Office of the Regional Manager Mineral
JAN 7 1983
Yukon Territory

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MINING RECORDER
DAWSON, Y.T.
I.A. & N.D.

DRILLING REPORT
on the
RUSTY SPRINGS PROPERTY
Yukon Territory
N.T.S. 116 K/8, 9

Claims: Rio 1-104, Carb 1-16,
Nate 3-14, HG 1-146,
JP 1-54, Moose 1-48

Latitude 66°30' North

Longitude 140°25' West

prepared for
KENTON NATURAL RESOURCES CORPORATION
Calgary, Alberta

by
James W. Davis, M.Sc., P.Geol., F.GAC
Claude H. Aussant, P.Geol.
TAIGA CONSULTANTS LTD.
Calgary, Alberta

091410

August - September 1982

1 of 2

his report [illegible] examined by
[illegible] Geological Section [illegible]
[illegible] der Section [illegible] Yukon Quartz
[illegible] and [illegible] claims as
[illegible] proceeding [illegible] of
[illegible] $ 26,400
Pellatson

[illegible] and
[illegible] Commissioner
Yukon Territory.

INDIAN AND NORTHERN AFFAIRS
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NNREB WHSE

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JAN 27 1983
REGIONAL GEOLOGY
OFFICE

PAT WATSON
GEOLOGY
WHSE
27 JANUARY, 1983

RE: YDR 63

HAVE SENT OUT LETTERS REQUESTING STATEMENT OF COSTS FOR THE REPORTS YOU MENTIONED.

THE AMOUNT REQUIRED FOR THE RENEWAL OF THE RIO, CARB HG ETC. IS ~~XXXXXX~~ 26,400.00 TOTAL

Y.T. BURKHARD
DEPUTY MINING RECORDER
DAWSON MINING BISTRICT

IAND DAW

#
NNREB WHSE

CERTIFICATE

I, the undersigned, of the City of Calgary in the Province of Alberta, do hereby certify that:

1. I am a Professional Geologist with an office mailing address of Suite 100, 1300 - 8th Street S.W., Calgary, Alberta;

2. I graduated from St. Louis University with a Bachelor of Science degree in 1967 and with a Master of Science degree in 1969;

3. I am a registered Professional Geologist with the Association of Professional Engineers, Geologists and Geophysicists of Alberta for the past eleven years;

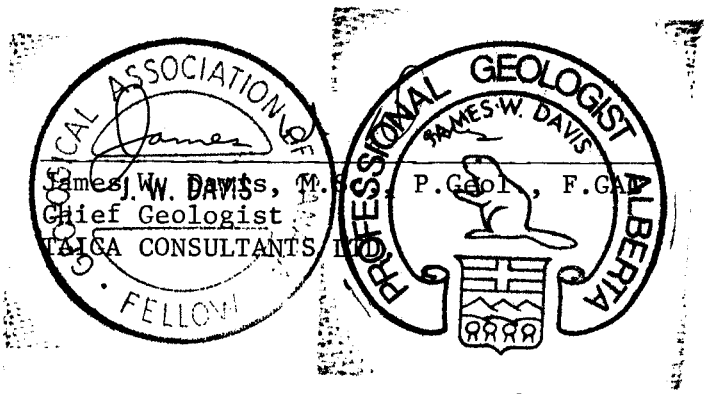
4. I have practised my profession as a geologist for fifteen years;

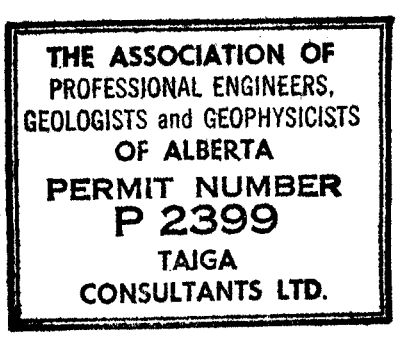
5. I am the beneficial owner of 10,500 shares of Kenton Natural Resources Corporation;

6. I have personally directed the exploration carried out on the claims mentioned herein during the period of August 13 to September 15, 1982.

Dated at Calgary, Alberta, this 10th day of November, A.D. 1982

James W. Davis, M.Sc., P.Geol., F.GAC
Chief Geologist
TAIGA CONSULTANTS LTD.





CERTIFICATE

I, the undersigned, of the City of Calgary in the Province of Alberta, do hereby certify that:

1. I am a practising Professional Geologist with offices at Suite 100, 1300 - 8th Street S.W., Calgary, Alberta;

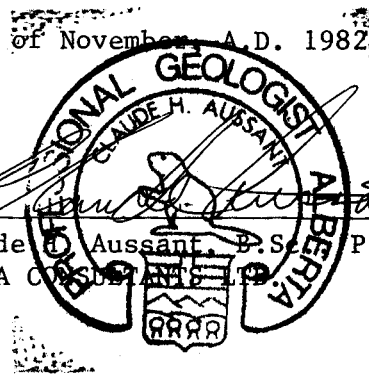
2. I am a graduate of the University of Calgary, with a Bachelor of Science degree in Geology (1976);

3. I have practised my profession for six years since graduation;

4. I am a member in good standing since 1979 of the Association of Professional Engineers, Geologists and Geophysicists of Alberta;

5. I have personally worked on the claims mentioned herein, and supervised exploration work carried out thereon.

DATED at Calgary, Alberta, this 10th day of November, A.D. 1982.



Claude H. Aussant, B.Sc., P.Geol.
TAIGA CONSULTANTS LTD.

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INTRODUCTION

At the request of Kenton Natural Resources Corporation, Taiga Consultants Ltd. was contracted to carry out a diamond drilling program on Kenton's Rusty Springs property in the northern Yukon. During the period from August 13 to September 15 of this year, a total of 510 metres (1673 feet) of drilling at eight locations was completed on the property.

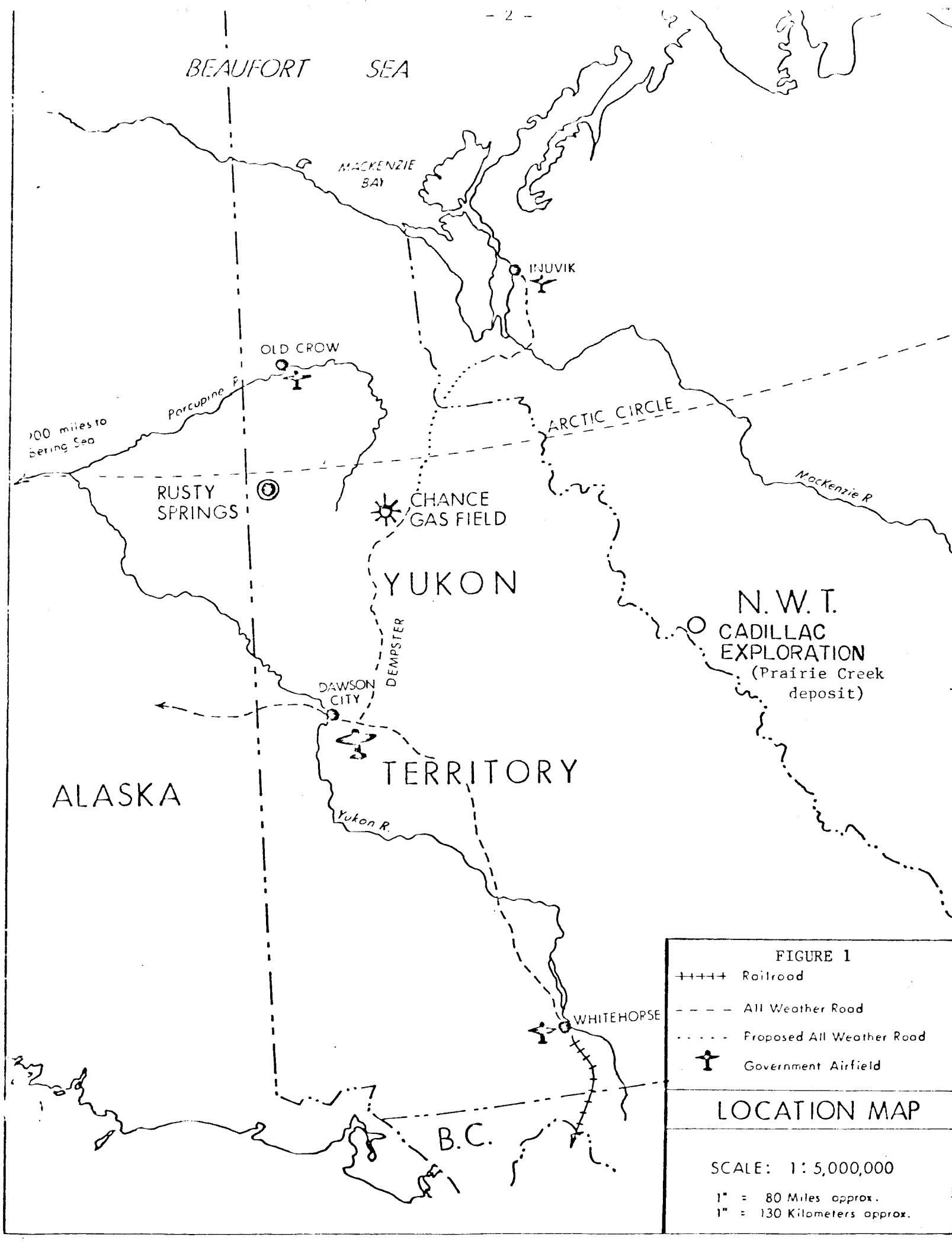
As an integral part of this program, previous core from the 1980 diamond drill program was relogged to provide additional stratigraphic information.

In order to facilitate access to the property for this drilling program, an existing airstrip was lengthened and upgraded.

Location and Access

The location and access to the property are illustrated on Figure 1. Rusty Springs is situated in the northwestern part of the Yukon at approximately 67° North latitude and 140° West longitude in N.T.S. 116 K/8 and 116 K/9. The property is about 8 km south of the Arctic Circle and 29 km east of the Alaska border.

Access to the property is via wheel or ski-equipped aircraft or by winter road. The first of two airstrips on the property is approximately 365 metres (1200 feet) long, suitable for winter use only, and the second is approximately 236 metres (775 feet) long, adequate for use in the summer months. Both strips can accommodate aircraft up to the size of a Twin Otter. Road access has been previously developed for winter haulage from Mile 123 (Ogilvie Crossing) on the Dempster Highway over a distance of 193 km (120 miles). The Dempster Highway is a government-maintained all-weather road providing access from the south. The winter road access traverses gently sloping terrain without any major topographic obstacles. A base camp consisting of seven half-frame tents is situated on the northwest slope of Orma Hill in the eastern part of the property.


BEAUFORT SEA
MACKENZIE BAY
INUVIK
OLD CROW
Porcupine R.
200 miles to Bering Sea
ARCTIC CIRCLE
Mackenzie R.
RUSTY SPRINGS
CHANCE GAS FIELD
YUKON
N.W.T.
CADILLAC EXPLORATION
(Prairie Creek deposit)
DEMPSTER
DAWSON CITY
TERRITORY
ALASKA
Yukon R.
WHITEHORSE
B.C.
FIGURE 1
Railroad
All Weather Road
Proposed All Weather Road
Government Airfield
LOCATION MAP
SCALE: 1: 5,000,000
1" = 80 Miles approx.
1" = 130 Kilometers approx.

Claim Status

The Rusty Springs property is comprised of 380 Quartz Claims totalling 7,943 hectares (19,627 acres) (see Table 1).

A thorough search of the claim records on file in Rio Alto Exploration Ltd.'s Calgary office was performed by R. T. Heard, P.Eng. in March 1980. This included the original claims affidavits, transfer documents, grouping certificates, and certificates of work. To this writer's knowledge, all claims are validly located and registered in the name of Rio Alto Exploration Ltd. All claims are in good standing until 1983 or later.

Fifteen overlying Iron Claims (Yeti 1-12, Rio 1-3; also registered in the name of Rio Alto Exploration) are not included in this project.

The claims are documented on claim sheets 116 K/8 and 116 K/9, Dawson Mining District, Yukon Territory. Assessment work requirements in the Yukon are $100 per claim per year.

Physiography

The Rusty Springs property lies within the Porcupine Ranges of the Ogilvie Mountains. Maximum relief on the property is 245 metres (800 feet), varying from approximately 550 to 790 metres (1800 to 2600 feet) ASL. The topography consists of broad, gently sloping valleys and rounded hills. The entire property area lies within that portion of the Yukon which is unglaciated. As a result, a thick regolith has developed in the area. Permafrost conditions exist throughout the area which has resulted in solifluction and extensive down-slope creep of the regolith.

TABLE 1

Claims Status

Quartz Claims	Record Numbers	Expiry Dates
RIO 1-11	YA2826 - YA2836	Oct. 16/87
12	YA2837	Oct. 16/88
13-24	YA2838 - YA2849	Oct. 16/87
25-26	YA2850 - YA2851	Oct. 16/88
27	YA2852	Oct. 16/89
28	YA2853	Oct. 16/88
29	YA2854	Oct. 16/87
30	YA2855	Oct. 16/88
31	YA2856	Oct. 16/87
32	YA2857	Oct. 16/88
33-38	YA2858 - YA2863	Oct. 16/87
39	YA2864	Oct. 16/88
40-46	YA2865 - YA2871	Oct. 16/87
47	YA2872	Oct. 16/88
48	YA2873	Oct. 16/87
49	YA2874	Oct. 16/88
50-60	YA2875 - YA2885	Oct. 16/87
61-74	YA10160 - YA10173	May 31/88
75	YA10174	May 31/89
76-104	YA10175 - YA10203	May 31/88
NATE 3-6	YA2902 - YA2905	Oct. 16/87
7-14	YA2906 - YA2913	Oct. 16/88
CARB 1-16	YA2886 - YA2900	Oct. 16/87
HG 1-57	YA10944 - YA11000	Nov. 29/83
58-146	YA29401 - YA29489	Nov. 29/83
JP 1-54	YA29490 - YA29543	Nov. 29/83
MOOSE 1-48	YA10820 - YA10867	Oct. 3/84

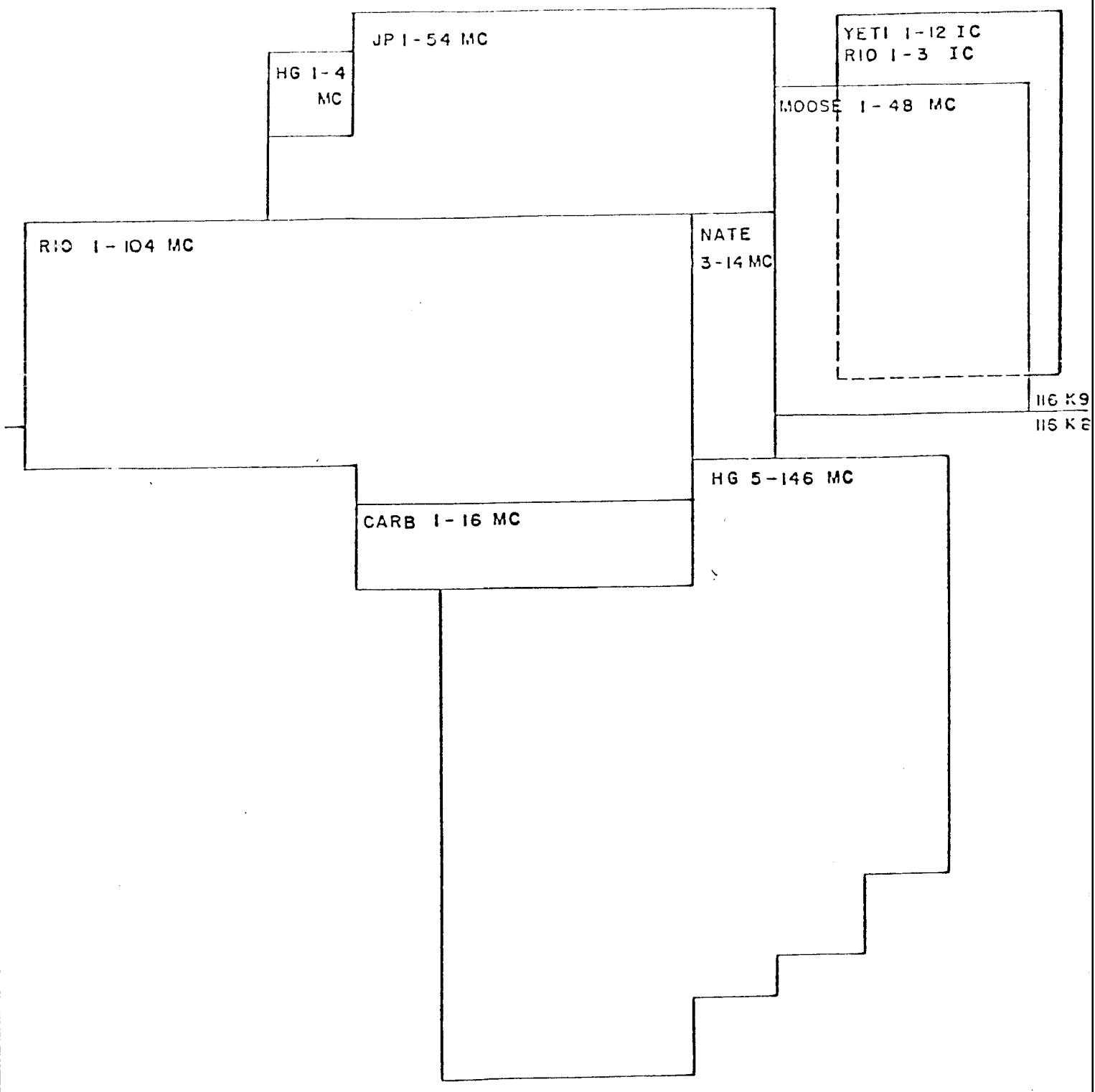


FIGURE 2

RUSTY SPRINGS
MINERAL PROSPECT

CLAIM MAP
NTS SHTS. Nos. 116K 8 & 9
SCALE 1 in. = 1 mi.

HISTORY OF EXPLORATION

During the fall of 1975, while investigating an oolitic iron formation, a rusty spring-seep was observed by R. W. Termuende and M. N. Chernoff. Upon investigation, the seep was found to be associated with high-grade silver, lead, zinc, and copper mineralization. A total of 92 quartz claims and 15 iron claims were staked during the fall and winter seasons.

During the 1976 summer season, a preliminary investigation of the property was conducted by Rio Alto Exploration Ltd., under the supervision of M. N. Chernoff. Exploration completed included helicopter-supported geological mapping, prospecting, sampling of mineralized float, and limited soil geochemical sampling. This work established the structural setting, confirmed the presence of high-grade silver values, and demonstrated the usefulness of soil geochemistry. The mineral occurrences were considered to be *hydrothermal vein systems with supergene enrichment* possibilities.

Based on encouraging results from this preliminary reconnaissance, a follow-up field program consisting of geological mapping, soil geochemical sampling, and 975 metres (3200 feet) of diamond drilling was conducted in 1977. Again, the results were considered positive, even though poor drill core recoveries were obtained. Additional ground was staked to give a total of 380 quartz claims and 15 iron claims.

A geological thesis by G. Schoel concluded that the *mineralization was probably Mississippi Valley type.*

During the winter of 1978, fuel, drill equipment, and supplies were ferried to the property by tractor train. That summer, two picket grids (totalling 67 line km) were established over the claims. Further geological mapping, soil geochemical sampling, diamond drilling (1840 metres), and metallurgical sampling were also completed. Poor drill core recovery once again hampered the effectiveness of the program.

A geological thesis was undertaken by D. Hansen, again *emphasizing a Mississippi Valley type model* for the mineralization.

Exploration during the period 1975 to 1978 inclusive, was funded by Rio Alto Exploration.

In 1979, detailed geological mapping, a soil geochemical survey, an Induced Polarization survey, and a gravity survey were completed. Joint funding of this work was by Rio Alto and E & B Explorations Ltd. of Calgary, Alberta.

A geological thesis by J. Bankowski indicated a *hydrothermal exhalative nature*.

In 1980, E & B Explorations undertook 1830 metres (6000 feet) of diamond drilling, 'cat' trenching, and some detailed geological mapping. Core recoveries were not significantly improved over previous years.

Aside from brief visits to the property by various parties, no further work was conducted on the prospect during 1981.

The most recent research work, carried out by Jill Kirker (c.f., report dated April 15, 1982), strongly supports a *hydrothermal origin for the mineralization*.

REGIONAL GEOLOGY

The regional geology, as illustrated in Figure 3, is based on a recent photogeologic interpretation by Taiga Consultants. Bedrock exposures within this region range in age from Devonian to Cretaceous. The oldest rock units exposed in the Rusty Springs area are the carbonates of the Middle Devonian Ogilvie Formation. All of the mineral occurrences discovered in this area to date are hosted by this unit.

Disconformably overlying the Ogilvie Formation are the shale, siltstone, and minor limestone units which comprise the Carboniferous Hart River Formation. The Hart River is succeeded by the late Carboniferous Ettrain Formation which consists of shale and carbonate units.

The Ettrain is disconformably overlain by the Permian Jungle Creek Formation, which in turn has been subdivided into a lower carbonate and clastic sequence and an upper shale sequence.

The Jungle Creek is unconformably overlain by the Jurassic (Lower Cretaceous?) Kingak Formation. The Kingak consists predominantly of shale with minor siltstone.

Structurally, the property lies along the axes of two northerly oriented anticlines. Locally, along the axes of the structures, a culmination or dome occurs in the Orma Hill and the Mike Hill areas. This domal structure may be the expression of one or more intrusives emplaced along the axial portion of these anticlines. Close examination of the axial portion of these folds reveals that the axis of culmination is displaced several times by easterly trending tear faults.

TABLE 2	TABLE OF FORMATIONS	
Jurassic (Cretaceous?)	Kingak Formation	
Permian	Jungle Creek Formation	upper
		lower
		undifferentiated
Carboniferous	Ettrain Formation	
	Hart River Formation	
Middle Devonian	Ogilvie Formation	

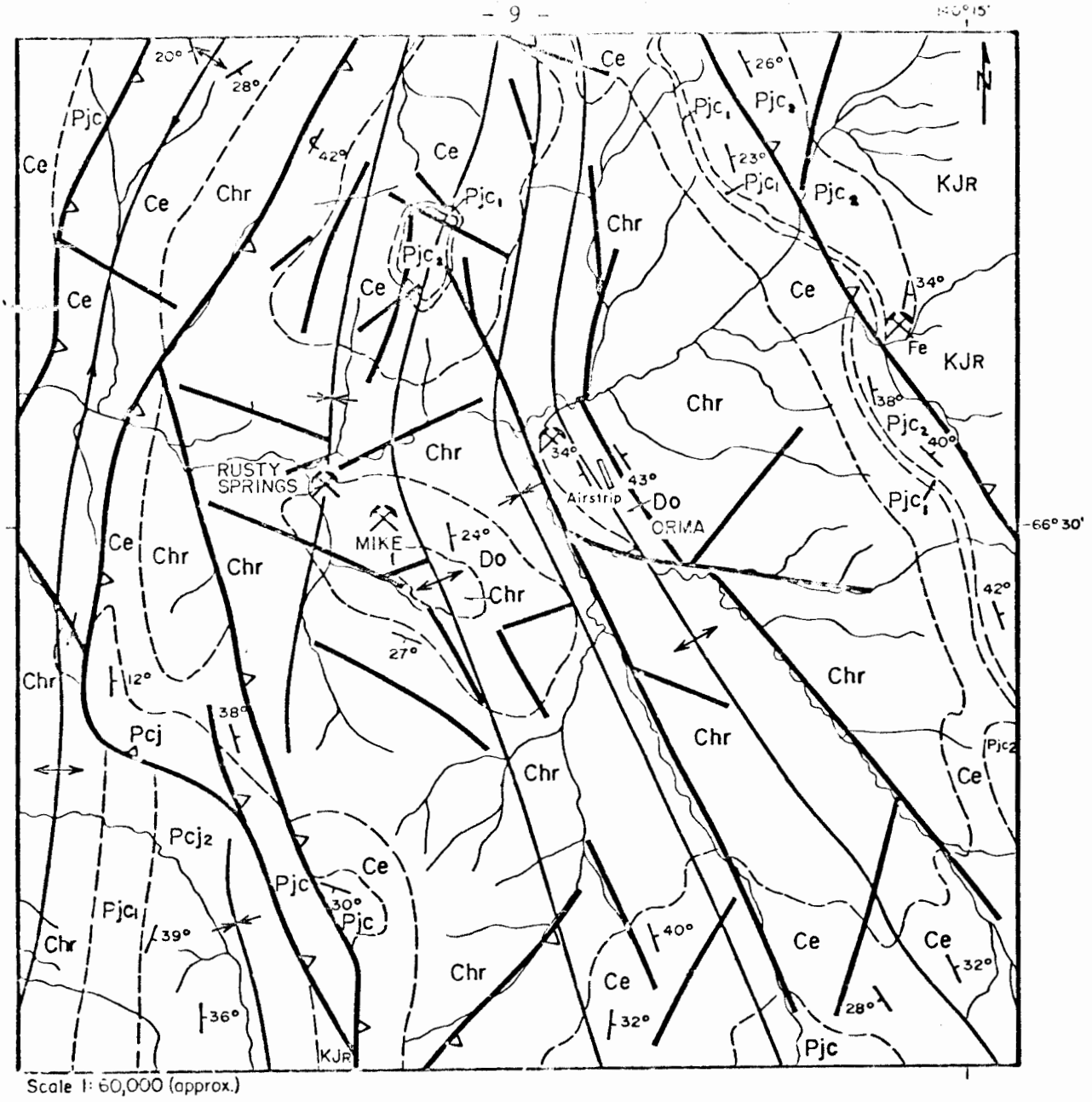


Figure 3

GEOLOGY OF THE RUSTY SPRINGS AREA

KJR	Kingak Fm. - shale
Pjc2	Jungle Cr. Fm. (shale unit)
Pjc1	Jungle Cr. Fm. (carbonate unit)
Pjc	Undifferentiated
Ce	Ettrain Fm. - shale and limestone
Chr	Hart River Fm. shale, siltstone and limestone
Do	Ogilvie Fm. - limestone

15°	Strike and dip (estimated)
	Overturned dip
	Anticline
	Syncline
	Fault, lineament
	Thrust fault
	Geological contact

EXPLORATION MODEL

Based on re-evaluation of previous work on the property and observations made during this summer's program, the mineralization present at Rusty Springs has been identified as "epithermal vein-type". Mineralization is essentially confined to vertical veins and is characteristic of hydrothermal systems in the temperature range of 200°C. This model designation is supported by the presence of widespread silicification, clay alteration, and the mineralogy of the veins.

The widespread presence of high-grade Ag mineralization indicates a good possibility of discovering "Bonanza-type" silver deposits in the area. These relatively low-temperature hydrothermal deposits are related to hot-spring activity with the boiling point of fluid systems critical to depositional control of ore minerals. Such deposits often exhibit considerable lateral as well as vertical zonation.

These deposits do not necessarily form large-tonnage situations, but due to the grade of mineralization, are capable of becoming economic in remote environments. In addition, a strong possibility of considerable supergene enrichment exists in this unglaciated terrain.

AIRSTRIP CONSTRUCTION

In June 1982, an airstrip 236 metres (775 feet) long was constructed in order to provide summer access to the claims. Previous access was via helicopter in the summer, and in the winter by a 365 metre (1200 foot) airstrip suitable for winter use only.

Because the summer airstrip was barely adequate, the construction of another longer airstrip was begun in August to facilitate the mobilization and demobilization of the drill equipment and personnel. However, this new strip was never completed due to the need to utilize the 'cat' to support the drilling program by constructing access roads and drill sites, and mobilizing the drill.

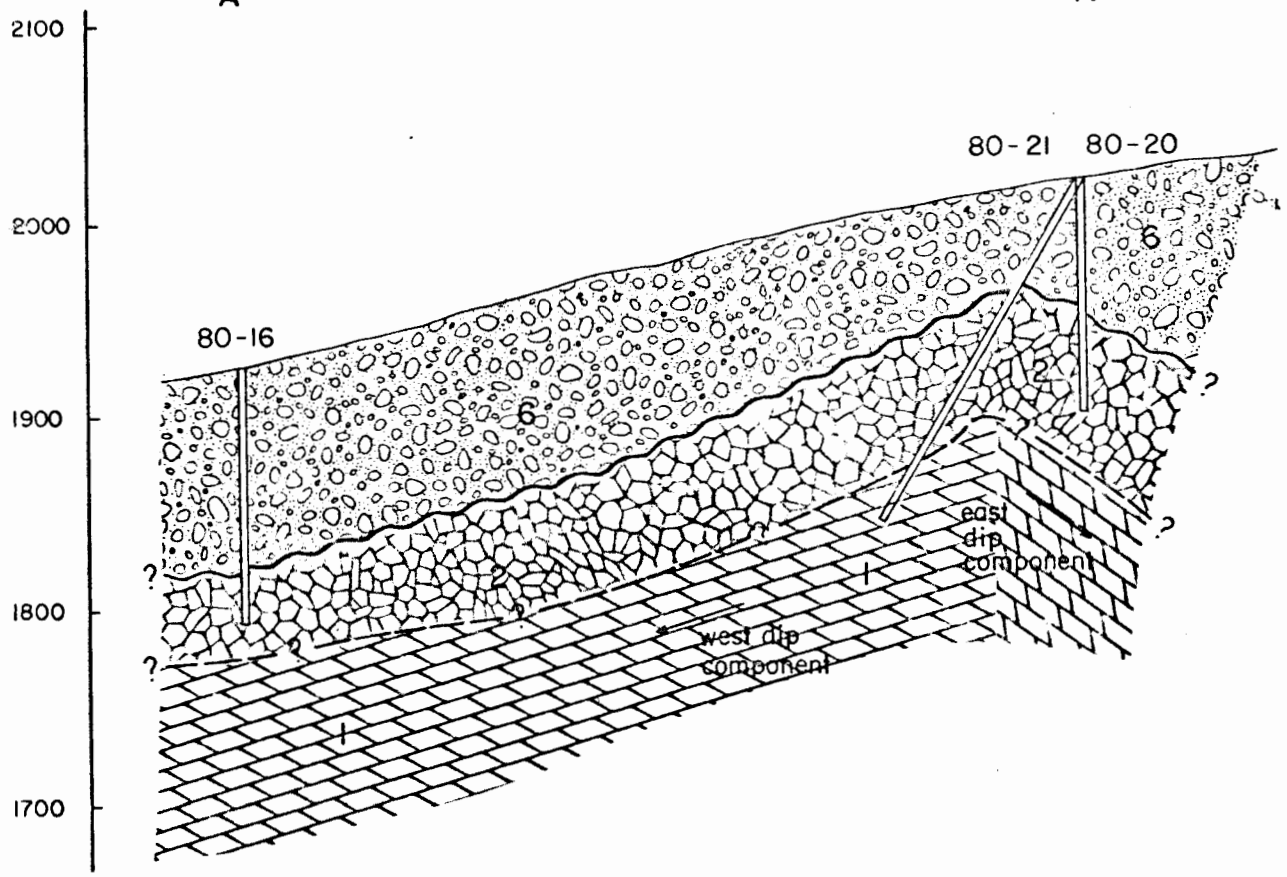
Another week of work would be required in order to complete the new airstrip. This new all-weather airstrip would be approximately 366 to 457 metres (1200 to 1500 feet) long, and would make access to the property safer and usable by a wider variety of aircraft.

