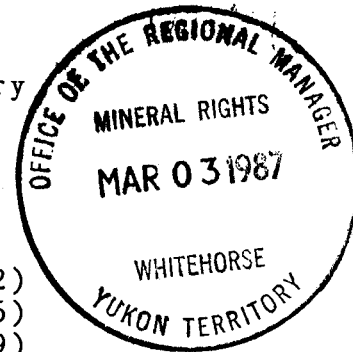


091918

**GEOLOGICAL AND GEOCHEMICAL REPORT
ON THE McDADE PROPERTY**

Whitehorse M.D., Yukon Territory
October 9-20, 1986



Claims: Robert 1-54 (YA93689-742)
Robert 55-72 (YA94679-696)
JS 1-152 (YA94458-609)
Nulee 1-126 (YA94697-822)

Location: 1. 185 km NW of Whitehorse, Yukon
2. NTS 115/I 2 & 3
3. Latitude 62° 06' N
Longitude 137° 00' W

For: Mr. Gordon F. Dickson
P.O. Box 4940
Whitehorse, Yukon
Y1A 4S2
(403) 667-7059

By: Harmen J. Keyser, B.Sc.
Aurum Geological Consultants Inc.
604-675 West Hastings Street
Vancouver, B.C.
V6B 1N2

January 27, 1987

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This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 36,100.00.

D. Demond

for

Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

2 1 0 1 9 1

SUMMARY

The McDade property consists of 350 contiguous mineral claims in the Dawson Range Gold Belt, Yukon. It is accessible by road from Carmacks. The claims became an attractive exploration target in 1985 when potential bulk-mineable heap-leachable gold deposits were recognized in the area.

The current work program has consisted of geological mapping, geochemical sampling, and bulldozer trenching. Underlain mainly by Paleozoic metamorphic rocks, three separate Cretaceous intrusive/volcanic events have been mapped on the unglaciated claims.

Two zones of mineralization have been identified to date on the McDade property; (1) gold in quartz-stibnite-chalcedony breccia at the Lee Zone and (2) gold in lithic-quartz-chalcedony breccia at the Wind Zone. There is no bedrock exposed at either occurrence but rock samples have been collected returning up to 0.028 and 0.022 opt gold respectively. Gold/silver ratios are very high. Antimony and mercury are associated with the gold mineralization, especially at the Lee Zone. Anomalous gold has been found in stream sediments and/or soil adjacent to known mineralization, indicating more mineralization remains to be found.

A large number of geochemical stream sediment and soil anomalies and anomalous areas have been identified on the claims. The most promising of these anomalies is associated with altered volcanic lithologies.

Based on these results, a follow-up exploration program consisting of trenching, geological mapping and geochemical sampling is warranted and recommended.

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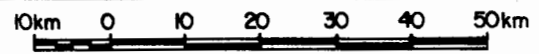
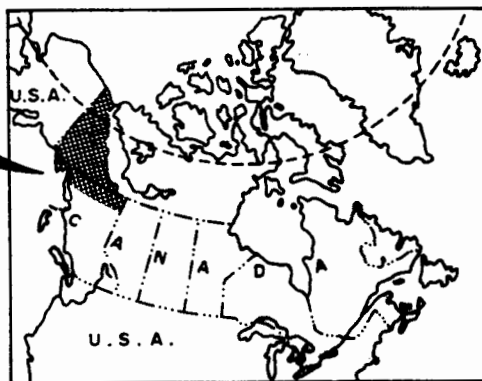
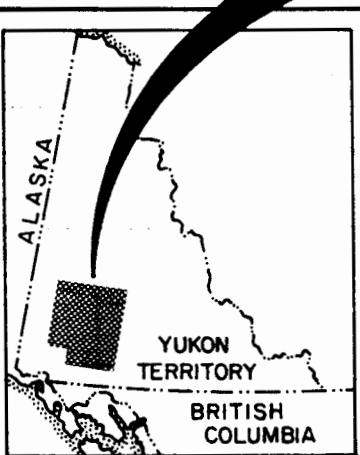
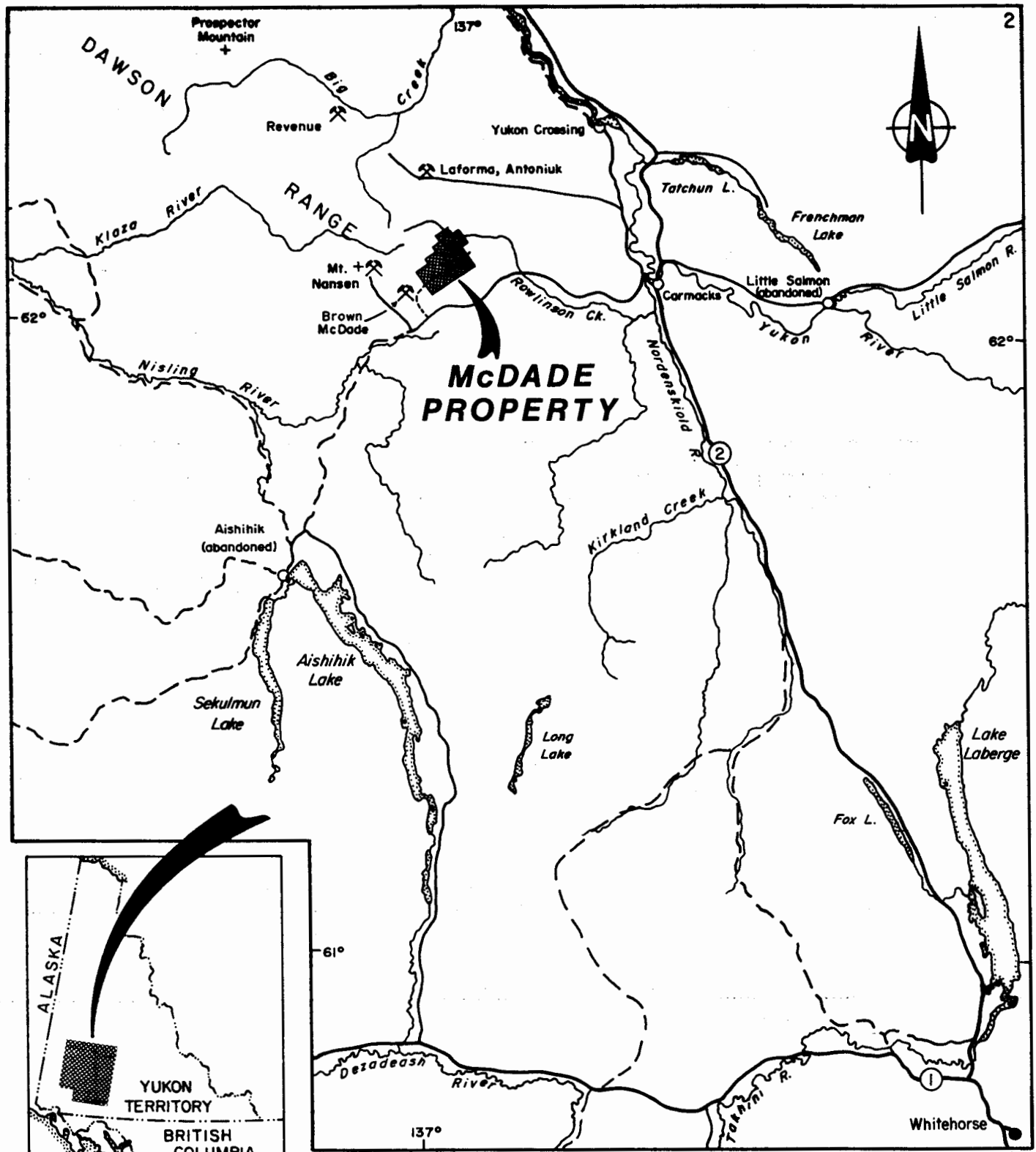
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INTRODUCTION

This report was prepared at the request of Mr. Gordon Dickson, owner of the McDade Property. Its purpose is to summarize the economic potential of the Robert 1-72, JS 1-152, and Nulee 1-126 mineral claims through a description of exploration work carried out during 1986.

The claims are located about 185 kilometers northwest of Whitehorse, Yukon (Figure 1) in the Dawson Range Gold Belt, and are accessible by road.

Exploration work completed in 1986 consisted of trenching, geological mapping, geochemical sampling, and air photo interpretation for the purpose of locating gold deposits. Trenching was performed by Mr. Gordon Dickson at selected areas on all three claim groups using a Caterpillar D3B bulldozer with backhoe attachment and a Caterpillar D8H. The remaining work was carried out by Roger Hulstein and Harmen Keyser of Aurum Geological Consultants Inc. preferentially on the JS and Nulee claim groups for assessment purposes during the period October 9 to 20, 1986.



McDADE PROPERTY	
LOCATION	
Aurum Geological Consultants Inc.	January, 1987
Drawn by N.H.	Checked by H.K.
Scale 1:1,000,000	FIGURE 1

LOCATION AND ACCESS

The McDade Property is located in southwestern Yukon, about 36 kilometers west of Carmacks. The geographic coordinates of a point approximately in the center of the property are $62^{\circ} 06'$ north latitude and $137^{\circ} 00'$ west longitude.

Access is by a good gravel road leading from Carmacks to the Mt. Nansen area, as far as Victoria Creek. A trail suitable for track-type or ATC-type vehicles then follows Victoria Creek and onto several parts of the property. The main portion of this trail is part of the old Mt. Nansen-Mt. Freegold trail which traverses northeasterly across the entire claim group.

Alternatively, helicopters are available for charter at Carmacks and Whitehorse.

HISTORY

Mining history in the area of the McDade Property began in the early 1900's with the discovery and production of placer gold at Nansen and Victoria Creeks. Subsequent prospecting, in part by Mr. Gordon Dickson, in the 1930's to 1960's culminated in the discovery of numerous gold and silver vein-type occurrences. Placer gold has been a good indicator of lode deposits. The most important of these are (Deighton 1974):

Name	Tons	Au opt	Ag opt
Laforma	80,000	0.70	?
Brown-Mcdade	45,670	0.50	6.0
Mount Nansen	200,000	0.33	13.0

Laforma operated in 1965-66 and Mount Nansen in 1968-69. Although there are at present no producing mines in the area, there is currently considerable exploration interest toward potential bulk-mineable heap-leachable Au-Ag deposits in what is now known as the Dawson Range Gold Belt. Companies currently evaluating this potential include Archer-Cathro and Associates (1981) Limited, Chevron Canada Resources Ltd. and Kerr Addison Mines Ltd., active since 1985. Published reserves of these deposits include:

Name	Tons	Au opt	Ag opt	Source
Antoniuk	4,097,000	0.033	?	1
Casino	176,000,000	0.011	?	2

1. Nordac Mining Corporation, Dec. 1986 News Release.
2. Eaton and Main 1986

Parts of the ground now covered by the McDade Property have been previously staked as evidenced by old claim posts. Except for a porphyry copper geochemical exploration program described by Deighton (1974), there is no written record of prior exploration programs or mineral discoveries. Old trenches and placer workings have been located in several areas, but their history is unknown. Seasonally active placer gold production occurs along several sections of Victoria Creek. Placer deposits have apparently also been evaluated at Montgomery Creek, McDade Creek, and Lee Creek.

The present property owner, Mr. Gordon Dickson, discovered and staked antimony-bearing float at what is now called the Lee Zone in 1973. No work was completed and the claims were allowed to lapse. The present ground was acquired by staking in 1985-1986.

