ARCHER, CATHRO
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CONSULTING GEOLOGICAL ENGINEERS

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88-015

REPORT ON DRILLING AND TRENCHING PROGRAM NUCLEUS PROPERTY BIG CREEK AREA, YUKON TERRITORY

Nucleus 1-12	YA51189-YA51200
Nucleus 13-18	YA51201-YA51206
Nucleus 19-34	YA51207-YA51222
Nucleus 35-50	YA60256-YA60271
Nucleus 51	YA82735
Nucleus 52F	YA82736
Nucleus 53-90	YA82737-YA82774
Nucleus 91-101	YA82910-YA82920
Nucleus 102-104	YA82921-YA82923
Nucleus 105-115	YA82924-YA82934
Nucleus 116	YA82935
Nucleus 117	YA82936
Nucleus 118	YA82937
Nucleus 119	YA82938
Nucleus 120-126	YA82939-YA82945
Nucleus 127-141	YA82946-YA82960
MEC 1-8	YA93679-YA93686
ERL 116	YA92451
ERL 118	YA92453
ERL 120	YA92455
ERL 138-150	YA92473-YA92485
ERL 164-178	YA92499-YA92513
ERL 191-206	YA92524-YA92539
ERL 216-234	YA92547-YA92565
ERL 237-268	YA92568-YA92599
ERL 269-274	YA93132-YA93137

Latitude 62°20′ Longitude 137°30′ NTS 115I/6

Whitehorse Mining District

EIP Designation Number 88015

BIG CREEK JOINT VENTURE

February, 1989

C.A. Main, B.Sc.

Work done between May 10 and September 4, 1988

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SUMMARY AND RECOMMENDATIONS

The Nucleus property is located in the Big Creek area in central Yukon near the southeast end of the Dawson Range Gold Belt, 80 km by road from the village of Carmacks and a further 160 km from the city of Whitehorse. The Big Creek area has received placer mining activity since early in the century and one of the more prolific producers in the Yukon is on Revenue Creek, 3 km east of the Nucleus property.

A small lens of gold-bearing massive copper sulphides was found on the adjoining Revenue property in 1950 and the area was explored for that type of mineralization from then until 1955. Following discovery of the Casino deposit, 75 km to the northwest, the area was re-examined for porphyry copper potential between 1968 and 1970. Since 1980, the area has been explored for gold with the most recent work focusing on heap-leachable oxide mineralization.

The Nucleus property was staked in 1980 by Nat Joint Venture (Chevron Minerals Ltd. and Armco Minerals Exp. Ltd.) to cover gold/arsenic stream sediment anomalies. Nat JV explored the property by prospecting, soil geochemical sampling, geological mapping, linecutting, bulldozer and excavator trenching, a geophysical survey (EM-16) and diamond drilling (3 holes totalling 315.2 m) during the period 1980 to 1986. Two areas with gold mineralization (the Anomaly 1 and Anomaly 2 Zones) were identified. Armco no longer has any interest in Nat JV.

The property was optioned to Big Creek Resources Ltd. (BCRL, formerly Nordac Mining Corporation) in April 1987 and is presently held by Big Creek Joint Venture (BCJV) consisting of BCRL and Rexford Minerals Ltd. The 1988 program consisted of a rotary drilling program on a limited part of Anomaly 2

Zone and was designed to prove up a body of easily mineable, higher than average grade mineralization suitable for test heap leach mining. The program was managed by Archer, Cathro & Associates (1981) Limited.

Nucleus Reserves

A 1984 reserve calculation, based on trenching data extrapolated to a depth of 60 m, produced the following mineral inventory.

Anomaly 1 Zone

Grade - Gold		Tonnage		Gold Content	
g/t	(opt)	tonnes	(tons)	grams	(ounces)
0.93	0.027	641,200	700,000	615,540	19,600
1.03	0.030	512,960	560,000	545,190	17,360
1.23	0.036	384,720	420,000	501,225	15,960
1.44	0.042	320,600	350,000	450,660	14,350

Anomaly 2 Zone

Grade - Gold		Tonnage		Gold Content	
g/t	(opt)	tonnes	(tons)	grams	(ounces)
0.93	0.027	4,506,720	4,920,000	4,171,800	132,840
1.03	0.030	3,664,000	4,000,000	3,768,600	120,000
1.23	0.036	2,482,350	2,710,000	3,063,900	97,560
1.44	0.042	1,941,900	2,120,000	2,796,300	89,040

Preliminary metallurgical testing indicated that oxidized mineralization responds reasonably well to cyanidization. All surface exposures are well oxidized and drilling showed that most rocks are oxidized to 60 m depth. Therefore, most of the reserves are likely to be cyanide amenable.

1988 Drill Program

The first phase of the 1988 drill program was confined to a 160 by 120 m area in the Anomaly 2 Zone and consisted of 30 shallow holes (each 30 m deep) on a regular 20 by 20 m grid pattern. The average grade of the drill holes was similar to the average grade in the trenches, but two holes intersected

significantly higher grade mineralization, with hole 88-8 averaging 35.72 g/t gold over 13.72 m (1.03 opt gold over 45 feet). This suggested the presence of a previously unidentified structure (tentatively called the "Stephen Vein") and a second phase of drilling was conducted to confirm the presence of such a structure and determine its orientation, width, and average grade. Results showed that if the vein exists, the mineralization must be erratically distributed. One drill hole in the second drill phase passed 20 m below the best intersection in hole 88-8 but was unmineralized and two trenches cut across the expected surface trace of the vein produced no evidence of a structure or mineralization. Nevertheless, two later drill holes did intersect good mineralization, with hole 88-31 averaging 11.31 g/t gold over 6.1 m (0.33 opt over 20 feet). The inconsistent nature of the mineralization in the Stephen Vein is problematic and no attempt was made to calculate a separate high grade reserve for this area. Considering the excellent intersections obtained in some holes, additional drilling is certainly warranted to further evaluate this target.

Results of all 1988 drill holes were used to calculate a reserve for the drill tested portion of the Anomaly 2 Zone. Assays for the area as a whole are also extremely variable and there is no obvious preferred orientation to the mineralization. In making the calculation, the entire drilled-off volume (including the Stephen Vein) was treated as an isometric mass and all grades were determined using uncut data (assays exceeding 5.0 g/t gold were cut to that value).

The work outlined 211,925 tonnes with a cut (uncut) grade of 2.15 (3.16) g/t gold and a waste to ore ratio of 4.59:1 using a 1 g/t gold cutoff. The contained

cut (uncut) amount of gold is 455,640 (669,680) gm or 14,500 (21,324) oz. The mineralization is situated near surface, is probably oxidized, and can be mined from a relatively small open pit. The reserves are considered proven because the maximum distance between data points is only 20 m.

There is every reason to believe that the area of higher than average grade mineralization outlined by the 1988 drill program could be expanded with additional drilling. There is also excellent potential to increase total reserves in the Anomaly 1 and 2 Zones and to find additional mineralization elsewhere on the property.

Further Exploration

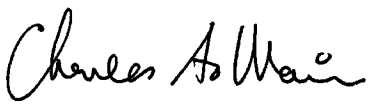
The next phase of exploration should be directed toward the following objectives.

1. Cyanide amenability tests should be conducted on samples collected during 1988 and additional samples that will be taken in 1989, at an estimated cost of $30,000.
2. Drilling and trenching should continue within and around the Anomaly 1 and 2 Zones, with particular emphasis on the Stephen Vein to increase proven and indicated reserves. This will require:
   i) 3000 m of rotary drilling in about 40 holes at a budgeted cost of $120,000;
   ii) 300 hours of D8 bulldozer trenching at a budgeted cost of $110,000; and,
   iii) 100 hours of excavator trenching at a budgeted cost of $40,000.

The total estimated cost of the proposed program is $300,000 which will be more than sufficient to complete the work commitment of $172,000 required by the Chevron option before the end of 1989.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



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C.A. Main, B.Sc.

INTRODUCTION

The Nucleus property covers an oxidized heap leach gold target acquired by Nat Joint Venture (Chevron and Armco) by staking in August, 1980. Chevron, which now holds the assets of Nat JV, optioned the Nucleus property to Big Creek Resources Ltd. (BCRL, formerly Nordac Mining Corporation) in April, 1987. The property is presently held by Big Creek Joint Venture (BCJV) consisting of BCRL and Rexford Minerals Ltd.

During the period 1980-1986, Chevron conducted geochemical and geophysical surveys followed by bulldozer trenching and diamond drilling. Two areas with gold mineralization, called the Anomaly 1 and Anomaly 2 Zones, were identified.

The 1988 program, which was funded by BCJV, consisted of a rotary drilling program on a limited part of the Anomaly 2 Zone and was designed to proveup a body of easily mineable, higher than average grade mineralization suitable for test heap leach mining. The program was managed by Archer, Cathro with C.A. Main as project manager. Geologist T. Becker was field supervisor and B. Wengzynowski, L. Eaton, L. Leroux, M. Phillips, R. Hancox, G. MacIntosh and N. Hachey were field assistants. S. Wettlaufer was cook.

PROPERTY, LOCATION AND ACCESS

The Nucleus property is owned by Chevron and is held under an option dated April 21, 1987 by BCRL which entered into Big Creek JV, consisting of BCRL (55%) and Rexford (45%) on May 13, 1987. It consists of 253 contiguous mineral claims recorded in the Whitehorse Mining Recorder's office as follows.

Claim Name		Grant Number	Expiry Date
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 91-101	11	YA82910-YA82920	February 19, 1993
Nucleus 102	1	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
	253		

The property is situated on the south side of the Big Creek Valley at the southeast end of the Dawson Range (see Figures N-1 to 3), 80 km by all- weather road northwest of Carmacks. It is located at latitude 62°20'N and longitude 137°30'W within NTS claim sheet 115I/6.

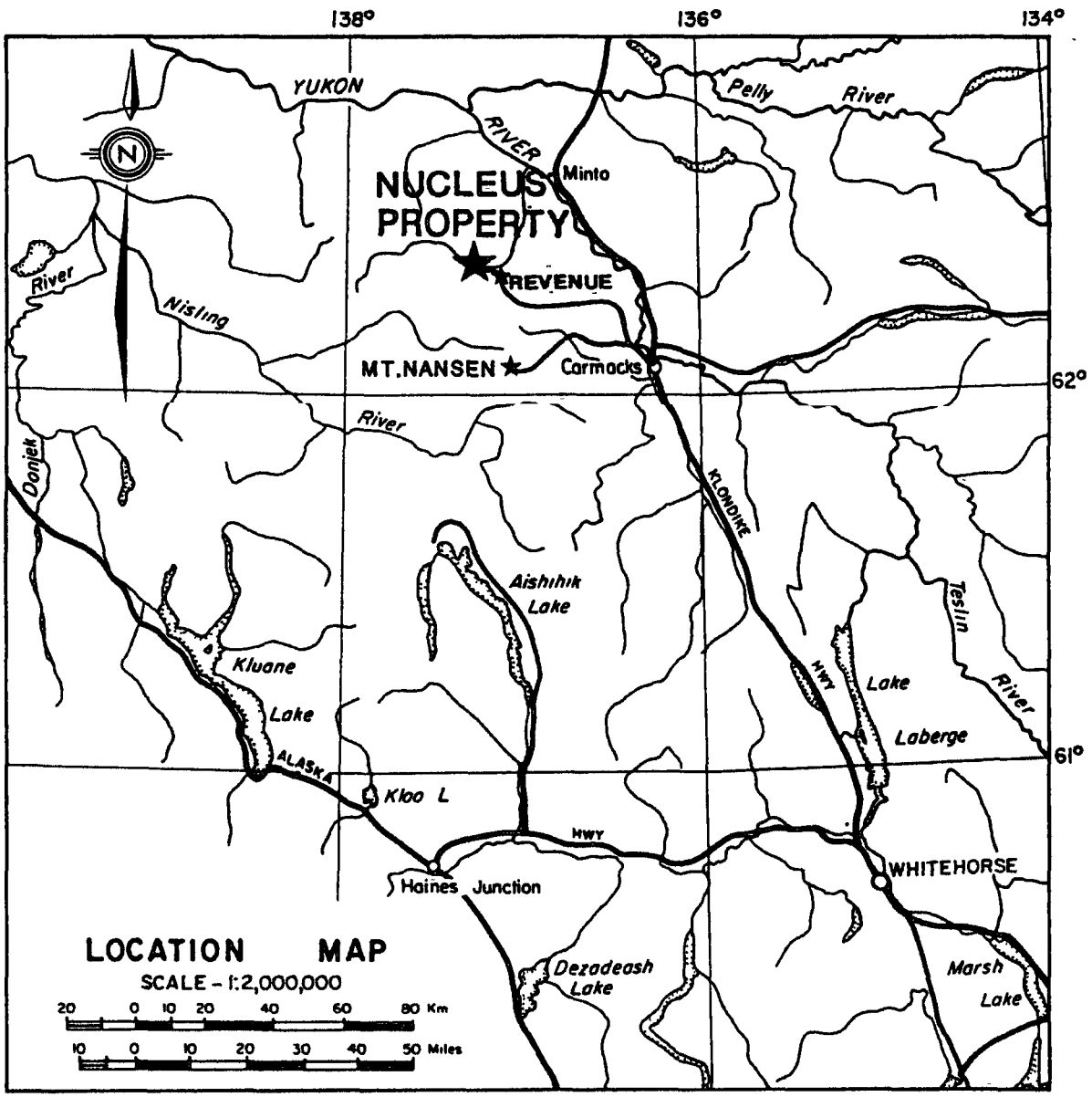


Figure N-1

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GENERAL LOCATION MAP

NUCLEUS PROPERTY

BIG CREEK AREA

BIG CREEK RESOURCES LTD.

REXFORD MINERALS LTD.

SCALE - 1:2,000,000

0 20 40 60 80 100Km

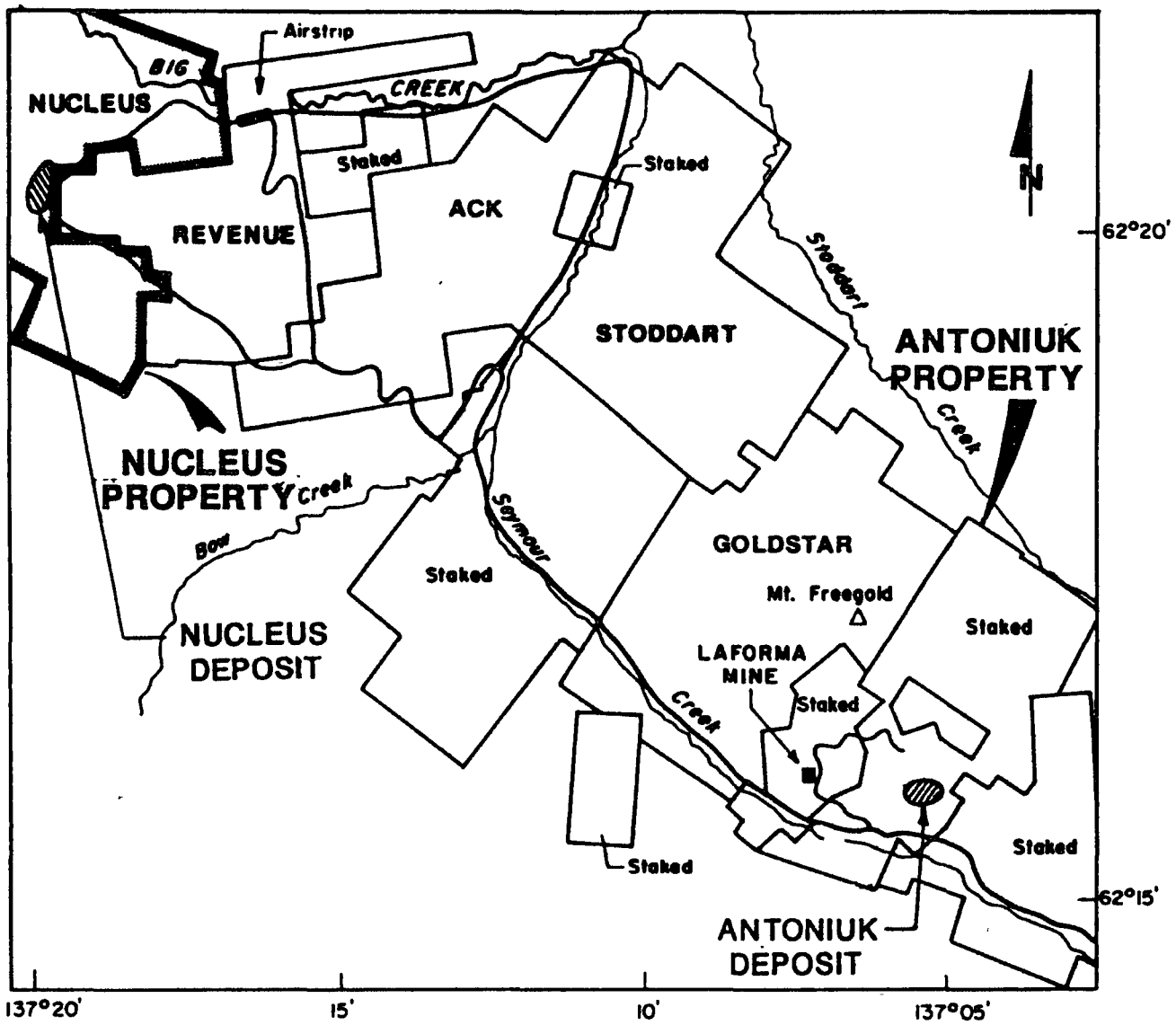


Figure N-2

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PROPERTY LOCATION MAP

NUCLEUS PROPERTY

BIG CREEK AREA, Y.T.

BIG CREEK RESOURCES LTD.
REXFORD MINERALS LTD.

SCALE 1:100,000

0 1 2 3 4 5 Km

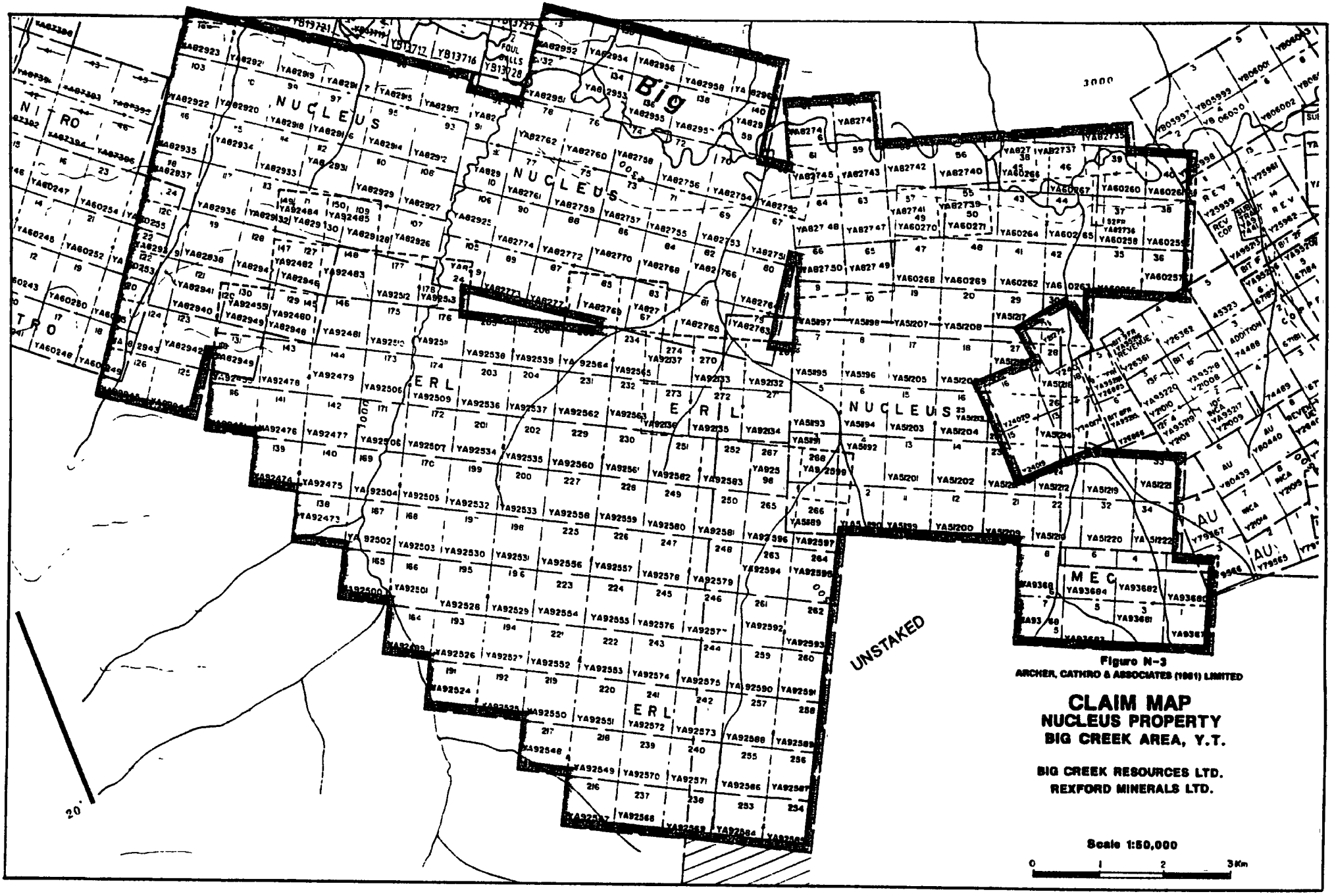


Figure N-3

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

CLAIM MAP
NUCLEUS PROPERTY
BIG CREEK AREA, Y.T.

BIG CREEK RESOURCES LTD.
REXFORD MINERALS LTD.

Scale 1:50,000

0 1 2 3Km

The 1988 program was conducted from a permanent campsite situated at the mouth of Bowlidden Creek, a tributary of Big Creek, about 5 km east of the Nucleus property. Travel between camp and the property was by means of four-wheel drive vehicle.

PHYSIOGRAPHY AND GEOMORPHOLOGY

The property lies within the Dawson Range, an extensively eroded plateau, much of which is unglaciated. The earliest Pleistocene glacial event, the Pre-Reid, has left deposits of till on some parts of the Nucleus property. Deposits are thickest, up to about 25 m, in the Big Creek Valley and thin upslope to the south to 825 m above sea level and, above this elevation, deposits have been eroded. Below this elevation, the till is also covered by post-glacial lacustrine and fluvial deposits up to 3 m thick consisting of layers of fossil-rich peat and black organic soil ("black muck"). Widely separated shoreline deposits have been preserved within the Big Creek Valley suggesting the existence of an extensive pro-glacial lake.

About 1200 years ago, volcanic activity in the White River area deposited an extensive layer of ash throughout the central part of Yukon. On the Nucleus property, it covers all north- and east-facing slopes to depths that range from a few centimeters up to one-half metre near ridge tops.

Sparse forests of spruce and fir cover north-facing slopes while scattered stands of aspen occur on steeper, better drained, south-facing slopes. Mosses, lichens, and willows form the ground cover, effectively insulating the permanently frozen ground.

The Big Creek Valley, which is at an elevation of 600 m is asymmetrical with the north side forming a steep slope of about 27° with frequent outcrops and cliffs. On the south side where the Nucleus property is situated, slopes are about 17° and are covered with extensive soliflucted overburden. The maximum elevation on the property is about 1000 m.

HISTORY AND PREVIOUS WORK

The Big Creek area has a long history of placer gold exploration dating to the early part of the century. Revenue Creek, which lies 3 km east of the Nucleus property, has been placer mined since the early 1930's. Mechanic Creek, which drains the Nucleus property, has been a sporadic placer producer in recent years.

The Revenue Creek area was the center of a hard rock staking rush in 1951 following the discovery of a lens of gold-bearing massive copper mineralization. The Nucleus property was staked at that time but received no exploration. It was restaked in 1969 as the Com claims by Cominco which conducted minor geochemical surveys; in 1974 as the Roc etc. claims by Klotassin JV which conducted minor geochemical surveys; in 1968 as part of the Revenue property; and, in 1979 as the Cash claims by private individuals from Whitehorse.

The Revenue property was explored for massive sulphide mineralization (mainly in the original discovery area) from 1950 to 1955 and, following discovery of the Casino deposit in 1968, was re-examined for porphyry copper mineralization between 1968 and 1970. Since 1980, the area has been explored for gold and from 1984 to present has been evaluated for its heap leach potential. The Nitro (Klazan) property which lies to the west of the Nucleus property was explored during 1966 to 1970 for copper porphyry mineralization, was restaked by Nat JV in 1980 for gold, and is now under option to BCJV.

The Nucleus property was restaked in August, 1980 by Nat JV to cover gold/arsenic stream sediment anomalies discovered during a regional survey and was explored by prospecting, soil geochemical sampling and geological mapping in 1980; linecutting, soil sampling and mapping in 1981; mapping, soil sampling

and chip sampling in 1982; bulldozer trenching in 1983; linecutting, soil sampling, a geophysical survey (EM-16) and diamond drilling (3 holes totalling 315.2 m) in 1984 and bulldozer and excavator trenching in 1986. All of this work has been reported in Nat JV annual reports by W.D. Eaton of Archer, Cathro. Armco no longer has any interest in Nat JV.

The northeastern part of the Nucleus property (Vest Pocket Zone) was explored by BCJV during 1987 by bulldozer and excavator trenching and the results were included in a report by C.A. Main of Archer, Cathro on the Revenue Property.

1988 PROGRAM

General

A Caterpillar D8 bulldozer and 225 excavator were contracted from Ibex Contracting Limited of Whitehorse to build drill sites and access roads and dig metallurgical test pits. Drilling was done using a track-mounted Shramm rotary percussion drill contracted from E. Caron Diamond Drilling Ltd. of Whitehorse. Drill site preparation began in mid-May and the initial drill program was completed on June 12. To followup encouraging results, a second phase of drilling was conducted between August 30 and September 4. Sample processing required a further two weeks of crew time after drilling finished and the field camp was abandoned September 18. Samples of drill cuttings and bulk samples from excavator pits were sent to Vancouver for metallurgical testing but, because of budget constraints, this metallurgical work has yet to be completed.

Drill Sample Procedures

Because of inconsistent recoveries while the holes were being collared, the initial sample from each hole was taken from the first 3.05 m (10 feet) and thereafter samples were taken over successive 1.52 m (5 feet) intervals. Samples were labelled by hole number and depth of interval and processed as follows.

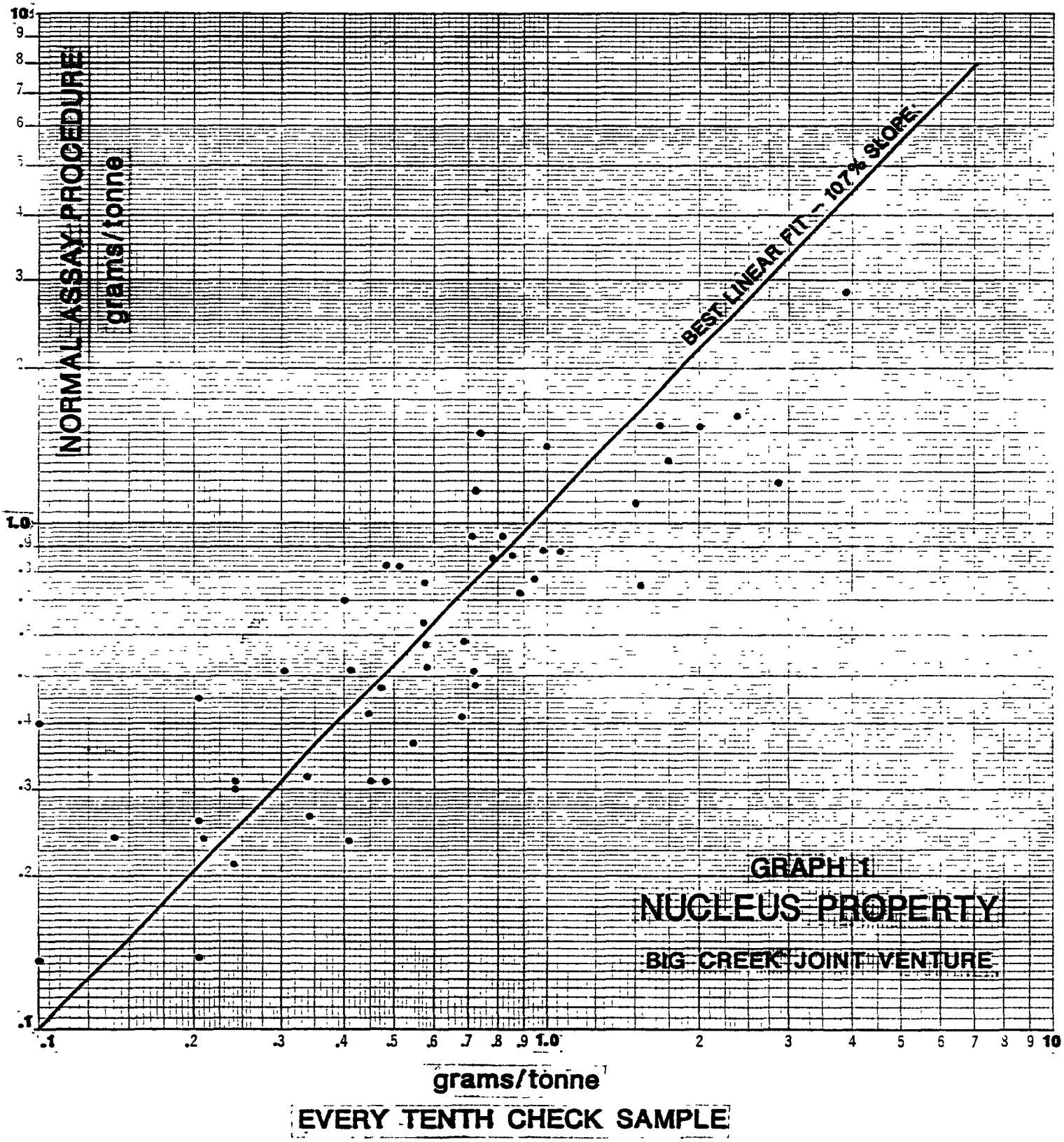
a) A cyclone sample collector automatically split off a 1/10th sample which was sent directly to Chemex Labs Ltd. in North Vancouver where each sample was multiply crushed, riffle split, pulverized to approximately -150 mesh and sieved through a -150 mesh screen. Oversize material was inspected for native gold and silver and then hand crushed to -150 mesh and homogenized with the rest of sample. A one assay ton of this material was

then analyzed by fire assay and atomic absorption finish. All assays are reported in Appendix Three.

b) The balance was taken to a field laboratory and split twice with a Jones splitter to generate four equivalent samples, each about 6 kg. These samples were treated as follows:

i) every tenth sample was sent for assay exactly as described above. Assays are shown in Appendix Three and on Graph 1 where the values are plotted on 2-cycle log/log graph paper against the assay value of the corresponding sample which had been split out of the cyclone. As both samples represent the same sample interval, their differing values are an indication of the variability of the mineralization and the confidence which can be placed in the data assuming the same sample preparation is maintained. The data has not been treated statistically as the number of data points is relatively small. However, it can be seen that the results form a roughly linear trend with slightly higher values from the cyclone split sample than the later Jones split sample. The linearity of the data implies that there can be general confidence in the average determined for a number of samples but that individual assays may vary;

ii) the remaining nine-tenths of the samples were stored separately so that selected samples can be retrieved and analyzed using a variety of different sample preparations (if desired) to determine the technique which would provide the optimum reproducibility; and,



Logarithmic, 2 x 2 Cycles

iii) a small amount of material from each sample was taken to provide material for chipboards, a visual logging system. One cup of material was sieved through a four mesh screen and the oversize was labelled and stored. Five cc. of the undersize was labelled and stored. The balance of fine material was panned and the heavy concentrate was labelled and stored. Due to budget constraints and a lack of time, the above materials were not assembled on the chipboards but this can be done at a later date.

GEOLOGY

The Nucleus property lies within the Dawson Range Gold Belt, a northwest-trending alignment of porphyry copper-molybdenum-gold deposits and associated gold and silver veins. The belt lies along the southwestern side of the Big Creek Lineament, a major northwest-trending fault and well defined physiographic feature. The Casino deposit, located 75 km to the northwest of the Nucleus property, forms the northwest extent of the belt and the Freegold Mountain deposits, 10 km to the southwest of Nucleus, form the southeastern extent. Porphyry deposits occur along the belt at about 10 to 12 km intervals.

The geology of the property is shown on Figure 22, which is a generalized compilation of property mapping, plus regional data published by the Geological Survey of Canada (Memoir 189 [1936] and O.F. 1101 [1984]) and the Department of Indian Affairs and Northern Development (O.F. 1987-2). Property geology is shown and discussed in greater detail in previous Nat JV reports.

In general, the property is underlain by Paleozoic(?) metasedimentary and metaplutonic rocks of the Yukon Cataclastic Complex consisting primarily of quartz-biotite-feldspar schist, chlorite schist and quartz-feldspar gneiss. These have been intruded by Early Cretaceous granodiorite and quartz-monzonite which are part of the Dawson Range Batholith. Cutting these rocks are leucocratic Mid-Cretaceous intermediate to felsic porphyry dykes of the Mount Nansen volcanic suite. A fault-bounded block of distinctive Mount Nansen crystal-lithic to ash tuff (the "Revenue Breccia") is preserved in the central part of the adjacent Revenue property. This unit is not seen on the Nucleus property although some brecciated Mount Nansen dykes are similar in appearance and may be related. Rock units on the Nucleus property are described in more detail as follows.

PLEISTOCENE

These deposits occur as overburden, rarely preserved above 825 m elevation:

White River volcanic ash - cream to pale grey, very fine-grained ash, with a gritty-greasy texture when wet.

"Black muck" - Pleistocene mammal-bearing organic deposits consisting of peat and silty black muck with a strong odor of decomposing vegetation.

Glaciofluvial deposits - range from well sorted and bedded silt to coarse sand-size deposits showing normal grading and crossbedding, to completely unsorted gravels and boulders in a mud and silt matrix.

MID-CRETACEOUS TO EARLY TERTIARY(?)

Mount Nansen Volcanic Suite

Lapilli tuff and ash ("Revenue Breccia") - is a tan and pale pink recessively weathering and poorly lithified grey volcaniclastic. It has angular to subrounded fragments that average 4 to 7 cm in diameter but range from less than one mm up to 30 cm. The clasts are poorly to moderately well sorted with an open matrix texture in the small lapilli to ash size fractions. The clasts consist of feldspar porphyry, with rare quartz monzonite. Strong clay alteration is always present.

Quartz-feldspar porphyry - is a pale grey to tan rock with a uniform texture containing 3 to 5% subrounded and angular quartz grains and 10 to 40% feldspar crystals in a tan, locally flow banded, aphanitic matrix. Composition ranges from quartz porphyry to feldspar porphyry to feldspar-biotite-hornblende porphyry. Argillic alteration is common and typically there is 1 to 7% disseminated limonite. This unit occurs as dykes, dyke swarms and small plugs which cut all rock types except the leucocratic quartz monzonite. The individual units are often too narrow to show on property scale maps.

Mixed intrusive unit - much of the Nucleus mineralization is hosted in leucocratic felsic rocks that have been variably fractured and brecciated, bleached and sericitized making identification of the original host rock difficult. Most of the surface exposures are also deeply weathered and oxidized, which masks the character of the hypogene mineralization. Consequently, the more altered and weathered rocks have been simply identified as "mixed intrusive unit", recognizing that at least some parts of the unit were originally part of the Yukon Cataclastic Complex (see below), hypabyssal intrusive and/or fragmental rocks of the Mount Nansen Suite, or heterolithic breccias containing clasts of both units.

Dawson Range Batholith

Biotite-hornblende-quartz monzonite - is mainly found east of Mechanic Creek. It is pale pink and equigranular with a medium-grained to porphyritic texture. Mafic mineral content varies from 0 to 10% hornblende and 0 to 8% biotite. It usually contains 20% quartz and 70% plagioclase and orthoclase feldspars, with some white feldspar crystals up to 2 cm in diameter encapsulating amphibole laths.