CORE RELOGGING

All of the core from the 1980 drill program was relogged. No attempt was made to relog earlier core from the property due to the weathered condition of the core boxes which made reading core box numbers and footage markers impossible in most cases. The locations of all drill holes are illustrated on Map 1. The new drill logs are located in the Appendix of this report.

From the examination of the 1980 core, three important observations were made: (1) there are three distinct mappable lithologic units in the upper Ogilvie Formation; (2) a thick regolith mantles the Orma Hill area; and (3) the main tetrahedrite/galena veins revealed by trenching this year were never intersected in the 1980 drilling. Figures 4, 5, 6, and 7 illustrate a series of cross-sections through Orma Hill, based on a re-interpretation of the drill hole data. These cross-sections indicate the relative thickness of the regolith and the three units previously described in the Upper Ogilvie Formation, along with the structural configuration of Orma Hill. Figure 4 illustrates Line A-A' which is an east-west cross-section south of Trench 2 as shown on Map 1. Cross-section B-B' is shown in Figure 5. In this case, all the drill holes were vertical and the chances of intersecting essentially vertically dipping vein materials were extremely low. Previous drilling was premised on the idea of searching for stratiform Mississippi Valley type mineralization rather than epithermal veins, and thus was totally ineffective in locating such nearly vertical vein systems. Again, in cross-section C-C' as shown in Figure 6, the majority of the drill holes were vertical. The projected strike of the mineralized vein is seen to pass between DDH 80-23 and DDH 80-24. This pattern is repeated in cross-section D-D' (Figure 7) where DDH 78-105 and DDH 78-106 straddle the vertically dipping mineralized vein.

Structurally, these cross-sections illustrate the general west dip on the west flank of the Orma Anticline. On several cross-sections, the axial portion of the Orma Anticline can be observed.



6 Dolomitic Regolith: orange to rusty colouring, highly fragmented, intensely weathered, strongly limonitic

2 Crystalline Dolomite Breccia: light to medium grey, fine to medium crystalline with white dolomite breccia filling, locally vuggy and porous

1 Carbonaceous Dolomite Breccia: medium to dark grey, white dolomite breccia filling and sublithographic, locally fassiliferous

Unconformable base of regolith

Horizontal/vertical scale 1" = 100'
Looking @ 331°

Figure 4

CROSS-SECTION A-A'

B'

B

2200
2100
2000
1900
1800
1700
1600
1500
1400

80-11
80-8
80-4
80-3
80-22
Projected strike of vein
west dip component

6
3
2

Dolomitic Regolith: orange to rusty colouring, highly fragmented, intensely weathered, strongly limonitic

Carbonaceous Dolomite Breccia: medium to dark grey, white dolomite breccia filling, occ. pyritic mudstone seams, often fetid

Crystalline Dolomite Breccia: light to medium grey, fine to medium crystalline with white dolomite breccia filling, locally vuggy and porous

Unconformable base of regolith

Horizontal/vertical scale 1" = 100'
Looking @ 331°

Figure 5
CROSS-SECTION B-B'

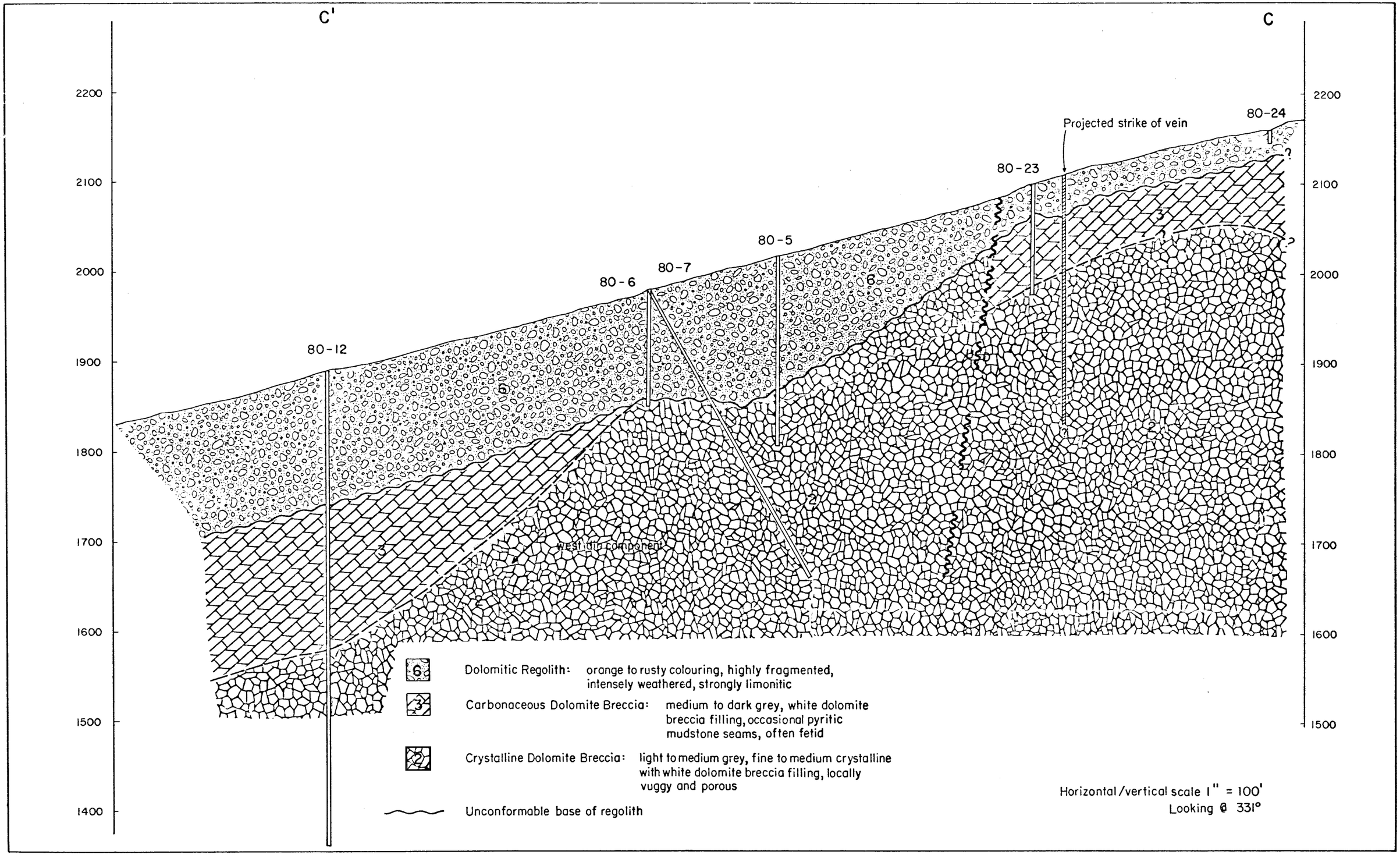


Figure 6

CROSS-SECTION C-C'

D'

D

2200
2100
2000
1900
1800
1700
1600
1500
1400

Location of sulphide vein

78-105

Trench 8

Projected Rowan Showing

78-106

80-10

80-9

80-13

zone of secondary mineralization

west dip component

6 Dolomitic Regolith: orange to rusty colouring, highly fragmented, intensely weathered, strongly limonitic

3 Carbonaceous Dolomite Breccia: medium to dark grey, white dolomite breccia filling, occ. pyritic mudstone seams, often fetid

2 Crystalline Dolomite Breccia: light to medium grey, fine to medium crystalline with white dolomite breccia filling, locally vuggy and porous

Unconformable base of regolith

Horizontal/vertical scale: 1" = 100'

Looking @ 331°

Figure 7

CROSS-SECTION D-D'

1982 DRILL PROGRAM

During the period from August 13 to September 15, 1982, eight NQ or HQ diamond drill holes, totalling 509.9 metres (1673 feet) were drilled to test both the conductors and the mineralization encountered in trenching, delineated during the 1982 summer field program. The locations of all drill holes are illustrated on Map 1, with the drill logs presented in the Appendix of this report.

The core from this drilling is stored on the property on core racks constructed on site. The location of the core is approximately 200 metres east of camp.

Figures 8 through 14 illustrate a series of sections across Orma Hill. These cross-sections were constructed through each of the 1982 drill holes, incorporating the re-interpretation of the 1980 drill hole data and the data collected from the 1982 drilling. These cross-sections indicate the relative thickness of the regolith and the three units previously described as the Upper Ogilvie Formation, along with the structural configuration of Orma Hill.

SUMMARY OF RESULTS

DDH 82-1

Diamond drill hole 82-1 was drilled with HQ core to a depth of 89 metres (292 feet) at an angle of -45° in the hope of intersecting the mineralization encountered in Trench 7 at depth, and to test the significance of a corresponding E.M. conductor. Figure 8 illustrates line H-H' which is an east-west cross-section from DDH 82-1 through Trench 7.

A 1.5 metre (5 foot) cavity was encountered at 79.86 metres (262 feet) and a 0.6 metre (2 foot) quartz vein at 85 metres (279 feet).

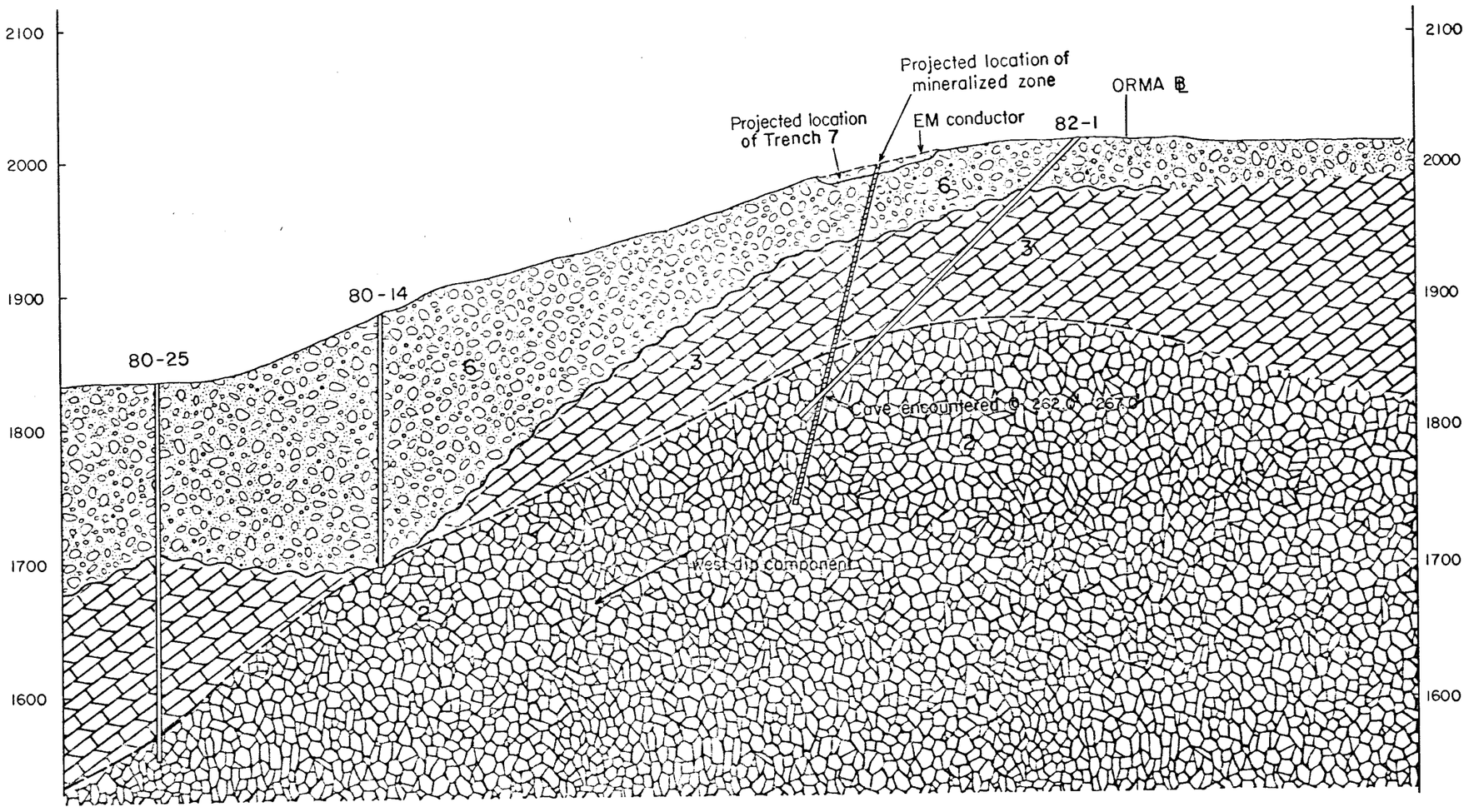
Two interpretations exist as to the significance of the cavity and the quartz vein. One interpretation is that the cavity encountered in the drill hole is the weathered-out expression of the mineralized vein uncovered in Trench 7. The possibility then exists of supergene enrichment at depth, and an extremely high-grade mineral deposit. The other possibility is that the quartz vein encountered, which is slightly anomalous in silver and lead, is the depth extension of the surface mineralization. This would then indicate that the mineralized vein encountered in Trench 7 dies out at depth. Additional drilling would be required to determine which interpretation is correct.

This hole was terminated at 89 metres due to excessive vibration of the drill rods caused by the loss of water circulation when the cavity was encountered.

The cause for the E.M. conductor was not determined; however, it is thought to be related either directly to the mineralized vein structure encountered in Trench 7, or indirectly to clay alteration in association with the vein system.

DDH 82-2

Diamond drill hole 82-2 was drilled with NQ core to a depth of 91.4 metres (300 feet) at an angle of -45° in the hope of intersecting the mineralization encountered in Trench 6 at depth. Cross-section F-F' through this drill hole is shown in Figure 9.



Horizontal/vertical scale 1" = 100'
Looking @

6 Regolith: orange to rusty colouring, highly fragmented, intensely weathered, siliceous, strongly limonitic.

5 Siltstone and Shale: lt.grey weathering with occ rusty stains, black carb, slightly arg siltstones, laminated, thinly bedded with mnr interbedded carb chert. Thin to med bedded mod well indurated, very well sorted.

4 Chert, brecciated, carbonaceous.

3 Carbonaceous Dolomite Breccia: med to dk grey, white dolomite breccia filling, occ pyritic mudstone seams, often fetid.

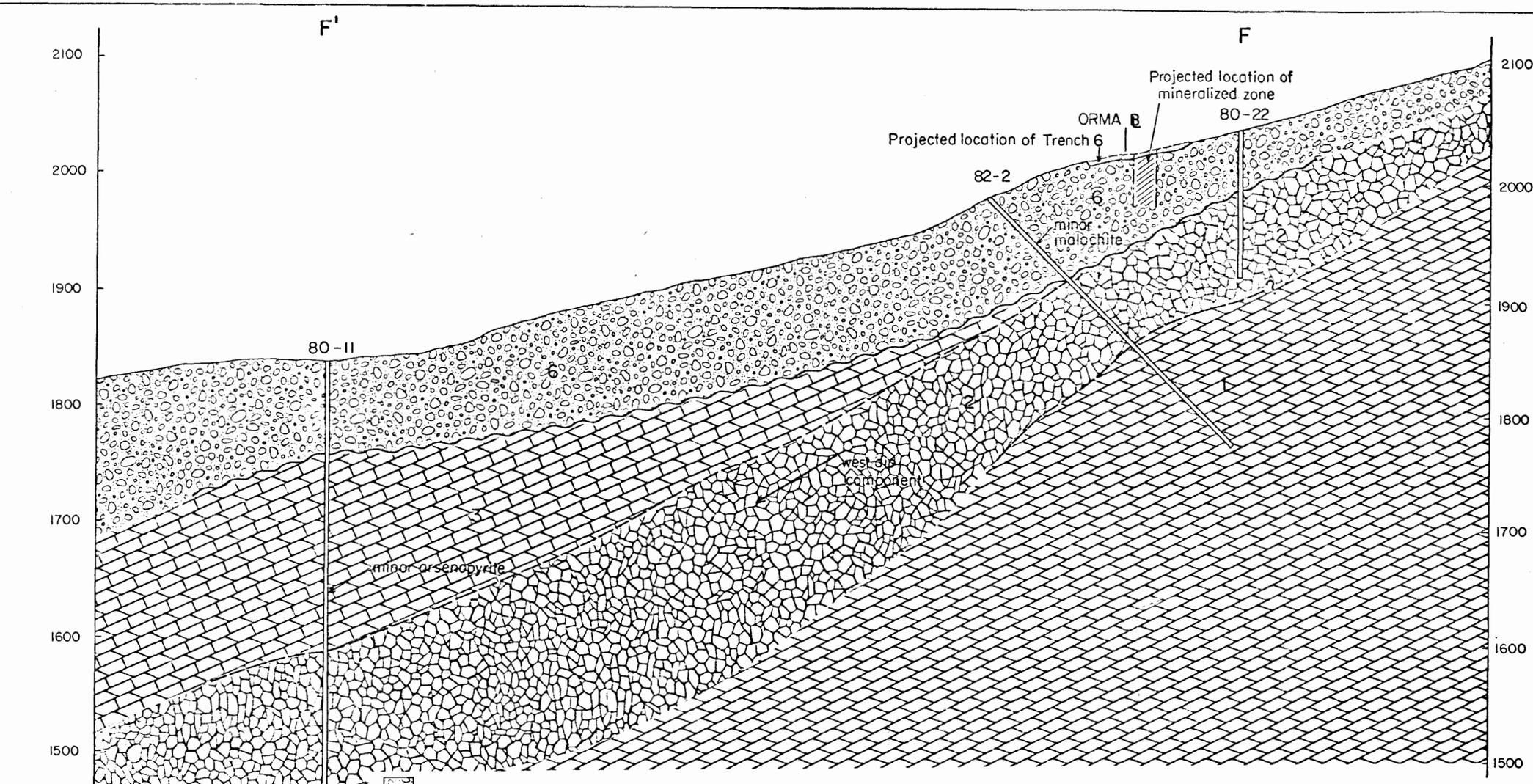
2 Crystalline Dolomite Breccia: fine to coarsely crystalline, lt to med grey to beige dol, grey weathering with white dolomite breccia filling, locally vuggy and porous.

Carbonaceous Dolomite Breccia: med to dk grey, white dolomite breccia filling and sub-lithographic, locally fossiliferous.

Unconformable base of regolith.

Figure 8

CROSS-SECTION H-H'



Horizontal/vertical scale 1" = 100'
Looking @ 331°

6 Regolith: orange to rusty colouring, highly fragmented, intensely weathered, siliceous, strongly limonitic.

5 Siltstone and Shale: lt.grey weathering with occ rusty stains, black carb, slightly arg siltstones, laminated, thinly bedded with mnr interbedded carb chert. Thin to med bedded mod well indurated, very well sorted.

4 Chert, brecciated, carbonaceous.

3 Carbonaceous Dolomite Breccia: med to dk grey, white dolomite breccia filling, occ pyritic mudstone seams, often fetid.

2 Crystalline Dolomite Breccia: fine to coarsely crystalline, lt to med grey to beige dol, grey weathering with white dolomite breccia filling, locally vuggy and porous.

1 Carbonaceous Dolomite Breccia: med to dk grey, white dolomite breccia filling and sub-lithographic, locally fossiliferous.

~~~ Unconformable base of regolith.

Figure 9

CROSS-SECTION F-F'
~~~

Minor malachite staining was noted throughout the regolith. Assay results from this section of core indicate a slight supergene enrichment in silver content. Mineralization similar to that delineated in Trench 6 was not encountered in this drill hole.

A number of possible explanations exist as to why this mineralization was not encountered: this area could be more structurally complex than was anticipated; or the mineralized vein system encountered in Trench 6 could dip steeply into Orma Hill and consequently was never intersected by this drill hole; or the mineralization could die out at depth. Additional drilling is required in order to further define the configuration of the mineralization located in this area.

DDH 82-3

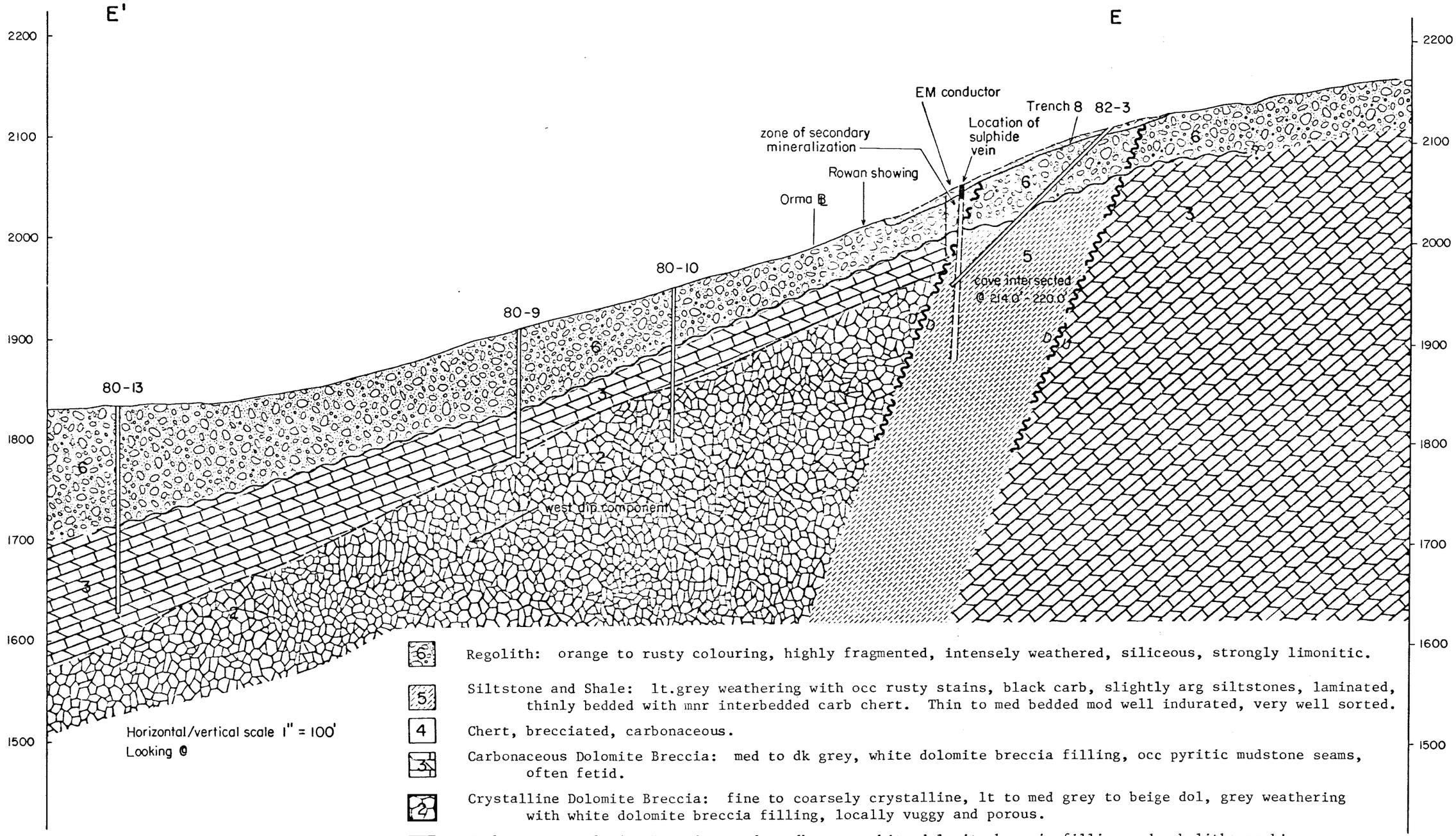
Diamond drill hole 82-3 was drilled with NQ core to a depth of 67.4 metres (221 feet) at an angle of -45° in the hope of intersecting the mineralization encountered in Trench 8 at depth, and to test the significance of a coincident E.M. conductor. Figure 10 illustrates line E-E', an east-west cross-section from DDH 82-3 through Trench 8.

The drill hole intersected siltstone throughout its entire length with only minor mineralization detected. The regolith was assayed with 0.016 oz/ton Au over 2 feet (82.5-84.5'), and 0.012 oz/ton Au over 1 foot (86.0-87.0').

A 2 metre (6½ foot) cave was encountered at 65.2 metres (214 feet) which corresponds to where a vertical extension of the surface mineralization would have intersected the drill hole. As was previously stated in the discussion of the results from DDH 82-1, the possibility exists that this cave is a result of the weathering out of mineralization at depth.

This hole was terminated at 67.4 metres due to the excessive vibration of the drill rods caused by the loss of water circulation when the cavity was encountered.

The E.M. conductor corresponds to the location of a normal fault which is inferred based on the stratigraphic relationship of the siltstone unit encountered in the drill hole.



6 Regolith: orange to rusty colouring, highly fragmented, intensely weathered, siliceous, strongly limonitic.

5 Siltstone and Shale: lt.grey weathering with occ rusty stains, black carb, slightly arg siltstones, laminated, thinly bedded with mnr interbedded carb chert. Thin to med bedded mod well indurated, very well sorted.

4 Chert, brecciated, carbonaceous.

3 Carbonaceous Dolomite Breccia: med to dk grey, white dolomite breccia filling, occ pyritic mudstone seams, often fetid.

2 Crystalline Dolomite Breccia: fine to coarsely crystalline, lt to med grey to beige dol, grey weathering with white dolomite breccia filling, locally vuggy and porous.

1 Carbonaceous Dolomite Breccia: med to dk grey, white dolomite breccia filling and sub-lithographic, locally fossiliferous.

Unconformable base of regolith.

Figure 10

CROSS-SECTION E-E'

DDH 82-4

Diamond drill hole 82-4 was drilled with NQ core to a depth of 57 metres (187 feet) at an angle of -46° in the hope of intersecting mineralization encountered during the construction of drill roads in this area. Cross-section I-I' (Figure 11) illustrates the structural and stratigraphic relationship in the subsurface based on drilling data.

Specks of galena in white crystalline quartz were noted at depths of 7.9 and 13.1 metres (26 and 43 feet); however, recovery was poor within these sections.

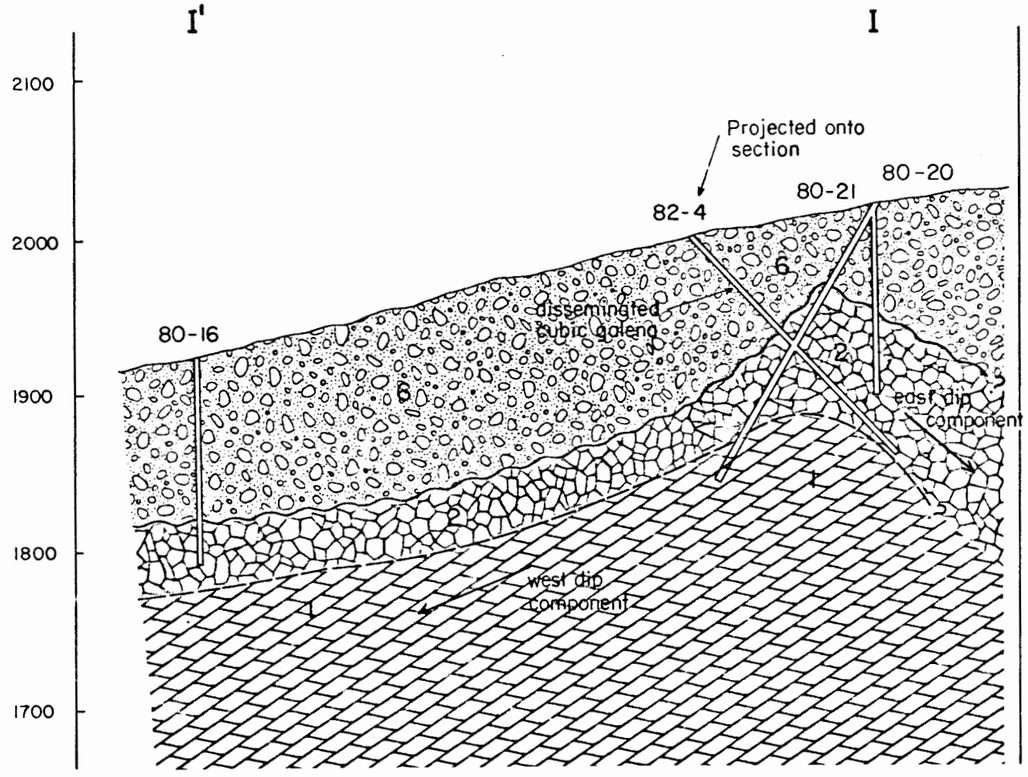
The entire regolithic unit was assayed with slightly anomalous silver and lead noted throughout. Assay results are presented in the Appendix of this report.

DDH 82-5 and DDH 82-6

Diamond drill holes 82-5 and 82-6 were drilled from the same collar at angles of -45° and -60° respectively, in order to intersect the mineralization encountered in Trench 2 at depth. Figure 12 illustrates line J-J' which is an east-west cross-section from Trench 2 through DDH 82-5 and DDH 82-6.

DDH 82-5 was drilled to a depth of 60 metres (197 feet). Disseminated galena was noted from 16.7 to 20.4 metres (55 to 67 feet) for 3.6 metres (12 feet), true width 0.93 metres (3 feet). The entire regolithic unit from 5.2 to 20.8 metres (17 to 68¼ feet) was assayed with the best assay values summarized below:

Sample Interval (feet)	oz/ton Ag	% Pb	
17'0" - 27'0"	3.22	1.63	
27'0" - 34'0"	0.36	0.25	
34'0" - 42'0"	0.40	1.07	
42'0" - 47'0"	0.70	1.68	
47'0" - 55'0"	0.58	1.45	
55'0" - 57'7"	3.40	8.73	continued



6 Regolith: orange to rusty colouring, highly fragmented, intensely weathered, siliceous, strongly limonitic.

5 Siltstone and Shale: lt.grey weathering with occ rusty stains, black carb, slightly arg siltstones, laminated, thinly bedded with minor interbedded carb chert. Thin to med bedded mod well indurated and very well sorted.

4 Chert, brecciated, carbonaceous.

3 Carbonaceous Dolomite Breccia: med to dk grey, white dolomite breccia filling, occ pyritic mudstone seams, often fetid.

2 Crystalline Dolomite Breccia: fine to coarsely crystalline, lt to med grey to beige dol, grey weathering with white dolomite breccia filling, locally vuggy and porous.

