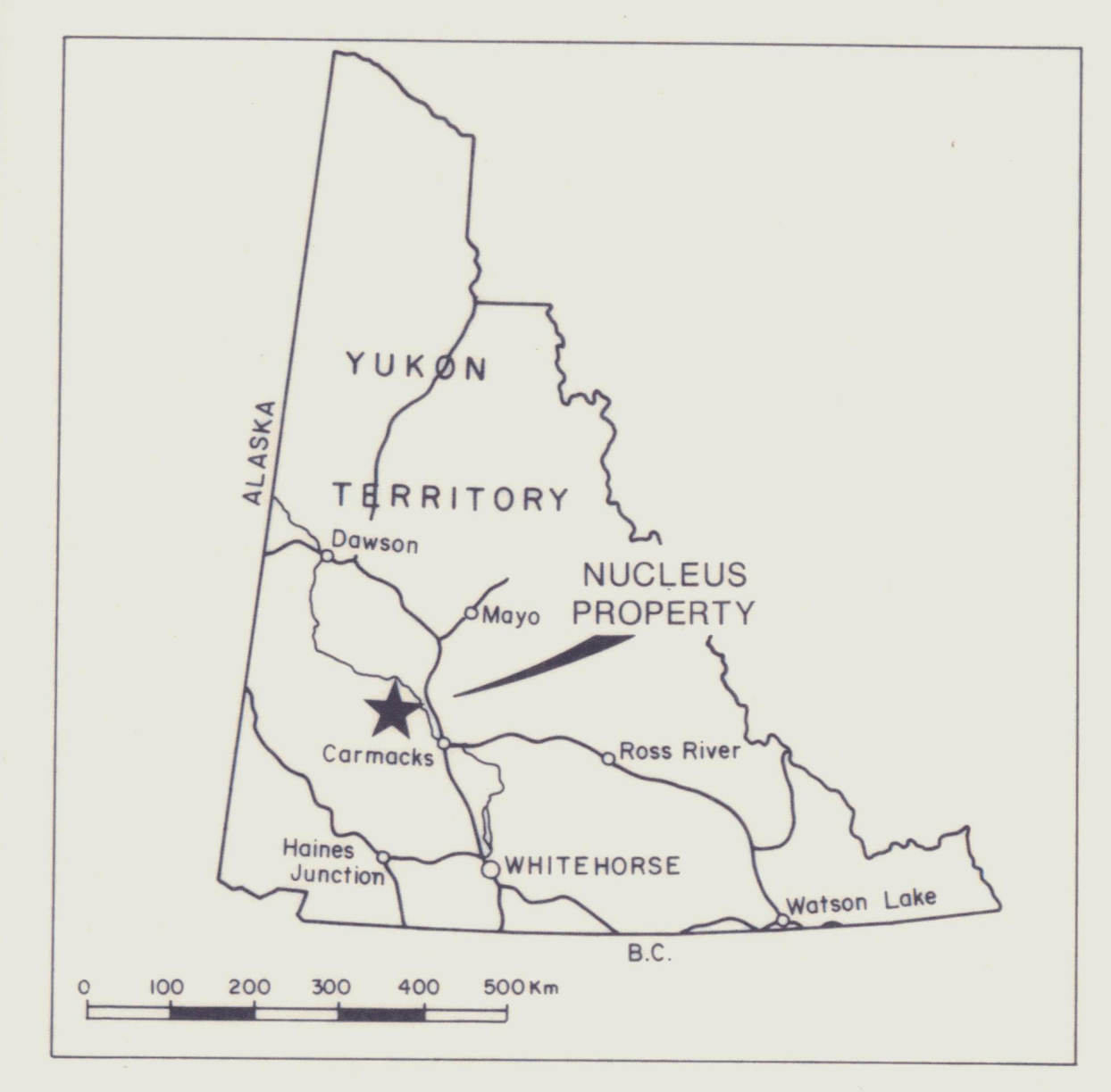
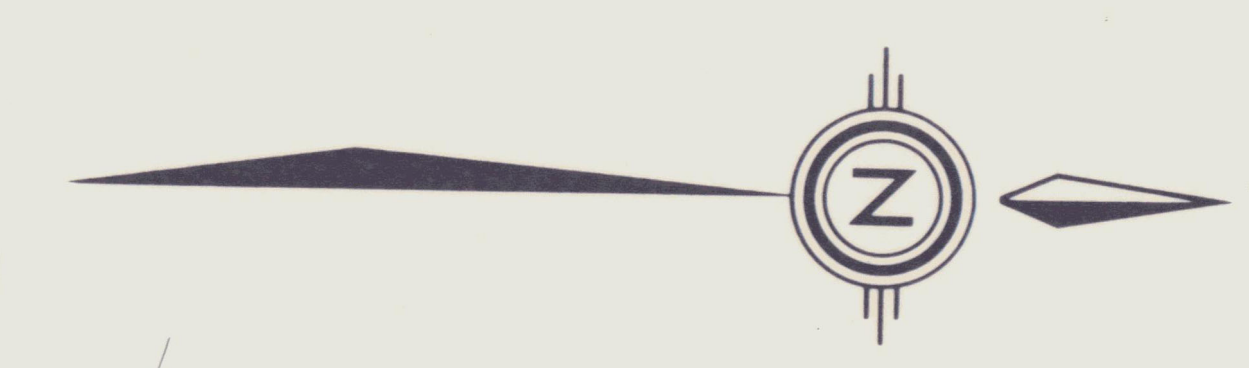
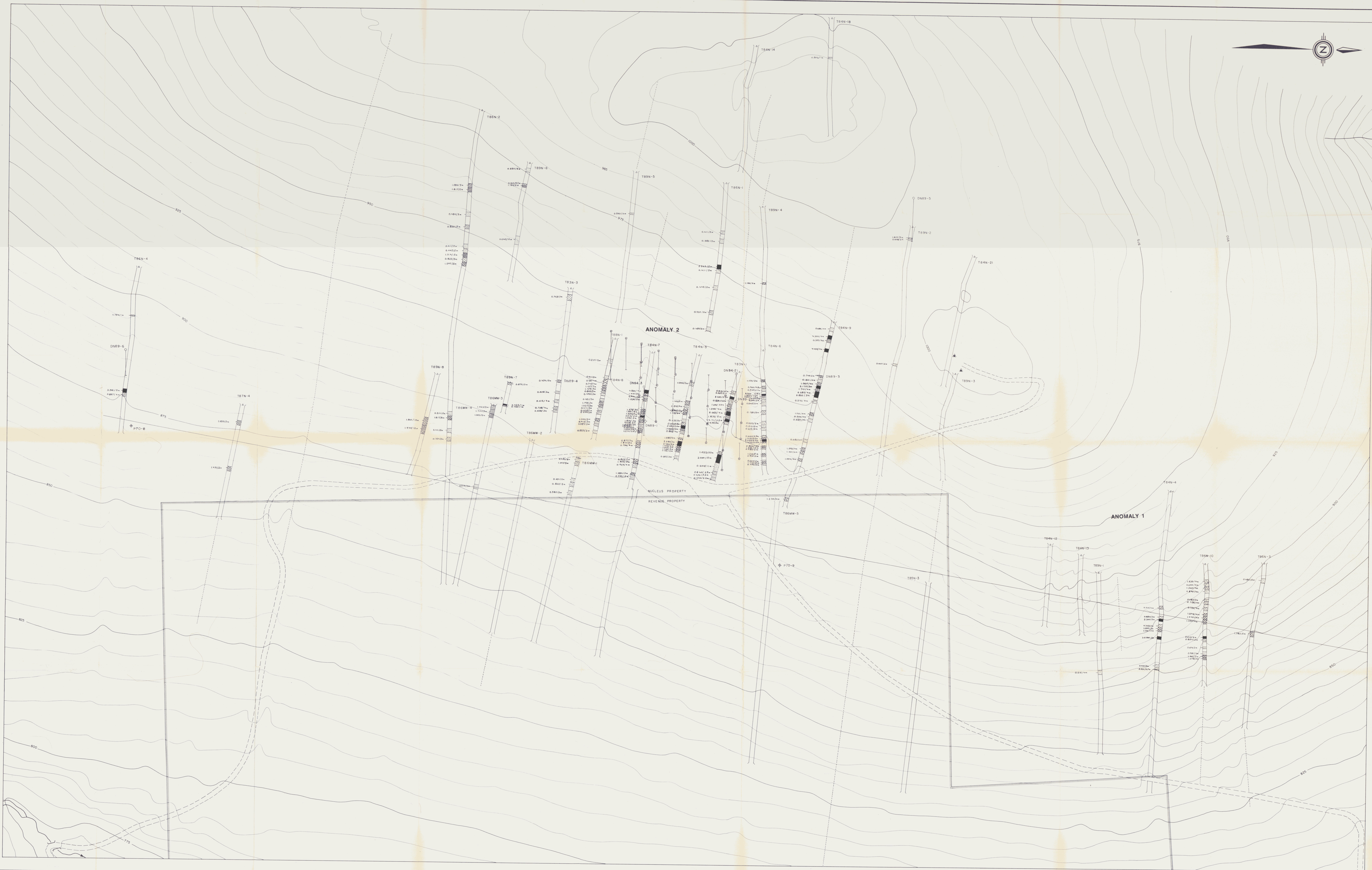
- RECENT
 - Overburden
- CRETACEOUS
 - Quartz Felsopar Porphyry
 - Micaschist
 - Micaschist
- PALEOZOIC OR OLDER
 - Basement Metamorphic Assemblage
 - Gneiss, Schist, Quartzite
 - Amphibolite
- Basalt
 - Cratic Basalt
 - Fluvial Gravel
 - Fluvial Sand (Known and Inferred)
 - Geological Contact With Dip (Known and Inferred)
 - Building Trace
 - Silicification - % Quartz Veinlets
 - Fluorapatite (5-15%)
 - Molybdenum (7-10%)
- Property Boundary
 - Induced Diamond Drill Hole
 - Vertical Diamond Drill Hole
 - Induced Percussion Drill Hole
 - Vertical Percussion Drill Hole
 - Road

092831

FIGURE 4
 ARCHER CATHOD & ASSOCIATES (1981) LIMITED
DETAILED GEOLOGY
 ANOMALY 1 AND 2 ZONES
 NUCLEUS PROPERTY
 BIG CREEK RESOURCES LTD. / CHEVRON MINERALS LTD.



Dr. O'Bye
W. J. B. B.



- 20.4g/t < 0.7g Au
- 20.7g/t < 1.0g Au
- 21.0g/t < 2.0g Au
- 22.0g/t Au
- Bullseye Trench
- 5000gpm Grams per Tonne Gold/Metres
- Property Boundary
- Inclined Diamond Drill Hole
- Vertical Diamond Drill Hole
- Inclined Percussion Drill Hole
- Vertical Percussion Drill Hole
- Road

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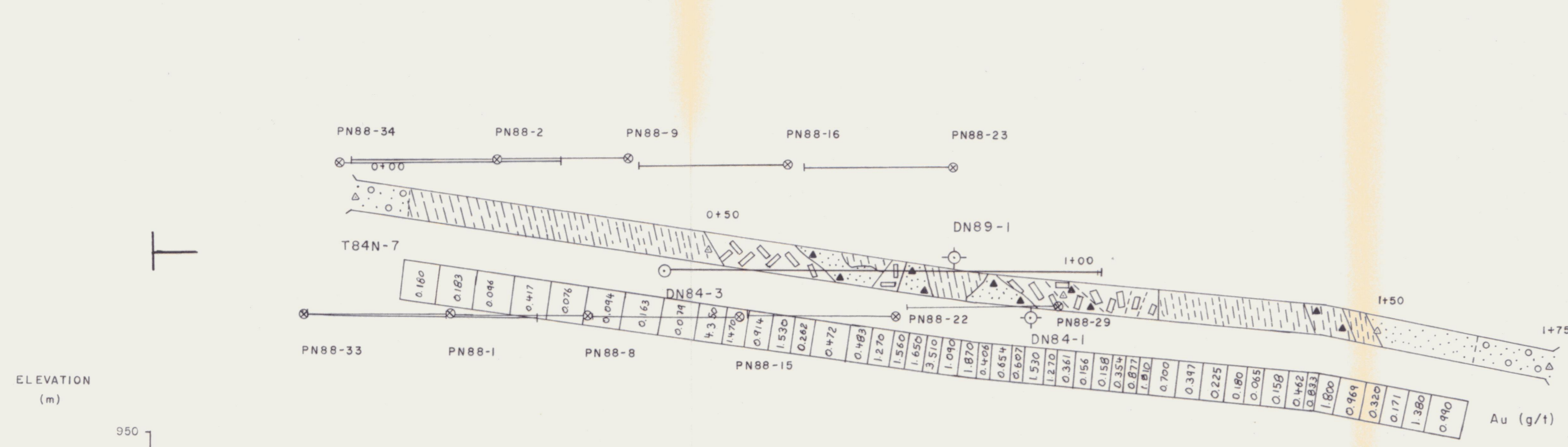
379
115

FIGURE 5
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TRENCH ASSAY
ANOMALY 1 AND 2 ZONES
NUCLEUS PROPERTY
BIG CREEK RESOURCES LTD. / CHEVRON MINERALS LTD.

SCALE 1:1000
0 10 20 30 40 50 100 Metres
0 30 60 90 120 150 Feet

Dr. S. G. ...
J. ...



ELEVATION (m)

950
940
930
920
910
900
890
880
870
860
850
840
830
820
810
800
790
780

DN84-3

FROM (m)	TO (m)	INTERVAL (m)	AU (g/t)
4.0	7.0	3.0	0.055
7.0	10.1	3.1	0.310
10.1	13.1	3.0	0.350
13.1	15.2	2.1	0.250
15.2	16.8	1.6	0.240
16.8	18.3	1.5	0.290
18.3	19.8	1.5	0.980
19.8	21.3	1.5	0.550
21.3	22.9	1.6	1.000
22.9	24.4	1.5	1.480
24.4	25.9	1.5	0.325
25.9	27.4	1.5	1.020
27.4	29.0	1.6	0.755
29.0	30.5	1.5	2.020
30.5	32.1	1.6	0.310
32.1	33.5	1.4	0.195
33.5	35.0	1.5	0.635
35.0	36.6	1.6	0.235
36.6	38.1	1.5	0.265
38.1	39.6	1.5	0.440
39.6	41.1	1.5	0.830
41.1	42.7	1.6	0.164
42.7	43.9	1.2	0.174
43.9	45.7	1.8	0.799
45.7	47.5	1.8	0.147
47.5	49.2	1.7	0.094
49.2	50.7	1.5	0.076
50.7	52.3	1.6	3.296
52.3	53.8	1.5	0.466
53.8	55.8	2.0	2.946
55.8	57.1	1.3	0.041
57.1	58.6	1.5	0.078
58.6	60.1	1.5	0.797
60.1	61.9	1.8	3.044
61.9	63.4	1.5	0.907
63.4	64.9	1.5	0.282
64.9	66.4	1.5	1.017
66.4	68.0	1.6	1.489
68.0	69.5	1.5	0.508
69.5	71.0	1.5	0.681
71.0	72.8	1.8	1.689
72.8	74.7	1.9	2.715
74.7	76.2	1.5	3.820
76.2	77.7	1.5	1.310
77.7	79.2	1.5	1.487
79.2	80.9	1.7	1.543
80.9	82.6	1.7	0.075
82.6	84.1	1.5	0.243
84.1	85.6	1.5	0.362
85.6	86.9	1.3	0.507
86.9	88.4	1.5	1.141
88.4	89.9	1.5	0.328
89.9	91.4	1.5	0.946

Base Of Oxidation

FROM (m)	TO (m)	INTERVAL (m)	AU (g/t)	CU (%)
0.330	0.0332			
0.340	0.0110			
0.600	0.0204			
0.275	0.0202			
0.310	0.0256			
0.770	0.0430			
0.340	0.0542			
2.000	0.0477			
1.020	0.0408			
2.050	0.0342			
0.350	0.0184			
0.195	0.0254			
0.475	0.0463			
0.205	0.0106			
0.660	0.0378			
1.140	0.0144			
1.510	0.0166			
0.850	0.0177			
2.346	0.0187			
3.410	0.0164			
1.760	0.0230			
2.950	0.0765			
3.410	0.0784			
1.406	0.0535			
0.315	0.0184			
0.675	0.0060			
0.465	0.0155			
1.660	0.4080			
2.000	0.5420			
2.466	0.7880			
1.646	0.6140			
0.410	0.2220			
0.680	0.5160			
0.550	0.5020			
0.370	0.6776			
1.220	0.6520			
0.340	0.5660			
0.360	0.3540			
0.175	0.4210			
0.160	0.7230			
0.140	0.3210			
0.155	0.4446			
1.760	0.6140			
3.296	0.3360			
0.600	0.3360			
0.041	0.3360			
0.170	0.3550			
3.044	0.2060			
0.375	0.2060			
0.120	0.2886			
0.050	0.2210			
0.450	0.2290			
0.705	0.1405			
0.110	0.1435			
0.505	0.3460			
0.030	0.1250			
0.100	0.0920			
0.090	0.0334			
0.080	0.0302			

FROM (m)	TO (m)	INTERVAL (m)	AU (g/t)	CU (%)
3.7	4.6	0.9	0.305	0.0088
4.6	6.1	1.5	0.974	0.0088
6.1	7.6	1.5	0.045	0.0110
7.6	9.1	1.5	0.129	0.0085
9.1	10.7	1.6	0.348	0.0093
10.7	11.7	1.0	0.072	0.0060
11.7	14.2	2.5	0.233	0.0084
14.2	15.7	1.5	0.104	0.0076
15.7	17.7	2.0	0.179	0.0147
17.7	19.8	2.1	0.833	0.0378
19.8	21.6	1.8	0.131	0.0670
21.6	23.5	1.9	0.191	0.0238
23.5	25.6	2.1	0.043	0.0183
25.6	27.4	1.8	0.592	0.0132
27.4	29.0	1.6	0.586	0.0502
29.0	31.1	2.1	0.353	0.0295
31.1	32.5	1.4	0.444	0.0313
32.5	33.7	1.2	0.232	0.0128
33.7	36.0	2.3	0.255	0.0332
36.0	38.4	2.4	0.457	0.0780
38.4	40.2	1.8	0.246	0.0610
40.2	41.4	1.2	0.075	0.0125
41.4	43.1	1.7	0.214	0.0183
43.1	44.8	1.7	0.167	0.0158
44.8	46.2	1.4	0.241	0.0450
46.2	47.4	1.2	1.230	0.0488
47.4	48.8	1.4	1.680	0.0770
48.8	50.0	1.2	0.248	0.0528
50.0	52.1	2.1	0.146	0.0255
52.1	54.6	2.5	0.523	0.0250
54.6	57.0	2.4	0.502	0.0340
57.0	59.0	2.0	0.160	0.0540
59.0	61.3	2.3	0.152	0.0780
61.3	62.5	1.2	0.072	0.1550
62.5	64.6	2.1	0.048	0.1230
64.6	66.7	2.1	0.111	0.0940
66.7	69.0	2.3	0.582	0.0535
69.0	71.5	2.5	0.321	0.1930
71.5	73.8	2.3	0.129	0.0348
73.8	75.1	1.3	0.328	0.0650
75.1	76.6	1.5	0.072	0.1750
76.6	77.7	1.1	0.374	0.0990
77.7	79.2	1.5	0.212	0.2380
79.2	80.8	1.6	1.040	0.2430
80.8	82.3	1.5	0.276	0.4780
82.3	83.8	1.5	0.613	0.3150

NUCLEUS PROPERTY
REVENUE PROPERTY

- Overburden
- Feldspar Porphyry
- Microgranite
- Monzonite
- Yukon Metamorphic Complex
- Breccia
- Crackle Breccia
- Fault Gouge
- Quartz Vein
- Fault With Dip 60
- Geological Contact With Dip (Known and Inferred) 50
- Survey Station
- Bulldozer Trench
- Inclined Diamond Drill Hole
- Vertical Diamond Drill Hole
- Inclined Percussion Drill Hole
- Vertical Percussion Drill Hole

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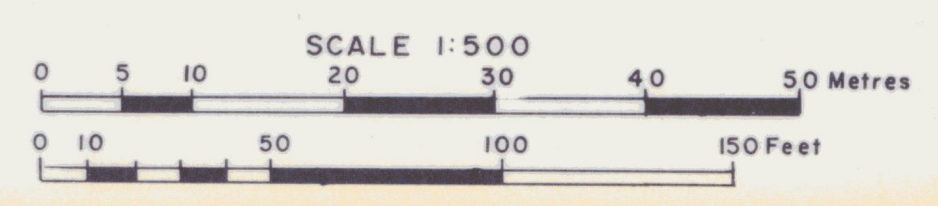
FIGURE 6

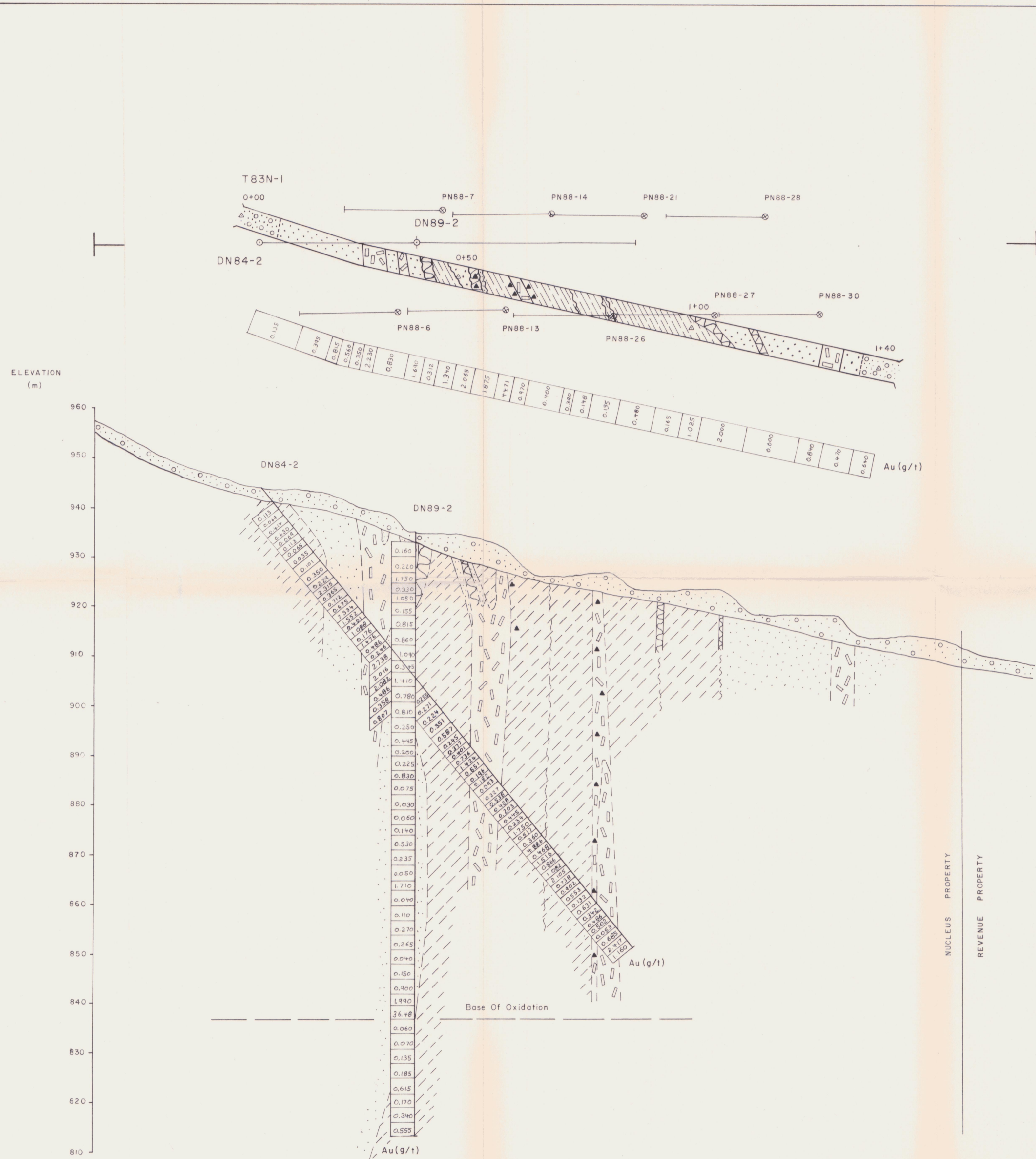
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION DN89-1

NUCLEUS PROPERTY
BIG CREEK RESOURCES LTD.
CHEVRON MINERALS LTD.