PALEOZOIC

Yukon Cataclastic Complex

Metasedimentary and metaplutonic rocks - This unit is highly variable and includes foliated hornblende-biotite granodiorite, hornblende-biotite-feldspar gneiss, biotite-quartz-feldspar schist, amphibolite, white and grey quartzite, quartz-feldspar mica schist, and quartz-feldspar gneiss. These rocks generally weather recessively and all mica and feldspar show intense chlorite and clay alteration. The more altered rocks of this unit have a distinctive texture

and composition which has previously caused them to be mapped as a separate unit called "Microgranite". Such rocks are highly felsic with 1 to 5% euhedral plagioclase phenocrysts within an anhedral quartz-feldspar-sericite matrix. They commonly have a distinctive foliation.

ALTERATION

Alteration is widespread in the eastern part of the property, particularly on the west side of Mechanic Creek. Generally, the intensity of alteration is directly related to the degree of fracturing and brecciation which are best developed in broad stockwork zones and well defined fault structures. Strongly fractured and brecciated areas are commonly accompanied by porphyry dykes. Hairline quartz veins up to 3 cm wide often fill fractures. Rocks adjacent to the quartz veins exhibit pervasive sericite and clay alteration which destroys primary textures. The most intense alteration occurs along the strongest structures. The best gold values are generally found in silicified zones, particularly where chalcedonic quartz veins are present.

MINERALIZATION

Two main types of mineralization are found on the Nucleus property, as described below.

1. Porphyry Copper-Molybdenum (Gold) Mineralization

On the adjacent Revenue property, minor gold is found associated with low grade copper and molybdenum mineralization in hydrothermal systems with typical porphyry copper alteration. This type of mineralization has also been recognized in the Anomaly 2 Zone on the Nucleus property where hole 84-1 penetrated more than 60 m (200 feet) below surface and encountered the top of a supergene sulphide zone containing chalcocite and covellite with copper values commonly exceeding 0.2% Cu, and ranging up to 0.47% over 1.52 m. Two rotary holes drilled in 1970 by Kaiser in the Anomaly 2 Zone had the following composite values: PDH70-8 - 0.35 g/t Au, 0.03% Cu over 67.1 m; and, PDH70-9 - 0.24 g/t Au, 0.05% Cu over 91.5 m, which suggests a strong relationship between gold and copper. Similarly, two Kaiser diamond drill holes (DDH70-5 and DDH70-6) located over 500 m east of the Anomalous 2 Zone intersected chalcopyrite along with pyrite and pyrrhotite in veinlets and disseminations. The best copper mineralization (up to 5% chalcopyrite) occurs in a 1.3 m wide quartz flooded breccia that carries 3.58 g/t gold. Deeper drilling of the Nucleus Anomaly 1 and 2 Zones is required to determine if a porphyry copper system occurs deeper in the system.

2. Disseminated Gold Mineralization

This type of gold mineralization is associated with strong argillic alteration along major northwest-trending structures. Gold values are concentrated near the core of the structures with alteration extending up to 100 m on either side. The best examples are the Anomaly 2, Anomaly 1 and Vest Pocket Zones.

The highest grade gold mineralization is found in the Anomaly 2 Zone and is related to a series of narrow (up to 1.0 m wide) subparallel chalcedonic veins and stockworks that occur within or beside brecciated and argillically altered north-northwest trending porphyry dykes. The mineralized structures and adjacent altered wallrocks form a 150 m wide band that has been traced for 300 m and is still open along strike. Prior to 1988, the best assay from the property was taken from a 3.5 m wide porphyry dyke in trench TR83N-1, which assayed 44.71 g/t (1.304 opt gold).

Sulphide mineralization is rare at surface but gold values are often related to zones with high limonite contents, suggesting a correlation between gold and sulphides. The rocks commonly contain 3 to 5% limonite, usually yellow-brown varieties after pyrite, with some yellow to yellow-green varieties, probably after arsenopyrite, in some porphyry dykes. Drilling shows that surface oxidation extends from 15 to 75 m below surface and below the oxide zone chalcedonic quartz veins exhibit fine-grained pyrite and arsenopyrite with rare sphalerite, galena, chalcopyrite and magnetite.

MINERAL INVENTORY

A. 1984 Reserve Calculation

On the present Nucleus property, there have only been three diamond drill holes (totalling 315.1 m) which intersected the Nucleus mineralization and could be used for ore reserve calculations. These holes were drilled in the Anomaly 2 Zone in 1984 and assays from these holes agreed generally with corresponding assays from surface trenches. The position of the holes is shown on Figures 22 and 25.

In 1984, a mineral inventory was calculated using trench results from the Anomaly 1 and 2 Zones extrapolated to a depth of 60 m. Three diamond drill zones in the Anomaly 2 Zone were not used in the calculation but confirmed that similar grade, oxidized material does extend to at least 60 m below surface. The following parameters were used to make the calculations:

a) all values were cut to 6.86 g/t (0.2 opt) gold;

b) specific gravity was assumed to be 2.49 (13 cu.ft./ton);

c) a minimum cutoff grade of 0.35 g/t (0.01 opt) gold was used;

d) only areas between surface assays were included in the reserve (i.e. none of the ore cells were projected along strike beyond the last trench containing mineralization at each end of each zone); and,

e) a minimum mining width of 6 m.

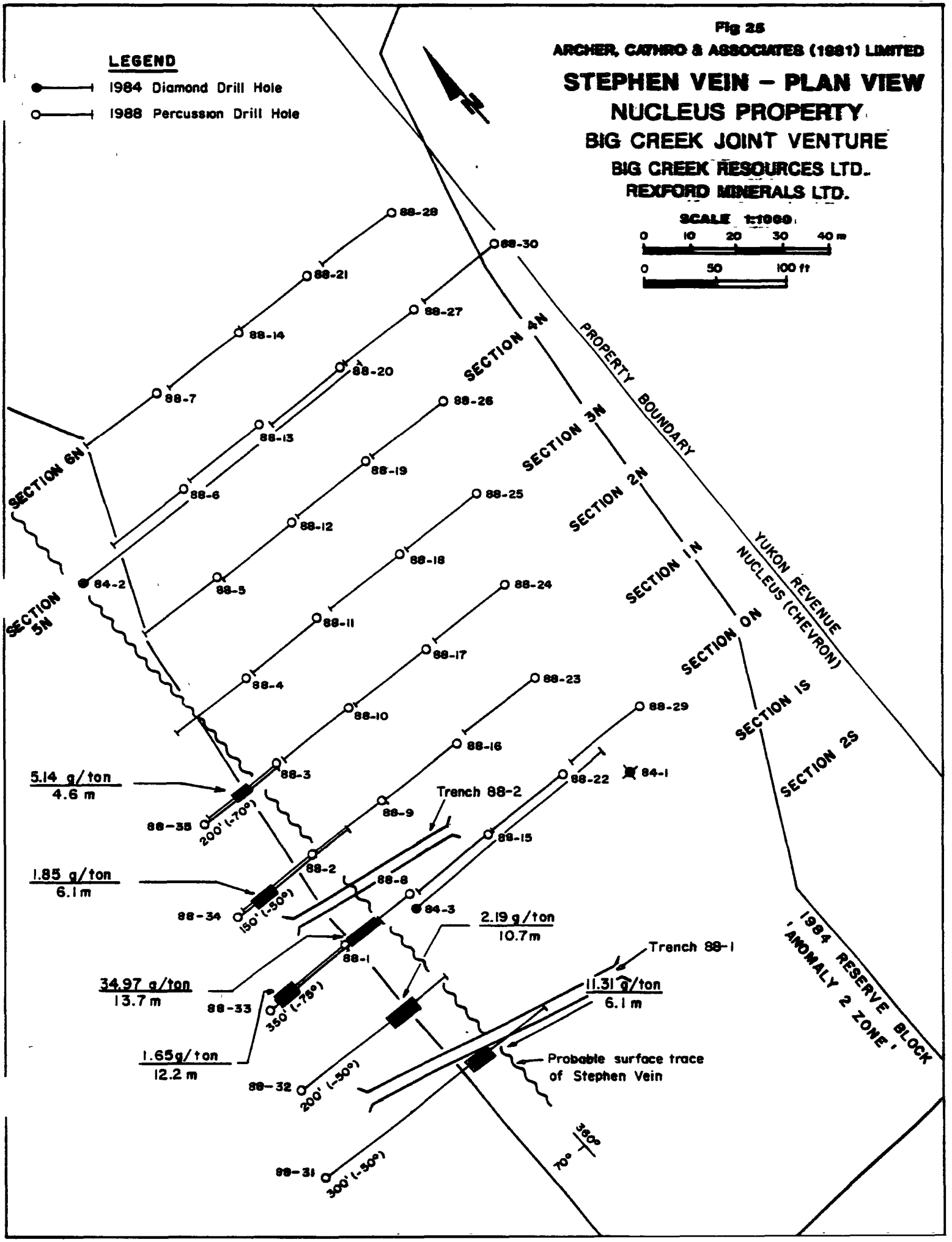


Fig 25
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
STEPHEN VEIN – PLAN VIEW
NUCLEUS PROPERTY
BIG CREEK JOINT VENTURE
BIG CREEK RESOURCES LTD.
REXFORD MINERALS LTD.
SCALE 1:1000
0 10 20 30 40 m
0 50 100 ft
LEGEND
1984 Diamond Drill Hole
1988 Percussion Drill Hole
88-28
88-30
88-21
88-27
88-14
88-20
88-7
88-26
88-13
88-19
88-6
88-25
88-12
88-18
84-2
88-5
88-24
88-11
88-17
88-4
88-23
88-10
88-29
88-16
88-3
84-1
88-22
88-9
88-15
88-2
88-8
84-3
88-1
88-33
88-32
88-31
SECTION 6N
SECTION 5N
SECTION 4N
SECTION 3N
SECTION 2N
SECTION 1N
SECTION 0N
SECTION 1S
SECTION 2S
PROPERTY BOUNDARY
YUKON REVENUE
NUCLEUS (CHEVRON)
1984 RESERVE BLOCK
'ANOMALY 2 ZONE'
5.14 g/ton
4.6 m
88-35
200' (-70°)
1.85 g/ton
6.1 m
88-34
150' (-50°)
2.19 g/ton
10.7m
Trench 88-2
Trench 88-1
34.97 g/ton
13.7 m
350' (-75°)
11.31 g/ton
6.1 m
1.65g/ton
12.2 m
200' (-50°)
Probable surface trace
of Stephen Vein
300' (-50°)
380
70°

The following reserves are indicated (using different cutoffs).

Anomaly 1 Zone

Grade - Gold		Tonnage		Gold Content	
g/t	(opt)	tonnes	(tons)	grams	(ounces)
0.93	0.027	641,200	700,000	615,540	19,600
1.03	0.030	512,960	560,000	545,190	17,360
1.23	0.036	384,720	420,000	501,225	15,960
1.44	0.042	320,600	350,000	450,660	14,350

Anomaly 2 Zone

Grade - Gold		Tonnage		Gold Content	
g/t	(opt)	tonnes	(tons)	grams	(ounces)
0.93	0.027	4,506,720	4,920,000	4,171,800	132,840
1.03	0.030	3,664,000	4,000,000	3,768,600	120,000
1.23	0.036	2,482,350	2,710,000	3,063,900	97,560
1.44	0.042	1,941,900	2,120,000	2,796,300	89,040

B. 1988 Drill Results

The central part of the Anomaly 2 Zone was considered to have the greatest potential to contain a small reserve of easily mineable material that could be used for a test heap leach pad. This type of test would be needed to provide realistic estimates of mining costs, reagent consumption, and recovery rates, and to identify problems requiring additional study prior to full-scale production.

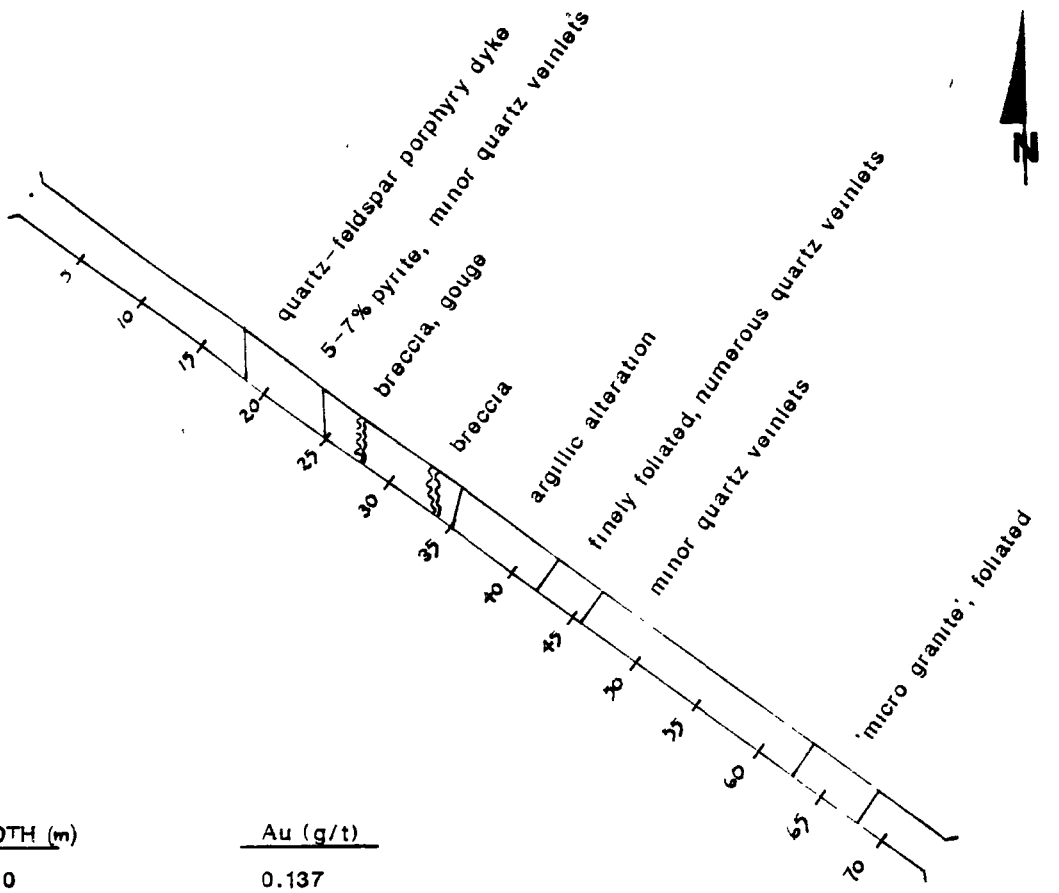
The first phase of the 1988 drill program consisted of thirty holes, totalling 946 m, located at 20 m intervals along section lines spaced 20 m apart. All holes dip -50° with an azimuth of 270°, which is approximately perpendicular to the trend of the north-northwesterly striking, steeply-dipping veins and dykes that contain most of the gold mineralization.

Most 1988 drill holes intersected weak to modest grade mineralization comparable to that in the trenches.

Significantly higher than average assay results were received from two of the holes (88-8 and 88-3) suggesting the presence of a previously unknown structure (tentatively called the "Stephen Vein") which was interpreted to trend about 330° and probably dip to the west, as shown on Figure 25. The best assays were from hole 88-8 which averaged 35.72 g/t gold over 13.72 m (1.03 opt over 45 feet) with individual assays as follows:

Interval		Total		Assay	
From (ft)	To (ft)	m	(ft)	g/t	(opt)
55	60	1.52	5	29.07	.848
60	65	1.52	5	59.48	1.735
65	70	1.52	5	95.52	2.786
70	75	1.52	5	43.95	1.282
75	80	1.52	5	32.57	.950
80	85	1.52	5	23.49	.685
85	90	1.52	5	18.14	.529
90	95	1.52	5	8.81	.257
95	100	1.52	5	6.10	.178

A second phase of drilling was designed to confirm the presence of the structure and determine its orientation. The program consisted of five rotary holes, totaling 366 m, as shown on Figures 25 to 30. These were located along the previously established section lines but were sited west of the projected trace of the vein and oriented with -50° dips and azimuth of 090°. The holes did not confirm the presence of a consistent, well mineralized structure. Hole 88-3, which should have cut the zone about 20 m below the intersection in hole 88-8, was unmineralized and two excavator trenches cut across the projected surface trace of the vein (as shown on Figures 23 and 24) exposed a number of fractured and altered zones but none of these were mineralized nor had the appearance of a well defined structure. The provenance of the high grade material in hole 88-8 is still unknown and, if the Stephen Vein or some other mineralized structure or stockwork zone actually exists, its orientation must



WIDTH (m)	Au (g/t)
5-10	0.137
10-15	0.206
15-20	0.240
20-25	0.343
25-30	0.549
30-35	0.103
35-40	0.069
40-45	0.069
45-50	0.411
50-55	0.514
55-60	1.063
60-65	0.960
65-70	0.686

YUKON GROUP

quartz-mica schists to more massive laminated varieties. moderately fractured common limonite staining.

Figure 23

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TRENCH 88-1

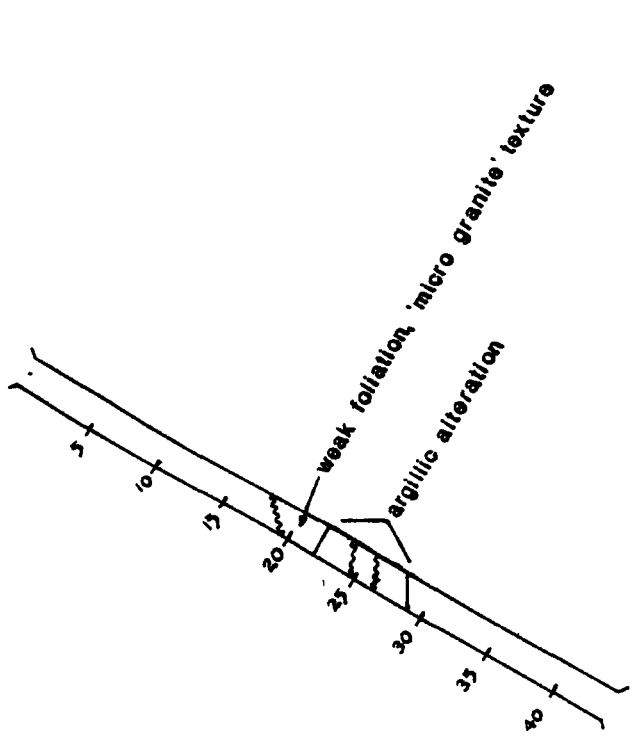
NUCLEUS PROPERTY

BIG CREEK AREA, Y.T.

BIG CREEK RESOURCES LTD.
REXFORD MINERALS LTD.

Scale 1:500

10 0 10 20 m



WIDTH(m)	Au(g/t)
5–10	0.309
10–15	0.514
15–20	0.343
20–25	0.069
25–30	0.206
30–35	0.137

YUKON GROUP

quartz–mica schists to more massive laminated varieties. moderately fractured common limonite staining.

Figure 24

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

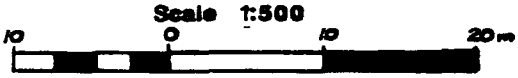
TRENCH 88–2

NUCLEUS PROPERTY

BIG CREEK AREA, Y.T.

BIG CREEK RESOURCES LTD.
REXFORD MINERALS LTD.

Scale 1:500



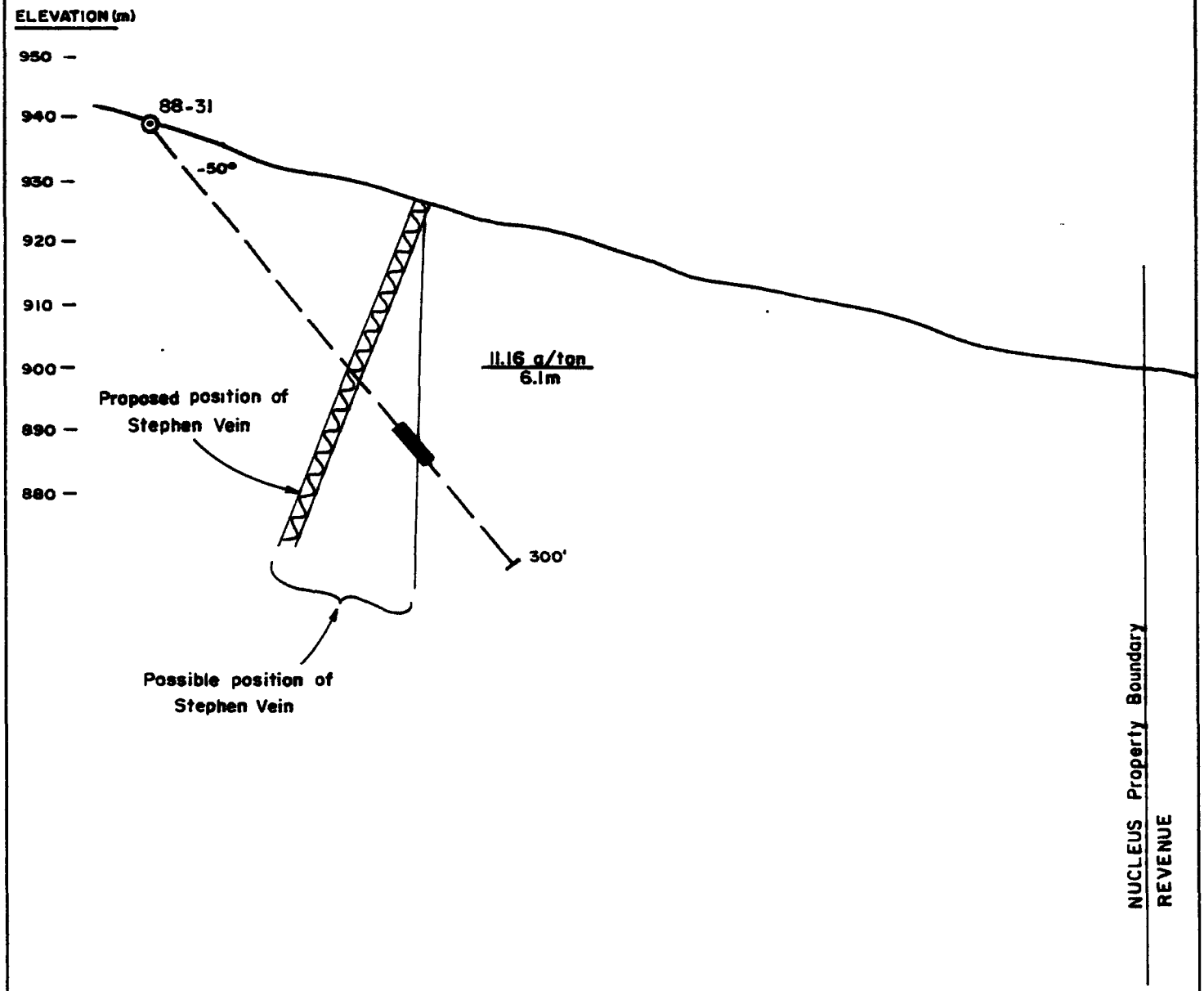


Figure 26

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

STEPHEN VEIN - 2 SOUTH

NUCLEUS PROPERTY

BIG CREEK JOINT VENTURE

BIG CREEK RESOURCES LTD.

REXFORD MINERALS LTD.

SCALE 1:1000

0 10 20 30 40 m

0 50 100 ft

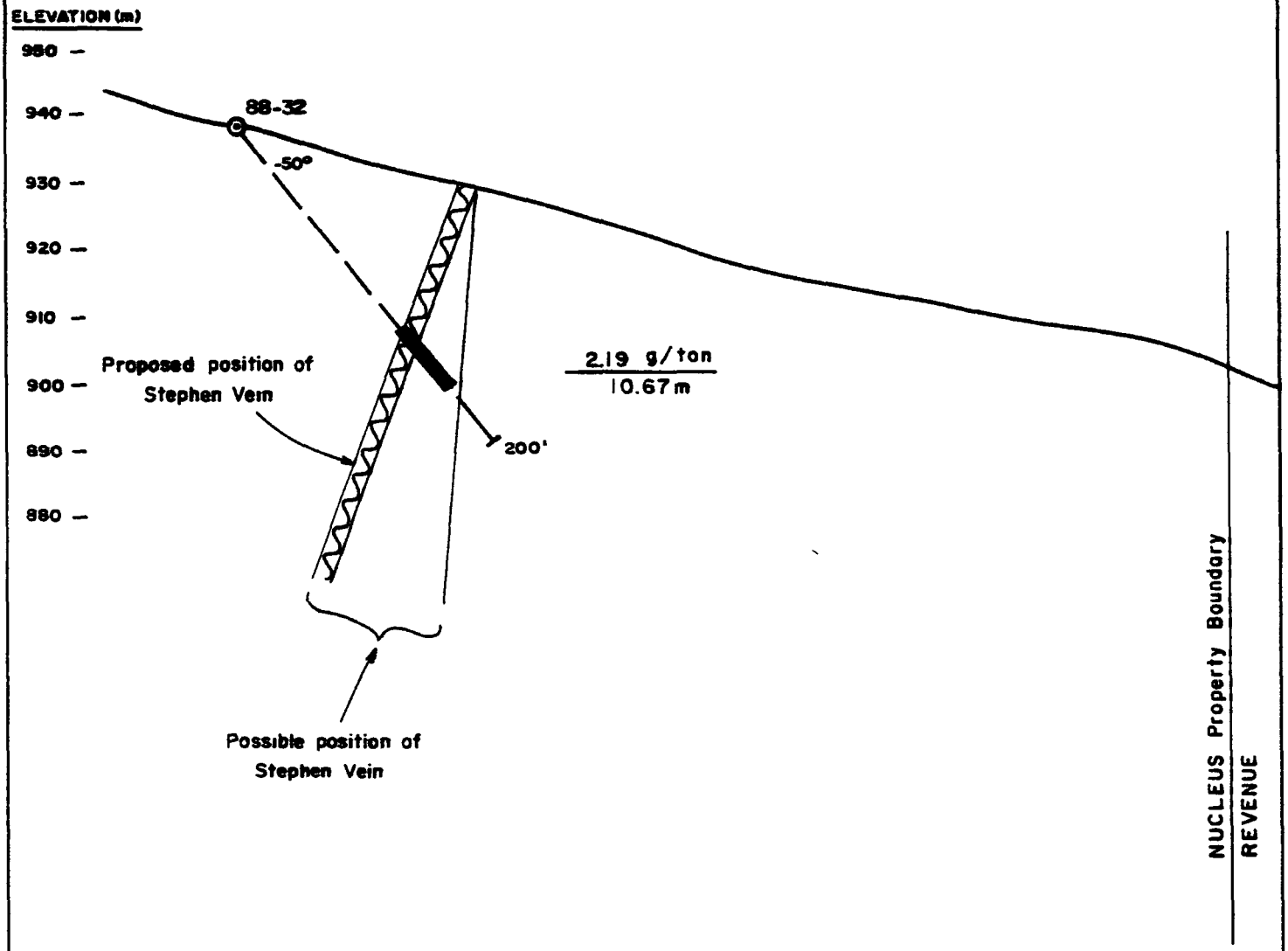


Figure 27

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

STEPHEN VEIN - 1 SOUTH

NUCLEUS PROPERTY

BIG CREEK JOINT VENTURE

BIG CREEK RESOURCES LTD.

REXFORD MINERALS LTD.

SCALE 1:1000

0 10 20 30 40 m

0 50 100 ft

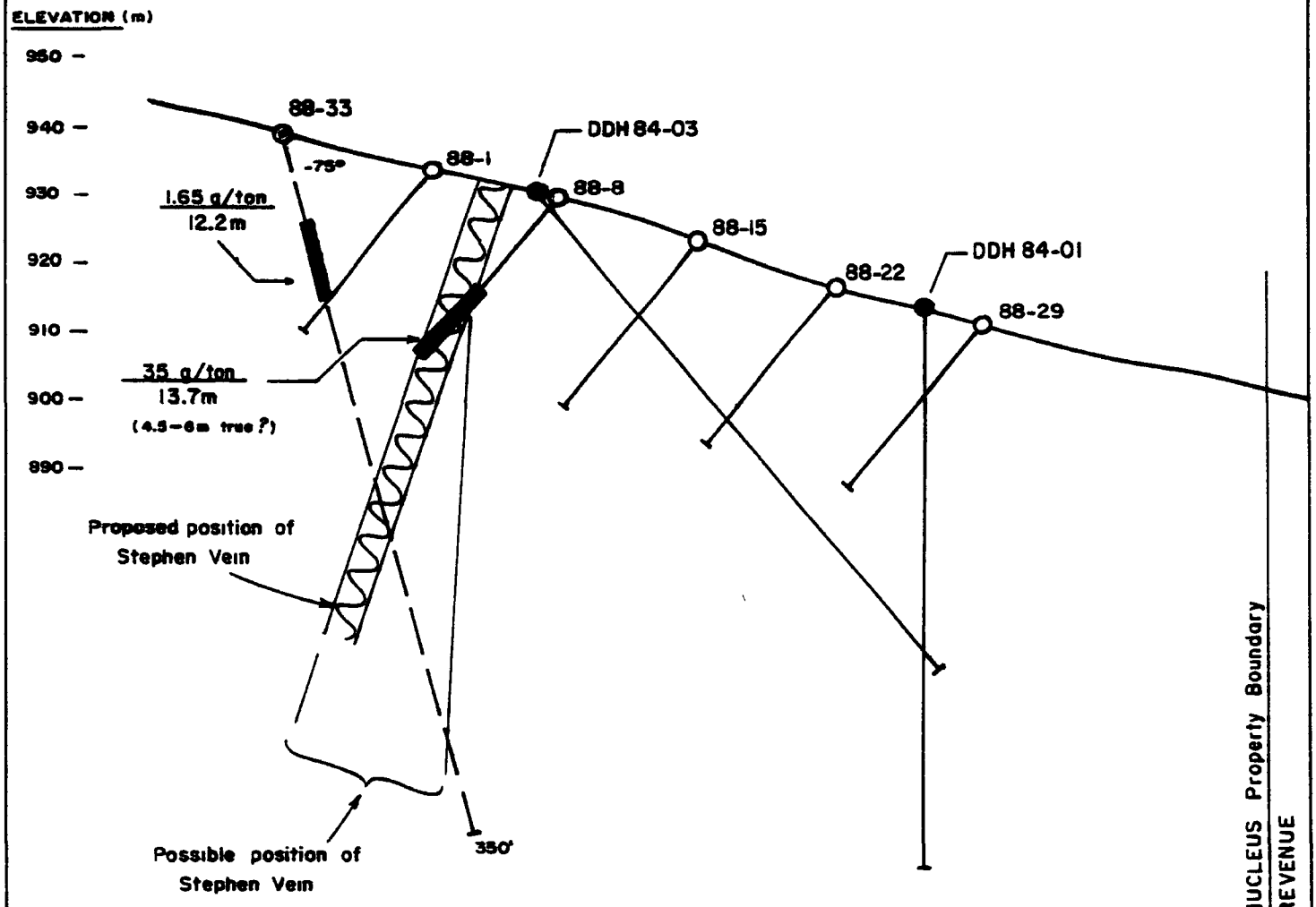


Figure 28

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

STEPHEN VEIN - 0 NORTH

NUCLEUS PROPERTY

BIG CREEK JOINT VENTURE

BIG CREEK RESOURCES LTD.

REXFORD MINERALS LTD.

SCALE 1:1000

0 10 20 30 40m

0 50 100ft

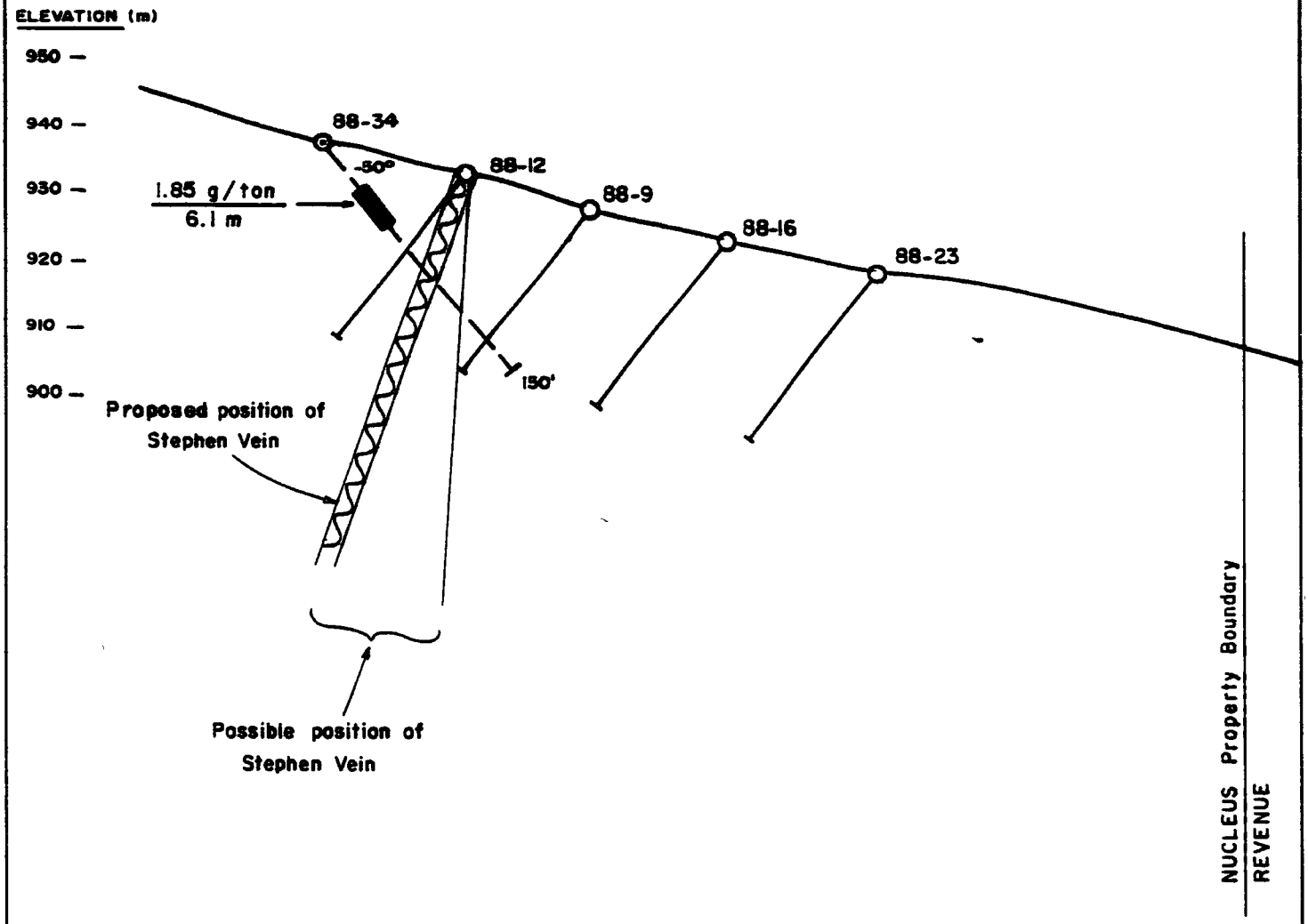


Figure 29

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

STEPHEN VEIN - 1 NORTH

NUCLEUS PROPERTY

BIG CREEK JOINT VENTURE

BIG CREEK RESOURCES LTD.

REXFORD MINERALS LTD.