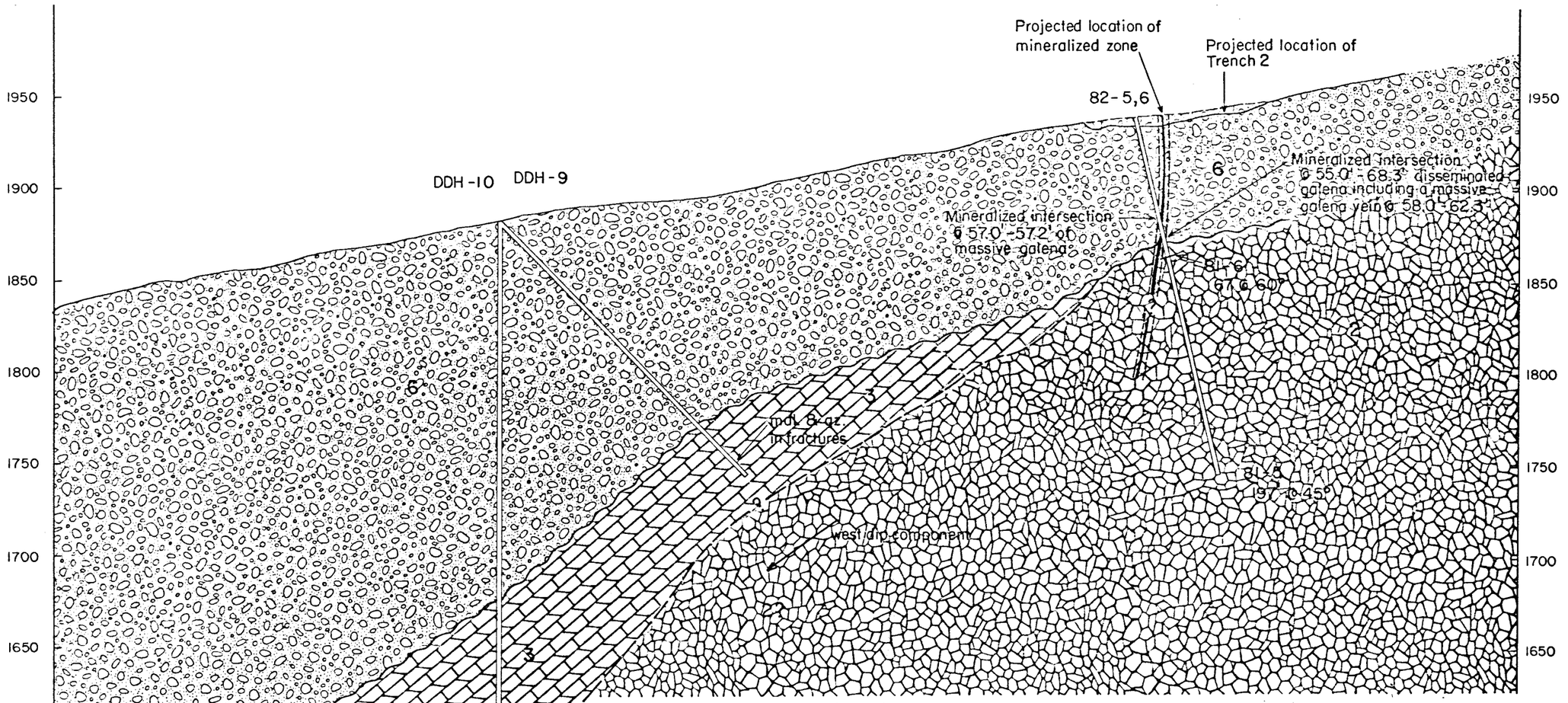
1 Carbonaceous Dolomite Breccia: med to dk grey, white dolomite breccia filling and sub-lithographic, locally fossiliferous.

~~~ Unconformable base of regolith.

Horizontal/vertical scale 1" = 100'
Looking @ 331°

Figure 11

CROSS-SECTION I - I'
~~~



Horizontal/vertical scale: 1 : 50 Looking @ 330°
Shortening factor = .794

6 Regolith: orange to rusty colouring, highly fragmented, intensely weathered, siliceous, strongly limonitic.

5 Siltstone and Shale: lt.grey weathering with occ rusty stains, black carb, slightly arg siltstones, laminated, thinly bedded with mnr interbedded carb chert. Thin to med bedded mod well indurated, very well sorted.

4 Chert, brecciated, carbonaceous.

3 Carbonaceous Dolomite Breccia: med to dk grey, white dolomite breccia filling, occ pyritic mudstone seams, often fetid.

2 Crystalline Dolomite Breccia: fine to coarsely crystalline, lt to med grey to beige dol, grey weathering with white dolomite breccia filling, locally vuggy and porous.

1 Carbonaceous Dolomite Breccia: med to dk grey, white dolomite breccia filling and sub-lithographic, locally fossiliferous.

~~~ Unconformable base of regolith.

Figure 12

CROSS-SECTION J-J'
~~~

Sample Interval (feet)	oz/ton Ag	% Pb	
57'7" - 58'0"	3.34	16.65	
58'0" - 59'0"	6.36	23.42	
59'0" - 59'9"	1.88	9.83	1.86 oz/ton Ag 5.92% Pb over 12 feet (3.6 m) true width 3 feet (0.93 m)
59'9" - 62'0"	13.92	52.61	
62'0" - 62'3"	1.16	10.92	
62'3" - 64'0"	1.00	3.01	
64'0" - 64'8"	1.38	3.25	
64'8" - 67'0"	8.38	1.77	
67'0" - 68'3"	0.54	0.21	

0.90 oz/ton Ag, 2.66% Pb, over 51¼ feet (15.6m), true width 13 feet (3.9 m)

Another section of core, from 32.6 to 35.0 metres (107 to 115 feet) consisting of a gossanous sandy-clay containing white angular quartz fragments was also assayed and returned some interesting results which are presented below:

Sample Interval (feet)	oz/ton Ag	% Pb	True Width
107'0" - 115'0"	8.02	6.60	2 feet (0.6 m)

This section of core is probably another mineralized quartz-silver-lead vein; however, in this instance, it has been deeply weathered. The existence of this second vein confirms the original hypothesis of a multi-vein system existing in this area.

DDH 82-6 was drilled to a depth of 20.4 metres (67 feet). The drill hole was then abandoned due to a broken core barrel. Attempts made to recover the core barrel proved fruitless.

The last piece of core recovered from the hole was 7.6 cm (3 inches) of massive galena. It is reasonable to assume, therefore, that the drill hole was just entering the zone of mineralization.

Due to the extremely weathered nature of the rock, core recovery was very poor. Sections of core assayed returned the following results:

Sample Interval (feet)	oz/ton Ag	% Pb
43'0" - 47'0"	9.80	1.19
47'0" - 51'0"	1.60	0.60
57'0" - 67'0"	9.34	31.22

No core was recovered in the footage interval 51' to 57' and the material assayed from the footage interval 57' to 67' was a 3-inch (7.6 cm) pience of massive galena.

Even with the poor recovery in this hole, it can be inferred that the mineralized vein exposed in Trench 2 extends to a vertical depth of 17.7 metres (58 feet) with a large supergene-enriched zone surrounding the mineralized vein.

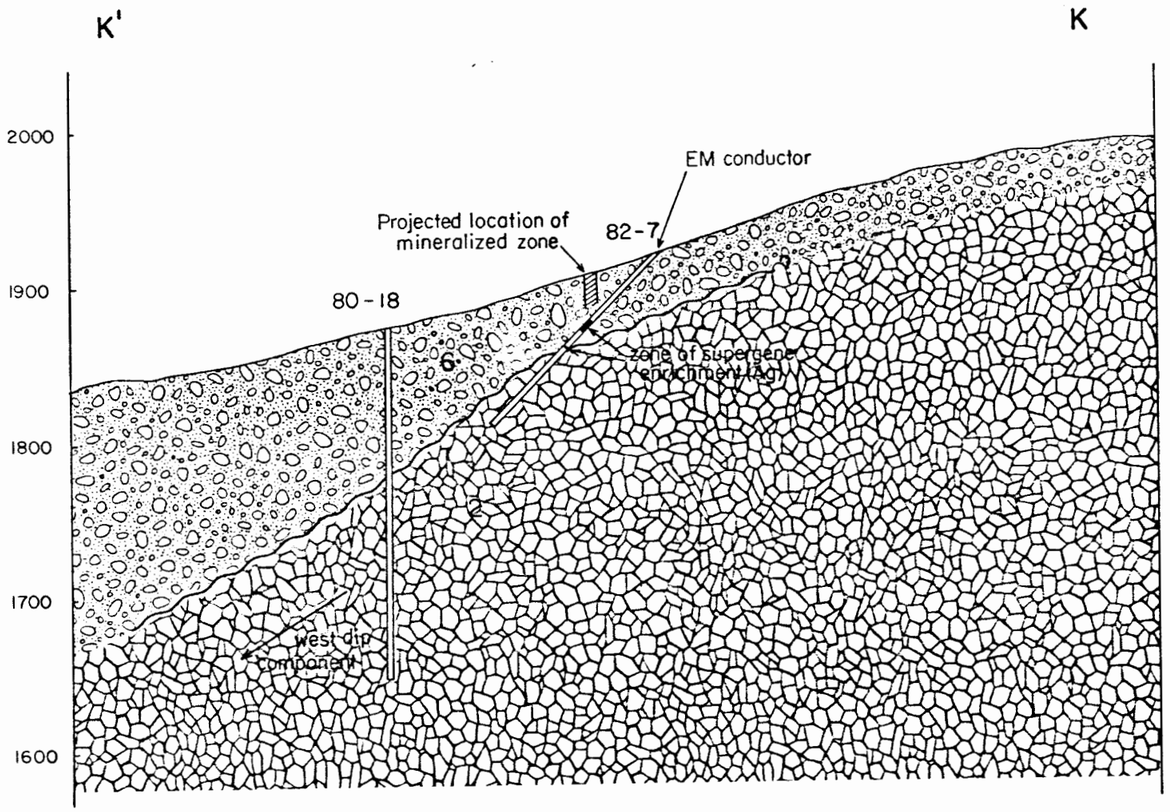
DDH 82-7

Diamond drill hole 82-7 was drilled with HQ core to a depth of 47.8 metres (157 feet) at an angle of -45° in the hope of intersecting the mineralization encountered in Trench 3 at depth, and to test the significance of a corresponding E.M. conductor. Cross-section K-K' is shown in Figure 13.

Recovery throughout the hole was very poor due to the extremely weathered nature of the rock. Sections of core were analyzed with the best assay values presented below:

Sample Interval (feet)	oz/ton Ag	
59.5' - 62.5'	1.96	1.95 oz/ton Ag
62.5' - 65.0'	1.94	over 5.5 feet (1.6 m)
78.0' - 80.0'	1.58	over 2 feet (0.6 m)

The drill hole was abandoned at 47.8 metres because of lost water circulation and drilling problem.



6 Regolith: orange to rusty colouring, highly fragmented, intensely weathered, siliceous, strongly limonitic.

5 Siltstone and Shale: lt grey weathering with occ rusty stains, black carb, slightly arg siltstones, laminated, thinly bedded with minor interbedded carb chert. Thin to med bedded mod well indurated and very well sorted.

4 Chert, brecciated, carbonaceous.

3 Carbonaceous Dolomite Breccia: med to dk grey, white dolomite breccia filling, occ pyritic mudstone seams, often fetid.

Crystalline Dolomite Breccia: fine to coarsely crystalline, lt to med grey to beige dol, grey weathering with white dolomite breccia filling, locally vuggy and porous.

Carbonaceous Dolomite Breccia: med to dk grey, white dolomite breccia filling and sub-lithographic, locally fossiliferous.

Unconformable base of regolith.

Horizontal/vertical scale 1" = 100'
Looking @ 280° (approx)

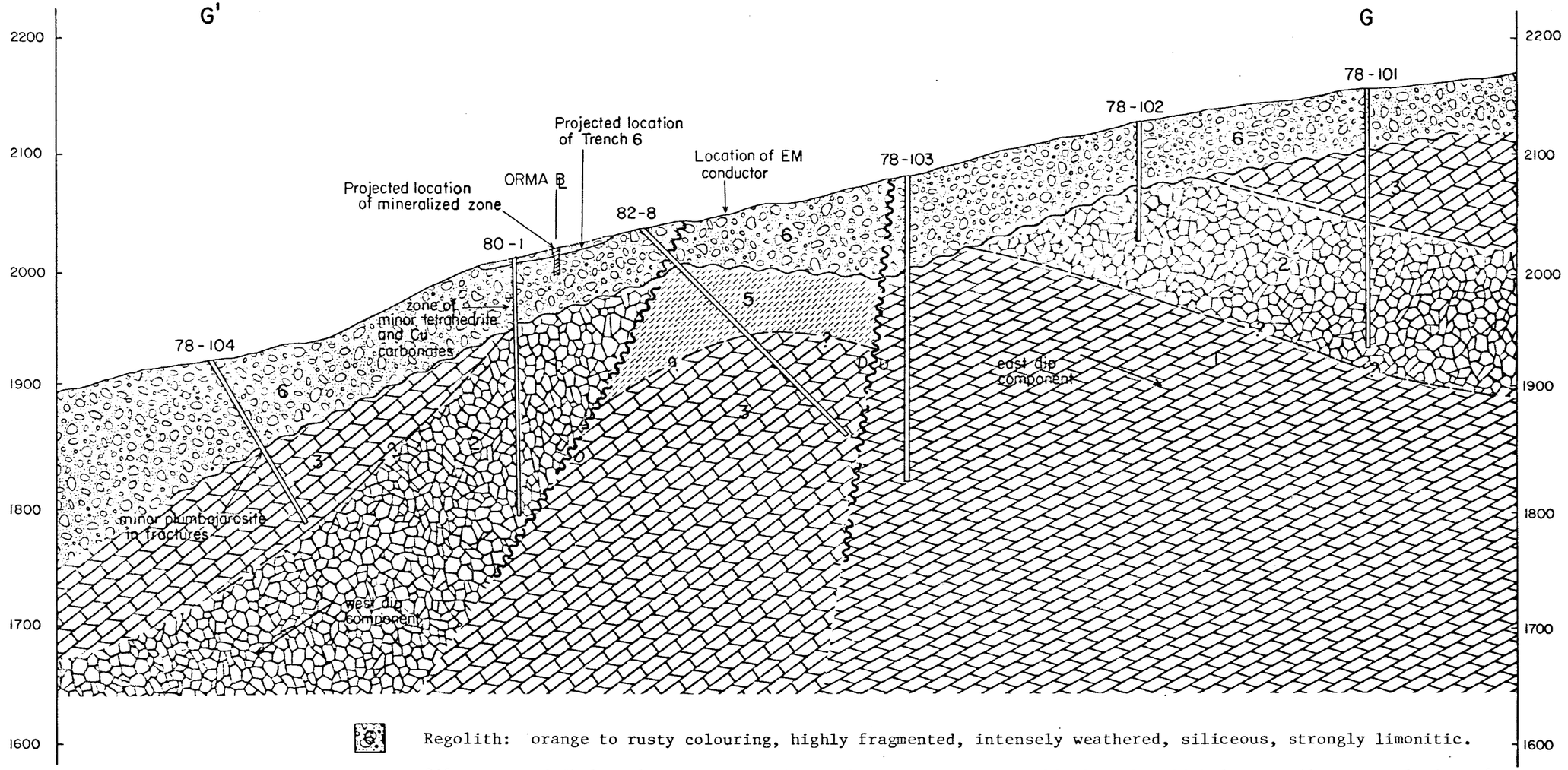
Figure 13
CROSS-SECTION K-K'

DDH 82-8

Diamond drill hole 82-8 was drilled with NQ core to a depth of 76.8 metres (252 feet) at an angle of -45^{o} to test the significance of an E.M. conductor located there. The structural interpretation of the area is illustrated in Figure 14 by cross-section G-G'.

Pyritic siltstone was encountered at a depth of 27.4 to 38.4 metres (90 to 126 feet), which would account for the E.M. conductor delineated in this area. This section of core was assayed with no significant analytical results. These assay results are presented in the Appendix.

The existence of the siltstone unit for the first 38.4 metres (126 feet) of the drill hole indicates the presence of a fault between DDH 82-1 and DDH 82-8.



Horizontal/vertical scale 1" = 100'
Looking @ 331°

6 Regolith: orange to rusty colouring, highly fragmented, intensely weathered, siliceous, strongly limonitic.

5 Siltstone and Shale: lt.grey weathering with occ rusty stains, black carb, slightly arg siltstones, laminated, thinly bedded with mnr interbedded carb chert. Thin to med bedded mod well indurated, very well sorted.

4 Chert, brecciated, carbonaceous.

3 Carbonaceous Dolomite Breccia: med to dk grey, white dolomite breccia filling, occ pyritic mudstone seams, often fetid.

2 Crystalline Dolomite Breccia: fine to coarsely crystalline, lt to med grey to beige dol, grey weathering with white dolomite breccia filling, locally vuggy and porous.

1 Carbonaceous Dolomite Breccia: med to dk grey, white dolomite breccia filling and sub-lithographic, locally fossiliferous.

~~~ Unconformable base of regolith.

Figure 14

CROSS-SECTION G-G'
~~~

CONCLUSIONS AND RECOMMENDATIONS

A total of eight diamond drill holes were completed during the drill program carried out on Orma Hill in the 1982 field season. Drill targets were defined by bulldozer trenching which exposed mineralized veins at the surface and by coincident VLF-E.M. conductors.

Of the eight holes completed, two encountered significant mineralization in the subsurface and minor amounts of mineralization were detected in five of the remaining six drill holes. The two best holes were DDH 82-5 and DDH 82-6 which were drilled on the same vein system. In DDH 82-5, a 15.6 metre (51¼ foot) mineralized zone assayed 0.90 oz/ton Ag and 2.66% Pb was encountered, true width of 3.9 metres (13 feet), with a mineralized core of disseminated galena assaying 1.86 zo/ton Ag and 5.92% Pb over 3.6 metres (12 feet), true width of 0.93 metres (3 feet). In DDH 82-6, a 7.3 metre (24 foot) intersection assaying 3.78 oz/ton Ag and 3.54% Pb was intersected. This hole bottomed in mineralization and recovery of core was extremely poor in the preceding mineralized section. Thus the results were somewhat ambiguous.

In two holes (DDH 82-1 and DDH 82-3), cavities were intersected in the subsurface where the surface projection of the vein system was anticipated. The absence of mineralization in these holes indicates the veins were weathered out at depth and thus substantial supergene enrichment may occur at depth.

An alternate interpretation is that the epithermal veins are deposited in tensional fractures developed along the axial portion of the Orma Anticline. If this is the case, these fractures would pinch out at a shallow depth.

In two holes drilled thus far (DDH 80-17 and DDH 82-2), flowage in the dolomites was observed at the bottom of these holes. This indicates proximity to a heat source in these holes. Given the nature of the mineralization present, i.e. epithermal veins emplaced at a temperature of about 200°C, this heat source is probably an intrusive body. Based on the lack of magnetic signature across Orma Hill, such an intrusive body

is most likely to be a granite or granodiorite with a temperature of formation of about 600°C. The fact that pervasive dolomitization and silicification occur in this area also supports the conclusion that a shallow intrusive body is present beneath Orma Hill.

If this conclusion is correct, the possibility exists of a mineralized hydrothermally altered contact zone between the intrusive and the dolomite country rock. Thus, the primary exploration target would be this contact zone rather than the observed epithermal veins which radiate outward from the intrusive. Geophysical evidence for the existence of such a buried ore body would be the gravity and E.M. conductors outlined by previous surveys along the northeast flank of the Orma Anticline.

It is recommended therefore that several deeper drill holes, totalling 457.2 metres (1,500 feet), be completed in order to evaluate the geophysical targets and to determine the presence and extent of supergene-enriched zones at depth.

Concurrent with this drilling program, the evaluation of drilling targets on Mike Hill should be undertaken. On Mike Hill, which is a much larger anticline as compared to the Orma, tensional fractures along which epithermal veins could be emplaced would tend to be wider and possibly more numerous. The geochemical signature for Mike Hill is distinctly different, being much more highly enriched in zinc relative to copper, lead, and silver. This may be the reflection of vertical zonation in the vein system. Since a thin cap of impermeable Hart River shale is preserved on the top of Mike Hill, some ponding of hydrothermal solutions beneath this contact may have occurred. Considerably more supergene mineralization has been observed on Mike Hill as compared to Orma Hill. Abundant secondary zinc mineralization in the form of smithsonite has been delineated both from surface exposures and in drill holes along with secondary copper and lead minerals. The presence of the mineral-rich "rusty springs" at the north end of Mike Hill is direct evidence that the supergene processes are active today.

The presence of garnets, which was reported from a drill section near Carrol Creek at the north end of Mike Hill, is taken as direct evidence of the proximity of a contact zone between the intrusive and the Ogilvie

Formation. Thus, the possibility of a contact or skarn type deposit may exist in this area.

Based on these observations, a drilling program is recommended to further evaluate the nature and distribution of the lead-zinc-copper-silver mineralization present on Mike Hill. This program should consist of approximately 915 metres (3,000 feet) of diamond drilling on Mike Hill.

The breakdown of costs anticipated in completing the next phase of drilling on Orma Hill and Mike Hill is presented in Appendix II of this report. The total cost of this drilling is estimated at $400,000.

A P P E N D I X I

SUMMARY OF EXPENDITURES
Rusty Springs, Yukon
Drill Program, August 9 to September 15, 1982

Diamond Drilling Costs			
E. Caron Diamond Drilling			
Aug. 13-31		46,703.65	
Sep. 1-15		43,248.61	89,952.26
Transportation & Travel			
Fixed-Wing Support (incl. mob, demob of drill crew and equipment)		49,767.42	
Travel Expenses		7,817.20	57,584.62
Caperpillar Rental			
(time spent on airstrip construction, drill site preparation, drill-road building)			
267 hours @ $90/hour			24,030.00
Caterpillar Operators			
G. Young	3 days travel @ $240/diem	720.00	
	117 hours @ $45/hour	5,265.00	
P. Kuptana	60 hours @ $45/hour	2,700.00	
N. Tremblay	100 hours @ $20/hour	2,000.00	10,685.00
Caterpillar Maintenance			2,572.09
Pre-Field Preparation			
Base map preparation, hiring, expediting, etc.			2,610.36
Personnel			
J. W. Davis (Project Supervisor)	12½ days @ $325/diem	4,062.50	
C. Aussant (Proj.Geol.)	35 days @ $275/diem	9,625.00	
J. Bankowski (Asst.Geol.)	15 days @ $250/diem	3,750.00	
M. Termuende (sampler, camp maintenance)	20 days @ $140/diem	2,800.00	
T. Termuende (sampler, camp maintenance)	16 days @ $140/diem	2,240.00	
I. Otterson (Cook)	30 days @ $120/diem	3,600.00	
R. Giles (Cook)	9 days @ $120/diem	1,080.00	27,157.50
Camp and Accommodation			
Camp Food	271 man days @ $25/diem	6,775.00	
Equipment	271 man days @ $ 5/diem	1,355.00	
Disposable supplies		445.99	
Fuel (turbo and propane)		758.86	9,334.85

Summary of Expenditures

Equipment Rentals			
Wajax Pump	35 days @ $25/diem	875.00	
Radio-telephone		924.00	1,799.00
Geochemical Analyses			
Loring Laboratories - core samples assayed for Au, Ag, Cu, Pb, Zn		5,629.50	
Loring Laboratories - sludge samples assayed for Ag, Cu, Pb, Zn		1,562.75	7,192.25
Miscellaneous			
Courier and Freight		1,267.58	
Expediting Services		1,137.92	
Maps, reports, airphotos, reproductions, telephone calls, radio-telephone calls		474.03	2,879.53
Post-Field Compilation			
Preparation of maps, reports; drafting, secretarial; reproductions			9,644.00
Handling Charges on third-party expenses @ 12%			6,552.79
		GRAND TOTAL	$ 251,994.25

I, CLAUDE H. AUSSANT, HEREBY CERTIFY THIS "SUMMARY OF EXPENDITURES" AS BEING CORRECT

Claude Aussant

SWORN BEFORE ME AT THE CITY OF CALGARY, ALBERTA THIS 22ND DAY OF NOVEMBER, AD 1982

A NOTARY PUBLIC IN AND FOR THE PROVINCE OF ALBERTA

W. ROY SHOULDICE
BARRISTER AND SOLICITOR

W. ROY SHOULDICE
BARRISTER AND SOLICITOR

PERSONNEL

Taiga Consultants Ltd.

James W. Davis	Project Supervisor	Aug. (12½ days)
Claude Aussant	Project Geologist	Aug. 9- Sep.15
Joe Bankowski	Assistant Geologist	Sep. 1-15
Mike Termuende	Sampler, Camp Maintenance	Aug. 27-Sep. 15
Tim Termuende	Sampler, Camp Maintenance	Aug. 12-27
Graham Young	Catskinner	Sep. 1-14
Iris Otterson	Cook	Aug. 9-Sep. 7
Rose Giles	Cook	Sep. 7-15
Philip Kuptana	Catskinner	60 hours
Nick Tremblay	Catskinner	100 hours

E. Caron Diamond Drilling

Joe McKeown	Foreman / Driller	Aug. 16-Sep. 14
Brian Dunn	Driller	Aug. 16-Sep. 14
Lech Wojakowski	Driller's Helper	Aug. 16-Sep. 14
Ken Wilshek	Driller's Helper	Aug. 16-Sep. 7
Len Smalka	Driller's Helper	Sep. 6-Sep. 14

DIAMOND DRILL LOG

TAIGA CONSULTANTS LTD.
SUITE 100, 1300 - 8TH STREET S.W.
CALGARY, ALBERTA T2R 1B2

DIAMOND DRILL HOLE No. 82-1

CLIENT: Kenton Natural Resources Corporation

PROJECT: Rusty Springs, Yukon Territory

LOCATION: 5+30N, 0+30W
BEARING: 215°
INCLINATION AT COLLAR: -45°
DIP TEST: none

LENGTH: 292 feet
ELEVATION: 2020 feet
CORE SIZE: HQ
LOG SCALE: 1:150

LOGGED BY: C. Aussant
ASSAYED BY: Loring Labs Ltd.
DATE COLLARED: Aug.19/82
DATE COMPLETED: Aug.22/82

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.
		0-50 Triconed (no recovery) Casing HW 0-50	
50		55 extremely brecciated lt-med grey dolomite, styolites noted, fetid, white dol & calcite interspacial fills, vuggy, vugs lined wtih euhedral calcite & dolomite crystals, fine to medium crystalline, slightly carbonaceous, occasional very large calcite crystals as infillings	0
60			100
			100
	U		100
70	N		100
	I		100
	T		100
80			100
	#	85 med-dk grey carbonaceous dolomite, brecciated	80
90	3	91 (same as 55) with stringers & blebs of black very carbonaceous dolomite 97 med.grey, brecciated dolomite, styolites noted, vuggy fine-med crystalline	100
100		103 (same as 91)	100
			100
			100
110		113 lt.med.grey, fine-med xalline dolomite, brecciated, vuggy, with euhedral dolomite xals lining vugs, calcite stringers	100
			100
120		116 extremely brecciated, carbonaceous dolomite, lt-med grey, with white dolomite fracture filling, stringers and blebs of black carbonaceous material, fetid.	100
		127 lt-med grey brecciated dol, styolites noted, fetid, fine to coarsely xalline, vuggy, vugs lines with euhedral dolomite xals.	100
130			100
		133 brecciated lt-med grey dol. fine to coarsely xalline with occasional carbonaceous seams & blebs, vuggy with euhedral dol xals lining vugs	100
140		136 iron staining along fractures 45° to core axis	100
		144-145 extremely brecciated with white dolo interspatial filling	

ASSAY RESULTS

CORE SAMPLE						SLUDGE SAMPLE				
Som.Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Som.Int.	Ag oz/T	Cu %	Pb %	Zn %
						0-15	.04	Tr	.02	.01
						15-20	.06	.01	.02	.02
						20-25	.20	Tr	.02	.02
						25-30	.04	Tr	.02	.01
						35-40	.08	Tr	.02	Tr
						40-45	.04	Tr	.03	.01
						86-91	.10	.01	.03	.01

DIAMOND DRILL HOLE No. 82-1 SHEET 2 OF 2

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS										
				CORE SAMPLE						SLUDGE SAMPLE				
				Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %
150			100											
			100											
		155-157 extremely brecciated, med grey finely xalline carbonaceous dolomote	100											
		157 lt-med grey brecciated dolomite, vuggy, fetid												
160		158-161 extremely brecciated	100											
		161 med-grey brecciated dolomite, vuggy with calcite stringers, fetid, fine-med xalline	100											
	U													
170	N		100											
	I													
	T	175 lt-med grey brecciated dolomite with stringers and blebs of dk.grey carbonaceous dolomite, vuggy, vugs	100											
180		lined with euhedral dolomite xals, styolites noted, fetid.	100											
	#	194-196 } dk.grey finely xalline dol with	100											
	3	198-199 } disseminated pyrite												
190			100											
			100											
200		202 med-coarsely xalline, lt-med grey, vuggy dolomite	100											
		with occ stringers of dk.grey carbonaceous dolomite	100											
		and minor pyrite, minor calcite xals, brecciated												
210		with white dolomite infilling, fetid, vugs lined	100											
		with euhedral dolomite xals, styolies noted.	100											
			100											
220		220 2 qtz stringers 45° to core axis .5 cm wide	100											
			100											
			100											
230		230 lt-med grey brecciated, med-coarse xalline dolomite	100											
		white dol infilling, minor Py, sections of extremely												
		brecciated dolomite to 247, vuggy, vugs lined with	100											
		euhedral dol xals; after 247 coarsely xalline dol,												
240		minor Py	100											
	U													
	N		100											
	I													
250	T		100											
			100											
	#													
260	2	261.5 lost water circulation	100	261-262	Tr	0.04	Tr	0.02	0.01					
		262 void (rods dropped 5 feet)	0											
		267 lt-med grey, vuggy coarsely xalline dol		267-268	Tr	0.12	Tr	0.02	0.01					
		268 lt-grey to yellow (limonite stained) coarsely	40	268-272	Tr	Tr	Tr	0.02	0.01					
270		xalline dolomite, vuggy, vugs lined with euhedral	20	272-275	Tr	0.14	Tr	0.02	0.01					
		dol xals. Two areas within this section of core	8	275-279	Tr	0.02	Tr	0.02	0.01					
		were voids, one 1½ feet, the other ½ foot wide.												
		279 white qtz with limonite staining, boxwork struct	30	279-281	Tr	0.22	0.07	0.26	0.07					
280		present, minor manganese staining		281-282	Tr	0.08	Tr	0.02	0.01					
		281 coarsely xalline dol vuggy, lt-grey with limonite	100	282-284	Tr	0.02	Tr	0.01	0.01					
	UNIT	staining along fractures		284-286	Tr	Tr	Tr	0.01	0.01					
	#2	282 coarsely xalline dolomite, brecciated, lt-grey		286-288	Tr	0.02	Tr	0.01	0.01					
		with stringers of dark grey dolomite, slight iron	100	288-290	Tr	0.04	Tr	0.01	0.01					
290		staining along fracture surfaces, very slightly	100											
		carbonaceous												
292														