330
115 16





- Overburden
- Feldspar Porphyry
- Microgranite
- Monzonite
- Yukon Metamorphic Complex
- Breccia
- Crackle Breccia
- Fault Gouge
- Quartz Vein
- Fault With Dip
- Geological Contact With Dip (Known and Inferred)
- Survey Station
- Bulldozer Trench
- Inclined Diamond Drill Hole
- Vertical Diamond Drill Hole
- Inclined Percussion Drill Hole
- Vertical Percussion Drill Hole

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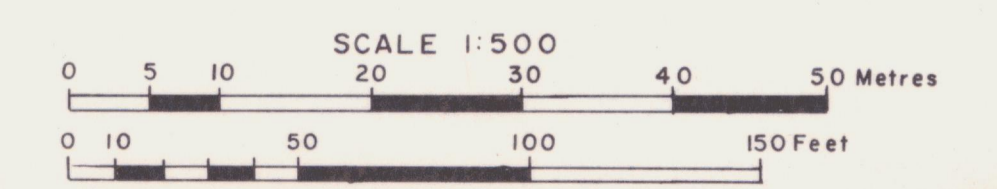
FIGURE 7
ARCHER, CATHOR & ASSOCIATES (1981) LIMITED

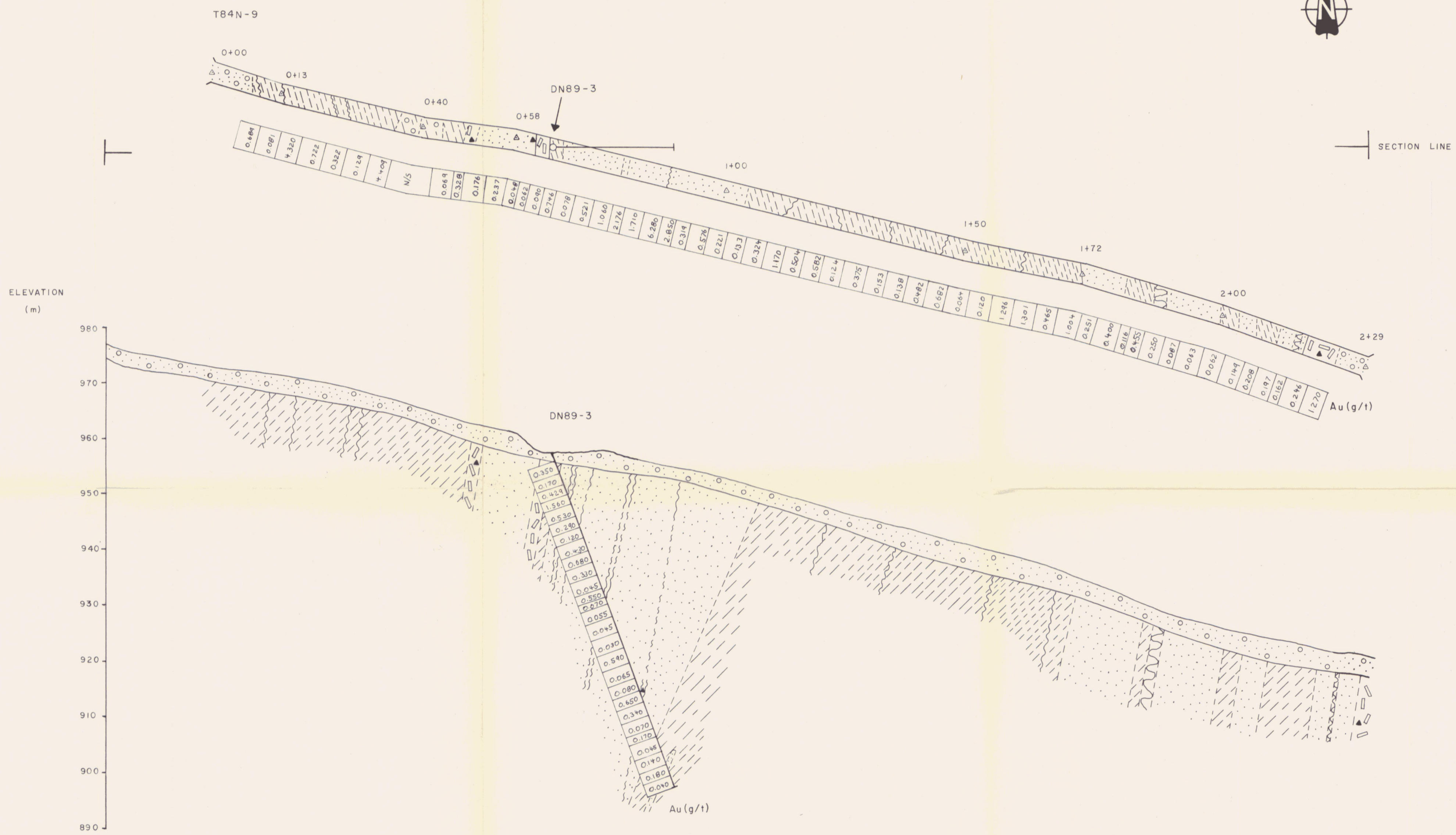
Dec 13/89
T. R. Becker

SECTION DN89-2

NUCLEUS PROPERTY
BIG CREEK RESOURCES LTD.
CHEVRON MINERALS LTD.

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11516



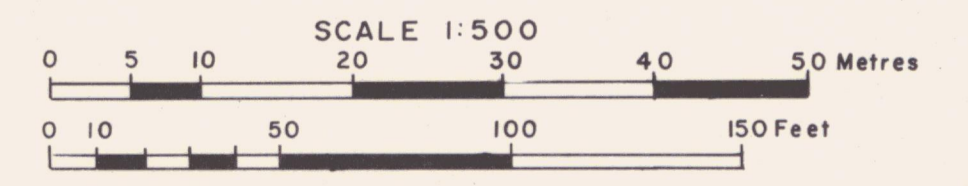


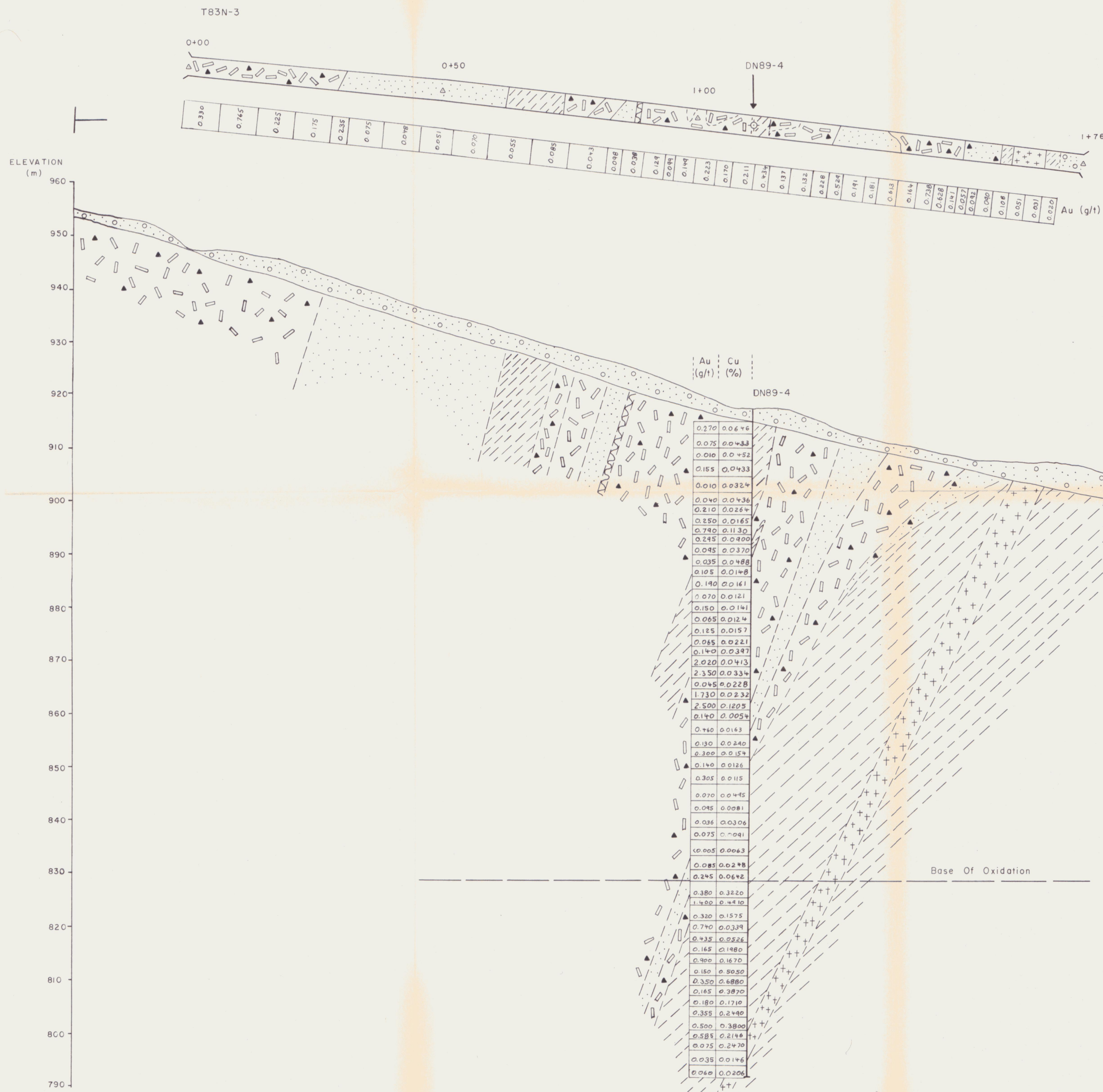
- Overburden
- Feldspar Porphyry
- Microgranite
- Monzonite
- Yukon Metamorphic Complex
- Breccia
- Crackle Breccia
- Fault Gouge
- Quartz Vein
- Fault With Dip
- Geological Contact With Dip (Known and Inferred)
- Survey Station
- Bulldozer Trench
- Inclined Diamond Drill Hole
- Vertical Diamond Drill Hole
- Inclined Percussion Drill Hole
- Vertical Percussion Drill Hole

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FIGURE 8
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
SECTION DN89-3
 NUCLEUS PROPERTY
 BIG CREEK RESOURCES LTD.
 CHEVRON MINERALS LTD.

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 11516





- Overburden
- Feldspar Porphyry
- Microgranite
- Monzonite
- Yukon Metamorphic Complex
- Breccia
- Crackle Breccia
- Fault Gouge
- Quartz Vein
- Fault With Dip
- Geological Contact With Dip (Known and Inferred)
- Survey Station
- Bulldozer Trench
- Inclined Diamond Drill Hole
- Vertical Diamond Drill Hole
- Inclined Percussion Drill Hole
- Vertical Percussion Drill Hole

Au (g/t)		Cu (%)	
0.270	0.0644		
0.075	0.0433		
0.010	0.0452		
0.155	0.0433		
0.010	0.0324		
0.040	0.0436		
0.210	0.0264		
0.250	0.0165		
0.740	0.1130		
0.245	0.0400		
0.045	0.0370		
0.035	0.0488		
0.105	0.0148		
0.190	0.0161		
0.070	0.0121		
0.150	0.0141		
0.065	0.0124		
0.125	0.0157		
0.065	0.0221		
0.140	0.0347		
2.020	0.0413		
2.350	0.0334		
0.045	0.0228		
1.730	0.0232		
2.500	0.1205		
0.140	0.0054		
0.160	0.0163		
0.130	0.0240		
0.300	0.0154		
0.140	0.0126		
0.305	0.0115		
0.070	0.0445		
0.045	0.0081		
0.035	0.0306		
0.075	0.0041		
0.005	0.0063		
0.085	0.0278		
0.245	0.0642		
0.380	0.3220		
1.500	0.4410		
0.320	0.1575		
0.740	0.0339		
0.435	0.0226		
0.165	0.1980		
0.900	0.1670		
0.150	0.0050		
0.350	0.6880		
0.165	0.3870		
0.180	0.1710		
0.355	0.2440		
0.500	0.3800		
0.585	0.2148		
0.075	0.2470		
0.035	0.0146		
0.040	0.0205		

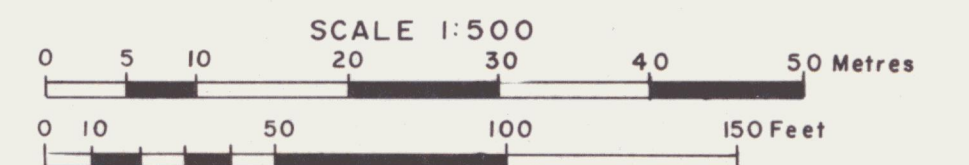
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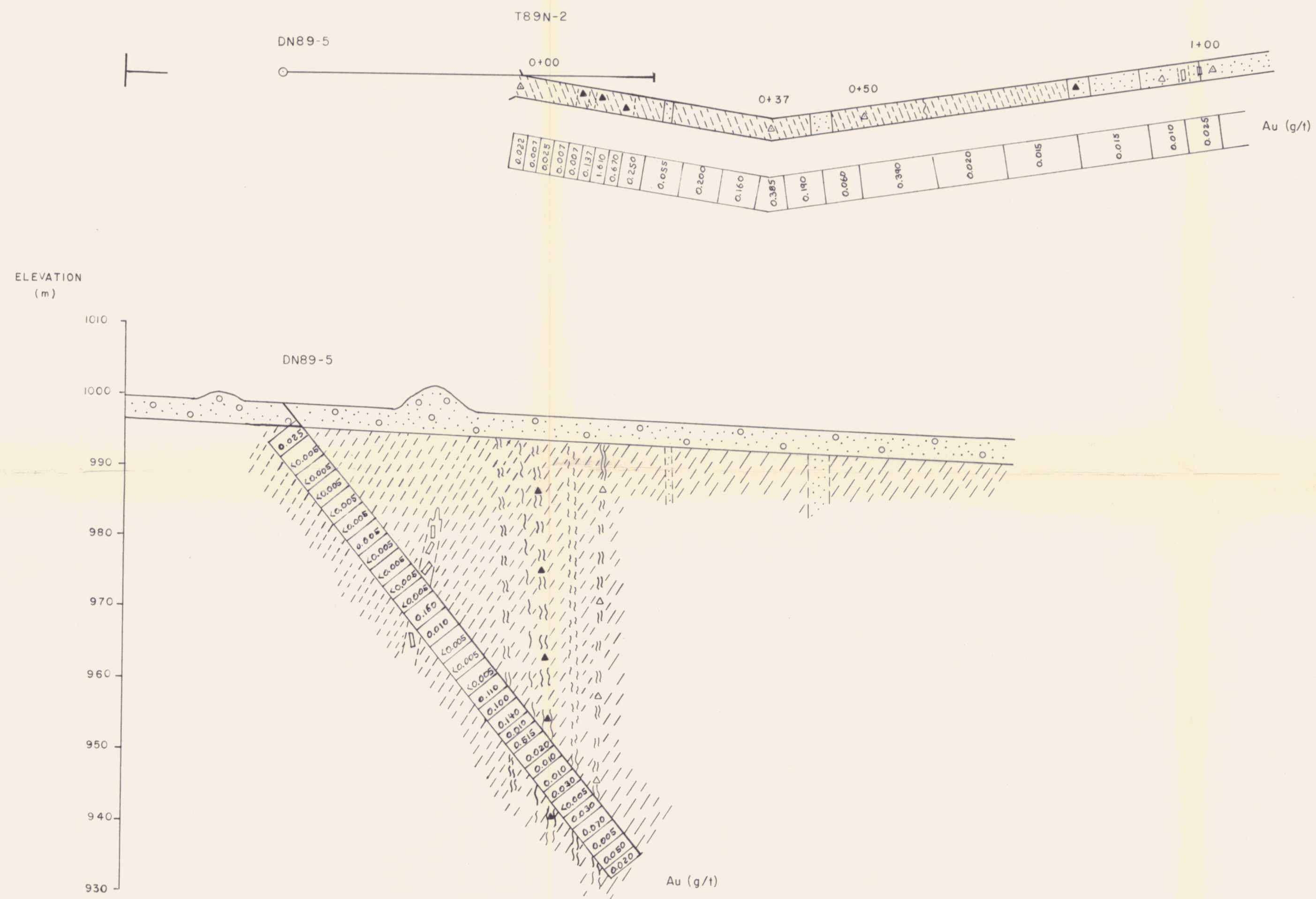
FIGURE 9
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION DN89-4

NUCLEUS PROPERTY
BIG CREEK RESOURCES LTD.
CHEVRON MINERALS LTD.

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- Overburden
- Feldspar Porphyry
- Microgranite
- Monzonite
- Yukon Metamorphic Complex
- Breccia
- Crackle Breccia
- Fault Gouge
- Quartz Vein
- Fault With Dip
- Geological Contact With Dip (Known and Inferred)
- Survey Station
- Bulldozer Trench
- Inclined Diamond Drill Hole
- Vertical Diamond Drill Hole
- Inclined Percussion Drill Hole
- Vertical Percussion Drill Hole

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FIGURE 10

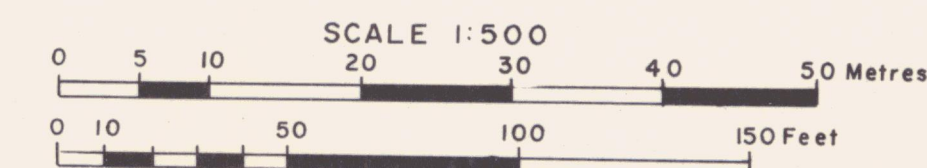
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

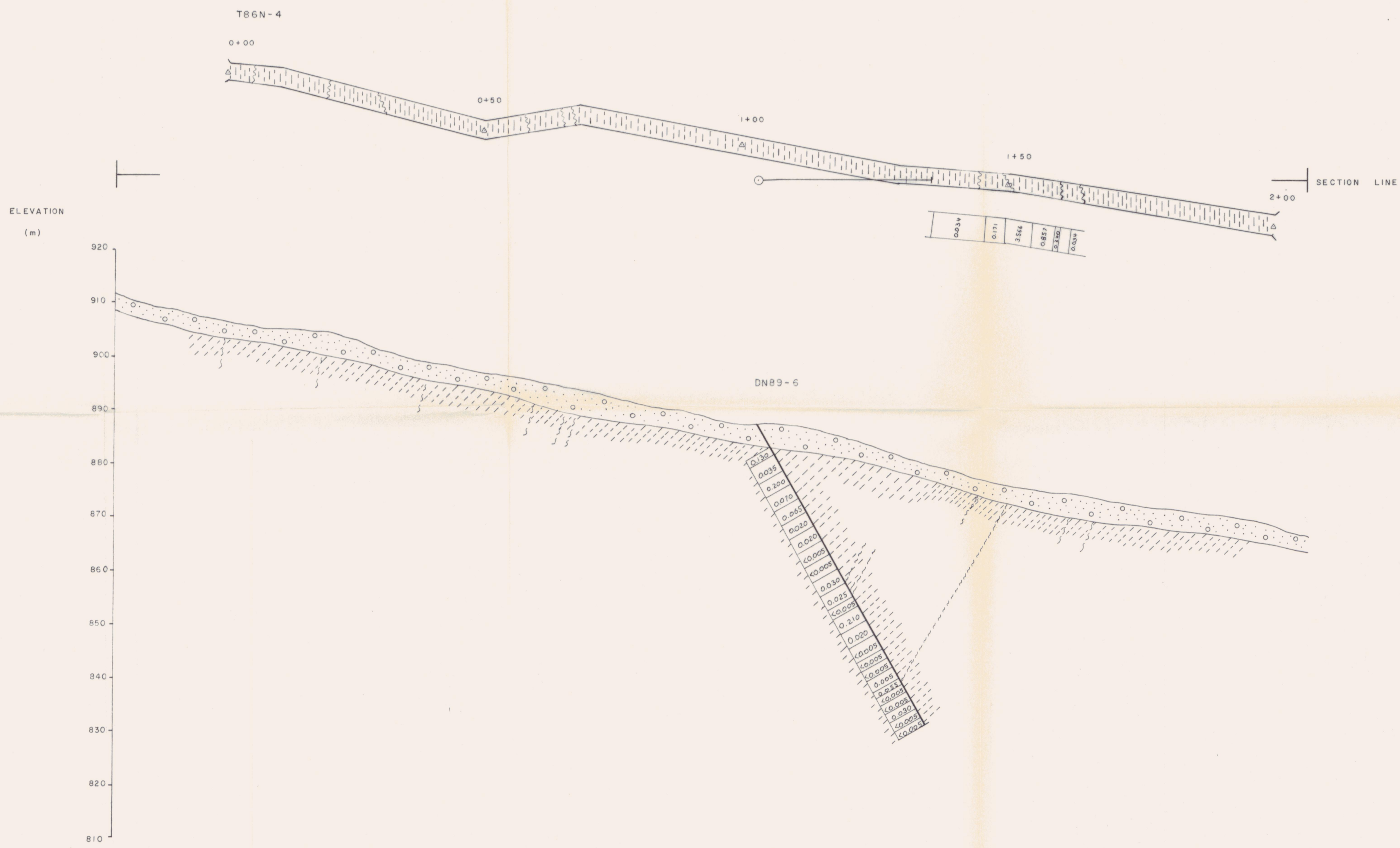
384
 15 16

SECTION DN89-5

NUCLEUS PROPERTY

BIG CREEK RESOURCES LTD.
 CHEVRON MINERALS LTD.