SCALE 1:1000

0 10 20 30 40m

0 50 100ft

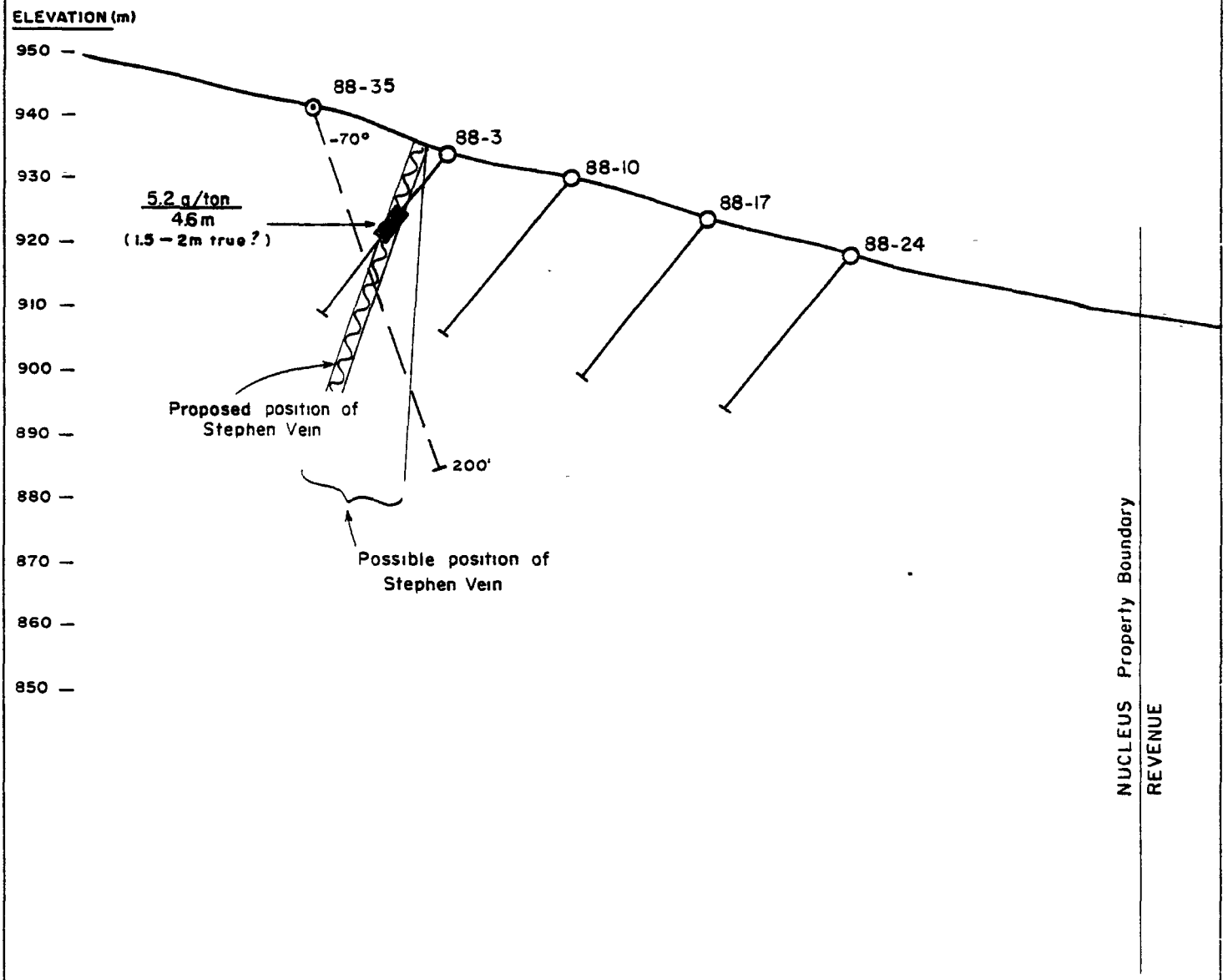


Figure 30

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

STEPHEN VEIN – 2 NORTH

NUCLEUS PROPERTY

BIG CREEK JOINT VENTURE

BIG CREEK RESOURCES LTD.

REXFORD MINERALS LTD.

SCALE 1:1000

0 10 20 30 40m

0 50 100ft

be complex. To further complicate problems, two of the five holes drilled to test the vein (hole 88-31 and 88-30 at the south end of the grid) did intersect mineralization and returned assays exceeding 6.0 g/t gold, suggesting that a structure may be present but the distribution of mineralization is extremely erratic.

C. 1988 Reserve Calculation for the High Grade Portion of Anomaly 2 Zone

Results of all trenches and 1988 drilling were used to calculate ore reserves for the higher than average grade portion of the Anomaly 2 Zone, using the techniques and parameters described in the following paragraphs. The mineralization appears to be erratically distributed and there is no obvious preferred orientation. For the purposes of reserve calculation, the entire drilled off volume (including the Stephen Vein) is treated as an isometric mass consisting of numerous individual cells. Each cell is a rectangular solid that has a length extending from each section line half the distance to the adjacent section lines, a height of 7 m to correspond with a series of horizontal benches and a width extending from each data point in the section halfway to each adjacent data point. The grade of each cell is calculated as the average of all drill piercements or surface trench assays included in the cell weighted by the linear interval of sampling. The proposed open pit containing the reserves has the same shape for material with minimum cutoff grades of 0.5, 0.7 or 1.0 g/t gold. The pit shape is designed with benches and berms of 7 m and an overall pit slope of 45°. The entire pit is within the oxidized zone and the density of all material was assumed to be 2.5.

The following pages contain these tables.

a) Table 1 is a summary of reserves derived from the other tables listed;

b) Tables 2 to 10 show the derivation of the grade for each cell; and,

TABLE 1
DRILL INDICATED, OPEN PITTABLE RESERVES
NUCLEUS DEPOSIT - FEBRUARY, 1989

	WASTE tonnes (tons)	"ORE" tonnes (tons)	GRADE g/t (opt)	CUMULATIVE Gold - gm (ozs)	WASTE/ ORE RATIO	CUT GRADE g/t (opt)	CUT CUMULATIVE GOLD - gm (ozs)
Using no cutoff (all cells):							
OXIDE	0	1,194,330	.91	1,086,840	.00	.73	871,861
	0	1,303,854	.027	34,607		.021	27,762
Using a 0.5 g/t (0.015 opt) gold cutoff:							
OXIDE	648,175	537,530	1.68	903,050	1.21	1.28	688,038
	707,615	586,823	.049	28,755		.037	21,909
Using a 0.7 g/t (0.020 opt) gold cutoff:							
OXIDE	809,350	376,355	2.14	805,400	2.15	1.57	590,877
	883,570	410,868	.062	25,646		.046	18,815
Using a 1.0 g/t (0.030 opt) gold cutoff:							
OXIDE	973,780	211,925	3.16	669,683	4.59	2.15	455,639
	1,063,079	231,359	.092	21,324		.063	14,508

TABLE 2
1988 DRILL PROGRAM

NUCLEUS RESERVE CALCULATIONS
SECTION 2S

Cell	Thick.	Depth	Length	Volume	Tonnes	Wt. Ave.	T.xAve.
953A	20.00	7.00	21.00	2940.00	7350.00	.27	1984.50
928A	20.00	7.00	38.00	5320.00	13300.00	.23	3085.60
921A	20.00	7.00	59.00	8260.00	20650.00	.24	4956.00
914A	20.00	7.00	67.00	9380.00	23450.00	.06	1446.08
907A	20.00	7.00	83.00	11620.00	29050.00	.09	2662.92
900A	20.00	7.00	80.00	11200.00	28000.00	.25	7046.67
893A	20.00	7.00	65.00	9100.00	22750.00	.46	10502.92
886A	20.00	7.00	52.00	7280.00	18200.00	3.79	69069.00
879A	20.00	7.00	40.00	5600.00	14000.00	4.29	60083.33

Intercepts

Hole No.	From	To	Interval	Grade	Wt.Ave.
88-31	0.00	3.05	3.05	.27	.82
88-31	3.05	4.57	1.52	.24	.37
		6.09	1.52	.48	.73
		7.62	1.52	.17	.26
		9.14	1.52	.10	.15
		10.67	1.52	.17	.26
			7.62		1.77
88-31	10.66	12.18	1.52	.86	1.31
		13.71	1.52	.51	.78
		15.23	1.52	.07	.11
		16.76	1.52	.07	.11
		18.28	1.52	.07	.11
		19.80	1.52	.03	.05
		21.33	1.52	.07	.11
			10.67		2.56
88-31	21.32	22.84	1.52	.07	.11
		24.37	1.52	.03	.05
		25.89	1.52	.14	.21
		27.42	1.52	.03	.05
		28.94	1.52	.03	.05
		30.46	1.52	.07	.11
			9.14		.56
88-31	30.46	31.98	1.52	.10	.15
		33.51	1.52	.17	.26
		35.03	1.52	.07	.11
		36.55	1.52	.07	.11
		38.08	1.52	.07	.11
		39.60	1.52	.07	.11
			9.14		.84
88-31	39.60	41.12	1.52	.07	11
		42.64	1.52	.07	.11
		44.17	1.52	.38	.58
		45.69	1.52	.34	.52
		47.22	1.52	.24	.37
		48.74	1.52	.41	.62
			9.14		2.30
88-31	48.74	50.26	1.52	.41	.62
		51.78	1.52	.41	.62
		53.31	1.52	.89	1.36
		54.83	1.52	.17	.26
		56.35	1.52	.89	1.36
		57.88	1.52	---------	.00
			9.14		4.22
88-31	57.87	59.40	1.52	.10	.15
		60.92	1.52	.07	.11
		62.44	1.52	.38	.58
		63.97	1.52	.10	.15
		65.49	1.52	17.56	26 76
		67.02	1.52	4.56	6.95
			9.14		34.70
88-31	67.01	68.53	1.52	.86	1 31
		70.06	1.52	21.67	33.03
		71.58	1.52	.55	.84
		73.11	1.52	.75	1.14
		74.63	1.52	.79	1.20
		76.15	1.52	1.13	1.72
			9.14		39.24

TABLE 3
1988 DRILL PROGRAM

NUCLEUS RESERVE CALCULATIONS
SECTION 1S

Cell	Thick.	Depth	Length	Volume	Tonnes	Wt. Ave.	T.xAve.
935A	20.00	7.00	21.50	3010.00	7525.00	.41	3085.25
928A	20.00	7.00	35.00	4900.00	12250.00	.28	3430.00
921A	20.00	7.00	56.00	7840.00	19600.00	.08	1568.00
914A	20.00	7.00	74.50	10430.00	26075.00	.24	6214.54
907A	20.00	7.00	67.00	9380.00	23450.00	.37	8715.58
900A	20.00	7.00	53.00	7420.00	18550.00	2.24	41490.17
893A	20.00	7.00	40.00	5600.00	14000.00	.93	13020.00

Intercepts

Hole No.	From	To	Interval	Grade	Wt.Ave.
88-32	0.00	3.05	3.05	.41	1.25
88-32	3.05	4.57	1.52	.65	.99
		6.09	1.52	.34	.52
		7.62	1.52	.21	.32
		9.14	1.52	.24	.37
		10.67	1.52	.10	.15
		12.19	1.52	.14	.21
			9.14		2.56
88-32	12.18	13.71	1.52	.07	.11
		15.23	1.52	.17	.26
		16.75	1.52	.07	.11
		18.28	1.52	.07	.11
		19.80	1.52	.07	.11
		21.33	1.52	.03	.05
			9.14		.73
88-32	21.32	22.84	1.52	.07	.11
		24.37	1.52	.03	.05
		25.89	1.52	.51	.78
		27.42	1.52	.27	.41
		28.94	1.52	.34	.52
		30.46	1.52	.21	.32
			9.14		2.18
88-32	30.46	31.98	1.52	.07	.11
		33.51	1.52	.14	.21
		35.03	1.52	.34	.52
		36.55	1.52	.82	1.25
		38.08	1.52	.21	.32
		39.60	1.52	.65	.99
			9.14		3.40
88-32	39.60	41.12	1.52	2.64	4.02
		42.64	1.52	4.53	6.90
		44.17	1.52	1.17	1.79
		45.69	1.52	.55	.84
		47.22	1.52	1.89	2.88
		48.74	1.52	2.64	4.02
			9.14		20.15
88-32	48.74	50.26	1.52	2.02	3.08
		51.78	1.52	.58	.88
		53.31	1.52	.55	.84
		54.83	1.52	.62	.94
		56.35	1.52	1.30	1.98
		57.88	1.52	1.06	1.62
		59.40	1.52	.38	.58
			10.67		9.92

1988 DRILL PROGRAM

NUCLEUS RESERVE CALCULATIONS
SECTION ON

Cell	Thick.	Depth	Length	Volume	Tonnes	Wt. Ave.	T.xAve.	Intercepts Hole No.	From	To	Interval	Grade	Wt.Ave.
935A	20.00	7.00	21.00	2940.00	7350.00	.17	1249.50	88-33	0.00	3.05	3.05	.17	.52
								88-33	3.05	4.57	1.52	.38	.58
										6.09	1.52	.31	.47
										7.62	1.52	———	.00
										9.14	1.52	———	.00
928A	20.00	7.00	32.00	4480.00	11200.00	.19	2083.20			10.67	1.52	.24	.37
											7.62		1.42
								88-1	0.00	3.05	3.05	.14	.43
928B	20.00	7.00	16.50	2310.00	5775.00	.25	1462.71			4.57	1.52	.48	.73
											4.57		1.16
								88-33	10.66	12.18	1.52	.34	.52
										13.71	1.52	.79	1.20
										15.23	1.52	1.78	2.71
										16.76	1.52	5.04	7.68
921A	20.00	7.00	24.50	3430.00	8575.00	1.81	15520.75			18.28	1.52	1.10	1.68
											7.62		13.79
								88-1	4.56	6.09	1.52	.45	.69
										7.61	1.52	.48	.73
										9.14	1.52	.27	.41
										10.66	1.52	.10	.15
										12.19	1.52	.21	.32
921B	20.00	7.00	15.50	2170.00	5425.00	.33	1772.17			13.71	1.52	.45	.69
											9.14		2.99
								88-8	0.00	3.05	3.05	.17	.52
										4.57	1.52	.34	.52
										6.10	1.52	.10	.15
										7.62	1.52	.27	.41
										9.15	1.52	.03	.05
921C	20.00	7.00	25.00	3500.00	8750.00	.26	2249.86			10.67	1.52	.72	1.10
											10.67		2.74
								88-33	18.28	19.80	1.52	.62	.94
										21.32	1.52	.51	.78
										22.85	1.52	2.09	3.19
										24.37	1.52	1.03	1.57
										25.89	1.52	1.10	1.68
								88-1	13.71	15.23	1.52	.17	.26
										16.75	1.52	.07	.11
										18.28	1.52	.07	.11
										19.80	1.52	.07	.11
										21.33	1.52	.10	.15
										22.85	1.52	.03	.05
914A	20.00	7.00	26.50	3710.00	9275.00	.53	4941.05				16.76		8.93
								88-8	10.66	12.18	1.52	.51	.78
										13.71	1.52	.10	.15
										15.23	1.52	.07	.11
										16.76	1.52	.75	1.14
										18.28	1.52	29.07	44.30
914B	20.00	7.00	23.00	3220.00	8050.00	6.10	49105.00				7.62		46.48
								88-15	0.00	3.05	3.05	2.09	6.37
										4.57	1.52	3.02	4.60
										6.10	1.52	.86	1.31
										7.62	1.52	.62	.94
										9.15	1.52	1.92	2.93
										10.67	1.52	.82	1.25
914C	20.00	7.00	23.50	3290.00	8225.00	1.63	13419.21				10.67		17.41
914D	20.00	6.00	13.50	1620.00	4050.00	.89	3604.50	88-22	0.00	3.05	3.05	.89	2.71

907A	20.00	7.00	17.00	2380.00	5950.00	.25	1513.94
907B	20.00	7.00	21.00	2940.00	7350.00	39.79	292456.5
907C	20.00	7.00	26.00	3640.00	9100.00	.53	4777.50
907D	20.00	7.00	23.50	3290.00	8225.00	.93	7621.83
907E	20.00	7.00	19.00	2660.00	6650.00	.35	2350.03
900A	20.00	7.00	21.00	2940.00	7350.00	.44	3219.30
900B	20.00	7.00	30.00	4200.00	10500.00	.48	4987.50
900C	20.00	7.00	26.50	3710.00	9275.00	.37	3385.38
900D	20.00	7.00	30.50	4270.00	10675.00	.62	6582.92
893B	20.00	7.00	39.50	5530.00	13825.00	.56	7672.88
893C	20.00	7.00	30.50	4270.00	10675.00	.46	4928.29
886B	20.00	7.00	53.00	7420.00	18550.00	1.60	29642.90

88-1	22.84	24.37	1.52	.07	.11
		25.89	1.52	.03	.05
		27.42	1.52	.75	1.14
		28.94	1.52	.17	.26
		30.46	1.52	.10	.15
88-33	25.89	27.41	1.52	.17	.26
		28.94	1.52	.21	.32
		30.46	1.52	.65	.99
		31.99	1.52	.14	.21
			13.72		3.49
88-8	18.28	19.80	1.52	59.48	90.65
		21.32	1.52	95.52	145.57
		22.85	1.52	43.95	66.98
		24.37	1.52	29.14	44.41
		25.89	1.52	23.49	35.80
		27.42	1.52	18.14	27.65
		28.94	1.52	8.81	13.43
			10.67		424.48
88-15	10.66	12.18	1.52	.99	1.51
		13.71	1.52	.45	.69
		15.23	1.52	.51	.78
		16.76	1.52	.55	.84
		18.28	1.52	.31	.47
		19.80	1.52	.34	.52
			9.14		4.80
88-22	3.05	4.57	1.52	1.13	1.72
		6.09	1.52	1.82	2.77
		7.62	1.52	.21	.32
		9.14	1.52	.45	.69
		10.67	1.52	1.23	1.87
		12.19	1.52	.72	1.10
			9.14		8.47
88-29	0.00	3.05	3.05	.48	1.46
		4.57	1.52	.10	.15
			4.57		1.62
88-33	31.98	33.51	1.52	.14	.21
		35.03	1.52	.03	.05
		36.55	1.52	1.75	2.67
		38.08	1.52	.17	.26
		39.60	1.52	.10	.15
			7.62		3.34
88-15	19.80	21.32	1.52	.38	.58
		22.85	1.52	1.23	1.87
		24.37	1.52	.21	.32
		25.89	1.52	.17	.26
		27.42	1.52	.65	.99
		28.94	1.52	.21	.32
			9.14		4.24
88-22	12.18	13.71	1.52	.07	.11
		15.23	1.52	.41	.62
		16.75	1.52	.41	.62
		18.28	1.52	.51	.78
		19.80	1.52	.48	.73
		21.33	1.52	.31	.47
			9.14		3.34
88-29	4.57	6.09	1.52	.07	.11
		7.61	1.52	.34	.52
		9.14	1.52	1.03	1.57
		10.66	1.52	1.51	2.30
		12.19	1.52	.34	.52
		13.71	1.52	.41	.62
			9.14		5.64
88-22	21.32	22.84	1.52	.14	.21
		24.37	1.52	.48	.73
		25.89	1.52	.45	.69
		27.42	1.52	1.44	2.19
		28.94	1.52	.34	.52
		30.46	1.52	.48	.73
			9.14		5.07
88-29	13.71	15.23	1.52	.38	.58
		16.75	1.52	.48	.73
		18.28	1.52	.75	1.14
		19.80	1.52	.75	1.14
		21.33	1.52	.41	.62
		22.85	1.52	----------	.00
			9.14		4.22
88-29	22.84	24.37	1.52	4.11	6.26
		25.89	1.52	1.47	2.24
		27.42	1.52	.45	.69
		28.94	1.52	1.51	2.30
		30.46	1.52	.45	.69
			7.62		12.18

TABLE 5
1988 DRILL PROGRAM

NUCLEUS RESERVE CALCULATIONS
SECTION 1N

Cell	Thick.	Depth	Length	Volume	Tonnes	Wt. Ave.	T.xAve.
928A	20.00	7.00	19.00	2660.00	6650.00	.43	2837.80
928B	20.00	5.50	11.00	1210.00	3025.00	.45	1361.25
921A	20.00	7.00	23.50	3290.00	8225.00	.79	6525.17
921B	20.00	7.00	26.00	3640.00	9100.00	.82	7462.72
914A	20.00	7.00	13.00	1820.00	4550.00	.38	1740.38
914B	20.00	7.00	23.00	3220.00	8050.00	.33	2643.08
914C	20.00	7.00	22.00	3080.00	7700.00	.34	2605.12
914D	20.00	7.00	18.50	2590.00	6475.00	.39	2525.02

Intercepts

Hole No.	From	To	Interval	Grade	Wt.Ave.
88-34	0.00	3.05	3.05	.75	2.29
		4.57	1.52	.27	.41
		6.10	1.52	.24	.37
		7.62	1.52	.21	.32
		9.15	1.52	.34	.52
			9.15		3.90
88-2	0.00	3.05	3.05	.45	1.37
88-34	9.14	10.66	1.52	1.37	2.09
		12.18	1.52	4.25	6.48
		13.71	1.52	.14	.21
		15.23	1.52	1.61	2.45
		16.76	1.52	.34	.52
		18.28	1.52	.14	.21
88-2	3.05	4.57	1.52	.31	.47
		6.09	1.52	.51	.78
		7.62	1.52	.14	.21
		9.14	1.52	.10	.15
		10.67	1.52	.34	.52
		12.19	1.52	.27	.41
			18.29		14.51
88-9	0.00	3.05	3.05	1.06	3.23
		4.57	1.52	.51	.78
		6.10	1.52	.65	.99
			6.10		5.00
88-34	18.28	19.80	1.52	.41	.62
		21.32	1.52	.58	.88
		22.85	1.52	.14	.21
		24.37	1.52	.17	.26
		25.89	1.52	.99	1.51
		27.42	1.52	.24	.37
88-2	12.18	13.71	1.52	.17	.26
		15.23	1.52	.14	.21
		16.75	1.52	.82	1.25
		18.28	1.52	.17	.26
		19.80	1.52	.31	.47
		21.33	1.52	.45	.69
			18.29		7.00
88-9	6.09	7.31	1.52	.21	.32
		8.83	1.52	.45	.69
		10.36	1.52	.72	1.10
		11.88	1.52	.31	.47
		13.41	1.52	.14	.21
		14.93	1.52	.14	.21
			9.14		3.00
88-16	0.00	3.05	3.05	.31	.95
		4.57	1.52	.55	.84
		6.10	1.52	.24	.37
		7.62	1.52	.31	.47
		9.15	1.52	.31	.47
			9.15		3.09
88.23	0.00	3.05	3.05	.31	.95
		4.57	1.52	.55	.84
			4.57		1.78

907B	20.00	7.00	23.50	3290.00	8225.00	.40	3308.98
907C	20.00	7.00	24.50	3430.00	8575.00	.81	6917.17
907D	20.00	7.00	30.00	4200.00	10500.00	1.03	10850.00
900A	20.00	7.00	14.00	1960.00	4900.00	.14	669.67
900B	20.00	7.00	21.50	3010.00	7525.00	.79	5932.21
900C	20.00	7.00	30.00	4200.00	10500.00	.32	3342.50

88-9	15.23	16.75	1.52	.27	.41
		18.28	1.52	.10	.15
		19.80	1.52	.03	.05
		21.32	1.52	.10	.15
		22.85	1.52	.21	.32
		24.37	1.52	.34	.52
		25.90	1.52	.10	.15
88-34	27.41	28.94	1.52	.27	.41
		30.46	1.52	.21	.32
		31.98	1.52	.17	.26
		33.51	1.52	.62	.94
		35.03	1.52	2.33	3.55
		36.56	1.52	.48	.73
			19.81		7.97
88-16	9.14	10.66	1.52	.27	.41
		12.18	1.52	.21	.32
		13.71	1.52	.38	.58
		15.23	1.52	2.71	4.13
		16.76	1.52	.62	.94
		18.28	1.52	.65	.99
			9.14		7.38
88-23	4.57	6.09	1.52	.82	1.25
		7.61	1.52	.38	.58
		9.14	1.52	.96	1.46
		10.66	1.52	2.19	3.34
		12.19	1.52	.99	1.51
		13.71	1.52	.86	1.31
			9.14		9.45
88-9	25.89	27.41	1.52	.10	.15
		28.94	1.52	.21	.32
		30.46	1.52	.10	.15
		31.99	1.52	.31	.47
		33.51	1.52	.10	.15
		35.03	1.52	.10	.15
		36.56	1.52	.10	.15
		38.08	1.52	.07	.11
		39.61	1.52	.14	.21
			13.72		1.87
88-16	18.28	19.80	1.52	.75	1.14
		21.32	1.52	.55	.84
		22.85	1.52	1.82	2.77
		24.37	1.52	.79	1.20
		25.89	1.52	.27	.41
		27.42	1.52	.55	.84
			9.14		7.21
88-23	13.71	15.23	1.52	.51	.79
		16.75	1.52	.99	1.51
		18.28	1.52	.21	.32
		19.80	1.52	.03	.05
		21.33	1.52	.10	.15
		22.85	1.52	.07	.11
			9.14		2.91

TABLE 6
1988 DRILL PROGRAM

NUCLEUS RESERVE CALCULATIONS
SECTION 2N

Cell	Thick.	Depth	Length	Volume	Tonnes	Wt. Ave.	T.xAve.
935A	20.00	6.00	14.50	1740.00	4350.00	.14	609.00
928A	20.00	7.00	13.50	1890.00	4725.00	.21	1001.70
928B	20.00	7.00	16.50	2310.00	5775.00	.37	2155.74
921A	20.00	7.00	20.50	2870.00	7175.00	1.47	10579.86
921B	20.00	7.00	28.00	3920.00	9800.00	.42	4083.32
914B	20.00	7.00	31.50	4410.00	11025.00	.38	4226.25
914C	20.00	7.00	23.50	3290.00	8225.00	.37	3054.95
914D	20.00	7.00	16.00	2240.00	5600.00	1.03	5768.00

Intercepts Hole No.	From	To	Interval	Grade	Wt.Ave.
88-35	0.00	3.05	3.05	.14	.43
88-35	3.05	4.57	1.52	.07	.11
		6.09	1.52	.17	.26
		7.62	1.52	.24	.37
		9.14	1.52	.10	.15
		10.67	1.52	.48	.73
			7.62		1.62
88-3	0.00	3.05	3.05	.27	.82
		4.57	1.52	.58	.88
			4.57		1.71
88-35	10.66	12.18	1.52	.55	.84
		13.71	1.52	.24	.37
		15.23	1.52	.17	.26
		16.76	1.52	.34	.52
		18.28	1.52	.21	.32
88-3	4.57	6.09	1.52	.41	.62
		7.62	1.52	.62	.94
		9.14	1.52	.24	.37
		10.66	1.52	.38	.58
		12.19	1.52	8.81	13.43
		13.71	1.52	4.25	6.48
			16.76		24.72
88-10	0.00	3.05	3.05	.41	1.25
		4.57	1.52	.31	.47
		6.10	1.52	.82	1.25
		7.62	1.52	.45	.69
		9.15	1.52	.10	.15
			9.15		3.81
88-10	9.14	10.66	1.52	.27	.41
		12.18	1.52	.21	.32
		13.71	1.52	.38	.58
		15.23	1.52	.69	1.05
		16.76	1.52	.51	.78
		18.28	1.52	.24	.37
			9.14		3.51
88-17	0.00	3.05	3.05	.34	1.04
		4.57	1.52	.31	.47
		6.10	1.52	.82	1.25
		7.62	1.52	.17	.26
		9.15	1.52	.41	.62
		10.67	1.52	.21	.32
			10.67		3.96
88-24	0.00	3.05	3.05	1.03	3.14

9078	20.00	7.00	19.00	2660.00	6650.00	.23	1518.42	88-10	18.28	19.80	1.52	.17	.26
										21.32	1.52	.24	.37
										22.85	1.52	.41	.62
										24.37	1.52	.14	.21
										25.89	1.52	.27	.41
										27.42	1.52	.14	.21
											9.14		2.09
907C	20.00	7.00	26.00	3640.00	9100.00	.35	3169.83	88-17	10.66	12.18	1.52	.31	.47
										13.71	1.52	.34	.52
										15.23	1.52	.38	.58
										16.76	1.52	.17	.26
										18.28	1.52	.55	.84
										19.80	1.52	.34	.52
											9.14		3.19
907D	20.00	7.00	30.50	4270.00	10675.00	.81	8682.33	88-24	3.05	4.57	1.52	.45	.69
										6.09	1.52	.17	.26
										7.62	1.52	.24	.37
										9.14	1.52	1.41	2.15
										10.67	1.52	1.20	1.83
										12.19	1.52	1.41	2.15
											9.14		7.44
9008	20.00	7.00	32.00	4480.00	11200.00	.77	8568.00	88-17	19.80	21.32	1.52	.27	.41
										22.85	1.52	.72	1.10
										24.37	1.52	.89	1.36
										25.89	1.52	1.27	1.94
										27.42	1.52	.99	1.51
										28.94	1.52	.45	.69
											9.14		7.00
900C	20.00	7.00	30.50	4270.00	10675.00	1.12	11938.21	88-24	12.18	13.71	1.52	2.16	3.29
										15.23	1.52	1.85	2.82
										16.75	1.52	1.06	1.62
										18.28	1.52	.75	1.14
										19.80	1.52	.51	.78
										21.33	1.52	.38	.58
											9.14		10.23
8938	20.00	7.00	41.50	5810.00	14525.00	.87	12564.13	88-24	21.32	22.84	1.52	1.89	2.88
										24.37	1.52	1.30	1.98
										25.89	1.52	1.10	1.68
										27.42	1.52	.31	.47
										28.94	1.52	.21	.32
										30.46	1.52	.38	.58
											9.14		7.91

NUCLEUS RESERVE CALCULATIONS
SECTION 3N

Cell	Thick.	Depth	Length	Volume	Tonnes	Wt. Ave.	T.xAve.
935A	20.00	7.00	21.00	2940.00	7350.00	0.00	.00
928A	20.00	7.00	35.00	4900.00	12250.00	.11	1388.26
921A	20.00	7.00	29.50	4130.00	10325.00	.14	1462.71
921B	20.00	7.00	19.50	2730.00	6825.00	.71	4823.55
914A	20.00	7.00	20.00	2800.00	7000.00	.22	1528.33
914B	20.00	7.00	25.80	3612.00	9030.00	.89	7991.55
914C	20.00	7.00	21.50	3010.00	7525.00	.68	5147.37
914D	20.00	7.00	24.00	3360.00	8400.00	.66	5522.79
907B	20.00	7.00	32.50	4550.00	11375.00	.46	
907C	20.00	7.00	24.00	3360.00	8400.00	.80	
907D	20.00	7.00	28.50	3990.00	9975.00	.57	
900A	20.00	7.00	21.00	2940.00	7350.00	.84	
900B	20.00	7.00	24.50	3430.00	8575.00	.81	

Intercepts Hole No.	From	To	Interval	Grade	Wt.Ave.
88-4	0.00	3.05	3.05	.10	.31
		4.57	1.52	.14	.21
			4.57		.52
88-4	4.57	6.09	1.52	.03	.05
		7.62	1.52	.38	.58
		9.14	1.52	.17	.26
		10.66	1.52	.07	.11
		12.19	1.52	.10	.15
		13.71	1.52	.10	.15
			9.14		1.30
88-11	0.00	3.05	3.05	.89	2.71
		4.57	1.52	.34	.52
			4.57		3.23
88-4	13.71	15.23	1.52	.24	.37
		16.75	1.52	.31	.47
		18.28	1.52	.21	.32
		19.80	1.52	.24	.37
		21.33	1.52	.14	.21
		22.85	1.52	.17	.26
			9.14		2.00
88-11	4.57	6.09	1.52	.38	.58
		7.62	1.52	.51	.78
		9.14	1.52	.48	.73
		10.66	1.52	.72	1.10
		12.19	1.52	2.19	3.34
		13.71	1.52	1.03	1.57
			9.14		8.09
88-18	0.00	3.05	3.05	.82	2.50
		4.57	1.52	.72	1.10
		6.10	1.52	.58	.88
		7.62	1.52	.48	.73
			7.62		5.21
88-25	0.00	3.05	3.05	.58	1.77
		4.57	1.52	1.20	1.83
		6.10	1.52	.27	.41
			6.10		4.01
88-11	13.71	15.23	1.52	.58	.88
		16.75	1.52	.41	.62
		18.28	1.52	.69	1.05
		19.80	1.52	.24	.37
		21.33	1.52	.41	.62
		22.85	1.52	.45	.69
			9.14		4.24
88-18	7.61	9.14	1.52	.45	.69
		10.66	1.52	.45	.69
		12.19	1.52	1.10	1.68
		13.71	1.52	.89	1.36
		15.23	1.52	1.44	2.19
		16.76	1.52	.48	.73
			9.14		7.33
88-25	6.09	7.61	1.52	.27	.41
		9.14	1.52	.34	.52
		10.66	1.52	1.10	1.68
		12.19	1.52	.31	.47
		13.71	1.52	.99	1.51
		15.23	1.52	.41	.62
			9.14		5.21
88-11	22.84	24.37	1.52	.14	.21
		25.89	1.52	.72	1.10
		27.42	1.52	.24	.37
		28.94	1.52	2.74	4.18
		30.46	1.52	.38	.58
			7.62		6.43
88-18	16.75	18.28	1.52	1.41	2.15
		19.80	1.52	.99	1.51
		21.32	1.52	.55	.84
		22.85	1.52	.89	1.36
		24.37	1.52	.31	.47
		25.90	1.52	.72	1.10
			9.14		7.42
88-25	15.23	16.75	1.52	.24	.37
		18.28	1.52	.14	.21
		19.80	1.52	1.44	2.19
		21.32	1.52	.99	1.51
		22.85	1.52	1.17	1.78

TABLE 8
1988 DRILL RESULTS

NUCLEUS RESERVE CALCULATIONS
SECTION 4N

Hill	Thick.	Depth	Length	Volume	Tonnes	Wt. Ave.	T.xAve.
935A	20.00	7.00	19.00	2660.00	6650.00	0.00	.00
928A	20.00	7.00	34.00	4760.00	11900.00	.27	3213.10
921A	20.00	7.00	21.00	2940.00	7350.00	.42	3074.75
921B	20.00	7.00	24.00	3360.00	8400.00	.53	4486.32
914A	20.00	7.00	8.50	1190.00	2975.00	.22	644.58
14B	20.00	7.00	26.50	3710.00	9275.00	.71	6585.25
914C	20.00	7.00	21.00	2940.00	7350.00	.66	4836.28
914D	20.00	6.00	28.50	3420.00	8550.00	.86	7374.93
907A	20.00	7.00	22.50	3150.00	7875.00	1.06	8321.25
907B	20.00	7.00	23.50	3290.00	8225.00	2.80	23016.29
907C	20.00	7.00	28.00	3920.00	9800.00	.58	5670.00
900A	20.00	7.00	33.50	4690.00	11725.00	1.54	17997.88

Intercepts

Hole No.	From	To	Interval	Grade	Wt.Ave.
88-5	0.00	3.05	3.05	.31	.95
		4.57	1.52	.24	.37
		6.10	1.52	.41	.62
		7.62	1.52	.21	.32
		9.15	1.52	.14	.21
			9.15		2.47
88-5	9.14	10.66	1.52	.69	1.05
		12.18	1.52	.24	.37
		13.71	1.52	.38	.58
		15.23	1.52	.31	.47
		16.76	1.52	.31	.47
		18.28	1.52	.58	.88
			9.14		3.83
88-12	0.00	3.05	3.05	.86	2.62
		4.57	1.52	.27	.41
		6.10	1.52	.51	.78
		7.62	1.52	.17	.26
			7.62		4.07
88-5	18.28	19.80	1.52	.17	.26
		21.32	1.52	.41	.62
		22.85	1.52	----------	.00
		24.37	1.52	.27	.41
		25.89	1.52	.14	.21
		27.42	1.52	.31	.47
			9.14		1.98
88-12	7.61	9.14	1.52	.24	.37
		10.66	1.52	.69	1.05
		12.19	1.52	.58	.88
		13.71	1.52	1.10	1.68
		15.23	1.52	.21	32
		16.76	1.52	1.44	2.19
			9.14		6.49
88-19	0.00	3.05	3.05	.65	1.98
		4.57	1.52	.89	1.36
		6.10	1.52	.41	.62
		7.62	1.52	.69	1.05
			7.62		5.02
88-26	0.00	3.05	3.05	1.06	3.23
		4.57	1.52	.51	.78
		6.10	1.52	.82	1.25
			6.10		5.26
88-12	16.75	18.28	1.52	1.20	1.83
		19.80	1.52	.82	1.25
		21.32	1.52	1.27	1.94
		22.85	1.52	1.47	2.24
		24.37	1.52	.65	.99
		25.90	1.52	.93	1.42
			9.14		9.66
88-19	7.61	9.14	1.52	4.66	7.10
		10.66	1.52	.62	.94
		12.19	1.52	4.11	6.26
		13.71	1.52	5.07	7.73
		15.23	1.52	1.34	2.04
		16.76	1.52	.99	1.51
			9.14		25.59
88-26	6.09	7.61	1.52	.79	1.20
		9.14	1.52	.38	.58
		10.66	1.52	.24	.37
		12.19	1.52	.82	1.25
		13.71	1.52	1.17	1.78
		15.23	1.52	.48	.73
		16.76	1.52	.17	.26
			10.67		6.17
88-19	16.75	18.28	1.52	1.30	1.98
		19.80	1.52	.41	.62
		21.32	1.52	1.30	1.98
		22.85	1.52	.79	1.20
		24.37	1.52	1.71	2.61
		25.90	1.52	3.70	5.64
			9.14		14.04