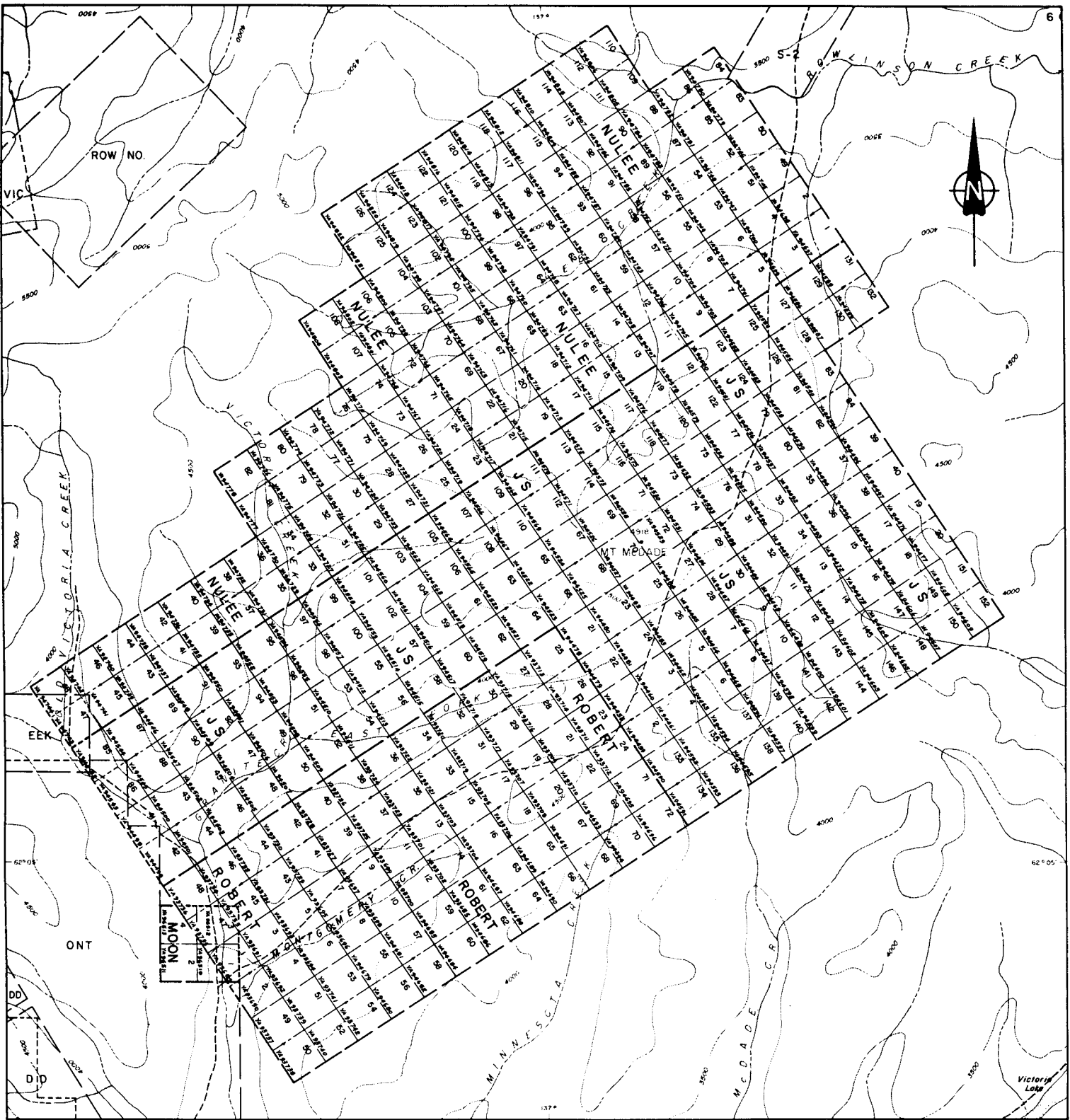
PROPERTY

The property consists of 350 two-post unsurveyed mineral claims (Figure 2) staked under the Yukon Quartz Mining Act totaling approximately 7300 hectares (18,100 acres). Claim data is as follows:

Claim Name	Grant No.'s	Recording Date	Expiry Date *
Robert 1-54	YA93689-742	Sept. 26, 1985	Sept. 26, 1988
Robert 55-72	YA94679-696	May 30, 1986	May 30, 1987
JS 1-40	YA94458-497	May 21, 1986	May 21, 1987
JS 41-152	YA94498-609	May 22, 1986	May 22, 1987
Nulee 1-126	YA94697-822	May 30, 1986	May 30, 1987

* prior to recording assessment work described herein.

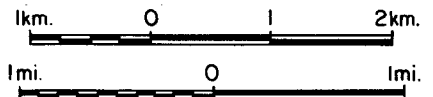
The claims are owned 100% by Mr. Gordon F. Dickson and are shown on Yukon Quartz and Placer Sheets 115 I-2 and I-3. They are known collectively as the McDade Property, after Mr. George McDade who prospected in the area in the 1930's and 1940's. When encountered during the 1986 exploration program, claim posts were observed to be properly tagged and otherwise exceptionally well staked.



LEGEND

- claim boundary
- claim number
- tag number
- gravel road
- creeks
- elevation contour; interval 500 ft.

Notes - adapted from D.I.A.N.D. claim sheets
 1151-283
 - all locations subject to survey
 - MOON claims are part of McDade property,
 but are not included in this report for
 assessment reasons.



McDADE PROPERTY			
CLAIM LOCATION			
<i>Aurum Geological Consultants Inc.</i>		JANUARY, 1987	
NTS 1151-2 B3	Drawn by N.H.	Scale 1:63,360	FIGURE 2

CLIMATE, TOPOGRAPHY AND VEGETATION

The climate in the area of the McDade Property is variable with hot summers and long, cold winters. Because the area lies in the rain shadow of the St. Elias Mountains, precipitation amounts to approximately 25 cm (10 inches) annually. Eaton and Main (1986) report that climatic conditions are suitable for seasonal heap leach mining.

Situated in the southeastern end of the unglaciated (Bostock 1936) Dawson Range, topography is moderate and is characterized by well developed dendritic drainages separated by broad ridges. Elevations on the property range from 1040 m (3400 ft) in Rowlinson and Victoria Creek valleys to 1500 m (4918 ft) at Mt. McDade.

Vegetation is characterized by sparse stunted spruce and balsam with thick shrubs locally known as buckbrush at lower elevations, with alpine grasses and tundra at higher elevations.

Sufficient water sources are available for any exploration or mining requirement.

GEOLOGY

Regional Geology

The McDade Property is situated at the northeastern margin of the Yukon Crystalline Terrane. Bostock (1936) and Tempelman-Kluit (1984) have adequately described the regional geology.

The oldest rocks exposed in the Dawson Range Gold Belt are Paleozoic (or older ?) metamorphics of the Pelly Gneiss Complex. Mesozoic granitoid rocks of the Coast Plutonic Complex have intruded the metamorphic assemblage. Middle to Upper Cretaceous (Tempelman-Kluit 1984) regionally extensive subvolcanics to volcanics of the Mt. Nansen and Carmacks Groups intrude and unconformably overlie all pre-Cretaceous rocks. They have a close spatial relationship with the older granitoids. Numerous plugs and dikes of this unit have been mapped by Tempelman-Kluit (1984) on the McDade property, and are no longer thought to be Tertiary in age.

Structure is dominated by northwest trending faults. One of these faults, the Big Creek Fault, forms the boundary between the Yukon Cataclastic Complex to the northeast and the Yukon Crystalline Complex to the southwest. This fault is thought to be a normal fault, equivalent in age to the Mount Nansen Group (D. Tempelman-Kluit, personal communication 1987). It closely coincides with the trend of many gold and silver occurrences in the Dawson Range Gold Belt and comes to within 10 km of the McDade property.

Permafrost is present throughout, reaching a depth of up to 50 meters (Saager and Bianconi 1971). Overburden consists of residual soil and local alluvium covered by a layer of Recent volcanic ash ranging up to 1 meter in thickness, blanketing all bedrock except at some ridge crests. Bedrock can be oxidized and weathered to depths reaching 75 meters.

Geology of the McDade Property

Property geology (Figure 3) is much more complex than can be shown on the previously described regional mapping. Rock outcrops are scarce and deeply weathered, owing to the pre-Quaternary weathered surface that escaped Pleistocene glaciation. Bedrock exposures are generally restricted to ridge crests underlain by resistive-weathering unaltered lithologies.

Metamorphic rocks (map unit Pm) comprised of gneiss, quartzite, and mica schist are the oldest and most commonly exposed lithology on the McDade Property. These rocks are thought to be part of the Pelly Gneiss Complex and would therefore be Paleozoic (?) (Tempelman-Kluit 1984) in age.

Equigranular granodiorite (Map unit Kgd) of the Coast Plutonic Complex has been mapped at several locations as intruding the metamorphic rocks. Hornblende and biotite are present in approximately equal amounts, and both typically exhibit variable chloritization.

Cretaceous volcanic rocks consisting of andesite (map unit KMNa) and rhyolite (map unit KMNr) occur as plugs and flows over a wide area. Propylitic alteration is prominent in the andesite and argillic alteration present in the rhyolite, though sometimes difficult to identify because of weathering. Although there was no evidence whatsoever found for the rhyolite outliers mapped by Tempelman-Kluit (1984), rhyolite outcrops and scree were found in other areas.

Basalt of the Carmacks Group (map unit KCb) has been found at or near ridge crests at two separate areas. The occurrence immediately north of Mt. McDade (Figure 3) is highly siliceous, though dense and dark colored, and may actually be rhyolitic in composition. Jasperoid and chalcedonic rubble was found here. Soil overlying this unit is dark red in color and has a high clay component.

A tabulated geological history of the property and area is given as Table 1.

TABLE 1. Tabulated Geologic History of the McDade Property Area. Relative ages of KMNa and KMNr are uncertain.

<u>Unit</u>	<u>Age *</u>	<u>Event/Lithology</u>
Qs	Quaternary-Tertiary.	Unconsolidated surficial debris/colluvium. Supergene weathering.
KCb	Upper Cretaceous	Carmacks basalt flows; basal rhyolite unit.
KMnr,a	Mid Cretaceous	Mount Nansen Group hypabyssal rhyolitic to andesitic plugs, breccias, and flows. Contemporaneous faulting and mineralization (?)
Kgd	Lower Cretaceous	Coast Plutonic Complex. Folding, faulting, metamorphism, emplacement of granodiorite plutons.
Pm	Paleozoic	Deposition of sedimentary and volcanic rocks on unknown basement. Possible plutonism.

* modified from Tempelman-Kluit 1984, and Lowey et al 1986.

MINERALIZATION

There is no record of previous mineral discoveries on the McDade property. Although the ground was prospected previously for copper and antimony, there apparently has been no detailed exploration specifically for precious metals until the present owner initiated a systematic bulldozer trenching program in 1986.

Regionally, gold-silver deposits appear to be associated with brecciated porphyry intrusive centers of the Mt. Nansen Group. Past discoveries (e.g. Mt. Nansen, Laforma) have been epithermal or mesothermal vein-type occurrences, but current exploration is focused toward low-grade large-tonnage gold mineralization partly in leached caps overlying known porphyry copper deposits (Eaton and Main 1986).

To date, two zones of gold mineralization have been located on the McDade property; (1) the Lee Zone, and (2) the Wind Zone.

Lee Zone

First discovered in 1973 by Mr. Gordon Dickson, the Lee Zone (Figure 4) is characterized by quartz-stibnite-chalcedony-jasperoid breccia boulders apparently hosted by schist and quartzite. There is no outcrop in the area but the distribution of mineralized float follows a north trend.