- Overburden
- Feldspar Porphyry
- Microgranite
- Monzonite
- Yukon Metamorphic Complex
- Breccia
- Crackie Breccia
- Fault Gouge
- Quartz Vein
- Fault With Dip
- Geological Contact With Dip (Known and Inferred)
- Survey Station
- Bulldozer Trench
- Inclined Diamond Drill Hole
- Vertical Diamond Drill Hole
- Inclined Percussion Drill Hole
- Vertical Percussion Drill Hole

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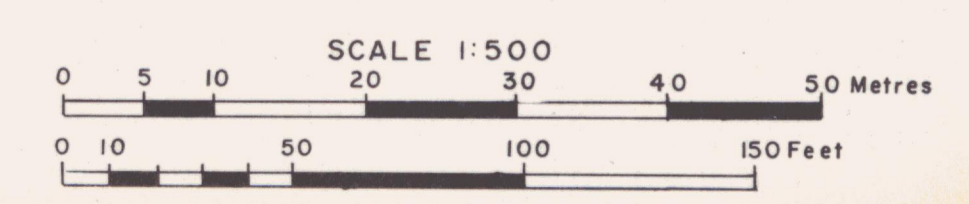
385
11516

DC-13/69

 FIGURE 11
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION DN89-6

NUCLEUS PROPERTY
 BIG CREEK RESOURCES LTD.
 CHEVRON MINERALS LTD.



APPENDIX A
AUTHORS' STATEMENTS OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Thomas C. Becker, geologist, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in Vancouver, British Columbia, do hereby certify that:

1. I graduated from the University of Alberta in 1989 with a B.Sc. in geology.
2. From 1984 to present, I have been actively engaged in mineral exploration in the Yukon Territory and am presently employed with Archer, Cathro & Associates (1981) Limited.
3. I have personally participated in and supervised the field work reported herein.


T.C. Becker

T.C. Becker, B.Sc.

STATEMENT OF QUALIFICATIONS

I, W. Douglas Eaton, geologist, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in Burnaby, British Columbia, do hereby declare:

1. I graduated from the University of British Columbia in 1980 with a B.Sc. majoring in Geological Sciences.
2. From 1971 to present, I have been actively engaged in mineral exploration in Yukon Territory and on June 1, 1981, I became a partner in Archer, Cathro & Associates (1981) Limited.
3. I have personally participated in or supervised the field work reported herein and have interpreted all data resulting from this work.



W. Douglas Eaton, B.A., B.Sc.

APPENDIX B
LIST OF PERSONNEL

Name

Position

W.D. Eaton

Project Supervisor

T. Becker

Geologist

M. Phillips

Geologist

D. Lister

Geologist

F. Gish

Field Assistant

R. Tough

Cook

APPENDIX C
CERTIFICATES OF ANALYSIS



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.

1016 - 510 W. HASTINGS ST.
VANCOUVER, BC
V6B 1L8

Project: NUCLEUS
Comments:

Page : 1-A
Tot. : 3
Date : 1-OCT-89
Invoice #: I-8926079
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8926079

SAMPLE DESCRIPTION	PREP CODE		Au ppb	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
			FA-AA	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm
T28001	205	238	530	1.70	2.0	75	90	< 0.5	32	0.08	< 0.5	< 1	65	332	4.58	10	3	0.67	20	0.58	40
T28002	205	238	390	0.61	1.2	60	70	< 0.5	12	0.02	< 0.5	< 1	57	110	1.28	< 10	< 1	0.32	20	0.05	10
T28003	205	238	600	0.95	1.6	210	70	< 0.5	8	0.02	< 0.5	< 1	97	204	3.03	10	< 1	0.49	20	0.24	25
T28004	205	238	275	0.92	2.4	70	60	< 0.5	10	0.01	< 0.5	< 1	71	202	2.95	< 10	1	0.56	20	0.27	25
T28005	205	238	310	0.71	1.6	195	80	< 0.5	6	0.01	< 0.5	< 1	58	256	3.89	< 10	< 1	0.33	40	0.11	20
T28006	205	238	770	1.06	3.2	590	350	< 0.5	28	0.02	< 0.5	< 1	36	430	6.35	10	< 1	0.63	30	0.26	30
T28007	205	238	340	2.42	1.4	150	170	< 0.5	< 2	0.02	< 0.5	< 1	34	542	8.32	20	< 1	1.39	20	1.07	65
T28008	205	238	2000	1.11	1.4	280	60	< 0.5	4	0.02	< 0.5	< 1	66	477	6.29	10	< 1	0.39	20	0.15	45
T28009	205	238	1020	0.69	1.2	180	180	< 0.5	16	0.01	< 0.5	< 1	56	408	6.76	< 10	< 1	0.47	10	0.06	30
T28010	205	238	2050	0.75	2.6	4800	100	< 0.5	30	0.02	< 0.5	< 1	66	342	5.92	< 10	< 1	0.50	20	0.04	90
T28011	205	238	350	0.73	1.0	120	60	< 0.5	10	0.01	< 0.5	< 1	73	184	2.76	< 10	< 1	0.32	20	0.15	25
T28012	205	238	195	0.79	1.8	45	130	< 0.5	< 2	0.03	< 0.5	< 1	59	254	3.99	< 10	< 1	0.42	40	0.13	20
T28013	205	238	475	2.11	1.2	325	40	< 0.5	12	0.03	< 0.5	< 1	74	463	5.09	10	< 1	1.00	10	0.85	45
T28014	205	238	205	0.57	0.6	140	70	< 0.5	2	0.01	< 0.5	< 1	64	106	1.15	< 10	< 1	0.14	30	0.03	5
T28015	205	238	660	1.45	2.4	370	50	< 0.5	30	0.01	< 0.5	< 1	36	378	4.76	10	2	0.65	10	0.51	40
T28016	205	238	1140	0.50	2.0	150	90	< 0.5	44	0.01	< 0.5	< 1	64	199	1.92	< 10	< 1	0.33	20	0.02	10
T28017	205	238	1510	0.42	2.2	65	80	< 0.5	80	0.01	< 0.5	< 1	57	166	1.46	< 10	2	0.28	20	0.02	5
T28018	205	238	850	0.57	2.8	70	60	< 0.5	50	0.01	< 0.5	< 1	67	177	1.31	< 10	< 1	0.24	20	0.02	5
T28019	205	238	2390	0.50	3.0	125	70	< 0.5	78	0.01	< 0.5	< 1	49	187	1.60	< 10	< 1	0.28	20	0.01	5
T28020	205	238	3410	0.40	3.2	210	70	< 0.5	92	0.01	< 0.5	< 1	58	164	1.36	< 10	< 1	0.27	10	0.01	5
T28021	205	238	1760	0.46	3.0	840	60	< 0.5	92	0.01	< 0.5	< 1	52	230	1.78	< 10	3	0.29	10	0.01	10
T28022	205	238	3950	2.46	9.0	360	50	0.5	264	0.02	< 0.5	< 1	150	765	5.49	10	< 1	0.95	20	0.76	65
T28023	205	238	3410	2.37	11.4	735	20	0.5	230	0.02	< 0.5	< 1	141	787	7.15	10	< 1	0.73	10	0.65	45
T28024	205	238	1400	2.58	6.6	295	90	< 0.5	306	0.06	< 0.5	< 1	162	535	7.63	10	< 1	1.54	20	1.25	75
T28025	205	238	315	0.45	1.4	90	110	< 0.5	64	0.01	< 0.5	< 1	63	189	4.46	< 10	< 1	0.25	10	0.02	10
T28100	205	---	200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
T28101	205	---	35	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
T28102	205	---	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
T28103	205	---	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
T28104	205	---	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
T28105	205	---	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
T28106	205	---	80	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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T28329	205	---	130	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
T28330	205	---	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
T28331	205	---	< 5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

DN89-

T89N-2

T89N-1

CERTIFICATION :

B. Coughlin



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V6B 1L8

Project : NUCLEUS
Comments :

Page : 1-B
Tot. : 3
Date : 1-OCT-89
Invoice # : 1-8926079
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8926079

SAMPLE DESCRIPTION	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
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T28001	205	238	< 1	0.05	2	660	2	< 5	14	20	0.03	< 10	< 10	108	< 10	26
T28002	205	238	1	0.01	2	460	12	5	2	14	< 0.01	< 10	< 10	14	< 10	8
T28003	205	238	1	0.02	1	340	8	5	5	7	0.01	< 10	< 10	33	< 10	18
T28004	205	238	1	0.01	1	330	4	10	6	9	0.02	< 10	< 10	31	< 10	14
T28005	205	238	1	0.01	1	530	10	5	7	10	< 0.01	< 10	< 10	26	< 10	20
T28006	205	238	< 1	0.03	< 1	1000	8	10	11	23	0.02	< 10	< 10	76	< 10	22
T28007	205	238	< 1	0.03	1	1480	4	10	25	28	0.11	< 10	< 10	215	< 10	42
T28008	205	238	2	0.02	2	1490	12	10	16	21	< 0.01	< 10	< 10	64	< 10	36
T28009	205	238	2	0.02	< 1	330	8	5	4	12	< 0.01	< 10	< 10	20	< 10	30
T28010	205	238	1	0.03	5	900	10	10	15	20	< 0.01	< 10	< 10	24	< 10	30
T28011	205	238	1	0.01	1	220	16	< 5	5	5	0.01	< 10	< 10	31	< 10	12
T28012	205	238	< 1	0.03	4	430	4	5	5	12	0.01	< 10	< 10	52	< 10	18
T28013	205	238	< 1	0.02	6	670	2	5	16	21	0.07	< 10	< 10	83	< 10	28
T28014	205	238	1	0.01	4	270	< 2	< 5	2	8	< 0.01	< 10	< 10	5	< 10	6
T28015	205	238	1	0.01	5	440	< 2	5	15	14	0.04	< 10	< 10	86	< 10	36
T28016	205	238	2	0.01	4	530	4	5	3	22	< 0.01	< 10	< 10	11	< 10	10
T28017	205	238	1	0.01	5	490	< 2	5	2	16	< 0.01	< 10	< 10	7	< 10	8
T28018	205	238	2	0.01	5	520	6	< 5	2	17	< 0.01	< 10	< 10	6	< 10	6
T28019	205	238	2	0.01	4	510	2	10	2	21	< 0.01	< 10	< 10	5	< 10	6
T28020	205	238	2	0.02	4	480	8	5	2	11	< 0.01	< 10	< 10	3	< 10	6
T28021	205	238	1	0.02	3	530	56	10	2	11	< 0.01	< 10	< 10	3	< 10	8
T28022	205	238	4	0.03	21	1450	20	10	18	41	0.06	< 10	< 10	100	< 10	44
T28023	205	238	1	0.05	29	1750	4	10	19	16	0.04	< 10	< 10	83	< 10	38
T28024	205	238	< 1	0.04	8	1290	2	< 5	21	28	0.10	< 10	< 10	150	< 10	52
T28025	205	238	4	0.03	2	350	8	< 5	1	7	< 0.01	< 10	< 10	4	< 10	10
T28100	205	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
T28101	205	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
T28102	205	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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T28329	205	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
T28330	205	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
T28331	205	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

DN89-1

T89H-2

T89N-1

CERTIFICATION :

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 PHONE (604) 984-0221

1 RESEARCHER CATHRO & ASSOC. (1981) LTD.

3125 3RD AVE., BOX 4127
 WHITEHORSE, YT
 Y1A 3S9

Project: NUCIFUS
 Comments:

Page No: 1-A
 Tot. Pages: 1
 Date: 21-SEP-89
 Invoice #: I-8926078
 P.O. #: NONE

CERTIFICATE OF ANALYSIS A8926078

SAMPLE DESCRIPTION	PREP CODE		Au ppb RUSH	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
	T28026	255	238	675	0.41	2.6	60	70	< 0.5	42	0.01	< 0.5	< 1	80	60	0.90	< 10	< 1	0.23	20	0.01
T28027	255	238	465	0.68	1.6	105	160	< 0.5	8	0.02	< 0.5	2	52	1155	3.21	< 10	< 1	0.32	50	0.06	15
T28028	255	238	1660	1.97	3.4	500	20	0.5	94	0.23	< 0.5	25	36	4080	5.54	10	< 1	0.59	20	0.86	70
T28029	255	238	2000	1.13	4.4	90	40	0.5	94	0.06	< 0.5	26	46	5420	3.52	10	< 1	0.28	50	0.20	25
T28030	255	238	2960	2.57	6.8	55	30	0.5	58	0.16	0.5	28	47	7880	5.99	20	< 1	1.28	10	1.26	80
T28031	255	238	1640	1.42	5.4	630	20	1.0	46	0.05	< 0.5	23	63	6190	3.59	< 10	< 1	0.29	20	0.26	30
T28032	255	238	410	0.79	1.4	250	10	0.5	20	0.09	2.5	18	73	2220	2.74	< 10	< 1	0.16	10	0.24	75
T28033	255	238	680	1.39	4.0	145	50	0.5	64	0.06	< 0.5	14	66	5160	2.26	10	< 1	0.31	50	0.35	35
T28034	255	238	550	1.70	3.0	355	40	0.5	26	0.06	< 0.5	18	79	5020	2.82	< 10	1	0.36	20	0.38	35
T28035	255	238	370	2.20	2.8	175	20	0.5	82	0.08	< 0.5	25	55	6770	3.87	10	< 1	0.64	10	0.82	70
T28036	255	238	1220	2.52	4.4	135	20	1.0	246	0.10	< 0.5	27	65	6520	5.06	10	< 1	0.68	10	1.09	85
T28037	255	238	340	2.69	3.0	255	10	1.5	36	0.10	< 0.5	40	66	5660	6.57	10	< 1	0.58	10	0.69	85
T28038	255	238	360	1.48	3.0	135	40	1.0	18	0.09	< 0.5	33	52	3590	3.77	10	1	0.21	50	0.10	25
T28039	255	238	175	2.30	2.6	115	40	1.0	22	0.11	< 0.5	41	82	4210	3.08	10	< 1	0.41	20	0.39	60
T28040	255	238	160	2.00	3.2	220	30	1.0	34	0.10	< 0.5	127	66	7230	2.86	10	< 1	0.25	70	0.11	20
T28041	255	238	190	1.43	2.4	45	20	1.0	22	0.10	< 0.5	31	53	3210	1.41	< 10	< 1	0.23	20	0.06	15
T28042	255	238	155	1.50	2.4	65	30	1.0	8	0.12	0.5	36	46	4490	1.80	< 10	< 1	0.20	20	0.11	25

DN87-1

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Y1A 3S9

Project: NUCLEUS

Comments:

Page: 1-B
Tot. Pages: 1
Date: 21-SEP-89
Invoice #: I-8926078
P.O. #: NONE

CERTIFICATE OF ANALYSIS A8926078

SAMPLE DESCRIPTION	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
T28026	255	238	4	0.01	< 1	80	14	< 5	< 1	6	< 0.01	< 10	< 10	1	< 10	4
T28027	255	238	1	0.04	2	310	12	5	2	12	< 0.01	< 10	< 10	7	< 10	16
T28028	255	238	2	0.02	11	1420	6	5	16	5	0.04	< 10	< 10	121	< 10	58
T28029	255	238	3	0.02	18	500	12	15	5	5	0.01	< 10	< 10	31	< 10	68
T28030	255	238	3	0.02	23	900	10	15	18	4	0.09	< 10	< 10	135	< 10	98
T28031	255	238	1	0.01	16	230	8	20	6	5	0.01	< 10	< 10	19	< 10	78
T28032	255	238	1	0.04	10	300	10	10	5	4	0.01	< 10	< 10	9	< 10	38
T28033	255	238	6	0.01	15	300	8	15	7	6	0.01	< 10	< 10	36	< 10	56
T28034	255	238	5	0.01	20	490	12	20	10	13	0.01	< 10	< 10	62	< 10	58
T28035	255	238	2	0.01	23	370	4	15	16	5	0.04	< 10	< 10	94	< 10	74
T28036	255	238	3	0.01	20	390	16	10	18	6	0.04	< 10	< 10	118	< 10	82
T28037	255	238	2	< 0.01	33	450	34	15	19	4	0.03	< 10	< 10	100	< 10	126
T28038	255	238	1	0.01	30	460	20	15	7	8	< 0.01	< 10	< 10	21	< 10	66
T28039	255	238	9	0.01	48	430	16	10	10	8	< 0.01	< 10	< 10	75	< 10	48
T28040	255	238	5	< 0.01	118	510	10	10	5	18	< 0.01	< 10	< 10	20	< 10	66
T28041	255	238	2	< 0.01	45	510	8	20	2	13	< 0.01	< 10	< 10	9	< 10	40
T28042	255	238	2	0.01	51	590	16	15	2	26	< 0.01	< 10	< 10	11	< 10	56

DN89-1

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To: ARCHER CAIRO & ASSOC. (1981) LTD.

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V6B 1L8

Project: NUCLEUS
Comments:

Page No. 1
Tot. Pages 1
Date -OCT-89
Invoice #: 1-8927044
P.O. #: NONE

CERTIFICATE OF ANALYSIS A8927044

SAMPLE DESCRIPTION	PREP CODE	Cu %										
T28028-042 COMP	299	--	0.43									

DN 89-1

CERTIFICATION : *W. Stenrossini*



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Project : NUCLEUS
Comments :

Page : 1
Tot. Pages : 1
Date : 1-OCT-89
Invoice # : I-8926576
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8926576

CN 89-1

SAMPLE DESCRIPTION	PREP CODE		Au oz/T							
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28030 RESPLITS	207	--	0.047							
28031 RESPLITS	207	--	0.057							
28032 RESPLITS	207	--	0.004							
28033 RESPLITS	207	--	0.022							
28034 RESPLITS	207	--	0.010							
28035 RESPLITS	207	--	0.028							
28036 RESPLITS	207	--	0.075							
28037 RESPLITS	207	--	0.014							

CERTIFICATION

[Handwritten signature]



Laboratoires Chemex Ltee.

Essayeurs * Geochimistes * Chimistes Analytique
175 Boul. Industriel C.P. 284, Rouyn,
Quebec, Canada J9X 5C3
PHONE: 819-797-1922

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Page .ber : 1
Total Pages : 1
Invoice Date: 27-SEP-89
Invoice No. : I-8926267
P.O. Number : NONE

Project : NUCLEUS
Comments :

CERTIFICATE OF ANALYSIS

A8926267

DNA-1

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA										
T28043	205 205	1760										
T28044	205 205	600										
T28045	205 205	170										
T28046	205 205	375										
T28047	205 205	120										
T28048	205 205	50										
T28049	205 205	460										
T28050	205 205	705										
T28051	205 205	110										
T28052	205 205	505										
T28053	205 205	30										
T28054	205 205	100										
T28055	205 205	40										
T28056	205 205	80										

CERTIFICATION : *Mark Vink*



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V6B 1L8

Project : NUCLEUS

Comments :

Page : 1-A
Total : 1
Date : 16-OCT-89
Invoice # : I-8927424
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8927424

C-189-1

SAMPLE DESCRIPTION	PREP CODE	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
T28043	214 238	1.15	5.0	125	10	0.5	56	0.10	< 0.5	52	16	6190	1.70	< 10	< 1	0.11	20	0.09	20	< 1
T28044	214 238	0.87	3.2	130	20	0.5	22	0.11	< 0.5	24	26	3360	1.06	< 10	< 1	0.10	20	0.07	20	< 1
T28045	214 238	1.50	3.0	100	30	0.5	14	0.11	< 0.5	14	56	3550	1.27	< 10	< 1	0.20	30	0.10	20	< 1
T28046	214 238	1.16	2.2	55	20	0.5	20	0.15	1.5	13	61	2060	1.83	< 10	< 1	0.18	20	0.06	125	< 1
T28047	214 238	0.88	2.4	115	10	0.5	20	0.10	< 0.5	14	21	2880	1.42	< 10	< 1	0.09	20	0.01	5	< 1
T28048	214 238	1.24	1.2	20	30	0.5	12	0.12	< 0.5	11	50	2210	1.39	< 10	1	0.15	20	0.02	40	< 1
T28049	214 238	0.33	3.2	85	10	< 0.5	80	0.15	3.0	17	22	2290	3.06	< 10	< 1	0.09	20	0.07	225	1
T28050	214 238	0.44	3.2	65	10	< 0.5	294	0.18	1.5	17	46	1405	3.41	< 10	< 1	0.14	20	0.14	285	1
T28051	214 238	0.63	1.6	40	10	< 0.5	100	0.15	1.0	11	15	1435	1.59	< 10	< 1	0.08	20	0.04	100	1
T28052	214 238	1.12	2.4	930	10	< 0.5	24	0.11	< 0.5	16	20	3460	2.22	< 10	< 1	0.09	20	0.01	45	1
T28053	214 238	0.54	1.2	125	< 10	< 0.5	8	0.17	2.0	12	19	1250	2.38	< 10	< 1	0.08	20	0.06	230	< 1
T28054	214 238	0.46	1.2	55	< 10	< 0.5	60	0.21	1.5	16	29	920	3.96	< 10	1	0.11	20	0.26	425	2
T28055	214 238	2.29	0.2	50	40	< 0.5	12	0.25	< 0.5	20	59	334	5.40	10	< 1	1.34	10	1.90	310	2
T28056	214 238	2.97	< 0.2	70	90	< 0.5	< 2	0.63	< 0.5	27	65	302	6.74	10	< 1	1.70	10	2.53	610	1

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Project : NUCLEUS
Comments :

Page : 1-B
Total : 1
Date : 16-OCT-89
Invoice # : I-8927424
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8927424

SAMPLE DESCRIPTION	PREP CODE		Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
T28043	214	238	< 0.01	66	590	8	15	2	27	< 0.01	< 10	< 10	8	< 10	54
T28044	214	238	< 0.01	32	610	6	20	1	21	< 0.01	< 10	< 10	7	< 10	42
T28045	214	238	< 0.01	23	600	10	15	2	35	< 0.01	< 10	< 10	9	< 10	36
T28046	214	238	< 0.01	17	630	8	10	1	21	< 0.01	< 10	< 10	7	< 10	30
T28047	214	238	< 0.01	22	600	32	< 5	1	22	< 0.01	< 10	< 10	4	< 10	46
T28048	214	238	< 0.01	28	650	12	< 5	1	30	< 0.01	< 10	< 10	5	< 10	26
T28049	214	238	< 0.01	12	600	20	5	1	5	< 0.01	< 10	< 10	3	< 10	48
T28050	214	238	< 0.01	13	610	76	5	2	6	< 0.01	< 10	< 10	6	< 10	44
T28051	214	238	< 0.01	13	640	74	< 5	2	11	< 0.01	< 10	< 10	3	< 10	26
T28052	214	238	< 0.01	42	640	26	20	2	24	< 0.01	< 10	< 10	6	< 10	54
T28053	214	238	< 0.01	13	600	42	< 5	1	7	< 0.01	< 10	< 10	4	< 10	66
T28054	214	238	< 0.01	16	590	16	< 5	4	4	< 0.01	< 10	< 10	18	< 10	54
T28055	214	238	0.01	24	470	< 2	< 5	18	4	0.09	< 10	< 10	124	< 10	52
T28056	214	238	0.10	28	440	< 2	< 5	20	27	0.12	< 10	< 10	165	< 10	50

DN 29-1

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Project : NUCLEUS
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Tot. Pages: 1
Date : 9-OCT-89
Invoice #: I-8926392
P.O. #: NONE