TABLE 9
1988 DRILL RESULTS

NUCLEUS RESERVE CALCULATIONS
SECTION 5N

Cell	Thick.	Depth	Length	Volume	Tonnes	Wt. Ave.	T.xAve.
935A	20.00	7.00	20.00	2800.00	7000.00	0.00	.00
928A	20.00	7.00	33.50	4690.00	11725.00	.88	10293.76
921A	20.00	7.00	25.00	3500.00	8750.00	.68	5906.25
921B	20.00	7.00	27.50	3850.00	9625.00	.31	3022.32
914A	20.00	7.00	13.00	1820.00	4550.00	.13	599.08
914B	20.00	7.00	27.50	3850.00	9625.00	.82	7876.46
914C	20.00	7.00	22.00	3080.00	7700.00	.25	1940.09
914D	20.00	5.50	17.00	1870.00	4675.00	.27	1262.25

Intercepts

Hole No.	From	To	Interval	Grade	Wt.Ave.
88-6	0.00	3.05	3.05	.62	1.89
		4.57	1.52	.82	1.25
		6.10	1.52	.89	1.36
		7.62	1.52	1.44	2.19
			7.62		6.69
88-6	7.62	9.14	1.52	1.03	1.57
		10.66	1.52	.82	1.25
		12.19	1.52	.31	.47
		13.71	1.52	.31	.47
		15.24	1.52	.24	.37
		16.76	1.52	1.34	2.04
			9.14		6.17
88-13	0.00	3.05	3.05	.34	1.04
		4.57	1.52	.31	.47
		6.10	1.52	.27	.41
		7.62	1.52	.31	.47
			7.62		2.39
88-6	16.75	18.28	1.52	.10	.15
		19.80	1.52	.27	.41
		21.32	1.52	.14	.21
		22.85	1.52	.07	.11
		24.37	1.52	.14	.21
		25.90	1.52	.07	.11
			9.14		1.20
88-13	7.61	9.14	1.52	.45	.69
		10.66	1.52	.62	.94
		12.19	1.52	.51	.78
		13.71	1.52	1.17	1.78
		15.23	1.52	.48	.73
		16.76	1.52	1.68	2.56
			9.14		7.48
88-20	0.00	3.05	3.05	.10	.31
		4.57	1.52	.38	.58
		6.10	1.52	.41	.62
		7.62	1.52	.27	.41
			7.62		1.92
88-27	0.00	3.05	3.05	.27	.82

907A	20.00	7.00	26.00	3640.00	9100.00	1.90	17259.67
907B	20.00	7.00	25.00	3500.00	8750.00	.22	1895.83
907C	20.00	7.00	24.00	3360.00	8400.00	.36	3038.00
907D	20.00	7.00	29.00	4060.00	10150.00	.33	3329.05
900A	20.00	7.00	34.00	4760.00	11900.00	.55	6525.17
900B	20.00	7.00	24.30	3402.00	8505.00	1.14	9709.88
900C	20.00	7.00	30.00	4200.00	10500.00	.64	6720.00
893B	20.00	7.00	29.50	4130.00	10325.00	1.82	18808.71

88-13	16.75	18.28	1.52	1.44	2.19
		19.80	1.52	1.71	2.61
		21.32	1.52	2.47	3.76
		22.85	1.52	3.36	5.12
		24.37	1.52	.93	1.42
		25.90	1.52	1.47	2.24
			9.14		17.34
88-20	7.61	9.14	1.52	.24	.37
		10.66	1.52	.38	.58
		12.19	1.52	.10	.15
		13.71	1.52	.24	.37
		15.23	1.52	.17	.26
		16.76	1.52	.17	.26
			9.14		1.98
88-27	3.05	4.57	1.52	.89	1.36
		6.09	1.52	.21	.32
		7.62	1.52	.07	.11
		9.14	1.52	.55	.84
		10.67	1.52	.31	.47
		12.19	1.52	.14	.21
			9.14		3.31
88-30	0.00	3.05	3.05	.27	.82
		4.57	1.52	.21	.32
		6.10	1.52	.34	.52
		7.62	1.52	.55	.84
			7.62		2.50
88-20	16.75	18.28	1.52	.27	.41
		19.80	1.52	.34	.52
		21.32	1.52	.58	.88
		22.85	1.52	.38	.58
		24.37	1.52	.62	.94
		25.90	1.52	1.10	1.68
			9.14		5.01
88-27	12.18	13.71	1.52	.27	.41
		15.23	1.52	.55	.84
		16.75	1.52	1.03	1.57
		18.28	1.52	1.47	2.24
		19.80	1.52	2.88	4.39
		21.32	1.52	.65	.99
			9.14		10.44
88-30	7.61	9.14	1.52	.55	.84
		10.66	1.52	.38	.58
		12.19	1.52	.31	.47
		13.71	1.52	1.23	1.87
		15.23	1.52	.62	.94
		16.76	1.52	.75	1.14
			9.14		5.85
88-30	16.75	18.28	1.52	.65	.99
		19.80	1.52	.51	.78
		21.32	1.52	2.74	4.18
		22.85	1.52	1.61	2.45
		24.37	1.52	4.53	6.90
		25.90	1.52	.89	1.36
			9.14		16.66

TABLE 10
1988 DRILL PROGRAM

NUCLEUS RESERVE CALCULATIONS
SECTION 6N

Cell	Thick.	Depth	Length	Volume	Tonnes	Wt. Ave.	T.xAve.
949A	20.00	7.00	8.00	1120.00	2800.00	0.00	.00
942A	20.00	7.00	25.00	3500.00	8750.00	0.00	.00
935A	20.00	7.00	44.00	6160.00	15400.00	0.00	.00
928A	20.00	7.00	60.00	8400.00	21000.00	.22	4619.54
921A	20.00	7.00	52.00	7280.00	18200.00	.65	11860.33
921B	20.00	7.00	22.00	3080.00	7700.00	.19	1450.25
921C	20.00	6.00	14.50	1740.00	4350.00	.48	2088.00
914A	20.00	7.00	38.00	5320.00	13300.00	.72	9598.17
914B	20.00	7.00	24.50	3430.00	8575.00	.33	2844.04
914C	20.00	7.00	24.50	3430.00	8575.00	.38	3229.92
914D	20.00	7.00	26.50	3710.00	9275.00	.68	6324.97

Intercepts

Hole No.	From	To	Interval	Grade	Wt.Ave.
88-7	0.00	3.05	3.05	.21	.64
		4.57	1.52	.24	.36
			4.57		1.01
88-7	4.57	6.09	1.52	.17	.26
		7.61	1.52	.55	.84
		9.14	1.52	.48	.73
		10.66	1.52	.89	1.36
		12.19	1.52	.65	.99
		13.71	1.52	1.17	1.78
			9.14		5.96
88-14	0.00	3.05	3.05	.24	.73
		4.57	1.52	.27	.41
		6.10	1.52	.14	.21
		7.62	1.52	.10	.15
		9.15	1.52	.14	.21
			9.15		1.72
88-21	0.00	3.05	3.05	.48	1.46
88-7	13.71	15.23	1.52	.38	.58
		16.75	1.52	.45	.68
		18.27	1.52	.96	1.46
		19.79	1.52	.48	.73
		21.31	1.52	1.27	1.93
		22.83	1.52	.79	1.20
			9.12		6.58
88-14	9.14	10.66	1.52	.10	.15
		12.18	1.52	.14	.21
		13.71	1.52	.34	.52
		15.23	1.52	.31	.47
		16.76	1.52	.21	.32
		18.28	1.52	.89	1.36
			9.14		3.03
88-21	3.05	4.57	1.52	.34	.52
		6.09	1.52	.38	.58
		7.62	1.52	.48	.73
		9.14	1.52	.38	.58
		10.67	1.52	.27	.41
		12.19	1.52	.41	.62
			9.14		3.44
88-28	0.00	3.05	3.05	.34	1.04
		4.57	1.52	.58	.88
		6.09	1.52	1.47	2.23
			6.09		4.15

c) Tables 11 to 14 show the tonnages and grades including all cells with no cutoffs, and cutoffs of 0.5, 0.7 and 1.0 g/t gold, respectively.

The position and grade of cells is shown in vertical sections on Figures N-4 to N-12. The section that contains 1984 drill holes 84-1 and 84-3, as well as the high grade rotary hole 88-8, has been designated "0N" for this calculation and each section spaced 20 m to the north or south is called "1N", "2N" etc. or "1S", "2S" etc., respectively. Each cell is uniquely identified by a number consisting of the number of the section, the level of the bench upon which the cell rests and a unique letter (e.g. 2N921B).

The horizontal distribution of mineralization is shown on bench plans on Figures N-13 to N-20. A compilation of all the bench plans is shown on Figure N-21.

Test Pit

Apart from the higher grade material in the Stephen Vein area, most of the mineralization in the proposed test pit is relatively uniformly grade. There is no specific smaller part that could be selectively mined to provide 50,000 tonnes of higher grade material suitable for a test mining operation, and no attempt was made to design a small pit for such an operation.

TABLE 11
1988 DRILL PROGRAM

NUCLEUS DEPOSIT

0.0 G/T GOLD CUTOFF (TOTAL CELL TONNAGE):

CELL NO.	THICKNESS (m)	DEPTH (m)	LENGTH (m)	VOLUME (cu.m)	TONNES ORE	AV.GRADE (g/t)	TONNES WASTE
SECTION 2S							
953A	20.0	7.0	21.0	2,940	7,350	.27	0.00
928A	20.0	7.0	38.0	5,320	13,300	.23	0.00
921A	20.0	7.0	59.0	8,260	20,650	.24	0.00
914A	20.0	7.0	67.0	9,380	23,450	.06	0.00
907A	20.0	7.0	83.0	11,620	29,050	.09	0.00
900A	20.0	7.0	80.0	11,200	28,000	.25	0.00
893A	20.0	7.0	65.0	9,100	22,750	.46	0.00
886A	20.0	7.0	52.0	7,280	18,200	3.79	0.00
879A	20.0	7.0	40.0	5,600	14,000	4.29	0.00
				70,700	176,750	.91	0
SECTION 1S							
935A	20.0	7.0	21.5	3,010	7,525	.41	0.00
928A	20.0	7.0	35.0	4,900	12,250	.28	0.00
921A	20.0	7.0	56.0	7,840	19,600	.08	0.00
914A	20.0	7.0	74.5	10,430	26,075	.24	0.00
907A	20.0	7.0	67.0	9,380	23,450	.37	0.00
900A	20.0	7.0	53.0	7,420	18,550	2.24	0.00
893A	20.0	7.0	40.0	5,600	14,000	.93	0.00
				48,580	121,450	.64	0
SECTION 0N							
935A	20.0	7.0	21.0	2,940	7,350	.17	0.00
928A	20.0	7.0	32.0	4,480	11,200	.19	0.00
928B	20.0	7.0	16.5	2,310	5,775	.25	0.00
921A	20.0	7.0	24.5	3,430	8,575	1.81	0.00
921B	20.0	7.0	15.5	2,170	5,425	.33	0.00
921C	20.0	7.0	25.0	3,500	8,750	.26	0.00
914A	20.0	7.0	26.5	3,710	9,275	.53	0.00
914B	20.0	7.0	23.0	3,220	8,050	6.10	0.00
914C	20.0	7.0	23.5	3,290	8,225	1.63	0.00
914D	20.0	6.0	13.5	1,620	4,050	.89	0.00
907A	20.0	7.0	17.0	2,380	5,950	.25	0.00
907B	20.0	7.0	17.0	2,380	5,950	39.79	0.00
907C	20.0	7.0	26.0	3,640	9,100	.53	0.00
907D	20.0	7.0	23.5	3,290	8,225	.93	0.00
907E	20.0	7.0	19.0	2,660	6,650	.35	0.00
900A	20.0	7.0	21.0	2,940	7,350	.44	0.00
900B	20.0	7.0	30.0	4,200	10,500	.48	0.00
900C	20.0	7.0	26.5	3,710	9,275	.37	0.00
900D	20.0	7.0	30.5	4,270	10,675	.62	0.00
893B	20.0	7.0	39.5	5,530	13,825	.56	0.00
893C	20.0	7.0	30.5	4,270	10,675	.46	0.00
886B	20.0	7.0	53.0	7,420	18,550	1.60	0.00
				77,360	193,400	2.12	0
SECTION 1N							
928A	20.0	7.0	19.0	2,660	6,650	.43	0.00
928B	20.0	5.5	11.0	1,210	3,025	.45	0.00
921A	20.0	7.0	23.5	3,290	8,225	.79	0.00
921B	20.0	7.0	26.0	3,640	9,100	.82	0.00
914A	20.0	7.0	13.0	1,820	4,550	.38	0.00
914B	20.0	7.0	23.0	3,220	8,050	.33	0.00
914C	20.0	7.0	22.0	3,080	7,700	.34	0.00
914D	20.0	7.0	18.5	2,590	6,475	.39	0.00
907B	20.0	7.0	23.5	3,290	8,225	.40	0.00
907C	20.0	7.0	24.5	3,430	8,575	.81	0.00
907D	20.0	7.0	30.0	4,200	10,500	1.03	0.00
900A	20.0	7.0	14.0	1,960	4,900	.14	0.00
900B	20.0	7.0	21.5	3,010	7,525	.79	0.00
900C	20.0	7.0	30.0	4,200	10,500	.32	0.00
				41,600	104,000	.56	0

SECTION 2N

935A	20.0	6.0	14.5	1,740	4,350	.14	0.00
928A	20.0	7.0	13.5	1,890	4,725	.21	0.00
928B	20.0	7.0	16.5	2,310	5,775	.37	0.00
921A	20.0	7.0	20.5	2,870	7,175	1.47	0.00
921B	20.0	7.0	28.0	3,920	9,800	.42	0.00
914B	20.0	7.0	31.5	4,410	11,025	.38	0.00
914C	20.0	7.0	23.5	3,290	8,225	.37	0.00
914D	20.0	7.0	16.0	2,240	5,600	1.03	0.00
907B	20.0	7.0	19.0	2,660	6,650	.23	0.00
907C	20.0	7.0	26.0	3,640	9,100	.35	0.00
907D	20.0	7.0	30.5	4,270	10,675	.81	0.00
900B	20.0	7.0	32.0	4,480	11,200	.77	0.00
900C	20.0	7.0	30.5	4,270	10,675	1.12	0.00
893B	20.0	7.0	41.5	5,810	14,525	.87	0.00
				47,800	119,500	.65	0

SECTION 3N

935A	20.0	7.0	21.0	2,940	7,350	0.00	0.00
928A	20.0	7.0	35.0	4,900	12,250	.11	0.00
921A	20.0	7.0	29.5	4,130	10,325	.14	0.00
921B	20.0	7.0	19.5	2,730	6,825	.71	0.00
914A	20.0	7.0	20.0	2,800	7,000	.22	0.00
914B	20.0	7.0	25.8	3,612	9,030	.89	0.00
914C	20.0	7.0	21.5	3,010	7,525	.68	0.00
914D	20.0	7.0	24.0	3,360	8,400	.66	0.00
				27,482	68,705	.41	0

SECTION 4N

935A	20.0	7.0	20.0	2,800	7,000	0.00	0.00
928A	20.0	7.0	34.0	4,760	11,900	.27	0.00
921A	20.0	7.0	21.0	2,940	7,350	.42	0.00
921B	20.0	7.0	24.0	3,360	8,400	.53	0.00
914A	20.0	7.0	8.5	1,190	2,975	.22	0.00
914B	20.0	7.0	26.5	3,710	9,275	.71	0.00
914C	20.0	7.0	21.0	2,940	7,350	.66	0.00
914D	20.0	6.0	28.5	3,420	8,550	.86	0.00
907A	20.0	7.0	22.5	3,150	7,875	1.06	0.00
907B	20.0	7.0	23.5	3,290	8,225	2.80	0.00
907C	20.0	7.0	28.0	3,920	9,800	.58	0.00
900A	20.0	7.0	33.5	4,690	11,725	1.54	0.00
				40,170	100,425	.85	0

SECTION 5N

935A	20.0	7.0	20.0	2,800	7,000	0.00	0.00
928A	20.0	7.0	33.5	4,690	11,725	.88	0.00
921A	20.0	7.0	25.0	3,500	8,750	.68	0.00
921B	20.0	7.0	27.5	3,850	9,625	.31	0.00
914A	20.0	7.0	13.0	1,820	4,550	.13	0.00
914B	20.0	7.0	27.5	3,850	9,625	.82	0.00
914C	20.0	7.0	22.0	3,080	7,700	.25	0.00
914D	20.0	7.0	17.0	2,380	5,950	.27	0.00
907A	20.0	7.0	26.0	3,640	9,100	1.90	0.00
907B	20.0	7.0	25.0	3,500	8,750	.22	0.00
907C	20.0	7.0	24.0	3,360	8,400	.36	0.00
907D	20.0	7.0	29.0	4,060	10,150	.33	0.00
900A	20.0	7.0	34.0	4,760	11,900	.55	0.00
900C	20.0	7.0	24.5	3,430	8,575	1.14	0.00
893B	20.0	7.0	29.5	4,130	10,325	1.82	0.00
				52,950	132,125	.70	0

SECTION 6N

949A	20.0	7.0	8.0	1,120	2,800	0.00	0.00
942A	20.0	7.0	25.0	3,500	8,750	0.00	0.00
935A	20.0	7.0	44.0	6,160	15,400	0.00	0.00
928A	20.0	7.0	60.0	8,400	21,000	.22	0.00
921A	20.0	7.0	52.0	7,280	18,200	.65	0.00
921B	20.0	7.0	22.0	3,080	7,700	.19	0.00
921C	20.0	7.0	14.5	2,030	5,075	.48	0.00
914A	20.0	7.0	38.0	5,320	13,300	.72	0.00
914B	20.0	7.0	24.5	3,430	8,575	.33	0.00
914C	20.0	7.0	24.5	3,430	8,575	.38	0.00
914D	20.0	7.0	26.5	3,710	9,275	.68	0.00
907A	20.0	7.0	27.5	3,850	9,625	1.36	0.00
907B	20.0	7.0	24.5	3,430	8,575	.52	0.00
907C	20.0	7.0	27.5	3,850	9,625	.53	0.00
907D	20.0	7.0	30.0	4,200	10,500	1.10	0.00
900A	20.0	7.0	30.0	4,200	10,500	.52	0.00
900B	20.0	7.0	30.0	4,200	10,500	1.14	0.00
				71,190	177,975	.53	0

1988 DRILL PROGRAM
NUCLEUS DEPOSIT

SUMMARY OF OXIDE RESERVES

0.0 g/t GOLD CUTOFF

	ORE (tonnes)	GOLD GRADE (g/t)	GOLD CONTENT (g/t)	WASTE (tonnes)	WASTE/ ORE RATIO
2S	176,750	.91	160,524	0	.00
1S	121,450	.64	77,590	0	.00
0N	193,400	2.12	409,134	0	.00
1N	104,000	.56	58,751	0	.00
2N	119,500	.65	77,980	0	.00
3N	68,705	.41	27,876	0	.00
4N	100,425	.85	85,314	0	.00
5N	132,125	.70	91,968	0	.00
6N	177,975	.53	93,951	0	.00
TOTALS:	1,194,330	.91	1,083,087	0	.00

NUCLEUS DEPOSIT
OXIDE RESERVES

0.5 G/T GOLD CUTOFF

CELL NO.	THICKNESS (m)	DEPTH (m)	LENGTH (m)	VOLUME (cu.m)	TONNES ORE	AV.GRADE (g/t)	TONNES WASTE
SECTION 2S							
953A	20.0	7.0	21.0	2,940	0	.27	7,350
928A	20.0	7.0	38.0	5,320	0	.23	13,300
921A	20.0	7.0	59.0	8,260	0	.24	20,650
914A	20.0	7.0	67.0	9,380	0	.06	23,450
907A	20.0	7.0	83.0	11,620	0	.09	29,050
900A	20.0	7.0	80.0	11,200	0	.25	28,000
893A	20.0	7.0	65.0	9,100	0	.46	22,750
886A	20.0	7.0	52.0	7,280	18,200	3.79	0
879A	20.0	7.0	40.0	5,600	14,000	4.29	0
				70,700	32,200	4.01	144,550
SECTION 1S							
935A	20.0	7.0	21.5	3,010	0	.41	7,525
928A	20.0	7.0	35.0	4,900	0	.28	12,250
921A	20.0	7.0	56.0	7,840	0	.08	19,600
914A	20.0	7.0	74.5	10,430	0	.24	26,075
907A	20.0	7.0	67.0	9,380	0	.37	23,450
900A	20.0	7.0	53.0	7,420	18,550	2.24	0
893A	20.0	7.0	40.0	5,600	14,000	.93	0
				48,580	32,550	1.68	88,900
SECTION 0N							
935A	20.0	7.0	21.0	2,940	0	.17	7,350
928A	20.0	7.0	32.0	4,480	0	.19	11,200
928B	20.0	7.0	16.5	2,310	0	.25	5,775
921A	20.0	7.0	24.5	3,430	0	1.81	0
921B	20.0	7.0	15.5	2,170	0	.33	5,425
921C	20.0	7.0	25.0	3,500	0	.26	8,750
914A	20.0	7.0	26.5	3,710	9,275	.53	0
914B	20.0	7.0	23.0	3,220	8,050	6.10	0
914C	20.0	7.0	23.5	3,290	8,225	1.63	0
914D	20.0	6.0	13.5	1,620	4,050	.89	0
907A	20.0	7.0	17.0	2,380	0	.25	5,950
907B	20.0	7.0	17.0	2,380	5,950	39.79	0
907C	20.0	7.0	26.0	3,640	9,100	.53	0
907D	20.0	7.0	23.5	3,290	8,225	.93	0
907E	20.0	7.0	19.0	2,660	0	.35	6,650
900A	20.0	7.0	21.0	2,940	0	.44	7,350
900B	20.0	7.0	30.0	4,200	0	.48	10,500
900C	20.0	7.0	26.5	3,710	0	.37	9,275
900D	20.0	7.0	30.5	4,270	10,675	.62	0
893B	20.0	7.0	39.5	5,530	13,825	.56	0
893C	20.0	7.0	30.5	4,270	0	.46	10,675
886B	20.0	7.0	53.0	7,420	18,550	1.60	0
				77,360	95,925	3.80	88,900
SECTION 1N							
928A	20.0	7.0	19.0	2,660	0	.43	6,650
928B	20.0	5.5	11.0	1,210	0	.45	3,025
921A	20.0	7.0	23.5	3,290	8,225	.79	0
921B	20.0	7.0	26.0	3,640	9,100	.82	0
914A	20.0	7.0	13.0	1,820	0	.38	4,550
914B	20.0	7.0	23.0	3,220	0	.33	8,050
914C	20.0	7.0	22.0	3,080	0	.34	7,700
914D	20.0	7.0	18.5	2,590	0	.39	6,475
907B	20.0	7.0	23.5	3,290	0	.40	8,225
907C	20.0	7.0	24.5	3,430	8,575	.81	0
907D	20.0	7.0	30.0	4,200	10,500	1.03	0
900A	20.0	7.0	14.0	1,960	0	.14	4,900
900B	20.0	7.0	21.5	3,010	7,525	.79	0
900C	20.0	7.0	30.0	4,200	0	.32	10,500
				41,600	43,925	.86	60,075
SECTION 2N							
935A	20.0	6.0	14.5	1,740	0	.14	4,350
928A	20.0	7.0	13.5	1,890	0	.21	4,725
928B	20.0	7.0	16.5	2,310	0	.37	5,775
921A	20.0	7.0	20.5	2,870	7,175	1.47	0
921B	20.0	7.0	28.0	3,920	0	.42	9,800
914B	20.0	7.0	31.5	4,410	0	.38	11,025
914C	20.0	7.0	23.5	3,290	0	.37	8,225
914D	20.0	7.0	16.0	2,240	5,600	1.03	0
907B	20.0	7.0	19.0	2,660	0	.23	6,650
907C	20.0	7.0	26.0	3,640	0	.35	9,100
907D	20.0	7.0	30.5	4,270	10,675	.81	0
900B	20.0	7.0	32.0	4,480	11,200	.77	0
900C	20.0	7.0	30.5	4,270	10,675	1.12	0

SECTION 3N

935A	20.0	7.0	21.0	2,940	0	0.00	7,350
928A	20.0	7.0	35.0	4,900	0	.11	12,250
921A	20.0	7.0	29.5	4,130	0	.14	10,325
921B	20.0	7.0	19.5	2,730	6,825	.71	0
914A	20.0	7.0	20.0	2,800	0	.22	7,000
914B	20.0	7.0	25.8	3,612	9,030	.89	0
914C	20.0	7.0	21.5	3,010	7,525	.68	0
914D	20.0	7.0	24.0	3,360	8,400	.66	0
				27,482	31,780	.74	36,925

SECTION 4N

935A	20.0	7.0	20.0	2,800	0	0.00	7,000
928A	20.0	7.0	34.0	4,760	0	.27	11,900
921A	20.0	7.0	21.0	2,940	0	.42	7,350
921B	20.0	7.0	24.0	3,360	8,400	.53	0
914A	20.0	7.0	8.5	1,190	0	.22	2,975
914B	20.0	7.0	26.5	3,710	9,275	.71	0
914C	20.0	7.0	21.0	2,940	7,350	.66	0
914D	20.0	6.0	28.5	3,420	8,550	.86	0
907A	20.0	7.0	22.5	3,150	7,875	1.06	0
907B	20.0	7.0	23.5	3,290	8,225	2.80	0
907C	20.0	7.0	28.0	3,920	9,800	.58	0
900A	20.0	7.0	33.5	4,690	11,725	1.54	0
				40,170	71,200	1.10	29,225

SECTION 5N

935A	20.0	7.0	20.0	2,800	0	0.00	7,000
928A	20.0	7.0	33.5	4,690	11,725	.88	0
921A	20.0	7.0	25.0	3,500	8,750	.68	0
921B	20.0	7.0	27.5	3,850	0	.31	9,625
914A	20.0	7.0	13.0	1,820	0	.13	4,550
914B	20.0	7.0	27.5	3,850	9,625	.82	0
914C	20.0	7.0	22.0	3,080	0	.25	7,700
914D	20.0	7.0	17.0	2,380	0	.27	5,950
907A	20.0	7.0	26.0	3,640	9,100	1.90	0
907B	20.0	7.0	25.0	3,500	0	.22	8,750
907C	20.0	7.0	24.0	3,360	0	.36	8,400
907D	20.0	7.0	29.0	4,060	0	.33	10,150
900A	20.0	7.0	34.0	4,760	11,900	.55	0
900C	20.0	7.0	24.5	3,430	8,575	1.14	0
893B	20.0	7.0	29.5	4,130	10,325	1.82	0
				52,850	70,000	1.09	62,125

SECTION 6N

949A	20.0	7.0	8.0	1,120	0	0.00	2,800
942A	20.0	7.0	25.0	3,500	0	0.00	8,700
935A	20.0	7.0	44.0	6,160	0	0.00	15,400
928A	20.0	7.0	60.0	8,400	0	.22	21,000
921A	20.0	7.0	52.0	7,280	18,200	.65	0
921B	20.0	7.0	22.0	3,080	0	.19	7,700
921C	20.0	7.0	14.5	2,030	0	.48	5,075
914A	20.0	7.0	38.0	5,320	13,300	.72	0
914B	20.0	7.0	24.5	3,430	0	.33	8,575
914C	20.0	7.0	24.5	3,430	0	.38	8,575
914D	20.0	7.0	26.5	3,710	9,275	.68	0
907A	20.0	7.0	27.5	3,850	9,625	1.36	0
907B	20.0	7.0	24.5	3,430	8,575	.52	0
907C	20.0	7.0	27.5	3,850	9,625	.53	0
907D	20.0	7.0	30.0	4,200	10,500	1.10	0
900A	20.0	7.0	30.0	4,200	10,500	.52	0
900B	20.0	7.0	30.0	4,200	10,500	1.14	0
				71,190	100,100	.79	77,825

1988 DRILL PROGRAM
NUCLEUS DEPOSIT

SUMMARY OF OXIDE RESERVES

0.5 g/t GOLD CUTOFF

	ORE (tonnes)	GOLD GRADE (g/t)	GOLD CONTENT (g/t)	WASTE (tonnes)	WASTE/ ORE RATIO
2S	32,200	4.01	129,038	144,550	4.49
1S	32,550	1.68	54,572	88,900	2.73
0N	95,925	3.80	364,295	88,900	.93
1N	43,925	.86	37,665	60,075	1.37
2N	59,850	.97	58,179	59,650	1.00
3N	31,780	.74	23,543	36,925	1.16
4N	71,200	1.10	78,359	29,225	.41
5N	70,000	1.09	76,563	62,125	.89
6N	100,100	.79	79,343	77,825	.78

TABLE 13
1988 DRILL PROGRAM

NUCLEUS DEPOSIT
OXIDE RESERVES

0.7 G/T GOLD CUTOFF

CELL NO.	THICKNESS (m)	DEPTH (m)	LENGTH (m)	VOLUME (cu.m)	TONNES ORE	AV.GRADE (g/t)	TONNES WASTE
SECTION 2S							
953A	20.0	7.0	21.0	2,940	0	.27	7,350
928A	20.0	7.0	38.0	5,320	0	.23	13,300
921A	20.0	7.0	59.0	8,260	0	.24	20,650
914A	20.0	7.0	67.0	9,380	0	.06	23,450
907A	20.0	7.0	83.0	11,620	0	.09	29,050
900A	20.0	7.0	80.0	11,200	0	.25	28,000
893A	20.0	7.0	65.0	9,100	0	.46	22,750
886A	20.0	7.0	52.0	7,280	18,200	3.79	0
879A	20.0	7.0	40.0	5,600	14,000	4.29	0
				70,700	32,200	4.01	144,550
SECTION 1S							
935A	20.0	7.0	21.5	3,010	0	.41	7,525
928A	20.0	7.0	35.0	4,900	0	.28	12,250
921A	20.0	7.0	56.0	7,840	0	.08	19,600
914A	20.0	7.0	74.5	10,430	0	.24	26,075
907A	20.0	7.0	67.0	9,380	0	.37	23,450
900A	20.0	7.0	53.0	7,420	18,550	2.24	0
893A	20.0	7.0	40.0	5,600	14,000	.93	0
				48,580	32,550	1.68	88,900
SECTION 0N							
935A	20.0	7.0	21.0	2,940	0	.17	7,350
928A	20.0	7.0	32.0	4,480	0	.19	11,200
928B	20.0	7.0	16.5	2,310	0	.25	5,775
921A	20.0	7.0	24.5	3,430	0	1.81	0
921B	20.0	7.0	15.5	2,170	0	.33	5,425
921C	20.0	7.0	25.0	3,500	0	.26	8,750
914A	20.0	7.0	26.5	3,710	0	.53	9,275
914B	20.0	7.0	23.0	3,220	8,050	6.10	0
914C	20.0	7.0	23.5	3,290	8,225	1.63	0
914D	20.0	6.0	13.5	1,620	4,050	.89	0
907A	20.0	7.0	17.0	2,380	0	.25	5,950
907B	20.0	7.0	17.0	2,380	5,950	39.79	0
907C	20.0	7.0	26.0	3,640	0	.53	9,100
907D	20.0	7.0	23.5	3,290	8,225	.93	0
907E	20.0	7.0	19.0	2,660	0	.35	6,650
900A	20.0	7.0	21.0	2,940	0	.44	7,350
900B	20.0	7.0	30.0	4,200	0	.48	10,500
900C	20.0	7.0	26.5	3,710	0	.37	9,275
900D	20.0	7.0	30.5	4,270	0	.62	10,675
893B	20.0	7.0	39.5	5,530	0	.56	13,825
893C	20.0	7.0	30.5	4,270	0	.46	10,675
886B	20.0	7.0	53.0	7,420	18,550	1.60	0
				77,360	53,050	6.41	131,775
SECTION 1N							
928A	20.0	7.0	19.0	2,660	0	.43	6,650
928B	20.0	5.5	11.0	1,210	0	.45	3,025
921A	20.0	7.0	23.5	3,290	8,225	.79	0
921B	20.0	7.0	26.0	3,640	9,100	.82	0
914A	20.0	7.0	13.0	1,820	0	.38	4,550
914B	20.0	7.0	23.0	3,220	0	.33	8,050
914C	20.0	7.0	22.0	3,080	0	.34	7,700
914D	20.0	7.0	18.5	2,590	0	.39	6,475
907B	20.0	7.0	23.5	3,290	0	.40	8,225
907C	20.0	7.0	24.5	3,430	8,575	.81	0
907D	20.0	7.0	30.0	4,200	10,500	1.03	0
900A	20.0	7.0	14.0	1,960	0	.14	4,900
900B	20.0	7.0	21.5	3,010	7,525	.79	0
900C	20.0	7.0	30.0	4,200	0	.32	10,500
				41,600	43,925	.86	60,075

SECTION 2N

935A	20.0	6.0	14.5	1,740	0	.14	4,350
928A	20.0	7.0	13.5	1,890	0	.21	4,725
928B	20.0	7.0	16.5	2,310	0	.37	5,775
921A	20.0	7.0	20.5	2,870	7,175	1.47	0
921B	20.0	7.0	28.0	3,920	0	.42	9,800
914B	20.0	7.0	31.5	4,410	0	.38	11,025
914C	20.0	7.0	23.5	3,290	0	.37	8,225
914D	20.0	7.0	16.0	2,240	5,600	1.03	0
907B	20.0	7.0	19.0	2,660	0	.23	6,650
907C	20.0	7.0	26.0	3,640	0	.35	9,100
907D	20.0	7.0	30.5	4,270	10,675	.81	0
900B	20.0	7.0	32.0	4,480	11,200	.77	0
900C	20.0	7.0	30.5	4,270	10,675	1.12	0
893B	20.0	7.0	41.5	5,810	14,525	.87	0
				47,800	59,850	.97	59,650

SECTION 3N

935A	20.0	7.0	21.0	2,940	0	0.00	7,350
928A	20.0	7.0	35.0	4,900	0	.11	12,250
921A	20.0	7.0	29.5	4,130	0	.14	10,325
921B	20.0	7.0	19.5	2,730	6,825	.71	0
914A	20.0	7.0	20.0	2,800	0	.22	7,000
914B	20.0	7.0	25.8	3,612	9,030	.89	0
914C	20.0	7.0	21.5	3,010	0	.68	7,525
914D	20.0	7.0	24.0	3,360	0	.66	8,400
				27,482	15,855	.81	52,850

SECTION 4N

935A	20.0	7.0	20.0	2,800	0	0.00	7,000
928A	20.0	7.0	34.0	4,760	0	.27	11,900
921A	20.0	7.0	21.0	2,940	0	.42	7,350
921B	20.0	7.0	24.0	3,360	0	.53	8,400
914A	20.0	7.0	8.5	1,190	0	.22	2,975
914B	20.0	7.0	26.5	3,710	9,275	.71	0
914C	20.0	7.0	21.0	2,940	0	.66	7,350
914D	20.0	6.0	28.5	3,420	8,550	.86	0
907A	20.0	7.0	22.5	3,150	7,875	1.06	0
907B	20.0	7.0	23.5	3,290	8,225	2.80	0
907C	20.0	7.0	28.0	3,920	0	.58	9,800
900A	20.0	7.0	33.5	4,690	11,725	1.54	0
				40,170	45,650	1.39	54,775