In excess of 800 meters of relatively shallow (less than 2 meters deep) bulldozer trenching was completed during the 1986 field season. Soil samples were taken at 10 to 50 meter intervals in all of the trenches, and rock samples were taken of mineralized and altered material.

Results show rock values ranging from 40 to 950 ppb gold. Silver, lead, and arsenic values are typical of normal crustal abundances, i.e., not anomalous. Most of the anomalous gold values are coincident, though not restricted, with high antimony and mercury. Soils are anomalous in antimony (up to 140 ppm) and mercury (up to 1820 ppb) where stibnite-bearing float was found; gold ranges up to 25 ppb.

Wallrock alteration appears to consist of variable argillization and minor silicification, though it is difficult to recognize because of the supergene weathering and older (?) metamorphism. Vein-type quartz and clay-altered andesite (?) porphyry have been found in the immediate Lee Zone area. Rhyolite float anomalous in gold, arsenic and mercury has been found 800 m to the west.

Wind Zone

The Wind Zone (Figure 5) is characterized by brecciated quartz-feldspar porphyry intrusions in Paleozoic metamorphic rocks, as indicated from lithologic distributions in trenched overburden. The nearest outcrop is over 1 km away. Rhyolitic and chalcedonic breccias are associated with the porphyry intrusions, along with quartz and chalcedonic veinlets. No sulfide minerals have been identified.

Rock analyses returned up to 740 ppb gold, with low order anomalies in arsenic and mercury. Gold values in soil range up to 35 ppb. Silver, lead, arsenic, antimony and mercury are at background levels.

Other mineralization

Old bulldozer trenches have been located at several areas on the McDade property, especially at the northern and southern corners. Although the original targets of these trenches is unknown, minor copper (?) mineralization has been identified at the trenches near Rowlinson Creek, and felsic porphyry dikes have been found at the southern trenches west of Minnesota Creek.

GEOCHEMISTRY

A total of 513 samples were taken during the 1986 exploration program on the McDade property. Of these, geochemical analyses were made for total gold, silver, lead, arsenic, and antimony content on 37 rock, 113 stream sediment, and 333 soil samples, with 30 soil samples not analyzed. Mercury analyses were made on 37 rock and 55 soil samples. The analytical work was performed by CDN Resource Laboratories Ltd. of Delta, B.C. using industry accepted methods described in the Appendix to this report. Results are shown on Figure 6.

Rock samples were taken of altered, veined, and/or mineralized material, and were all from float. Soil samples were taken from B-Horizon soil on a reconnaissance basis from geologically favorable zones such as areas underlain by altered or volcanic lithologies, at depths ranging from 10 cm to 200 cm (in trenches). Stream sediment samples were taken conventionally from as many creeks and tributaries as time would allow. Both soil and sediment samples were taken with as little Recent volcanic ash content as possible.

Statistical analyses were made for each element, as shown in Table 2. Values above or below the detection limit were entered at the detection limit.

Rock Samples

Gold, antimony, and mercury appear to be the main elements of interest, ranging up to 950 ppb, greater than 5000 ppb, and greater than 5000 ppm respectively. The majority of the high rock samples come from the Lee Zone. Rocks anomalous in gold are also found at the Wind Zone, in quartz and rhyolite found in the creek valley west of the Lee Zone (# 264002 and 264003); in veined altered gneiss and schist in the creek southeast of the Lee Zone (# 264004); in veined hematized gneiss (# 264008 and 264009) from the "Red Trench"; and from veined silicified rhyolite (# 264005) found in old trenches at Rowlinson Creek.

Soil Samples

Gold values in soil range from 5 to 230 ppb. Definitely anomalous values are clustered at the west-central part of the property, east of Victoria Creek. Clay altered rhyolite float has been found here.

T A B L E 2 .
 Statistical Analysis of Geochemical Data From McDade Property.

Criteria	Au ppb	Ag ppm	Pb ppm	As ppm	Sb ppm	Hg ppb
=====						
FOR ALL SAMPLES:						
Number:	483	483	483	483	483	92
Average:	39.5	0.2	12.3	13.8	69.4	819.1
Maximum:	950	2.7	370	120	5000	5000
Minimum:	5	0.1	1	1	1	30
Variance:	7860.0	0.0	328.6	237.1	308797.5	2166929.7
Std. Devn.:	88.7	0.2	18.1	15.4	555.7	1472.0
Background <:	39.5	0.2	12.3	13.8	69.4	819.1
Poss. Anom <:	128.2	0.4	30.4	29.2	625.1	2291.2
Prob. Anom <:	216.8	0.6	48.5	44.6	1180.8	3763.2
Defy. Anom >:	216.8	0.6	48.5	44.6	1180.8	3763.2
FOR ROCK SAMPLES:						
Number:	37	37	37	37	37	37
Average:	173.5	0.1	7.9	36.7	857.1	1677.8
Maximum:	950	0.4	27	116	5000	5000
Minimum:	30	0.1	1	4	1	40
Variance:	53776.8	0.0	45.0	882.2	3355166.	4001719.6
Std. Devn.:	231.9	0.1	6.7	29.7	1831.7	2000.4
Background <:	173.5	0.1	7.9	36.7	857.1	1677.8
Poss. Anom <:	405.4	0.2	14.7	66.4	2688.8	3678.3
Prob. Anom <:	637.3	0.2	21.4	96.1	4520.5	5678.7
Defy. Anom >:	637.3	0.2	21.4	96.1	4520.5	5678.7
FOR SOIL & SEDIMENT SAMPLES:						
Number:	446	446	446	446	446	55
Average:	28.4	0.2	12.6	11.9	4.0	241.5
Maximum:	470	2.7	370	120	290	1820
Minimum:	5	0.1	1	1	1	30
Variance:	2437.8	0.1	350.5	136.6	326.9	102852.4
Std. Devn.:	49.4	0.2	18.7	11.7	18.1	320.7
Background <:	28.4	0.2	12.6	11.9	4.0	241.5
Poss. Anom <:	77.8	0.4	31.4	23.6	22.1	562.2
Prob. Anom <:	127.2	0.6	50.1	35.3	40.2	882.9
Defy. Anom >:	127.2	0.6	50.1	35.3	40.2	882.9

Stream Sediment Samples

Gold values in sediments range from 5 to 470 ppb. Most of the definitely anomalous values can be grouped into two areas: (1) east and southeast of the Wind Zone, and (2) west and south of the Lee Zone.

CONCLUSIONS AND RECOMMENDATIONS

The McDade property is underlain by Paleozoic metamorphic rocks which have undergone at least three separate Cretaceous plutonic-volcanic episodes. Tertiary volcanism is not known in the immediate area, but may be present. Known gold-silver deposits in the Dawson Range Gold Belt are closely associated with volcanic/intrusive centers. Similar centers on the McDade property therefore provide a setting that is highly permissive for the development of precious metal deposits.

The property is an epithermal gold-silver prospect. Potential exists for hosting both disseminated gold in volcanic porphyries and vein-type gold. Mineralization located to date consists of quartz-stibnite-chalcedony breccia at the Lee Zone and lithic-quartz-chalcedony breccia at the Wind Zone. Gold values in float range up to 950 ppb (0.028 opt) and 740 ppb (0.022 opt) respectively. Gold/silver ratios are very high. Although extensive bulldozer trenching was completed as part of the current work program, bedrock has not been exposed at either area. Detailed soil geochemistry carried out directly over both zones has not been able to resolve bedrock gold mineralization.

Anomalous mercury and antimony values (exceeding 5000 ppb and 5000 ppm respectively), in addition to gold, have been found in rock samples from the Lee Zone. Geochemistry has outlined anomalous gold and/or antimony from stream sediments and soil samples to the west, south, and east. In addition, altered rhyolite and vein-type quartz anomalous in gold and mercury has been found 800 m to the west. No sampling or trenching has yet been carried out to the north. When considered with the lithological, geochemical, mineralogical and alteration setting, the Lee Zone may represent an outer or upper margin to a major epithermal gold deposit.

The Wind Zone is also characteristic of the geochemical and mineralogical setting of a major gold deposit. Although geochemical values are not as high as at the Lee Zone, a series of stream sediments to the east outline an area 1200 x 800 m with definitely anomalous gold values (up to 220 ppb). Gold mineralization controlled by a volcanic center with associated quartz and chalcedony breccias is therefore indicated.

Gold (+/- antimony, arsenic, lead, and silver) anomalies elsewhere on the property are also indicative of gold mineralization. The most significant of these is probably the zone of anomalous gold in soil east of Victoria Creek. The identification of rhyolite float is coincident with the high gold values, and again may represent mineralization associated with a volcanic lithology.

Extensive overburden and a lack of outcrop make mineral exploration difficult on this large property. Because the Dawson Range escaped Pleistocene continental glaciation, a well developed pre-Quaternary weathered surface has been preserved. This makes the visual identification of alteration and mineralization difficult; however the deeply weathered rocks and potential ores within them may be suitable for heap leaching. Given ideal conditions, a four million tonne deposit grading 1.7 g/t (0.050 opt) should be economically feasible in the Dawson Range (Eaton and Main 1986).

Based on results of surface exploration carried out on the McDade property in 1986, further work is warranted. The following is recommended:

1. More bulldozer trenching with combined mapping and sampling should be carried out over and about the Lee Zone. It may not be possible to reach bedrock on a first attempt because of permafrost; therefore pre-stripping may be required.
2. Bulldozer trenching should be initiated in the area of the anomalous stream sediments east of the Wind Zone, combined with mapping and sampling.
3. Follow up on the anomalous stream sediment and soil samples with more detailed sampling, mapping and possible bulldozer trenching.
4. Should any of the above targets yield positive results, drilling may be warranted. Induced Polarization surveying may facilitate a better understanding of geometry prior to drilling.

Respectfully submitted,



January 27, 1987

Harmen J. Keyser, B.Sc.

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STATEMENT OF QUALIFICATIONS

I, HARMEN J. KEYSER, hereby certify that:

1. I am a geologist with AURUM GEOLOGICAL CONSULTANTS INC., 604-675 West Hastings Street, Vancouver, British Columbia.
2. I am a graduate of Saint Mary's University, Halifax, with a degree in geology (B.Sc., 1981) and have been involved in geology and mineral exploration continuously since then.
3. I am a member of the Geological Association of Canada (A3759).
4. I have no direct or indirect interest in the properties of Mr. Gordon F. Dickson.
5. I am the author of this report on the McDade Property, Dawson Range, Yukon which is based on my personal examination of the ground October 9-20, 1986, and on referenced sources.



January 27, 1987

Harmen J. Keyser, B.Sc.