CERTIFICATE OF ANALYSIS A8926392

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
T 28057	205 238	160	1.24	0.4	360	140	< 0.5	12	0.09	< 0.5	1	70	155	2.96	< 10	< 1	0.47	20	0.34	45
T 28058	205 238	220	0.87	0.4	315	160	< 0.5	8	0.08	< 0.5	1	87	227	4.05	< 10	< 1	0.41	20	0.28	35
T 28059	205 238	1750	0.52	0.6	1575	280	< 0.5	12	0.04	< 0.5	< 1	61	140	3.96	< 10	< 1	0.52	30	0.03	15
T 28060	205 238	330	1.44	0.6	670	230	< 0.5	14	0.09	< 0.5	< 1	90	141	3.73	< 10	< 1	0.66	30	0.38	35
T 28061	205 238	1050	0.58	1.0	870	170	< 0.5	18	0.02	< 0.5	< 1	103	92	2.20	< 10	< 1	0.33	30	0.03	15
T 28062	205 238	155	0.55	0.4	785	110	< 0.5	10	0.01	< 0.5	1	98	53	1.40	< 10	< 1	0.29	20	0.01	40
T 28063	205 238	815	1.04	0.6	335	120	< 0.5	16	0.06	< 0.5	< 1	83	247	5.30	< 10	< 1	0.48	40	0.11	45
T 28064	205 238	860	2.99	0.4	855	180	< 0.5	10	0.12	< 0.5	6	152	645	4.24	10	< 1	0.98	30	1.12	115
T 28065	205 238	1090	1.97	0.4	700	260	< 0.5	62	0.13	< 0.5	23	150	321	4.73	10	< 1	0.65	30	1.55	230
T 28066	205 238	345	2.71	< 0.2	< 5	330	< 0.5	12	0.49	0.5	21	150	181	5.28	10	< 1	1.29	20	2.40	330
T 28067	205 238	1410	3.98	0.2	2750	200	4.0	70	0.15	< 0.5	46	240	956	10.35	10	< 1	1.84	10	3.67	285
T 28068	205 238	780	2.36	0.4	305	100	1.5	66	0.12	< 0.5	21	103	1380	4.83	< 10	< 1	0.77	20	1.33	125
T 28069	205 238	810	2.44	0.2	215	40	4.5	60	0.32	< 0.5	36	95	805	10.80	< 10	< 1	0.41	10	2.11	840
T 28070	205 238	250	2.44	< 0.2	45	80	3.5	8	0.28	< 0.5	32	111	421	9.93	< 10	< 1	0.71	10	2.41	515
T 28071	205 238	445	2.39	< 0.2	65	90	3.0	4	0.29	< 0.5	33	77	349	9.10	< 10	< 1	1.06	10	2.42	610
T 28072	205 238	200	0.57	< 0.2	200	40	< 0.5	8	0.03	< 0.5	4	123	203	1.21	< 10	< 1	0.15	20	0.07	35
T 28073	205 238	225	0.53	< 0.2	295	50	< 0.5	6	0.02	< 0.5	< 1	88	80	2.45	< 10	< 1	0.21	20	0.05	20
T 28074	205 238	830	0.63	< 0.2	100	30	< 0.5	10	0.01	< 0.5	1	39	514	0.85	< 10	< 1	0.27	20	0.04	15
T 28075	205 238	75	0.49	< 0.2	90	40	< 0.5	14	0.01	< 0.5	< 1	27	988	1.06	< 10	< 1	0.27	30	0.02	10
T 28076	205 238	30	0.59	< 0.2	95	110	< 0.5	10	0.01	< 0.5	< 1	41	54	1.94	< 10	< 1	0.43	30	0.01	10
T 28077	205 238	60	0.51	< 0.2	165	70	< 0.5	36	< 0.01	< 0.5	< 1	19	66	1.63	< 10	< 1	0.33	20	0.01	5
T 28078	205 238	140	0.50	0.2	15	20	< 0.5	6	< 0.01	< 0.5	< 1	28	44	0.58	< 10	< 1	0.14	30	0.01	5
T 28079	205 238	530	0.57	0.2	20	20	< 0.5	12	0.01	< 0.5	4	23	669	0.71	< 10	< 1	0.18	30	0.01	5
T 28080	205 238	235	0.59	< 0.2	10	100	< 0.5	6	0.01	< 0.5	1	54	26	0.56	< 10	< 1	0.26	40	0.02	10
T 28081	205 238	50	0.46	< 0.2	65	90	< 0.5	4	0.01	< 0.5	1	83	50	1.88	< 10	< 1	0.27	20	0.01	10
T 28082	205 238	1710	0.90	0.6	90	90	< 0.5	44	0.01	< 0.5	1	90	70	2.26	< 10	< 1	0.37	20	0.14	20
T 28083	205 238	40	0.55	< 0.2	65	60	< 0.5	4	< 0.01	< 0.5	1	108	23	0.68	< 10	< 1	0.20	20	0.01	5
T 28084	205 238	110	0.40	< 0.2	115	70	< 0.5	4	< 0.01	< 0.5	< 1	86	39	1.02	< 10	< 1	0.19	20	< 0.01	10
T 28085	205 238	270	0.45	0.2	75	20	< 0.5	6	0.01	< 0.5	4	44	449	0.94	< 10	< 1	0.16	20	0.01	5
T 28086	205 238	265	0.43	< 0.2	195	80	< 0.5	6	0.01	< 0.5	1	79	45	1.54	< 10	< 1	0.25	20	0.01	10
T 28087	205 238	40	0.33	< 0.2	90	30	< 0.5	6	0.01	< 0.5	2	58	130	0.63	< 10	< 1	0.11	20	0.01	10
T 28088	205 238	150	0.43	< 0.2	130	70	< 0.5	46	0.01	< 0.5	1	79	38	1.17	< 10	< 1	0.21	20	0.01	15
T 28089	205 238	900	1.29	0.4	105	140	< 0.5	32	< 0.01	< 0.5	1	184	32	1.61	< 10	< 1	0.44	20	0.01	15

DN84-2

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Project : NUCLEUS
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Invoice # : I-8926392
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8926392

SAMPLE DESCRIPTION	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
T 28057	205	238	2	0.07	6	360	< 2	< 5	6	26	0.01	< 10	< 10	44	< 10	14
T 28058	205	238	1	0.11	6	350	< 2	< 5	4	30	< 0.01	< 10	< 10	39	< 10	14
T 28059	205	238	16	0.12	1	500	< 2	< 5	3	37	< 0.01	< 10	< 10	13	< 10	6
T 28060	205	238	3	0.14	4	500	< 2	5	15	43	0.01	< 10	< 10	45	< 10	10
T 28061	205	238	5	0.09	2	310	< 2	< 5	5	27	< 0.01	< 10	< 10	9	< 10	2
T 28062	205	238	7	0.02	4	210	< 2	< 5	3	14	< 0.01	< 10	< 10	5	< 10	2
T 28063	205	238	< 1	0.14	3	480	< 2	5	7	31	< 0.01	< 10	< 10	58	< 10	12
T 28064	205	238	6	0.02	14	420	< 2	< 5	15	69	0.04	< 10	< 10	95	< 10	28
T 28065	205	238	< 1	0.04	39	300	< 2	< 5	10	7	0.06	< 10	< 10	76	< 10	60
T 28066	205	238	< 1	0.06	41	400	< 2	< 5	16	18	0.16	< 10	< 10	119	< 10	78
T 28067	205	238	< 1	0.03	75	440	< 2	< 5	27	7	0.11	< 10	< 10	167	< 10	74
T 28068	205	238	1	0.02	28	530	12	5	12	18	0.04	< 10	< 10	78	< 10	38
T 28069	205	238	< 1	0.01	41	710	4	< 5	19	12	0.02	< 10	< 10	138	10	82
T 28070	205	238	< 1	0.02	31	650	< 2	< 5	19	4	0.06	< 10	< 10	134	< 10	78
T 28071	205	238	< 1	0.02	28	620	< 2	< 5	21	4	0.08	< 10	< 10	168	10	146
T 28072	205	238	3	0.04	8	130	4	< 5	1	8	< 0.01	< 10	< 10	7	< 10	16
T 28073	205	238	1	0.04	2	100	< 2	5	1	8	< 0.01	< 10	< 10	5	< 10	8
T 28074	205	238	< 1	0.04	4	70	2	5	< 1	8	< 0.01	< 10	< 10	1	< 10	6
T 28075	205	238	1	0.04	4	100	< 2	< 5	< 1	5	< 0.01	< 10	< 10	2	< 10	8
T 28076	205	238	2	0.07	2	140	2	< 5	< 1	12	< 0.01	< 10	< 10	2	< 10	4
T 28077	205	238	1	0.03	2	130	24	5	< 1	8	< 0.01	< 10	< 10	3	< 10	4
T 28078	205	238	15	0.03	2	50	< 2	5	< 1	2	< 0.01	< 10	< 10	1	< 10	2
T 28079	205	238	16	0.03	3	140	2	5	1	10	< 0.01	< 10	< 10	1	< 10	6
T 28080	205	238	5	0.04	4	190	< 2	5	< 1	9	< 0.01	< 10	< 10	1	< 10	4
T 28081	205	238	14	0.04	< 1	180	8	< 5	< 1	6	< 0.01	< 10	< 10	2	< 10	4
T 28082	205	238	1	0.02	5	540	8	5	4	14	< 0.01	< 10	< 10	20	< 10	18
T 28083	205	238	4	0.02	4	110	8	5	< 1	9	< 0.01	< 10	< 10	2	< 10	2
T 28084	205	238	2	0.02	4	80	6	5	< 1	6	< 0.01	< 10	< 10	1	< 10	2
T 28085	205	238	6	0.04	2	80	4	5	< 1	4	< 0.01	< 10	< 10	1	< 10	8
T 28086	205	238	2	0.02	3	180	6	5	< 1	10	< 0.01	< 10	< 10	2	< 10	4
T 28087	205	238	1	0.03	1	80	2	< 5	< 1	5	< 0.01	< 10	< 10	< 1	< 10	4
T 28088	205	238	2	0.03	1	90	8	5	< 1	8	< 0.01	< 10	< 10	1	< 10	4
T 28089	205	238	< 1	0.02	6	100	4	< 5	< 1	10	< 0.01	< 10	< 10	3	< 10	4

LN 84-2

CERTIFICATION :

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 Total F : 1
 Invoice Date: 10-OCT-89
 Invoice No. : I-8926573
 P.O. Number : NONE

Project : NUCLEUS
 Comments:

CERTIFICATE OF ANALYSIS A8926573

SAMPLE DESCRIPTION	PREP CODE		Au ppb	Au FA	Al	Ag	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg
	FA+AA	oz/T	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
28090	205	238	1990	-----	0.32	1.4	490	90	< 0.5	40	< 0.01	< 0.5	< 1	94	36	1.56	< 10	1	0.19	10	< 0.01
28091	205	238	>10000	1.064	0.43	2.2	425	80	< 0.5	406	< 0.01	< 0.5	< 1	86	39	1.37	< 10	< 1	0.18	20	< 0.01
28092	205	238	60	-----	1.07	0.8	350	70	< 0.5	16	0.01	< 0.5	12	74	1175	2.18	< 10	< 1	0.16	20	0.03
28093	205	238	70	-----	0.37	0.6	55	20	< 0.5	4	0.07	0.5	13	82	194	3.08	< 10	1	0.11	20	0.16
28094	205	238	135	-----	0.84	0.8	355	40	< 0.5	36	0.07	0.5	12	88	649	2.81	< 10	< 1	0.18	20	0.09
28095	205	238	185	-----	0.93	0.6	115	60	< 0.5	10	0.02	< 0.5	9	68	926	1.51	< 10	< 1	0.16	30	0.03
28096	205	238	615	-----	0.96	0.4	40	30	< 0.5	8	0.12	< 0.5	15	62	704	1.17	< 10	< 1	0.15	20	0.03
28097	205	238	170	-----	0.56	0.4	30	20	< 0.5	< 2	0.10	< 0.5	6	71	96	2.01	< 10	< 1	0.13	20	0.26
28098	205	238	340	-----	0.45	0.6	40	10	< 0.5	8	0.15	< 0.5	7	78	117	3.19	< 10	< 1	0.11	30	0.19
28099	205	238	555	-----	0.74	0.8	65	10	< 0.5	70	0.28	< 0.5	22	59	258	4.81	< 10	< 1	0.13	30	0.43

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Total Pages: 1
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CERTIFICATE OF ANALYSIS A8926573

SAMPLE DESCRIPTION	PREP CODE		Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
28090	205	238	10	< 1	0.01	2	110	4	< 5	< 1	9	< 0.01	< 10	< 10	2	< 10	4
28091	205	238	5	< 1	0.01	3	140	8	< 5	1	10	< 0.01	< 10	< 10	3	< 10	4
28092	205	238	10	< 1	0.01	19	410	8	5	4	13	< 0.01	< 10	< 10	6	< 10	26
28093	205	238	180	< 1	0.03	14	150	6	< 5	4	5	< 0.01	< 10	< 10	2	< 10	32
28094	205	238	75	< 1	0.02	19	500	6	10	5	13	< 0.01	< 10	< 10	14	< 10	34
28095	205	238	10	< 1	0.01	17	330	4	5	5	21	< 0.01	< 10	< 10	4	< 10	16
28096	205	238	10	< 1	< 0.01	26	750	6	5	4	6	< 0.01	< 10	< 10	11	< 10	16
28097	205	238	140	< 1	0.02	4	170	10	< 5	4	3	< 0.01	< 10	< 10	3	< 10	24
28098	205	238	355	< 1	0.01	4	260	10	< 5	3	3	< 0.01	< 10	< 10	6	< 10	24
28099	205	238	390	< 1	0.01	8	690	8	10	6	5	< 0.01	< 10	< 10	25	< 10	30

CERTIFICATION:

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CERTIFICATE OF ANALYSIS A8927037

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA									
28221	205 --	45									
28222	205 --	75									
28223	205 --	140									
28224	205 --	85									
28225	205 --	55									
28226	205 --	210									
28227	205 --	65									
28228	205 --	640									
28229	205 --	170									
28230	205 --	85									
28231	205 --	250									
28232	205 --	870									
28233	205 --	50									
28234	205 --	40									
28235	205 --	75									
28236	205 --	240									
28237	205 --	230									
28238	205 --	215									
28239	205 --	175									
28240	205 --	2420									
28241	205 --	460									
28242	205 --	260									
28243	205 --	210									
28244	205 --	65									
28251	205 --	350									
28252	205 --	170									
28253	205 --	615									
28254	205 --	230									
28255	205 --	1560									
28256	205 --	530									
28257	205 --	290									
28258	205 --	120									
28259	205 --	430									
28260	205 --	680									
28261	205 --	330									
28262	205 --	45									
28263	205 --	550									
28264	205 --	70									
28265	205 --	55									
28266	205 --	45									

T89N-6

T89N-7

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CERTIFICATE OF ANALYSIS A8927037

DN89-3

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA									
28267	205 --	30									
28268	205 --	590									
28269	205 --	65									
28270	205 --	80									
28271	205 --	650									
28272	205 --	340									
28273	205 --	70									
28274	205 --	170									
28275	205 --	45									
28276	205 --	140									
28277	205 --	180									
28278	205 --	40									

CERTIFICATION: Thak Vankh



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
450 Matheson Blvd., E., Unit 54, Mississauga,
Ontario, Canada L4Z 1R5
PHONE: 416-890-0310

To: ARCHER CATHRO & ASSOC. (1981) LTD.

1016 - 510 W. HASTINGS ST.
VANCOUVER, BC
V6B 1L8

Project : NUCLEUS
Comments:

Page Number: 1-A
Total Pages: 1
Invoice Date: 18-OCT-89
Invoice No.: I-8928195
P.O. Number: NONE

CERTIFICATE OF ANALYSIS

A8928195

SAMPLE DESCRIPTION	PREP CODE		Al	Ag	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo
			%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm
28251	214	238	0.46	1.0	645	240	< 0.5	38	0.04	< 0.5	< 1	44	56	2.66	< 10	1	0.49	20	0.03	10	< 1
28252	214	238	0.34	0.4	435	110	< 0.5	14	0.02	< 0.5	< 1	41	23	0.74	< 10	< 1	0.22	10	0.02	15	5
28253	214	238	0.32	0.6	300	120	< 0.5	14	0.01	< 0.5	< 1	36	24	0.73	< 10	1	0.21	20	0.01	5	2
28254	214	238	0.36	0.4	255	110	< 0.5	6	0.02	< 0.5	< 1	38	25	0.84	< 10	1	0.28	20	0.01	5	1
28255	214	238	0.44	0.2	960	380	< 0.5	44	0.02	< 0.5	< 1	39	61	2.58	< 10	< 1	0.57	20	0.02	5	< 1
28256	214	238	0.41	0.8	525	90	< 0.5	46	0.01	< 0.5	< 1	55	30	0.75	< 10	< 1	0.32	20	0.01	10	2
28257	214	238	0.46	0.8	540	100	< 0.5	10	0.01	< 0.5	< 1	50	47	0.74	< 10	< 1	0.32	20	0.01	10	2
28258	214	238	0.45	0.4	280	150	< 0.5	4	< 0.01	< 0.5	< 1	58	134	0.85	< 10	1	0.30	20	0.01	10	4
28259	214	238	0.42	0.6	575	260	< 0.5	18	< 0.01	< 0.5	< 1	56	99	0.94	< 10	< 1	0.34	20	0.01	10	6
28260	214	238	0.46	0.8	305	210	< 0.5	30	< 0.01	< 0.5	< 1	58	28	0.77	< 10	< 1	0.31	20	0.01	5	2
28261	214	238	0.41	0.6	770	140	< 0.5	16	< 0.01	< 0.5	< 1	55	50	0.75	< 10	< 1	0.29	20	0.01	10	2
28262	214	238	0.57	0.6	225	220	< 0.5	2	< 0.01	< 0.5	< 1	53	42	1.00	< 10	< 1	0.34	30	0.01	10	2
28263	214	238	0.48	0.8	3500	130	0.5	132	0.01	< 0.5	< 1	55	143	2.57	< 10	< 1	0.52	10	0.02	10	< 1
28264	214	238	0.55	0.4	1065	250	0.5	< 2	< 0.01	< 0.5	< 1	55	51	2.44	< 10	2	0.65	10	0.02	5	< 1
28265	214	238	0.48	0.6	175	100	< 0.5	2	< 0.01	< 0.5	< 1	52	25	0.95	< 10	< 1	0.31	20	< 0.01	5	< 1
28266	214	238	0.38	0.4	285	80	< 0.5	2	< 0.01	< 0.5	< 1	58	33	0.60	< 10	< 1	0.22	20	< 0.01	10	< 1
28267	214	238	0.41	0.4	420	100	< 0.5	< 2	< 0.01	< 0.5	< 1	60	69	0.99	< 10	< 1	0.27	20	< 0.01	10	< 1
28268	214	238	0.35	1.4	375	80	< 0.5	32	< 0.01	< 0.5	< 1	61	26	0.88	< 10	< 1	0.26	20	< 0.01	10	< 1
28269	214	238	0.38	0.4	165	90	< 0.5	16	< 0.01	< 0.5	< 1	62	26	1.14	< 10	1	0.28	20	< 0.01	15	< 1
28270	214	238	0.45	0.6	185	120	< 0.5	6	< 0.01	< 0.5	< 1	67	17	1.08	< 10	< 1	0.29	20	< 0.01	15	< 1
28271	214	238	0.42	1.8	4060	190	< 0.5	16	< 0.01	< 0.5	< 1	67	35	3.38	< 10	< 1	0.65	10	0.01	10	< 1
28272	214	238	0.36	0.6	1215	90	< 0.5	2	< 0.01	< 0.5	< 1	59	19	1.07	< 10	< 1	0.31	20	< 0.01	10	< 1
28273	214	238	0.51	0.6	530	80	< 0.5	4	< 0.01	< 0.5	< 1	71	14	0.87	< 10	< 1	0.26	30	< 0.01	10	< 1
28274	214	238	1.33	0.6	315	120	< 0.5	< 2	0.02	< 0.5	3	63	231	2.88	< 10	< 1	0.40	20	0.34	45	< 1
28275	214	238	2.19	0.2	140	70	< 0.5	< 2	0.35	0.5	18	67	145	4.88	< 10	< 1	0.39	10	1.32	390	< 1
28276	214	238	1.69	< 0.2	225	80	< 0.5	< 2	0.26	< 0.5	19	69	111	4.88	< 10	< 1	0.42	10	1.28	435	< 1
28277	214	238	0.40	0.4	1150	40	< 0.5	< 2	0.07	0.5	5	77	73	3.07	< 10	< 1	0.14	20	0.11	335	1
28278	214	238	0.95	0.8	125	30	< 0.5	< 2	0.03	< 0.5	2	66	488	0.66	10	< 1	0.12	30	0.02	20	1

DN89-3

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 450 Matheson Blvd., E., Unit 54, Mississauga,
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 PHONE: 416-890-0310

To: ARCHER CATHRO & ASSOC. (1981) LTD.

1016 - 510 W. HASTINGS ST.
 VANCOUVER, BC
 V6B 1L8

F. Number: 1-B
 Total Pages: 1
 Invoice Date: 18-OCT-89
 Invoice No.: I-8928195
 P.O. Number: NONE

Project: NUCLEUS
 Comments:

CERTIFICATE OF ANALYSIS

A8928195

SAMPLE DESCRIPTION	PREP CODE	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
28251	214 238	0.01	2	130	2	5	4	19	< 0.01	< 10	< 10	31	10	12
28252	214 238	< 0.01	1	70	2	5	2	12	< 0.01	< 10	< 10	6	< 10	2
28253	214 238	< 0.01	1	70	8	5	1	9	< 0.01	< 10	< 10	2	< 10	< 2
28254	214 238	< 0.01	1	70	8	5	1	9	< 0.01	< 10	< 10	3	< 10	< 2
28255	214 238	0.01	< 1	210	20	5	6	21	< 0.01	< 10	< 10	10	10	2
28256	214 238	< 0.01	1	70	6	< 5	1	25	< 0.01	< 10	< 10	1	< 10	< 2
28257	214 238	< 0.01	1	50	4	< 5	1	11	< 0.01	< 10	< 10	1	< 10	< 2
28258	214 238	< 0.01	< 1	60	10	< 5	1	12	< 0.01	< 10	< 10	1	< 10	< 2
28259	214 238	< 0.01	1	50	10	< 5	1	8	< 0.01	< 10	< 10	< 1	< 10	< 2
28260	214 238	< 0.01	< 1	30	4	< 5	< 1	7	< 0.01	< 10	< 10	< 1	< 10	< 2
28261	214 238	< 0.01	< 1	30	6	5	< 1	7	< 0.01	< 10	< 10	< 1	< 10	< 2
28262	214 238	< 0.01	2	90	18	< 5	1	17	< 0.01	< 10	< 10	2	< 10	< 2
28263	214 238	0.01	< 1	100	20	15	3	13	< 0.01	< 10	< 10	5	< 10	4
28264	214 238	0.01	2	80	12	5	4	17	< 0.01	< 10	< 10	8	< 10	2
28265	214 238	< 0.01	< 1	60	10	< 5	1	8	< 0.01	< 10	< 10	1	< 10	< 2
28266	214 238	< 0.01	1	30	8	< 5	1	5	< 0.01	< 10	< 10	< 1	< 10	< 2
28267	214 238	< 0.01	2	50	14	< 5	< 1	6	< 0.01	< 10	< 10	< 1	< 10	< 2
28268	214 238	< 0.01	2	40	14	< 5	< 1	5	< 0.01	< 10	< 10	1	< 10	< 2
28269	214 238	< 0.01	1	50	10	5	< 1	6	< 0.01	< 10	< 10	2	< 10	2
28270	214 238	< 0.01	1	70	10	< 5	< 1	8	< 0.01	< 10	< 10	1	< 10	2
28271	214 238	0.02	< 1	250	602	35	3	17	< 0.01	10	< 10	3	10	12
28272	214 238	< 0.01	< 1	60	26	5	< 1	6	< 0.01	< 10	< 10	< 1	< 10	6
28273	214 238	0.01	< 1	80	10	< 5	< 1	9	< 0.01	< 10	< 10	< 1	< 10	2
28274	214 238	0.06	4	290	74	< 5	4	18	< 0.01	< 10	< 10	22	10	24
28275	214 238	0.08	11	390	6	< 5	10	17	0.02	< 10	< 10	67	20	98
28276	214 238	0.05	10	420	< 2	< 5	10	10	0.02	< 10	< 10	54	10	96
28277	214 238	0.02	3	100	4	< 5	2	3	< 0.01	< 10	< 10	1	10	32
28278	214 238	0.01	7	140	8	< 5	3	6	< 0.01	< 10	< 10	2	< 10	8

CNS 9-3

CERTIFICATION:

B. Coughlin



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 WestEnd Industrial Park, Pasadena,
 Newfoundland, Canada A01 1K0
 PHONE: 709-686-2119

to: ARCHER CATHRO & ASSOC. (1981) LTD.