DIAMOND DRILL LOG

TAIGA CONSULTANTS LTD.
SUITE 100, 1300 - 8TH STREET S.W.
CALGARY, ALBERTA T2R 1B2

DIAMOND DRILL HOLE No. 82-2

CLIENT: Kenton Natural Resources Corporation

PROJECT: Rusty Springs, Yukon Territory

LOCATION: L 0+80S, 1+25W
BEARING: 43°
INCLINATION AT COLLAR: -45°
DIP TEST: bottom hole 38° uncorrected

LENGTH: 300 feet
ELEVATION: 1990 feet
CORE SIZE: NQ
LOG SCALE: 1:150

LOGGED BY: C. Aussant
ASSAYED BY: Loring Labs Ltd.
DATE COLLARED: Aug.23/82
DATE COMPLETED: Aug.28/82

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS — CORE SAMPLE: Sam.Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	SLUDGE SAMPLE: Sam.Int.	Ag oz/T	Cu %	Pb %	Zn %
10		Triconed (no recovery) Casing NW 0-112												
20														
30														
40		41 regolith - grey extremely weathered dolomite, weathered to a gritty clay								35-40	.06	Tr	.02	.05
	U			41-42	Tr	0.46	Tr	0.02	0.18	40-45	.04	.02	.01	.07
	N	49 regolith - extremely weathered siliceous limonite stained dolomite and white hematite-stained qtz	14	42-49	Tr	0.32	0.01	0.01	0.10					
50	I													
	T	57 regolith - lt-med grey, med xalline vuggy dolomite, vugs lined with euhedral dol xals, very minor malachite staining noted, hematite-stained	10	49-57	Tr	0.54	0.07	0.05	0.02					
60	#													
	6		10	57-72	Tr	0.36	0.02	0.02	0.01					
70		72 regolithic dolomite, lt-med grey brecciated dol, hematite-stained, med xalline carbonaceous matter noted along fractures, minor malachite along fracs, vuggy, vugs lined with euhedral dol xals, white dol interspatial filling, minor calcite stringers 45° to core axis.	80	72-77	Tr	0.26	0.02	0.02	0.01					
			100	77-82	Tr	0.24	0.01	0.02	0.01					
80	transition between Units 6 and 2		83	82-87	Tr	0.40	0.01	0.03	0.01					
			100	87-90	Tr	0.60	0.01	0.02	0.01	85-90	.04	.02	.02	.04
90		93 med-dk.grey carbonaceous dolomite, salt&pepper appearance, extremely weathered. Weathers to a grey clay.	100	90-93	Tr	0.14	Tr	0.01	0.01	90-95	.06	.06	.03	.06
		94 med-coarsely xalline, fetid dolomite, lt-med grey, brecciated, vuggy, vugs lined with euhedral dol xals, white dol and calcite interspatial filling, styolites noted, occasional white dol stringers .5 cm wide, minor hematite and manganese staining along fractures, minor amounts of carbonaceous clay stringers 1mm wide.		93-94	Tr	0.08	0.01	0.02	0.01					
			100											
100			100											
			100											
	U		83											
110	N	156.5-157 dark grey dol with diss Py	100											
	I													
	T	157 3" clay seam	100											
120		157-160 med grey carbonaceous dol												
	#		90											
	2													
130			100											
			100											
140			100											
			100											

DIAMOND DRILL HOLE No. 82-2

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS — CORE SAMPLE: Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	SLUDGE SAMPLE: Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %
150	UNIT # 2		100											
			100											
160		167 lt-med grey dol, extremely brecciated, white dol infilling, fine-med xalline, vuggy, vugs lined with euhedral dol xals, styolites noted, numerous white dol strgs present, amount of carbonaceous strgs increasing, sub-lithographic	100											
			100											
170			100											
		178 dk.grey carbonaceous dol, med xalline, salt&pepper appearance, brecciated with white dol stringers, disseminated pyrite.	100											
180		181 extremely brecciated lt-med grey dol carbonaceous, vuggy, vugs lines with euhedral dol xals, styolites noted, med xalline, fetid white dol infilling, sub-lithographic.	100											
190		184 lt-med grey brecciated dol, carbonaceous, white dol infilling, fine-med xalline, minor hematite stain along fracs, vuggy lined with euhedral dol xals	100											
		193 dk.grey illite clay seam	100											
		196.5 very carb lt-med grey dol, white dol infilling, brecciated, Py strgs assoc with the carb areas	100											
200		202 lt-med grey brecciated dol, vuggy, vugs lines with euhedral dol xals, fine-med xalline, minor diss Py, white dol infilling, occ dol & calc strgs, styolites noted, occ carb strgs with assoc Py, fetid, small sections med-coarsely xalline.	100											
			100											
210	UNIT	215, 221 } carb Py strgs, .5cm wide, hematite stained	100											
		226-229.5 pseudo marble, flow banded, lt-med grey dol, pyritic bands, manganese staining along fractures	100											
220			100											
			100											
230		236 med-dk.grey med-coarsely xalline, vuggy dol, vugs lined with euhedral dol xals, occ dol strgs, brecciated, styolites noted, fetid, white dol infilling	100											
	#		100											
		244.2 7" wide dk.black clay seam	100											
240	1	245 hematite stained along frac surfaces												
		248-249 extremely fractured med-grey dol, hema & limonite stained along fracs	100	243.16-244.16	Tr	0.08	Tr	0.02	0.01					
				244.16-244.83	Tr	0.10	Tr	0.02	0.01					
				244.83-245.25	Tr	0.44	Tr	0.02	0.01					
		255-259 frequent pyritic carb dk.grey-black stringers present	100											
250			100											
		259 extremely fractured lt-med grey dol vuggy, limonite stained along frac surfaces, brecciated white dol infilling, dol strgs frequent, vugs lined with euhedral dol xals.	100											
			100											
260		264-5 3" wide dk.grey-black pyritic clay seam (illite)	75	264.5-264.75	Tr	0.14	0.01	0.03	0.02					
			100											
		271 med.grey, med xalline dol, brecciated, frequent dol strgs, styolites noted, vuggy, vugs lined with euhedral dol xals, minor hematite staining along fractures	100											
			75	277-278	Tr	Tr	Tr	0.02	Tr					
		277 dk.grey-black mixed illite clay & dol 50% recov	100											
280		278 finely xalline, weakly foliated lt-grey dol, manganese strgs at 279; minor limonite staining along fractures.	100											
		280.5 coarsely xalline, lt-grey vuggy dol., brecciated fetid, euhedral dol xals lining vugs	100											
290														
		286 weakly foliated, fine-med xalline dol, minor limonite staining along fracs, carb pyritic, vuggy, brecciated.	100											
			100											
300														

DIAMOND DRILL LOG

TAIGA CONSULTANTS LTD.
SUITE 100, 1300 - 8TH STREET S.W.
CALGARY, ALBERTA T2R 1B2

DIAMOND DRILL HOLE No. 82-3

CLIENT: Kenton Natural Resources Corporation

PROJECT: Rusty Springs, Yukon Territory

LOCATION: L 5+00S, 3+00E
BEARING: 235°
INCLINATION AT COLLAR: -45°
DIP TEST: @ 161 37° uncorrected

LENGTH: 221 feet
ELEVATION: 2122 feet
CORE SIZE: NQ
LOG SCALE: 1:150

LOGGED BY: C. Aussant
ASSAYED BY: Lorings Labs Ltd.
DATE COLLARED: Aug. 29/82
DATE COMPLETED: Sep. 1/82

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS — CORE SAMPLE						ASSAY RESULTS — SLUDGE SAMPLE				
				Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %
		Triconed (no recovery) Casing NW 0-56												
35.5		Lt-med grey fractured siltstone, white dol frac filling, qtz strgs frequent, hematite stained along frac surfaces, vuggy, vugs lined with euhedral qtz xals, oxidized Py assoc with qtz strg	100											
40		White vuggy qtz, vugs lined with prismatic qtz xals, hematite stained, boxwork structures present	100	40-42.5	Tr	0.16	Tr	0.01	Tr					
42.5		Lt-med grey siltstone (as 35.5)	40	42.5-52	Tr	0.08	Tr	0.01	Tr					
52		White quartz (as 40)												
52.5		Rusty brown sand												
54.5		White quartz, vuggy, vugs lined with prismatic qtz xals, hematite stained, boxwork structures present												
	U N I T # 6		100	52-52.5	Tr	0.16	Tr	0.01	0.06					
				52.5-54.5	Tr	0.14	0.01	0.06	0.62					
			50	54.5-60	Tr	0.06	Tr	0.01	0.01					
			100											
			50	60-62	Tr	0.02	Tr	0.01	0.02					
			100	62-67	Tr	0.10	Tr	0.01	0.01	62-67	.06	.02	.02	.12
			90	67-72	Tr	0.12	Tr	0.01	0.02	67-72	.04	.02	.01	.12
			100	72-77	Tr	0.08	Tr	0.01	Tr	72-77	.04	.01	.02	.06
77		Rusty brown deeply weathered siltstone, qtz strgs present 82-82.5 qtz (as 40)	100	77-82	Tr	0.20	Tr	0.02	0.24	77-82	.04	.01	.03	.21
				82-82.5	Tr	0.24	Tr	0.01	0.02					
84.5		White qtz, boxwork structures numerous, hematite stained, vuggy, vugs contain prismatic qtz xals, sections of deeply weathered rusty brown to grey siltstone containing numerous qtz strgs between: 86-87 92-93.5 94-96 97.5-102.5 105-107	100	82.5-84.5	0.016	0.10	Tr	0.02	0.28	82-87	.04	.01	.03	.16
				84.5-86	Tr	0.06	Tr	0.02	0.03					
				86-87	0.012	0.24	Tr	0.01	0.13					
			90	87-92	Tr	0.14	Tr	0.01	0.03	87-92	.06	.01	.02	.16
			100	92-93.5	Tr	0.20	Tr	0.01	0.11	92-97	.04	.01	.02	.13
				93.5-94	Tr	0.02	Tr	0.01	0.01					
				94-96	Tr	0.08	Tr	0.02	0.10					
				96-97.5	Tr	0.06	Tr	0.01	Tr					
			100	97.5-102.5	Tr	Tr	Tr	0.01	0.01	97-102	.04	.01	.02	.08
			100	102.5-105	Tr	0.10	Tr	0.01	Tr	102-107	.04	.01	.02	.04
				105-107	Tr	0.26	Tr	0.01	Tr					
110		Deeply weathered med.brown to med.grey siltstone, hematite stained, minor vugs with euhedral dol xals, brecciated with occ vugs line with qtz xals.	100	107-110	Tr	0.18	Tr	0.01	Tr	107-112	.06	.03	.03	.12
117		Rusty brown very deeply weathered siltstone with occ qtz strgs, hematite stained		110-112	Tr	0.10	0.02	0.08	0.01					
119		Lt.grey to rusty brown deeply weathered brecciated siltstone with numerous qtz strgs.	100	112-117	Tr	0.14	Tr	0.01	0.01	112-117	.06	.03	.03	.16
121.5		White qtz, hematite stained, vuggy with prismatic qtz xals.	100	117-119	Tr	0.14	0.08	0.06	0.11					
122.6		4-5" wide med.brown clay seam		119-121.5	Tr	0.12	0.01	0.02	0.01	117-122	.04	.02	.03	.07
123		Med-dk.grey siltstone, numerous qtz strgs, minor fossils, minor hematite staining along frac surfs.		121.5-122.6	Tr	Tr	Tr	0.01	Tr					
133		Siltstone lt.greyish brown, brecciated hematite stained along frac surface, occ qtz stringers		122.6-123	Tr	0.08	0.01	0.02	0.02					
	U N I T # 5		100							122-127	.04	.03	.03	.09
			100							127-132	.08	.06	.04	.11
			100							132-137	.04	.01	.02	.03
141.5		Med-dk.grey brecciated siltstone, minor fossils present, frequent very narrow qtz strgs, hematite stained along frac surfaces, laminated . . .	100							137-142	.04	.01	.02	.03
			100							142-147	.04	.01	.01	.05

DIAMOND DRILL HOLE No. 82-3

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS										
				CORE SAMPLE						SLUDGE SAMPLE				
				Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %
		in sections, bryozoa fossils.												
150		152 - One speck of green malachite staining noted in a qtz strg.	95							147-152	.06	.01	.02	.04
		157.5 Rusty brown to grey, med.grained siltstone, hematite stained, calcareous	95											
			100											
160		161 Med-dk.grey, fine-med.grained siltstone, calcareous, occ qtz & calcite strgs present, minor diss Py, white calcite rhombs filling pore spaces.	~~100~~											
			83											
			83											
170		176 Lt.greyish brown to rusty brown siltstone, extremely fractured, hematite stained.	100											
		178 - 6" grey mud seam	100											
		178.5 Lt-grey to rusty grey siltstone, hematite stained along frac surfaces.	50	176-178	Tr.	0.18	0.02	0.01	0.02					
180		195 - 2" grey mud seam	100											
			100											
190			100											
		207 Lt.grey-lt.greyish brown siltstone with calcite infilling, narrow bands of black calcareous fossiliferous matter scattered throughout core (Bryozoa, Cyclostomata), diss Py.	100											
200			100											
		211.5 Lt.greenish grey massive very fine-grained siltstone	100											
210			100											
		214 VOID (rods dropped)	7											
221		220.5 Hematite-stained siltstone												

DIAMOND DRILL LOG

TAIGA CONSULTANTS LTD.
SUITE 100, 1300 - 8TH STREET S.W.
CALGARY, ALBERTA T2R 1B2

DIAMOND DRILL HOLE No. 82-4

CLIENT: Kenton Natural Resources Corporation

PROJECT: Rusty Springs, Yukon Territory

LOCATION: L 9+05N, 2+00W
BEARING: 50°
INCLINATION AT COLLAR: -46°
DIP TEST: Bottom Hole, 39° uncorrected

LENGTH: 187 feet
ELEVATION: 1970 feet
CORE SIZE: NQ
LOG SCALE: 1:150

LOGGED BY: C. Aussant
ASSAYED BY: Loring Labs Ltd.
DATE COLLARED: Sep. 2/82
DATE COMPLETED: Sep. 4/82

DEPTH	LITHO	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS – CORE SAMPLE						ASSAY RESULTS – SLUDGE SAMPLE				
				Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %
		0-12 Triconed (no recovery) 0-40 NW Casing												
10		14-38 White xalline qtz, vuggy, 2 very small xals of galena noted, some vugs iron-stained, prismatic qtz xals plentiful 26 - one speck galena	100	14-17	Tr	0.06	Tr	0.02	Tr					
20			22	17-26	Tr	0.16	Tr	0.09	Tr					
			50	26-28	Tr	0.06	Tr	0.02	Tr					
30			75	28-30	Tr	0.06	0.01	0.09	0.01					
	U	38-40 Extremely decomposed dolomite, silicified, fractured with xalline qtz filling, brecciated	14	30-38	Tr	0.26	Tr	0.03	Tr					
	N		40	38-40	Tr	0.10	0.01	0.18	0.02					
40	I	40-46 White xalline qtz, vuggy, fractured with iron stain on fracs, xals in vugs 43-44 diss cubic galena	80	40-43	Tr	0.26	Tr	0.27	0.01					
	T			43-44	Tr	0.06	Tr	0.36	Tr					
		46-47 Qtz-dolomite breccia, v.f.g. matrix		44-46	Tr	0.08	Tr	0.05	0.01	42-47	.16	.10	.42	.08
	#			46-47	Tr	0.60	0.01	0.12	0.02					
50	6	47-48.5 White hematite-stained qtz, vuggy with qtz xals.	40	47-48.5	Tr	0.02	Tr	0.03	0.01					
		48.5-56 Greyish-brown to rusty brown sandy clay (probably deeply weathered siliceous dolomite)		48.5-56	Tr	0.12	0.02	0.27	0.12	47-57	.12	.05	.24	.07
60			65	56-59	Tr	0.06	Tr	0.03	0.01					
		56-59 Vuggy white qtz, vugs lined with prismatic qtz xals, diss Py		59-67	Tr	0.18	0.02	0.33	0.14	57-67	.04	.03	2.5	.12
		59-85 Rusty brown sandy clay (probably deeply weathered siliceous dolomite)												
70			80	67-77	Tr	0.14	0.01	0.32	0.15	67-77	.68	.02	.78	.11
			50	77-85	Tr	0.16	0.01	0.26	0.09					
80		85-100 Lt-med grey dol with narrow calcite and qtz strgs, white calcite infilling, brecciated, f-med xalline, hematite stained along frac surfaces, occ carbon strgs, qtz strgs up to 1 cm wide, vuggy and lined with prismatic xals 92 - one pebble of massive galena 1"x½"x½"								77-87	.22	.02	.25	.11
			90							87-97	.56	.02	.23	.10
90														
	Transition zone between Unit #2 to Unit #3	100-115.5 Med-dk.grey brecciated med.xalline dol, calcite infilling, numerous qtz strgs, vuggy, hematite staining along fractures 102 - qtz stringer 1-2cm wide cutting core at ≃40°, vuggy - composed of numerous prismatic qtz xals.	100											
100														
		115.5-131 Lt.-med grey brecciated dol, numerous qtz and carbonaceous strgs, f-med xalline, extremely carbon-rich sections: 116-117, 118.5-119.5, 123-124, 125-126, 127-128, 130-131.	100											
110														
			100											
120														
		131-152 Med-grey fetid med-coarsely xalline, vuggy dol, vugs lined with euhedral dol xals, brecciated, white dol infilling, occ calcite strgs and carbonaceous strgs.	100											
130			100											
	U		100											
	N													
	I													
140	T													
	#													
	2													

DIAMOND DRILL HOLE No. 82-4

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS										
				CORE SAMPLE						SLUDGE SAMPLE				
				Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %
150	U N I T # 2	152-187 Lt-med grey, fine-med xalline, brecciated dolomite, hematite stained along carbonaceous strgs. Fine xalline sections very carbon-rich. Coarsely xalline sections vuggy (as 131-152) with carbonaceous strgs. Finely xalline sections: 152-164 170-175 179.5-181.5	100											
160			100											
170			100											
180			100											
187														

DIAMOND DRILL LOG

TAIGA CONSULTANTS LTD.
SUITE 100, 1300 - 8TH STREET S.W.
CALGARY, ALBERTA T2R 1B2

DIAMOND DRILL HOLE No. 82-5

CLIENT: Kenton Natural Resources Corporation

PROJECT: Rusty Springs, Yukon Territory

LOCATION: L 10+90N, 2+00W
BEARING: 120°
INCLINATION AT COLLAR: -45°
DIP TEST: Bottom hole, 37° uncorrected

LENGTH: 197 feet
ELEVATION: 1935 feet
CORE SIZE: NQ
LOG SCALE: 1:150

LOGGED BY: C.Aussant & J.Bankowski
ASSAYED BY: Loring Labs Ltd.
DATE COLLARED: Sep. 5/82
DATE COMPLETED: Sep. 6/82

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS — CORE SAMPLE						ASSAY RESULTS — SLUDGE SAMPLE				
				Sam.Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam.Int.	Ag oz/T	Cu %	Pb %	Zn %
		0-12 Tricone (no recovery) Casing NW 0-12												
10		12 Regolith - pebbles recovered consisting of med-dk.grey siliceous sublithographic dolomite and white iron-stained quartz, galena pebble noted at 20 feet	0											
20	U N I T	27 Regolith consisting of completely decomposed siliceous med-dk.grey sublithographic dolomite, minor white qtz xals.	10	17-27	Tr	3.22	0.03	1.63	0.01					
30	# 6	34 Regolith, composed of heavily decomposed rusty brown dolomite and white qtz xals.	70	27-34	Tr	0.36	0.04	0.25	0.01	27-37	.48	.14	.66	.07
40		42 Dolomite very heavily gossaned, goethite crust and prismatic qtz xals, decomposed to a rusty brown sandy clay	80	34-42	Tr	0.40	0.08	1.07	0.09	37-47	.56	.11	.69	.07
				42-47	Tr	0.70	0.10	1.68	0.21					
		47 Regolith composed of dk.grey to black sandy clay												
50		55 Decomposed siliceous dolomite with diss galena, rusty brown iron stained	53	47-55	Tr	0.58	0.15	1.45	0.11	47-52	.52	.12	.81	.09
		57.7 Diss galena in dk.grey dolomite		55-57.7	Tr	3.40	0.21	8.73	0.06	52-57	.58	.12	.87	.08
60		58 Massive galena in dk.grey dolomite matrix 59 Diss galena in narrow qtz strg, plumbojarisite in strgs at 59.5	75	57.7-58	Tr	3.34	0.02	16.63	0.01	57-62	.96	.13	1.58	.08
				58-59	Tr	4.36	0.02	23.42	Tr					
				59-59.9	Tr	1.88	0.08	9.83	0.01					
		59.9 Massive galena with qtz inclusions		59.9-62	Tr	13.92	0.02	62.61	Tr					
		62.25 Heavily oxidized clay and gossanous material with a silver metallic luster		62-62.3	Tr	1.16	0.42	10.92	0.09					
				62.3-64	Tr	1.00	0.27	3.01	0.02					
		64.8-67 white vuggy qtz with specks of galena		64-64.8	0.006	1.38	0.04	3.25	0.01	62-67	1.90	.13	5.10	.07
				64.8-67	Tr	8.38	0.10	1.77	0.02					
70			60	67-68.3	Tr	0.54	0.01	0.21	0.02	67-72	1.98	.11	1.54	.06
		68.25 Dolomite lt-med.grey, fine-med xalline, frac'd and brecciated with dolomite & calcite breccia filling, locally heavily brecciated with argillaceous-carbonaceous breccia filling containing diss Py.	100							72-77	1.08	.09	1.04	.05
80	U N I T	77 Tr malachite staining 103-107 Partially decomposed, numerous qtz strgs	100											
90			100											
100	# 2	107 White angular qtz frags in a rusty brown iron-stained gossanous sandy-clay	100											
110		115 Dolomite, lt-med.grey, med.xalline, frac'd and brecciated with abundant calcite & argillaceous-carbonaceous breccia filling containing diss Py	25	107-115	Tr	8.02	0.16	6.60	0.07					
		139-146 Extremely brecciated, lt-med.grey dolomite, white dol infilling, numerous qtz strgs containing diss Py												
120			100											
130			100											
140			100											

DIAMOND DRILL HOLE No. 82-5

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS										
				CORE SAMPLE						SLUDGE SAMPLE				
				Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %
		146 Dolomite, coarsely xalline, lt-med.grey, brecciated and vuggy, vugs lined with euhedral dolomite xals, occ qtz strgs, prominent white dol breccia filling, occ sections of finely xalline carbonaceous-rich dolomite												
150	U N I T # 2		100											
160			100											
170			100											
180			100											
190			100											
197														

DIAMOND DRILL LOG

TAIGA CONSULTANTS LTD.
SUITE 100, 1300 - 8TH STREET S.W.
CALGARY, ALBERTA T2R 1B2

DIAMOND DRILL HOLE No. 82-6

CLIENT: Kenton Natural Resources Corporation

PROJECT: Rusty Springs, Yukon Territory

LOCATION: L 10+90N, 2+00W
BEARING: 120°
INCLINATION AT COLLAR: -60°
DIP TEST: none

LENGTH: 67 feet
ELEVATION: 1935 feet
CORE SIZE: NQ
LOG SCALE: 1:150

LOGGED BY: J. Bankowski
ASSAYED BY: Loring Labs Ltd.
DATE COLLARED: Sep. 6/82
DATE COMPLETED: Sep. 7/82

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS — CORE SAMPLE: Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	SLUDGE SAMPLE: Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %
		0-12 Triconed (no recovery) Casing NW 0-67	0											
10		12 Regolithic dolomite dk.grey, finely xalline, sublithographic, completely silicified, fractured with iron staining coating fractures.	23											
		17 Regolith consisting of dk.grey silicified, finely xalline, sublithographic dolomite & xalline qtz, fractured.												
20	U	21 Intercalated dolomite fragments with white xalline qtz up to 1 cm.	15											
	N	27 Regolith composed of dk.grey silicified dolomite, finely xalline to sublithographic, vuggy, qtz fracture filling	25											
30	I		16											
	T													
	#													
40	6	43 Regolith composed of dolomite completely decomposed to dk.grey rubble, slight gossan develop.	20							37-47	2.80	.10	.36	.04
		47 Regolith composed of completely decomposed dolomite consisting of brown mud.		43-47	Tr	9.80	0.11	1.19	0.05					
		47-47.7 slightly indurated med.grey silky clay	56	47-51	Tr	1.60	0.10	0.60	0.01					
50		51 No core recovered (probably a sand)	0							47-57	1.98	.10	.85	.04
		57 Pebbles of massive xalline galena with minor frags of white xalline qtx, only 3" of pebbles out of the 10' drilling recovered.								57-62	3.16	.11	1.71	.04
60			3	57-67	Tr	9.34	0.07	31.22	0.01	62-67	2.78	.12	1.13	.05
		Hole terminated due to broken core barrel, not recovered												
67														

DIAMOND DRILL LOG

TAIGA CONSULTANTS LTD.
SUITE 100, 1300 - 8TH STREET S.W.
CALGARY, ALBERTA T2R 1B2

DIAMOND DRILL HOLE No. 82-7

CLIENT: Kenton Natural Resources Corporation

PROJECT: Rusty Springs, Yukon Territory

LOCATION: L 11+40N, 1+95W
BEARING: 284°
INCLINATION AT COLLAR: -45°
DIP TEST:

LENGTH: 157 feet
ELEVATION: 1920 feet
CORE SIZE: HQ
LOG SCALE: 1:150

LOGGED BY: C. Aussant
ASSAYED BY: Loring Labs Ltd.
DATE COLLARED: Sep. 7/82
DATE COMPLETED: Sep. 9/82

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS — CORE SAMPLE: Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	SLUDGE SAMPLE: Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %
		0-12 Triconed (no recovery) Casing HW 0-51	0											
10		32-52 Recovery poor, recovering small pieces of dk. grey siliceous dol & qtz pebbles, weathering a prevalent rusty brown												
20		52-62.5 Recovery poor, dk.grey deeply weathered brecc dol, carbonaceous, secondary yellow stain throughout	0											
30		62-5-74 Dk.metallic grey sandy clay, greenish-grey sections of deeply weathered brecc dolomite												
	U	74-78 Greenish-grey deeply weathered dolomite, brecc, yellow oxide staining along fractures												
40	N I T	78-80 Dk.brown-rusty brown sandy clay (probably deeply weathered dolomite)	30											
		80-83 Yellow-rusty brown clayey sand, gossan material with qtz strgs (probably deeply weathered siliceous dolomite)	30											
50	#	83-85 Deeply weathered qtz breccia, rusty brown in colour.	10											
	6	85-86 Extremely fractured white qtz, dk.rusty hematite staining along fractures	60											
60		86-108 Lt.grey, fine-med xalline dolomite, white dol infilling, brecciated, styolites noted, reddish hematite staining along fractures, extremely broken up, vuggy, vugs lined with dol xals.		59.5-62.5	Tr	1.96	0.01	0.13	0.02					
			100	62.5-65	Tr	1.94	0.01	0.28	0.01					
			78	65-72	Tr	0.44	0.01	0.12	Tr					
70		108-109 Gossan, dk.rusty brown brecciated qtz (prob'ly dol infilling around qtz), extremely weathered	50	72-74	Tr	0.46	0.01	0.05	Tr					
		109-137 Lt-med.grey brecciated fine-med xalline dol, white calcite infilling, calcite strgs numerous extremely fractured, hematite stained along some fracture surfaces, vuggy, vugs lined with euhedral dol xals, fetid,		74-78	Tr	0.04	0.01	0.05	Tr					
80			62	78-80	Tr	1.58	0.03	0.31	0.02					
				80-83	Tr	0.38	0.57	0.12	0.05					
			100	83-85	Tr	0.64	0.21	0.27	0.03					
				85-86	Tr	0.36	0.03	0.08	0.01					
		Qtz pebbles recovered at 127 132-135	43											
90		Qtz strgs at 135 and 137	100											
		137-157 No recovery. Sand at 137, pushed NQ rods as casing drilled through HQ bit. Started coring again at 152 to 157. Core barrel stuck, tried to pull NQ rods, they stuck, finally pulled HQ and NQ rods together. Abandoned hole due to sand and no water return. Two small pieces of dolomite recovered from core barrel, barrel catch packed with sand.	100											
100			60											
			25											
110				108-109	Tr	0.28	0.06	0.09	0.03					
			75											
			70											
			50											
120			100											
			83											
			100											
130			50											
			17											
			40											
140			0											

DIAMOND DRILL LOG

TAIGA CONSULTANTS LTD.
SUITE 100, 1300 - 8TH STREET S.W.
CALGARY, ALBERTA T2R 1B2

DIAMOND DRILL HOLE No. 82-8

CLIENT: Kenton Natural Resources Corporation

PROJECT: Rusty Springs, Yukon Territory

LOCATION: L 0+35N, 0+65E
BEARING: 70°
INCLINATION AT COLLAR: -45°
DIP TEST: Bottom hole, 38° uncorrected

LENGTH: 252 feet
ELEVATION: 2035 feet
CORE SIZE: NQ
LOG SCALE: 1:150

LOGGED BY: C. Aussant
ASSAYED BY: Loring Labs Ltd.
DATE COLLARED: Sep. 10/82
DATE COMPLETED: Sep. 12/81

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS										
				CORE SAMPLE						SLUDGE SAMPLE				
				Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %
		0-47 Triconed (no recovery) Casing NW 0-52												
10														
20														
30														
40														
		47-90 Very dk.grey extremely fractured siltstone, yellow iron staining along fracture surfaces, vuggy, narrow grey to greyish-brown clay seams between 56-62 62 4" silvery-grey clay seam 66 1" silvery-grey clay seam 73-75 brownish-grey clay 77-81 narrow clay seams, grey 84 1" lt-grey clay seam 89 2" lt-grey clay seam	100											
50			100											
			100											
60			60											
	U		50											
	N		50											
70	I													
	T		60											
80			95											
	#		70											
	5	90-126 Very dk.grey vuggy siltstone. Iron staining along fracture surfaces, diss Py throughout unit. Vugs are rhombohedral to cubic in outline, probably weathered-out pyritic xals. 119 2" silvery-grey mud seam	100	90-92	Tr	Tr	Tr	0.01	Tr					
90			100	92-97	Tr	0.02	0.01	0.01	Tr					
			100	97-102	Tr	Tr	0.01	0.01	0.02					
100			100	102-107	Tr	Tr	0.01	0.01	0.01					
			100	107-112	Tr	0.12	0.01	0.01	0.01					
110			100	112-117	Tr	Tr	0.01	0.01	Tr					
			100	117-122	Tr	Tr	0.01	0.01	Tr					
120			100	122-126	Tr	Tr	0.01	0.01	Tr					
		126 Lt-med grey dolomite, brecciated, carbonaceous sections and stringers throughout, reddish-brwn iron staining along fracture surfaces, vuggy with euhedral dol xal lining vugs, white dol & calcite infilling. Fine-med xalline, strgs of dol.numerous 127-128 Argillaceous	70											
130	U		80											
	N		40											
	I		75											
140	T													
	#													
	3													