STATEMENT OF COSTS

Assessment Work Valuation; McDade Property

1. Geological and Geochemical

A. Fieldwork

R. Hulstein, B.Sc., of Vancouver, B.C. Oct. 9-20, 1986; 12 days @ 250/day:	\$ 3000.00
H. Keyser, B.Sc., of Vancouver, B.C. Oct. 8-20, 1986; 13 days @ 250/day:	3250.00
Groceries, Camp Supplies, Consumables:	1690.00
4WD Truck Rental; 13 days x \$100:	1300.00
ATC Rental; 13 days x 2 x \$50:	1300.00

B. Geochemical Analyses

37 rocks:	734.45
446 soils and sediments:	6530.90

C. Rock Assays

6 rocks:	87.00
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D. Mobilization, Demobilization, Sample Shipments

Inclusive costs:	873.00
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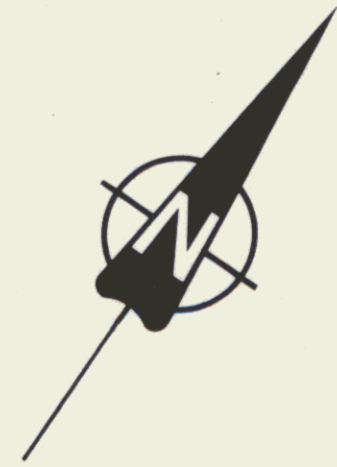
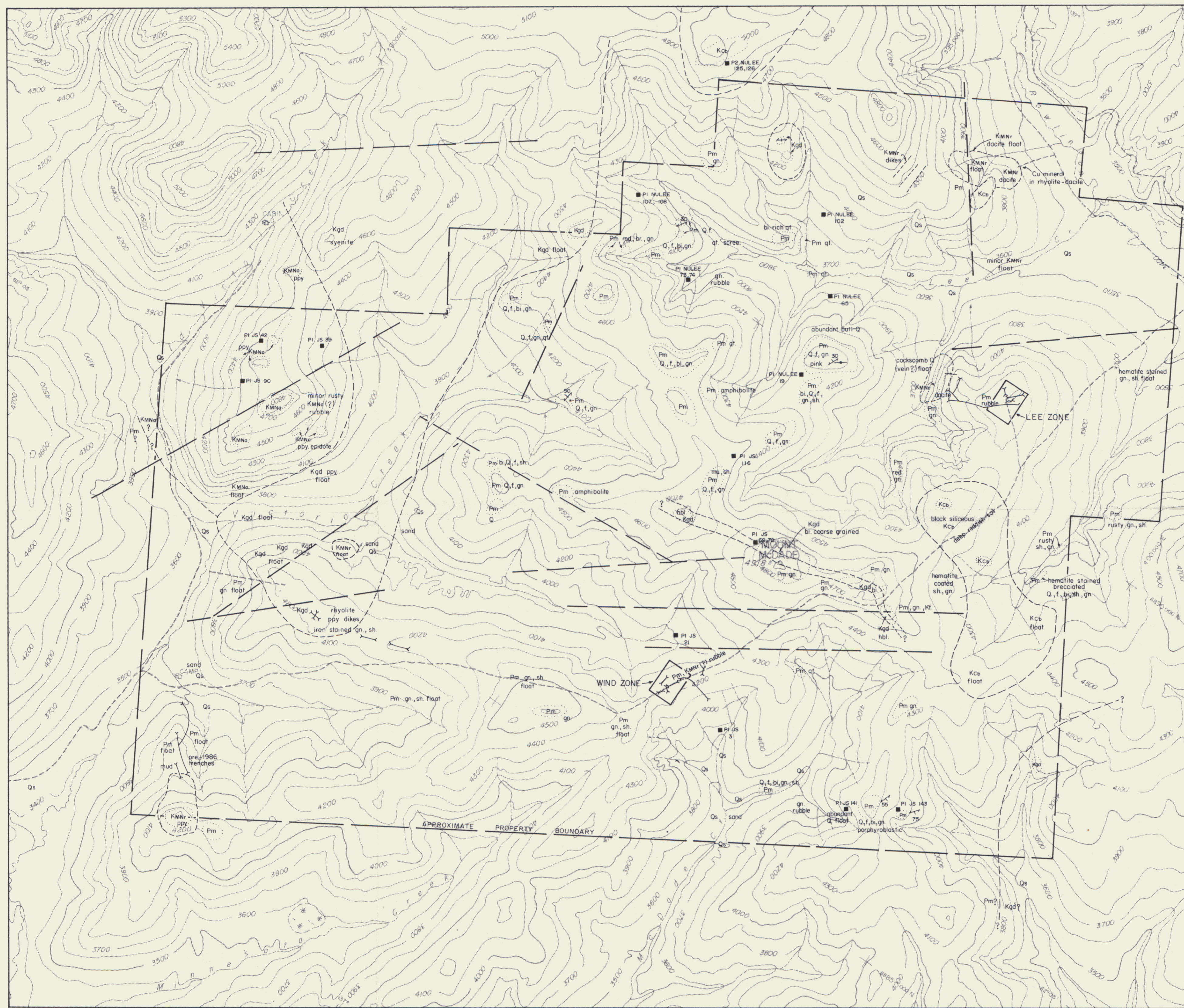
E. AirPhoto Interpretation, and Report Preparation

R. Hulstein, B.Sc. Oct. 22, 23, 1986; 2 days @ 250:	500.00
H. Keyser, B.Sc. Oct. 22, 1986 to January 27, 1987; 12 days @ 250:	3000.00
Computer time; 4 hrs @ 50/hr:	200.00
Drafting:	1070.00
Reprographics and typing:	476.00
Subtotal:	<u>\$ 24,011.35</u>

2. Trenching

Gordon Dickson of Whitehorse, Yukon. Caterpillar D3B with backhoe attachment; June-Oct., 1986; 1070 hrs @ 60.00/hr:	64200.00
Support Costs; Truck, groceries, consumables:	5000.00
Subtotal:	<u>\$ 69,200.00</u>

Total Valuation of 1986 Assessment Work: \$93,211.35



LEGEND

LITHOLOGIES

QUATERNARY (and older)
 Qs unconsolidated surficial debris

CRETACEOUS

Kcb CARMACKS GROUP: basalt
 KMna MOUNT NANSEN GROUP: andesite
 KMnr MOUNT NANSEN GROUP: rhyolite, dacite
 Kgd granodiorite, syenite

PALEOZOIC (?)

Pm PELLY GNEISS COMPLEX (?)
 gneiss, schist, quartzite

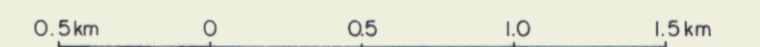
Abbreviations

gn gneiss bi biotite
 sh schist mu muscovite
 qt quartzite hbl hornblende
 Q quartz ppy porphyry
 f feldspar P post
 Kf potassium feldspar

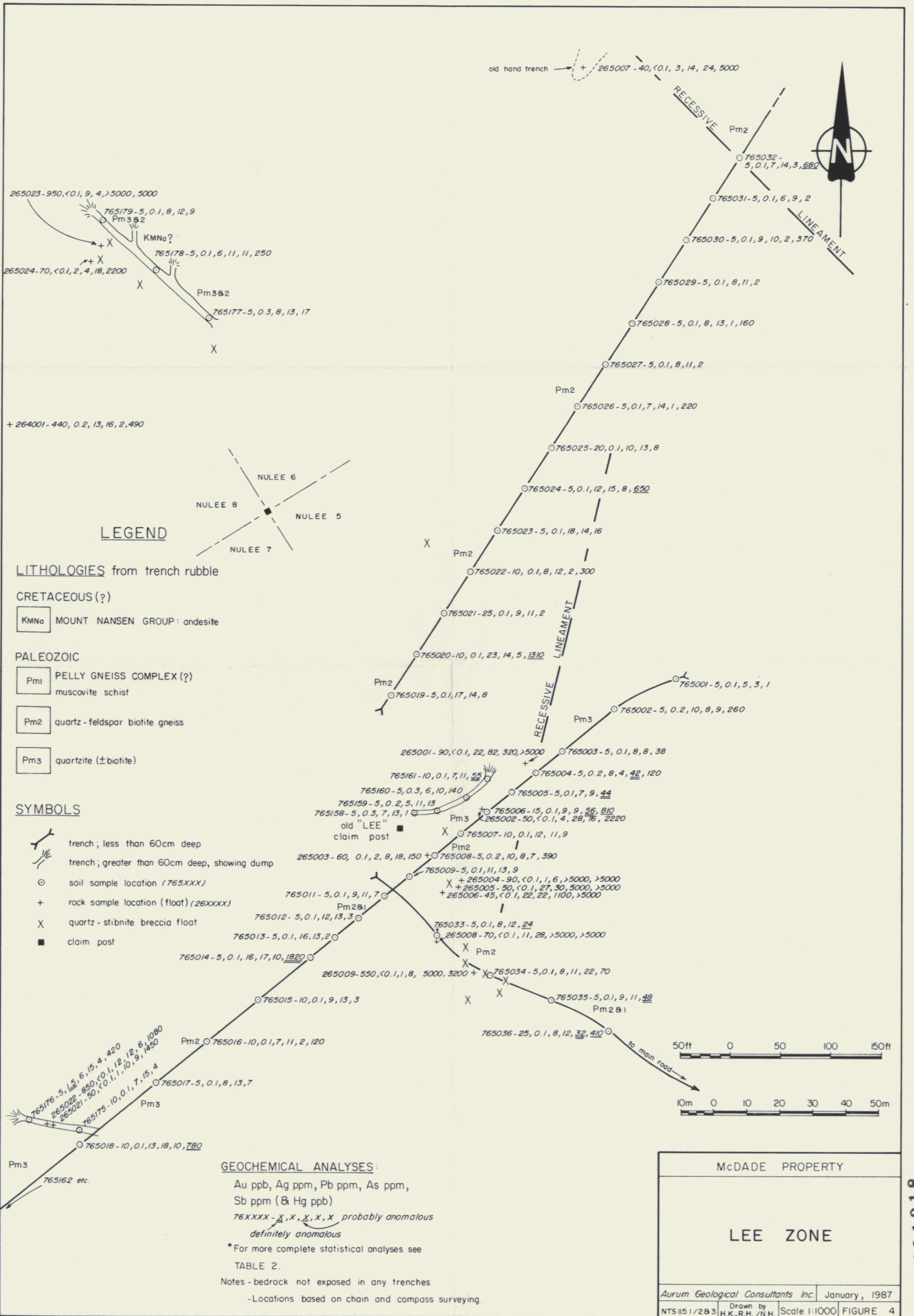
SYMBOLS

— trench
 ■ claim post; refer to FIGURE 2
 --- creek
 4400 elevation contour; interval 100 ft
 --- "cat" trail
 50 attitude of bedding/structure
 30 attitude of foliation
 attitude of jointing
 ○ distribution of outcrop
 --- approximate/assumed lithologic contact
 --- airphoto lineament

Note - all locations subject to survey
 - geological mapping by R. Hulstein and H. Keyser, Oct. 1986,
 with additions from Carlson, 1986



McDADE PROPERTY	
GEOLOGY	
Aurum Geological Consultants Inc. JANUARY, 1987	
NTS 115 1/2 B 3	Drawn by R.H./H.K./N.H. Scale 1:25,000 FIGURE 3



LEGEND

LITHOLOGIES from trench rubble

CRETACEOUS(?)