SECTION 5N

935A	20.0	7.0	20.0	2,800	0	0.00	7,000
928A	20.0	7.0	33.5	4,690	11,725	.88	0
921A	20.0	7.0	25.0	3,500	0	.68	8,750
921B	20.0	7.0	27.5	3,850	0	.31	9,625
914A	20.0	7.0	13.0	1,820	0	.13	4,550
914B	20.0	7.0	27.5	3,850	9,625	.82	0
914C	20.0	7.0	22.0	3,080	0	.25	7,700
914D	20.0	7.0	17.0	2,380	0	.27	5,950
907A	20.0	7.0	26.0	3,640	9,100	1.90	0
907B	20.0	7.0	25.0	3,500	0	.22	8,750
907C	20.0	7.0	24.0	3,360	0	.36	8,400
907D	20.0	7.0	29.0	4,060	0	.33	10,150
900A	20.0	7.0	34.0	4,760	0	.55	11,900
900C	20.0	7.0	24.5	3,430	8,575	1.14	0
893B	20.0	7.0	29.5	4,130	10,325	1.82	0
				52,850	49,350	1.30	82,775

SECTION 6N

949A	20.0	7.0	8.0	1,120	0	0.00	2,800
942A	20.0	7.0	25.0	3,500	0	0.00	8,700
935A	20.0	7.0	44.0	6,160	0	0.00	15,400
928A	20.0	7.0	60.0	8,400	0	.22	21,000
921A	20.0	7.0	52.0	7,280	0	.65	18,200
921B	20.0	7.0	22.0	3,080	0	.19	7,700
921C	20.0	7.0	14.5	2,030	0	.48	5,075
914A	20.0	7.0	38.0	5,320	13,300	.72	0
914B	20.0	7.0	24.5	3,430	0	.33	8,575
914C	20.0	7.0	24.5	3,430	0	.38	8,575
914D	20.0	7.0	26.5	3,710	0	.68	9,275
907A	20.0	7.0	27.5	3,850	9,625	1.36	0
907B	20.0	7.0	24.5	3,430	0	.52	8,575
907C	20.0	7.0	27.5	3,850	0	.53	9,625
907D	20.0	7.0	30.0	4,200	10,500	1.10	0
900A	20.0	7.0	30.0	4,200	0	.52	10,500
900B	20.0	7.0	30.0	4,200	10,500	1.14	0
				71,190	43,925	1.05	134,000

1988 DRILL PROGRAM
NUCLEUS DEPOSIT

SUMMARY OF OXIDE RESERVES

0.7 g/t GOLD CUTOFF

	ORE (tonnes)	GOLD GRADE (g/t)	GOLD CONTENT (g/t)	WASTE (tonnes)	WASTE/ ORE RATIO
2S	32,200	4.01	129,038	144,550	4.49
1S	32,550	1.68	54,572	88,900	2.73
0N	53,050	6.41	340,196	131,775	2.48
1N	43,925	.86	37,665	60,075	1.37
2N	59,850	.97	58,179	59,650	1.00
3N	15,855	.81	12,882	52,850	3.33
4N	45,550	1.39	63,372	54,775	1.20
5N	49,350	1.30	64,068	82,775	1.68
6N	43,925	1.05	46,186	134,000	3.05
TOTALS:	376,355	2.14	806,158	809,350	2.15

TABLE 14
1988 DRILL PROGRAM

NUCLEUS DEPOSIT
OXIDE RESERVES

1.0 G/T GOLD CUTOFF

CELL NO.	THICKNESS (m)	DEPTH (m)	LENGTH (m)	VOLUME (cu.m)	TONNES ORE	AV.GRADE (g/t)	TONNES WASTE
SECTION 2S							
953A	20.0	7.0	21.0	2,940	0	.27	7,350
928A	20.0	7.0	38.0	5,320	0	.23	13,300
921A	20.0	7.0	59.0	8,260	0	.24	20,650
914A	20.0	7.0	67.0	9,380	0	.06	23,450
907A	20.0	7.0	83.0	11,620	0	.09	29,050
900A	20.0	7.0	80.0	11,200	0	.25	28,000
893A	20.0	7.0	65.0	9,100	0	.46	22,750
886A	20.0	7.0	52.0	7,280	18,200	3.79	0
879A	20.0	7.0	40.0	5,600	14,000	4.29	0
				70,700	32,200	4.01	144,550
SECTION 1S							
935A	20.0	7.0	21.5	3,010	0	.41	7,525
928A	20.0	7.0	35.0	4,900	0	.28	12,250
921A	20.0	7.0	56.0	7,840	0	.08	19,600
914A	20.0	7.0	74.5	10,430	0	.24	26,075
907A	20.0	7.0	67.0	9,380	0	.37	23,450
900A	20.0	7.0	53.0	7,420	18,550	2.24	0
893A	20.0	7.0	40.0	5,600	0	.93	14,000
				48,580	18,550	2.24	102,900
SECTION 0N							
935A	20.0	7.0	21.0	2,940	0	.17	7,350
928A	20.0	7.0	32.0	4,480	0	.19	11,200
928B	20.0	7.0	16.5	2,310	0	.25	5,775
921A	20.0	7.0	24.5	3,430	0	1.81	0
921B	20.0	7.0	15.5	2,170	0	.33	5,425
921C	20.0	7.0	25.0	3,500	0	.26	8,750
914A	20.0	7.0	26.5	3,710	0	.53	9,275
914B	20.0	7.0	23.0	3,220	8,050	6.10	0
914C	20.0	7.0	23.5	3,290	8,225	1.63	0
914D	20.0	6.0	13.5	1,620	0	.89	4,050
907A	20.0	7.0	17.0	2,380	0	.25	5,950
907B	20.0	7.0	17.0	2,380	5,950	39.79	0
907C	20.0	7.0	26.0	3,640	0	.53	9,100
907D	20.0	7.0	23.5	3,290	0	.93	8,225
907E	20.0	7.0	19.0	2,660	0	.35	6,650
900A	20.0	7.0	21.0	2,940	0	.44	7,350
900B	20.0	7.0	30.0	4,200	0	.48	10,500
900C	20.0	7.0	26.5	3,710	0	.37	9,275
900D	20.0	7.0	30.5	4,270	0	.62	10,675
893B	20.0	7.0	39.5	5,530	0	.56	13,825
893C	20.0	7.0	30.5	4,270	0	.46	10,675
886B	20.0	7.0	53.0	7,420	18,550	1.60	0
				77,360	40,775	8.07	144,050
SECTION 1N							
928A	20.0	7.0	19.0	2,660	0	.43	6,650
928B	20.0	5.5	11.0	1,210	0	.45	3,025
921A	20.0	7.0	23.5	3,290	0	.79	8,225
921B	20.0	7.0	26.0	3,640	0	.82	9,100
914A	20.0	7.0	13.0	1,820	0	.38	4,550
914B	20.0	7.0	23.0	3,220	0	.33	8,050
914C	20.0	7.0	22.0	3,080	0	.34	7,700
914D	20.0	7.0	18.5	2,590	0	.39	6,475
907B	20.0	7.0	23.5	3,290	0	.40	8,225
907C	20.0	7.0	24.5	3,430	0	.81	8,575
907D	20.0	7.0	30.0	4,200	10,500	1.03	0
900A	20.0	7.0	14.0	1,960	0	.14	4,900
900B	20.0	7.0	21.5	3,010	0	.79	7,525
900C	20.0	7.0	30.0	4,200	0	.32	10,500
				41,600	10,500	1.03	93,500

SECTION 2N

935A	20.0	6.0	14.5	1,740	0	.14	4,350
928A	20.0	7.0	13.5	1,890	0	.21	4,725
928B	20.0	7.0	16.5	2,310	0	.37	5,775
921A	20.0	7.0	20.5	2,870	7,175	1.47	0
921B	20.0	7.0	28.0	3,920	0	.42	9,800
914B	20.0	7.0	31.5	4,410	0	.38	11,025
914C	20.0	7.0	23.5	3,290	0	.37	8,225
914D	20.0	7.0	16.0	2,240	5,600	1.03	0
907B	20.0	7.0	19.0	2,660	0	.23	6,650
907C	20.0	7.0	26.0	3,640	0	.35	9,100
907D	20.0	7.0	30.5	4,270	0	.81	10,675
900B	20.0	7.0	32.0	4,480	0	.77	11,200
900C	20.0	7.0	30.5	4,270	10,675	1.12	0
893B	20.0	7.0	41.5	5,810	0	.87	14,525
				47,800	23,450	1.21	96,050

SECTION 3N

935A	20.0	7.0	21.0	2,940	0	0.00	7,350
928A	20.0	7.0	35.0	4,900	0	.11	12,250
921A	20.0	7.0	29.5	4,130	0	.14	10,325
921B	20.0	7.0	19.5	2,730	0	.71	6,825
914A	20.0	7.0	20.0	2,800	0	.22	7,000
914B	20.0	7.0	25.8	3,612	0	.89	9,030
914C	20.0	7.0	21.5	3,010	0	.68	7,525
914D	20.0	7.0	24.0	3,360	0	.66	8,400
				27,482	0	0.00	68,705

SECTION 4N

935A	20.0	7.0	20.0	2,800	0	0.00	7,000
928A	20.0	7.0	34.0	4,760	0	.27	11,900
921A	20.0	7.0	21.0	2,940	0	.42	7,350
921B	20.0	7.0	24.0	3,360	0	.53	8,400
914A	20.0	7.0	8.5	1,190	0	.22	2,975
914B	20.0	7.0	26.5	3,710	0	.71	9,275
914C	20.0	7.0	21.0	2,940	0	.66	7,350
914D	20.0	6.0	28.5	3,420	0	.86	8,550
907A	20.0	7.0	22.5	3,150	7,875	1.06	0
907B	20.0	7.0	23.5	3,290	8,225	2.80	0
907C	20.0	7.0	28.0	3,920	0	.58	9,800
900A	20.0	7.0	33.5	4,690	11,725	1.54	0
				40,170	27,825	1.78	72,600

SECTION 5N

935A	20.0	7.0	20.0	2,800	0	0.00	7,000
928A	20.0	7.0	33.5	4,690	0	.88	11,725
921A	20.0	7.0	25.0	3,500	0	.68	8,750
921B	20.0	7.0	27.5	3,850	0	.31	9,625
914A	20.0	7.0	13.0	1,820	0	.13	4,550
914B	20.0	7.0	27.5	3,850	0	.82	9,625
914C	20.0	7.0	22.0	3,080	0	.25	7,700
914D	20.0	7.0	17.0	2,380	0	.27	5,950
907A	20.0	7.0	26.0	3,640	9,100	1.90	0
907B	20.0	7.0	25.0	3,500	0	.22	8,750
907C	20.0	7.0	24.0	3,360	0	.36	8,400
907D	20.0	7.0	29.0	4,060	0	.33	10,150
900A	20.0	7.0	34.0	4,760	0	.55	11,900
900C	20.0	7.0	24.5	3,430	8,575	1.14	0
893B	20.0	7.0	29.5	4,130	10,325	1.82	0
				52,850	28,000	1.64	104,125

SECTION 6N

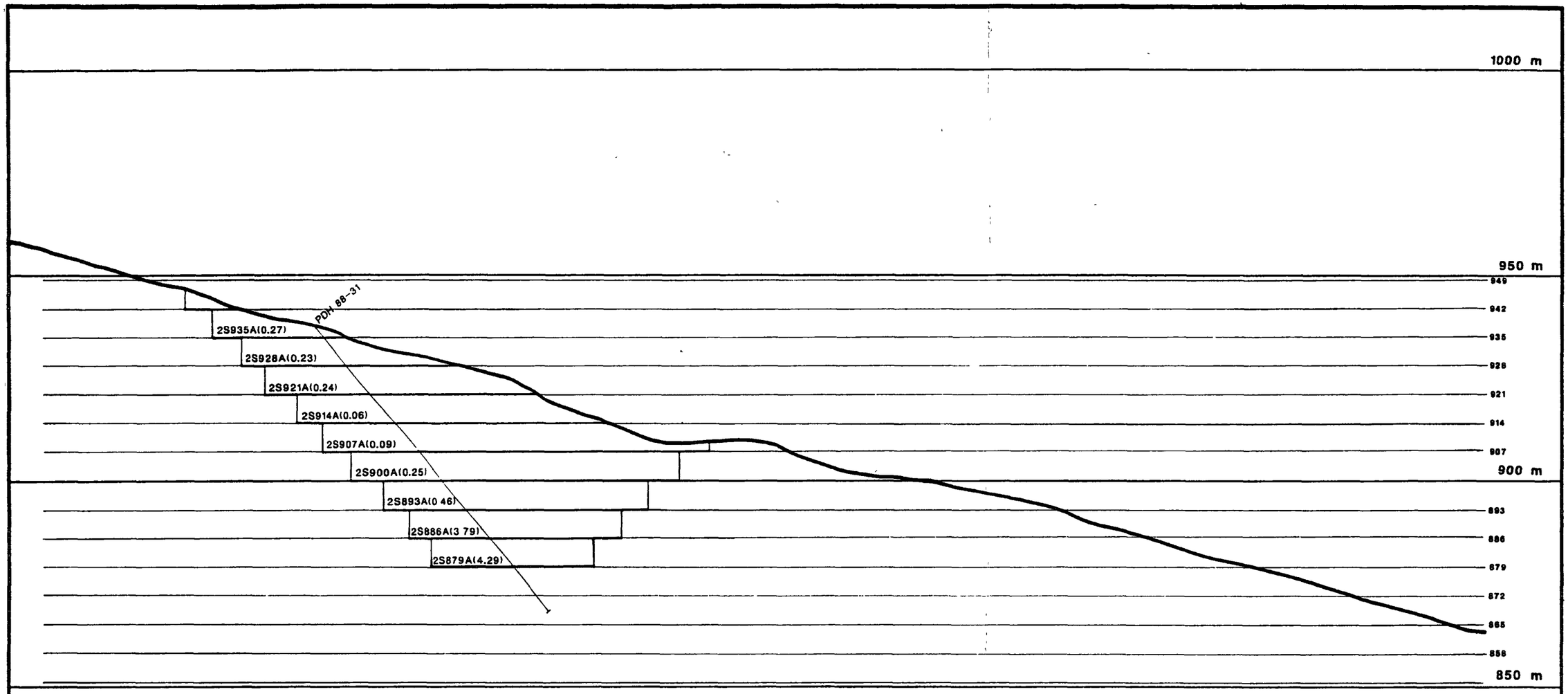
949A	20.0	7.0	8.0	1,120	0	0.00	2,800
942A	20.0	7.0	25.0	3,500	0	0.00	8,700
935A	20.0	7.0	44.0	6,160	0	0.00	15,400
928A	20.0	7.0	60.0	8,400	0	.22	21,000
921A	20.0	7.0	52.0	7,280	0	.65	18,200
921B	20.0	7.0	22.0	3,080	0	.19	7,700
921C	20.0	7.0	14.5	2,030	0	.48	5,075
914A	20.0	7.0	38.0	5,320	0	.72	13,300
914B	20.0	7.0	24.5	3,430	0	.33	8,575
914C	20.0	7.0	24.5	3,430	0	.38	8,575
914D	20.0	7.0	26.5	3,710	0	.68	9,275
907A	20.0	7.0	27.5	3,850	9,625	1.36	0
907B	20.0	7.0	24.5	3,430	0	.52	8,575
907C	20.0	7.0	27.5	3,850	0	.53	9,625
907D	20.0	7.0	30.0	4,200	10,500	1.10	0
900A	20.0	7.0	30.0	4,200	0	.52	10,500
900B	20.0	7.0	30.0	4,200	10,500	1.14	0
				71,190	30,625	1.20	147,300

1988 DRILL PROGRAM
NUCLEUS DEPOSIT

SUMMARY OF OXIDE RESERVES

1.0 g/t GOLD CUTOFF

	ORE (tonnes)	GOLD GRADE (g/t)	GOLD CONTENT (g/t)	WASTE (tonnes)	WASTE/ ORE RATIO
2S	32,200	4.01	129,038	144,550	4.49
1S	18,550	2.24	41,552	102,900	5.55
0N	40,775	8.07	328,942	144,050	3.53
1N	10,500	1.03	10,815	93,500	8.90
2N	23,450	1.21	28,271	96,050	4.10
3N	0	.00	0	68,705	ERR
4N	27,825	1.78	49,434	72,600	2.61
5N	28,000	1.64	45,857	104,125	3.72
6N	30,625	1.20	36,610	147,300	4.81
TOTALS:	211,925	3.16	670,520	973,780	4.59



800 m

LEGEND

4N928A	BLOCK NUMBER
(1.14)	BLOCK GRADE IN GRAMS PER TONNE
	SURFACE TRENCH SAMPLE (g/t)
PDH 88-8	YEAR OF DRILLING AND HOLE NUMBER

FACING NORTH

Figure N-4

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION 2S

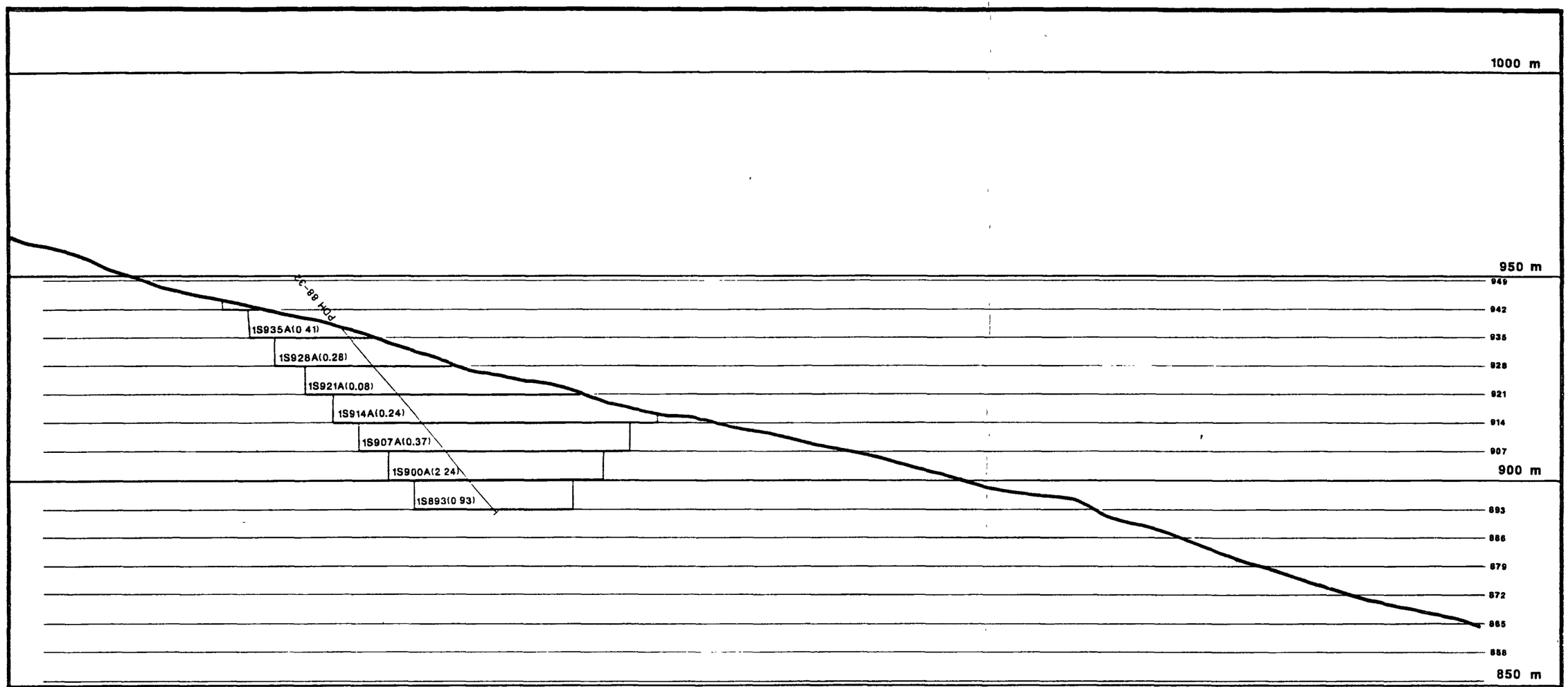
NUCLEUS DEPOSIT

REVENUE CREEK AREA, Y.T.

BIG CREEK RESOURCES LTD.
REXFORD MINERALS LTD.

0 20 40 60 80 100m

To accompany report dated February 1989



LEGEND

4N928A	BLOCK NUMBER
(1.14)	BLOCK GRADE IN GRAMS PER TONNE SURFACE TRENCH SAMPLE (g/t)
PDH 88-6	YEAR OF DRILLING AND HOLE NUMBER

FACING NORTH

Figure N-5

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION 1S

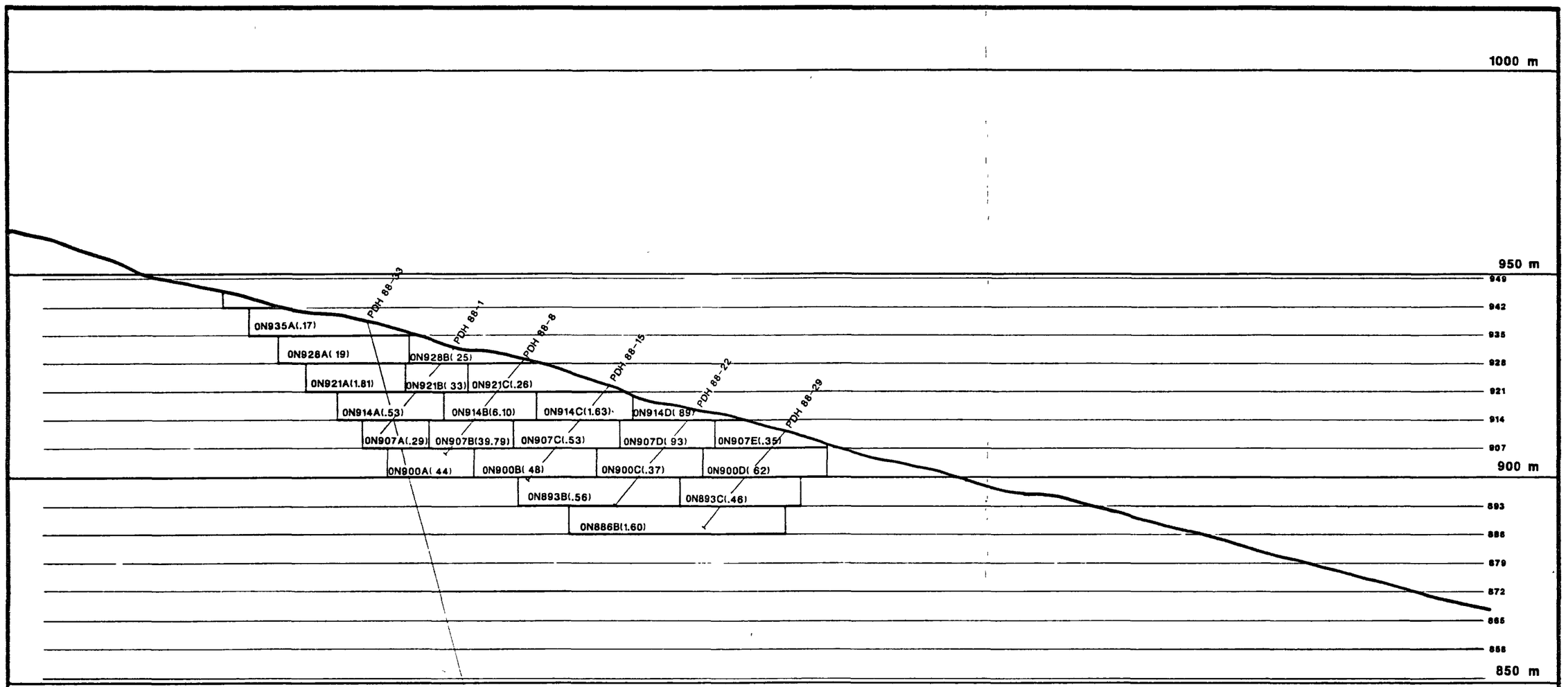
NUCLEUS DEPOSIT

REVENUE CREEK AREA, Y.T.

BIG CREEK RESOURCES LTD.
REXFORD MINERALS LTD.

0 20 40 60 80 100m

To accompany report dated February 1989



LEGEND

4N928A	BLOCK NUMBER
(1.14)	BLOCK GRADE IN GRAMS PER TONNE
	SURFACE TRENCH SAMPLE (g/t)
PDH 88-8	YEAR OF DRILLING AND HOLE NUMBER

FACING NORTH

Figure N-6

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION 0N

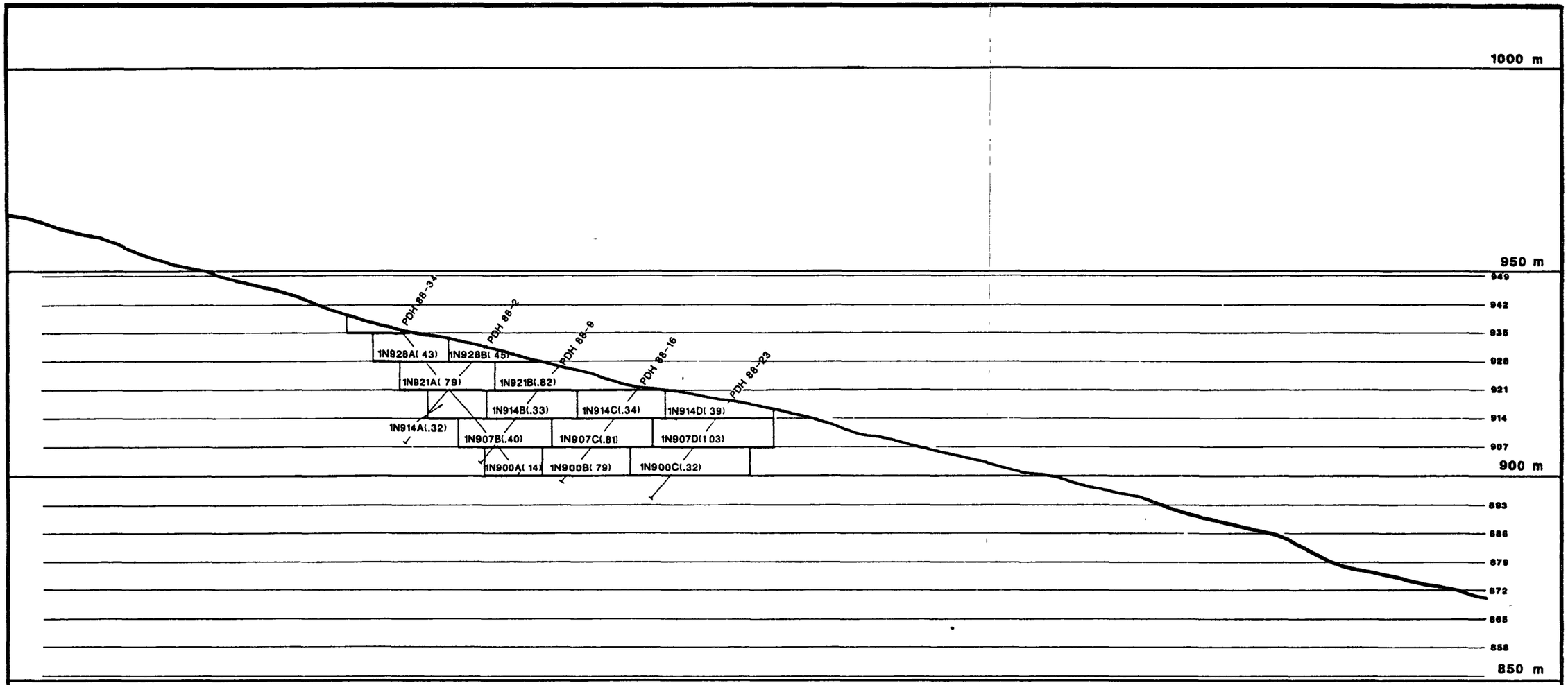
NUCLEUS DEPOSIT

REVENUE CREEK AREA, Y.T.

BIG CREEK RESOURCES LTD.
REXFORD MINERALS LTD.

0 20 40 60 80 100m

To accompany report dated February 1989



LEGEND

4N928A	BLOCK NUMBER
(1.14)	BLOCK GRADE IN GRAMS PER TONNE
	SURFACE TRENCH SAMPLE (g/t)
PDH 88-8	YEAR OF DRILLING AND HOLE NUMBER

FACING NORTH

Figure N-7

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION 1N

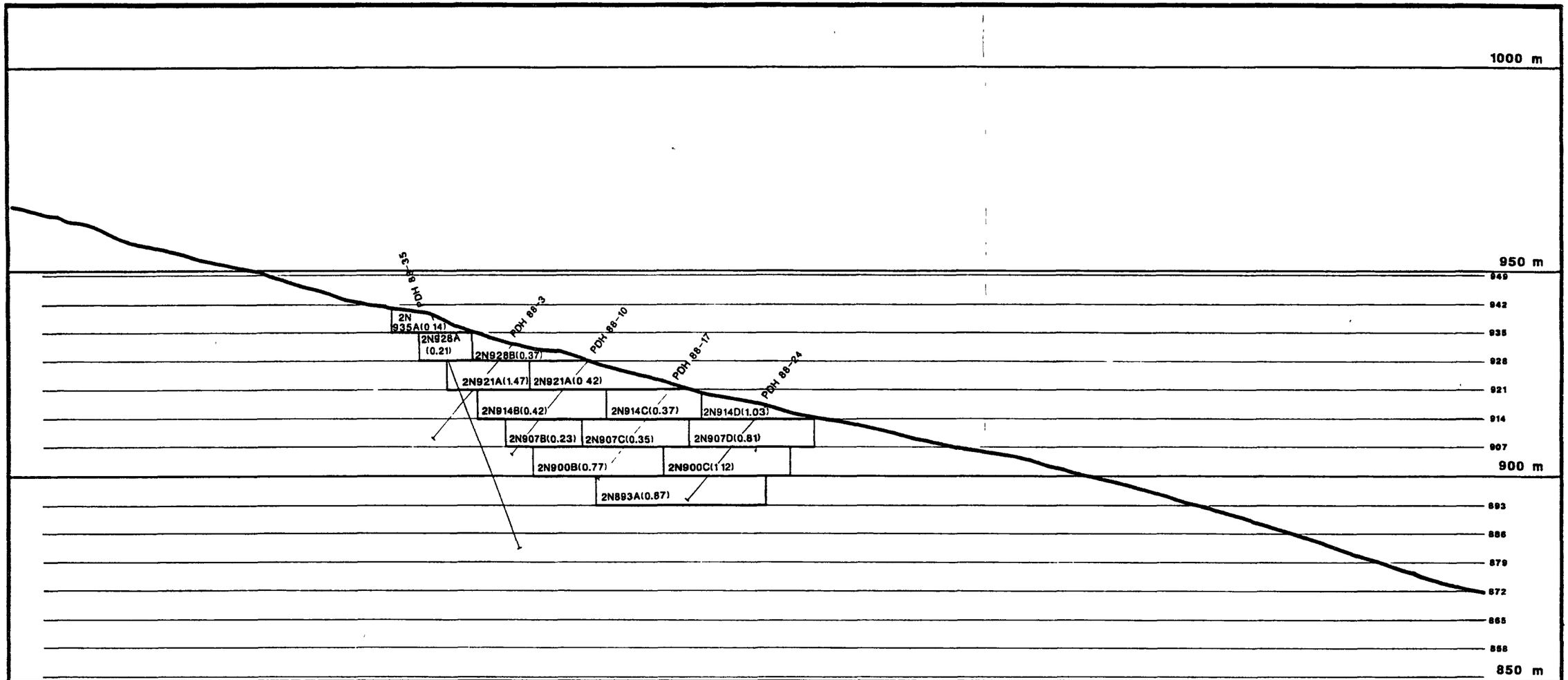
NUCLEUS DEPOSIT

REVENUE CREEK AREA, Y.T.

BIG CREEK RESOURCES LTD.
REXFORD MINERALS LTD.

0 20 40 60 80 100m

To accompany report dated February 1989



LEGEND

4N928A	BLOCK NUMBER
(1.14)	BLOCK GRADE IN GRAMS PER TONNE SURFACE TRENCH SAMPLE (g/t)
PDH 88-8	YEAR OF DRILLING AND HOLE NUMBER

FACING NORTH

Figure N-8

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION 2N

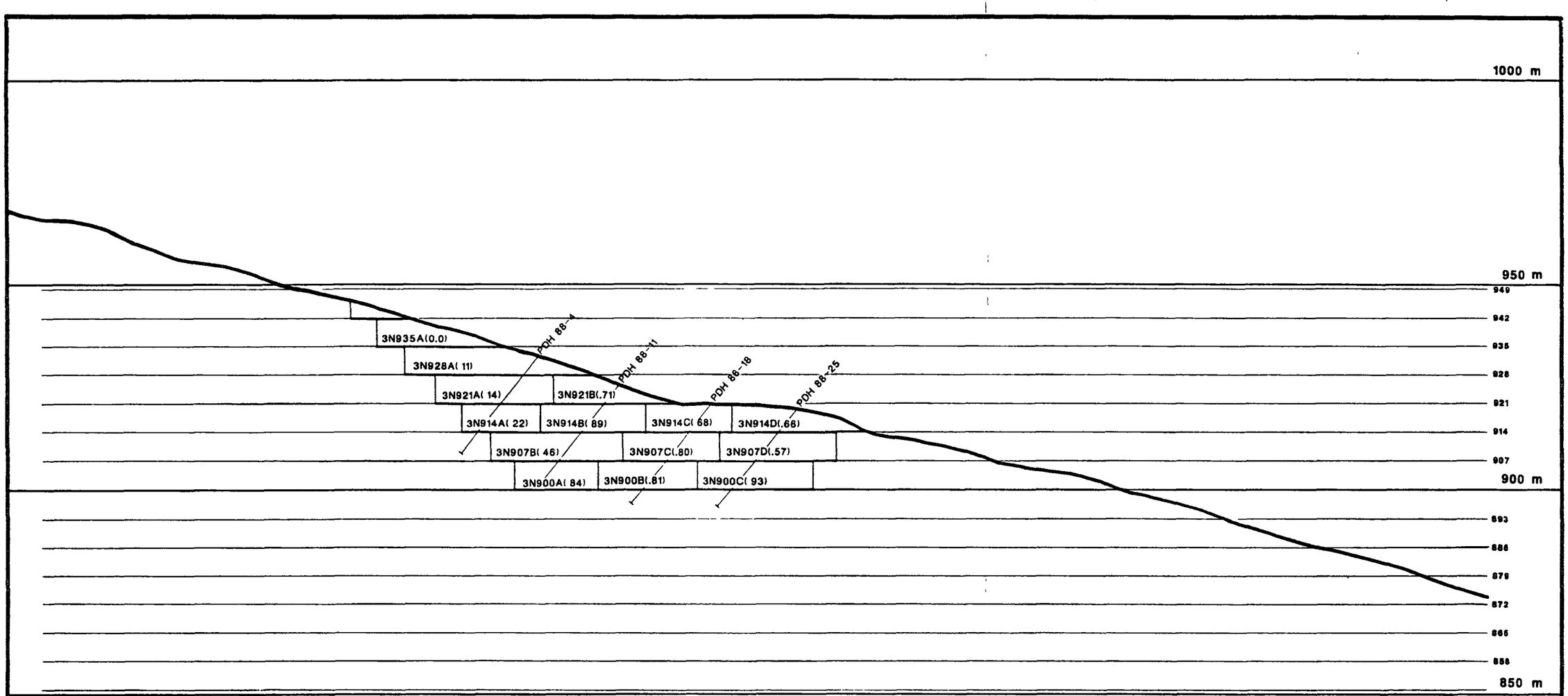
NUCLEUS DEPOSIT

REVENUE CREEK AREA, Y.T.