DIAMOND DRILL HOLE No. 82-8

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS										
				CORE SAMPLE						SLUDGE SAMPLE				
				Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %
		142-143 Extremely carbonaceous												
150			100											
			100											
160			100											
			100											
170			100											
		Very pyritic and very carbonaceous sections	100											
		Pyrite diss throughout with occ pyritic												
		nodules and stringers. Salt-and-pepper												
180		appearance: 200.5-201.5	100											
		203.0-210.0	100											
		219.0-221.0	100											
190		225.0-230.5												
		235.0-250.0	100											
200			100											
			100											
			100											
210														
			100											
220			100											
			100											
230			100											
			100											
240			100											
			100											
250			100											
252														

DIAMOND DRILL LOG

TAIGA CONSULTANTS LTD.
SUITE 100, 1300 - 8TH STREET S.W.
CALGARY, ALBERTA T2R 1B2

DIAMOND DRILL HOLE No. 80-1

CLIENT: Kenton Natural Resources Corporation

PROJECT: Rusty Springs, Yukon Territory

LOCATION: L 0+00, 0+50W
BEARING:
INCLINATION AT COLLAR: -90°
DIP TEST:

LENGTH: 227 feet
ELEVATION: 2050 feet
CORE SIZE: NQ
LOG SCALE: 1:150

LOGGED BY: J.Bankowski
ASSAYED BY:
DATE COLLARED: May 18/80
DATE COMPLETED: May 22/80

DEPTH	LITHOL		GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS										
					CORE SAMPLE						SLUDGE SAMPLE				
					Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %
		0	Pebbles of white massive qtz & silicic dolomite and deeply weathered dolomite, iron stained along fracs	9											
10				100											
				100											
20		27	Deeply weathered dolomite with malachite stain												
		29	Dk.brown and grey sand	60											
		34	Deeply weathered dolomite with white qtz veins	88	25-29		0.4	0.21	0.69						
30	U	36'6"	White massive qtz.	30	29-34		2.99	0.19	0.57						
	N	38	Lt.brown sand	86	34-37		0.82	0.24	0.78						
	I		38'4"-38'7" massive tetrahedrite		37-38		44.73	2.80	17.13						
	T	40	Deeply weathered dolomite with minor Cu stain	82	38-43		55.08	2.63	24.67						
	#			100	43-48		0.77	0.99	4.4						
50	6	50'6"	Lt.brown to lt.grey sand and deeply weathered dolomite.	70	48-50'4"		4.21	4.31	4.66						
				85											
60		60'3"	Deeply weathered dolomite with minor Cu stain on fracs	83											
		64'6"	Deeply weathered finely xalline dol, numerous qtz stringers present	100	60'3"-64'6"		2.29	2.5	1.94						
70				93											
		77	Med.xalline, lt.grey, vuggy dolomite, euhedral calcite and dolomite xals lining vugs	100											
80				100											
				100											
90				100											
	U	95	Finely xalline, fractured, lt.grey dolomite, carbonaceous material along fractures	100											
	N														
	I			100											
100	T	106	Med.xalline, grey, vuggy dolomite												
				100											
	#	117	Highly fractured dolomite with black carb material and diss Py along fracs	100											
120	2	120'6"	Med.xalline, grey, vuggy dolomite												
				100											
				100											
130		133	Brecciated vuggy med.xalline dolomite, dark carbonaceous material along fracts	100											
				100											
140				100											
				100											
				100											

DIAMOND DRILL HOLE No. 80-1

SHEET 2 OF 2

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS										
				CORE SAMPLE						SLUDGE SAMPLE				
				Sam. Int	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %
		147 Finely xalline, lt.grey dolomite, fracs lined with dk.carb material and diss Py, slight development of flow banding	100											
150			100											
		152 Med.grey, med.xalline vuggy dolomite. dk.argillaceous-carbonaceous material and diss Py at 183'9" and 187'	100											
160														
170														
180		187 Slightly brecciated, vuggy dolomite, carbon matter filling fractures	100											
190			100											
		197 Med.xalline vuggy dolomite	100											
		207' slight development of flow banding	100											
200			100											
			100											
210		212 Highly brecciated, med.grey dolomite, cemented with white dolomite	100											
			100											
220														
227														

DIAMOND DRILL LOG

TAIGA CONSULTANTS LTD.
SUITE 100, 1300 - 8TH STREET S.W.
CALGARY, ALBERTA T2R 1B2

DIAMOND DRILL HOLE No. 80-2

CLIENT: Kenton Natural Resources Corporation

PROJECT: Rusty Springs, Yukon Territory

LOCATION: L 1+00W, 1+00S
BEARING:
INCLINATION AT COLLAR: -90°
DIP TEST:

LENGTH: 87 feet
ELEVATION: 2038 feet
CORE SIZE: HQ to 62'; NQ to end
LOG SCALE: 1:150

LOGGED BY: J.Davis & J.Bankowski
ASSAYED BY:
DATE COLLARED: May 24/80
DATE COMPLETED: May 25/80

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS – CORE SAMPLE: Sam.Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	SLUDGE SAMPLE: Sam.Int.	Ag oz/T	Cu %	Pb %	Zn %
0		0-12 Regolith, composed of lt-med grey dolostone, silicified, sublithographic, minor vein qtz	4											
10			87	12-18*		19.7	143	314	747					
12		12-59 Regolith, decomposed dolostone, brecciated, natroalunite noted at 53' filling breccia, minor mudstone seams, dk.grey to black in colour.	80	12-26*	0.01	22.2	176	400	865					
20			63											
30	U N I T # 6	42-47 No recovery	34	18-37*	19.5	19.5	24	170	1037					
40				26-49*	0.04	16.8	31	170	1090					
50			0	37-54*		16.1	835	134	802					
			75											
			100	49-54*	0.03	44.2	956	364	738					
			100	54-59*		12	924	600	990					
60		59-67 Quartz, milky white with minor malachite, plumbjarosite & limonite. 62.0 change from HQ to NQ core.	19	54-59*	0.01	13.4	851	460	950					
70	U N I T # 2	67-75 Dolostone, lt-med.grey crystalline, brecciated with white dolomite breccia filling, minor manganese, limonite & malachite, minor white qtz chips.	52											
80		75-87 Dolostone, lt-med grey, brecciated, crystalline, minor carb mudstone seams, white dolomite breccia filling, minor malachite staining at 77 & 84.5	100											
87														

*Assay results in ppm

DIAMOND DRILL LOG

TAIGA CONSULTANTS LTD.
SUITE 100, 1300 - 8TH STREET S.W.
CALGARY, ALBERTA T2R 1B2

DIAMOND DRILL HOLE No. 80-3

CLIENT: Kenton Natural Resources Corporation

PROJECT: Rusty Springs, Yukon Territory

LOCATION: L 1+20S, 1+05W
BEARING:
INCLINATION AT COLLAR: -90°
DIP TEST:

LENGTH: 97 feet
ELEVATION: 2038 feet
CORE SIZE: HQ
LOG SCALE: 1:150

LOGGED BY: J.Davis & J.Bankowski
ASSAYED BY:
DATE COLLARED: May 25/80
DATE COMPLETED: May 26/80

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.
0		0-17 Regolith composed of weathered frags of lt-med grey, sublithographic, carb dolostone, brecc., white dolomite frac fillings, Cu oxide stain 15.0-16.0 natroalunite	42
10			
		17 Regolith, decomposed dolostone, with natro-alunite, lt.grey. Cu oxide traces.	73
20		22 Regolith, lt-dk grey dolostone frags, carb-rich intervals. Cu oxide traces	95
			92
30	UNIT		100
40	# 6		
50			
60			
		72.0-72.2 Quartz regolith with malachite	93
		72.2-74.0 Regolith, lt-med grey decomposed dolostone, brecciated with tetrahedrite, mal & azur	
70		74.0-77.0 Quartz regolith, tetrahedrite, mal & azur; base of regolith.	57
			92
		77 Dolostone, lt-med grey, crystalline brecciated with white dolomite breccia filling, fetid, vuggy.	88
80	UNIT	83.0 malachite along fractures	9
		88.3 " " "	
	# 2	92.0 carbonaceous, argillaceous seam	100
90			
97			

ASSAY RESULTS

CORE SAMPLE Sam.Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	SLUDGE SAMPLE Sam.Int.	Ag oz/T	Cu %	Pb %	Zn %
0-22*		14	1000+	475	698					
22-37*		17.5	628	172	952					
22-37*	0.01	16.5	468	176	1045					
37-57*		9.0	30	88	971					
37-57*	0.03	5.4	45	78	990					
57-72*		19.3	345	362	912					
57-72*	0.01	20.6	400	502	950					
72-77		25.47	3.34	13.72	0.002‡					

*Assay results in ppm
‡ % Cd

DIAMOND DRILL LOG

TAIGA CONSULTANTS LTD.
SUITE 100, 1300 - 8TH STREET S.W.
CALGARY, ALBERTA T2R 1B2

DIAMOND DRILL HOLE No. 80-4

CLIENT: Kenton Natural Resources Corporation

PROJECT: Rusty Springs, Yukon Territory

LOCATION: L 1+50S, 1+55W
BEARING:
INCLINATION AT COLLAR: -90°
DIP TEST:

LENGTH: 132 feet
ELEVATION: 2018 feet
CORE SIZE: HQ
LOG SCALE: 1:150

LOGGED BY: J.Davis & J.Bankowski
ASSAYED BY:
DATE COLLARED: May 26/80
DATE COMPLETED: May 27/80

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS										
				CORE SAMPLE						SLUDGE SAMPLE				
				Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %
0		0 Regolith, composed of lt-dk grey, brecciated dolostone, completely decomposed	19	0-22*		19.9	60	104	1350					
		43.0 gypsum seam	100	0-22*	0.03	18.4	57	190	1350					
10		77-92 more argillaceous than above												
			70											
20			90	22-42*		21.8	130	70	1200					
			86											
30				22-42*	0.03	21.8	116	66	1120					
			55											
40			70											
	U		60	46-62*		8.4	462	1150	1175					
50	N		60											
	I			42-62*	0.01	8.8	400	825	1120					
	T		100											
60			100											
	#		85	62-82*		12.5	61	148	1120					
	6		100											
70				62-82*	0.03	17.2	46	100	1080					
			100											
80			100											
			90	82-102*		7.7	246	282	865					
90		92 Regolith, lt-grey to rust, decomposed dolostone, some gossanous parts.	20											
		198 small mud seam, small frags PbS	4	82-102*	0.03	7.3	283	218	770					
		113-115 secondary copper & tetrahedrite, plumbojarosite	53											
100		117 secondary copper	71	108'7"					‡					
			35	-112'6"		1.41	0.05	0.75	0.01					
			100	112'6"-115		8.97	0.90	9.94	0.02‡					
110			100											
			100	115'-119'4"		1.16	0.25	0.30	0.03‡					
120			48											
	UNIT	124 Dolostone, lt-med grey, crystalline, brecciated with white dolomite cement, minor carbonaceous mudstone infilling.	100											
	#2		83											
132														

* Assay results in ppm
‡ %Cd

DIAMOND DRILL LOG

TAIGA CONSULTANTS LTD.
SUITE 100, 1300 - 8TH STREET S.W.
CALGARY, ALBERTA T2R 1B2

DIAMOND DRILL HOLE No. 80-5

CLIENT: Kenton Natural Resources Corporation

PROJECT: Rusty Springs, Yukon Territory

LOCATION: L 2+60S, 1+85W
BEARING:
INCLINATION AT COLLAR: -90°
DIP TEST:

LENGTH: 209 feet
ELEVATION: 2015 feet
CORE SIZE: HQ & NQ
LOG SCALE: 1:150

LOGGED BY: J.Davis & J.Bankowski
ASSAYED BY:
DATE COLLARED: May 28/80
DATE COMPLETED: May 31/80

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS										
				CORE SAMPLE						SLUDGE SAMPLE				
				Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %
		0-17 Drill casing, no core												
10			0											
		17 Regolith, composed of alunite, with a few frags of decomposed dolostone												
20		23 Regolith, decomposed dolostone, consisting of lt.grey sand	53											
		25 Regolith, composed of lt-med grey dolomitic sand with minor iron staining, highly decomposed 50.6-51.6 vein of argillaceous material												
30			100											
			100											
40			100											
	U		100											
50	N		100											
	I		100											
60	T		100											
	#		100											
	6	68 Regolith, partly decomposed, med-dk grey dolostone, brecciated with white dolomite breccia filling, sublithographic	100											
70			66											
80		84 Regolith, dolomitic sand derived from med-dk grey dolostone as above												
		87.0-87.5 zone of silic.dolostone pebbles												
		90.0-91.0 angular milky white quartz frags	39											
90		92 Regolith, partly decomposed dk.grey brecciated dolostone, with white dolomite breccia filling, vuggy and carbonaceous.	94											
		96 Dolostone, lt.grey brecciated, carbonaceous mudstone breccia filling.	94											
100		97 Regolith, partly decomposed, brecciated dolostone												
		98 Dolostone, lt.grey brecciated, white dolomite fracture filling, sublithographic.	26											
		100 Regolith, lt.brown, limonitic, decomposed dolostone.												
110		101 White quartz frags.	0											
		105 Regolith, composed of dk.grey mudstone, iron staining on bedding surfaces, bedding appears horizontal												
120		110-112 No Recovery	28											
		115 Regolith, composed of decomposed dolomitic sand limonitic with limonitic encrustations, vuggy in part, vugs lined with quartz	37											
			50	124-129	0.002	36.5	165	23.3	0.24					
		HQ core ends at 122.0', followed by NQ core						1.25 *	0.79 ‡					
130		123 Regolith, composed of limonitic & dolomitic sand, qtz frags, minor massive tetrahedrite frags	0											
		125 Regolith composed of limonitic & dolomitic sand,	50											
		129-133 No Recovery												
140			100											
			45											

DIAMOND DRILL HOLE No. 80-5 1

SHEET 2 OF 2

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS										
				CORE SAMPLE						SLUDGE SAMPLE				
				Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %
		142 Dolomite, lt-med grey, crystalline, brecciated with white dolomite filling, vuggy in part	45											
150			72											
		147 Regolith, composed of dolomitic, limonitic sand derived from crystalline dolostone.	72											
	U	150 Dolomite, lt-dk grey crystalline dolomite, argillaceous in part with tr Py in more argillaceous sections, brecciated with white dolomite fracture fillings.	80											
160	N		80											
	I		100											
	T		90											
170	#													
	2													
180														
			100											
190														
200														
209														

DIAMOND DRILL LOG

TAIGA CONSULTANTS LTD.
SUITE 100, 1300 - 8TH STREET S.W.
CALGARY, ALBERTA T2R 1B2

DIAMOND DRILL HOLE No. 80-6

CLIENT: KENTON NATURAL RESOURCES CORPORATION

PROJECT: Rusty Springs, Yukon Territory

LOCATION: L 3+50S, 3+00W
BEARING:
INCLINATION AT COLLAR: -90°
DIP TEST:

LENGTH: 129 feet
ELEVATION: 1980 feet
CORE SIZE: HQ
LOG SCALE: 1:150

LOGGED BY: J.Davis & J.Bankowski
ASSAYED BY:
DATE COLLARED: May 31/80
DATE COMPLETED: June 1/80

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.
		0 Regolith, vuggy, limonite, goethite, silicified, small fragments of alunite	12
10		8 Regolith, composed of lt-med.grey decomposed dolostone. 12.0-12.2 minor milky quartz fragments 22.0-22.2 as above	33 15
20		23 Regolith, consisting of partly decomposed dolostone as above, slightly more limonitic	100 60
30		32-37 No Recovery	100
		37 Regolith, lt-med grey silicified dolostone, brecciated, white dolomite breccia filling, minor quartz fragments in intervals	0 71
40	U	39 Regolith, composed of partly decomposed dolostone, med-lt.grey, brecciated with white dolomite fracture filling, sublithographic, slightly gossanous.	
50	N I T	49.0-49.5 minor milky white quartz 51.0-51.5 as above	78
60	# 6	60 Regolith, composed of limonitic, dolomitic sand. lt.-med. grey	100
70			90 100
80		82 Regolith, composed of lt-med grey silicified dolostone, brecciated with white dolomite fracture filling.	40 14
90		87 Dolostone, weathered in part, med-dk grey, brecciated, sublithographic with white breccia filling, gossanous.	50 100
100		100 Regolith, composed of limonitic dolomitic sand and weathered dolostone, sublithographic, brecciated, with white dolomite breccia filling, base of regolith.	
110			100
120	UNIT #2	120 Dolostone, lt-med grey, brecciated with white dolomite breccia filling, sublithographic	40 100
129			

ASSAY RESULTS											
CORE SAMPLE						SLUDGE SAMPLE					
Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %	

DIAMOND DRILL LOG

TAIGA CONSULTANTS LTD.
SUITE 100, 1300 - 8TH STREET S.W.
CALGARY, ALBERTA T2R 1B2

DIAMOND DRILL HOLE No. 80-7

CLIENT: Kenton Natural Resources Corporation

PROJECT: Rusty Springs, Yukon Territory

LOCATION: L 3+50S, 3+00W
BEARING:
INCLINATION AT COLLAR: -60°
DIP TEST:

LENGTH: 367 feet
ELEVATION: 1980 feet
CORE SIZE: HQ to 72', NQ to end
LOG SCALE: 1:150

LOGGED BY: J.Davis & J.Bankowski
ASSAYED BY:
DATE COLLARED: June 2/80
DATE COMPLETED: June 5/80

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS — CORE SAMPLE: Sam.Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	SLUDGE SAMPLE: Sam.Int.	Ag oz/T	Cu %	Pb %	Zn %
		0 Regolith, composed of silicified dolostone and limonite crust	8											
10		12 Regolith, consisting of decomposed dolostone dk.grey												
		17-21 No Core Recovery	60											
20		21 Regolith, consisting of milky white qtz frags	0											
		22 Dolostone, med-lt grey, silicified, brecciated, sublithographic with deeply weathered limonite, dolomitic sand	100 67											
		38.7-39.0 white milky quartz	27											
30			100											
			42											
		39-42 No Core Recovery												
40		42 Dolostone, med-lt grey, partly decomposed, silicified, brecciated, sublithographic, white dolomite fracture filling, vugs lined with euhedral qtz, thin intervals of limonite.	0											
	U		50											
	N		33											
50	I		19											
	T		8											
			69											
			38											
60		62 Regolith, consisting of limonite sand & frags of silicified dolostone	67											
		65 Dolostone, lt-med grey, sublithographic, brecc'd with white dolomite breccia filling	72											
			100											
	#		83											
70		71 Dolostone, partially decomposed, sublithographic, brecciated with white dolomite breccia filling, limonitic seams	94											
	6		94											
		73 Dolostone, partially weathered, xalline, brecc'd with white dolomite breccia filling, slightly vuggy with vugs lined with dolomite xals, more highly weathered in intervals	100											
80			75											
			75											
		85 Regolith, composed of decomposed dolostone into limonitic dolomitic sand	95											
90			83											
			67											
100														
		112 Dolostone, lt-med grey, xalline, brecc'd with white dolomite frac filling	100											
		113 Regolith, composed of decomposed dolostone												
		116 Dolostone, lt-med grey, xalline, brecc'd with white dolomite frac filling	100											
110			100											
		117 Regolith, consisting of decomposed dolostone and limonitic dolomitic sand.	80											
		Base of regolith.	80											
			53											
120														
130		131-136 No Core Recovery	0											
			100											
140														

DIAMOND DRILL HOLE No. 80-7

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS										
				CORE SAMPLE						SLUDGE SAMPLE				
				Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %
150		142 Dolostone, unweathered, lt-med grey, fine-med xalline, brecciated with white dolomite breccia filling, vuggy in part, slightly fetid, pyrite seam noted occasionally. 149.0 tetrahedrite as thin stringer 150.5 tetrahedrite in thin fracture 150.5, 151.0, 155.0 small tetrahedrite patches 161.0 argillaceous and pyrite stringer 210.0-211.0 small 1cm qtz vein subparallel to core axis 234.0 calcite veining 242.0-242.6 as above												
160														
170														
180														
190														
200			100											
210														
220														
230														
240														
250														
260		267 Dolostone, med-dk grey, intensely brecciated with white dolomite breccia filling, trace pyrite												
			100											
270		269 Dolostone, lt-med crey, xalline												
280	U N I T # 2		100											
290														
300														
310														
320														
330														

DIAMOND DRILL HOLE No. 80-7

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS										
				CORE SAMPLE						SLUDGE SAMPLE				
				Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %
340														
	U													
	N													
350	I													
	T													
	#													
360	2		100											
367														

DIAMOND DRILL LOG

TAIGA CONSULTANTS LTD.
SUITE 100, 1300 - 8TH STREET S.W.
CALGARY, ALBERTA T2R 1B2

DIAMOND DRILL HOLE No. 80-8

CLIENT: Kenton Natural Resources Corporation

PROJECT: Rusty Springs, Yukon Territory

LOCATION: L 2+00S, 3+00W
BEARING:
INCLINATION AT COLLAR: -90°
DIP TEST:

LENGTH: 197 feet
ELEVATION: 2018 feet
CORE SIZE: HQ
LOG SCALE: 1:150

LOGGED BY: J.Davis & J.Bankowski
ASSAYED BY:
DATE COLLARED: June 6/80
DATE COMPLETED: June 8/80

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS: CORE SAMPLE Sam.Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	SLUDGE SAMPLE Sam.Int.	Ag oz/T	Cu %	Pb %	Zn %
		0 Regolith, consisting of frags of silicified, brecciated dolostone and quartz	17											
10		8 Quartz, milky white, massive & brecciated, limonite staining in part	89											
			83											
			27											
20		22 Regolith, consisting of frags of silicified, brecciated dolostone & quartz	33											
		25 Regolith, composed of med-lt grey decomposed dolostone	70											
		27-32 No Core Recovery	70											
30		32 Dolostone, lt-med grey, vuggy, silicified, brecciated with qtz veining	0											
		35 Regolith, consisting of lt-dk grey, decomposed dolostone, minor qtz frags @ 70', plumbojarosite staining & oxidized tetrahedrite for 7 cm.	25											
40			70											
			8											
	U		12											
50	N		90											
	I													
60	T													
	#		100											
70	6													
80														
90			80											
			100											
100		102 Regolith, lt-grey to buff, derived from disintegration of dolomite, tr of milky white qtz and limonite in intervals	23											
			33											
		112-117 No Core Recovery	20											
110														
		117 Regolith, med-lt brown, consists of decomposed dolomite & minor qtz frags @ 121'-125.5; white vuggy quartz; base of regolith	0											
			75											
120		122 Dolostone, weathered lt grey to rust, brecciated, crystalline, silicified, pyritic	83											
		125.5 Quartz, milky white, brecciated, iron staining	100											
	U		100											
	N	127.5 Dolostone, lt-med grey, partially weathered, silicified, brecciated, qtz veined, limonitic, pyritic @ 132.2-133.0; tetrahedrite, partly oxidized, some qtz & plumbojarosite	98	132'2"-132'10"	<0.007	24.3	2.99	16.5	0.31					
130	I								1.30 *	0.58 ‡				
	T	133 Dolostone, lt-med grey, brecciated with white dolomite breccia filling, minor carbonaceous and pyritic mudstone	100											
	#													
140	3		88											

DIAMOND DRILL LOG

TAIGA CONSULTANTS LTD.
SUITE 100, 1300 - 8TH STREET S.W.
CALGARY, ALBERTA T2R 1B2

DIAMOND DRILL HOLE No. 80-9

CLIENT: Kenton Natural Resources Corporation

PROJECT: Rusty Springs, Yukon Territory

LOCATION: L 5+00S, 3+00W
BEARING:
INCLINATION AT COLLAR: -90°
DIP TEST:

LENGTH: 125 feet
ELEVATION: 1980 feet
CORE SIZE: HQ
LOG SCALE: 1:150

LOGGED BY: J.Davis & J.Bankowski
ASSAYED BY:
DATE COLLARED: June 8/80
DATE COMPLETED: June 9/80

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS										
				CORE SAMPLE						SLUDGE SAMPLE				
				Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %
		0 Regolith, composed of weathered med-dk grey dolomite, brecciated with white dolomite breccia filling, sublithographic, silicified in upper 2'	37											
10		11 Regolith, composed of brecciated milky qtz with frags of silicified dolostone as above	74											
		15.5 Regolith, composed of dehydrated alunite												
		17 Regolith, brecciated, milky white qtz with silicified dolostone	77											
20		18 Regolith, med-dk grey, brecciated dolostone, sublithographic	96											
			100											
		19 Regolith, white brecciated qtz with frags of silicified dolostone	83											
			84											
		20 Regolith, composed of lt-dk grey, limonitic, decomposed dolostone, brecciated with white dolomite and qtz breccia filling												
30			100											
40		44 Regolith, composed of white milky qtz, massive, limonite stained, vuggy												
			100											
50	U	52 Regolith, consisting of lt-dk grey decomposed dolostone, brecciated, minor qtz frags & limonite	84											
	N		90											
60	I		28											
	T	66 Regolith, composed of limonitic gossan	97											
		69 Regolith, consisting of partly to completely decomposed dolostone, lt-med grey, brecciated with white dolomite frac filling	58											
70	#		20											
	6	71 Dolostone, partially weathered, lt-med grey, brecciated, sublithographic, white dolomite breccia filling, limonitic	8											
80			67											
			70											
90			100											
			80											
100			90											
			55											
110			73											
			47											
		117 No core recovery												
120		122 Regolith, limonitic dolomite sand	0											
			50											
125														

DIAMOND DRILL LOG

TAIGA CONSULTANTS LTD.
SUITE 100, 1300 - 8TH STREET S.W.
CALGARY, ALBERTA T2R 1B2

DIAMOND DRILL HOLE No. 80-10

CLIENT: Kenton Natural Resources Corporation

PROJECT: Rusty Springs, Yukon Territory

LOCATION: L 5+00S, 1+50W
BEARING:
INCLINATION AT COLLAR: -90°
DIP TEST:

LENGTH: 150 feet
ELEVATION: 2022 feet
CORE SIZE: 0-64 HQ, 64-end NQ
LOG SCALE: 1:150

LOGGED BY: J.Davis & D.Hoy
ASSAYED BY:
DATE COLLARED: June 10/80
DATE COMPLETED: June 11/80

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS: CORE SAMPLE Sam.Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	SLUDGE SAMPLE Sam.Int.	Ag oz/T	Cu %	Pb %	Zn %
		0-12 Drill casing, no core	0											
10		10 Regolith, milky qtz frags, vuggy, iron stained, med.-dk.grey dolostone	17											
		12 Regolith, moderately to intensely decomposed dolostone, lt-med.grey, limonitic, brecciated with white dolomite frac fillings	100											
20		17'-19' intensely weathered, limonitic												
	U	22 Regolith, intensely weathered dolostone, white to med.grey, brecciated, slightly limonitic, gypsiferous.	100											
	N	29 Regolith, highly weathered limonitic dolostone, orange to rusty brown.	100											
30	I	32 Regolith, white to med.grey, gypsiferous, slightly limonitic	100											
	T		100											
		33 Regolith, highly weathered, limonitic, gypsiferous	100											
	#	36 Regolith, limonitic dolostone, orange to rusty brn												
40	6	38 Regolith, highly weathered, extremely limonitic dolostone, orange to rusty brown in colour.	60											
		52 Regolith, argillaceous dolostone, lt-med grey, milky qtz frags	100											
50		53 Regolith, limonitic, rusty to orange weathering	100											
		56' milky qtz frags; 57' base of regolith	100											
		57 Dolostone, med-dk grey, brecciated with white dolomite breccia filling, finely xalline to sub-lithographic, carbonaceous, argillaceous seams	67											
60			92											
	U		75											
70	N		100											
	I		92											
	T													
80			80											
	#		60											
	3													
			75											
90		94 Dolostone, white to med.grey, fine-med.xalline, limonitic frac fillings, brecciated with white dolomite frac filling	100											
			60											
100			100											
			67											
	U		100											
110	N		87											
	I													
	T													
120			100											
	#													
	2													
130														
140														

DIAMOND DRILL HOLE No. 80-10

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS										
				CORE SAMPLE						SLUDGE SAMPLE				
				Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %
			100											
150														

DIAMOND DRILL LOG

TAIGA CONSULTANTS LTD.
SUITE 100, 1300 - 8TH STREET S.W.
CALGARY, ALBERTA T2R 1B2

DIAMOND DRILL HOLE No. 80-11

CLIENT: Kenton Natural Resources Corporation

PROJECT: Rusty Springs, Yukon Territory

LOCATION: L 1+00S, 7+00W
BEARING:
INCLINATION AT COLLAR: -90°
DIP TEST:

LENGTH: 372 feet
ELEVATION: 1875 feet
CORE SIZE: HQ to 60', NQ to end
LOG SCALE: 1:150

LOGGED BY: J.Davis & D.Hoy
ASSAYED BY:
DATE COLLARED: June 12, 1980
DATE COMPLETED: June 14, 1980

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS: CORE SAMPLE Sam.Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	SLUDGE SAMPLE Sam.Int.	Ag oz/T	Cu %	Pb %	Zn %
		0 Regolith, lt-med grey, silicified dolostone and quartz fragments, slightly limonitic	13											
		6 Quartz, milky white massive, limonitic, secondary quartz in vugs.	25											
10		11' fine-grained silicified dolostone												
		12 Dolostone, med.grey, silicified minor qtz patches	~~50~~ 21											
		16-18 No Core Recovery	0											
20		18 Regolith, lt-med grey dolostone, mod-intensely weathered, slightly limonitic, small dolomite veinlets, silicified intervals	4											
	U		25											
	N		100											
30	I	32 Regolith, composed of intensely altered dolostone, dk.grey-black, carbonaceous-argillaceous in nature,	27											
	T	some limonitic staining	80											
		37 Regolith, completely decomposed, med-dk grey, brecciated with white dolomite breccia filling,												
40		occ qtz frags, limonitic in part, intense fract	50											
		45 Regolith, consisting of lt-med grey decomposed	100											
	#	dolostone, brecciated, dolomite breccia filling, mod-intense alteration, locally limonitic,	100											
50		argillaceous to sublithographic												
	6	52 Regolith, composed of lt-med grey decomposed dolo-	100											
		stone, brecciated with white dolomite breccia filling, limonite fracture fillings	85											
60														
			100											
		69 Regolith, composed of completely decomposed med-dk	100											
70		grey dolostone, brecciated, intense fracturing with carbonate fracture fillings, carbonaceous & argillaceous nature; base of regolithic unit	90											
			40											
80		80 Dolostone, argillaceous & carbonaceous, brecciated	100											
		with white dolomite breccia filling, sublithograph to finely xalline, pyritic intervals, intense	80											
		fracturing with carbonate fracture fillings.												
		146' black graphitic section												
90	U	167.7' as above	100											
	N	223' arsenopyrite & diss Py												
		208-210' quartz-rich massive milky white, secondary quartz in vugs.	100											
	I													
100	T		80											
			17											
110			60											
	#		100											
120	3		60											
			50											
130			100											
			80											
			100											
140			100											