1016 - 510 W. HASTINGS ST.
 VANCOUVER, BC
 V6B 1L8

Page Number: 1-A
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 Invoice Date: 11-OCT-89
 Invoice No.: I-8926868
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Project: NUCLEUS
 Comments:

CERTIFICATE OF ANALYSIS A8926868

SAMPLE DESCRIPTION	PREP CODE		Au ppb	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
			FA+AA																		
T28279	205	238	270	1.46	1.0	105	120	0.5	14	0.06	< 0.5	2	29	646	5.32	< 10	< 1	0.21	10	0.08	25
T28280	205	238	75	1.46	0.6	10	170	< 0.5	6	0.03	< 0.5	2	46	433	4.52	< 10	< 1	0.32	10	0.21	35
T28281	205	238	10	1.18	0.8	90	80	< 0.5	< 2	0.01	0.5	7	31	452	6.99	< 10	< 1	0.31	< 10	0.06	205
T28282	205	238	155	1.50	0.8	220	110	< 0.5	4	0.04	0.5	8	40	433	8.54	< 10	< 1	0.61	10	0.28	150
T28283	205	238	10	2.86	0.2	165	90	< 0.5	< 2	0.09	< 0.5	7	22	324	3.48	< 10	< 1	0.65	< 10	0.88	135
T28284	205	238	40	3.72	0.4	35	70	< 0.5	< 2	0.07	< 0.5	9	36	436	4.72	< 10	< 1	0.89	10	1.08	175
T28285	205	238	210	1.14	0.4	15	70	< 0.5	2	0.02	< 0.5	7	89	264	4.68	< 10	< 1	0.15	10	0.12	240
T28286	205	238	250	0.59	0.4	70	430	< 0.5	12	0.01	< 0.5	7	72	165	5.02	< 10	< 1	0.32	10	0.03	265
T28287	205	238	790	1.07	0.8	85	160	< 0.5	< 2	0.02	1.0	11	26	1130	>15.00	< 10	< 1	0.04	< 10	0.05	970
T28288	205	238	295	1.48	0.8	75	110	0.5	10	0.02	< 0.5	< 1	27	900	>15.00	< 10	< 1	0.25	10	0.04	75
T28289	205	238	95	2.11	0.6	90	100	< 0.5	2	0.03	< 0.5	2	59	370	4.60	< 10	< 1	0.34	20	0.30	35
T28290	205	238	35	2.89	0.6	< 5	200	< 0.5	10	0.05	0.5	9	125	488	7.95	< 10	< 1	0.62	10	0.34	210
T28291	205	238	105	0.48	1.0	685	190	< 0.5	16	0.01	< 0.5	6	29	148	5.05	< 10	< 1	0.46	10	0.03	160
T28292	205	238	190	0.51	1.2	385	130	< 0.5	26	0.01	< 0.5	6	29	161	3.63	< 10	< 1	0.36	20	0.02	190
T28293	205	238	70	0.40	1.0	295	130	< 0.5	10	0.01	< 0.5	5	31	121	3.37	< 10	< 1	0.36	20	0.02	150
T28294	205	238	150	0.34	0.8	240	740	< 0.5	8	0.01	< 0.5	3	40	141	3.74	< 10	< 1	0.42	10	0.02	75
T28295	205	238	65	0.43	0.6	165	160	< 0.5	< 2	< 0.01	< 0.5	3	26	124	4.70	< 10	< 1	0.44	10	0.03	210
T28296	205	238	125	0.50	0.4	150	120	0.5	8	0.01	< 0.5	4	31	157	4.75	< 10	< 1	0.38	20	0.02	330
T28297	205	238	265	0.42	0.4	150	270	0.5	6	< 0.01	< 0.5	5	22	221	4.27	< 10	< 1	0.32	10	0.02	275
T28298	205	238	140	0.55	0.8	330	120	0.5	2	< 0.01	< 0.5	6	31	397	4.80	< 10	< 1	0.43	20	0.03	310
T28299	205	238	2020	0.54	0.4	350	110	1.0	18	0.01	< 0.5	5	26	413	4.70	< 10	< 1	0.49	20	0.03	275
T28300	205	238	2350	0.61	0.4	445	220	1.0	24	0.01	< 0.5	4	26	334	6.74	< 10	< 1	0.56	20	0.03	415
T28401	205	238	45	0.40	0.2	850	750	1.0	6	0.01	< 0.5	6	26	228	5.39	< 10	< 1	0.42	10	0.01	265
T28402	205	238	1730	0.31	1.4	>10000	210	1.5	58	0.01	< 0.5	1	42	232	8.48	< 10	< 1	1.28	< 10	0.01	15

DN89-4

CERTIFICATION:

B. Coughlin



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
WestEnd Industrial Park, Pasadena,
Newfoundland, Canada A01 1K0
PHONE: 709-686-2119

To: ARCHER CATHRO & ASSOC. (1981) LTD.

1016 - 510 W. HASTINGS ST.
VANCOUVER, BC
V6B 1L8

Page Number : 1-B
Total Pages : 1
Invoice Date : 11-OCT-89
Invoice No. : I-8926868
P.O. Number : NONE

Project : NUCLEUS
Comments :

CERTIFICATE OF ANALYSIS

A8926868

SAMPLE DESCRIPTION	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
T28279	205 238	3	0.01	8	770	8	25	25	24	< 0.01	< 10	< 10	136	< 10	24
T28280	205 238	2	0.01	8	660	8	5	17	24	< 0.01	< 10	< 10	68	< 10	20
T28281	205 238	4	0.01	5	750	12	< 5	15	10	< 0.01	< 10	< 10	60	< 10	38
T28282	205 238	4	0.08	7	740	8	< 5	16	30	0.01	< 10	< 10	66	< 10	48
T28283	205 238	1	0.02	9	430	8	< 5	14	14	0.05	< 10	< 10	52	< 10	36
T28284	205 238	1	0.02	12	460	8	< 5	19	19	0.10	< 10	< 10	99	< 10	54
T28285	205 238	3	0.01	11	550	6	< 5	17	8	< 0.01	< 10	< 10	74	< 10	52
T28286	205 238	3	0.01	6	500	< 2	< 5	9	11	< 0.01	< 10	< 10	35	< 10	32
T28287	205 238	12	< 0.01	8	650	10	25	8	2	< 0.01	< 10	< 10	47	< 10	108
T28288	205 238	7	0.01	2	380	6	15	5	5	< 0.01	< 10	< 10	42	< 10	46
T28289	205 238	5	0.02	6	790	4	< 5	13	24	0.02	< 10	< 10	59	< 10	16
T28290	205 238	3	0.07	18	1090	6	< 5	25	35	0.01	< 10	< 10	126	< 10	54
T28291	205 238	5	0.02	4	730	22	130	5	19	< 0.01	< 10	< 10	21	< 10	38
T28292	205 238	6	0.01	2	550	14	120	2	21	< 0.01	< 10	< 10	7	< 10	28
T28293	205 238	7	0.01	2	540	24	75	2	18	< 0.01	< 10	< 10	6	< 10	44
T28294	205 238	6	0.01	2	430	6	80	2	22	< 0.01	< 10	< 10	7	< 10	72
T28295	205 238	4	0.01	2	520	10	40	2	18	< 0.01	< 10	< 10	7	< 10	42
T28296	205 238	3	0.01	2	690	4	35	2	19	< 0.01	< 10	< 10	5	< 10	28
T28297	205 238	4	0.01	3	520	26	40	2	21	< 0.01	< 10	< 10	5	< 10	50
T28298	205 238	4	0.01	3	560	108	50	2	20	< 0.01	< 10	< 10	7	< 10	84
T28299	205 238	4	0.02	3	750	20	60	2	23	< 0.01	< 10	< 10	8	< 10	50
T28300	205 238	5	0.02	2	810	24	60	2	29	< 0.01	< 10	< 10	11	< 10	92
T28401	205 238	7	0.02	2	620	8	60	1	24	< 0.01	< 10	< 10	9	< 10	230
T28402	205 238	7	0.04	< 1	900	20	140	12	15	< 0.01	< 10	< 10	9	< 10	38

DN89-4

CERTIFICATION :

B. Coughlin



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers
 212 BROOKSBANK AVE., NORTH VANCOUVER,
 BRITISH COLUMBIA, CANADA V7J-2C1
 PHONE (604) 984-0221

To: ARCHER CATIRO & ASSOC. (1981) LTD.

116 - 510 W. HASTINGS ST.
 VANCOUVER, BC
 V6B 1L8

Project: NUCLEUS
 Comments:

Page No. 1-A
 Tot. Pgs
 Date 16-OCT-89
 Invoice # I-8927227
 P.O. # NONE

CERTIFICATE OF ANALYSIS A8927227

SAMPLE DESCRIPTION	PREP CODE		Au ppb	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
			FA+AA	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm
28403	205	238	2500	0.38	4.0	>10000	240	< 0.5	138	0.02	< 0.5	3	39	1205	7.41	< 10	< 1	0.85	10	0.02	30
28404	205	238	140	0.49	2.2	2870	120	< 0.5	32	0.01	< 0.5	1	50	54	2.71	< 10	< 1	0.62	10	0.04	25
28405	205	238	460	0.46	1.2	5410	560	< 0.5	62	0.01	< 0.5	1	65	163	2.38	< 10	< 1	0.59	10	0.03	15
28406	205	238	130	0.53	0.6	305	480	< 0.5	26	0.01	< 0.5	1	39	290	2.10	< 10	< 1	0.47	20	0.02	20
28407	205	238	300	0.42	2.0	1920	250	< 0.5	338	0.01	< 0.5	2	57	154	3.93	< 10	< 1	0.62	10	0.01	45
28408	205	238	2140	0.58	1.4	725	230	< 0.5	832	< 0.01	< 0.5	1	83	126	2.58	< 10	< 1	0.52	20	0.04	20
28409	205	238	305	0.78	0.4	285	140	< 0.5	24	0.01	< 0.5	1	80	115	2.24	< 10	< 1	0.38	30	0.03	10
28410	205	238	70	1.09	0.2	120	100	< 0.5	8	0.04	< 0.5	4	60	495	2.53	< 10	< 1	0.34	10	0.18	65
28411	205	238	95	1.23	0.2	35	170	0.5	14	0.35	< 0.5	31	93	81	6.79	10	< 1	0.46	30	0.68	805
28412	205	238	30	1.38	0.4	100	500	0.5	2	0.22	< 0.5	17	93	306	3.65	10	< 1	0.46	40	0.35	270
28413	205	238	75	1.35	< 0.2	85	60	0.5	6	0.26	< 0.5	15	59	91	4.35	< 10	< 1	0.63	20	0.78	355
28414	205	238	< 5	1.02	0.2	60	60	< 0.5	6	0.23	< 0.5	12	85	63	3.53	< 10	< 1	0.41	20	0.57	305
28415	205	238	85	0.89	0.2	>10000	50	< 0.5	10	0.21	< 0.5	25	57	248	4.03	< 10	< 1	0.40	20	0.39	240
28416	205	238	245	0.99	0.4	15	30	< 0.5	6	0.24	< 0.5	19	42	642	5.19	< 10	< 1	0.29	50	0.49	335
28417	205	238	380	1.72	1.2	300	40	0.5	10	0.34	< 0.5	26	32	3220	6.99	< 10	< 1	0.43	20	0.61	170
28418	205	238	1400	1.39	2.8	>10000	40	< 0.5	30	0.10	< 0.5	77	31	4910	11.25	< 10	< 1	0.27	10	0.05	50
28419	205	238	320	1.15	0.6	265	40	0.5	66	0.22	< 0.5	16	64	1575	4.68	< 10	< 1	0.19	20	0.46	250
28420	205	238	740	2.22	< 0.2	80	30	< 0.5	48	0.27	< 0.5	19	58	339	5.92	< 10	< 1	0.62	10	1.52	330
28421	205	238	435	2.17	< 0.2	35	110	< 0.5	68	0.30	< 0.5	17	52	526	6.09	< 10	< 1	0.86	10	1.64	275
28422	205	238	165	1.47	0.8	35	20	0.5	62	0.25	< 0.5	16	60	1980	5.09	< 10	< 1	0.24	10	0.56	315
28423	205	238	900	1.28	0.6	70	40	0.5	28	0.14	< 0.5	11	62	1670	2.71	< 10	< 1	0.31	10	0.27	190
28424	205	238	150	2.21	0.8	155	50	1.0	12	0.14	< 0.5	13	60	5050	2.42	< 10	< 1	0.38	10	0.27	70
28425	205	238	350	2.69	1.4	310	30	1.5	16	0.18	< 0.5	21	55	6880	2.61	< 10	< 1	0.21	10	0.05	15
28426	205	238	165	1.97	0.8	120	30	1.0	10	0.18	< 0.5	16	37	3870	2.87	< 10	< 1	0.15	10	0.09	120
28427	205	238	180	1.14	0.4	60	40	1.0	8	0.20	< 0.5	8	47	1710	2.40	< 10	< 1	0.11	10	0.11	225
28428	205	238	355	1.88	0.6	155	60	1.0	8	0.12	< 0.5	9	24	2490	1.45	< 10	< 1	0.09	10	0.02	75
28429	205	238	500	2.47	0.8	170	260	1.5	12	0.17	< 0.5	9	34	3800	1.76	< 10	< 1	0.14	10	0.05	105
28430	205	238	585	1.05	0.6	270	60	0.5	16	0.02	< 0.5	5	47	2140	0.77	< 10	< 1	0.09	30	0.01	10
28431	205	238	75	1.26	0.8	115	130	1.0	6	0.10	< 0.5	12	42	2470	2.76	< 10	< 1	0.13	40	0.13	205
28432	205	238	35	0.48	0.2	35	640	< 0.5	2	0.14	< 0.5	16	43	146	3.16	< 10	< 1	0.13	60	0.14	365
28433	205	238	60	1.79	< 0.2	< 5	70	< 0.5	56	0.40	< 0.5	28	44	200	6.87	< 10	< 1	0.87	20	1.53	715

CN89-4

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TR: ARCHER CATHRO & ASSOC. (1981) LTD.

1016 - 510 W. HASTINGS ST.
VANCOUVER, BC
V6B 1L8

Project: NUCLEUS

Comments:

Page # : 1-B
Tot. # : 1
Date : 16-OCT-89
Invoice # : 1-8927227
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8927227

SAMPLE DESCRIPTION	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
28403	205	238	5	0.02	2	1320	72	245	14	18	0.01	10	< 10	15	< 10	44
28404	205	238	4	0.03	1	280	12	220	2	19	< 0.01	< 10	< 10	8	< 10	16
28405	205	238	6	0.02	< 1	500	20	180	4	24	< 0.01	< 10	< 10	6	< 10	8
28406	205	238	3	0.01	3	410	12	40	2	26	< 0.01	< 10	< 10	8	< 10	18
28407	205	238	4	0.02	2	530	500	145	5	31	< 0.01	< 10	< 10	8	< 10	38
28408	205	238	3	0.02	< 1	320	154	70	3	15	< 0.01	< 10	< 10	21	< 10	22
28409	205	238	< 1	0.01	6	410	< 2	10	6	14	< 0.01	< 10	< 10	33	< 10	16
28410	205	238	2	0.01	9	390	8	< 5	8	6	< 0.01	< 10	< 10	36	< 10	18
28411	205	238	< 1	0.02	43	500	4	< 5	10	5	0.02	< 10	< 10	66	< 10	84
28412	205	238	1	0.01	35	620	2	< 5	9	7	0.02	< 10	< 10	64	< 10	36
28413	205	238	< 1	0.02	18	400	< 2	< 5	11	4	0.06	< 10	< 10	73	< 10	38
28414	205	238	2	0.01	35	550	< 2	5	7	4	0.03	< 10	< 10	45	< 10	30
28415	205	238	< 1	0.01	23	640	< 2	5	7	5	0.03	< 10	< 10	47	< 10	26
28416	205	238	1	< 0.01	21	680	8	< 5	13	9	0.01	< 10	< 10	64	< 10	38
28417	205	238	< 1	0.01	35	1280	6	40	24	12	0.02	< 10	< 10	139	10	64
28418	205	238	< 1	< 0.01	35	490	< 2	315	6	5	< 0.01	30	< 10	27	< 10	112
28419	205	238	< 1	< 0.01	15	580	< 2	5	14	5	< 0.01	< 10	< 10	54	< 10	36
28420	205	238	< 1	0.02	11	610	< 2	5	18	4	0.03	< 10	< 10	116	< 10	42
28421	205	238	< 1	0.03	11	620	2	< 5	21	6	0.07	< 10	< 10	122	< 10	38
28422	205	238	< 1	< 0.01	16	580	10	< 5	15	7	< 0.01	< 10	< 10	65	< 10	40
28423	205	238	< 1	< 0.01	15	470	10	< 5	10	6	0.01	< 10	< 10	31	< 10	28
28424	205	238	1	0.01	57	680	18	35	11	10	0.01	< 10	< 10	48	20	78
28425	205	238	2	0.01	62	980	34	120	15	26	< 0.01	< 10	< 10	61	20	88
28426	205	238	2	< 0.01	50	820	14	75	12	11	< 0.01	< 10	< 10	60	10	76
28427	205	238	1	< 0.01	24	760	< 2	20	10	13	< 0.01	< 10	< 10	24	< 10	40
28428	205	238	3	< 0.01	70	710	10	50	7	27	< 0.01	< 10	< 10	20	10	54
28429	205	238	1	< 0.01	53	900	8	30	10	24	< 0.01	< 10	< 10	28	10	56
28430	205	238	3	< 0.01	35	250	6	65	2	24	< 0.01	< 10	< 10	5	< 10	44
28431	205	238	< 1	< 0.01	32	340	< 2	10	9	26	< 0.01	< 10	< 10	25	10	46
28432	205	238	< 1	< 0.01	7	240	2	< 5	1	12	< 0.01	< 10	< 10	4	< 10	56
28433	205	238	< 1	0.03	31	360	6	5	20	11	0.08	10	< 10	123	< 10	90

CN 4-4

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Project : NUCLEUS
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P.O. # : NONE

CERTIFICATE OF ANALYSIS A8927529

T89N-8

DN89-5

DN89-6

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA										
28245	205	---	100									
28246	205	---	1860									
28247	205	---	1940									
28248	205	---	300									
28249	205	---	360									
28250	205	---	60									
28434	205	---	25									
28435	205	---	< 5									
28436	205	---	< 5									
28437	205	---	< 5									
28438	205	---	< 5									
28439	205	---	< 5									
28440	205	---	< 5									
28441	205	---	< 5									
28442	205	---	< 5									
28443	205	---	< 5									
28444	205	---	< 5									
28445	205	---	160									
28446	205	---	10									
28447	205	---	< 5									
28448	205	---	< 5									
28449	205	---	< 5									
28450	205	---	110									
28451	205	---	100									
28452	205	---	140									
28453	205	---	10									
28454	205	---	515									
28455	205	---	20									
28456	205	---	10									
28457	205	---	10									
28458	205	---	30									
28459	205	---	< 5									
28460	205	---	30									
28461	205	---	70									
28462	205	---	5									
28463	205	---	50									
28464	205	---	20									
28465	205	---	130									
28466	205	---	35									
28467	205	---	200									

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Project : NUCLEUS
Comments :

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Total Pages: 2
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Invoice # : I-8927529
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CERTIFICATE OF ANALYSIS A8927529

O N89-6

SAMPLE DESCRIPTION	PREP CODE		Au ppb FA+AA									
28468	205	---	70									
28469	205	---	65									
28470	205	---	20									
28471	205	---	20									
28472	205	---	< 5									
28473	205	---	< 5									
28474	205	---	30									
28475	205	---	25									
28476	205	---	< 5									
28477	205	---	210									
28478	205	---	20									
28479	205	---	>> 5									
28480	205	---	>> 5									
28481	205	---	>> 5									
28482	205	---	5									
28483	205	---	55									
28484	205	---	>> 5									
28485	205	---	>> 5									
28486	205	---	30									
28487	205	---	< 5									
28488	205	---	< 5									
28489	205	---	70									

CERTIFICATION : _____



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 British Columbia, Canada V7J 2C1
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To: ARCHER CATHRO & ASSOC. (1981) LTD.