BIG CREEK RESOURCES LTD.
REXFORD MINERALS LTD.

0 20 40 60 80 100m

To accompany report dated February 1989



LEGEND

4N928A	BLOCK NUMBER
(1.14)	BLOCK GRADE IN GRAMS PER TONNE
	SURFACE TRENCH SAMPLE (g/t)
PDH 88-8	YEAR OF DRILLING AND HOLE NUMBER

FACING NORTH

Figure N-9

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION 3N

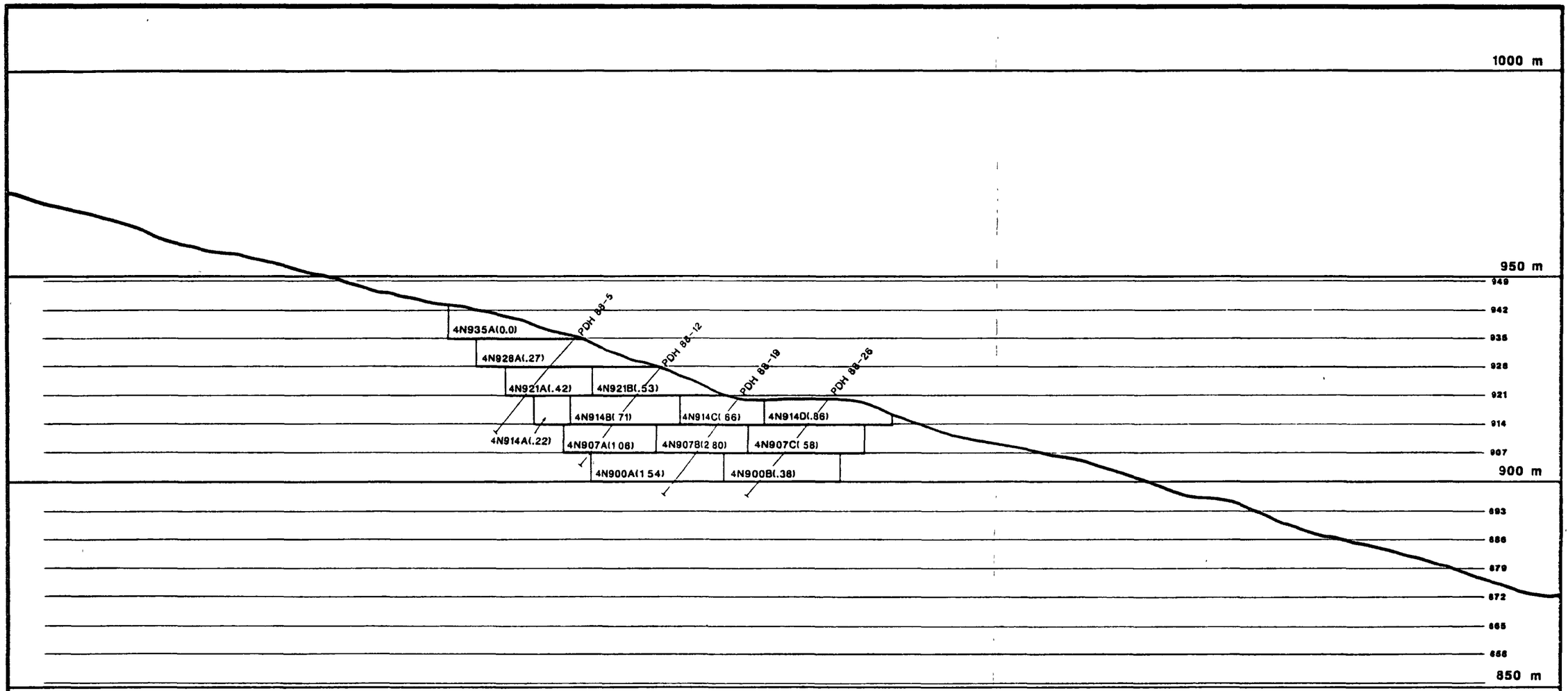
NUCLEUS DEPOSIT

REVENUE CREEK AREA, Y.T.

BIG CREEK RESOURCES LTD.
REXFORD MINERALS LTD.

0 20 40 60 80 100m

To accompany report dated February 1989



LEGEND

4N928A	BLOCK NUMBER
(1.14)	BLOCK GRADE IN GRAMS PER TONNE
	SURFACE TRENCH SAMPLE (g/t)
PDH 88-6	YEAR OF DRILLING AND HOLE NUMBER

FACING NORTH

Figure N-10

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION 4N

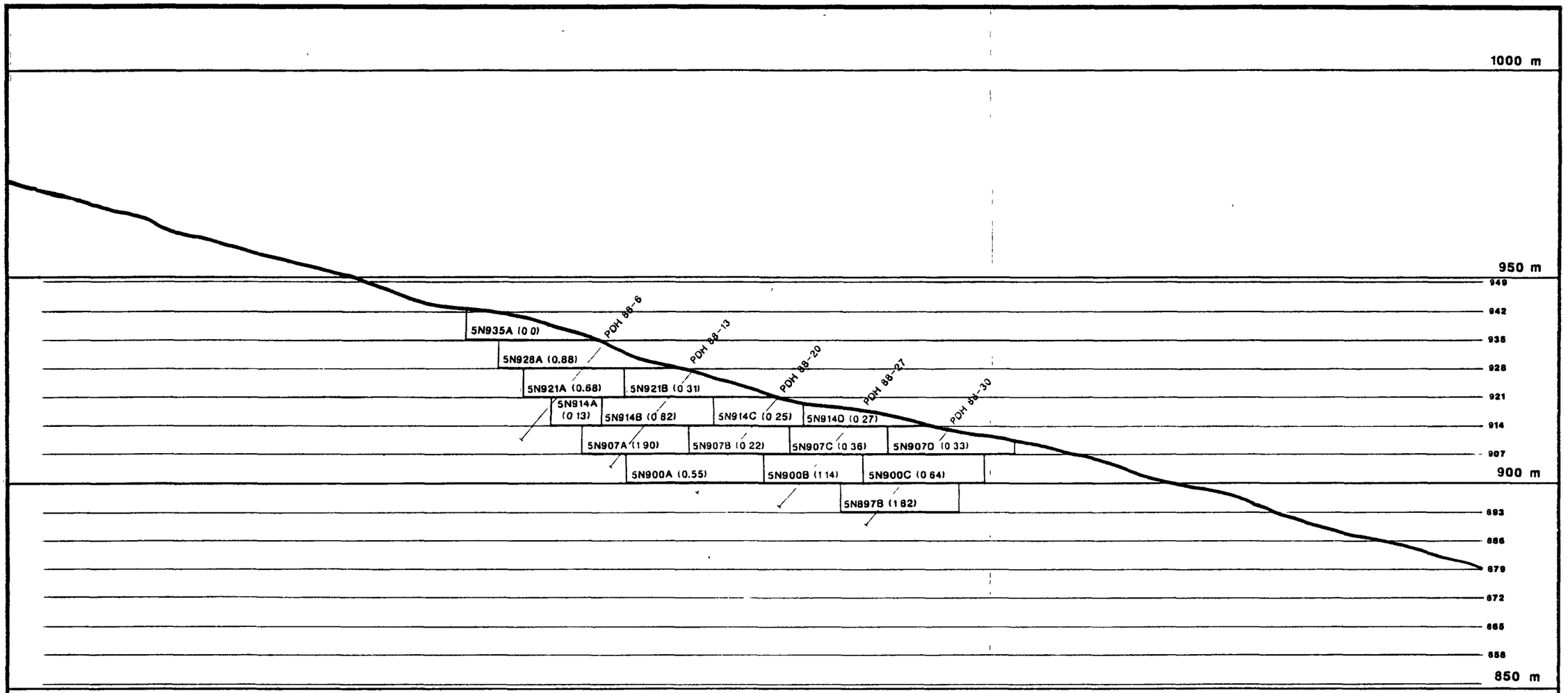
NUCLEUS DEPOSIT

REVENUE CREEK AREA, Y.T.

BIG CREEK RESOURCES LTD.
REXFORD MINERALS LTD.

0 20 40 60 80 100m

To accompany report dated February 1989



LEGEND

4N928A	BLOCK NUMBER
(1.14)	BLOCK GRADE IN GRAMS PER TONNE
	SURFACE TRENCH SAMPLE (g/t)
PDH 88-8	YEAR OF DRILLING AND HOLE NUMBER

FACING NORTH

Figure N–11

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION 5N

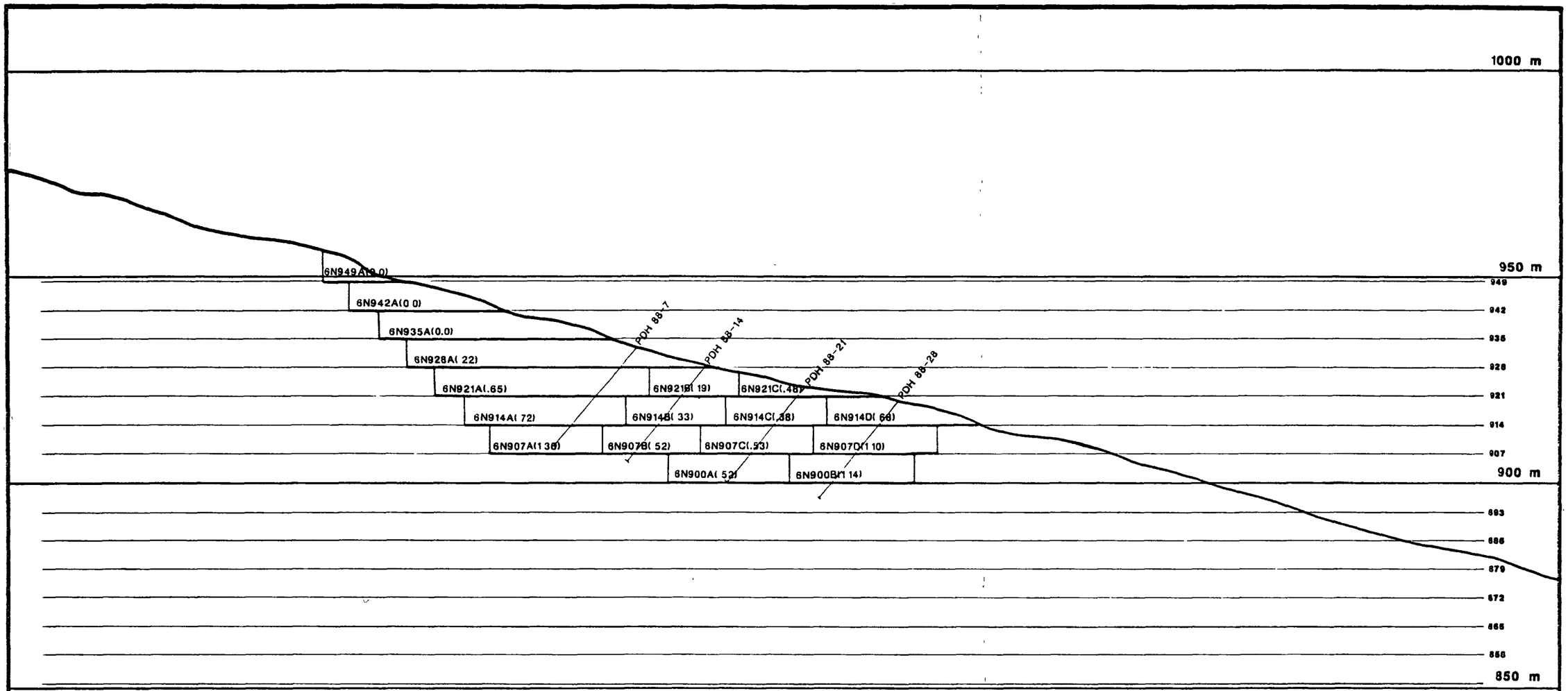
NUCLEUS DEPOSIT

REVENUE CREEK AREA, Y.T.

BIG CREEK RESOURCES LTD.
REXFORD MINERALS LTD.

0 20 40 60 80 100m

To accompany report dated February 1989



LEGEND

4N928A	BLOCK NUMBER
(1.14)	BLOCK GRADE IN GRAMS PER TONNE
	SURFACE TRENCH SAMPLE (g/t)
PDH 88-8	YEAR OF DRILLING AND HOLE NUMBER

FACING NORTH

Figure N-12

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION 6N

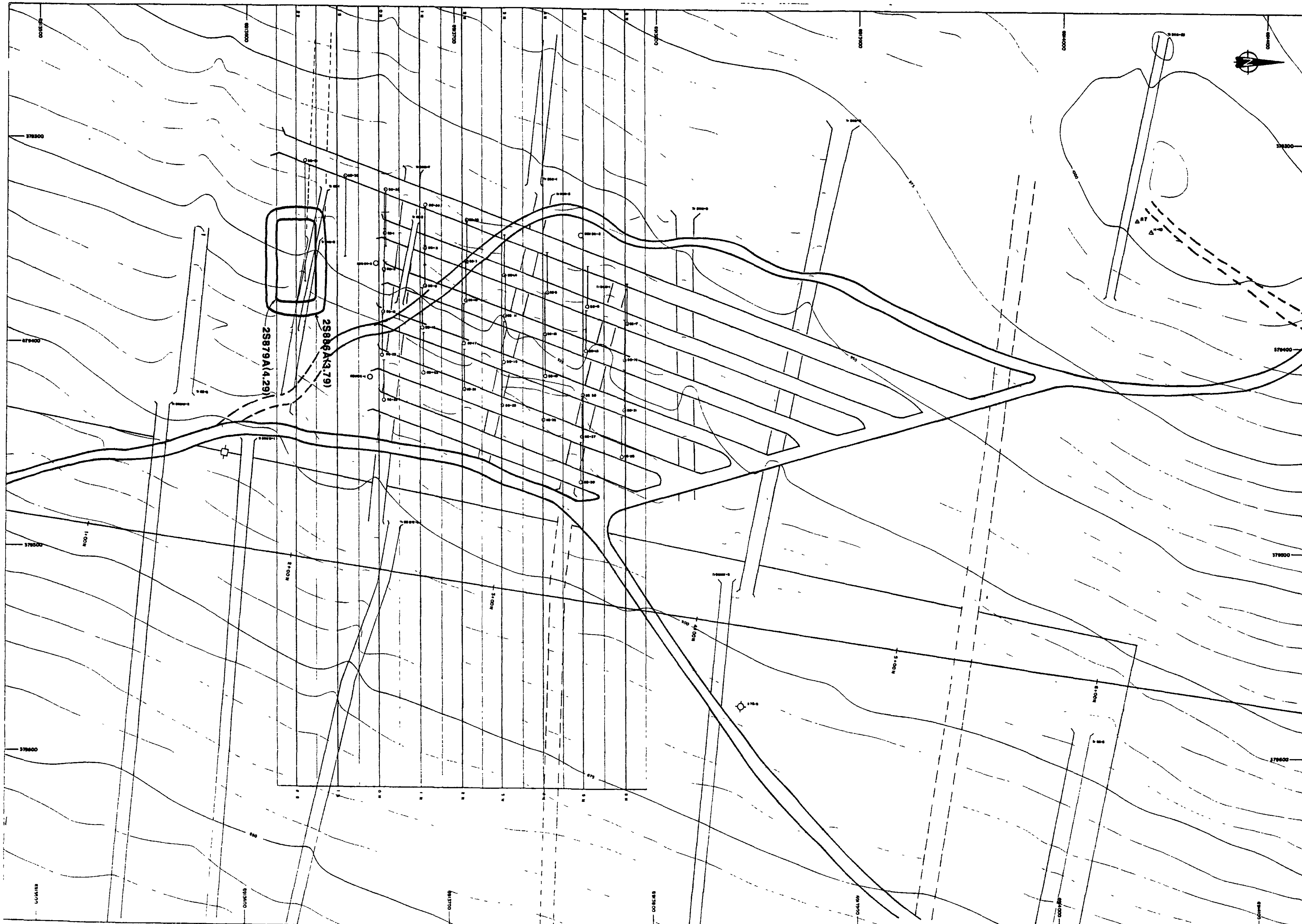
NUCLEUS DEPOSIT

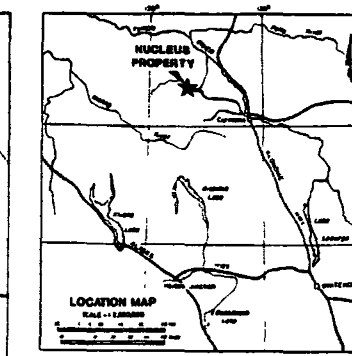
REVENUE CREEK AREA, Y.T.

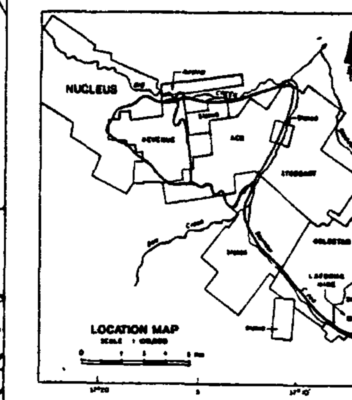
BIG CREEK RESOURCES LTD.
REXFORD MINERALS LTD.

0 20 40 60 80 100m

To accompany report dated February 1989







LEGEND

2S935A	CELL NUMBER
(0.24)	GRADE, GOLD g/t

Figure N-13

BENCH PLAN 879m and 886m

NUCLEUS PROPERTY

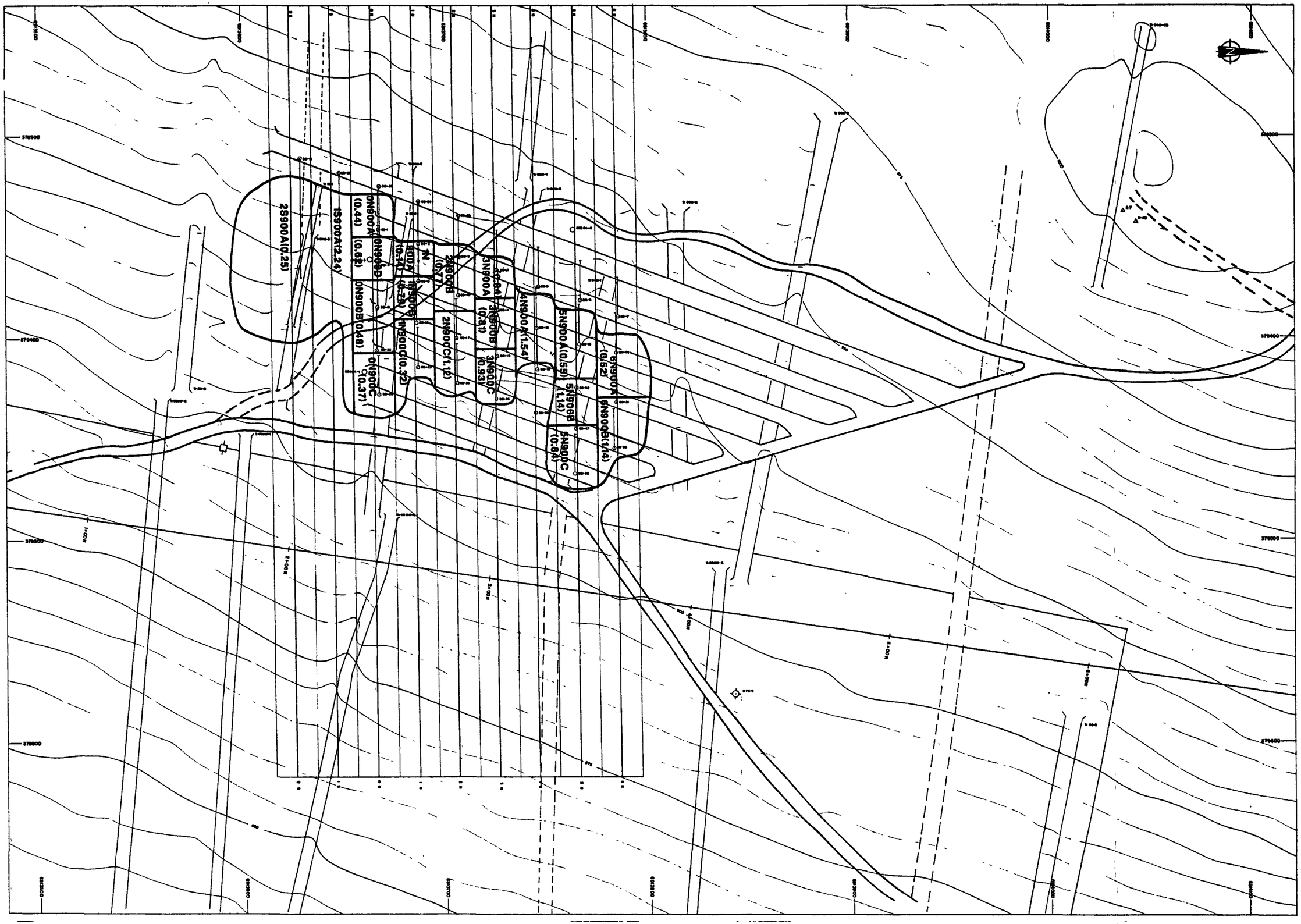
BIG CREEK JOINT VENTURE

Figure N–14

BENCH PLAN 893m

NUCLEUS PROPERTY

BIG CREEK JOINT VENTURE



LEGEND

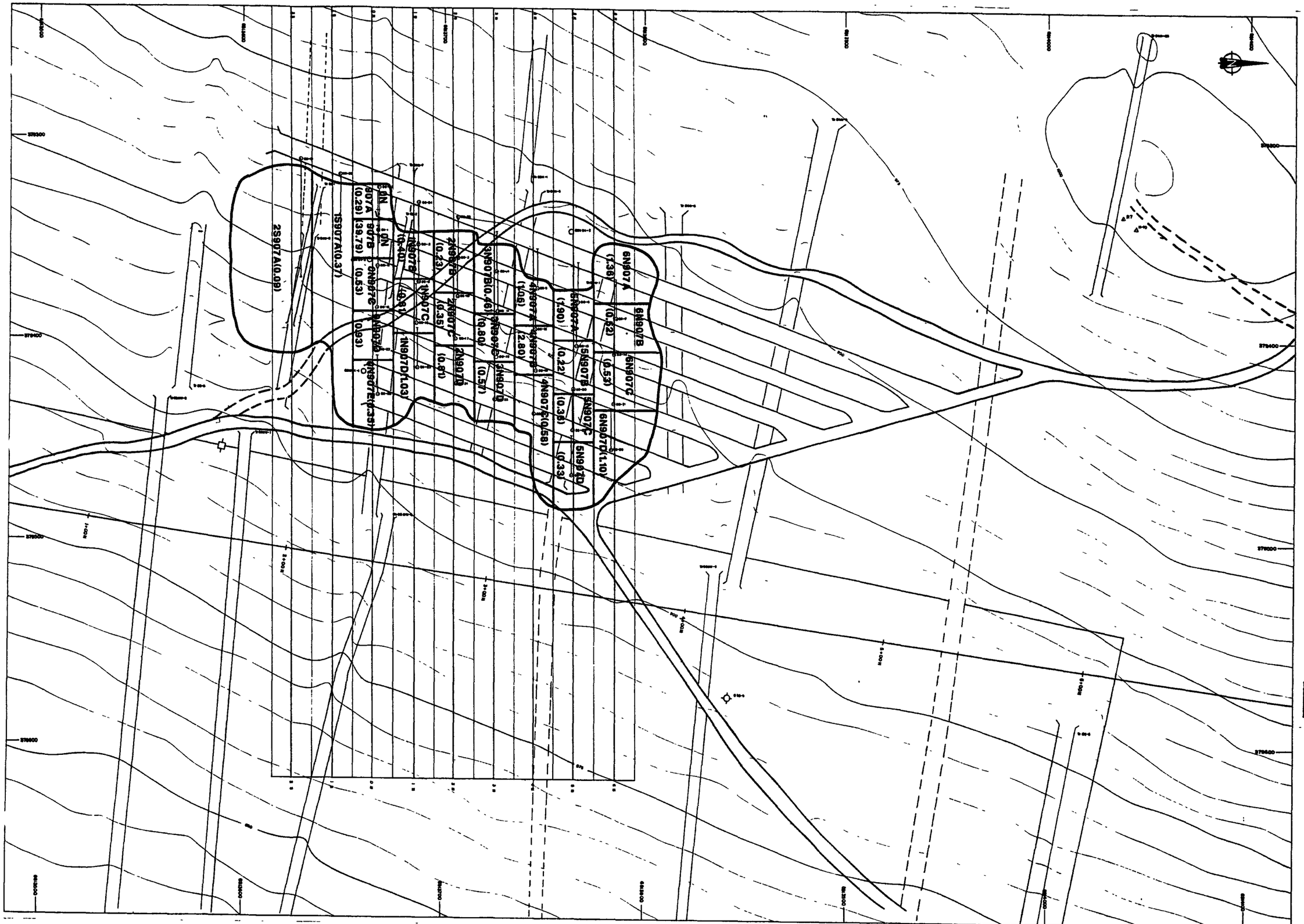
2S935A (0.24)	CELL NUMBER GRADE, GOLD g/t

Figure N-15

BENCH PLAN 900m

NUCLEUS PROPERTY

BIG CREEK JOINT VENTURE



LEGEND

2B935A (0.24)	CELL NUMBER GRADE, GOLD g/t

Figure N-16

BENCH PLAN 907m

NUCLEUS PROPERTY

BIG CREEK JOINT VENTURE

LEGEND

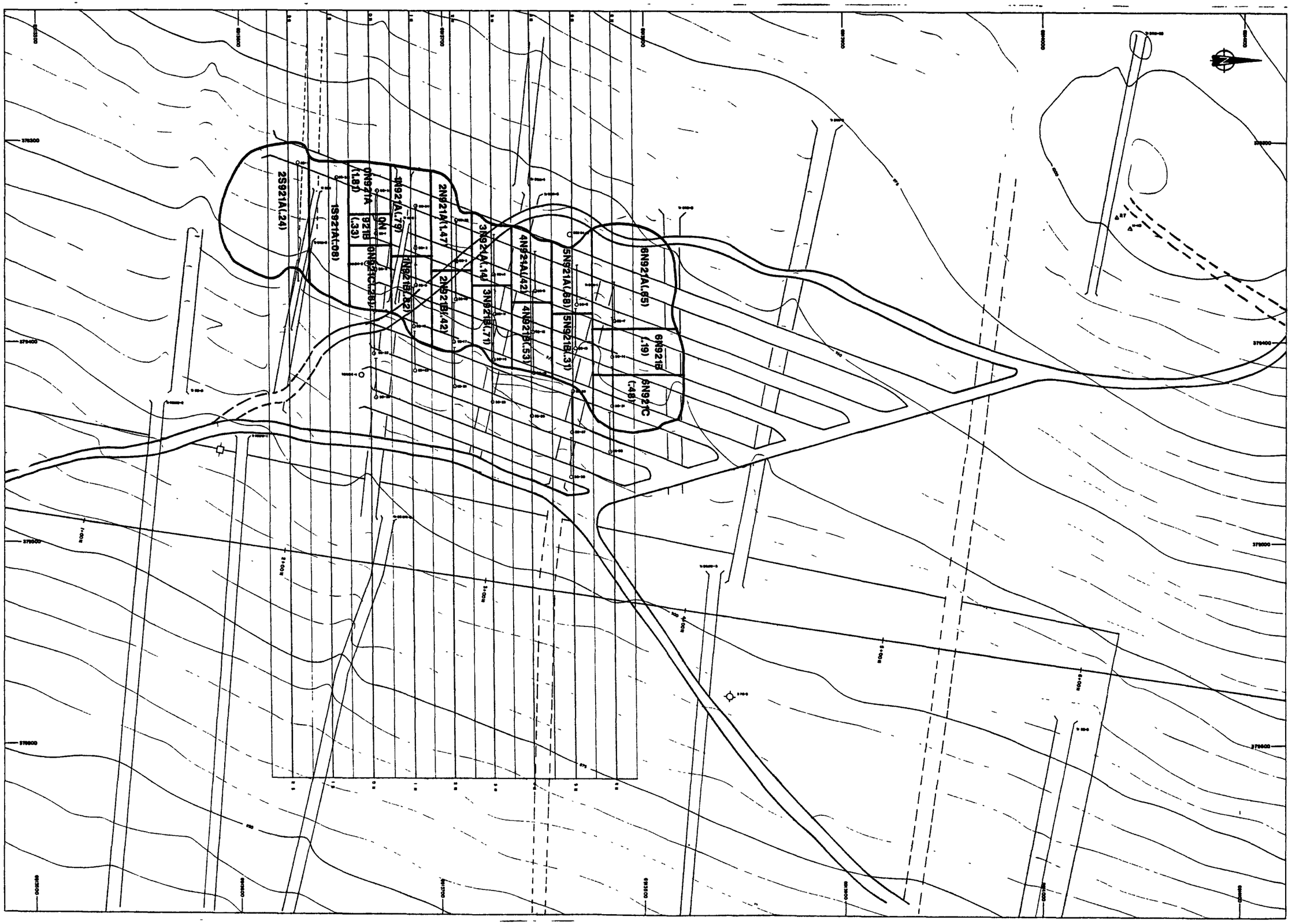
2S935A (0.24)	CELL NUMBER GRADE, GOLD g/t

Figure N-17

BENCH PLAN 914m

NUCLEUS PROPERTY

BIG CREEK JOINT VENTURE



LEGEND

2S935A (0.24)	CELL NUMBER
	GRADE, GOLD g/t

Figure N-18

BENCH PLAN 921m

NUCLEUS PROPERTY

BIG CREEK JOINT VENTURE

LEGEND

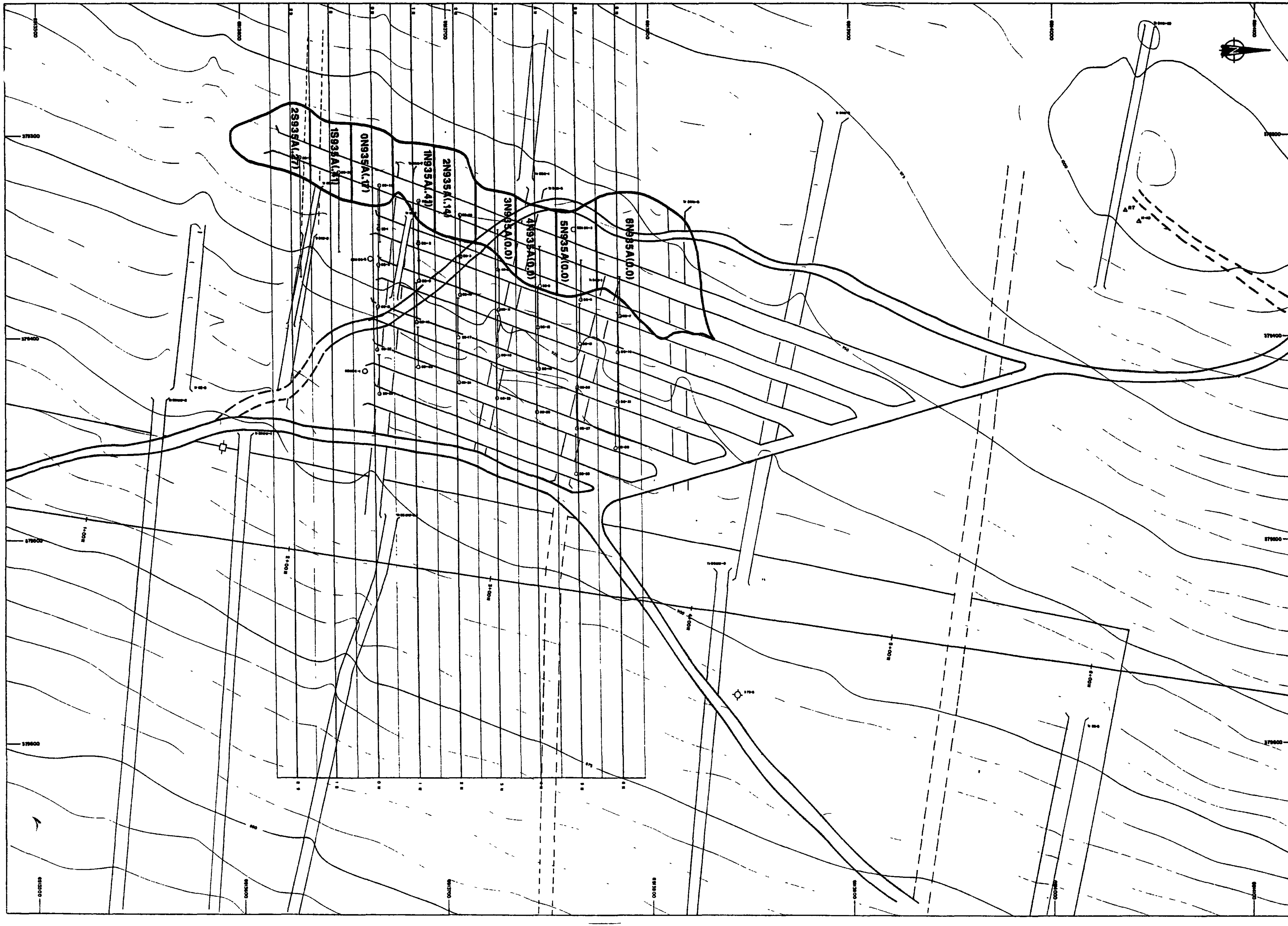
2S935A (0.24)	CELL NUMBER GRADE, GOLD g/t

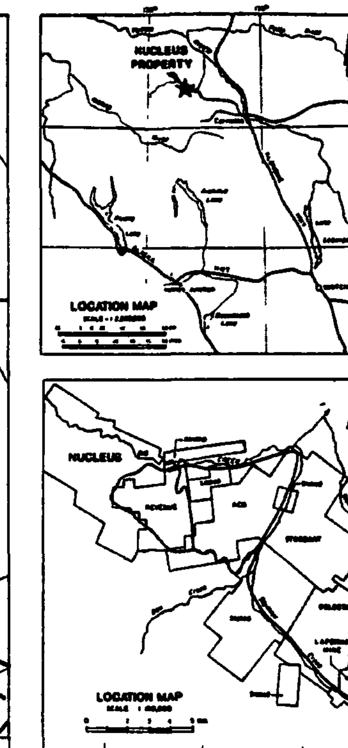
Figure N-19

BENCH PLAN 928m

NUCLEUS PROPERTY

BIG CREEK JOINT VENTURE





LEGEND

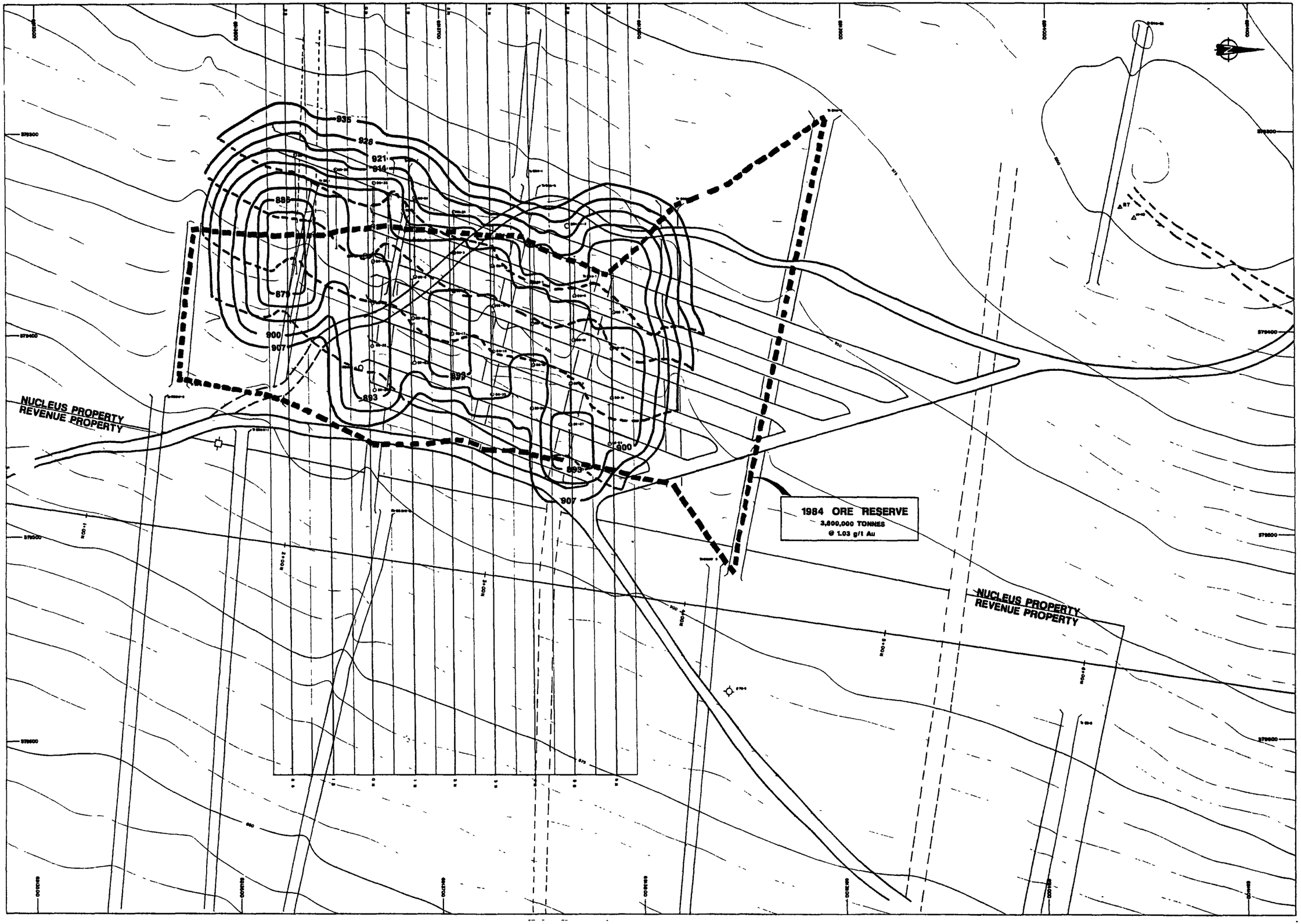
2S935A	CELL NUMBER
(O.24)	GRADE, GOLD g/t

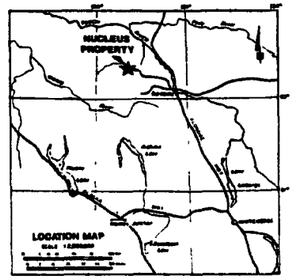
Figure N-20

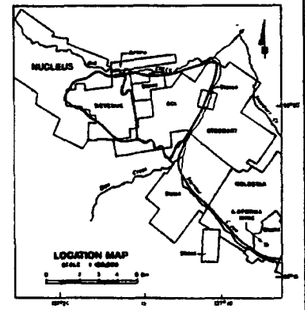
BENCH PLAN 935m

NUCLEUS PROPERTY

BIG CREEK JOINT VENTURE







LEGEND

2S935A (0.24)	CELL NUMBER GRADE, GOLD g/t

Figure N-21

COMPILATION BENCH PLAN

NUCLEUS PROPERTY

BIG CREEK JOINT VENTURE

FURTHER EXPLORATION

Proposed 1989 exploration is described below and has a total estimated cost of $300,000.