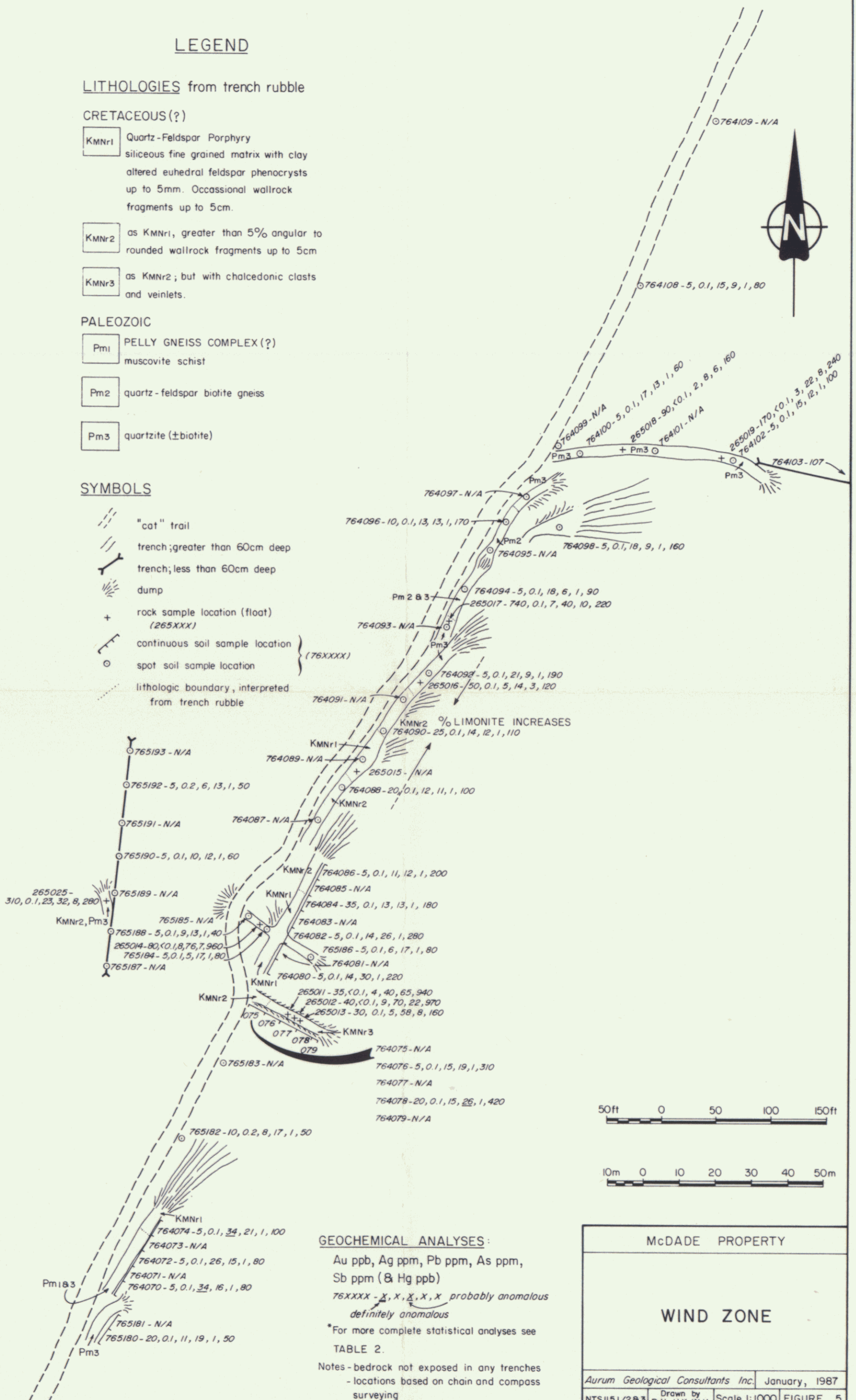
- KMnr1** Quartz-Feldspar Porphyry
siliceous fine grained matrix with clay altered euhedral feldspar phenocrysts up to 5mm. Occasional wallrock fragments up to 5cm.
- KMnr2** as KMnr1, greater than 5% angular to rounded wallrock fragments up to 5cm
- KMnr3** as KMnr2; but with chalcedonic clasts and veinlets.

PALEOZOIC

- Pm1** PELY GNEISS COMPLEX(?)
muscovite schist
- Pm2** quartz-feldspar biotite gneiss
- Pm3** quartzite (±biotite)

SYMBOLS

- "cat" trail
- trench; greater than 60cm deep
- trench; less than 60cm deep
- dump
- rock sample location (float) (265XXX)
- continuous soil sample location (76XXXX)
- spot soil sample location
- lithologic boundary, interpreted from trench rubble



GEOCHEMICAL ANALYSES:

Au ppb, Ag ppm, Pb ppm, As ppm,
Sb ppm (& Hg ppb)
76XXXX - X, X, X, X, X probably anomalous
definitely anomalous

*For more complete statistical analyses see
TABLE 2.

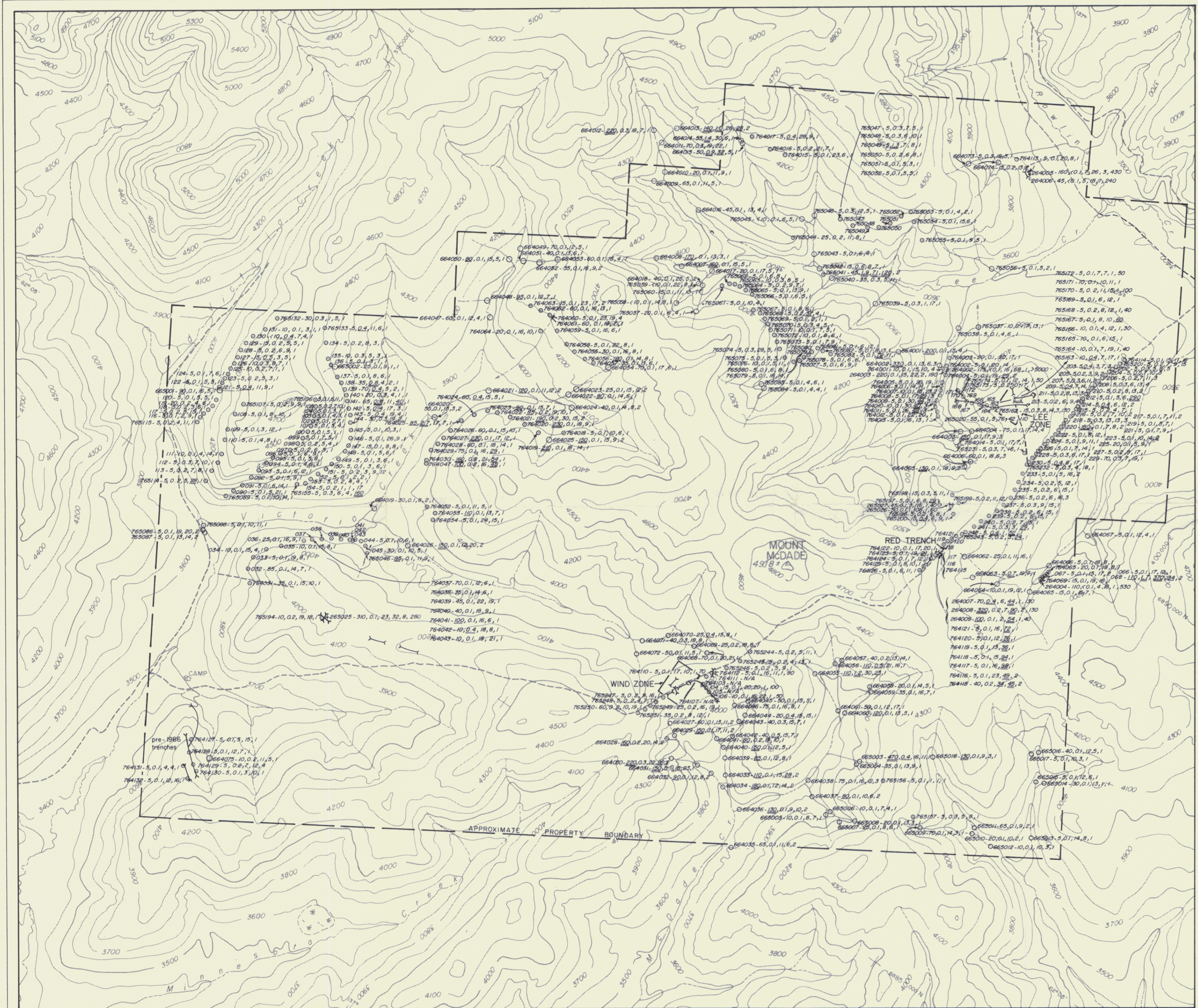
Notes - bedrock not exposed in any trenches
- locations based on chain and compass
surveying

50ft 0 50 100 150ft

10m 0 10 20 30 40 50m

McDADE PROPERTY	
WIND ZONE	
Aurum Geological Consultants Inc.	January, 1987
NTS1151/2B3	Scale 1:1000 FIGURE 5

816160



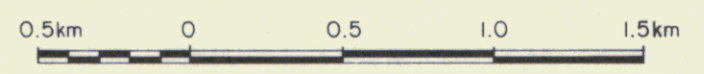
LEGEND

- SYMBOLS**
- trench
 - creek
 - elevation contour; interval 100ft.
 - "Cat" trail
 - 765111-10,01,4,4, soil sample location
 - 065501-65,01,9,2, stream sediment sample location
 - +265020-55,01,5, rock sample location
 - 76, 42, 110 sample number - Au ppb, Ag ppm, Pb ppm, As ppm, Sb ppm (& Hg ppb)

GEOCHEMICAL ANALYSES

76XXXX - X, X, X, X, X probably anomalous
definitely anomalous

	Au_ppb	Ag_ppm	Pb_ppm	As_ppm	Sb_ppm	Hg_ppb
Background	<28.4	<0.2	<12.6	<11.9	<4.0	<241.5
Possibly Anomalous	28.4-77.8	0.2-0.4	12.6-31.4	11.9-23.6	4.0-22.1	241.5-562.2
Probably Anomalous	77.8-127.2	0.4-0.6	31.4-50.1	23.6-35.3	22.1-40.2	562.2-882.9
Definitely Anomalous	>127.2	>0.6	>50.6	>35.3	>40.2	>882.9



McDADE PROPERTY

GEOCHEMISTRY

Aurum Geological Consultants Inc.	JANUARY, 1987
NTS 115 I / 2 & 3 Drawn by R.H., H.K., N.H.	Scale 1:25,000 FIGURE 6

APPENDIX

AURUM GEOLOGICAL CONSULTANTS INC.

ROCK SAMPLE LOCATION AND DESCRIPTION RECORD

Date: Oct, 1986	Project: McDade	NTS: 115 I/2&3	Area: Victoria Creek, Yukon	Samplers: RH & HK	Lab: CDN					
Sample No.	Location	Description	Attitude	Width	Au ppb	Ag ppm	Pb ppm	As ppm	Sb ppm	Hg ppb
265001	Lee Zone	Silicified lithic breccia with weak fabric. Minor Mn and Sb (?) staining on fractures. Vuggy. Minor chalcedonic fracture fillings. One piece found 5x10x10 cm. Wall rock here is apparently light green sericitized quartzite.	Float in trench.		90	0.1	22	82	320	5000
265002	Lee Zone	Vuggy pink siliceous material; possible quartz vein.	Float		50	0.1	4	28	16	2220
265003	Lee Zone	Massive white bull quartz. Minor hematite staining on fractures.	Float		60	0.1	2	8	18	150
265004	Lee Zone	Vuggy brecciated light green quartzite. Chalcedonic and cockscornb quartz veinlets. Stibnite on fractures.	Float		90	0.1	1	6	5000	5000
265005	Lee Zone	Chalcedonic breccia in quartzite. Vuggy, minor stibnite.	Float		50	0.1	27	30	5000	5000
265006	Lee Zone	Porous textured quartz with intergrown crystals. Rusty colored.	Float		45	0.1	22	22	1100	5000
265007	Lee Zone	Chalcedonic-quartz breccia.	Float in old trench.		40	0.1	3	14	24	5000
265008	Lee Zone	Brecciated quartz vein-type material. Massive stibnite veinlets to 1 cm totalling 10%	Float		70	0.1	11	28	5000	5000
265009	Lee Zone	Quartz-stibnite breccia with lithic (mainly quartzite) fragments. Very abundant at this location. Wall rock appears to be banded quartzite.	Float		550	0.1	1	8	5000	3200
265010	Lee Zone	Quartz-chalcedony-lithic breccia. < 1% stibnite. One piece found 5x5x5 cm.	Float		45	0.1	8	28	5000	5000
265011	Wind Zone	Lithic breccia. Porphyritic rhyolite and chalcedonic matrix with gneiss, rhyolite, chalcedonic clasts; angular to rounded up to 4 cm. Minor vugs, no sulfides noted. Overall strong clay alteration except silicate minerals.	Float in trench		35	0.1	4	40	65	940

AURUM GEOLOGICAL CONSULTANTS INC.