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Page Number: 1-A
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CERTIFICATE OF ANALYSIS A8928236

SAMPLE DESCRIPTION	PREP CODE	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
28434	214 238	0.66	< 0.2	610	170	< 0.5	< 2	0.05	< 0.5	2	96	48	4.21	< 10	< 1	0.35	20	0.03	110	1
28435	214 238	0.59	< 0.2	300	250	< 0.5	< 2	0.02	< 0.5	< 1	80	34	5.20	< 10	< 1	0.43	10	0.02	125	< 1
28436	214 238	0.43	< 0.2	220	150	< 0.5	< 2	0.01	< 0.5	< 1	72	27	2.05	< 10	< 1	0.24	< 10	0.01	35	< 1
28437	214 238	0.46	0.2	160	200	< 0.5	< 2	0.01	< 0.5	3	117	49	3.47	< 10	< 1	0.24	10	0.03	85	< 1
28438	214 238	0.89	0.2	105	190	< 0.5	< 2	0.05	< 0.5	2	125	61	3.28	< 10	< 1	0.28	10	0.30	90	2
28439	214 238	0.56	1.6	1345	370	< 0.5	10	0.01	< 0.5	3	110	58	2.60	< 10	< 1	0.31	10	0.07	60	< 1
28440	214 238	1.94	0.6	260	250	< 0.5	< 2	0.02	< 0.5	2	172	147	3.24	< 10	< 1	0.42	10	0.80	130	< 1
28441	214 238	0.97	0.2	180	380	< 0.5	< 2	0.01	< 0.5	1	128	51	1.99	< 10	< 1	0.33	10	0.23	85	< 1
28442	214 238	1.69	0.2	40	140	< 0.5	< 2	0.04	< 0.5	3	156	78	3.07	< 10	< 1	0.22	10	0.83	110	1
28443	214 238	1.18	0.2	30	180	< 0.5	< 2	0.05	< 0.5	2	122	53	2.51	< 10	< 1	0.20	10	0.44	70	3
28444	214 238	0.46	0.4	25	70	< 0.5	< 2	0.05	< 0.5	2	65	36	1.09	< 10	< 1	0.15	20	0.04	110	< 1
28445	214 238	0.73	0.2	530	180	< 0.5	< 2	0.03	< 0.5	4	130	51	2.41	< 10	< 1	0.33	20	0.07	90	4
28446	214 238	0.77	0.6	305	190	< 0.5	< 2	0.01	< 0.5	4	143	65	3.92	< 10	< 1	0.45	30	0.04	230	2
28447	214 238	1.75	0.2	45	140	< 0.5	< 2	0.07	0.5	7	125	164	3.21	< 10	< 1	0.54	40	0.30	145	< 1
28448	214 238	1.56	< 0.2	10	100	< 0.5	< 2	0.04	0.5	7	157	79	2.97	< 10	< 1	0.44	30	0.40	150	< 1
28449	214 238	1.29	< 0.2	95	60	< 0.5	< 2	0.01	< 0.5	10	126	70	3.52	< 10	< 1	0.45	40	0.17	225	< 1
28450	214 238	0.74	1.0	1230	150	< 0.5	< 2	< 0.01	< 0.5	5	177	85	4.20	< 10	< 1	0.50	30	0.03	190	< 1
28451	214 238	0.53	1.2	2410	100	< 0.5	< 2	0.01	< 0.5	< 1	170	34	3.28	< 10	< 1	0.59	10	0.03	45	2
28452	214 238	0.64	0.8	2210	150	< 0.5	< 2	< 0.01	< 0.5	< 1	155	32	2.23	< 10	< 1	0.61	20	0.02	45	2
28453	214 238	0.75	0.2	485	140	< 0.5	< 2	< 0.01	< 0.5	< 1	121	31	1.52	< 10	< 1	0.55	20	0.03	30	1
28454	214 238	0.58	1.4	9210	120	< 0.5	6	< 0.01	< 0.5	3	152	933	2.71	< 10	< 1	0.54	20	0.02	45	1
28455	214 238	0.70	0.8	675	170	< 0.5	6	< 0.01	< 0.5	< 1	140	89	1.82	< 10	< 1	0.51	30	0.02	35	5
28456	214 238	1.27	0.6	300	200	< 0.5	< 2	0.01	< 0.5	1	184	148	2.99	< 10	< 1	0.49	30	0.10	55	8
28457	214 238	0.75	0.6	245	140	< 0.5	< 2	0.01	1.0	< 1	151	134	2.33	< 10	< 1	0.46	30	0.02	25	1
28458	214 238	0.67	0.8	1195	200	< 0.5	< 2	0.01	1.0	< 1	172	103	3.10	< 10	< 1	0.60	30	0.02	30	3
28459	214 238	1.09	0.4	780	160	< 0.5	< 2	0.01	0.5	5	138	107	3.33	< 10	< 1	0.43	30	0.13	110	< 1
28460	214 238	0.84	3.0	4450	250	< 0.5	< 2	0.01	0.5	< 1	144	707	8.42	< 10	< 1	0.64	30	0.03	25	15
28461	214 238	1.03	0.4	735	200	< 0.5	< 2	0.02	< 0.5	< 1	126	204	5.90	< 10	< 1	0.43	30	0.15	55	14
28462	214 238	1.18	0.4	30	80	< 0.5	< 2	0.12	1.0	10	137	85	2.39	10	< 1	0.24	30	0.58	210	< 1
28463	214 238	1.44	< 0.2	230	50	< 0.5	< 2	0.27	0.5	11	189	105	3.38	< 10	< 1	0.38	20	0.94	205	17
28464	214 238	1.42	0.2	1765	50	< 0.5	< 2	0.15	2.5	11	198	192	3.12	< 10	< 1	0.27	10	0.93	200	3
28465	214 238	1.12	< 0.2	325	130	< 0.5	< 2	0.13	< 0.5	13	60	273	4.58	< 10	< 1	0.33	30	0.35	310	< 1
28466	214 238	0.97	0.2	1215	90	< 0.5	< 2	0.14	0.5	15	138	260	4.61	< 10	< 1	0.23	30	0.10	495	< 1
28467	214 238	0.93	0.2	5050	120	< 0.5	14	0.09	1.0	13	117	318	4.11	< 10	< 1	0.28	30	0.06	205	< 1
28468	214 238	2.07	< 0.2	395	60	< 0.5	< 2	2.18	< 0.5	19	161	145	5.68	< 10	< 1	0.19	10	1.53	1215	< 1
28469	214 238	1.54	< 0.2	95	30	< 0.5	< 2	1.62	< 0.5	11	157	72	3.87	< 10	< 1	0.27	10	0.84	470	< 1
28470	214 238	1.77	< 0.2	235	430	< 0.5	< 2	0.40	1.0	14	63	130	4.99	< 10	< 1	0.71	20	1.13	520	< 1
28471	214 238	1.71	< 0.2	260	160	< 0.5	< 2	0.20	< 0.5	10	100	78	4.15	< 10	< 1	0.69	20	0.75	465	2
28472	214 238	1.92	< 0.2	50	320	< 0.5	< 2	0.14	< 0.5	10	114	51	3.60	< 10	< 1	0.74	20	1.00	480	1
28473	214 238	1.75	< 0.2	195	120	< 0.5	< 2	0.29	0.5	9	110	47	3.17	< 10	< 1	0.43	20	0.75	380	< 1

DN89-5

DN89-6

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A8928236

SAMPLE DESCRIPTION	PREP CODE	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
28434	214 238	0.04	5	400	28	20	5	17 < 0	.01	10	< 10	47	< 10	48
28435	214 238	0.02	3	370	4	25	6	20 < 0	.01	10	20	41	< 10	58
28436	214 238	< 0.01	1	170	6	20	3	7 < 0	.01	10	10	9	< 10	20
28437	214 238	0.01	7	410	8	10	5	11 < 0	.01	10	10	40	< 10	58
28438	214 238	< 0.01	15	790	8	< 5	5	12 < 0	.01	10	10	82	< 10	60
28439	214 238	0.01	11	360	8	5	2	11 < 0	.01	10	< 10	32	< 10	38
28440	214 238	0.01	11	240	14	5	8	12 < 0	.01	< 10	< 10	64	< 10	52
28441	214 238	< 0.01	4	310	8	< 5	3	14 < 0	.01	10	< 10	29	< 10	32
28442	214 238	0.01	9	470	4	< 5	7	8 < 0	.01	< 10	< 10	88	< 10	50
28443	214 238	< 0.01	5	750	12	5	3	10 < 0	.01	10	< 10	66	< 10	50
28444	214 238	0.03	3	220	4	< 5	< 1	8 < 0	.01	< 10	< 10	1	< 10	36
28445	214 238	0.01	10	630	24	5	3	14 < 0	.01	< 10	< 10	40	< 10	92
28446	214 238	0.01	13	430	48	10	4	13 < 0	.01	< 10	< 10	27	< 10	122
28447	214 238	0.02	18	410	12	5	4	12 < 0	.01	< 10	< 10	21	< 10	70
28448	214 238	0.01	16	320	4	< 5	5	11 < 0	.01	< 10	< 10	27	< 10	82
28449	214 238	0.01	19	350	8	5	6	11 < 0	.01	< 10	< 10	26	< 10	136
28450	214 238	0.01	12	360	18	20	5	13 < 0	.01	< 10	< 10	17	< 10	246
28451	214 238	0.01	3	200	22	30	3	12 < 0	.01	< 10	< 10	9	< 10	26
28452	214 238	< 0.01	2	90	24	10	3	18 < 0	.01	< 10	< 10	13	< 10	8
28453	214 238	< 0.01	2	100	10	5	2	24 < 0	.01	< 10	< 10	16	< 10	6
28454	214 238	< 0.01	3	100	34	20	4	14 < 0	.01	< 10	< 10	16	< 10	16
28455	214 238	0.01	5	150	18	15	3	20 < 0	.01	< 10	< 10	20	< 10	20
28456	214 238	0.01	5	250	8	5	5	14 < 0	.01	10	< 10	36	< 10	118
28457	214 238	< 0.01	3	230	10	< 5	3	15 < 0	.01	< 10	< 10	21	< 10	12
28458	214 238	0.02	3	260	32	20	4	20 < 0	.01	< 10	< 10	17	< 10	16
28459	214 238	0.01	9	280	6	5	5	12 < 0	.01	< 10	< 10	28	< 10	122
28460	214 238	0.03	5	360	34	45	4	15 < 0	.01	20	< 10	52	< 10	164
28461	214 238	0.04	6	300	16	15	4	16 < 0	.01	< 10	< 10	29	< 10	70
28462	214 238	0.03	27	260	< 2	< 5	4	12 < 0	.01	< 10	< 10	33	< 10	62
28463	214 238	0.01	40	910	< 2	5	6	10 < 0	.03	< 10	< 10	92	< 10	72
28464	214 238	0.02	45	540	10	10	5	7 < 0	.01	< 10	< 10	90	< 10	82
28465	214 238	< 0.01	25	530	10	< 5	10	21 < 0	.01	< 10	< 10	63	< 10	42
28466	214 238	< 0.01	27	570	4	5	7	15 < 0	.01	< 10	< 10	42	< 10	34
28467	214 238	< 0.01	17	460	4	10	9	35 < 0	.01	10	< 10	36	< 10	24
28468	214 238	0.01	40	690	8	5	18	43 < 0	.01	< 10	< 10	88	< 10	46
28469	214 238	0.04	30	550	2	5	13	27 < 0	.08	< 10	< 10	57	< 10	36
28470	214 238	< 0.01	21	730	14	< 5	15	7 < 0	.04	< 10	< 10	79	< 10	98
28471	214 238	< 0.01	13	470	8	5	9	5 < 0	.05	10	< 10	41	< 10	48
28472	214 238	< 0.01	9	190	10	5	6	4 < 0	.05	< 10	< 10	26	< 10	56
28473	214 238	0.02	6	350	4	< 5	7	11 < 0	.03	< 10	< 10	30	< 10	32

DN89-5

DN89-6

CERTIFICATION : B. Coughlin



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.

1016 - 510 W. HASTINGS ST.
VANCOUVER, BC
V6B 1L8

Page number: 2-A
Total Pages: 2
Invoice Date: 18-OCT-89
Invoice No.: I-8928236
P.O. Number: NONE

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Comments:

CERTIFICATE OF ANALYSIS A8928236

SAMPLE DESCRIPTION	PREP CODE	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
28474	214 238	1.95	< 0.2	195	120	< 0.5	< 2	0.36	< 0.5	15	99	125	4.26	< 10	< 1	0.43	30	0.67	380	< 1
28475	214 238	0.78	< 0.2	90	20	< 0.5	< 2	0.12	< 0.5	8	99	167	3.61	< 10	< 1	0.10	20	0.05	200	< 1
28476	214 238	1.01	< 0.2	70	20	< 0.5	< 2	0.10	< 0.5	11	88	156	3.36	< 10	< 1	0.13	10	0.06	195	< 1
28477	214 238	0.90	< 0.2	355	340	< 0.5	< 2	0.11	1.0	11	79	232	3.61	< 10	< 1	0.15	10	0.04	130	< 1
28478	214 238	0.88	0.4	130	230	< 0.5	6	0.13	< 0.5	9	64	241	2.61	< 10	< 1	0.14	20	0.05	70	< 1
28479	214 238	0.96	< 0.2	35	60	< 0.5	< 2	0.25	< 0.5	7	74	92	2.03	< 10	< 1	0.13	20	0.13	205	11
28480	214 238	0.67	< 0.2	10	20	< 0.5	< 2	0.76	< 0.5	10	54	53	2.63	< 10	< 1	0.14	30	0.49	380	< 1
28481	214 238	0.61	< 0.2	35	20	< 0.5	< 2	0.37	< 0.5	8	62	43	1.86	< 10	< 1	0.13	10	0.39	320	< 1
28482	214 238	1.54	< 0.2	115	30	< 0.5	< 2	1.81	< 0.5	15	53	53	3.98	< 10	< 1	0.31	30	1.20	595	< 1
28483	214 238	0.76	< 0.2	115	10	< 0.5	< 2	1.23	< 0.5	18	49	112	4.34	< 10	< 1	0.07	30	0.74	790	< 1
28484	214 238	0.85	< 0.2	80	10	< 0.5	< 2	1.95	< 0.5	18	53	148	4.48	< 10	< 1	0.12	30	0.91	745	< 1
28485	214 238	1.36	< 0.2	10	20	< 0.5	< 2	1.53	< 0.5	16	66	77	4.20	< 10	< 1	0.21	30	0.94	515	< 1
28486	214 238	1.53	< 0.2	25	30	< 0.5	< 2	1.46	< 0.5	13	93	47	4.08	< 10	< 1	0.47	20	1.29	460	< 1
28487	214 238	1.04	< 0.2	75	20	< 0.5	< 2	1.34	< 0.5	9	50	21	2.90	< 10	< 1	0.12	30	0.59	490	< 1
28488	214 238	0.97	< 0.2	80	50	< 0.5	< 2	1.99	< 0.5	15	57	67	4.38	< 10	< 1	0.10	20	0.89	740	< 1
28489	214 238	2.02	< 0.2	50	70	< 0.5	< 2	0.46	0.5	25	84	173	5.03	< 10	< 1	0.21	20	0.83	640	< 1

DN89-6

CERTIFICATION:

B. Coughlin



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212 Brooksbank Ave., North Vancouver
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To: ARCHER CATHRO & ASSOC. (1981) LTD.

1016 - 510 W. HASTINGS ST.
VANCOUVER, BC
V6B 1L8

Page Number : 2-B
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Invoice Date: 18-OCT-89
Invoice No. : I-8928236
P.O. Number : NONE

Project :
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CERTIFICATE OF ANALYSIS

A8928236

SAMPLE DESCRIPTION	PREP CODE		Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
28474	214	238	< 0.01	18	700	10	5	11	8	0.01	< 10	< 10	59	< 10	62
28475	214	238	< 0.01	14	340	4	5	6	4	< 0.01	< 10	< 10	20	< 10	36
28476	214	238	< 0.01	15	280	2	< 5	7	6	< 0.01	< 10	< 10	16	< 10	46
28477	214	238	< 0.01	13	390	6	10	9	25	< 0.01	< 10	< 10	20	< 10	38
28478	214	238	< 0.01	13	410	8	10	7	37	< 0.01	< 10	< 10	17	< 10	44
28479	214	238	< 0.01	20	510	4	< 5	5	8	< 0.01	< 10	< 10	39	< 10	84
28480	214	238	< 0.01	13	340	4	5	7	25	< 0.01	< 10	< 10	22	< 10	34
28481	214	238	0.02	7	220	6	< 5	3	18	0.02	< 10	< 10	19	< 10	24
28482	214	238	< 0.01	14	540	2	5	9	39	0.01	< 10	< 10	50	< 10	38
28483	214	238	< 0.01	22	540	< 2	5	13	21	< 0.01	< 10	< 10	51	< 10	48
28484	214	238	< 0.01	17	610	2	5	11	44	< 0.01	< 10	< 10	33	< 10	34
28485	214	238	0.01	17	580	2	5	9	31	0.01	< 10	< 10	60	< 10	32
28486	214	238	0.02	20	460	< 2	5	11	30	0.09	< 10	< 10	70	< 10	36
28487	214	238	< 0.01	8	220	< 2	< 5	7	27	< 0.01	< 10	< 10	25	< 10	26
28488	214	238	< 0.01	18	610	4	5	12	46	< 0.01	< 10	< 10	43	< 10	34
28489	214	238	0.02	37	740	4	5	13	18	0.03	< 10	< 10	99	< 10	64

DN84-6

CERTIFICATION : B. Coughlin



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Project : NUCLEUS

Comments:

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Tot. pages: 1
Date : 26-SEP-89
Invoice # : I-8925688
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8925688

SAMPLE DESCRIPTION	PREP CODE	Au NAA ppb	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
T28301	205 238	17	0.43	< 0.2	40	70	< 0.5	6	0.03	< 0.5	1	65	24	0.83	< 10	< 1	0.16	20	0.02	30
T28302	205 238	5	0.39	< 0.2	65	80	< 0.5	4	0.03	< 0.5	1	65	24	0.73	< 10	< 1	0.17	20	0.02	30
T28303	205 238	7	0.44	< 0.2	135	150	< 0.5	6	0.02	< 0.5	< 1	70	29	0.75	< 10	< 1	0.23	20	0.02	20
T28304	205 238	33	0.50	< 0.2	50	130	< 0.5	22	0.04	< 0.5	1	73	34	0.96	< 10	< 1	0.28	20	0.04	35
T28305	205 238	98	0.43	< 0.2	55	100	< 0.5	14	0.03	< 0.5	1	76	39	0.99	< 10	< 1	0.23	20	0.02	20
T28306	205 238	96	0.57	< 0.2	125	340	< 0.5	20	0.02	< 0.5	< 1	43	32	1.71	< 10	1	0.52	20	0.04	10
T28307	205 238	178	0.50	< 0.2	50	540	< 0.5	38	0.03	< 0.5	< 1	36	24	1.85	< 10	< 1	0.52	20	0.04	15
T28308	205 238	91	0.51	< 0.2	90	220	< 0.5	14	0.05	< 0.5	< 1	71	43	1.51	< 10	< 1	0.34	20	0.04	25
T28309	205 238	255	0.53	< 0.2	210	120	< 0.5	18	0.06	< 0.5	1	82	70	1.54	< 10	1	0.21	20	0.05	40
T28310	205 238	227	0.52	< 0.2	410	110	< 0.5	16	0.05	< 0.5	1	82	72	1.95	< 10	< 1	0.17	20	0.04	35
T28311	205 238	7	0.49	< 0.2	500	90	< 0.5	6	0.05	< 0.5	1	82	72	1.96	< 10	< 1	0.14	20	0.04	45
T28312	205 238	20	0.54	< 0.2	320	120	< 0.5	2	0.07	< 0.5	1	76	34	1.23	< 10	< 1	0.19	20	0.06	50
T28313	205 238	10	0.41	< 0.2	120	90	< 0.5	6	0.04	< 0.5	< 1	69	27	0.86	< 10	< 1	0.15	20	0.04	35
T28314	205 238	15	0.47	< 0.2	145	110	< 0.5	6	0.05	< 0.5	1	64	26	1.06	< 10	< 1	0.20	20	0.05	55
T28315	205 238	6	0.44	< 0.2	200	90	< 0.5	2	0.03	< 0.5	< 1	74	27	1.24	< 10	< 1	0.16	20	0.03	40
T28316	205 238	11	0.44	< 0.2	155	90	< 0.5	2	0.03	< 0.5	< 1	72	17	0.88	< 10	< 1	0.16	30	0.02	30
T28317	205 238	9	0.38	< 0.2	110	70	< 0.5	4	0.02	< 0.5	1	74	22	0.71	< 10	< 1	0.14	20	0.02	20
T28318	205 238	3	0.48	< 0.2	155	90	< 0.5	6	0.02	< 0.5	< 1	84	29	1.01	< 10	< 1	0.22	20	0.02	20
T28319	205 238	7	0.46	< 0.2	100	90	< 0.5	10	0.02	< 0.5	1	76	34	1.03	< 10	< 1	0.21	20	0.03	20
T28320	205 238	4	0.57	< 0.2	75	90	< 0.5	4	0.04	< 0.5	1	98	27	0.93	< 10	< 1	0.21	20	0.04	25
T28321	205 238	6	0.50	< 0.2	115	60	< 0.5	4	0.05	< 0.5	1	86	44	1.05	< 10	< 1	0.16	20	0.05	35
T28322	205 238	6	0.47	< 0.2	90	80	< 0.5	8	0.04	< 0.5	1	76	35	0.98	< 10	< 1	0.18	20	0.03	30
T28323	205 238	164	0.42	< 0.2	55	190	< 0.5	14	0.02	< 0.5	< 1	63	21	1.09	< 10	< 1	0.36	20	0.03	15
T28324	205 238	23	0.45	< 0.2	65	140	< 0.5	16	0.02	< 0.5	< 1	76	20	1.06	< 10	< 1	0.31	20	0.02	15
T28325	205 238	76	0.47	< 0.2	65	170	< 0.5	20	0.02	< 0.5	< 1	74	24	1.20	< 10	< 1	0.35	20	0.03	15
T28326	205 238	240	0.47	< 0.2	105	130	< 0.5	8	0.01	< 0.5	< 1	89	30	1.07	< 10	< 1	0.26	20	0.02	15
T28327	205 238	184	0.44	< 0.2	135	100	< 0.5	20	0.03	< 0.5	< 1	90	32	0.93	< 10	< 1	0.21	20	0.03	20
T28328	205 238	203	0.40	< 0.2	240	100	< 0.5	12	0.02	< 0.5	< 1	77	38	1.02	< 10	< 1	0.20	20	0.02	20

T89N-1

CERTIFICATION :

B. Coughlin



Chemex Labs Ltd.

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ARCHER CAIYRO & ASSOC. (1981) LTD.