Drill Anomaly 2 Zone

The mineralization in the Anomaly 2 Zone defined by the 1988 drilling is open in all directions. The deposit should be drilled at a wider spacing to provide a general estimate of the probable maximum tonnage and grade which may be attained. The drill holes should be inclined and oriented in the same fashion as the first stage of the 1988 drilling but should penetrate to 80 m hole depths. Particular emphasis should be made to determine the extent of the higher grade material in the Stephen Vein. A minimum of 2500 m of rotary drilling would be required at a budgeted cost, including sampling and assaying, of $100,000.

Drill Anomaly 1 Zone

There has been no drilling on this deposit and it requires some exploration drilling to gauge its size and grade. The drill holes should be inclined and oriented in the same fashion as above. A minimum of 500 m of rotary drilling would be required at a budgeted cost of $20,000.

Bulldozer - Site Preparation and Trenching

The site preparation for the above drilling (assuming about 40 holes) would require about 150 hours of D8 bulldozer time. At least another 150 hours of bulldozer time should be devoted to cleaning out and preparing trenches away from Anomaly 1 and 2 Zones. This work is budgeted to cost $110,000.

Excavator - Trenching and Metallurgical Pits

The trenches prepared above will require final excavator work before sampling and a few pits will have to be dug to collect additional samples for metallurgical tests. About 100 hours will be needed at a budgeted cost of $40,000.

Metallurgical testing

Samples taken during 1988 require processing and other parts of the deposit should be sampled in 1989. Metallurgical tests are estimated at a minimum cost of $30,000.

APPENDIX I

DRILL HOLE STATISTICS

NUCLEUS 1988 DRILLING

DRILL HOLE STATISTICS
NUCLEUS 1988 DRILLING

DRILL HOLE	BEARING	DIST. (m)	NORTHING (m)	EASTING (m)	ELEV. (m)	DEPTH (m)	AZIMUTH (°)
88-1	201°34'12"	199.84	6913667.33	379346.69	940.54	30.58	270
88-2	201°53'24"	179.07	6913687.02	379353.40	941.18	30.58	270
88-3	202°22'57"	157.98	6913707.10	379360.00	941.56	30.58	270
88-4	202°50'51"	138.07	6913725.94	379366.55	942.38	30.58	270
88-5	203°02'06"	115.82	6913746.59	379374.84	942.34	30.58	270
88-6	203°45'36"	95.23	6913766.02	379381.79	942.69	30.58	270
88-7	204°03'00"	73.66	6913785.91	379390.14	941.74	30.58	270
88-8	201°46'19"	106.48	6913667.32	379364.03	934.69	30.58	270
88-9	201°42'31"	85.39	6913686.87	379371.94	934.58	30.58	270
88-10	202°25'40"	64.32	6913706.75	379378.98	935.05	30.58	270
88-11	203°13'37"	43.42	6913726.30	379386.40	936.47	30.58	270
88-12	201°42'37"	22.43	6913745.36	379395.22	937.25	30.58	270
88-13	91°54'19"	15.08	6913766.20	379403.52	936.43	30.58	270
88-14	25°45'37"	20.39	6913784.56	379412.38	935.92	30.58	270
88-15	202°13'47"	105.70	6913666.89	379384.80	930.42	30.58	270
88-16	202°28'59"	85.19	6913686.02	379392.21	930.38	30.58	270
88-17	202°50'41"	63.83	6913705.91	379400.01	930.16	30.58	270
88-18	202°00'41"	42.17	6913725.63	379408.99	930.43	30.58	270
88-19	205°06'16"	21.24	6913745.50	379415.78	930.36	30.58	270
88-20	93°06'07"	36.40	6913764.73	379424.79	930.91	30.58	270
88-21	19°30'02"	21.17	6913784.69	379431.86	930.11	30.58	270
88-22	201°49'49"	105.42	6913666.55	379405.96	923.55	30.58	270
88-23	201°25'25"	84.02	6913686.20	379414.47	923.82	30.58	270
88-24	201°16'46"	62.70	6913705.99	379422.41	924.89	30.58	270
88-25	201°13'13"	42.06	6913725.20	379429.94	926.20	30.58	270
88-26	202°20'58"	21.03	6913744.96	379437.16	926.52	30.58	270
88-27	92°18'28"	56.77	6913764.41	379445.16	927.13	30.58	270
88-28	26°48'25"	21.18	6913783.31	379454.71	926.81	30.58	270
88-29	205°57'30"	98.49	6913667.21	379427.65	920.41	30.58	270
88-30	336°56'44"	8.95	6913764.00	379467.26	920.46	30.58	270
88-31	289°56'44"	1878.24	6913628.97	379311.26	946.89	91.44	090
88-32	290°34'26"	1878.17	6913648.27	379318.46	946.24	60.96	090
88-33	291°12'38"	1878.69	6913667.95	379325.42	946.10	106.68	090
88-34	291°50'26"	1878.95	6913687.27	379332.76	946.04	45.72	090
88-35	292°29'14"	1879.72	6913707.20	379340.04	945.14	60.96	090

APPENDIX II

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Charles A. Main, geologist, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in Vancouver, British Columbia, hereby certify that:

1. I graduated from the University of British Columbia in 1971 with a B.Sc. majoring in Geological Sciences and Chemistry.
2. I have been actively engaged as a geologist in mineral exploration since 1971 and as a partner of Archer, Cathro & Associates (1981) Limited since June 1, 1981.
3. I have personally participated in or supervised the field work reported herein.

Charles A. Main.

Charles A. Main, B.Sc.

APPENDIX III

ASSAY CERTIFICATES

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

BOX 4127
WHITEHORSE, Y T
Y1A 3S9

Project NVC
Comments

Page No. 1
Tot. Pages 5
Date 12-AUG-88
Invoice # I-8820253
P.O. # :

CERTIFICATE OF ANALYSIS A8820253

SAMPLE DESCRIPTION	PREP CODE		Au oz/T
88-1 0-10	207	--	0.004
88-1 10-15	207	--	0.014
88-1 15-20	207	--	0.013
88-1 20-25	207	--	0.014
88-1 25-30	207	--	0.008
88-1 30-35	207	--	0.003
88-1 35-40	207	--	0.006
88-1 40-45	207	--	0.013
88-1 45-50	207	--	0.005
88-1 50-55	207	--	0.002
88-1 55-60	207	--	0.002
88-1 60-65	207	--	0.002
88-1 65-70	207	--	0.003
88-1 70-75	207	--	0.001
88-1 75-80	207	--	0.002
88-1 80-85	207	--	0.001
88-1 85-90	207	--	0.022
88-1 90-95	207	--	0.005
88-1 95-100	207	--	0.003
88-2 0-10	207	--	0.013
88-2 10-15	207	--	0.009
88-2 15-20	207	--	0.015
88-2 20-25	207	--	0.004
88-2 25-30	207	--	0.003
88-2 30-35	207	--	0.010
88-2 35-40	207	--	0.008
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88-2 45-50	207	--	0.004
88-2 50-55	207	--	0.024
88-2 55-60	207	--	0.005
88-2 60-65	207	--	0.009
88-2 65-70	207	--	0.013
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88-2 75-80	207	--	0.007
88-2 80-85	207	--	0.017
88-2 85-90	207	--	0.002
88-2 90-95	207	--	0.002
88-2 95-100	207	--	0.002
88-3 0-10	207	--	0.008
88-3 10-15	207	--	0.017

ALL ANALYTICAL DETERMINATIONS ARE PERFORMED OR SUPERVISED BY BC CERTIFIED ASSAYER

CERTIFICATION

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

BOX 4127
WHITEHORSE, Y T
Y1A 3S9

Project NVC
Comments.

Date 12-AUG-88
Invoice # I-8820253
P O #

CERTIFICATE OF ANALYSIS A8820253

SAMPLE DESCRIPTION	PREP CODE		Au oz/T
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88-3 95-100	207	---	0.012
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88-4 65-70	207	---	0.004
88-4 70-75	207	---	0.005
88-4 75-80	207	---	0.006
88-4 80-85	207	---	0.008
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88-5 0-10	207	---	0.009
88-5 10-15	207	---	0.007
88-5 15-20	207	---	0.012
88-5 20-25	207	---	0.006

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.
BOX 4127
WHITEHORSE, Y.T.
Y1A 3S9
Project : NVC
Comments:

Date :10-AUG-
Invoice #: I-88202
P.O. #

CERTIFICATE OF ANALYSIS A8820253

SAMPLE DESCRIPTION	PREP CODE	Au oz/T
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88-5 30-35	207 ---	0.020
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88-6 60-65	207 ---	0.008
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88-6 70-75	207 ---	0.002
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88-6 80-85	207 ---	0.002
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88-6 95-100	207 ---	0.003
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88-7 20-25	207 ---	0.016
88-7 25-30	207 ---	0.014
88-7 30-35	207 ---	0.026
88-7 35-40	207 ---	0.019

CERTIFICATE INCOMPLETE

CERTIFICATION _____

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
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BRITISH COLUMBIA, CANADA V7J 2C1
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BOX 4127
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Y1A 3S9

Project NVC
Comments

Date 12-AUG-88
Invoice # I-8820253
P.O. #

CERTIFICATE OF ANALYSIS A8820253

SAMPLE DESCRIPTION	PREP CODE		Au oz/T
88-7 40-45	207	---	0.034
88-7 45-50	207	---	0.011
88-7 50-55	207	---	0.013
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88-7 65-70	207	---	0.037
88-7 70-75	207	---	0.023
88-7 75-80	207	---	0.009
88-7 80-85	207	---	0.107
88-7 85-90	207	---	0.025
88-7 90-95	207	---	0.035
88-7 95-100	207	---	0.022
88-8 0-10	207	---	0.005
88-8 10-15	207	---	0.010
88-8 15-20	207	---	0.003
88-8 20-25	207	---	0.008
88-8 25-30	207	---	0.001
88-8 30-35	207	---	0.021
88-8 35-40	207	---	0.015
88-8 40-45	207	---	0.003
88-8 45-50	207	---	0.002
88-8 50-55	207	---	0.022
88-8 55-60	207	---	0.848
88-8 60-65	207	---	1.735
88-8 65-70	207	---	2.786
88-8 70-75	207	---	1.282
88-8 75-80	207	---	0.850
88-8 80-85	207	---	0.685
88-8 85-90	207	---	0.529
88-8 90-95	207	---	0.257
88-8 95-100	207	---	0.178
88-9 0-10	207	---	0.031
88-9 10-15	207	---	0.015
88-9 15-20	207	---	0.019
88-9 20-25	207	---	0.006
88-9 25-30	207	---	0.013
88-9 30-35	207	---	0.021
88-9 35-40	207	---	0.009
88-9 40-45	207	---	0.004
88-9 45-50	207	---	0.004

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BOX 4127
WHITEHORSE, Y T
Y1A 3S9

Project : NVC
Comments

Date : 12-AUG-88
Invoice # : I-8820253
P O # :

CERTIFICATE OF ANALYSIS A8820253

SAMPLE DESCRIPTION	PREP CODE	Au oz/T
88-9 50-55	207 --	0.008
88-9 55-60	207 --	0.003
88-9 60-65	207 --	0.001
88-9 65-70	207 --	0.003
88-9 70-75	207 --	0.006
88-9 75-80	207 --	0.010
88-9 80-85	207 --	0.003
88-9 85-90	207 --	0.003
88-9 90-95	207 --	0.006
88-9 95-100	207 --	0.003
88-10 0-10	207 --	0.012
88-10 10-15	207 --	0.009
88-10 15-20	207 --	0.024
88-10 20-25	207 --	0.013
88-10 25-30	207 --	0.003
88-10 30-35	207 --	0.008
88-10 35-40	207 --	0.006
88-10 40-45	207 --	0.011
88-10 45-50	207 --	0.020
88-10 50-55	207 --	0.015
88-10 55-60	207 --	0.007
88-10 60-65	207 --	0.005
88-10 65-70	207 --	0.007
88-10 70-75	207 --	0.012
88-10 75-80	207 --	0.004
88-10 80-85	207 --	0.008
88-10 85-90	207 --	0.004
88-10 90-95	207 --	0.024
88-10 95-100	207 --	0.012

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BOX 4127
WHITEHORSE, Y.T.
Y1A 3S9

Project . NVC
Comments:

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Tot. Pa. 5
Date :14-AUG-88
Invoice # .I-8820254
P.O # .

CERTIFICATE OF ANALYSIS A8820254

SAMPLE DESCRIPTION	PREP CODE		Au oz/T
88-11 0-10	207	--	0.026
88-11 10-15	207	--	0.010
88-11 15-20	207	--	0.011
88-11 20-25	207	--	0.015
88-11 25-30	207	--	0.014
88-11 30-35	207	--	0.021
88-11 35-40	207	--	0.064
88-11 40-45	207	--	0.030
88-11 45-50	207	--	0.017
88-11 50-55	207	--	0.012
88-11 55-60	207	--	0.020
88-11 60-65	207	--	0.007
88-11 65-70	207	--	0.012
88-11 70-75	207	--	0.013
88-11 75-80	207	--	0.004
88-11 80-85	207	--	0.021
88-11 85-90	207	--	0.007
88-11 90-95	207	--	0.080
88-11 95-100	207	--	0.011
88-12 0-10	207	--	0.025
88-12 10-15	207	--	0.008
88-12 15-20	207	--	0.015
88-12 20-25	207	--	0.005
88-12 25-30	207	--	0.007
88-12 30-35	207	--	0.020
88-12 35-40	207	--	0.017
88-12 40-45	207	--	0.032
88-12 45-50	207	--	0.006
88-12 50-55	207	--	0.042
88-12 55-60	207	--	0.035
88-12 60-65	207	--	0.024
88-12 65-70	207	--	0.037
88-12 70-75	207	--	0.043
88-12 75-80	207	--	0.019
88-12 80-85	207	--	0.027
88-12 85-90	207	--	0.008
88-12 90-95	207	--	0.019
88-12 95-100	207	--	0.015
88-13 0-10	207	--	0.010
88-13 10-15	207	--	0.009

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Project : NVC
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Total Pages : 5
Date : 10-AUG-88
Invoice # : I-882025
P.O. # :

CERTIFICATE OF ANALYSIS A8820254

SAMPLE DESCRIPTION	PREP CODE	Au oz/T
88-13 15-20	207 ---	0.008
88-13 20-25	207 ---	0.009
88-13 25-30	207 ---	0.013
88-13 30-35	207 ---	0.018
88-13 35-40	207 ---	0.015
88-13 40-45	207 ---	0.034
88-13 45-50	207 ---	0.014
88-13 50-55	207 ---	0.049
88-13 55-60	207 ---	0.042
88-13 60-65	207 ---	0.050
88-13 65-70	207 ---	0.072
88-13 70-75	207 ---	0.098
88-13 75-80	207 ---	0.027
88-13 80-85	207 ---	0.043
88-13 85-90	207 ---	0.009
88-13 90-95	207 ---	0.014
88-13 95-100	207 ---	0.072
88-14 0-10	207 ---	0.007
88-14 10-15	207 ---	0.008
88-14 15-20	207 ---	0.004
88-14 20-25	207 ---	0.003
88-14 25-30	207 ---	0.004
88-14 30-35	207 ---	0.003
88-14 35-40	207 ---	0.004
88-14 40-45	207 ---	0.010
88-14 45-50	207 ---	0.009
88-14 50-55	207 ---	0.006
88-14 55-60	207 ---	0.026
88-14 60-65	207 ---	0.019
88-14 65-70	207 ---	0.013
88-14 70-75	207 ---	0.021
88-14 75-80	207 ---	0.024
88-14 80-85	207 ---	0.009
88-14 85-90	207 ---	0.005
88-14 90-95	207 ---	0.011
88-14 95-100	207 ---	0.009
88-15 0-10	207 ---	0.061
88-15 10-15	207 ---	0.088
88-15 15-20	207 ---	0.025
88-15 20-25	207 ---	0.018

CERTIFICATE INCOMPLETE

CERTIFICATION : _____

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CERTIFICATE OF ANALYSIS A8820254

SAMPLE DESCRIPTION	PREP CODE		Au oz/T
88-15 25-30	207	--	0.056
88-15 30-35	207	--	0.024
88-15 35-40	207	--	0.029
88-15 40-45	207	--	0.013
88-15 45-50	207	--	0.015
88-15 50-55	207	--	0.016
88-15 55-60	207	--	0.009
88-15 60-65	207	--	0.010
88-15 65-70	207	--	0.011
88-15 70-75	207	--	0.036
88-15 75-80	207	--	0.006
88-15 80-85	207	--	0.005
88-15 85-90	207	--	0.019
88-15 90-95	207	--	0.006
88-15 95-100	207	--	0.006
88-16 0-10	207	--	0.009
88-16 10-15	207	--	0.016
88-16 15-20	207	--	0.007
88-16 20-25	207	--	0.009
88-16 25-30	207	--	0.009
88-16 30-35	207	--	0.008
88-16 35-40	207	--	0.006
88-16 40-45	207	--	0.011
88-16 45-50	207	--	0.079
88-16 50-55	207	--	0.018
88-16 55-60	207	--	0.019
88-16 60-65	207	--	0.022
88-16 65-70	207	--	0.016
88-16 70-75	207	--	0.053
88-16 75-80	207	--	0.023
88-16 80-85	207	--	0.008
88-16 85-90	207	--	0.016
88-16 90-95	207	--	0.070
88-16 95-100	207	--	0.005
88-17 0-10	207	--	0.010
88-17 10-15	207	--	0.009
88-17 15-20	207	--	0.024
88-17 20-25	207	--	0.005
88-17 25-30	207	--	0.012
88-17 30-35	207	--	0.006

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Date 14-AUG-88
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P.O #

CERTIFICATE OF ANALYSIS A8820254

SAMPLE DESCRIPTION	PREP CODE		Au oz/T
88-17 35-40	207	--	0.009
88-17 40-45	207	--	0.011
88-17 45-50	207	--	0.010
88-17 50-55	207	--	0.005
88-17 55-60	207	--	0.016
88-17 60-65	207	--	0.010
88-17 65-70	207	--	0.008
88-17 70-75	207	--	0.021
88-17 75-80	207	--	0.026
88-17 80-85	207	--	0 037
88-17 85-90	207	--	0.029
88-17 90-95	207	--	0.013
88-17 95-100	207	--	0.046
88-18 0-10	207	--	0.024
88-18 10-15	207	--	0.021
88-18 15-20	207	--	0.017
88-18 20-25	207	--	0.014
88-18 25-30	207	--	0.013
88-18 30-35	207	--	0.013
88-18 35-40	207	--	0.032
88-18 40-45	207	--	0.026
88-18 45-50	207	--	0.042
88-18 50-55	207	--	0.014
88-18 55-60	207	--	0.041
88-18 60-65	207	--	0.029
88-18 65-70	207	--	0.016
88-18 70-75	207	--	0.026
88-18 75-80	207	--	0.009
88-18 80-85	207	--	0.021
88-18 85-90	207	--	0.079
88-18 90-95	207	--	0.023
88-18 95-100	207	--	0.024
88-19 0-10	207	--	0.019
88-19 10-15	207	--	0.026
88-19 15-20	207	--	0.012
88-19 20-25	207	--	0.020
88-19 25-30	207	--	0.136
88-19 30-35	207	--	0.018
88-19 35-40	207	--	0.120
88-19 40-45	207	--	0.148

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Y1A 3S9
Project : NVC
Comments.

Date :14-AUG-88
Invoice # :I-8820254
P O # :

CERTIFICATE OF ANALYSIS A8820254

SAMPLE DESCRIPTION	PREP CODE		Au oz/T
88-19 45-50	207	--	0.039
88-19 50-55	207	--	0.029
88-19 55-60	207	--	0.038
88-19 60-65	207	--	0.012
88-19 65-70	207	--	0.038
88-19 70-75	207	--	0.023
88-19 75-80	207	--	0.050
88-19 80-85	207	--	0.108
88-19 85-90	207	--	0.033
88-19 90-95	207	--	0.019
88-19 95-100	207	--	0.016
88-20 0-10	207	--	0.003
88-20 10-15	207	--	0.011
88-20 15-20	207	--	0.012
88-20 20-25	207	--	0.008
88-20 25-30	207	--	0.007
88-20 30-35	207	--	0.011
88-20 35-40	207	--	0.003
88-20 40-45	207	--	0.007
88-20 45-50	207	--	0.005
88-20 50-55	207	--	0.005
88-20 55-60	207	--	0.008
88-20 60-65	207	--	0.010
88-20 65-70	207	--	0.017
88-20 70-75	207	--	0.011
88-20 75-80	207	--	0.018
88-20 80-85	207	--	0.032
88-20 85-90	207	--	0.072
88-20 90-95	207	--	0.017
88-20 95-100	207	--	0.016

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Project . NVC
Comments.

Date :11-AUG-88
Invoice # :I-8820255
P.O. # :

CERTIFICATE OF ANALYSIS A8820255

SAMPLE DESCRIPTION	PREP CODE		Au oz/T
88-21 0-10	207	--	0.014
88-21 10-15	207	--	0.010
88-21 15-20	207	--	0.011
88-21 20-25	207	--	0.014
88-21 25-30	207	--	0.011
88-21 30-35	207	--	0.008
88-21 35-40	207	--	0.012
88-21 40-45	207	--	0.010
88-21 45-50	207	--	0.017
88-21 50-55	207	--	0.017
88-21 55-60	207	--	0.007
88-21 60-65	207	--	0.025
88-21 65-70	207	--	0.016
88-21 70-75	207	--	0.005
88-21 75-80	207	--	0.012
88-21 80-85	207	--	0.025
88-21 85-90	207	--	0.006
88-21 90-95	207	--	0.037
88-21 95-100	207	--	0.006
88-22 0-10	207	--	0.026
88-22 10-15	207	--	0.033
88-22 15-20	207	--	0.053
88-22 20-25	207	--	0 006
88-22 25-30	207	--	0.013
88-22 30-35	207	--	0 036
88-22 35-40	207	--	0.021
88-22 40-45	207	--	0.002
88-22 45-50	207	--	0.012
88-22 50-55	207	--	0.012
88-22 55-60	207	--	0.015
88-22 60-65	207	--	0.014
88-22 65-70	207	--	0.009
88-22 70-75	207	--	0.004
88-22 75-80	207	--	0.014
88-22 80-85	207	--	0.013
88-22 85-90	207	--	0.042
88-22 90-95	207	--	0.010
88-22 95-100	207	--	0.014
88-23 0-10	207	--	0.009
88-23 10-15	207	--	0.016

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Project . NVC
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Date :11-AUG-88
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P.O. # :

CERTIFICATE OF ANALYSIS A8820255

SAMPLE DESCRIPTION	PREP CODE		Au oz/T
88-23 15-20	207	--	0.024
88-23 20-25	207	--	0.011
88-23 25-30	207	--	0.028
88-23 30-35	207	--	0.064
88-23 35-40	207	--	0.029
88-23 40-45	207	--	0.025
88-23 45-50	207	--	0.015
88-23 50-55	207	--	0.029
88-23 55-60	207	--	0.006
88-23 60-65	207	--	0.001
88-23 65-70	207	--	0.003
88-23 70-75	207	--	0.002
88-23 75-80	207	--	0.004
88-23 80-85	207	--	0.022
88-23 85-90	207	--	0.002
88-23 90-95	207	--	0.002
88-23 95-100	207	--	0.013
88-24 0-10	207	--	0.030
88-24 10-15	207	--	0.013
88-24 15-20	207	--	0.005
88-24 20-25	207	--	0.007
88-24 25-30	207	--	0.041
88-24 30-35	207	--	0.035
88-24 35-40	207	--	0.041
88-24 40-45	207	--	0.063
88-24 45-50	207	--	0.054
88-24 50-55	207	--	0.031
88-24 55-60	207	--	0.022
88-24 60-65	207	--	0.015
88-24 65-70	207	--	0.011
88-24 70-75	207	--	0.055
88-24 75-80	207	--	0.038
88-24 80-85	207	--	0.032
88-24 85-90	207	--	0.009
88-24 90-95	207	--	0.006
88-24 95-100	207	--	0.011
88-25 0-10	207	--	0.017
88-25 10-15	207	--	0.035
88-25 15-20	207	--	0.008
88-25 20-25	207	--	0.008

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P.O. # .

CERTIFICATE OF ANALYSIS A8820255

SAMPLE DESCRIPTION	PREP CODE		Au oz/T
88-25 25-30	207	---	0.010
88-25 30-35	207	---	0.032
88-25 35-40	207	---	0.009
88-25 40-45	207	---	0.029
88-25 45-50	207	---	0.012
88-25 50-55	207	---	0.007
88-25 55-60	207	---	0.004
88-25 60-65	207	---	0.042
88-25 65-70	207	---	0.029
88-25 70-75	207	---	0.034
88-25 75-80	207	---	0.046
88-25 80-85	207	---	0.030
88-25 85-90	207	---	0.017
88-25 90-95	207	---	0.006
88-25 95-100	207	---	0.022
88-26 0-10	207	---	0.031
88-26 10-15	207	---	0.015
88-26 15-20	207	---	0.024
88-26 20-25	207	---	0.023
88-26 25-30	207	---	0.011
88-26 30-35	207	---	0.007
88-26 35-40	207	---	0.024
88-26 40-45	207	---	0.034
88-26 45-50	207	---	0.014
88-26 50-55	207	---	0.005
88-26 55-60	207	---	0.006
88-26 60-65	207	---	0.007
88-26 65-70	207	---	0.012
88-26 70-75	207	---	0.012
88-26 75-80	207	---	0.015
88-26 80-85	207	---	0.015
88-26 85-90	207	---	0.012
88-26 90-95	207	---	0.006
88-26 95-100	207	---	0.039
88-27 0-10	207	---	0.008
88-27 10-15	207	---	0.026
88-27 15-20	207	---	0.006
88-27 20-25	207	---	0.002
88-27 25-30	207	---	0.016
88-27 30-35	207	---	0.009

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CERTIFICATION : A. J. Lowe

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Comments

Date :11-AUG-88
Invoice # .I-8820255
P.O. # :

CERTIFICATE OF ANALYSIS A8820255

SAMPLE DESCRIPTION	PREP CODE		Au oz/T
88-27 35-40	207	--	0.004
88-27 40-45	207	--	0.008
88-27 45-50	207	--	0.016
88-27 50-55	207	--	0.030
88-27 55-60	207	--	0.043
88-27 60-65	207	--	0.084
88-27 65-70	207	--	0.019
88-27 70-75	207	--	0.024
88-27 75-80	207	--	0.013
88-27 80-85	207	--	0.013
88-27 85-90	207	--	0.009
88-27 90-95	207	--	0.004
88-27 95-100	207	--	0.014
88-28 0-10	207	--	0.010
88-28 10-15	207	--	0.017
88-28 15-20	207	--	0.043
88-28 20-25	207	--	0.048
88-28 25-30	207	--	0.011
88-28 30-35	207	--	0.041
88-28 35-40	207	--	0.026
88-28 40-45	207	--	0.025
88-28 45-50	207	--	0.029
88-28 50-55	207	--	0.044
88-28 55-60	207	--	0.047
88-28 60-65	207	--	0.071
88-28 65-70	207	--	0.033
88-28 70-75	207	--	0.006
88-28 75-80	207	--	0.023
88-28 80-85	207	--	0.020
88-28 85-90	207	--	0.016
88-28 90-95	207	--	0.015
88-28 95-100	207	--	0.015
88-29 0-10	207	--	0.014
88-29 10-15	207	--	0.003
88-29 15-20	207	--	0.002
88-29 20-25	207	--	0.010
88-29 25-30	207	--	0.030
88-29 30-35	207	--	0.044
88-29 35-40	207	--	0.010
88-29 40-45	207	--	0.012

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CERTIFICATION : _____

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PHONE (604) 984-0221

ARCHER CATHRO & ASSOC (1981) LTD.

BOX 4127
WHITEHORSE, Y.T.
Y1A 3S9

Project NVC
Comments.

Date :11-AUG-88
Invoice # :I-8820255
P.O. # :

CERTIFICATE OF ANALYSIS A8820255

SAMPLE DESCRIPTION	PREP CODE		Au oz/T
88-29 45-50	207	--	0.011
88-29 50-55	207	--	0.014
88-29 55-60	207	--	0.022
88-29 60-65	207	--	0.022
88-29 65-70	207	--	0.012
88-29 75-80	207	--	0.120
88-29 80-85	207	--	0.043
88-29 85-90	207	--	0.013
88-29 90-95	207	--	0.044
88-29 95-100	207	--	0.013
88-30 0-10	207	--	0.008
88-30 10-15	207	--	0.006
88-30 15-20	207	--	0.010
88-30 20-25	207	--	0.016
88-30 25-30	207	--	0.016
88-30 30-35	207	--	0.011
88-30 35-40	207	--	0.009
88-30 40-45	207	--	0.036
88-30 45-50	207	--	0.018
88-30 50-55	207	--	0.022
88-30 55-60	207	--	0.019
88-30 60-65	207	--	0.015
88-30 65-70	207	--	0.080
88-30 70-75	207	--	0.047
88-30 75-80	207	--	0.132
88-30 80-85	207	--	0.026
88-30 85-90	207	--	0.032
88-30 90-95	207	--	0.011
88-30 95-100	207	--	0.007

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PHONE (604) 984-0221

ARCHER CATHRO & ASSOC (1981) LTD.