ROCK SAMPLE LOCATION AND DESCRIPTION RECORD

Date:	Project:	NTS:	Area:	Samplers:	Lab:					
Oct, 1986	McDade	115 I/2&3	Victoria Creek, Yukon	RH & HK	CDN					
Sample No.	Location	Description	Attitude	Width	Au ppb	Ag ppm	Pb ppm	As ppm	Sb ppm	Hg ppb
265012	Wind Zone	Dirty quartz-lithic breccia. Heavy Fe staining throughout. Clasts subangular up to 5 cm. Minor vugs. Highly altered. Possible tuff unit. Very abundant.	Float in trench		40	0.1	9	70	22	970
265013	Wind Zone	Clay altered rusty quartzite-textured lithic material. Highly altered, only 1 piece found. 20% limonite irregularly distributed.	Float		30	0.1	5	58	8	160
265014	Wind Zone	Essentially KMMr 1 with some quartz and chalcedony filled fractures.	Float		80	0.1	8	76	7	960
265015	Wind Zone	Essentially KMMr 2 with 20% irregularly distributed limonite.	Float		45	0.1	7	38	5	270
265016	Wind Zone	As above. Lithic fragments may be rhyolite. Sample may be Fe-cemented overburden.	Float		50	0.1	5	14	3	120
265017	Wind Zone	Partly silicified lithic breccia, with minor quartz-chalcedony veinlets. Fe and Mn staining. Clasts not identifiable, but may be Yukon Group.	Float		740	0.1	7	40	10	220
265018	Wind Zone	Vuggy quartzite crackle breccia. Minor Fe and Mn staining. White clays along fractures. Minor quartz and rhyolite-filled fractures.	Float		90	0.1	2	8	6	160
265019	Wind Zone	As above. Quartz and rhyolite filled fractures more abundant.	Float		170	0.1	3	22	8	240
265020	Lee Zone	Vuggy rusty Mn-stained quartz float. Selected chips from otherwise bland bull quartz boulder.	Float		55	0.1	5	76	42	110
265021	Lee Zone	Locally vuggy, brecciated white bull quartz.	Float		50	0.1	1	10	9	1450
265022	Lee Zone	Intensely clay altered andesite (?) porphyry. Light grey-brown color. Minor quartz veinlets. Fe and Mn on fractures.	Float		850	0.1	12	12	6	1080
265023	Lee Zone	Quartz-stibnite breccia. Vuggy. Minor chalcedonic and stibnite	Float		950	0.1	9	4	5000	5000

AURUM GEOLOGICAL CONSULTANTS INC.

ROCK SAMPLE LOCATION AND DESCRIPTION RECORD

Date:	Project:	NTS:	Area:	Samplers:	Lab:											
Oct, 1986	McDade	115 I/2&3	Victoria Creek, Yukon	RH & HK	CDN	Sample No.	Location	Description	Attitude	Width	Au ppb	Ag ppm	Pb ppm	As ppm	Sb ppm	Hg ppb
								veinlets. Mn, Fe, Sb staining.								
265024	Lee Zone	Quartz-chalcedony breccia. 90% quartz/10% chalcedony. No sulfides noted, but minor yellowish Sb (?) staining. Vuggy.	Float								70	0.1	2	4	18	2200
265025	Wind Zone	Brecciated quartzite, with quartz, rhyolite, and Q-F-P matrix. Fe and Mn staining.	Float								310	0.1	23	32	8	280
265026	Small dome south of Lee Zone	Light brown and red chalcedony and jasper rubble. Maximum size 3cm3. Obvious subrounded breccia clasts within material completely replaced by silica. Host is "siliceous" KCh.	Float								50	0.1	1	108	1	60
265027	30 m SW of 026	As above but heavy limonite staining.	Float								45	0.1	3	116	1	40
265028	trench on ridge N of camp. G.D. sample.	Brecciated metasediments (?) with quartz matrix filling. Heavy limonite staining.	Float								30	0.1	12	20	1	80
264001	Lee Zone	Quartz-quartzite breccia. Clear quartz cockscomb texture. Minor clay alteration.	Float								440	0.2	13	16	2	490
264002	West of Lee Zone	Rhyolite float. Green, grey, and purple fractured with Mn staining. Vuggy crackle brecciated. Voids filled with limonite.	Float								175	0.1	16	68	1	5000
264003	As above	White Qtz breccia. Possibly Qtz vein, cockscomb texture; 0.5 to 1.0 cm scale.	Float								220	0.1	15	22	2	180
264004	2 km SE of Lee Zone	Clay altered gneiss and schist with minor Qtz veining.	Float								110	0.1	4	18	1	530
264005	Rowlinson Creek	Grey siliceous Qtz flooded fractured and brecciated rhyolite. Minor stockwork Qtz veinlets.	Float								160	0.1	7	26	3	430
264006	As above	Massive rhyolite-dacite with <0.5% Old Trenchblue (Cu ?) mineral specks <2mm across in groundmass. Minor Qtz stringers and Mn staining.	Float								45	0.1	5	18	1	240

AURUM GEOLOGICAL CONSULTANTS INC.

ROCK SAMPLE LOCATION AND DESCRIPTION RECORD

Date: Oct, 1986 Project: McDade NTS: 115 I/2&3			Area: Victoria Creek, Yukon			Samplers: RH & HK		Lab: CDN		
Sample No.	Location	Description	Attitude	Width	Au ppb	Ag ppm	Pb ppm	As ppm	Sb ppm	Hg ppb
264007	Red Trench	Intensely clay altered gneiss or possibly fine-medium grained Qtz-feldspar porphyry cut by brecciated Qtz-chalcedony veinlets (<5 % of total sample). Strong hematitic and limonitic staining.	Float		70	0.4	6	44	1	130
264008	Red Tr.	Qtz-chalcedony veining, 50% of sample in altered gneiss ? Strong Fe staining.	Float		320	0.2	7	90	2	130
264009	Red Tr.	Composite sample from hematite zone in trench. Bull Qtz, biotite gneiss, Qtz-feldspar gneiss.	Float		100	0.1	2	54	1	40

ANALYTICAL METHODS

All analytical work was performed by CDN Resource Laboratories Ltd., #8-7550 River Road, Delta, B.C. by methods described below.

Sample Preparation

Rock samples are crushed and pulverized to -100 (inch) mesh. Soil and sediment samples are dried at room temperature, then sieved to retain the -80 (inch) mesh fraction.

Analytical Methods

<u>Element</u>	<u>Method</u>
Au	A 10 g sample (soils and stream sediments) or a 15 g sample (rocks) is fire assayed to a Pb button, then cupelled to a Ag bead. The Ag is dissolved in 0.5 ml of HNO ₃ in a hot H ₂ O bath. After complete solution, 1.5 ml of HCl is added to form aqua regia, dissolving Au & Ag. Following complete digestion, the sample is diluted to 5 ml and aspirated into an atomic absorption spectrophotometer (AAS) for Au analysis. Lower detection limit: 5 ppb.
Ag, Pb	A 0.5 g sample is digested in 1 ml of HNO ₃ and 2 ml of HCl for 90 minutes at 90° C in a hot water bath. Then the sample is diluted to 1.0 ml and aspirated into an AAS for Ag and Pb. Lower detection limit: Ag; 0.1 ppm Pb; 1.0 ppm.
As, Sb	(a) Samples containing more than 100 ppm of either element are determined directly from Ag-Pb solution by AAS. (b) Samples containing less than 100 ppm by reducing a 0.5 ml aliquot of the Ag-Pb solution 0.5 ml of 20% KI for 1 hour at room temperature. The sample is then diluted to 5 ml and hydride generation analysis is by AAS. Lower detection limits: 1 ppm.
Hg	A 0.5 ml aliquot of the Ag-Pb solution is analyzed by cold vapor generation on the AAS. Lower detection limit: 10 ppb.

CDN RESOURCE LABORATORIES LTD.

#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

GEOCHEMICAL REPORT

To: Aurum Geological Consultants Inc.
1614 - 675 West Hastings
Vancouver, B.C.
V6B 4W3

Number: 86362
Date: November 4, 1986
Proj.: McDade

Attn: Harmen Keyser

	Au ppb	Ag ppm	Pb ppm	As ppm	Sb ppm	Hg ppt
G264001	440	0.2	13	16	2	490
G264002	175	<0.1	16	68	1	>5000
G264003	220	0.1	15	22	2	180
G264004	110	<0.1	4	18	1	530
G264005	160	<0.1	7	26	3	430
G264006	45	<0.1	5	18	1	240
G264007	70	0.4	6	44	1	130
G264008	320	0.2	7	90	2	130
G264009	100	0.1	2	54	1	40
G265001	90	<0.1	22	82	320	>5000
G265002	50	<0.1	4	28	16	2220
G265003	60	<0.1	2	8	18	150
G265004	90	<0.1	1	6	>5000	>5000
G265005	50	<0.1	27	30	5000	>5000
G265006	45	<0.1	22	22	1100	>5000
G265007	40	<0.1	3	14	24	5000
G265008	70	<0.1	11	28	>5000	>5000
G265009	550	<0.1	1	8	>5000	3200
G265010	45	<0.1	8	28	>5000	>5000
G265011	35	<0.1	4	40	65	940
G265012	40	<0.1	9	70	22	970
G265013	30	<0.1	5	58	8	160
G265014	80	<0.1	8	76	7	960
G265015	45	<0.1	7	38	5	270
G265016	50	0.1	5	14	3	120
G265017	740	0.1	7	40	10	220
G265018	90	<0.1	2	8	6	160
G265019	170	<0.1	3	22	8	240
G265020	55	0.1	5	76	42	110
G265021	50	<0.1	1	10	9	1450
G265022	850	<0.1	12	12	6	1080
G265023	950	<0.1	9	4	>5000	5000
G265024	70	<0.1	2	4	18	2200
G265025	310	0.1	23	32	8	280
G265026	50	0.1	1	108	1	60
G265027	45	0.1	3	116	1	40
G265028	30	0.1	12	20	1	80

Duncan Sanderson

CDN RESOURCE LABORATORIES LTD.