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WHITEHORSE, YT
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Project NUCLEUS

Comments

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Date : 26-SEP-89

Invoice #: I-8925688

P.O. #: NONE

CERTIFICATE OF ANALYSIS A8925688

T89N-1

SAMPLE DESCRIPTION	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
T28301	205	238	2	0.01	< 1	70	4	< 5	< 1	9	< 0.01	< 10	< 10	< 1	< 10	8
T28302	205	238	4	0.01	< 1	50	4	< 5	< 1	8	< 0.01	< 10	< 10	1	< 10	4
T28303	205	238	1	0.02	< 1	50	4	< 5	< 1	9	< 0.01	< 10	< 10	< 1	< 10	2
T28304	205	238	2	0.02	2	60	6	5	< 1	10	< 0.01	< 10	< 10	2	< 10	4
T28305	205	238	2	0.01	1	50	4	5	< 1	7	< 0.01	< 10	< 10	< 1	< 10	4
T28306	205	238	1	0.01	< 1	250	< 2	< 5	< 1	26	< 0.01	< 10	< 10	2	< 10	4
T28307	205	238	1	0.01	< 1	500	10	< 5	1	37	< 0.01	< 10	< 10	3	< 10	4
T28308	205	238	3	0.02	< 1	250	8	5	< 1	22	< 0.01	< 10	< 10	3	< 10	6
T28309	205	238	2	0.01	1	150	4	10	1	16	< 0.01	< 10	< 10	4	< 10	8
T28310	205	238	1	0.01	2	260	16	10	1	10	< 0.01	< 10	< 10	3	< 10	8
T28311	205	238	1	0.01	3	250	22	5	1	9	< 0.01	< 10	< 10	4	< 10	6
T28312	205	238	1	0.01	2	140	10	< 5	1	12	< 0.01	< 10	< 10	7	< 10	8
T28313	205	238	< 1	0.01	3	70	10	< 5	< 1	8	< 0.01	< 10	< 10	4	< 10	4
T28314	205	238	< 1	0.01	1	110	22	5	1	12	< 0.01	< 10	< 10	5	< 10	6
T28315	205	238	< 1	0.01	1	110	10	5	< 1	9	< 0.01	< 10	< 10	3	< 10	4
T28316	205	238	< 1	0.01	1	80	18	< 5	< 1	7	< 0.01	< 10	< 10	2	< 10	2
T28317	205	238	< 1	0.01	1	50	12	< 5	< 1	6	< 0.01	< 10	< 10	1	< 10	2
T28318	205	238	< 1	< 0.01	1	50	8	10	< 1	6	< 0.01	< 10	< 10	1	< 10	2
T28319	205	238	< 1	0.01	2	60	20	5	< 1	7	< 0.01	< 10	< 10	2	< 10	2
T28320	205	238	< 1	0.01	2	60	18	5	< 1	9	< 0.01	< 10	< 10	3	< 10	4
T28321	205	238	1	0.01	< 1	60	14	5	1	8	< 0.01	< 10	< 10	4	< 10	6
T28322	205	238	1	0.01	1	50	10	5	1	8	< 0.01	< 10	< 10	3	< 10	4
T28323	205	238	1	0.01	1	140	8	< 5	< 1	17	< 0.01	< 10	< 10	3	< 10	4
T28324	205	238	2	0.01	2	100	12	< 5	< 1	13	< 0.01	< 10	< 10	2	< 10	2
T28325	205	238	1	0.01	2	120	12	< 5	1	17	< 0.01	< 10	< 10	3	< 10	4
T28326	205	238	1	0.01	1	100	8	< 5	< 1	15	< 0.01	< 10	< 10	2	< 10	2
T28327	205	238	< 1	0.02	< 1	90	6	< 5	< 1	12	< 0.01	< 10	< 10	2	< 10	2
T28328	205	238	1	0.01	1	100	10	5	< 1	12	< 0.01	< 10	< 10	2	< 10	2

CERTIFICATION :

B. Coughlin



Chemex Labs Ltd.

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1016 - 510 W. HASTINGS ST.
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Project : NUCLEUS
 Comments :

Page : 2-A
 Total pages: 3
 Date : 1-OCT-89
 Invoice # : I-8926079
 P.O. # : NONE

CERTIFICATE OF ANALYSIS A8926079

SAMPLE DESCRIPTION	PREP CODE	Au ppb	Al	Ag	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	
		FA+AA	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm
T28332	205	515																			
T28333	205	60																			
T28334	205	125																			
T28335	205	35																			
T28336	205	100																			
T28337	205	30																			
T28338	205	45																			
T28339	205	265																			
T28340	205	35																			
T28341	205	30																			
T28342	205	45																			
T28343	205	45																			
T28344	205	20																			
T28345	205	50																			
T28346	205	80																			
T28347	205	50																			
T28348	205	20																			
T28349	205	30																			
T28350	205	35																			
T28351	205	10																			
T28352	205	10																			
T28353	205	< 5																			
T28354	205	< 5																			
T28355	205	45																			
T28356	205	5																			
T28357	205	10																			
T28358	205	10																			
T28359	205	< 5																			
T28360	205	25																			
T28361	205	240																			
T28362	205	1610																			
T28363	205	670																			
T28364	205	250																			
T28365	205	55																			
T28366	205	200																			
T28367	205	160																			
T28368	205	385																			
T28369	205	190																			
T28370	205	60																			
T28371	205	390																			

T89N-1

T89N-2

CERTIFICATION :

B. Coughlin



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CERTIFICATE OF ANALYSIS A8926079

T89 N-2

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	
T28372	205	20																			
T28373	205	15																			
T28374	205	15																			
T28375	205	10																			
T28376	205	25																			
T28377	205	25																			
T28378	205	55																			
T28379	205	30																			
T28380	205	< 5																			
T28381	205	10																			
T28382	205	15																			
T28383	205	10																			
T28384	205	< 5																			
T28385	205	< 5																			
T28386	205	< 5																			
T28387	205	35																			
T28388	205	660																			
T28389	205	215																			
T28390	205	80																			
T28391	205	35																			
T28392	205	10																			
T28393	205	20																			
T28394	205	25																			
T28395	205	10																			
T28396	205	< 5																			
T28397	205	< 5																			
T28398	205	< 5																			
T28399	205	< 5																			
T28400	205	10																			

CERTIFICATION :

B. Coughlin



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Project: NUCLEUS
Comments:

CERTIFICATE OF ANALYSIS

A8927037

T89N-4

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA										
28138	205 --	95										
28139	205 --	80										
28140	205 --	20										
28141	205 --	55										
28142	205 --	< 5										
28143	205 --	< 5										
28144	205 --	10										
28145	205 --	< 5										
28146	205 --	< 5										
28147	205 --	< 5										
28148	205 --	< 5										
28149	205 --	190										
28150	205 --	15										
28151	205 --	65										
28152	205 --	105										
28153	205 --	45										
28154	205 --	1790										
28155	205 --	20										
28156	205 --	140										
28157	205 --	105										
28158	205 --	< 5										
28159	205 --	95										
28160	205 --	70										
28161	205 --	110										
28162	205 --	105										
28163	205 --	120										
28164	205 --	130										
28165	205 --	15										
28166	205 --	310										
28167	205 --	50										
28168	205 --	85										
28169	205 --	65										
28170	205 --	180										
28171	205 --	305										
28172	205 --	190										
28173	205 --	215										
28174	205 --	280										
28175	205 --	115										
28176	205 --	185										
28180	205 --	20										

CERTIFICATION:

John Vink



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Comments:

CERTIFICATE OF ANALYSIS

A8927037

T84N-5

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA									
28181	205 --	45									
28182	205 --	20									
28183	205 --	30									
28184	205 --	45									
28185	205 --	35									
28186	205 --	40									
28187	205 --	560									
28188	205 --	410									
28189	205 --	60									
28190	205 --	5									
28191	205 --	< 5									
28192	205 --	10									
28193	205 --	20									
28194	205 --	< 5									
28195	205 --	135									
28196	205 --	20									
28197	205 --	20									
28198	205 --	30									
28199	205 --	< 5									
28200	205 --	40									
28201	205 --	70									
28202	205 --	20									
28203	205 --	115									
28204	205 --	120									
28205	205 --	60									
28206	205 --	360									
28207	205 --	85									
28208	205 --	150									
28209	205 --	20									
28210	205 --	180									
28211	205 --	30									
28212	205 --	15									
28213	205 --	150									
28214	205 --	550									
28215	205 --	280									
28216	205 --	15									
28217	205 --	10									
28218	205 --	220									
28219	205 --	760									
28220	205 --	1150									

CERTIFICATION:



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Total pages : 1
Date : 27-SEP-89
Invoice # : I-8926391
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8926391

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA									
T 28112	205 ---	25									
T 28113	205 ---	< 5									
T 28114	205 ---	< 5									
T 28115	205 ---	20									
T 28116	205 ---	< 5									
T 28117	205 ---	< 5									
T 28118	205 ---	< 5									
T 28119	205 ---	5									
T 28120	205 ---	25									
T 28121	205 ---	10									
T 28122	205 ---	20									
T 28123	205 ---	15									
T 28124	205 ---	20									
T 28125	205 ---	20									
T 28126	205 ---	< 5									
T 28127	205 ---	< 5									
T 28128	205 ---	5									
T 28129	205 ---	< 5									
T 28130	205 ---	< 5									
T 28131	205 ---	325									
T 28132	205 ---	50									
T 28133	205 ---	10									
T 28134	205 ---	10									
T 28135	205 ---	180									
T 28136	205 ---	< 5									
T 28137	205 ---	< 5									
T 28177	205 ---	380									
T 28178	205 ---	30									
T 28179	205 ---	285									

T89N-3

T84N-21

T86N-4

CERTIFICATION : *Shirley Vank*

APPENDIX D
TRENCH ASSAY RECORDS

DATE: Sept 189
 PROJECT: NUCLEUS

TRENCH SAMPLE RECORD

TRENCH: T89N-1
 SAMPLER: 1/2

ARCHER, CATHRO & ASSOCIATES (1981) LTD.

CERTIFICATE No.	SAMPLE No.	FROM (m)	TO (m)	WIDTH(m)	Au (g/t)					
	A8925688	T28301	0+00	0+05 E	5	0.017				
302		0+05	0+10	5	0.005					
303		0+10	0+15	5	0.007					
304		0+15	0+19	4	0.033					
305		0+19	0+22	3	0.098					
306		0+22	0+25	3	0.096					
307		0+25	0+28	3	0.178					
308		0+28	0+33	5	0.091					
309		0+33	0+36	3	0.255					
310		0+36	0+39	3	0.227					
311		0+39	0+42	3	0.007					
312		0+42	0+45	3	0.020					
313		0+45	0+48	3	0.010					
314		0+48	0+52	4	0.015					
315		0+52	0+56	4	0.006					
316		0+56	0+60	4	0.011					
317		0+60	0+64	4	0.009					
318		0+64	0+68	4	0.003					
319		0+68	0+72	4	0.007					
320		0+72	0+76	4	0.004					
321		0+76	0+80	4	0.006					
322		0+80	0+84	4	0.006					
323		0+84	0+88	4	0.164					
324		0+88	0+91	3	0.023					
325		0+91	0+94	3	0.076					
326		0+94	0+98	4	0.240					
327		0+98	1+02	4	0.184					
328		1+02	1+06	4	0.203					
A8926079		329	1+06	1+10	4	0.130				
		330	1+10	1+13	3	0.040				
		331	1+13	1+16	3	0.005				
A8926079		N/S	1+16	1+21	5					
	332	1+21	1+25	4	0.515					
	333	1+25	1+30	5	0.060					
	334	1+30	1+35	5	0.125					
	335	1+35	1+40	5	0.035					
	336	1+40	1+45	5	0.100					
	337	1+45	1+50	5	0.030					
	338	1+50	1+55 E	5	0.045					

DATE: Sept 189
 PROJECT: NUCLEUS

TRENCH SAMPLE RECORD

TRENCH: T89N-2 1/2
 SAMPLER:

ARCHER, CATHRO & ASSOCIATES (1981) LTD.

CERTIFICATE No.	SAMPLE No.	FROM (m)	TO (m)	WIDTH(m)	Au (g/t)				
	A8926079	T28350	0101E	0102	1	0.035			
351		0102	0103	1	0.010				
352		0103	0104	1	0.010				
353		0104	0105	1	<0.005				
354		0105	0106	1	<0.005				
355		0106	0107	1	0.045				
356		0107	0108	1	0.005				
357		0108	0109	1	0.010				
358		0109	0110	1	0.010				
359		0110	0111	1	<0.005				
360		0111	0112	1	0.025				
361		0112	0113	1	0.240				
362		0113	0115	2	1.610				
363		0115	0117	2	0.670				
364		0117	0120	3	0.250				
365		0120	0125	5	0.055				
366		0125	0130	5	0.200				
367		0130	0135	5	0.160				
368		0135	0140	5	0.385				
369		0140	0145	5	0.190				
370		0145	0150	5	0.060				
371		0150	0160	10	0.390				
372		0160	0170	10	0.020				
373		0170	0180	10	0.015				
374		0180	0190	10	0.015				
375		0190	0195	5	0.010				
376		0195	1100	5	0.025				
377		1100	1110	10	0.025				
378		1110	1120	10	0.055				
379		1120	1130	10	0.030				
380		1130	1135	5	<0.005				
381		1135	1140	5	0.010				
382		1140	1146	6	0.015				
383		1146	1149	3	0.010				
384		1149	1154	5	<0.005				
385		1154	1158	4	<0.005				
386		1158	1161	3	<0.005				
387		1161	1163	2	0.035				
T28388	1163	1165E	2	0.660					

DATE: Sept 189
 PROJECT:
 NUCLEUS

TRENCH SAMPLE RECORD

TRENCH:
 T89N-4
 SAMPLER:
 1/1

ARCHER, CATHRO & ASSOCIATES (1981) LTD.

CERTIFICATE No.	SAMPLE No.	FROM (m)	TO (m)	WIDTH(m)	Au(g/t)				
	AB927037	T28138	0100	0102.5E	7.5	0095			
139		0107.5	0109.5	2	0080				
140		0109.5	0112	2.5	0020				
141		0112	0113.5	1.5	0055				
142		0113.5	0120	6.5	<0005				
143		0120	0130	10	<0005				
144		0130	0140	10	0.010				
145		0140	0150	10	<0005				
146		0150	0160	10	<0005				
147		0160	0163	3	<0005				
148		0163	0167	4	<0005				
149		0167	0171	4	0.140				
150		0171	0175	4	0.015				
151		0175	0183	8	0065				
152		0183	0189	6	0.105				
153		0189	0192	3	0.045				
154		0192	0194	2	1.790				
155		0194	0197	3	0.020				
156		0197	0199.5	2.5	0.140				
157		0199.5	1103	3.5	0.105				
158		1103	1107	4	<0005				
159		1107	1117	10	0.045				
160		1117	1127	10	0.070				
161		1127	1133	6	0.110				
162		1133	1134	1	0.105				
163		1134	1139	5	0.120				
164		1139	1143	4	0.130				
165		1143	1150	7	0.015				
166	1150	1157	7	0.310					
167	1157	1161	4	0.050					
168	1161	1165	4	0.085					
169	1165	1168	3	0.065					
170	1168	1172	4	0.180					
171	1172	1175	3	0.305					
172	1175	1179	4	0.140					
173	1179	1181	2	0.215					
174	1181	1183	2	0.280					
175	1183	1193	10	0.115					
T28176	1193	1197E	4	0.185					

APPENDIX E
DRILL LOGS

Elevation	Drill contractor	Logged by	Total depth
Coordinates	Hole started	completed	Core size
Dip	Target		
Azimuth			

Depth	% Recov	Visual Log	Struct	Lithology	Alteration	Sulphide & Alteration Mineralogy										Sample Number	Assay Interval	Assay Results						
						T	Sx	PY	CP	LI	CV	CC	CO	CS	Q			F	Au (g/t)	Cu %				
20	100			-20.5 -QZ veinlets 0.5-10.0 mm, sulphide band 1-2 mm thick, block, metallic 21.55 Aisenoprite	QZ flooding w QZ-sericite alteration												T28010	200-22.0 2.0m	2.050	0.0342				
22	100		5-10° F	-Breccia zone Microgranite -22.0 - FRC w fragments, clay and LI -22.2 - fine grained siliceous rock, FRC and Breccia zones contain LI and clay ~1% vugs along FRC. -chalcedony veins 1-20mm, light grey	Same												011	22.0-24.0 2.0m	0.350	0.0184				
24	100		10° F	24.0 QZ veinlets 1-5mm wide 24.4 Monzonite - med grained rock. 24.65 Microgranite	Same												012	24.0-26.0 2.0m	0.195	0.0254				
26	100		50° F	Quartz - Feldspar Gneiss -well foliated, med. grained -25.50 -25.75 STR altered gneiss -mafic rich gneiss (10% mafics)	Some clay w LI												013	26.0-29.0 3.0m	0.475	0.0463				
28	100		F	-27.85 -QZ veinlets, 1-5 mm wide, 2% vugs -28.55 29.1	Same - Feld → KA, LI and clay along FRC												014	29.0-31.0 2.0m	0.205	0.0106				
30	100		F	Microgranite -QZ-feld matrix, fine grained, light grey, Feld + CH phenocrysts, 1-3mm -crackle breccia along CNT. 30.8	Same -10% LI and clay along FRC Mafics (Biotite?) → chlorite												015	31.0-33.0 2.0m	0.660	0.0378				
32	100		F	Quartz - Feldspar Gneiss -QZ veinlets 1-3mm wide, some 32.05 FRC w vugs	Same -4% LI along FRC, 1% diss.												016	33.0-35.0 2.0m	1.140	0.0199				
34	100		F	Quartz - Feldspar Gneiss -fine grained, light grey matrix with phenocrysts of feldspar. 1-10mm in size about 5% of rock. Quartz eyes, 1-5 mm in size, form 1% of rock. -two FRC orientations, 66% of FRC sleep to core axis, 33% flat to core axis													017	35.0-37.0 2.0m	1.510	0.0166				
36	100		10° F	-35.8 -increase in QZ FRC, 0.5-2.0mm in size, contain LI (4%), clay and 1% vugs, irregular shape, <1mm in size													018	37.0-39.0 2.0m	0.850	0.0177				
38	100		F														019	39.0-41.0 2.0m	2.390	0.0187				
40	100																							

Elevation	Drill contractor	Logged by	Total depth
Coordinates	Hole started	completed	Core size
Dip	Target		
Azimuth			

Depth	% Recov	Visual Log	Struct	Lithology	Alteration	Sulphide & Alteration Mineralogy										Sample Number	Assay Interval	Assay Results						
						T	SX	PY	CP	LI	CV	CC	CO	CS	Q			F	Av (g/t)	Cu %				
40	40.54			Quartz - Feldspar Gneiss - Quartz eyes, 1% of rock, 1-5mm - feldspar phenocrysts, 5% of rock, 1-12mm, or nodular	Supergene and clay Mod.																			
42	42.06		F	- QZ veinlets, 1-6mm wide, contain LI, VUGS and boxwork													T28020	41.0-43.0 2.0m	3.410	0.0164				
44	43.59																021	43.0-45.0 2.0m	1.760	0.0230				
46	45.11		CNT	45.50 Quartz - Feldspar - Chlorite Gneiss - well foliated, dark grey rock, QZ, Feld and mafic rich layers alternate with 1cm QZ-Feld gneiss layers	Supergene and clay WK - feld soft but not totally Al'd to clay	0			5					15	9		022	45.0-47.0 2.0m	3.950	0.0765				
48	47.55			47.1 Mafic poor, feldspar rich 47.5	clay alteration STR clay alt' MOD				10								023	47.0-49.0 2.0m	3.410	0.0789				
50	49.07			48.8 mafic rich, i.e. amphibolite	clay alt' WK				5								024	49.0-52.0 3.0m	1.400	0.0535				
52	50.6		F	50.6 increased FRC near CNT breccia w STR alteration	Supergene and clay alt' STR - green clay present				7					5	25									
54	52.12		CNT	52.10 Microgranite - pinkish, fine grained rock (<1.5mm) - occasional Qz grains 1-2mm in size - 1% vugs, 0.5-5.0cm, irregular shape, LI.	Supergene and clay alt' MOD - red oxide covering and between mineral grains - decreases away from CNT - feld → K.A.	0			1					20	10		025	52.0-55.0 3.0m	0.315	0.0189				
56	53.64			55.17 very light grey to white		0			1					30	12		026	55.0-58.0 3.0m	0.675	0.0060				
58	56.69			58.22 58.70 Manzanite - med. grained equigranular, granitic texture, 59.85 QZ, Feld, Horn rich rock	Supergene and Clay MOD	1.3	Tr		5		03			3	21		027	58.0-60.0 2.0m	0.465	0.1155				
60	59.74																							

Elevation	Drill contractor	Logged by	Total depth
Coordinates	Hole started	completed	Core size
Dip	Target		
Azimuth			

Depth	% Recov	Visual Log	Struct	Lithology	Alteration	Sulphide & Alteration Mineralogy										Sample Number	Assay Interval	Assay Results					
						T	SX	PY	CP	LI	CV	CC	CO	CS	Q			F	Au (g/t)	Cu %			
80	100															T28037	74.5-83.0 3.5m	0.340	0.5660				
81.38																							
82	100																						
82.91																							
83.25																							
83.4	100			83.25 83.65 Qz-Feld Porphyry <u>Monzonite</u>	Supergene and clay STR	2	1	0.5	1		0.5			3	3	038	83.0-85.0 2.0m	0.360	0.3590				
84				-light grey in color, med. grained granitic texture, Qz, Feld. rich	CP altered to CC, CC coats CP and Qz																		
84.43				85.05 clasts of aneise present																			
85	100			<u>Quartz-Feldspar Gneiss</u>	Same - Supergene and clay STR	1	0.5		1		0.5			10	5	039	85.0-87.5 2.5m	0.175	0.4210				
85.95				-light grey-green colored, med. grained, foliated rock	-KA common																		
86	100			-Qz veinlets, 1-5mm wide, contain soft black mineral pyrite grains coated by CC.																			
87.48				87.6																			
88	100			<u>Monzonite</u> - med. grained, granitic texture, crackle breccia along CNT.	Same	1	0.5		1		0.5			30	10	040	87.5-89.5 2.0m	0.160	0.7230				
89.0				88.8 SX along FRC																			
90	100			<u>Quartz-Feldspar Porphyry</u>	Mod. supergene and clay	20	1	0.5	0.5	Tr	0.5			20	10								
90.53				-med grey rock w white phenocrysts	-matrix more alt' near CNT																		
92	100			-fine grained matrix of QZ + feldspar w feldspar phenocrysts	-Feld → KA, except large (>6mm) phenocrysts where center is fresh	1	0.5	Tr	0.5		0.5			12	10								
92.05				1-10mm in size, Quartz eyes 0.5% of rock <2mm in size, near CNT, feldspar 2-7% of rock.																			
93.57				-sulphides occur along FRC w QZ veinlets, 1-5mm in size																			
94	100			-PY + CP form small grains coated by black mineral, CC.																			
94.79				-2 FRC orientations ~80% are 70-85° to core axis																			
96	100			~20% are 40° to core axis																			
96.32				-CP grains along FRC, QZ, PY and CC also present																			
97.38				-steep FRC have QZ + SX	Same									14	8								
98	100			while flat FRC are dry																			
98.91																							
100																							

Elevation	Drill contractor	Logged by	Total depth
Coordinates	Hole started	completed	Core size
Dip	Target		
Azimuth			

Depth	% Recov	Visual Log	Struct	Lithology	Alteration	Sulphide & Alteration Mineralogy										Sample Number	Assay Interval	Assay Results	
						Au (d/t)	Cu %												
120	100															T28052	119.5-122.0 2.5m	0.505	0.3460
121.01			Δ Δ	121.2 Crackle Breccia w Qz, PY and 121.65 black oxide matrix	Same	3	3	Tr	Tr					60	15				
122	100			AS above	Some	1	1	Tr	Tr					10	12				
122.53																053	122.0-124.0 2.0m	0.030	0.1250
124	100																		
124.05																054	124.0-126.0 2.0m	0.100	0.0920
124	100																		
125.58			STR FRC	125.85 CNT is sharp with STR FRC a										12	75				
126	100		10° CNT	126.35 low angle to core axis Quartz - Feldspar - Chlorite Gneiss	Mod Supergene and clay	0			1					10	21	055	126.0-129.5 3.5m	0.040	0.0334
127.10				- med. grained, well foliated, dark grey to black, Qz sweets < 5mm	- along FRC clay and LI present														
128	100			128.0	STR Supergene and clay									10	30				
128.63				- feldspar rich rock, strong FRC and alteration															
130	100			129.30		0	Tr	Tr	1					10	20	056	129.5-133.20 3.7m	0.080	0.0302
130.15				- back into dark grey rock - amphibolite															
132	100																		
133.20				133.20															

Elevation 936

Drill contractor CARON

Logged by T.C. Becker

Total depth 121.92m

Coordinates 1+57 W 3+36 N

Hole started Sept 6, 1989 completed Sept 8, 1989.