DIAMOND DRILL HOLE No. 80-11

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS										
				CORE SAMPLE						SLUDGE SAMPLE				
				Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %
150			100											
			100											
160			90											
			20											
170			33											
			10											
	U													
180	N		20											
	I		100											
190	T		80											
		192-197 No Core Recovery	0											
200			8											
	#		15											
	3		6											
210			25											
			100											
			13											
220			58											
			9											
		224 Regolith, completely decomposed, butt to rust brown, dolostone, limonitic and friable	35											
230			25											
			100											
			100											
240			67											
			58											
		247 Dolostone, lt-med grey, fine-med xalline, lightly decomposed & lightly brecciated, mod-heavy fracturing, white to buff dolomite fracture fillings	43											
			33											
250			8											
			50											
			92											
260			42											
	U													
	N		100											
			29											
270	I	272 Dolostone, buff to lt.rusty, partly decomposed, finely xalline, locally limonitic	100											
	T	278' minor quartz veining	47											
			67											
280			33											
			90											
	#													
290	2		78											
			100											
		296 Dolostone, mod-heavily decomposed, buff to lt.rust finely xalline, silicified intervals, small qtz veinlet system locally, lt-mod brecciation, extremely vuggy.	50											
			61											
300														
		300-310 No Core Recovery	0											
310			79											
			20											
			33											
320														
		322-332 No Core Recovery	0											
330														
			30											

DIAMOND DRILL HOLE No. 80-11

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS										
				CORE SAMPLE						SLUDGE SAMPLE				
				Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %
			30											
340		337-342 No Core Recovery	0											
			59											
			20											
350		353 Dolostone, lt-med grey, finely xalline, silicified intervals, mod.fracturing, lightly limonitic	40											
			67											
			38											
360			15											
			100											
			100											
370			50											
372														

DIAMOND DRILL LOG

TAIGA CONSULTANTS LTD.
SUITE 100, 1300 - 8TH STREET S.W.
CALGARY, ALBERTA T2R 1B2

DIAMOND DRILL HOLE No. 80-12

CLIENT: Kenton Natural Resources Corporation

PROJECT: Rusty Springs, Yukon Territory

LOCATION: L 3+00S, 6+50W
BEARING:
INCLINATION AT COLLAR: -90°
DIP TEST:

LENGTH: 527 feet
ELEVATION: 1890 feet
CORE SIZE: HQ to 108; NQ to end
LOG SCALE: 1:150

LOGGED BY: D.Hoy & J.Davis
ASSAYED BY:
DATE COLLARED: June 15/80
DATE COMPLETED: June 21/80

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS										
				CORE SAMPLE						SLUDGE SAMPLE				
				Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %
		0 Regolith composed of lt-dk grey decomposed dolostone, silicified, sandy-gravelly matrix which contains milky white quartz fragments (~5% of interval), secondary quartz in vugs	5											
10			18											
20	U		68											
	N		100											
	I		56											
30	T	35 Regolith, composed of moderately to strongly weathered, dk.grey carbonaceous dolostone, argillaceous, slightly pyritic, milky white quartz fragments containing secondary quartz in vugs, locally limonitic	67											
			56											
40	#		67											
	6		20											
			100											
50		52-53 massive milky white quartz	100											
		53 Regolith, consists of moderately to strongly decomposed grey silicified dolostone, with carbonaceous-argillaceous intervals, moderately to heavily fractured, prominent quartz frags	71											
			50											
60			80											
			100											
70			14											
80		82-105' brecciation more prominent, vuggy patchy quartz, containing secondary quartz and subhedral to euhedral pyrite	50											
			60											
90			57											
			67											
			100											
100			100											
			60											
		107 Quartz vein, milky white, intensely fractured limonitic	28											
110														
		108-126 No Core Recovery	0											
120														
		126 Regolith, composed of intensely altered, orange to rusty brown dolostone, extremely vuggy, prominent goethite.	26											
130														
140														

DIAMOND DRILL HOLE No. 80-12

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS										
				CORE SAMPLE						SLUDGE SAMPLE				
				Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %
		147 Dolostone, lt-med grey, fine-med xalline, lt-mod fracturing with white dolomite frac fillings												
150														
160			64											
	U													
	N													
170	I													
	T	177 Dolostone, buff to lt.rusty brown, lightly to moderately limonitic, intense fracturing, brecc'd												
180														
	#		23											
	2													
190		189-194 No Core Recovery	0											
200			26											
		209 Dolostone, med-dk.grey, generally finely xalline, lt-mod weathering, mod.fracturing, with limonitic fracture coating												
210														
220	U		69											
	N													
	I													
230	T													
		235 Dolostone, med.grey, argillaceous, Py-rich sections @ 238-240' associated with milky white quartz												
240	#	241 Zone of poor core recovery, dk.grey, argillaceous-carbonaceous dolostone, and quartz pebbles which contain secondary qtz and limonite in vugs, minor diss Py associated with quartz	82											
	1													
250			29											
260		261 Dolostone, dk.grey carbonaceous-argillaceous, brecciated with white dolomite breccia filling, moderate to heavy fracturing, quartz-fragment-rich intervals.												
270			55											
280														
290														
300														
310		310-312 No Core Recovery	0											
		312 Intensely weathered, buff to orange, coarse dolomite sand, moderately to strongly limonitic												
320			48											
		322 Dolostone, lt-med grey, highly silicified, secondary quartz in vugs, limonite staining												
		332 Dolostone, lt-med grey, fine-med xalline, dolomite veinlet systems abundant, occ argillaceous seams	37											
330														

DIAMOND DRILL HOLE No. 80-12

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS										
				CORE SAMPLE						SLUDGE SAMPLE				
				Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %
340														
350														
360			98											
370														
		386 Dolostone, med-dk grey, silicified, more argillaceous than above												
380		388 Dolostone, lt-med grey, fine-med xalline, vuggy in part, abundant carbonate veinlets, small argillaceous interbeds												
			100											
390														
400														
410														
420														
430			100											
440														
450														
460														
470														
480														
490														
		508 Dolostone, med-dk grey, silicified, cherty, small intervals of finely xalline dolostone interbedded												
500														
510			100											
520														

DIAMOND DRILL HOLE No. 80-12

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS										
				CORE SAMPLE						SLUDGE SAMPLE				
				Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %
527		527 Black chert	~~100~~											

DIAMOND DRILL LOG

TAIGA CONSULTANTS LTD.
SUITE 100, 1300 - 8TH STREET S.W.
CALGARY, ALBERTA T2R 1B2

DIAMOND DRILL HOLE No. 80-13

CLIENT: Kenton Natural Resources Corporation

PROJECT: Rusty Springs, Yukon Territory

LOCATION: L 5+00S, 7+00W
BEARING:
INCLINATION AT COLLAR: -90°
DIP TEST:

LENGTH: 202 feet
ELEVATION: 1875 feet
CORE SIZE: HQ to 33'; NQ to end
LOG SCALE: 1:150

LOGGED BY: J.Davis & D.Hoy
ASSAYED BY:
DATE COLLARED: June 23/80
DATE COMPLETED: June 25/80

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.
		0-3 Drill casing, No Recovery	0
		3 Regolith, composed of med-dk grey silicified dolostone, slightly limonitic, quartz-fragment-rich intervals	38
10			46
			67
			100
			67
20		19-24 No Core Recovery	0
			43
30	U	33 Regolith, composed of intensely altered orange to rusty brown dolostone, vuggy with secondary qtz	100
	N	growth in vugs, goethite-rich intervals forming crusts, quartz-fragment-rich intervals	33
			50
40	I		100
		47 Regolith, consisting of mod.-intensely altered,	100
	T	dk.grey, argillaceous, carbonaceous dolostone,	
50		and significant milky quartz; quartz is vuggy and contains diss Py and tr of AsPy, also secondary	80
		qtz in vugs	
	#		
60			
	6		100
70			
			90
80		82 Quartz, massive milky white, vuggy with secondary	100
		qtz in vugs, slightly limonitic, prominent fract	
			28
90			
		95 Regolith, composed of mod-intensely altered dk.	75
		grey, carbonaceous, argillaceous dolostone,	
		prominent qtz fragments, light silicification	35
100			
			42
			100
110			70
			90
			50
120		122-127 No Core Recovery	0
		127 Dolostone, med-dk grey, carbonaceous, somewhat silicified, brecciated with qtz and white dolomite	22
130		breccia filling	
			90
140			20

ASSAY RESULTS											
CORE SAMPLE						SLUDGE SAMPLE					
Sam.Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam.Int.	Ag oz/T	Cu %	Pb %	Zn %

DIAMOND DRILL HOLE No. 80-13

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS										
				CORE SAMPLE						SLUDGE SAMPLE				
				Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %
150		146 Regolith, composed of dk.grey to rusty brown, intensely altered dolostone, silicified, quartz fragments, carbonaceous & argillaceous, goethite-rich intervals	20											
			10											
160	U		65											
	N													
	I													
170	T		37											
	#													
180	6		64											
190			100											
			60											
202														

DIAMOND DRILL LOG

TAIGA CONSULTANTS LTD.
SUITE 100, 1300 - 8TH STREET S.W.
CALGARY, ALBERTA T2R 1B2

DIAMOND DRILL HOLE No. 80-14

CLIENT: Kenton Natural Resources Corporation

PROJECT: Rusty Springs, Yukon Territory

LOCATION: L 3+00N, 5+00W
BEARING: ____
INCLINATION AT COLLAR: -90°
DIP TEST: ____

LENGTH: 190 feet
ELEVATION: 1920 feet
CORE SIZE: HQ
LOG SCALE: 1:150

LOGGED BY: J.Davis & J.Bankowski
ASSAYED BY: ____
DATE COLLARED: June 26/80
DATE COMPLETED: June 27/80

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.
		0-4 Drill casing	0
		4 Dolostone, moderately to intensely altered, med-dk.grey, carbonaceous, siliceous, brecciated	38
10		17.0-17.4 gossan, possibly weathered sulfide	75
			30
20			70
	U		93
30			100
	N		80
40	I		73
		46 Regolith, decomposed, leached dolostone, weakly ferruginous with minor quartz	100
	T	48 Regolith, decomposed grey dolostone	100
		49 Regolith, decomposed, hematized dolostone	100
50		50 Regolith, composed of heavily limonitic dolostone decomposed and vuggy, siliceous	100
	#	52 Regolith, comosed of frags of decomposed dolostone med.grey, somewhat silicified, limonitic in part	100
		57 Regolith, composed of limonitic mud, frags of qtz and intensetly weathered dolostone	
60	6	77-78' abundant quartz	
			53
70			
80		83 Regolith, composed of med-lt grey decomposed dolostone, brecciated with white dolomite breccia filling	53
			53
90			68
			70
			52
100		107 Regolith composed of limonitic sandy mud, and quartz frags, occ euhedral	
			75
110			50
		116 Regolith consisting of milky white massive qtz frags	50
		117 Regolith composed of limonitic sandy mud, and quartz fragments	60
120		121 Regolith consisting essentially of limonitic mud	
			10
		127-137 No Core Recovery	
130			0
			10
140			
		142-147 No Core Recovery	0

ASSAY RESULTS											
CORE SAMPLE						SLUDGE SAMPLE					
Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %	

DIAMOND DRILL HOLE No. 80-14

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS										
				CORE SAMPLE						SLUDGE SAMPLE				
				Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %
		147 Regolith consists essentially of limonitic crust and geothite fragments	0											
150			1											
	U	151-157 No Core Recovery	0											
			1											
160	N													
	I	160-167 No Core Recovery	0											
	T	167 Regolith composed of quartz fragments and highly decomposed dolostone	27											
170			7											
	#	177-182 No Core Recovery												
	6	182 Regolith composed of white massive quartz, slight iron staining	0	175-190		27.2	0.69	5.30	0.07					
180			5											
		187 Regolith, composed of lt.grey xalline dolostone, brecciated with white dolomite breccia filling, and milky white quartz frags	59											
190														

DIAMOND DRILL LOG

TAIGA CONSULTANTS LTD.
SUITE 100, 1300 - 8TH STREET S.W.
CALGARY, ALBERTA T2R 1B2

DIAMOND DRILL HOLE No. 80-15

CLIENT: Kenton Natural Resources Corporation

PROJECT: Rusty Springs, Yukon Territory

LOCATION: L 6+00N, 5+00W
BEARING:
INCLINATION AT COLLAR: -90°
DIP TEST:

LENGTH: 87 feet
ELEVATION: 1925 feet
CORE SIZE: HQ to 40'; NQ to end
LOG SCALE: 1:150

LOGGED BY: J.Davis & J.Bankowski
ASSAYED BY:
DATE COLLARED: June 27/80
DATE COMPLETED: June 28/80

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS: CORE SAMPLE Sam.Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	SLUDGE SAMPLE Sam.Int.	Ag oz/T	Cu %	Pb %	Zn %
	UNIT # 6	0 Regolith, composed of limonitic mud & sand & small frags of euhedral qtz and goethite	33											
10			100											
		17 Regolith, composed of frags of lt-med grey silicif brecc'd dolostone, white dolomite breccia filling & minor qtz frags. Base of Regolith	50											
20	UNIT # 2	22 Dolostone, lt-med grey, xalline, brecc'd, white dolomite breccia filling, vuggy with vugs lined with dolomite xals with minor grey clay seams	100											
30			100											
			100											
40			100											
		40 Dolostone as above, but disaggregated	60											
		41 Dolostone, med-lt grey, xalline, brecc'd, white dolomite breccia filling	20											
		47.5-48' Dolostone as above, but decomposed into dolomitic sand												
50		47 Dolostone, med-lt grey xalline, brecc'd, white dolomite frac fillings	25											
		53 Dolostone, as above but decomposed into dolomitic sand with seams of more competant rock interspersed	93											
60		57 Dolostone, med-lt grey, brecc'd, white dolomite breccia filling, possible worm burrows filled with white dolomite	66											
		62 Dolostone, med-lt grey, xalline, brecc'd, white dolomite breccia filling, fossiliferous (ostracods?)	100											
70			95											
80			100											
			93											
87														

DIAMOND DRILL LOG

TAIGA CONSULTANTS LTD.
SUITE 100, 1300 - 8TH STREET S.W.
CALGARY, ALBERTA T2R 1B2

DIAMOND DRILL HOLE No. 80-16

CLIENT: Kenton Natural Resources Corporation

PROJECT: Rusty Springs, Yukon Territory

LOCATION: L 8+00N, 5+00W
BEARING:
INCLINATION AT COLLAR: -90°
DIP TEST:

LENGTH: 132 feet
ELEVATION: ~1925 feet
CORE SIZE: HQ
LOG SCALE: 1:150

LOGGED BY: J.Davis & J.Bankowski
ASSAYED BY:
DATE COLLARED: June 28/80
DATE COMPLETED: June 29/80

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.
0		0 Regolith, composed of limonitic mud & sand with frags of dolostone, lt-med grey, silicified & brecciated, decomposed into dolomitic sand	14
10			
20	U N I T # 6	22 Regolith, composed of limonitic mud & sand with abundant euhedral quartz 41.5-42.5' White milky quartz 42.5-42.8' Interval of lt.grey dolomitic sand 42.8-44.0' Interval of limonitic mud 44.0-44.4' Vuggy milky white quartz, filled with secondary euhedral quartz	61 60 57 100
40		44 Regolith, composed of lt.grey dolomitic sand, with horizons of competant dolostone, brecciated with white dolomite breccia filling, vugs lined with secondary dolomite	80 79 79 58
50			100
60			100
60	U N I T # 5	61 Dolostone, lt-med grey, heavily brecc'd, white dolomite breccia filling, finely xalline to sublith., weathered intervals composed of limonitic dolomitic sand	100 100
70		67 Regolith, composed of limonitic sand and mud 69 Dolostone, as 61.0-67.0'	100
		77 Regolith, composed of limonitic, dolomitic sand	
80		80 Dolostone, lt-med grey, brecc'd, white dolomite breccia filling, intensely weathered	100 100 80
90	U N I T # 2	92 Regolith, composed of limonitic and dolomitic mud, interbedded with less decomposed dolomite @ 97-98'	100
100			100
110	U N I T # 1	105 Dolostone, med-dk grey, carb, brecc'd, white dolomite breccia filling, worm burrows @ 118', possible microninoids, finely xalline to sublithographic	100 80 90 60
120			
130			77
132			

ASSAY RESULTS											
CORE SAMPLE						SLUDGE SAMPLE					
Sam.Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam.Int.	Ag oz/T	Cu %	Pb %	Zn %

DIAMOND DRILL LOG

TAIGA CONSULTANTS LTD.
SUITE 100, 1300 - 8TH STREET S.W.
CALGARY, ALBERTA T2R 1B2

DIAMOND DRILL HOLE No. 80-17

CLIENT: Kenton Natural Resources Corporation

PROJECT: Rusty Springs, Yukon Territory

LOCATION: L 8+70N, 2+60E
BEARING: 045°
INCLINATION AT COLLAR: -60°
DIP TEST:

LENGTH: 277 feet
ELEVATION: 1990 feet
CORE SIZE: HQ to 65'; NQ to end
LOG SCALE: 1:150

LOGGED BY: J.Davis & J.Bankowski
ASSAYED BY:
DATE COLLARED: June 30/80
DATE COMPLETED: July 2/80

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS — CORE SAMPLE: Sam.Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	SLUDGE SAMPLE: Sam.Int.	Ag oz/T	Cu %	Pb %	Zn %
		0-11 No Core Recovery	0											
10		11 Qtz breccia, with stringers of decomposed dolostone	17											
		12 Dolostone, sandy, leached & decomposed.	14											
		13-13.5' vuggy massive quartz	10											
		13.5 Regolith, composed of goethite and dolomitic sand, clay seams, prominent quartz fragments	100											
20			20											
	U		72											
	N		59											
30		30 Quartz, white, massive, vuggy & fractured with secondary qtz xals lining vugs	45											
	I	32 Regolith, as 13.5-30'	85											
	T	38 Quartz, white, massive & vuggy, brecciated, qtz boxwork developed, regolith & goethite frags prominent within breccia	40											
40			100											
	#		53											
		48 Regolith, composed of highly decomposed dolostone, brecciated, vuggy, silicified sections, carb nature	21											
	6		100											
50		82-85' goethite-rich interval as crust	33											
		104-104.2' malachite seam	33											
			0											
60			10											
			12											
			33											
70			23											
		72-77 No Core Recovery	28											
			50											
80			10											
			10											
			37											
			100											
90			100											
			100											
			100											
100			100											
		107 Quartz vein, milky white, brecciated severely												
110		112 Regolith, composed of dk.grey & highly decomposed dolostone, silicified, brecc'd, carb.												
	U	117 Dolostone, lt-med grey, xalline, brecc'd, white dolomite breccia filling & illite, occ styolites noted, some minor Py as breccia filling with calcareous & argil material, vuggy												
120	N													
	I													
	T													
130	#													
	2													
140														

DIAMOND DRILL HOLE No. 80-17

SHEET 2 OF 2

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS										
				CORE SAMPLE						SLUDGE SAMPLE				
				Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %
150		143 Dolostone, med-dk grey, sublitho, vuggy with secondary qtz xals lining vugs, some minor Py, argillaceous seams												
		172.5-173' White dolostone with minor intergrown calcite & euhedral qtz xals												
160			100											
	U													
170	N	173 Dolostone, med-dk grey, argil, brecc'd with white dolomite frac filling, Py, secondary qtz intergrowths in vuggy sections												
	I													
180	T													
			100											
190		190' Well-formed quartz crystals												
	#	193' as above												
	1													
200		202-207' Argi. seams & diss Py												
210														
		217 Dolostone, lt.grey, fractured, mottled appearance, narrow seams of argil material & diss Py												
220			100											
227														

DIAMOND DRILL LOG

TAIGA CONSULTANTS LTD.
SUITE 100, 1300 - 8TH STREET S.W.
CALGARY, ALBERTA T2R 1B2

DIAMOND DRILL HOLE No. 80-18

CLIENT: Kenton Natural Resources Corporation

PROJECT: Rusty Springs, Yukon Territory

LOCATION: L 12+60N, 3+30W
BEARING:
INCLINATION AT COLLAR: -60°
DIP TEST:

LENGTH: 225 feet
ELEVATION: 1930 feet
CORE SIZE: HQ to 49'; NQ to end
LOG SCALE: 1:150

LOGGED BY: J.Davis & J.Bankowski
ASSAYED BY:
DATE COLLARED: July 2/80
DATE COMPLETED: July 4/80

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.
		0 Regolith, consists of decomposed, med.grey silicic dolostone, highly fragmented and Fe stained qtz pebbles	10
10	U	10 Regolith, composed of mod.decomposed, med.brown to dk.grey dolostone, argil., brecc'd, white dolomite breccia filling	20
	N	13 Regolith, composed of massive brecciate white qtz, with frags of lt-med grey silicified dolostone	
20	I		30
	T		
30		32 Regolith, composed of lt-med grey decomposed dolostone, argillaceous, brecciated, vuggy, limonite coating fractures	
	#		50
	6		
40		42 Siltstone, med-dk grey, argil., silicified	
		44 Regolith, composed of lt-med grey, decomposed dolostone, argil., vuggy, weakly brecc'd, yellow oxide evident on fracs, bedding angle ~023° to core axis	85
50			47
60		62 Regolith, composed of milky white qtz frags and lt.grey decomposed dolostone pebbles	
		67 Regolith, composed of dk.grey brecc'd decomposed dolostone, argil.to finely xalline, white dolomite present as breccia filling, qtz frags present	10
70			50
		78 Regolith, composed of med-dk grey decomposed dolostone, argil & carb, vuggy towards bottom of horizon also white qtz frags with slight Fe staining	
80			
			10
90			
		95 Dolostone, lt-med grey, finely xalline, brecc'd with white dolomite breccia filling, vuggy, argil seams prominent	
100	U	97-112' Diss Py associated with argil seams	
	N		
110	I		
	T		
120			82
	#		
	2		
130			
140			

ASSAY RESULTS											
CORE SAMPLE						SLUDGE SAMPLE					
Sam.Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam.Int.	Ag oz/T	Cu %	Pb %	Zn %	

DIAMOND DRILL HOLE No. 80-18

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS											
				CORE SAMPLE						SLUDGE SAMPLE					
				Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %	
150															
160	U														
170	N														
	I		82												
180	T														
	#														
190	2														
200															
210															
220															
225															

DIAMOND DRILL LOG

TAIGA CONSULTANTS LTD.
SUITE 100, 1300 - 8TH STREET S.W.
CALGARY, ALBERTA T2R 1B2

DIAMOND DRILL HOLE No. 80-19

CLIENT: Kenton Natural Resources Corporation

PROJECT: Rusty Springs, Yukon Territory

LOCATION: L 10+10N, 1+25W
BEARING:
INCLINATION AT COLLAR: -90°
DIP TEST:

LENGTH: 137 feet
ELEVATION: ~2015 feet
CORE SIZE: HQ to 43'; NQ to end
LOG SCALE: 1:150

LOGGED BY: J.Davis & J.Bankowski
ASSAYED BY:
DATE COLLARED: July 13/80
DATE COMPLETED: July 15/80

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS										
				CORE SAMPLE						SLUDGE SAMPLE				
				Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %
		0 Regolith, composed of frags of white milky qtz, brecciated & vuggy, sandy matrix, limonitic	13											
10		7 Regolith, composed of frags of white milky qtz and decomposed grey silicified dolostone, sandy matrix, limonitic	33											
		13 Regolith, consists of grey silicified decomposed dolostone & white milky white qtz, highly fragmented, sandy matrix, limonitic												
20		14-21' Qtz milky white frags & secondary qtz in vugs												
		21-23' Qtz pebbles, limonite staining												
	U													
	N													
30	I													
	T													
40														
			55											
	#													
50	6													
60														
70														
80														
90														
	unit #3	92 Dolostone, heavily brecc'd, med-dk grey, argillaceous, sublithographic	40											
			40											
		95 Dolostone, lt-med grey, xalline, weakly brecc'd, vuggy, occ arg seams, tr of Py, locally silicified	81											
100	U		100											
	N		93											
	I													
110		109-119' vuggy interval												
	T													
120	#													
	2		100											
130		130-131' calcite banding												
137														

DIAMOND DRILL LOG

TAIGA CONSULTANTS LTD.
SUITE 100, 1300 - 8TH STREET S.W.
CALGARY, ALBERTA T2R 1B2

DIAMOND DRILL HOLE No. 80-20

CLIENT: Kenton Natural Resources Corporation

PROJECT: Rusty Springs, Yukon Territory

LOCATION: L 8+70N, 0+75W
BEARING: ____
INCLINATION AT COLLAR: -90°
DIP TEST: ____

LENGTH: 120 feet
ELEVATION: ~2020 feet
CORE SIZE: ____
LOG SCALE: ____

LOGGED BY: J.Davis & J.Bankowski
ASSAYED BY: ____
DATE COLLARED: July 15/80
DATE COMPLETED: July 16/80

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS — CORE SAMPLE: Sam. Int. / Au oz/T / Ag oz/T / Cu % / Pb % / Zn %	ASSAY RESULTS — SLUDGE SAMPLE: Sam. Int. / Ag oz/T / Cu % / Pb % / Zn %
0		0 Quartz, milky white, vuggy, minor iron staining, highly fragmented			
10	U N I T # 6		9		
			100		
20			81		
			~~100~~		
		15.5 Regolith, consisting of dk.grey, silicified, decomposed dolostone, argillaceous, vuggy, commonly iron stained, minor milky qtz frags	69		
30			31		
		34 Regolith, composed of highly decomposed tan to rust brown dolostone, highly fragmented with a sandy matrix, limonitic, some quartz fragments			
40					
50			100		
60			40		
			17		
70			~~17~~		
	U N I T # 2	70 Dolostone, lt-med grey, xalline, brecciated, white dolomite breccia filling, vuggy with vugginess becoming more prominent towards bottom of unit.	100		
80			65		
90					
100			100		
110		112-112.6' dolostone, dk.grey (ash?), laminated with possible feldspar clasts			
120					

DIAMOND DRILL LOG

TAIGA CONSULTANTS LTD.
SUITE 100, 1300 - 8TH STREET S.W.
CALGARY, ALBERTA T2R 1B2

DIAMOND DRILL HOLE No. 80-21

CLIENT: Kenton Natural Resources Corporation

PROJECT: Rusty Springs, Yukon Territory

LOCATION: L 8+70N, 0+75W
BEARING: 225°
INCLINATION AT COLLAR: -60°
DIP TEST:

LENGTH: 201 feet
ELEVATION: 2020 feet
CORE SIZE: HQ to 21'; NQ to end
LOG SCALE: 1:150

LOGGED BY: J.Davis & J.Bankowski
ASSAYED BY:
DATE COLLARED: July 16/80
DATE COMPLETED: July 18/80

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.
0		0 Regolith, composed of med-dk grey decomposed dolostone, highly fragmented, prominent iron staining, siliceous, brecciated with secondary drusy quartz as breccia filling, milky quartz fragments constitute ~10% of interval	
10	U		
	N		
20	I		
	T		
30	#		40
	6		
40			
		47 Quartz pebbles, milky white, massive	
50		53 Quartz pebbles & med.grey siliceous dolostone	15
			21
60			60
		65 Dolostone, lt-med grey, largely xalline with intercalated carb-arg seams, brecciated, white dolomite breccia filling, vuggy, minor diss Py associated with arg horizons	90
70	U		
	N		100
	I		
80	T		83
		83-83.4' sheared, carb mudstone horizon	
90	#		
	2		
		99-101' intensely brecciated xalline dolostone	100
100			
110			
			95
120			
130			100
140		144-144.2' arg seam, containing minor diss Py	

ASSAY RESULTS											
CORE SAMPLE							SLUDGE SAMPLE				
Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %		Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %

DIAMOND DRILL HOLE No. 80-21

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS										
				CORE SAMPLE						SLUDGE SAMPLE				
				Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %
		147-147.5' as 144-144.2'												
150	U													
	N													
160	I													
	T													
170		171' clear euhedral qtz xals lining fractures	100											
	#													
	2													
180														
		180-201' arg seams abundant throughout interval												
190														
201														

DIAMOND DRILL LOG

TAIGA CONSULTANTS LTD.
SUITE 100, 1300 - 8TH STREET S.W.
CALGARY, ALBERTA T2R 1B2

DIAMOND DRILL HOLE No. 80-22

CLIENT: Kenton Natural Resources Corporation

PROJECT: Rusty Springs, Yukon Territory

LOCATION: L 1+00S, 1+00E
BEARING:
INCLINATION AT COLLAR: -90°
DIP TEST:

LENGTH: 126 feet
ELEVATION: 2100 feet
CORE SIZE: HQ
LOG SCALE: 1:150

LOGGED BY: J.Davis & J.Bankowski
ASSAYED BY:
DATE COLLARED: July 18/80
DATE COMPLETED: July 20/80

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS										
				CORE SAMPLE						SLUDGE SAMPLE				
				Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %
		0-10 No Core Recovery	0											
10	U	10 Regolith, composed of milky white quartz, vuggy w/ vugs lined with euhedral qtz xals, slightly limonitic	15											
	N	12 Regolith, consisting of orange to rusty brown, limonitic dolostone, intensely altered, brecciated with white dolomite breccia filling, minor quartz fragments	40											
20	I		60											
	T	17 Dolostone, lt-med grey, finely xalline to sublithographic, brecciated, white dolomite breccia filling, limonitic, vuggy in part, fracturing at 90° to core axis.	50											
30	#	32 Regolith, consisting of intensely weathered dolostone, limonitic, brecciated, argillaceous in part	90											
	6		100											
40			100											
		50 Regolith, composed of lt-med grey dolostone, brecciated and friable	100											
50		51 Regolith, composed of intensely altered rusty, orange dolostone, limonitic	100											
		52 Regolith, composed of lt-med grey dolostone, brecciated, limonitic in part	100											
60		56 Dolostone, lt-med grey, xalline, weakly brecciated, white dolomite breccia filling, slightly limonitic, fracturing at 70-90° to core axis, minor carbonaceous mudstone seams, minor siliceous intervals associated with more intense brecciation												
	U													
70	N													
	I													
	T													
80			100											
	#	87-92' fractures filled with dk.carb material												
90	2	92' quartz-calcite vein												
100			85											
			100											
110			92											
120			100											
126														

DIAMOND DRILL LOG

TAIGA CONSULTANTS LTD.
SUITE 100, 1300 - 8TH STREET S.W.
CALGARY, ALBERTA T2R 1B2

DIAMOND DRILL HOLE No. 80-23

CLIENT: Kenton Natural Resources Corporation

PROJECT: Rusty Springs, Yukon Territory

LOCATION: L 3+00S, 1+00E
BEARING:
INCLINATION AT COLLAR: -90°
DIP TEST:

LENGTH: 125 feet
ELEVATION: 2100 feet
CORE SIZE: HQ to 50'; NQ to end
LOG SCALE: 1:150