#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

GEOCHEMICAL REPORT

To: Aurum Geological Consultants Inc.
1614 - 675 West Hastings
Vancouver, B.C.
V6B 4W3

Number: 86362
Date: November 4, 1986
Proj.: McDade

Attn: Harmen Keyser

	Au ppb	Ag ppm	Pb ppm	As ppm	Sb ppm
G 664001	200	0.1	15	4	1
G 664002	330	0.1	13	6	3
G 664003	150	0.1	17	9	3
G 664004	75	0.1	17	14	4
G 664005	130	0.1	18	9	2
G 664006	60	0.1	18	6	3
G 664007	160	0.1	15	5	1
G 664008	170	0.1	13	3	1
G 664009	65	0.1	11	5	1
G 664010	20	0.1	11	9	1
G 664011	70	0.3	19	22	1
G 664012	220	0.3	18	7	1
G 664013	140	1.0	28	28	2
G 664014	55	1.4	30	6	1
G 664015	50	0.9	32	5	1
G 664016	45	0.1	13	4	1
G 664017	20	0.1	17	5	1
G 664018	40	0.1	25	5	2
G 664019	30	0.1	8	2	1
G 664020	55	0.1	13	3	2
G 664021	120	0.1	11	12	2
G 664022	80	0.1	14	6	2
G 664023	25	0.1	15	12	2
G 664024	40	0.1	14	8	2
G 664025	150	0.1	15	9	2
G 664026	150	0.1	12	20	2
G 664027	60	0.1	13	11	2
G 664028	160	0.2	20	14	2
G 664029	150	0.1	17	11	2
G 664030	220	0.3	22	26	2
G 664031	150	0.1	16	23	1
G 664032	90	0.1	12	8	2
G 664033	110	0.1	15	28	2
G 664034	180	0.1	12	14	2
G 664035	65	0.1	11	6	2
G 664036	130	0.1	9	10	2
G 664037	80	0.1	10	6	2
G 664038	75	0.1	16	12	3
G 664039	85	0.1	12	8	1
G 664040	150	0.1	12	5	1

Duncan Sanderson

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To: Aurum Geological Consultants Inc.
1614 - 675 West Hastings
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V6B 4W3

Number: 86362
Date: November 4, 1986
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Attn: Harmen Keyser

	Au ppb	Ag ppm	Pb ppm	As ppm	Sb ppm
G 664041	80	0.2	13	10	1
G 664042	40	0.5	15	7	1
G 664043	40	0.3	15	7	1
G 664044	20	0.4	15	15	1
G 664045	50	0.1	15	5	1
G 664046	75	0.1	16	8	1
G 664047	60	0.1	12	4	1
G 664048	95	0.1	12	7	1
G 664049	70	0.1	12	5	1
G 664050	80	0.1	15	5	1
G 664051	40	0.1	13	6	1
G 664052	35	0.1	16	9	2
G 664053	60	0.1	16	4	1
G 664054	70	0.1	17	6	1
G 664055	110	1.2	30	23	1
G 664056	110	0.5	21	16	1
G 664057	40	0.2	13	14	1
G 664058	20	0.1	14	5	1
G 664059	35	0.1	16	7	1
G 664060	120	0.1	13	5	1
G 664061	50	0.1	12	17	1
G 664062	25	0.1	11	16	1
G 664063	5	0.7	19	7	1
G 664064	10	0.1	19	12	1
G 664065	15	0.1	15	7	1
G 664066	5	0.1	18	8	1
G 664067	5	0.1	12	4	1
G 664068	70	0.1	20	21	1
G 664069	25	0.2	18	8	1
G 664070	25	0.4	15	8	1
G 664071	40	0.3	18	8	1
G 664072	50	0.1	11	5	1
G 664073	5	0.3	18	3	1
G 664074	15	0.2	13	2	1
G 664075	10	0.2	11	5	1
G 665001	90	0.1	16	5	1
G 665002	25	0.1	9	1	1
G 665003	470	0.4	16	11	1
G 665004	35	0.1	13	9	1
G 665005	10	0.1	8	7	1

Duncan Anderson

CDN RESOURCE LABORATORIES LTD.

#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

GEOCHEMICAL REPORT

To: Aurum Geological Consultants Inc.
1614 - 675 West Hastings
Vancouver, B.C.
V6B 4W3

Number: 86362
Date: November 4, 1986
Proj.: McDade

Attn: Harmen Keyser

	Au ppb	Ag ppm	Pb ppm	As ppm	Sb ppm
G 665006	10	0.1	7	4	1
G 665007	25	0.1	8	6	1
G 665008	20	0.1	13	3	1
G 665009	70	0.1	14	3	1
G 665010	20	0.1	10	2	1
G 665011	65	0.1	9	2	1
G 665012	10	0.1	10	3	1
G 665013	5	0.1	14	8	1
G 665014	30	0.1	13	1	1
G 665015	5	0.1	12	6	1
G 665016	40	0.1	12	5	1
G 665017	5	0.1	10	3	1
G 665018	130	0.1	9	3	1
G 764001	10	0.1	15	10	4
G 764002	5	0.1	20	14	1
G 764003	20	0.1	20	17	1
G 764004	5	0.1	19	29	2
G 764005	5	0.1	20	19	1
G 764006	5	0.1	14	11	1
G 764007	10	0.1	15	23	2
G 764008	5	0.1	17	29	3
G 764009	5	0.1	30	44	3
G 764010	10	0.1	30	40	3
G 764011	5	0.1	26	48	3
G 764012	5	0.1	22	20	1
G 764013	5	0.1	16	13	1
G 764014	5	0.1	17	7	1
G 764015	5	0.1	23	6	1
G 764016	5	0.2	21	7	1
G 764017	5	0.4	28	9	1
G 764018	5	0.1	10	6	1
G 764019	210	0.1	18	14	1
G 764020	230	0.1	18	9	1
G 764021	190	0.2	30	15	2
G 764022	85	0.2	19	10	1
G 764023	90	0.1	15	7	1
G 764024	60	0.4	15	5	1
G 764025	85	2.7	17	7	1
G 764026	60	0.1	15	10	1
G 764027	230	0.1	17	12	1

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CDN RESOURCE LABORATORIES LTD.

#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

GEOCHEMICAL REPORT

To: Aurum Geological Consultants Inc.
1614 - 675 West Hastings
Vancouver, B.C.
V6B 4W3

Number: 86362
Date: November 4, 1986
Proj.: McDade

Attn: Harmer Keyser

	Au ppb	Ag ppm	Pb ppm	As ppm	Sb ppm
G 764028	60	0.1	18	14	1
G 764029	75	0.1	16	29	1
G 764030	160	0.2	21	54	1
G 764031	35	0.1	15	10	1
G 764032	55	0.1	14	7	1
G 764033	5	0.1	19	8	1
G 764034	10	0.1	15	4	1
G 764035	10	0.1	15	8	1
G 764036	25	0.1	16	9	1
G 764037	70	0.1	12	6	1
G 764038	35	0.1	14	6	1
G 764039	45	0.1	22	19	1
G 764040	40	0.1	18	9	1
G 764041	100	0.1	16	6	1
G 764042	10	0.4	18	8	1
G 764043	10	0.1	18	21	1
G 764044	5	0.1	10	6	1
G 764045	30	0.1	10	5	1
G 764046	95	0.1	11	9	1
G 764047	100	0.2	16	48	1
G 764048	30	0.1	18	22	1
G 764049	40	0.1	21	16	1
G 764050	40	0.1	17	13	1
G 764051	10	0.1	17	7	1
G 764052	5	0.1	11	5	1
G 764053	110	0.1	13	7	1
G 764054	5	0.1	24	15	1
G 764055	30	0.1	16	8	1
G 764056	120	0.1	14	8	1
G 764057	35	0.1	13	6	1
G 764058	5	0.1	22	8	1
G 764059	5	0.1	16	6	1
G 764060	5	0.1	23	19	4
G 764061	60	0.1	19	7	1
G 764062	60	0.1	16	13	1
G 764063	15	0.1	23	17	2
G 764064	20	0.1	16	10	1
G 764065	20	0.1	18	8	1
G 764066	5	0.1	17	12	1
G 764067	5	0.1	15	17	2

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CDN RESOURCE LABORATORIES LTD.

#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

GEOCHEMICAL REPORT

To: Aurum Geological Consultants Inc.
1614 - 675 West Hastings
Vancouver, B.C.
V6B 4W3

Number: 86362
Date: November 4, 1986
Proj.: McDade

Attn: Harmen Keyser

	Au ppb	Ag ppm	Pb ppm	As ppm	Sb ppm	Hg ppb
G 764068	110	1.7	370	34	2	
G 764069	15	0.1	19	16	1	
G 764070	5	0.1	34	16	1	80
G 764072	5	0.1	26	15	1	80
G 764074	5	0.1	34	21	1	100
G 764076	5	0.1	15	19	1	310
G 764078	20	0.1	15	26	1	420
G 764080	5	0.1	14	30	1	220
G 764082	5	0.1	14	26	1	280
G 764084	35	0.1	13	13	1	180
G 764086	5	0.1	11	12	1	200
G 764088	20	0.1	12	11	1	100
G 764090	25	0.1	14	12	1	110
G 764092	5	0.1	21	9	1	190
G 764094	5	0.1	18	6	1	90
G 764096	10	0.1	13	13	1	170
G 764098	5	0.1	18	9	1	160
G 764100	5	0.1	17	13	1	60
G 764102	5	0.1	15	12	1	100
G 764104	15	0.1	20	20	1	100
G 764106	10	0.1	16	22	1	50
G 764108	5	0.1	15	9	1	80
G 764110	5	0.1	17	10	1	70
G 764112	5	0.1	16	11	1	80
G 764113	5	0.1	20	8	1	
G 764114	5	0.1	15	11	16	
G 764115	40	0.2	34	45	2	
G 764116	5	0.1	23	49	2	
G 764117	5	0.1	16	98	1	
G 764118	5	0.1	15	94	1	
G 764119	5	0.1	13	36	1	
G 764120	5	0.1	12	76	1	
G 764121	5	0.1	16	72	1	
G 764122	10	0.1	17	20	1	
G 764123	5	0.1	19	24	1	
G 764124	5	0.1	7	12	1	
G 764125	5	0.1	8	10	1	
G 764126	5	0.1	6	11	1	
G 764127	5	0.1	5	15	1	
G 764128	5	0.1	12	7	1	

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CDN RESOURCE LABORATORIES LTD.

#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

GEOCHEMICAL REPORT

To: Aurum Geological Consultants Inc.
1614 - 675 West Hastings
Vancouver, B.C.
V6B 4W3

Number: 86362
Date: November 4, 1986
Proj.: McDade

Attn: Harmen Keyser

	Au ppb	Ag ppm	Pb ppm	As ppm	Sb ppm	Hg ppb
G 764129	5	0.2	7	12	4	
G 764130	5	0.1	3	10	1	
G 764131	5	0.1	4	4	1	
G 764132	5	0.1	12	16	1	
G 765001	5	0.1	5	3	1	
G 765002	5	0.2	10	8	9	260
G 765003	5	0.1	8	8	38	
G 765004	5	0.2	8	4	42	120
G 765005	5	0.1	7	9	44	
G 765006	15	0.1	9	9	56	810
G 765007	10	0.1	12	11	9	
G 765008	5	0.2	10	8	7	390
G 765009	5	0.1	11	13	9	
G 765011	5	0.1	9	11	7	
G 765012	5	0.1	12	13	3	60
G 765013	5	0.1	16	13	2	
G 765014	5	0.1	16	17	10	1820
G 765015	10	0.1	9	13	3	
G 765016	10	0.1	7	11	2	120
G 765017	5	0.1	8	13	7	
G 765018	10	0.1	13	18	10	780
G 765019	5	0.1	17	14	8	
G 765020	10	0.1	23	14	5	1310
G 765021	25	0.1	9	11	2	
G 765022	10	0.1	8	12	2	300
G 765023	5	0.1	18	14	16	
G 765024	5	0.1	12	15	8	650
G 765025	20	0.1	10	13	8	
G 765026	5	0.1	7	14	1	220
G 765027	5	0.1	8	11	2	
G 765028	5	0.1	8	13	1	160
G 765029	5	0.1	8	11	2	
G 765030	5	0.1	9	10	2	370
G 765031	5	0.1	6	9	2	
G 765032	5	0.1	7	14	3	680
G 765033	5	0.1	8	12	24	
G 765034	5	0.1	8	11	22	70
G 765035	5	0.1	9	11	48	
G 765036	25	0.1	8	12	32	410
G 765037	10	0.1	7	13	1	

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CDN RESOURCE LABORATORIES LTD.