BOX 4127
WHITEHORSE, Y T.
Y1A 3S9

Project NUCI BUS
Comments

Date 16-SEP-88
Invoice # I-8823178
P.O. # NONE

CERTIFICATE OF ANALYSIS A8823178

SAMPLE DESCRIPTION	PREP CODE		Au oz/T
88-31 0-10	207	--	0.008
88-31 10-15	207	--	0.007
88-31 15-20	207	--	0.014
88-31 20-25	207	--	0.005
88-31 25-30	207	--	0.003
88-31 30-35	207	--	0.005
88-31 35-40	207	--	0.025
88-31 40-45	207	--	0.015
88-31 45-50	207	--	0.002
88-31 50-55	207	--	0.002
88-31 55-60	207	--	0.002
88-31 60-65	207	--	0.001
88-31 65-70	207	--	0.002
88-31 70-75	207	--	0.002
88-31 75-80	207	--	0.001
88-31 80-85	207	--	0.004
88-31 85-90	207	--	0.001
88-31 90-95	207	--	0.001
88-31 95-100	207	--	0.002
88-31 100-105	207	--	0.003
88-31 105-110	207	--	0.005
88-31 110-115	207	--	0.002
88-31 115-120	207	--	0.002
88-31 120-125	207	--	0.002
88-31 125-130	207	--	0.002
88-31 130-135	207	--	0.002
88-31 135-140	207	--	0.002
88-31 140-145	207	--	0.011
88-31 145-150	207	--	0.010
88-31 150-155	207	--	0.007
88-31 155-160	207	--	0.012
88-31 160-165	207	--	0.012
88-31 165-170	207	--	0.012
88-31 170-175	207	--	0.026
88-31 175-180	207	--	0.005
88-31 180-185	207	--	0.026
88-31 190-195	207	--	0.003
88-31 195-200	207	--	0.002
88-31 200-205	207	--	0.011
88-31 205-210	207	--	0.003

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CERTIFICATION : B. Thwaites

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PHONE (604) 984-0221

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BOX 4127
WHITEHORSE, Y.T.
Y1A 3S9

Project NUCLEUS
Comments

Date :16-SEP-88
Invoice # :I-8823178
P.O. # :NONE

CERTIFICATE OF ANALYSIS A8823178

SAMPLE DESCRIPTION	PREP CODE	Au oz/T
88-31 210-215	207 --	0.512
88-31 215-220	207 --	0.133
88-31 220-225	207 --	0.025
88-31 225-230	207 --	0.632
88-31 230-235	207 --	0.016
88-31 235-240	207 --	0.022
88-31 240-245	207 --	0.023
88-31 245-250	207 --	0.033
88-31 250-255	207 --	0.014
88-31 255-260	207 --	0.027
88-31 260-265	207 --	0.034
88-31 265-270	207 --	0.007
88-31 270-275	207 --	0.006
88-31 275-280	207 --	0.011
88-31 280-285	207 --	0.008
88-31 285-290	207 --	0.016
88-31 290-295	207 --	0.011
88-31 295-300	207 --	0.014
88-32 0-10	207 --	0.012
88-32 10-15	207 --	0.019
88-32 15-20	207 --	0.010
88-32 20-25	207 --	0.006
88-32 25-30	207 --	0.007
88-32 30-35	207 --	0.003
88-32 35-40	207 --	0.004
88-32 40-45	207 --	0.002
88-32 45-50	207 --	0.005
88-32 50-55	207 --	0.002
88-32 55-60	207 --	0.002
88-32 60-65	207 --	0.002
88-32 65-70	207 --	0.001
88-32 70-75	207 --	0.002
88-32 75-80	207 --	0.001
88-32 80-85	207 --	0.015
88-32 85-90	207 --	0.008
88-32 90-95	207 --	0.010
88-32 95-100	207 --	0.006
88-32 100-105	207 --	0.002
88-32 105-110	207 --	0.004
88-32 110-115	207 --	0.010

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ARCHER CATHRO & ASSOC. (1981) LTD
BOX 4127
WHITEHORSE, Y.T.
Y1A 3S9
Project NUCLEUS
Comments

CERTIFICATE OF ANALYSIS A8823178

SAMPLE DESCRIPTION	PREP CODE		Au oz/T
88-32 115-120	207	---	0.024
88-32 120-125	207	---	0.006
88-32 125-130	207	---	0.019
88-32 130-135	207	---	0.077
88-32 135-140	207	---	0.132
88-32 140-145	207	---	0.034
88-32 145-150	207	---	0.016
88-32 150-155	207	---	0.055
88-32 155-160	207	---	0.077
88-32 160-165	207	---	0.059
88-32 165-170	207	---	0.017
88-32 170-175	207	---	0.016
88-32 175-180	207	---	0.018
88-32 180-185	207	---	0.038
88-32 185-190	207	---	0.031
88-32 190-195	207	---	0.011
88-32 195-200	207	---	0.011
88-33 0-10	207	---	0.005
88-33 10-15	207	---	0.011
88-33 15-20	207	---	0.009
88-33 30-35	207	---	0.007
88-33 35-40	207	---	0.010
88-33 40-45	207	---	0.023
88-33 45-50	207	---	0.052
88-33 50-55	207	---	0.147
88-33 55-60	207	---	0.032
88-33 60-65	207	---	0.018
88-33 65-70	207	---	0.015
88-33 70-75	207	---	0.061
88-33 75-80	207	---	0.030
88-33 80-85	207	---	0.032
88-33 85-90	207	---	0.005
88-33 90-95	207	---	0.006
88-33 95-100	207	---	0.019
88-33 100-105	207	---	0.004
88-33 105-110	207	---	0.004
88-33 110-115	207	---	0.001
88-33 115-120	207	---	0.051
88-33 120-125	207	---	0.005
88-33 125-130	207	---	0.003

ALL ASSAY DETERMINATIONS ARE PERFORMED OR SUPERVISED BY B.C. CERTIFIED ASSAYERS

CERTIFICATION : B. Stewart

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BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

ARCHER CATHRO & ASSOC (1981) LTD
BOX 4127
WHITEHORSE, Y.T.
Y1A 3S9
Project : NUCLEUS
Comments:

Date : 16-SEP-88
Invoice # : I-8823178
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8823178

SAMPLE DESCRIPTION	PREP CODE		Au oz/T
88-33 130-135	207	--	0.010
88-33 135-140	207	--	0.013
88-33 140-145	207	--	0.009
88-33 145-150	207	--	0.010
88-33 150-155	207	--	0.006
88-33 155-160	207	--	0.003
88-33 160-165	207	--	0.001
88-33 165-170	207	--	0.001
88-33 170-175	207	--	0.040
88-33 175-180	207	--	0.032
88-33 185-190	207	--	0.020
88-33 190-195	207	--	0.004
88-33 195-200	207	--	0.003
88-33 200-205	207	--	0.001
88-33 205-210	207	--	0.002
88-33 210-215	207	--	0.004
88-33 215-220	207	--	0.003
88-33 220-225	207	--	0.002
88-33 225-230	207	--	0.010
88-33 230-235	207	--	0.015
88-33 235-240	207	--	0.020
88-33 240-245	207	--	0.012
88-33 245-250	207	--	0.009
88-33 250-255	207	--	0.005
88-33 255-260	207	--	0.010
88-33 260-265	207	--	0.004
88-33 265-270	207	--	0.006
88-33 270-275	207	--	0.007
88-33 275-280	207	--	0.004
88-33 285-290	207	--	0.011
88-33 290-295	207	--	0.008
88-33 295-300	207	--	0.008
88-33 300-305	207	--	0.001
88-33 305-310	207	--	0.009
88-33 310-315	207	--	0.005
88-33 315-320	207	--	0.003
88-33 320-325	207	--	0.002
88-33 325-330	207	--	0.005
88-33 330-335	207	--	0.010
88-33 335-340	207	--	0.004

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CERTIFICATION : B. Swaite

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BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

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BOX 4127
WHITEHORSE, Y.T.
Y1A 3S9
Project NUCLEUS
Comments:

Date .16-SEP-88
Invoice # :I-8823178
P O. # :NONE

CERTIFICATE OF ANALYSIS A8823178

SAMPLE DESCRIPTION	PREP CODE		Au oz/T
88-33 340-345	207	--	0.016
88-33 345-350	207	--	0.015
88-34 0-10	207	--	0.022
88-34 10-15	207	--	0.008
88-34 15-20	207	--	0.007
88-34 20-25	207	--	0.006
88-34 25-30	207	--	0.010
88-34 30-35	207	--	0.040
88-34 39-40	207	--	0.124
88-34 40-45	207	--	0.004
88-34 45-50	207	--	0.047
88-34 50-55	207	--	0.010
88-34 55-60	207	--	0.004
88-34 60-65	207	--	0.012
88-34 65-70	207	--	0.017
88-34 70-75	207	--	0.004
88-34 75-80	207	--	0.005
88-34 80-85	207	--	0.029
88-34 85-90	207	--	0.007
88-34 90-95	207	--	0.008
88-34 95-100	207	--	0.006
88-34 100-105	207	--	0.005
88-34 105-110	207	--	0.018
88-34 110-115	207	--	0.068
88-34 115-120	207	--	0.014
88-34 120-125	207	--	0.009
88-34 125-130	207	--	0.003
88-34 130-135	207	--	0.003
88-34 135-140	207	--	0.003
88-34 140-145	207	--	0.002
88-34 145-150	207	--	0.004
88-35 0-10	207	--	0.004
88-35 10-15	207	--	0.002
88-35 15-20	207	--	0.005
88-35 20-25	207	--	0.007
88-35 25-30	207	--	0.003
88-35 30-35	207	--	0.014
88-35 35-40	207	--	0.016
88-35 40-45	207	--	0.007
88-35 45-50	207	--	0.005

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CERTIFICATION .

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BRITISH COLUMBIA CANADA V7J-2C1
PHONE (604) 984-0221

RCHER CATHRO & ASSOC (1981) LTD
BOX 4127
WHITEHORSE, Y T
Y1A 3S9
Project NUCLEUS
Comments

Page N 1
Tot. P 6
Date 16-SEP-88
Invoice # I-8823178
P.O. # NONE

CERTIFICATE OF ANALYSIS A8823178

SAMPLE DESCRIPTION	PREP CODE		Au oz/T
88-35 50-55	207	---	0.010
88-35 55-60	207	---	0.006
88-35 60-65	207	---	0.006
88-35 65-70	207	---	0.006
88-35 70-75	207	---	0.007
88-35 75-80	207	---	0.008
88-35 80-85	207	---	0.014
88-35 85-90	207	---	0.010
88-35 90-95	207	---	0.004
88-35 95-100	207	---	0 029
88-35 100-105	207	---	0.004
88-35 110-115	207	---	0.006
88-35 115-120	207	---	0.006
88-35 120-125	207	---	0.010
88-35 125-130	207	---	0.006
88-35 130-135	207	---	0.007
88-35 135-140	207	---	0.002
88-35 140-145	207	---	0.001
88-35 145-150	207	---	0.002
88-35 150-155	207	---	0.004
88-35 155-160	207	---	0 001
88-35 160-165	207	---	0 002
88-35 165-170	207	---	0 004
88-35 170-175	207	---	0.005
88-35 175-180	207	---	0.004
88-35 180-185	207	---	0.020
88-35 185-190	207	---	0.011
88-35 190-195	207	---	0.010
88-35 195-200	207	---	0.003

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CERTIFICATION J. Kwait

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BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.

BOX 4127
WHITEHORSE, Y T.
Y1A 3S9

Project . NVC
Comments:

Page 1
Tot. . . . 1
Date :12-SEP-88
Invoice # :I-8822695
P.O. # :NONE

CERTIFICATE OF ANALYSIS A8822695

SAMPLE DESCRIPTION	PREP CODE		Cu %	Ag oz/T
88-8 50-55	214	--	0.05	0.19
88-8 55-60	214	--	<0.01	0.15
88-8 60-65	214	--	<0.01	0.25
88-8 65-70	214	--	<0.01	0.33
88-8 70-75	214	--	<0.01	0.20
88-8 75-80	214	--	0.01	0.15
88-8 80-85	214	--	<0.01	0.13
88-8 85-90	214	--	0.03	0.12
88-8 90-95	214	--	0.02	0.07
88-8 95-100	214	--	0.05	0.07

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CERTIFICATION : A. J. Iwaite

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ARCHER CATHRO & ASSOC. (1981) LTD.
BOX 4127, 3125 3RD AVE.
WHITEHORSE, Y.T.
Y1A 3S9
Project : REVENUE Nuggets
Comments:

1/10

Page No. : 1-A
Tot. Pages: 2
Date : 11-JUL-88
Invoice # : I-8817999
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8817999

SAMPLE DESCRIPTION	PREP CODE		Au g/tonne	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
88-1 10-15	207	238	0.10	2.00	0.6	110	290	< 0.5	4	0.19	1.0	7	50	210	4.44	< 10	3	0.45	30	0.43	26
88-2 35-40	207	238	0.34	1.29	0.2	205	140	< 0.5	24	0.03	< 0.5	5	39	188	5.23	< 10	< 1	0.41	30	0.40	7
88-2 65-70	207	238	0.21	4.70	0.4	145	290	< 0.5	4	0.09	< 0.5	9	76	289	5.85	10	1	1.28	40	1.42	14
88-4 60-65	207	238	0.14	1.88	0.6	80	100	< 0.5	30	0.01	< 0.5	5	11	181	3.70	< 10	< 1	0.55	20	0.65	8
88-4 90-95	207	238	0.03	1.02	0.2	295	70	< 0.5	8	< 0.01	0.5	< 1	10	57	1.74	< 10	< 1	0.24	20	0.04	3
88-5 0-10	207	238	0.24	0.61	1.4	2040	150	< 0.5	14	0.06	2.0	5	19	251	3.82	< 10	1	0.36	20	0.09	6
88-5 55-60	207	238	0.69	0.64	0.2	250	70	< 0.5	22	< 0.01	< 0.5	< 1	14	72	2.36	< 10	< 1	0.33	10	0.08	4
88-6 45-50	207	238	0.41	0.61	0.2	1210	90	< 0.5	24	0.02	< 0.5	< 1	12	56	2.00	< 10	1	0.31	20	0.02	3
88-6 90-95	207	238	0.03	0.73	0.2	70	100	< 0.5	16	0.01	< 0.5	< 1	14	25	1.62	< 10	< 1	0.30	20	0.02	5
88-7 10-15	207	238	0.21	1.65	0.2	275	130	< 0.5	10	0.06	< 0.5	< 1	24	33	1.84	< 10	1	0.34	40	0.05	7
88-7 55-60	207	238	0.82	1.35	0.2	585	230	< 0.5	18	0.03	< 0.5	< 1	16	47	2.27	< 10	< 1	0.46	30	0.04	4
88-7 75-80	207	238	0.48	0.61	0.2	345	220	< 0.5	22	0.01	< 0.5	< 1	16	46	2.71	< 10	< 1	0.55	20	0.04	5
88-7 95-100	207	238	0.58	0.38	0.6	200	70	< 0.5	30	< 0.01	< 0.5	< 1	12	160	1.83	< 10	< 1	0.22	20	0.01	4
88-8 45-50	207	238	0.10	0.61	0.6	290	110	< 0.5	16	0.01	< 0.5	< 1	18	145	3.80	< 10	< 1	0.33	40	0.07	4
88-9 60-65	207	238	0.07	0.43	1.0	850	120	< 0.5	86	0.01	0.5	9	13	129	3.89	< 10	< 1	0.25	20	0.02	7
88-11 20-25	207	238	0.72	1.12	1.2	1885	100	< 0.5	36	0.11	1.0	11	24	243	6.59	< 10	< 1	0.66	10	0.44	11
88-11 25-30	207	238	0.48	0.37	0.6	3120	110	< 0.5	40	0.03	2.5	< 1	12	121	2.69	< 10	< 1	0.37	10	0.05	4
88-11 40-45	207	238	0.72	0.66	0.4	2460	110	< 0.5	20	0.02	1.5	< 1	18	60	3.15	< 10	< 1	0.39	20	0.03	5
88-11 75-80	207	238	0.10	0.62	0.2	200	80	< 0.5	12	0.02	< 0.5	< 1	20	80	3.11	< 10	< 1	0.30	20	0.04	5
88-12 40-45	207	238	0.75	3.82	0.6	1100	100	< 0.5	28	0.07	1.0	9	62	379	8.93	< 10	< 1	1.54	10	1.15	8
88-12 55-60	207	238	2.98 .087	0.80	0.4	1300	90	< 0.5	132	0.01	< 0.5	< 1	12	129	1.88	< 10	2	0.36	20	0.04	2
88-13 30-35	207	238	0.58	4.82	0.2	60	40	< 0.5	12	0.25	< 0.5	12	49	917	7.77	< 10	< 1	0.29	10	0.82	12
88-13 35-40	207	238	0.58	4.63	0.4	210	130	< 0.5	70	0.17	< 0.5	8	61	576	7.62	10	< 1	0.74	40	0.87	7
88-13 85-90	207	238	0.34	0.61	0.4	180	100	< 0.5	28	0.01	< 0.5	< 1	10	56	1.58	< 10	< 1	0.32	10	0.03	2
88-14 50-55	207	238	0.24	0.88	0.4	315	540	< 0.5	4	0.09	0.5	5	24	178	5.09	< 10	< 1	0.57	30	0.07	6
88-14 55-60	207	238	1.06 .031	0.72	0.4	1340	280	< 0.5	138	0.05	1.0	5	18	135	3.73	< 10	< 1	0.53	20	0.04	7
88-15 15-20	207	238	0.86	1.46	1.2	775	70	< 0.5	42	0.04	< 0.5	6	44	278	5.20	< 10	< 1	0.51	30	0.26	5
88-15 45-50	207	238	0.41	2.65	0.2	55	50	< 0.5	98	0.02	< 0.5	8	66	489	9.98	10	< 1	1.04	< 10	1.52	12
88-16 0-10	207	238	0.45	1.27	2.6	550	100	< 0.5	76	0.16	7.5	9	35	1105	5.07	< 10	< 1	0.44	20	0.35	11
88-17 20-25	207	238	0.17	1.54	0.8	115	30	< 0.5	20	0.04	< 0.5	6	61	276	4.63	< 10	< 1	0.19	10	0.45	8
88-17 50-55	207	238	0.14	3.81	0.4	65	190	0.5	10	0.04	< 0.5	6	72	295	3.59	< 10	< 1	0.64	40	0.85	6
88-17 70-75	207	238	0.89	0.82	0.8	740	60	< 0.5	34	0.02	0.5	< 1	21	138	2.68	< 10	< 1	0.24	10	0.07	4
88-17 75-80	207	238	0.99	2.06	1.2	970	50	0.5	26	0.03	0.5	7	30	512	7.61	10	< 1	0.82	40	0.46	4
88-17 80-85	207	238	1.78 .05	1.68	0.8	900	60	1.0	26	0.03	0.5	8	43	366	7.00	< 10	< 1	0.68	20	0.44	4
88-18 70-75	207	238	0.79 .79	0.87	0.8	1125	100	< 0.5	26	0.01	0.5	< 1	13	86	1.74	< 10	< 1	0.37	20	0.04	2
88-20 55-60	207	238	0.21	1.76	0.4	270	60	0.5	10	0.14	< 0.5	30	73	357	7.09	< 10	1	0.43	10	0.80	33
88-20 65-70	207	238	0.58	1.90	0.2	115	80	1.0	10	0.05	< 0.5	18	60	298	7.48	< 10	< 1	0.79	50	0.77	22
88-20 80-85	207	238	1.51 .044	1.44	0.8	220	100	0.5	36	0.04	< 0.5	11	51	516	11.90	< 10	< 1	0.76	10	0.34	5
88-21 75-80	207	238	0.45	0.61	0.2	725	60	< 0.5	14	0.01	0.5	< 1	10	55	1.34	< 10	2	0.26	20	0.04	2
88-22 40-45	207	238	0.14	2.86	0.8	75	80	0.5	10	0.06	< 0.5	10	80	483	6.42	10	< 1	2.00	10	2.24	11

ALL ASSAY DETERMINATIONS ARE PERFORMED OR SUPERVISED BY BC CERTIFIED ASSAYERS

CERTIFICATION : _____

Chemex Labs Ltd.
Analytical Chemists • Geochemists • Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
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PHONE (604) 984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
BOX 4127, 3125 3RD AVE.
WHITEHORSE, Y.T.
Y1A 3S9
Project : REVENUE
Comments:

Date : 11-JUL-88
Invoice # : I-8817999
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8817999

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
88-1 10-15	207 238	3	0.10	16	340	96	< 5	5	37	0 03	< 10	< 10	36	< 5	290
88-2 35-40	207 238	4	0.07	6	570	10	< 5	6	31	0.01	< 10	< 10	55	< 5	22
88-2 65-70	207 238	4	0.06	15	480	22	< 5	16	28	0 15	< 10	< 10	106	< 5	33
88-4 60-65	207 238	5	0.03	8	160	20	< 5	8	10	0 03	< 10	< 10	33	< 5	31
88-4 90-95	207 238	3	0.01	5	130	16	< 5	1	8	< 0 01	< 10	< 10	3	< 5	9
88-5 0-10	207 238	3	0.07	8	230	194	< 5	4	19	< 0.01	< 10	< 10	18	< 5	322
88-5 55-60	207 238	2	0.01	5	100	4	< 5	2	7	< 0.01	< 10	< 10	8	< 5	18
88-6 45-50	207 238	3	0.01	5	90	2	5	1	7	< 0.01	< 10	< 10	2	< 5	9
88-6 90-95	207 238	2	0.01	7	80	12	< 5	1	6	< 0.01	< 10	< 10	1	< 5	6
88-7 10-15	207 238	4	0.03	12	100	4	< 5	2	11	< 0.01	< 10	< 10	6	< 5	14
88-7 55-60	207 238	3	0.01	6	230	2	5	3	13	< 0.01	< 10	< 10	10	< 5	8
88-7 75-80	207 238	4	0.01	5	340	6	< 5	1	13	< 0.01	< 10	< 10	6	< 5	11
88-7 95-100	207 238	2	0.01	4	50	6	5	< 1	4	< 0.01	< 10	< 10	1	< 5	14
88-8 45-50	207 238	4	0.03	6	380	16	25	2	12	< 0 01	< 10	< 10	12	< 5	13
88-9 60-65	207 238	6	0.01	9	190	6	< 5	3	9	< 0 01	< 10	< 10	6	< 5	144
88-11 20-25	207 238	4	0.03	15	490	12	5	7	23	0.03	< 10	< 10	49	< 5	29
88-11 25-30	207 238	3	0.01	6	110	6	< 5	1	10	< 0.01	< 10	< 10	4	< 5	9
88-11 40-45	207 238	6	0.02	17	90	6	< 5	1	6	< 0.01	< 10	< 10	1	< 5	19
88-11 75-80	207 238	6	0.09	19	250	12	< 5	2	15	< 0.01	< 10	< 10	5	< 5	11
88-12 40-45	207 238	2	0.13	15	650	14	5	27	46	0.07	< 10	< 10	129	< 5	44
88-12 55-60	207 238	4	0.02	7	60	< 2	15	1	7	< 0 01	< 10	< 10	4	< 5	7
88-13 30-35	207 238	3	0.04	21	630	12	< 5	25	12	0.38	< 10	10	208	< 5	60
88-13 35-40	207 238	4	0.11	19	850	18	< 5	22	118	0.15	< 10	< 10	154	< 5	30
88-13 85-90	207 238	3	0.01	5	170	12	< 5	1	8	< 0.01	< 10	< 10	5	< 5	6
88-14 50-55	207 238	8	0.08	18	550	22	< 5	6	31	< 0 01	< 10	< 10	23	< 5	9
88-14 55-60	207 238	9	0.05	15	320	10	5	7	26	< 0.01	< 10	< 10	15	< 5	8
88-15 15-20	207 238	6	0.03	16	520	14	< 5	9	23	0.01	< 10	< 10	50	< 5	17
88-15 45-50	207 238	3	0.01	7	590	24	< 5	27	9	0.08	< 10	< 10	175	< 5	31
88-16 0-10	207 238	8	0.03	21	390	850	10	6	28	0.03	< 10	< 10	48	< 5	1550
88-17 20-25	207 238	6	0.01	15	490	10	< 5	10	4	0.01	< 10	< 10	75	< 5	34
88-17 50-55	207 238	5	0.01	17	420	12	< 5	18	19	0.05	< 10	< 10	84	5	16
88-17 70-75	207 238	6	0.06	16	270	< 2	5	4	20	< 0.01	< 10	< 10	17	5	12
88-17 75-80	207 238	142	0.06	8	430	12	5	11	53	0.03	< 10	< 10	58	< 5	28
88-17 80-85	207 238	14	0.04	8	360	< 2	< 5	13	22	0.03	< 10	< 10	65	< 5	37
88-18 70-75	207 238	5	0.01	7	90	< 2	5	2	8	< 0.01	< 10	< 10	4	< 5	9
88-20 55-60	207 238	5	0.04	38	370	< 2	< 5	14	12	0.09	< 10	< 10	89	5	112
88-20 65-70	207 238	21	0.04	24	450	4	< 5	18	14	0.06	< 10	< 10	79	< 5	64
88-20 80-85	207 238	9	0.03	6	1100	24	10	17	11	0.04	< 10	< 10	120	< 5	42
88-21 75-80	207 238	4	0.01	6	70	2	< 5	1	6	< 0.01	< 10	< 10	4	< 5	6
88-22 40-45	207 238	3	0.06	7	670	< 2	< 5	19	13	0.24	< 10	< 10	108	5	29

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CERTIFICATION : B.T. Cranston

Chemex Labs Ltd.

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PHONE (604) 984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.

BOX 4127, 3125 3RD AVE.
WHITEHORSE, Y.T.
Y1A 3S9

Project : REVENUE
Comments:

Date : 11-JUL-88
Invoice # : I-8817999
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8817999

SAMPLE DESCRIPTION	PREP CODE		Au g/tonne	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 %	M ppm
88-22 70-75	207	238	0.21	0.61	1.0	435	50	< 0.5	50	0.01	< 0.5	< 1	10	107	1.27	< 10	2	0.23	10	0.05	2
88-23 25-30	207	238	0.72	1.40	1.0	200	30	< 0.5	12	0.02	< 0.5	7	26	302	4.10	< 10	< 1	0.56	10	0.62	6
88-24 65-70	207	238	0.55	1.44	2.0	220	90	< 0.5	108	0.01	< 0.5	< 1	9	183	1.99	< 10	< 1	0.43	20	0.11	1
88-25 35-40	207	238	0.24	3.54	0.2	180	40	< 0.5	18	0.05	< 0.5	7	62	730	6.92	< 10	< 1	0.44	10	0.74	5
88-25 75-80	207	238	1.71 .05	0.81	1.0	650	40	< 0.5	32	< 0.01	0.5	< 1	6	64	0.91	< 10	< 1	0.20	20	0.03	1
88-25 95-100	207	238	1.58 .046	0.51	0.8	260	60	< 0.5	26	0.01	< 0.5	< 1	6	68	1.56	< 10	1	0.22	20	0.02	1
88-26 15-20	207	238	0.48	1.62	< 0.2	1110	40	< 0.5	12	0.12	1.0	21	63	337	7.63	< 10	< 1	0.45	20	0.84	15
88-26 35-40	207	238	0.51	1.59	< 0.2	75	40	< 0.5	14	0.09	< 0.5	24	45	311	7.63	< 10	< 1	0.49	20	0.66	21
88-26 75-80	207	238	0.31	1.71	0.4	105	60	< 0.5	12	0.04	< 0.5	13	77	371	6.87	< 10	< 1	0.84	20	1.10	11
88-27 55-60	207	238	0.99	2.28	0.6	945	80	< 0.5	44	0.04	1.0	12	82	367	7.06	< 10	< 1	1.07	20	1.38	13
88-27 60-65	207	238	3.94 .11	1.62	0.8	345	50	< 0.5	242	0.03	0.5	8	75	326	7.35	< 10	< 1	0.99	20	0.97	8
88-28 75-80	207	238	0.96	2.80	0.4	435	90	< 0.5	20	0.11	0.5	44	88	382	7.28	< 10	< 1	0.65	20	1.21	45
88-29 50-55	207	238	0.69	0.98	3.2	240	120	< 0.5	28	0.04	< 0.5	< 1	22	112	2.04	< 10	< 1	0.31	20	0.06	2
88-29 65-70	207	238	0.69	1.33	2.6	110	110	< 0.5	24	0.04	< 0.5	< 1	25	224	2.63	< 10	1	0.37	20	0.15	3
88-29 90-95	207	238	1.99 .058	0.67	2.4	145	70	< 0.5	74	0.02	< 0.5	< 1	10	93	1.64	< 10	< 1	0.31	20	0.04	2
88-30 70-75	207	238	2.43	0.89	1.4	895	60	< 0.5	88	0.01	1.5	6	19	196	4.03	< 10	< 1	0.58	10	0.20	4

N=86

.071

40.37

Av = .72 (0.021).

17.92 ÷ 8 = 2.24

(.065)

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CERTIFICATION : B. Sterritt

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T ICHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, Y.T.
Y1A 3S9
Project : REVENUE
Comments:

Page 1 :-B
Tot. P... 2
Date :11-JUL-88
Invoice # :I-8817999
P.O. # :NONE

CERTIFICATE OF ANALYSIS A8817999

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
88-22 70-75	207	238	< 1	0.01	5	390	14	25	1	16	< 0.01	< 10	< 10	6	< 5	6
88-23 25-30	207	238	< 1	0.06	6	350	12	< 5	8	8	0.04	< 10	< 10	58	15	17
88-24 65-70	207	238	< 1	0.02	4	460	20	< 5	4	18	< 0.01	< 10	< 10	11	< 5	12
88-25 35-40	207	238	< 1	0.04	6	810	10	< 5	15	8	0.02	< 10	< 10	120	20	23
88-25 75-80	207	238	< 1	0.01	2	100	16	5	1	5	< 0.01	< 10	< 10	4	< 5	5
88-25 95-100	207	238	1	0.01	1	110	12	5	1	6	< 0.01	< 10	< 10	3	< 5	7
88-26 15-20	207	238	< 1	0.05	17	390	12	< 5	14	9	0 08	< 10	< 10	105	20	62
88-26 35-40	207	238	< 1	0.06	23	490	20	< 5	16	14	0 14	< 10	< 10	112	20	101
88-26 75-80	207	238	< 1	0.07	10	340	14	< 5	14	9	0 09	< 10	< 10	114	20	31
88-27 55-60	207	238	< 1	0.07	11	350	6	< 5	11	12	0.10	< 10	< 10	84	15	28
88-27 60-65	207	238	< 1	0.05	8	340	12	< 5	13	6	0.09	< 10	< 10	96	15	21
88-28 75-80	207	238	< 1	0.04	41	400	6	< 5	16	9	0.07	< 10	< 10	108	15	72
88-29 50-55	207	238	< 1	< 0.01	6	160	16	5	6	11	< 0.01	< 10	< 10	30	5	8
88-29 65-70	207	238	< 1	< 0.01	7	190	32	5	6	8	0.01	< 10	< 10	38	5	10
88-29 90-95	207	238	< 1	< 0.01	4	290	18	5	2	17	< 0.01	< 10	< 10	14	< 5	11
88-30 70-75	207	238	< 1	0.01	6	390	30	10	7	9	0.02	< 10	< 10	53	5	11

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CERTIFICATION : B. Fletcher

Chemex Labs Ltd.
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ARCHER CATHRO & ASSOC. (1981) LTD.

BOX 4127
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Y1A 3S9

Project : NUCLEUS
Comments

Page : 1
Tot. Pages: 1
Date : 24-SEP-88
Invoice # : I-8823737
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8823737

SAMPLE DESCRIPTION	PREP CODE	Au oz/T
PDH88-31 185-190	207 ---	0.026
PDH88-33 20-25	207 ---	0.020
PDH88-33 25-30	207 ---	0.007
PDH88-33 180-185	207 ---	0.017
PDH88-35 105-110	207 ---	0.002

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CERTIFICATION : _____

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WHITEHORSE, Y.T.
Y1A 3S9
Project : NUCLEUS
Comments:

Page N 1
Tot. P 1
Date 24-SEP-88
Invoice # :I-8823738
P.O. # :NONE

CERTIFICATE OF ANALYSIS A8823738

SAMPLE DESCRIPTION	PREP CODE		Au FA oz/T	
NUC ST1 5.0-7.0M	208	--	0.034	
NUC ST1 7.0-8.0M	208	--	0.015	
NUC ST2 3.0-5.0M	208	--	0.009	
NUC ST2 5.0-7.0M	208	--	0.012	
TRNUC88-1 5-10M	208	--	0.004	0.137
TRNUC88-1 10-15M	208	--	0.006	0.206
TRNUC88-1 15-20M	208	--	0.007	0.240
TRNUC88-1 20-25M	208	--	0.010	0.343
TRNUC88-1 25-30M	208	--	0.016	0.549
TRNUC88-1 30-35M	208	--	0.003	0.103
TRNUC88-1 35-40M	208	--	0.002	0.069
TRNUC88-1 40-45M	208	--	0.002	0.069
TRNUC88-1 45-50M	208	--	0.012	0.411
TRNUC88-1 50-55M	208	--	0.015	0.514
TRNUC88-1 55-60M	208	--	0.031	1.063
TRNUC88-1 60-65M	208	--	0.028	0.960
TRNUC88-1 65-70M	208	--	0.020	0.686
TRNUC88-2 05-10M	208	--	0.009	0.309
TRNUC88-2 10-15M	208	--	0.015	0.514
TRNUC88-2 15-20M	208	--	0.010	0.343
TRNUC88-2 20-25M	208	--	0.002	0.069
TRNUC88-2 25-30M	208	--	0.006	0.206
TRNUC88-2 30-35M	208	--	0.004	0.137

4/E . 34.285

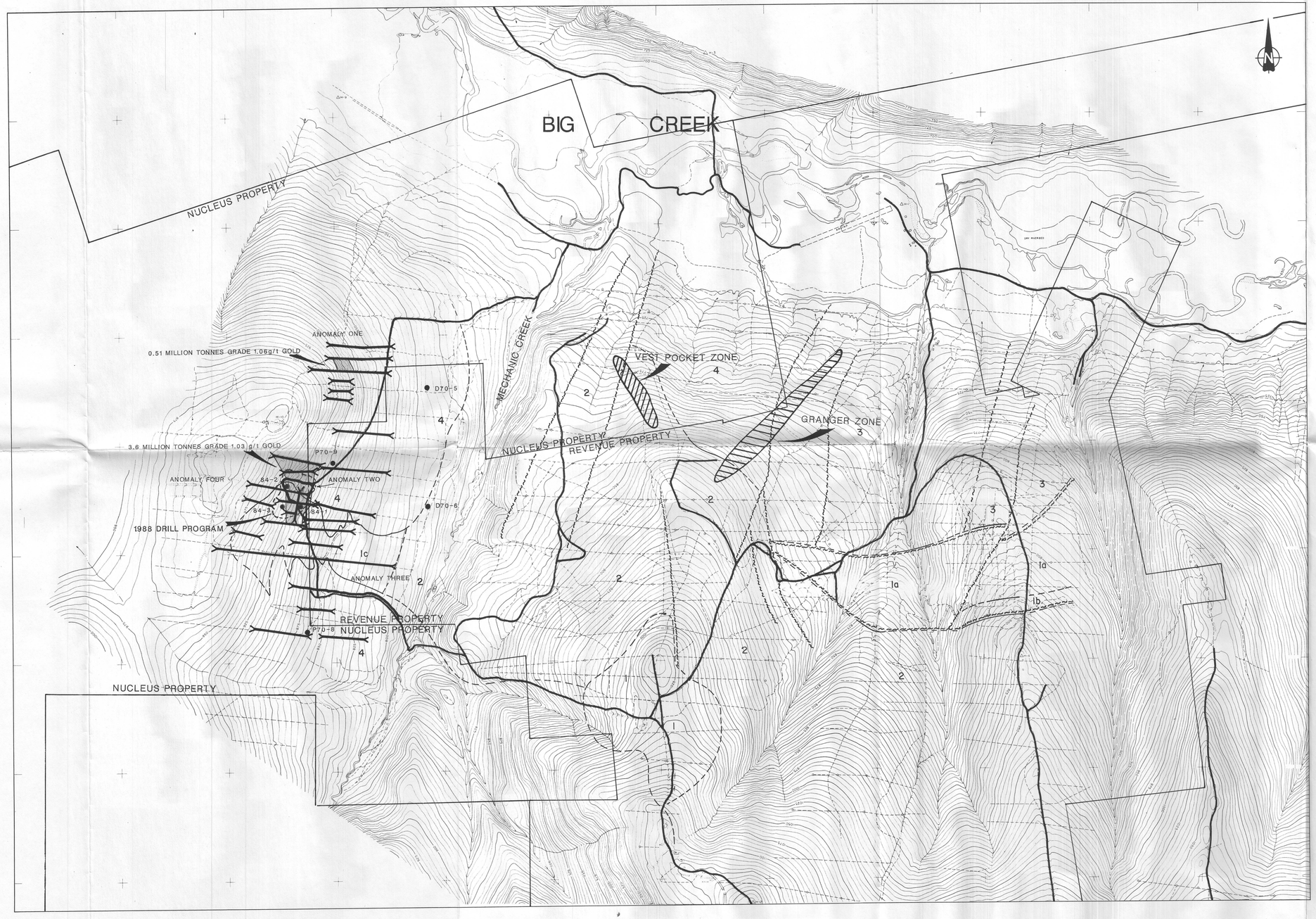
ALL ASSAY DETERMINATIONS ARE PERFORMED OR SUPERVISED BY BC CERTIFIED ASSAYERS

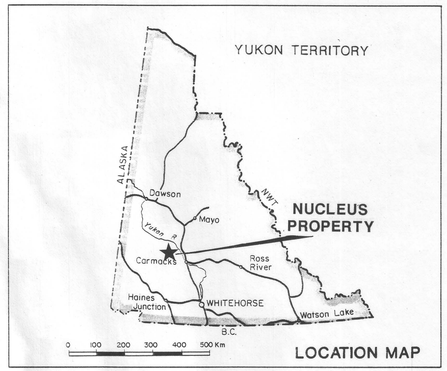
CERTIFICATION : B. Lewis

APPENDIX IV

LIST OF EMPLOYEES

NAME	POSITION
C. Main	Project Manager
T. Becker	Geologist
M. Phillips	Geologist
L. Eaton	Field Assistant
N. Hachey	Field Assistant
R. Hancox	Field Assistant
L. Leroux	Field Assistant
G. MacIntosh	Field Assistant
B. Wengzynowski	Field Assistant
S. Wettlaufer	Cook





LEGEND

CRETACEOUS OR EARLY TERTIARY

1 — a) Block and lapilli tuff. b) Quartz-feldspar porphyry, often brecciated and intrusive into 1a. c) Mixed intrusive unit, includes 1b and 4. Frequent brecciated zones.

CRETACEOUS

2 — Hornblende-biotite quartz monzonite.

3 — Leucocratic quartz monzonite with zenoliths of unit 4.

PALEOZOIC

4 — Yukon Metamorphic Complex schists and gneiss.

Figure N-22

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

COMPILATION MAP

NUCLEUS PROPERTY

BIG CREEK JOINT VENTURE

SCALE 1:10,000

0 100 200 300 400 500 1000 Metres

0 500 1000 2000 3000 Feet

To accompany report dated February 1989