LOGGED BY: J.Davis & D.Hoy
ASSAYED BY:
DATE COLLARED: July 20/80
DATE COMPLETED: July 22/80

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.
	UNIT #6	0 No Core Recovery, drill casing	0
10		11 Regolith, med-dk grey, argillaceous-carbonaceous dolostone, brecciated, milky white vuggy quartz	53
		13 Regolith, mod.weathered limonitic, grey dolostone, brecciated, slightly silicic, euhedral limonite after pyrite	70
20		17 Regolith, composed of frags of milky white iron-std quartz and deeply weathered brecciated dolomite, dolomite contains secondary qtz xals, limonitic	50
			100
30		28 Regolith, consisting of intensely weathered dolostone, abundant limonite & secondary qtz, brecc'd	50
	UNIT #3	33 Dolostone, med.grey to rusty brown, argillaceous and vuggy, fracturing perpend. to core axis	100
40			
		45 Dolostone, greenish-grey to rusty brown, less arg than above, limonitic blebs after pyrite to 71' after which Py is fresh, weakly fractured	100
50			79
60			100
70			83
80			100
90			50
			56
		100 Fractured, argillaceous-carbonaceous mudstone, slightly limonitic	100
100			100
	UNIT #2	102 Dolostone, lt-med grey, fine-med xalline, brecc'd, carbonate fracture fillings	100
110			
120			
125			

ASSAY RESULTS											
CORE SAMPLE						SLUDGE SAMPLE					
Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %

DIAMOND DRILL LOG

TAIGA CONSULTANTS LTD.
SUITE 100, 1300 - 8TH STREET S.W.
CALGARY, ALBERTA T2R 1B2

DIAMOND DRILL HOLE No. 80-24

CLIENT: Kenton Natural Resources Corporation

PROJECT: Rusty Springs, Yukon Territory

LOCATION: L 2+70S, 3+60E
BEARING:
INCLINATION AT COLLAR: -90°
DIP TEST:

LENGTH: 12 feet
ELEVATION: 2160 feet
CORE SIZE: HQ
LOG SCALE: 1:150

LOGGED BY: J.Davis & D.Hoy
ASSAYED BY:
DATE COLLARED: July 23/80
DATE COMPLETED: July 23/80

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS										
				CORE SAMPLE						SLUDGE SAMPLE				
				Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %
	UNIT # 6	Regolith, composed of med.grey, mod-intensely altered xalline dolostone, dolomitic sand, in part limonitic extremely friable	46											
12		Hole abandoned due to lack of drilling water												

DIAMOND DRILL LOG

TAIGA CONSULTANTS LTD.
SUITE 100, 1300 - 8TH STREET S.W.
CALGARY, ALBERTA T2R 1B2

DIAMOND DRILL HOLE No. 80-25

CLIENT: Kenton Natural Resources Corporation

PROJECT: Rusty Springs, Yukon Territory

LOCATION: L 2+00N, 6+40W
BEARING:
INCLINATION AT COLLAR: -90°
DIP TEST:

LENGTH: 284 feet
ELEVATION: 1890 feet
CORE SIZE: HQ to 42'; NQ to end
LOG SCALE: 1:150

LOGGED BY: J.Davis & J.Bankowski
ASSAYED BY:
DATE COLLARED: July 24/80
DATE COMPLETED: July 27/80

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS										
				CORE SAMPLE						SLUDGE SAMPLE				
				Sam.Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam.Int.	Ag oz/T	Cu %	Pb %	Zn %
0		0 Regolith, composed of mod-heavily decomposed, dk. grey dolostone, carbonaceous, brecciated with white dolomite breccia filling, massive white milky quartz constitutes ~10% of the section, minor seams of competant dolostone interbedded with less competant regolith.	25											
10														
20			25											
30			40											
40	U		50											
	N													
	I		48											
50	T	52-54 regolith as above, vuggy with vugs containing euhedral quartz crystals												
			100											
60	#													
	6	64-65 med.grey brecciated dolostone, with white dolomite breccia filling	85											
70														
			100											
80		79-82 weakly weathered, dk.grey dolostone, argillaceous, brecciated												
			86											
90														
			100											
100														
		105-106 gossanous zone, possibly weathered sulfides	100											
110		110 possible ash? crystal remnants	80											
120			83											
130	U	129 Dolostone, dk.grey, argillaceous-carbonaceous, fetid, brecciated with white dolomite breccia filling, vuggy.	80											
	N	131' possible brachiopod & ostracod shell frags												
	I		43											
140	T													
	#													
	3													

DIAMOND DRILL HOLE No. 80-25

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS										
				CORE SAMPLE						SLUDGE SAMPLE				
				Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %
150			33											
	U													
	N													
160	I		79											
	T													
170														
	#		85											
	3													
180														
190			100											
200		200' worm burrows, possible recepticlides coral												
210			70											
220			37											
		227 goethite, some botryoidal												
230			16											
		237-255 quartz pebbles, white, brecciated, slightly limonitic												
240														
250			29											
		255 Dolostone, brecciated, silicified, lt-mod weathering iron staining, quartz veining prominent												
260			38											
		265- gossan possibly weathered sulfide												
	U	266 Dolostone, lt-grey, xalline, brecciated with white dolomite breccia filling, tr Py associated with minor mudstone seams												
270	N		82											
	I													
	T													
	#		100											
	2													
284														

DIAMOND DRILL LOG

TAIGA CONSULTANTS LTD.
SUITE 100, 1300 - 8TH STREET S.W.
CALGARY, ALBERTA T2R 1B2

DIAMOND DRILL HOLE No. 80-26

CLIENT: Kenton Natural Resources Corporation

PROJECT: Rusty Springs, Yukon Territory

LOCATION: L 2+00N, 6+40W
BEARING:
INCLINATION AT COLLAR: -60°
DIP TEST:

LENGTH: 77 feet
ELEVATION: 1890 feet
CORE SIZE: HQ to 55'; NQ to end
LOG SCALE: 1:150

LOGGED BY: J.Davis & J.Bankowski
ASSAYED BY:
DATE COLLARED: July 28, 1980
DATE COMPLETED: July 29, 1980

DEPTH	LITHOL	GEOLOGICAL DESCRIPTION	% REC.	ASSAY RESULTS										
				CORE SAMPLE						SLUDGE SAMPLE				
				Sam. Int.	Au oz/T	Ag oz/T	Cu %	Pb %	Zn %	Sam. Int.	Ag oz/T	Cu %	Pb %	Zn %
0		Regolith composed of moderate to heavily decomposed dk.grey dolostone, carbonaceous, silicified, brecciated with white dolomite & qtz breccia filling. Competant seams of dolostone interbedded with less competant regolithic units												
10			100											
	U	15.5-15.7 quartz, milky white	50											
20	N													
	I		20											
	T													
30														
	#		28											
	6													
40														
		42.0-51.0 regolith as above, clay-rich brecciated, dolostone & qtz frags												
			50											
50		51-53 dolostone horizon, dk.grey, siliceous, carbonaceous												
		53-54 quartz pebbles, brecciated												
		55-59 regolith as described above	50											
60														
		59-62 gossan, possibly weathered sulfide												
		62-65 regolith, deeply weathered dolostone, carbonaceous, brecciated	92											
70		65-66 gossan												
		66-77 interbedded units of regolith, dk.grey carbonaceous dolostone, & limonitic goethite gossan	100											
77														

To: TAIGA CONSULTANTS LTD.,
1300 - 8th Street S.W.,
Calgary, Alta. T2R 1B2

ATTN: Jim Davis

File No. 24008
Date October 19, 1982
Samples Core

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ/TON Gold	OZ/TON Silver	% Cu	% Pb	% Zn
"Core Samples"					
82-1					
261-262	Trace	.04	Trace	.02	.01
267-268	Trace	.12	Trace	.02	.01
268-272	Trace	Trace	Trace	.02	.01
272-275	Trace	.14	Trace	.02	.01
275-279	Trace	.02	Trace	.02	.01
279-281	Trace	.22	.07	.26	.07
281-282	Trace	.08	Trace	.02	.01
282-284	Trace	.02	Trace	.01	.01
284-286	Trace	Trace	Trace	.01	.01
286-288	Trace	.02	Trace	.01	.01
288-290	Trace	.04	Trace	.01	.01
82-2					
41-42	Trace	.46	Trace	.02	.18
42-49	Trace	.32	.01	.01	.10
49-57	Trace	.54	.07	.05	.02
57-72	Trace	.36	.02	.02	.01
72-77	Trace	.26	.02	.02	.01
77-82	Trace	.24	.01	.02	.01

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

jects Retained one month.
lps Retained one month
unless specific arrangements
de in advance.

Assayer

To: TAIGA CONSULTANTS LTD.,
1300 - 8th Street S.W.,
Calgary, Alta. T2R 1B2

ATTN: Jim Davis

File No. 24008
Date October 19, 1982
Samples Core

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ/TON Gold	OZ/TON Silver	% Cu	% Pb	% Zn
82-2					
82-87	Trace	.40	.01	.03	.01
87-90	Trace	.60	.01	.02	.01
90-93	Trace	.14	Trace	.01	.01
93-94	Trace	.08	.01	.02	.01
243.2-244.2	Trace	.08	Trace	.02	.01
244.3-244.10	Trace	.10	Trace	.02	.01
244.10-245.3	Trace	.44	Trace	.02	.01
264.6-264.9	Trace	.14	.01	.03	.02
277-278	Trace	Trace	Trace	.02	Trace
82-3					
40-42.5	Trace	.16	Trace	.01	Trace
42.5-52	Trace	.08	Trace	.01	Trace
52-52.5	Trace	.16	Trace	.01	.06
52.5-54.5	Trace	.14	.01	.06	.62
54.5-60	Trace	.06	Trace	.01	.01
60-62	Trace	.02	Trace	.01	.02
62-67	Trace	.10	Trace	.01	.01
72-77	Trace	.08	Trace	.01	Trace
77-82	Trace	.20	Trace	.02	.24

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Rejects Retained one month.
Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: TAIGA CONSULTANTS LTD.,
1300 - 8th Street S.W.,
Calgary, Alta. T2R 1B2

ATTN: Jim Davis

File No. 24008
Date October 19, 1982
Samples Core

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ/TON Gold	OZ/TON Silver	% Cu	% Pb	% Zn
82-3					
67-82	Trace	.12	Trace	.01	.02
82-82.5	Trace	.24	Trace	.01	.02
82.5-84.5	.016	.10	Trace	.02	.28
84.5-86	Trace	.06	Trace	.02	.03
86-87	.012	.24	Trace	.01	.13
87-92	Trace	.14	Trace	.01	.03
92-93.5	Trace	.20	Trace	.01	.11
93.5-94	Trace	.02	Trace	.01	.01
94-96	Trace	.08	Trace	.02	.10
96-97.5	Trace	.06	Trace	.01	Trace
97.5-102.5	Trace	Trace	Trace	.01	.01
102.5-105	Trace	.10	Trace	.01	Trace
105-107	Trace	.26	Trace	.01	Trace
107-110	Trace	.18	Trace	.01	Trace
110-112	Trace	.10	.02	.08	.01
112-117	Trace	.14	Trace	.01	.01
117-119	Trace	.14	.08	.06	.11
119-121.5	Trace	.12	.01	.02	.01
121.5-122.6	Trace	Trace	Trace	.01	Trace
122.6-123	Trace	.08	.01	.02	.02

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

jects Retained one month.
lps Retained one month unless specific arrangements ade in advance.

Assayer

To: TAIGA CONSULTANTS LTD.,
1300 - 8th Street S.W.,
Calgary, Alta. T2R 1B2

ATTN: Jim Davis

File No. 24008
Date October 19,1982
Samples Core

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ/TON Gold	OZ/TON Silver	% Cu	% Pb	% Zn
82-3					
176-178	Trace	.18	.02	.01	.02
82-4					
14-17	Trace	.06	Trace	.02	Trace
17-26	Trace	.16	Trace	.09	Trace
26-28	Trace	.06	Trace	.02	Trace
28-30	Trace	.06	.01	.09	.01
30-38	Trace	.26	Trace	.03	Trace
38-40	Trace	.10	.01	.18	.02
40-43	Trace	.26	Trace	.27	.01
43-44	Trace	.06	Trace	.36	Trace
44-46	Trace	.08	Trace	.05	.01
46-47	Trace	.60	.01	.12	.02
47-48.5	Trace	.02	Trace	.03	.01
48.5-56	Trace	.12	.02	.27	.12
56-59	Trace	.06	Trace	.03	.01
59-67	Trace	.18	.02	.33	.14
67-77	Trace	.14	.01	.32	.15
77-85	Trace	.16	.01	.26	.09

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

jects Retained one month.
Pulps Retained one month unless specific arrangements ıde in advance.

Assayer

To: TAIGA CONSULTANTS LTD.,
1300 - 8th Street S.W.,
Calgary, Alta. T2R 1B2

ATTN: Jim Davis

File No. 24008
Date October 19, 1982
Samples Core

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ/TON Gold	OZ/TON Silver	% Cu	% Pb	% Zn
82-5					
17-27	Trace	3.22	.03	1.63	.01
27-34	Trace	.36	.04	.25	.01
34-42	Trace	.40	.08	1.07	.09
42-47	Trace	.70	.10	1.68	.21
47-55	Trace	.58	.15	1.45	.11
55-57.7	Trace	3.40	.21	8.73	.06
57.7-58	Trace	3.34	.02	16.65	.01
58-59	Trace	6.36	.02	23.42	Trace
59-59.9	Trace	1.88	.08	9.83	.01
59.9-62	Trace	13.92	.02	52.61	Trace
62-62.3	Trace	1.16	.42	10.92	.07
64-64.8	.006	1.38	.04	3.25	.01
64.8-67	Trace	8.38	.10	1.77	.02
67-68.3	Trace	.54	.01	.21	.02
62.3-64	Trace	1.00	.27	3.01	.02
107-115	Trace	8.02	.16	6.60	.07
82-6					
43-47	Trace	9.80	.11	1.19	.05
47-51	Trace	1.60	.10	.60	.01

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

jects Retained one month.
Pulps Retained one month unless specific arrangements ide in advance.

Assayer

To: TAIGA CONSULTANTS LTD.,
1300 -8th Street S.W.,
Calgary, Alta. T2R 1B2

ATTN: Jim Davis

File No. 24008
Date October 19, 1982
Samples Core

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ/TON Gold	OZ/TON Silver	% Cu	% Pb	% Zn
82-6					
57-67	Trace	9.34	.07	31.22	.01
82-7					
59.5-62.5	Trace	1.96	.01	.13	.02
62.5-65	Trace	1.94	.01	.28	.01
65-72	Trace	.44	.01	.12	Trace
72-74	Trace	.46	.01	.05	Trace
74-78	Trace	.04	.01	.05	Trace
78-80	Trace	1.58	.03	.31	.02
80-83	Trace	.38	.57	.12	.05
83-85	Trace	.64	.21	.27	.03
85-86	Trace	.36	.03	.08	.01
108-109	Trace	.28	.06	.09	.03
82-8					
90-92	Trace	Trace	Trace	.01	Trace
92-97	Trace	.02	.01	.01	Trace
97-102	Trace	Trace	.01	.01	.02
102-107	Trace	Trace	.01	.01	.01
107-112	Trace	.12	.01	.01	.01

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: TAIGA CONSULTANTS LTD.,
1300 - 8th Street S.W.,
Calgary, Alta. T2R 1B2

ATTN: Jim Davis

File No. 24008
Date October 19, 1982
Samples Core

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ/TON Gold	OZ/TON Silver	% Cu	% Pb	% Zn
82-8					
112-117	Trace	Trace	.01	.01	Trace
117-122	Trace	Trace	.01	.01	Trace
122-126	Trace	Trace	.01	.01	Trace

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

jects Retained one month.
lps Retained one month
unless specific arrangements
ade in advance.

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alta. T2R 1B2

ATTN: Jim Davis

File No. 24087
Date November 9, 1982
Samples Sludge
Project: Y-81-2

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ/TON Silver	% Cu	% Pb	% Zn
"Sludge Samples"				
82-1				
0-15	.04	Trace	.02	.01
15-20	.06	.01	.02	.02
20-25	.20	Trace	.02	.02
25-30	.04	Trace	.02	.01
35-40	.08	Trace	.02	Trace
40-45	.04	Trace	.02	Trace
86-91	.10	.01	.03	.01
82-2				
35-40	.06	Trace	.02	.05
40-45	.04	.02	.01	.07
85-90	.04	.02	.02	.04
90-95	.60	.06	.03	.06
82-3				
62-67	.06	.02	.02	.12
67-72	.04	.02	.01	.12
72-77	.04	.01	.02	.06
77-82	.04	.01	.03	.21

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alta. T2R 1B2

ATTN: Jim Davis

File No. 24087
Date November 9, 1982
Samples Sludge
Projevt: Y-81-2

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ/TON Silver	% Cu	% Pb	% Zn
82-87	.04	.01	.03	.16
87-92	.06	.01	.02	.16
92-97	.04	.01	.02	.13
97-102	.04	.01	.02	.08
102-107	.04	.01	.02	.04
107-112	.06	.03	.03	.12
112-117	.06	.03	.03	.16
117-122	.04	.02	.03	.07
122-127	.04	.03	.03	.09
127-132	.08	.06	.04	.11
132-137	.04	.01	.02	.03
137-142	.04	.01	.02	.03
142-147	.04	.01	.01	.05
147-152	.06	.01	.02	.04
82-4				
42-47	.16	.10	.42	.08
47-57	.12	.05	.24	.07
57-67	.04	.03	.25	.12
67-77	.68	.02	.78	.11
77-87	.22	.02	.25	.11

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alta. T2R 1B2

ATTN: Jim Davis

File No. 24087
Date November 9, 1982
Samples Sludge
Project: Y-81-2

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ/TON Silver	% Cu	% Pb	% Zn
87-97	.56	.02	.23	.10
82-5				
27-37	.48	.14	.66	.07
37-47	.56	.11	.69	.07
47-52	.52	.12	.81	.09
52-57	.58	.12	.87	.08
57-62	.96	.13	1.58	.08
62-67	1.90	.13	5.10	.07
67-72	1.98	.11	1.54	.06
72-77	1.08	.09	1.04	.05
82-6				
37-47	2.80	.10	.36	.04
47-57	1.98	.10	.85	.04
57-62	3.16	.11	1.71	.04
No Number (Probably 62-67)	2.78	.12	1.13	.05

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

LORING LABORATORIES LTD.
629 Beaverdam Rd. N.E.
Calgary, Alberta T2K 4W2
Phone 274-2777

Cu, Pb, Zn Assays on A.A.

1) .5 gm. sample in 150 ml beaker
2) Wet with H2O
3) Add 10 ml HNO3 + 10 ml HCl + 5 ml HClO4
4) Boil to perchloric fume
5) Take off and let cool
6) Add 10 ml HCl, boil and filter into 200 ml flasks. (#2 filter paper & paper pulp)
7) Use appropriate standards for the 3 elements

629 Beaverdam Rd. N.E.
Calgary 67, Alberta

LORING LABORATORIES LTD.

Phone 274-2777

FIRE ASSAYING OF GOLD & SILVER

A ½ or 1 assay ton of -100 mesh pulp is weighed into a 30 gram crucible. The sample is fluxed according to the minerology of the sample.

i.e.: For siliceous ores make monosilicate slags.

For basic ores containing any of the following: Fe_2O_3, Fe_3O_4, $CaCO_3$, $MgCO_3$ or MnO_2 make bisilicate slags.

For basic ores containing any of the following: Pb, Zn Fe, As, Sb, Cu and Te make mono or sesquisilicate slags.

FUSING

Crucibles are loaded into a muffle at 1650°F. Temperature is turned up to 1900°F of 2000°F if heavy sulfides are present. About 1 hour is required to complete the fusion. Crucibles are then poured into conical shaped molds, cooled and then the slag is separated from the lead buttons. The buttons are then cubed for easier handling and cleaning.

CUPELLATION

Cupels are charged in the muffle and heated at 1650°F for 10 minutes. Lead buttons are then charged into the muffle which has a temperature of 1650°. The door is lowered and buttons are allowed to open. When all buttons are open the temperature is lowered to 1400° and as soon as the temperature has reached this point the recorder is set at 1350°F. The temperature shall be turned up to 1500° 5 minutes before the finish. Cupels are removed from the muffle and allowed to cool. Beads are then removed from cupels and then placed into coor cups and then weighed. When all beads are weighed, the silver is then parted from the gold by dissolving it with 1:7 nitric acid. The gold bead is then washed, annealed and weighed. The weight of the gold bead is deducted from the total weight and we have both answers for gold and silver.

APPENDIX II

PROPOSED BUDGET 1983 DRILLING PROGRAM

on the RUSTY SPRINGS PROJECT, Yukon

PRE-FIELD			
Drill contract negotiations; logistics			$ 2,500.00
FIELD			
Diamond Drill Program (4-man crew)			
4500 feet (1370 metres) NQ drilling @ Estimated Gross $50/foot ($164.04/metre); including mog to and demob from Mile 150 on the Dempster Highway, casing overburden, drilling, drill moves, water supply, core boxes, mud dip tests, etc.			225,000.00
Taiga Personnel			
Project Geologist	42 days @ $275/diem	11,550.00	
Sampler	42 days @ $140/diem	5,880.00	
Cook	42 days @ $120/diem	5,040.00	
Catskinner (10 hrs/day)	42 days @ $ 45/hour	18,900.00	41,370.00
Camp Costs			
Food (incl drill crew)	336 man days @ $25/day	8,400.00	
Equipment Rentals	336 man days @ $ 5/day	1,680.00	
Radio Rental 100W base	(from Search & Supply)	940.00	
Wajax pump	42 days @ $25/diem	1,050.00	12,070.00
Mob and Demob			
Drill contractor from Mile 150 to Rusty Springs		15,000.00	
Taiga personnel from Calgary to Rusty Springs		10,000.00	25,000.00
Service Flights			
6 Twin Otter flights from Inuvik (one per week)			13,800.00
Assaying and Geochemistry			15,000.00
Miscellaneous			
Expediting, freight, disposable supplies, radio-telephone calls, etc.			5,500.00
POST-FIELD			
Data compilation, report preparation, drafting, reproductions, materials			9,760.00
		Sub-Total	$ 350,000.00
Contingency Allowance			35,000.00
		Grand Total	$ 385,000.00

RECEIVED
DEC 21 1982
MINING RECORDER
DAWSON, Y.T.
I.A. & N.D.

Office of the Regional Man-
JAN 7 1983
Yukon Terr...

REPORT ON GEOCHEMICAL, GEOPHYSICAL, GEOLOGICAL, AND TRENCHING PROGRAMS on the RUSTY SPRINGS PROPERTY YUKON TERRITORY

Claims: Rio 1-104, Carb 1-16,
Nate 3-14, HG 1-146,
JP 1-54, Moose 1-48

N.T.S. 116 K/8, 9

Latitude 66°30' North

Longitude 140°25' West

prepared for

KENTON NATURAL RESOURCES CORPORATION

Calgary, Alberta

by

James W. Davis, M.Sc., P.Geol., F.GAC

Claude H. Aussant, P.Geol.

TAIGA CONSULTANTS LTD.

Calgary, Alberta

091410

June - July 1982

2 of 2

CERTIFICATE

I, the undersigned, of the City of Calgary in the Province of Alberta, do hereby certify that:

1. I am a Professional Geologist with an office mailing address of Suite 100, 1300 - 8th Street S.W., Calgary, Alberta;

2. I graduated from St. Louis University with a Bachelor of Science degree in 1967 and with a Master of Science degree in 1969;

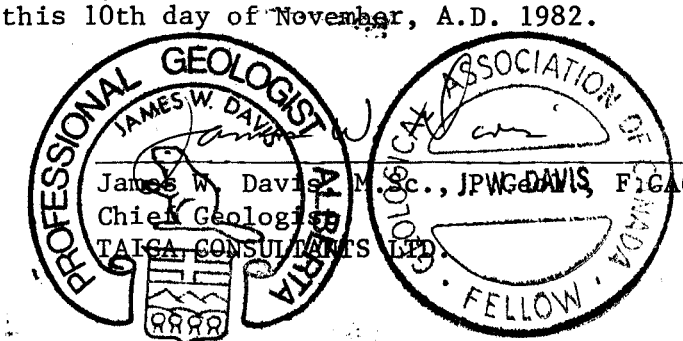
3. I am a registered Professional Geologist with the Association of Professional Engineers, Geologists and Geophysicists of Alberta for the past eleven years;

4. I have practised my profession as a geologist for fifteen years;

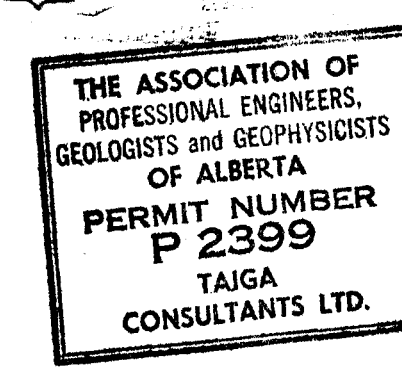
5. I am the beneficial owner of 10,500 shares of Kenton Natural Resources Corporation;

6. I have personally directed the exploration carried out on the claims mentioned herein during the period of June 14 to July 8, 1982.

DATED at Calgary, Alberta, this 10th day of November, A.D. 1982.



James W. Davis, M.Sc., JPWDAVIS, FGAC
Chief Geologist
TAIGA CONSULTANTS LTD.



CERTIFICATE

I, the undersigned, of the City of Calgary in the Province of Alberta, do hereby certify that:

1. I am a practising Professional Geologist with offices at Suite 100, 1300 - 8th Street S.W., Calgary, Alberta;

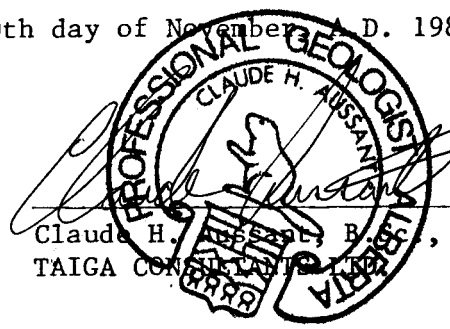
2. I am a graduate of the University of Calgary, with a Bachelor of Science degree in Geology (1976);

3. I have practised my profession for six years since graduation;

4. I am a member in good standing since 1979 of the Association of Professional Engineers, Geologists and Geophysicists of Alberta;

5. I have personally worked on the claims mentioned herein, and supervised exploration work carried out thereon.

DATED at Calgary, Alberta, this 10th day of November, A.D. 1982



Claude H. Aussant, B.Sc., P.Geol.
TAIGA CONSULTANTS LTD.

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7 Trench #7 19
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10 Reconnaissance VLF-E.M. Line. . . . . .Back Pocket

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1	Property Geology	Orma Hill
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5	VLF-E.M. Fraser Filtered	Orma Hill
6	VLF-E.M. Fraser Filtered	Mike Hill
7	Geochemical Contours and Results - Ag	Orma Hill
8	- Pb	Orma Hill
9	- Zn	Orma Hill
10	- Cu	Orma Hill
11	Geochemical Contours and Results - Ag	Mike Hill
12	- Pb	Mike Hill
13	- Zn	Mike Hill
14	- Cu	Mike Hill

INTRODUCTION

At the request of Mr. R. W. Termuende (President of Kenton Natural Resources Corporation), Taiga Consultants Ltd. was contracted to carry out a comprehensive mineral exploration program on the Rusty Springs property, in the northern Yukon.

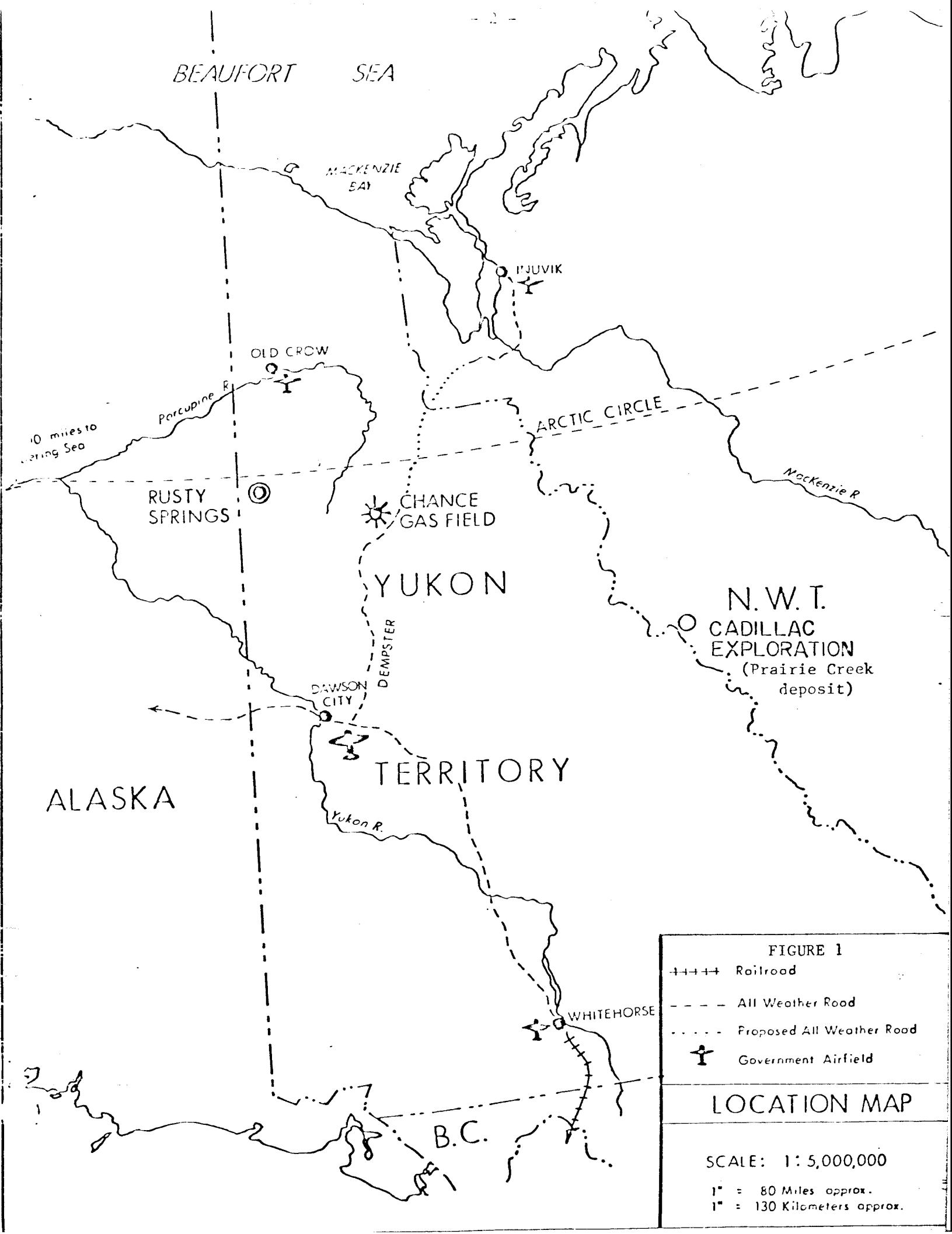
During the period from June 14 to July 8, 1982, a soil geochemical survey, a geophysical (VLF-E.M.) survey, and detailed geological mapping of the property were completed as well as six trenches dug in order to define the style of mineralization present.