Core size HQ

Dip -90°

Target Gold Mineralization Belau T8311-1

Azimuth 000

Depth	% Recov	Visual Log	Struct	Lithology	Alteration	Sulphide & Alteration Mineralogy										Sample Number	Assay Interval	Assay Results						
						T	S	P	Y	CP	LI	CU	CC	CO	CS			Q	F	F	Au (g/t)	Cu (%)		
0		o o o		Casing - no recovery																				
2	2.44	o o o		Microgranite	Str supergene and clay	0											T28057	2.44-5.0	0.160	0.0155				
4	4.27	o o o	Mod to Str FRC	- light grey with red or brown oxide coating - fine grained Qz, feldspar matrix with feldspar phenocrysts	- LI and clay along FRC - reddish oxide coating													2.55m						
6	5.49	o o o	F	- contains Qz veinlets 1-2 mm wide, med grey Qz, veinlets not continuous, forms a stock work													058	5.0-8.0 3.0m	0.220	0.0227				
8	7.77	o o o	F																					
8	8.38	o o o															059	8.0-10.5 2.5m	1.750	0.0140				
10	9.75	o o o																						
10	10.36	o o o		-10.1 med. BRN. soft crumbly rock -10.65 2-3 cm fine gr. dark grey soft dyke -11.30 assoc. w BR, contains phenocrysts	Stronger supergene alteration Same																			
12	11.28	o o o			Same																			
12	12.80	o o o		-12.3 Fault zones, 5cm wide, frag. -12.7 in clay matrix	Same -less clay alteration than above																			
14	14.33	o o o	STR. FRC	- light grey, fine grained, with feldspar phenocrysts - contains numerous Qz veinlets, 1-3 mm wide, light to dark grey	- fresher appearance																			
16	15.85	o o o	F	-14.9-2-3 cm wide zone of chaledonic vein, contains frag. of wall rock. - Same as above - parallel FRC dipping 75-80° common	Qz flooding of wall rock Same																			
18	17.98	o o o		-17.4 - fault zone, 2 cm wide, BR in clay matrix	Same																			
18	18.90	o o o		-18.7 same as above w	Same w red oxide coating																			
20		o o o		-19.5 pinkish-red color Quartz-Feldspar Gneiss	rock	0																		

Elevation	Drill contractor	Logged by	Total depth
Coordinates	Hole started	completed	Core size
Dip	Target		
Azimuth			

Depth	% Recov	Visual Log	Struct	Lithology	Alteration	Sulphide & Alteration Mineralogy										Sample Number	Assay Interval	Assay Results				
						T	Py	CP	LI	CV	CC	CS	Q	F	Au (g/t)			Cu (%)				
60	100			- quartz - sericite all along Qz veinlets	- quartz - sericite																	
62	100		20° F	- 61.15 - light greyish-green color - Py occurs as diss grains in rock and in Qz veinlets w CP - CP occurs in disseminated grains along w Py and a soft BLK mineral	- Same - Py altered to a soft black mineral	2	2	Tr	1		Tr			18	9	T28079	61.0-64.0 3.0m	0.530	0.0664			
64	100			- 64.10 - light greyish-green color - minor veins present < 2 mm in width. sulphides rare	- Same - except rock looks fresher, patches of LI	0	Tr		Tr					15	5	080	64.0-67.0 3.0m	0.235	0.0026			
66	100			- 66.9 - light brown-greenish color - minor chlorite and Qz phenocrysts - feldspar phenocrysts present	- Same - feldspar in matrix and phenocrysts → KA	0			5					20	6	081	67.0-70.0 3.0m	0.050	0.0050			
70	100			- 70.3 <u>Quartz-Feldspar Gneiss</u> - light brownish-grey color - well foliated, fine grained rock	STR Supergene and clay - Qz sericite along Qz veinlets - LI and clay along FRC	0			5							082	70.0-72.0 2.0m	1.710	0.0070			
72	100		20° F	- 71.5 <u>Microgranite</u> - light greenish-grey color - fine grained Quartz, feldspar matrix with occasional feldspar and chlorite phenocrysts - discontinuous Qz veinlets common, LI along edges and < 5% small irregular vugs	- Same	0			1					30	6	083	72.0-75.0 3.0m	0.040	0.0023			
74	100		15° F	- 73.76 - larger Qz veins 1-7 mm, show Quartz-sericite alteration - Quartz in veinlets is fine grained, white to dark grey.												084	75.0-78.0 3.0m	0.110	0.0039			
78	100			- 77.75 - less LI on rock more sulphides along FRC surfaces, Py common along FRC, Cp grains coated by CC.	- Same - LI along FRC only	2	2	Tr	0.5		Tr					085	78.0-81.0 3.0m	0.270	0.0444			
80																						

Elevation 957m

Drill contractor CARON

Logged by T.C. Becker

Total depth 64.31m

Coordinates 2+03W 4+37N

Hole started Sept 8, 1989. completed Sept 10, 1989.

Core size HQ

Dip -70°

Target Gold Mineralization Below T84 N-9

Azimuth 090

Depth	% Recov	Visual Log	Struct	Lithology	Alteration	Sulphide & Alteration Mineralogy										Sample Number	Assay Interval	Assay Results			
						T	S	PI	CP	LI	CV	CC	CD	CS	Q			F	Au (g/t)	Cu %	
0	0	0		Overburden - casing 0-1.83m																	
2	1.83-2.13-2.74	90		1.83 Quartz-Feldspar Gneiss -light greenish-grey, fine-med. grained, well foliated Quartz-feldspar rich rock. -QZ veinlets w LI present and 4.0 metamorphic QZ // to foliation	STR Supergene and clay -LI along FRC -Feld → KA, Mafics → CL 3.14m - 4cm wide zone of emerald green material, // to foliation											T28251	1.83-4.0 2.17m	0.350	0.0056		
4	3.35-4.27-4.57	100		Microgranite -light greenish-grey, fine grained	Same -alteration envelope around	0				2						252	4.0-6.0 2.0m	0.170	0.0023		
6	6.10	100		Quartz, feldspar matrix with 3% 1mm euhedral feldspar phenocrysts -small, 2mm wide, QZ veinlets common, discontinuous, minor QZ flooding of wall rock	QZ veinlets											253	6.0-7.0 1.0m	0.615	0.0024		
8	7.62	100		-8.5 1cm wide zone of brecciated wall rock in a light GRN matrix												254	7.0-8.0 1.0m	0.230	0.0025		
10	9.14-9.60	100		-9.14 - 0.46m zone of breccia, frag. of wall rock, 1-40 cm in size, brown fine grained matrix w 5% vugs, irreg shape, coated in LI -9.60	Same - STR LI coating matrix and vugs Same -LI along FRC, minor clay along FRC	0				5						256	10.0-12.5 2.5m	0.530	0.0030		
12	11.12-12.50	100		-11.9 QZ veinlets w PY, LI, 1% small irregular vugs, possibly AS -12.5 present covered by GRN oxide	Same	0	2	0		0.5						257	12.5-14.5 2.0m	0.290	0.0047		
14	14.02	100		-13.5 - FRC 1.0cm true thickness, fine grained black sulphides and quartz matrix with wall rock fragments												258	14.5-16.5 2.0m	0.120	0.0134		
16	15.52	100		-16.2 - 1.5cm wide QZ vein, no visible sulphides but 5% vugs, <2mm in size, coated by LI.												259	16.5-19.0 2.5m	0.430	0.0099		
18	17.07-18.59	100		-17.3 - QZ vein, 1.5cm, dark grey QZ																	
20	100	100														260	19.0-21.5 2.5m	0.680	0.0028		

Elevation	Drill contractor	Logged by	Total depth
Coordinates	Hole started	completed	Core size
Dip	Target		
Azimuth			

Depth	% Recov	Visual Log	Struct	Lithology	Alteration	Sulphide & Alteration Mineralogy										Sample Number	Assay Interval	Assay Results				
						T	SX	RY	CP	LI	CV	CC	CO	CS	Q			F	F	Au (g/t)	Cu %	
20	20.12 100																					
22	21.64 100		50°/F													T28261	21.5 - 24.0 2.5m	0.330	0.0050			
23	23.16			-22.75 - zone of QZ veinlets w PY and AS	Same	2	2		0.5													
24	23.50 24.38 100		45°/F	-23.50 - light greenish-grey, fine grained QZ and feldspar rich rock, with phenocrysts of feldspar - Microgranite	Same Feld → KA, LI and clay along FRC	Tr	Tr		0.5							262	24.0 - 26.5 2.5m	0.045	0.0042			
25	25.3			- numerous, <2mm QZ veinlets																		
26	25.9 26.2 100			-25.9 xenoliths of Quartz-Feldspar -26.2 gneiss in microgranite												263	26.5 - 28.0 1.5m	0.550	0.0143			
27	27.15 27.25 27.74 100		30°/CNT 60°/Fol	-27.15 Quartz vein w sulphides -27.25 Breccia zone <u>Quartz-Feldspar Gneiss</u> - well foliated gneissic texture -28.75 Quartz Vein + QZ flooding	STR Supergene w QZ flooding Same	Tr	Tr		7						12	Br						
28	28.75 28.90 100		60°/CNT													264	28.0 - 29.5 1.5m	0.070	0.0051			
29	29.26 30.48 100		50°/F 60°/F	<u>Microgranite</u> - light greenish-grey in color - fine grained quartz-feldspar matrix with QZ and FX phenocrysts	STR Supergene and clay Feld → KA - LI along FRC w clay	1	1		0.5						30	3						
30	30.48 32.0 100			- Quartz veinlets common, 0.1-5 mm thick, 1-10% irregular shaped vugs <2mm in size, lined w LI and QZ crystals - minor fine grained Calcedonic QZ veinlets with SX																		
31	32.0 32.5 100		MOD FRC													266	32.0 - 35.0 3.0m	0.045	0.0033			
32	33.68 34.5 100			- some veinlets contain traces of arsenopyrite																		
33	34.5 35.2 100					Tr	Tr		0.5													
34	35.2 36.0 100		45°/F	-36.0 - widely spaced dry FRC w vugs and LI along edges												267	35.0 - 38.0 3.0m	0.030	0.0069			
35	36.73 38.25 100		50°/F																			
36	38.25 38.75 100			- numerous QZ veinlets, <2mm in size, usually discontinuous - some QZ veinlets over 2.0mm wide, open space filling QZ crystals																		
37	38.75 39.25 100															268	38.0 - 41.0 3.0m	0.590	0.0026			
38	39.25 39.43 100																					

Elevation	Drill contractor	Logged by	Total depth
Coordinates	Hole started	completed	Core size
Dip	Target		
Azimuth			

Depth	% Recov	Visual Log	Struct	Lithology	Alteration	Sulphide & Alteration Mineralogy										Sample Number	Assay Interval	Assay Results				
						T	Sy	PY	CP	LI	CU	CC	CH	CS	G			F	Au (g/t)	Cu %		
40	100			Microgranite cont as above	Same																	
41.45																	270	41.0-44.0 3.0m	0.065	0.0026		
42	100			- widely spaced FRC w vugs - 42.2 - FRC 1-10mm wide, LI along edges, vugs 1-10mm, minor chalcedony 42.98																		
43.89																	270	44.0-46.5 2.5m	0.080	0.0017		
44	100																					
45.41																						
46	100			zone of crackle breccia, 0.1-7cm / clasts light BRN. clay matrix / minor chalcedony	STR Supergene and clay												271	46.5-48.5 2.0m	0.650	0.0035		
46.94			20°	47.20 - Microgranite																		
47.60				Breccia zone - angular clasts, 0.1-3cm in size, microgranite clasts	Same																	
48.46			10°	48.50 in a BRN clay matrix / Microgranite													272	48.5-51.0 2.5m	0.340	0.0019		
49.99																						
50	100																					
51.51																	273	51.0-53.5 2.5m	0.070	0.0014		
52	100																					
52.73																						
53.64				53.64 zone of FRC, Qz Flooding	Qz flooding												274	53.5-55.0 1.5m	0.170	0.0231		
53.85				53.85																		
54	100			54.30 Chilled microgranite																		
55.17				Quartz - Feldspar - Chlorite Gneiss	MOD Supergene + clay Alt.	1.5	1.5															
55.17				Medium grey-green rock, well foliated, thin layers of QZ rich material	- pyrite grains not oxidized - near upper CNT STR alt.												275	55.0-58.0 3.0m	0.045	0.0145		
56	100		30°																			
56.39																						
56.64																						
58	100																					
58.22				58.5 Qz flooding of wall rock and	Same + Qz flooding												276	58.0-60.0 2.0m	0.140	0.0111		
58.8				58.8 small microgranite dyke																		
59.55																						
59.74			55°	59.55 / Microgranite - see above, chilled		1.5	1.5	Tr	0.5													

Elevation 918m Drill contractor CARON Logged by T.C. Becker Total depth 125.89m
 Coordinates 1+47W 1+26N Hole started Sept 10, 1989 completed Sept 13, 1989 Core size HQ
 Dip -90° Target Gold and Copper Mineralization Below T83N-3
 Azimuth 000

Depth	% Recov	Visual Log	Struct	Lithology	Alteration	Sulphide & Alteration Mineralogy										Sample Number	Assay Interval	Assay Results			
						T	Sx	PV	CP	LI	CU	CC	CD	CS	Q			F	Au (g/t)	Cu %	
0				Overburden - casing - no recovery																	
2	0																				
	2.43			2.43																	
	80	SEI		2.80 QZ-FELD Polphyry Overburden												T28279	2.43-5.0	0.270	0.0646		
4	3.05 90 3.66 90			Quartz-Feldspar Gneiss - light BRN, fine to medium grained rock, well foliated - weathered to a light BRN clay	Int Supergene and clay - Supergene overprints hypogene alteration - LI and clay along FRC.	0											2.57m				
6	5.18 90 6.71			- gneissic texture - quartz rich zones more resistant to weathering												280	5.0-7.5 2.5m	0.075	0.0433		
8	7.20 7.62 90			- 7.20 - Fractures at low angles to core axis, contain QZ, LI + vugs 0.1-20mm wide - Fractures steeper to core axis are <1mm wide, w only LI	Less supergene alt. - rock appears fresher	0				5						281	7.5-10.0 2.5m	0.010	0.0452		
10	9.14 100 10.06 90 10.97			9.65 10.50	zone of red oxide STR Sup. and clay											282	10.0-13.0 3.0m	0.155	0.0433		
12	11.84 100 12.80			12.8 Transition zone QZ rich w chlorite	Same																
14	13.7 14.17 100 14.93			13.7 Quartz-Feldspar-Chlorite Gneiss - dark grey to greenish, medium grained, well foliated rock.	Same - local variability between crumbly clay altered material and fresher QZ rich rock	0				5						283	13.0-16.0 3.0m	0.010	0.0324		
16	15.6 15.85 100 16.76			15.6 Fractures in various orientations 0.5-50 mm wide	Mod supergene and clay	0				3				20 12	284	16.0-18.5 2.5m	0.040	0.0436			
18	17.65 18.24 90 19.20			17.65 Quartz-Feldspar Gneiss - light BRN, medium grained, foliated rock	STR Supergene and clay - LI along FRC and covering rock - Feld → KA, soft white, bleached appearance	0				5					285	18.5-20.5	0.210	0.0264			
20	100			- dominantly feldspar w some QZ rich layers																	

Elevation
Coordinates
Dip
Azimuth

Drill contractor
Hole started
Target

Logged by
completed

Total depth
Core size

Depth	% Recov	Visual Log	Struct	Lithology	Alteration	Sulphide & Alteration Mineralogy										Sample Number	Assay Interval	Assay Results				
						T	S	PY	CP	LI	CU	CC	CH	CS	Q			F	Au (g/t)	Cu %		
60	100			01-100cm clasts of wall rock, subrounded, matrix is Qz + clay. Qz veinlets & minor SX																		
61.26			30° CNT	61.25																		
62	100		30° CNT	61.95 Crackle breccia zone, clay + Qz matrix 62.15 <u>Quartz-Feldspar Gneiss</u>	STR Supergene and clay - rock has a bleached appearance - LI occurs along FRC	0									20 24	T28456	61.5-63.5 2.0m	0.010	0.0148			
64	100		50° Fol	- Lt. BRN. to pale green, foliated Qz - Feld rich, bleached appearance - FRC contain Qz, LI, 10% vugs and 30% of FRC contain BRN or pale green clay												457	63.5-66.0 2.5m	0.010	0.0134			
66	100		45° F																			
66	100		30° BR	66.60 Breccia zone - 0.1-3.0 cm clasts of wall rock in BRN clay matrix 66.90												458	66.0-68.0 2.0m	0.030	0.0103			
68	100		25° QV	67.16 Qz vein - 10cm true thickness 67.35 Grey Qz w 1mm vugs, 0.1% SX												459	68.0-70.5 2.5m	0.005	0.0107			
70	100															460	70.5-72.5	0.030	0.0707			
72	100		40° FRC	- Crackle breccia zone, 0.1-5.0 cm angular frag. of wall rock in - 72.00 clay matrix, 0.1-3mm wide veins of fine grained sulphides	STR Supergene and clay - LI along FRC and covering rock	0.2									Br		2.0m					
74	100															461	72.5-75.0 2.5m	0.070	0.0204			
76	100		MOD FRC	- 74.5 - darker grey in color - higher chlorite content, less intense bleached look 76.0 Qz content of rock increases 76.5 Quartzite - fine grained, light	Same Mod Supergene and clay Same	0										462	75.0-77.5 2.5m	0.005	0.0085			
78	100		30° CNT	77.27 77.4 Quartz-Feldspar Gneiss	weak supergene and clay	1.5	1.5								20 18	463	77.5-80.0 2.5m	0.050	0.0105			
80	100			- PY forms along FRC - FRC from 1-3 mm wide, 25% green clay																		

Elevation	Drill contractor	Logged by	Total depth
Coordinates	Hole started	completed	Core size
Dip	Target		
Azimuth			

Depth	% Recov	Visual Log	Struct	Lithology	Alteration	Sulphide & Alteration Mineralogy										Sample Number	Assay Interval	Assay Results				
						T	Py	CP	LI	CU	CC	CS	Q	F	F			Au (g/t)	Cu %			
20	20.12-75 20.73			-unit dominated by clay minerals																		
22	100 21.64			-22.0 -unit contains fine grained mica plates, muscovite?	Alteration not as strong -Feld → KA											2 10 T28471	22.0-25.0 3.0m	0.020	0.0078			
24	100 23.16 24.64		60° Fol	-rock has a pinkish color	- red oxide covering rock - black oxide along FRC																	
26	100 26.21															472	25.0-28.0 3.0m	<0.005	0.0051			
28	100 27.13 28.65			-28.7 -28.9 Quartzite - f. gr. Lt grey																		
30	100 29.56 30.63			- mica not present - high clay content BRN -30.63 -31.0 Quartzite	Stronger supergene Alt. -black oxide along FRC																	
32	100 31.70 32.92		60° F	Same as 28.9-30.63 -32.40 -pinkish BRN color well foliated	Same STR supergene over prints																	
34	100 34.44		5° F	QZ-Feld. Gneiss -34.0 10mm FRC, filled w PY -34.5 20cm Breccia, BRN clay matrix w <1.0mm clasts	other alteration types Feld → KA																	
36	100 35.66		20° F 10° F	-36.0 QZ veinlets, <2.0mm, chloridom -36.40 crackle breccia zone, 3-30mm -36.80 angular clasts, f. gr. matrix	Same																	
38	100 37.18 37.49 38.40		5° CNT	-38.40 crackle breccia zone, vugy -38.60 LI coated matrix																		
40	100 39.92			QZ-Feld. Gneiss -reddish BRN in color	Same -red oxide coats rock, LI along FRC											477	39.0-42.0 3.0m	0.210	0.0232			

Elevation	Drill contractor	Logged by	Total depth
Coordinates	Hole started	completed	Core size
Dip	Target		
Azimuth			

Depth	% Recov	Visual Log	Struct	Lithology	Alteration	Sulphide & Alteration Mineralogy										Sample Number	Assay Interval	Assay Results						
						T	Sx	PY	CP	LI	CV	CC	CO	CS	Q			F	F	Au (g/t)	Cu %			
40	70			- fine grained, well foliated, gneissic texture																				
42	90			- narrow zones of stronger supergene alteration to BRN clay													T28478	42.0 - 45.0 3.0m	0.020	0.0241				
	42.37		85°	- FRC light w minor LI and some vugy QZ, 3% vugs																				
	42.98			- 431 Crockle Breccia Zone																				
44	90																							
	43.89																							
	44.70																							
	44.81																							
	46.00																479	45.0 - 48.0 3.0m	<0.005	0.0042				
	46.74																							
48	100																							
	47.24																							
	48.16																480	48.0 - 50.0 2.0m	<0.005	0.0063				
	49.07																							
50	100				Red oxide ends at CN7																			
	49.84		30°	- 498 QZ-FX-CH Gneiss	Mod Sup and clay																			
	50.29			- 50.35 QZ-FX Gneiss - pale grey to white	Some	0											481	50.0 - 52.0 2.0m	<0.005	0.0043				
	51.03																							
52	100																							
	51.36		20°	- fine - medium grained, QZ rich, QZ veinlets w PY	- wk. LI along FRC																			
	52.12			- 519 QZ-FX-CH Gneiss	WK Sup. and clay																			
	53.34		85°	- dark grey to black, med. grained well foliated, CH rich, w QZ + FX	- calcite and green clay along FRC	0	Tr				05						482	52.0 - 54.5 2.5m	0.005	0.0053				
	53.34			- FRC contain minor coarse grained PY w QZ, CA and MM.	FRC																			
54	100																							
	54.10			- 54.40 QZ-FX Gneiss see above	Same	0.3	03										483	54.5 - 55.5 1.0m	0.055	0.0112				
	55.17		60°	- 55.40 QZ vein 20 cm wide, dark grey, QZ (SX) with 5% PY and 20% wall rock fragments	- dry FRC have STR LI and minor clay																			
56	100																							
	56.64		60°	- numerous small QZ FRC w PY, FRC discontinuous, and wk.													484	55.5 - 57.0 1.5m	<0.005	0.0148				
	57.30			- 57.30 QZ-FX-CH Gneiss	Same																			
58	100																							
	58.37		30°	- greenish dark grey, fine-med grained, well foliated	- calcite and green clay along FRC	0	Tr										485	57.0 - 59.0 2.0m	<0.005	0.0077				
	59.59			- narrow FRC, <1.0mm wide, filled w QZ and PY	- calcite 1mm thick																			
60	100																486	59.0 - 61.0 2.0m	0.030	0.0047				
	59.59		5°	- 59.60 QZ-FX Gneiss	Same	0																		