#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

GEOCHEMICAL REPORT

To: Aurum Geological Consultants Inc.
1614 - 675 West Hastings
Vancouver, B.C.
V6B 4W3

Number: 86362
Date: November 4, 1986
Proj.: McDade

Attn: Harmer Keyser

	Au ppb	Ag ppm	Pb ppm	As ppm	Sb ppm
G 765038	5	0.1	4	6	1
G 765039	5	0.3	1	17	1
G 765040	35	0.3	5	11	1
G 765041	45	1.9	71	120	2
G 765042	15	0.6	8	7	1
G 765043	5	0.1	6	4	1
G 765044	25	0.2	11	8	1
G 765045	<10	0.1	6	5	1
G 765046	5	0.3	12	5	1
G 765047	5	0.3	7	5	1
G 765048	5	0.3	6	10	1
G 765049	5	1.3	7	8	1
G 765050	5	0.2	6	8	1
G 765051	5	0.1	5	3	1
G 765052	5	0.1	5	5	1
G 765053	5	0.1	4	2	1
G 765054	5	0.1	15	6	1
G 765055	5	0.1	9	5	1
G 765056	5	0.1	5	2	1
G 765057	20	0.1	6	4	1
G 765058	<10	0.1	14	8	1
G 765059	<10	0.1	22	8	1
G 765060	15	0.1	11	10	1
G 765061	5	0.1	10	4	1
G 765062	5	0.1	6	8	1
G 765063	10	0.3	8	5	1
G 765064	5	0.2	9	7	1
G 765065	5	0.1	13	9	1
G 765066	5	0.1	6	5	1
G 765067	5	0.1	8	6	1
G 765068	5	0.2	37	4	1
G 765069	5	0.1	2	1	1
G 765070	5	0.3	4	5	1
G 765071	10	0.1	7	5	1
G 765072	10	0.1	8	6	1
G 765073	5	0.1	7	9	1
G 765074	5	0.3	28	5	1
G 765075	5	0.1	5	3	1
G 765076	10	0.1	5	11	1
G 765077	5	0.1	6	9	1

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#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

GEOCHEMICAL REPORT

To: Aurum Geological Consultants Inc.
1614 - 675 West Hastings
Vancouver, B.C.
V6B 4W3

Number: 86362
Date: November 4, 1986
Proj.: McDade

Attn: Harmer Keyser

	Au ppb	Ag ppm	Pb ppm	As ppm	Sb ppm
G 765078	5	0.1	6	6	1
G 765079	5	0.1	16	14	1
G 765080	5	0.1	6	8	1
G 765081	5	0.1	6	12	1
G 765082	5	0.1	8	13	1
G 765083	5	0.1	72	11	1
G 765084	5	0.1	4	4	1
G 765085	5	0.1	4	6	1
G 765086	5	0.1	19	20	2
G 765087	5	0.1	13	14	2
G 765088	5	0.1	10	11	1
G 765089	5	0.1	10	14	1
G 765090	5	0.1	5	21	1
G 765091	5	0.1	6	14	1
G 765092	5	0.1	5	9	1
G 765093	5	0.1	6	12	1
G 765094	5	0.1	4	6	1
G 765095	5	0.1	5	8	1
G 765096	5	0.1	6	9	1
G 765097	5	0.2	6	5	1
G 765098	5	0.2	5	4	1
G 765099	5	0.1	7	5	1
G 765100	5	0.1	5	1	1
G 765101	5	0.1	5	4	1
G 765102	5	0.1	7	7	1
G 765103	5	0.1	4	3	1
G 765104	5	0.1	3	1	1
G 765105	5	0.2	7	10	1
G 765106	5	0.1	6	11	1
G 765107	5	0.2	9	9	1
G 765108	5	0.1	8	10	1
G 765109	5	0.1	3	12	1
G 765110	5	0.1	4	8	1
G 765111	10	0.1	4	14	1
G 765112	5	0.3	7	10	1
G 765113	5	0.2	7	8	1
G 765114	5	0.2	5	28	1
G 765115	5	0.2	4	11	1
G 765116	5	0.1	2	9	1
G 765117	5	0.2	5	15	1

Duncan Sanderson

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#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

GEOCHEMICAL REPORT

To: Aurum Geological Consultants Inc.
1614 - 675 West Hastings
Vancouver, B.C.
V6B 4W3

Number: 86362
Date: November 4, 1986
Proj.: McDade

Attn: Harmen Keyser

	Au ppb	Ag ppm	Pb ppm	As ppm	Sb ppm
G 765118	5	0.2	3	6	1
G 765119	20	0.2	4	6	1
G 765120	5	0.1	5	5	1
G 765121	5	0.4	11	9	1
G 765122	5	0.1	5	5	1
G 765123	5	0.2	5	3	1
G 765124	5	0.1	7	6	1
G 765125	10	0.2	7	1	1
G 765126	10	0.3	8	7	1
G 765127	15	0.5	3	5	1
G 765128	5	0.2	6	9	1
G 765129	15	0.2	5	5	1
G 765130	<10	0.4	7	4	1
G 765131	10	0.1	3	1	1
G 765132	30	0.3	1	5	1
G 765133	5	0.4	11	6	1
G 765134	5	0.2	8	3	1
G 765135	10	0.3	5	3	1
G 765136	5	0.1	3	1	1
G 765137	5	0.1	8	6	1
G 765138	35	0.8	4	2	1
G 765139	70	0.4	5	2	1
G 765140	20	0.3	4	1	1
G 765141	65	0.8	11	40	1
G 765142	5	0.4	17	3	1
G 765143	5	0.4	19	4	1
G 765144	30	0.3	19	2	1
G 765145	5	0.1	10	3	1
G 765146	5	0.1	26	9	1
G 765147	15	0.1	8	8	1
G 765148	5	0.1	5	6	1
G 765149	5	0.1	3	6	1
G 765150	5	0.1	3	6	1
G 765151	5	0.2	3	9	12
G 765152	5	0.1	2	2	1
G 765153	5	0.2	4	4	1
G 765154	5	0.2	1	1	17
G 765155	5	0.3	6	4	160
G 765156	5	0.1	1	1	1
G 765157	5	0.3	5	8	1

Duncan Sanderson

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GEOCHEMICAL REPORT

To: Aurum Geological Consultants Inc.
1614 - 675 West Hastings
Vancouver, B.C.
V6B 4W3

Number: 86362
Date: November 4, 1986
Proj.: McDade

Attn: Harmer Keyser

	Au ppb	Ag ppm	Pb ppm	As ppm	Sb ppm	Hg ppb
G 765158	5	0.3	7	13	1	
G 765159	5	0.2	5	11	13	
G 765160	5	0.3	6	10	140	
G 765161	10	0.1	7	11	55	
G 765162	15	0.3	8	14	3	130
G 765163	10	0.4	7	17	1	
G 765164	10	0.1	7	19	1	40
G 765165	10	0.1	6	15	1	
G 765166	10	0.1	4	12	1	30
G 765167	5	0.1	8	10	60	
G 765168	5	0.2	8	12	1	40
G 765169	5	0.1	6	12	1	
G 765170	5	0.2	11	15	1	100
G 765171	10	0.1	10	11	1	
G 765172	5	0.1	7	7	1	50
G 765173	5	0.2	10	17	1	
G 765174	5	0.1	12	14	1	50
G 765175	10	0.1	7	15	4	
G 765176	5	1.5	6	15	4	420
G 765177	5	0.3	8	13	17	
G 765178	5	0.1	6	11	11	250
G 765179	5	0.1	8	12	9	
G 765180	20	0.1	11	19	1	50
G 765182	10	0.2	8	17	1	50
G 765184	5	0.1	5	17	1	80
G 765186	5	0.1	6	17	1	80
G 765188	5	0.1	9	13	1	40
G 765190	5	0.1	10	12	1	60
G 765192	5	0.2	6	13	1	50
G 765194	10	0.2	19	18	1	
G 765196	5	0.2	6	8	1	
G 765197	5	0.1	6	8	29	
G 765198	15	0.3	5	11	1	
G 765199	5	0.2	11	12	1	
G 765200	10	0.4	6	9	1	
G 765201	5	0.2	7	9	15	
G 765202	5	0.3	5	8	5	
G 765203	5	0.4	3	7	3	
G 765204	5	0.5	7	10	3	
G 765205	5	0.2	3	9	2	

Duncan Sanderson

CDN RESOURCE LABORATORIES LTD.

#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

GEOCHEMICAL REPORT

To: Aurum Geological Consultants Inc.
1614 - 675 West Hastings
Vancouver, B.C.
V6B 4W3

Number: 86362
Date: November 4, 1986
Proj.: McDade

Attn: Harmer Keyser

	Au ppb	Ag ppm	Pb ppm	As ppm	Sb ppm
G 765206	5	0.2	7	11	3
G 765207	5	0.3	6	11	2
G 765208	5	0.3	6	13	4
G 765209	5	0.4	7	14	1
G 765210	5	0.2	8	13	2
G 765211	5	0.2	8	13	3
G 765212	5	0.1	5	6	290
G 765213	5	0.2	6	9	4
G 765214	5	0.4	6	12	2
G 765215	5	0.2	4	7	1
G 765216	5	0.2	7	10	2
G 765217	5	0.1	7	11	2
G 765218	5	0.3	13	13	3
G 765219	5	0.1	5	7	1
G 765220	180	0.1	7	8	2
G 765221	5	0.2	7	9	1
G 765222	5	0.1	8	12	1
G 765223	5	0.1	10	14	2
G 765224	5	0.1	9	11	1
G 765225	20	0.1	5	9	1
G 765226	5	0.1	7	14	1
G 765227	5	0.2	8	17	1
G 765228	5	0.3	6	17	1
G 765229	70	0.3	7	19	1
G 765230	5	0.4	8	17	1
G 765231	5	0.3	7	16	1
G 765232	5	0.3	4	18	1
G 765233	5	0.1	5	16	2
G 765234	5	0.2	5	12	1
G 765235	5	0.2	6	15	1
G 765236	5	0.2	6	16	3
G 765237	5	0.3	9	15	1
G 765238	5	0.2	6	15	1
G 765239	5	0.2	6	15	1
G 765240	5	0.2	7	15	1
G 765241	5	0.3	3	29	1
G 765242	5	0.4	1	52	1
G 765243	5	0.2	3	24	1
G 765244	5	0.2	5	11	1
G 765245	5	0.2	4	13	1

Duncan Sanderson

CDN RESOURCE LABORATORIES LTD.

#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448

GEOCHEMICAL REPORT

To: Aurum Geological Consultants Inc.
1614 - 675 West Hastings
Vancouver, B.C.
V6B 4W3

Number: 86362
Date: November 4, 1986
Proj.: McDade

Attn: Harmer Keyser

	Au ppb	Ag ppm	Pb ppm	As ppm	Sb ppm
G 765246	5	0.2	5	9	1
G 765247	5	0.2	9	16	1
G 765248	5	0.2	4	7	1
G 765249	25	0.2	16	19	1
G 765250	60	0.2	10	19	1
G 765251	35	0.2	8	12	1

Duncan Sanderson

CDN RESOURCE LABORATORIES LTD.

#8, 7550 RIVER ROAD, DELTA, B.C. V4G 1C8 / TEL. (604) 946-4448


*** ASSAY REPORT ***

To: Aurum Geological Consultants Inc.
1614 - 675 West Hastings
Vancouver, B.C.
V6B 4W3

Number: 86362A
Date: November 7, 1986
Proj.: McDade

Attn: Harmer Keyser

	Ag g/t	Sb %
G 265004	<0.5	1.96
G 265005	<0.5	0.32
G 265008	<0.5	1.04
G 265009	<0.5	2.32
G 265010	<0.5	0.79
G 265023	<0.5	0.49


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