The intent of the program was to define drilling targets based on the results of this exploration and on the results of previous work carried out on the property.

Location and Access

The location and access to the property are illustrated on Figure 1. Rusty Springs is situated in the northwestern part of the Yukon at approximately 67° North latitude and 140° West longitude in N.T.S. 116 K/8 and 116 K/9. The property is about 8 km south of the Arctic Circle and 29 km east of the Alaska border.

Access to the property is via wheel or ski-equipped aircraft or by winter road. The first of two airstrips on the property is approximately 365 metres long, suitable for winter use only, and the second is approximately 236 metres long, adequate for use in the summer months. Both strips can accommodate aircraft up to the size of a Twin Otter. Road access has been previously developed for winter haulage from Mile 123 (Ogilvie Crossing) on the Dempster Highway over a distance of 193 km. The Dempster Highway is a government-maintained all-weather road providing access from the south. The winter road access traverses gently sloping terrain without any major topographic obstacles. A base camp consisting of seven half-frame tents is situated on the northwest slope of Orma Hill in the eastern part of the property.


BEAUFORT SEA
MACKENZIE BAY
INUVIK
OLD CROW
Porcupine R.
10 miles to Bering Sea
ARCTIC CIRCLE
MacKenzie R.
RUSTY SPRINGS
CHANCE GAS FIELD
YUKON
N.W.T.
CADILLAC EXPLORATION
(Prairie Creek deposit)
DEMPSTER
DAWSON CITY
TERRITORY
ALASKA
Yukon R.
WHITEHORSE
B.C.
FIGURE 1
Railroad
All Weather Road
Proposed All Weather Road
Government Airfield
LOCATION MAP
SCALE: 1: 5,000,000
1" = 80 Miles approx.
1" = 130 Kilometers approx.

Claim Status

The Rusty Springs property is comprised of 380 Quartz Claims totalling 7,943 hectares (19,627 acres) (see Table 1).

A thorough search of the claim records on file in Rio Alto Exploration Ltd.'s Calgary office was performed by R. T. Heard, P.Eng. in March 1980. This included the original claims affidavits, transfer documents, grouping certificates, and certificates of work. To this writer's knowledge, all claims are validly located and registered in the name of Rio Alto Exploration Ltd. All claims are in good standing until 1983 or later.

Fifteen overlying Iron Claims (Yeti 1-12, Rio 1-3; also registered in the name of Rio Alto Exploration) are not included in this project.

The claims are documented on claim sheets 116 K/8 and 116 K/9, Dawson Mining District, Yukon Territory. Assessment work requirements in the Yukon are $100 per claim per year.

Physiography

The Rusty Springs property lies within the Porcupine Ranges of the Ogilvie Mountains. Maximum relief on the property is 245 metres (800 feet), varying from approximately 550 to 790 metres (1800 to 2600 feet) ASL. The topography consists of broad, gently sloping valleys and rounded hills. The entire property area lies within that portion of the Yukon which is unglaciated. As a result, a thick regolith has developed in the area. Permafrost conditions exist throughout the area which has resulted in solifluction and extensive down-slope creep of the regolith.

TABLE 1

Claims Status

Quartz Claims	Record Numbers	Expiry Dates
RIO 1-11	YA2826 - YA2836	Oct. 16/87
12	YA2837	Oct. 16/88
13-24	YA2838 - YA2849	Oct. 16/87
25-26	YA2850 - YA2851	Oct. 16/88
27	YA2852	Oct. 16/89
28	YA2853	Oct. 16/88
29	YA2854	Oct. 16/87
30	YA2855	Oct. 16/88
31	YA2856	Oct. 16/87
32	YA2857	Oct. 16/88
33-38	YA2858 - YA2863	Oct. 16/87
39	YA2864	Oct. 16/88
40-46	YA2865 - YA2871	Oct. 16/87
47	YA2872	Oct. 16/88
48	YA2873	Oct. 16/87
49	YA2874	Oct. 16/88
50-60	YA2875 - YA2885	Oct. 16/87
61-74	YA10160 - YA10173	May 31/88
75	YA10174	May 31/89
76-104	YA10175 - YA10203	May 31/88
NATE 3-6	YA2902 - YA2905	Oct. 16/87
7-14	YA2906 - YA2913	Oct. 16/88
CARB 1-16	YA2886 - YA2900	Oct. 16/87
HG 1-57	YA10944 - YA11000	Nov. 29/83
58-146	YA29401 - YA29489	Nov. 29/83
JP 1-54	YA29490 - YA29543	Nov. 29/83
MOOSE 1-48	YA10820 - YA10867	Oct. 3/84

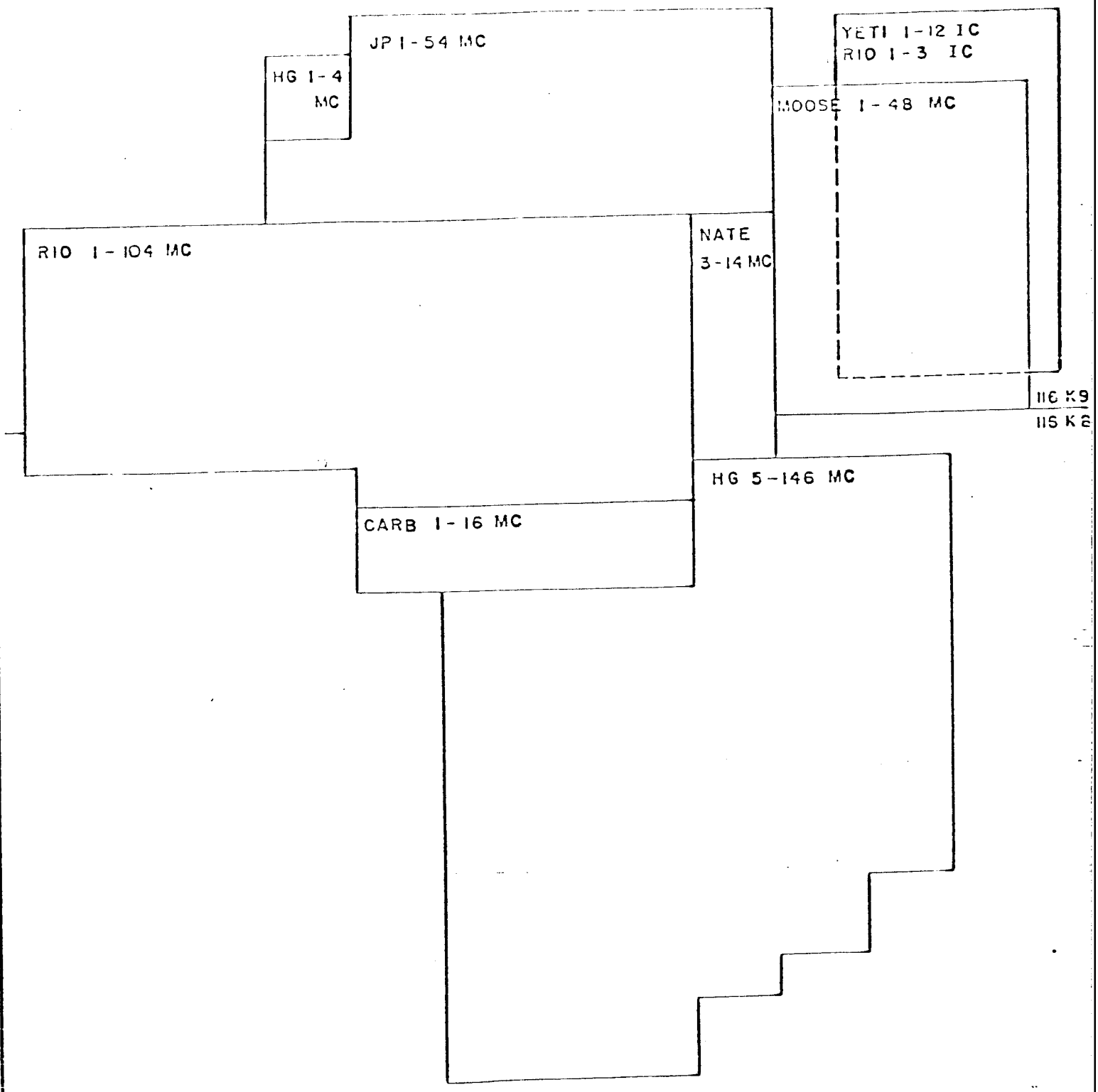


FIGURE 2

RUSTY SPRINGS
MINERAL PROSPECT

CLAIM MAP

NTS SHTS. Nos. 116K 8 & 9

SCALE 1 in. = 1 mi.

HISTORY OF EXPLORATION

During the fall of 1975, while investigating an oolitic iron formation, a rusty spring-seep was observed by R. W. Termuende and M. N. Chernoff. Upon investigation, the seep was found to be associated with high-grade silver, lead, zinc, and copper mineralization. A total of 92 quartz claims and 15 iron claims were staked during the fall and winter seasons.

During the 1976 summer season, a preliminary investigation of the property was conducted by Rio Alto Exploration Ltd., under the supervision of M. N. Chernoff. Exploration completed included helicopter-supported geological mapping, prospecting, sampling of mineralized float, and limited soil geochemical sampling. This work established the structural setting, confirmed the presence of high-grade silver values, and demonstrated the usefulness of soil geochemistry. The mineral occurrences were considered to be *hydrothermal vein systems with supergene enrichment* possibilities.

Based on encouraging results from this preliminary reconnaissance, a follow-up field program consisting of geological mapping, soil geochemical sampling, and 975 metres (3200 feet) of diamond drilling was conducted in 1977. Again, the results were considered positive, even though poor drill core recoveries were obtained. Additional ground was staked to give a total of 380 quartz claims and 15 iron claims.

A geological thesis by G. Schoel concluded that the *mineralization was probably Mississippi Valley type.*

During the winter of 1978, fuel, drill equipment, and supplies were ferried to the property by tractor train. That summer, two picket grids (totalling 67 line km) were established over the claims. Further geological mapping, soil geochemical sampling, diamond drilling (1840 metres), and metallurgical sampling were also completed. Poor drill core recovery once again hampered the effectiveness of the program.

A geological thesis was undertaken by D. Hansen, again *emphasizing a Mississippi Valley type model* for the mineralization.

Exploration during the period 1975 to 1978 inclusive, was funded by Rio Alto Exploration.

In 1979, detailed geological mapping, a soil geochemical survey, an Induced Polarization survey, and a gravity survey were completed. Joint funding of this work was by Rio Alto and E & B Explorations Ltd. of Calgary, Alberta.

A geological thesis by J. Bankowski indicated a *hydrothermal exhalative nature.*

In 1980, E & B Explorations undertook 1830 metres (6000 feet) of diamond drilling, 'cat' trenching, and some detailed geological mapping. Core recoveries were not significantly improved over previous years.

Aside from brief visits to the property by various parties, no further work was conducted on the prospect during 1981.

The most recent research work, carried out by Jill Kirker (c.f., report dated April 15, 1982), strongly supports a *hydrothermal origin for the mineralization.*

REGIONAL GEOLOGY

The regional geology, as illustrated in Figure 3, is based on a recent photogeologic interpretation by Taiga Consultants. Bedrock exposures within this region range in age from Devonian to Cretaceous. The oldest rock units exposed in the Rusty Springs area are the carbonates of the Middle Devonian Ogilvie Formation. All of the mineral occurrences discovered in this area to date are hosted by this unit.

Disconformably overlying the Ogilvie Formation are the shale, siltstone, and minor limestone units which comprise the Carboniferous Hart River Formation. The Hart River is succeeded by the late Carboniferous Ettrain Formation which consists of shale and carbonate units.

The Ettrain is disconformably overlain by the Permian Jungle Creek Formation, which in turn has been subdivided into a lower carbonate and clastic sequence and an upper shale sequence.

The Jungle Creek is unconformably overlain by the Jurassic (Lower Cretaceous?) Kingak Formation. The Kingak consists predominantly of shale with minor siltstone.

Structurally, the property lies along the axes of two northerly oriented anticlines. Locally, along the axes of the structures, a culmination or dome occurs in the Orma Hill and the Mike Hill areas. This domal structure may be the expression of one or more intrusives emplaced along the axial portion of these anticlines. Close examination of the axial portion of these folds reveals that the axis of culmination is displaced several times by easterly trending tear faults.

TABLE 2	TABLE OF FORMATIONS	
Jurassic (Cretaceous?)	Kingak Formation	
Permian	Jungle Creek Formation	upper
		lower
		undifferentiated
Carboniferous	Ettrain Formation	
	Hart River Formation	
Middle Devonian	Ogilvie Formation	

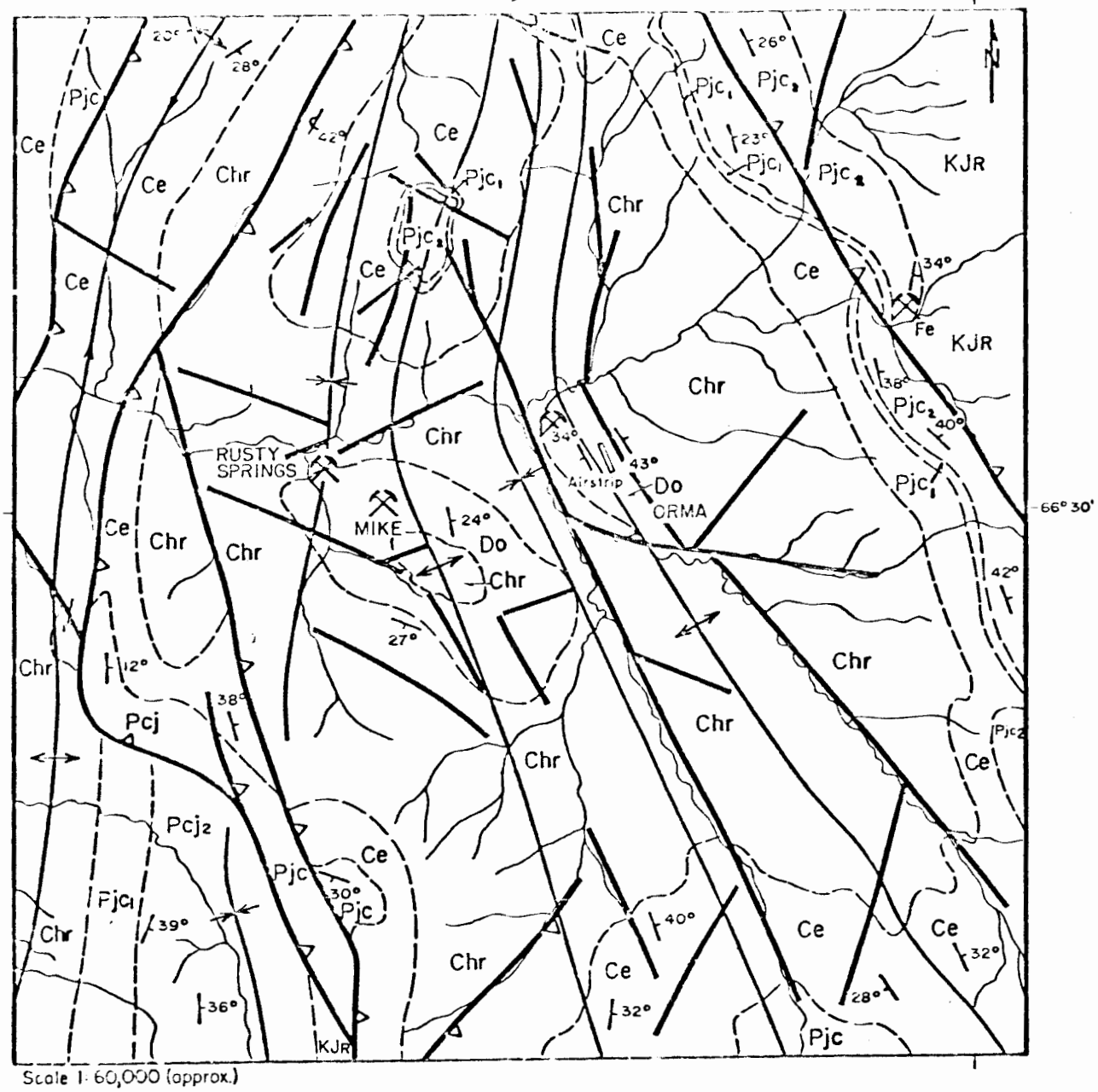


Figure 3

GEOLOGY OF THE RUSTY SPRINGS AREA

KJR	Kingak Fm. - shale
Pjc2	Jungle Cr. Fm. (shale unit)
Pjc1	Jungle Cr. Fm. (carbonate unit)
Pjc	Undifferentiated
Ce	Ettrain Fm. - shale and limestone
Chr	Hart River Fm. shale, siltstone and limestone
Do	Ogilvie Fm. - limestone

15°	Strike and dip (estimated)
	Overturned dip
	Anticline
	Syncline
	Fault, lineament
	Thrust fault
	Geological contact

EXPLORATION MODEL

Based on re-evaluation of previous work on the property and observations made during this summer's program, the mineralization present at Rusty Springs has been identified as "epithermal vein-type". Mineralization is essentially confined to vertical veins and is characteristic of hydrothermal systems in the temperature range of 200°C. This model designation is supported by the presence of widespread silicification, clay alteration, and the mineralogy of the veins.

The widespread presence of high-grade Ag mineralization indicates a good possibility of discovering "Bonanza-type" silver deposits in the area. These relatively low-temperature hydrothermal deposits are related to hot-spring activity with the boiling point of fluid systems critical to depositional control of ore minerals. Such deposits often exhibit considerable lateral as well as vertical zonation.

These deposits do not necessarily form large-tonnage situations, but due to the grade of mineralization, are capable of becoming economic in remote environments. In addition, a strong possibility of considerable supergene enrichment exists in this unglaciated terrain.

1982 FIELD PROGRAM

In order to evaluate the property, the claims were geologically mapped, trenching was undertaken to better expose mineralization at surface, and both geochemical and geophysical surveys were conducted.

Bedrock exposures within the area were located and examined in order to determine detailed stratigraphic information and to determine the structural orientation of these exposures. This information was tied into an existing grid established in the area.

Several existing trenches were re-opened and deepened in order to expose known mineralization. In addition, three new trenches were established to further delineate the areal extent and grade of mineralization present.

Geochemical surveys were undertaken to verify previous assay data of samples taken from these trenches and to extend the existing soil geochemical grid over the area. In particular, this new sampling extended over previously delineated Induced Polarization and Gravity anomalies.

Ground magnetic and VLF-E.M. surveys were conducted over the area. These were completed in order to delineate the trend of vein and fault systems in the area, and to aid in geologic mapping of the property.

GEOLOGICAL MAPPING

Geological mapping of the property was conducted utilizing conventional methods and plotting field observations onto the grid laid out in the area. Based on these field observations, combined with data from the re-logging of the 1980 drill core, a more detailed stratigraphic subdivision of the various rock units in the area was made. This breakdown is presented in Table 2 and the property geology is illustrated on Maps 1 and 2 which accompany this report, along with diamond drill hole locations, trench locations, and VLF-E.M. conductor axes.

The oldest unit exposed on the property is the Middle Devonian Ogilvie Formation. This formation can be broken down into three distinct lithologic units: a lower (locally fossiliferous) carbonaceous dolomite breccia unit; a middle crystalline dolomite breccia unit; and an upper carbonaceous breccia unit.

The lower dolomite breccia is a dark grey to black, carbonaceous, brecciated unit with white crystalline dolomite breccia filling. Locally, fossils consist of brachiopods, ostracods, and rare corals (syringopora?). These rocks are commonly fetid and organic-rich. This assemblage is typical of a shallow marine back reef facies. Minimum thickness of 67 metres.

The overlying crystalline unit is a light to medium grey, brecciated dolomite which is finely to medium crystalline, with white dolomite breccia filling and thin seams of carbonaceous mudstone. While porous and locally vuggy, this unit is rarely fetid. Estimated thickness is 53 metres.

The upper dolomite unit is a medium to dark grey, brecciated carbonaceous dolomite (siliceous in part) with white dolomite breccia filling similar to the lower dolomite unit. Often fetid, this unit contains occasional pyritic mudstone seams and this, combined with the carbonaceous nature of the dolomite, suggests a strongly reducing environment of deposition. This unit has rare fossils of brachiopods and corals and has a minimum thickness of 49 metres.

The brecciated nature of these units, which make up the upper succession of the Ogilvie Formation, is interpreted to be of tectonic origin. The fact that the Ogilvie Formation, which is normally a limestone, has been dolomitized and extensively brecciated in the property area could be explained by structural deformation combined with possible hydrothermal activity.

The contact with the overlying Carboniferous Hart River Formation is locally marked by a brecciated black chert horizon. This chert unit is of variable thickness up to perhaps 10 metres or may be missing entirely. Several small sinkholes are developed beneath this unconformity in the Ogilvie Formation, indicating that the Ogilvie was exposed above sea level and some solution activity took place prior to the deposition of the Hart River Formation.

The chert marker horizon is succeeded by a carbonaceous shale unit of unknown thickness and then by a carbonaceous siltstone unit, again of unknown thickness. Erosional remnants of the shale unit are exposed along the crest of Mike Hill to the west, and along Carroll Creek between Mike and Orma Hills. The overlying siltstone unit is in fault contact with the Ogilvie Formation on the east side of Orma Hill near the airstrip.

These rock units were folded and faulted in late Cretaceous to early Tertiary time. The observed style of structural deformation is suggestive of basement control. The overall structure of the Ogilvie Mountains may reflect Laramide movement along the Yukon Fault combined with a major eastward compressional event.

Orma Hill and Mike Hill are both structural and topographic highs. Orma Hill lies along a faulted asymmetric anticline with a steeper-faulted east flank. Mike Hill is an anticline which, although it has a much higher amplitude, is not faulted as intensely. Both anticlines appear to have a broad culmination or doming in the vicinity of Mike and Orma Hills, indicating possible intrusion at depth.

Faulting, as inferred from airphotos and VLF-E.M. data, is either east-west trending or has a roughly north-south orientation. It can be inferred from disruptions in VLF-E.M. conductors and in soil geochemical contours that the most recent movements are along the east-west trending faults which apparently offset the veins, which appear to occupy a northerly trending fracture system.

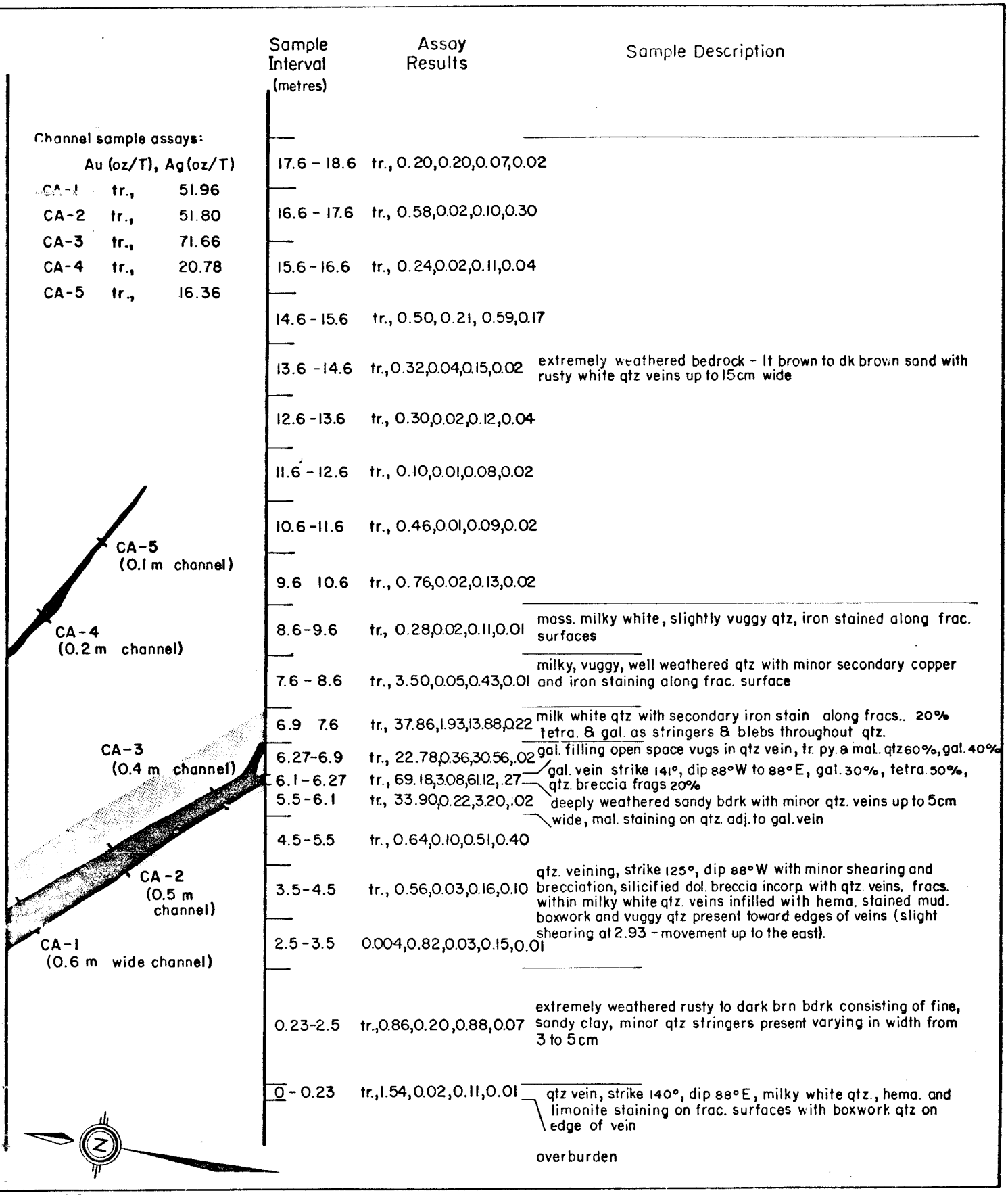
TRENCHING

A D7F caterpillar was used to carry out trenching on Orma and Mike Hills. Six shallow 'cat' trenches were previously made on Orma Hill and three of these (#2, #3, and #6) were re-opened and deepened. Three new trenches (#7, #8, and #10) were cut. The original trenches had been dug to only a shallow depth due to permafrost conditions. Since they were completed two years ago, the permafrost level has receded due to the removal of the overlying muskeg cover which normally insulates the bedrock. Thus, these older trenches could be cut 2 - 5 metres deeper this summer.

A massive, nearly vertical, 70 cm wide galena/tetrahedrite vein was delineated within a broad gossan zone in Trench #2. The entire mineralized interval was channel sampled and the resulting analyses (copper, lead, zinc, silver, and gold) are illustrated in Figure 4. Assay results confirm the presence of a mineralized zone, of both primary and secondary nature, of 34.74 oz/ton Ag over 2 metres which includes 0.8 metre of primary mineralization assaying 32.64 oz/ton Ag. Additionally, channel samples taken across the width of the primary galena/tetrahedrite vein at three locations range from a high of 51.96 oz/ton Ag over 0.6 metre to a low of 13.36 oz/ton Ag over 0.1 metre for an average of 42.51 oz/ton Ag.

Trench #3 was deepened in order to determine the source of mineralized boulders exposed from previous trenching. The trench was dug to a depth of approximately 6 metres with no primary mineralization discovered and only traces of secondary mineralization. A slight enrichment in silver content is noted throughout the trench, which consists of deeply weathered dolomite. This enrichment is probably the remnants of a deeply weathered quartz/galena/tetrahedrite/silver vein. The entire trench was channel sampled at one-metre intervals with the assay results and sample descriptions presented in Appendix A, and illustrated in Figure 5.

Trench #6 was deepened in order to better expose the mineralization known to be present. As shown in Figure 6, only a thin high-grade vein was exposed in this trench along with two broad gossan zones. Channel samples taken from this trench indicate a broad gossan zone yielding



Scale 1:100

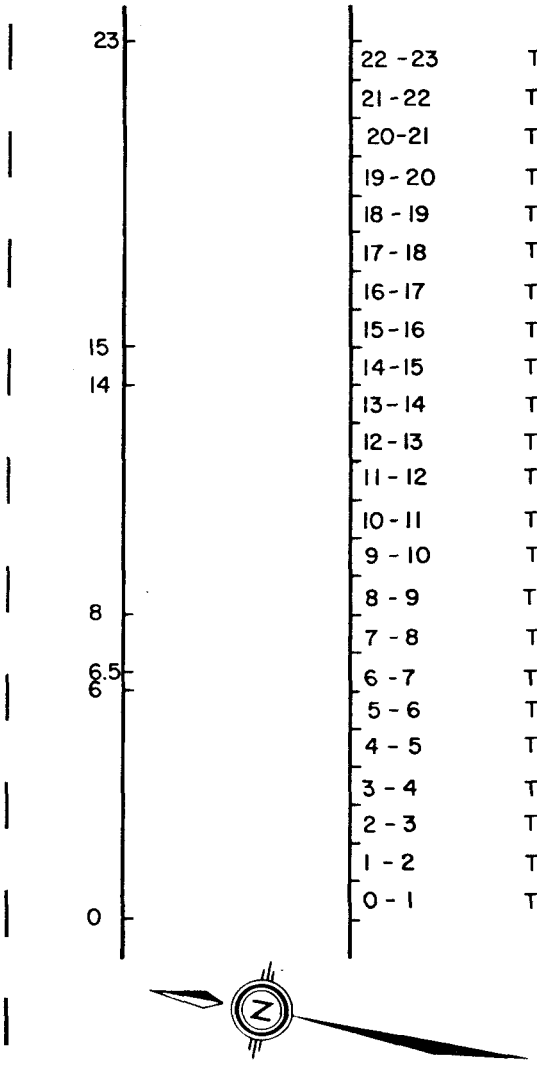
Figure 4

Trench 2

Massive galena - tetrahedrite

Gossan with secondary mineralization

Assay results: Au (oz/ton), Ag (oz/ton), Cu (%), Pb (%), Zn (%)



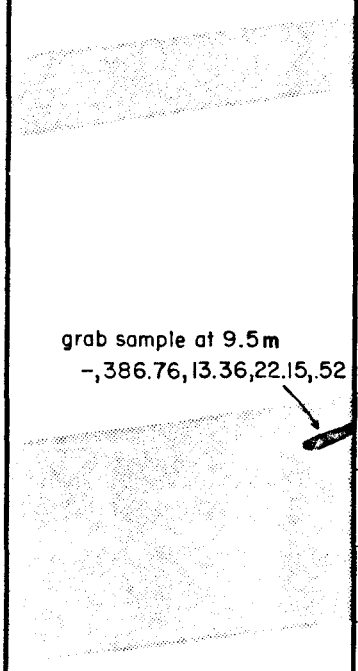
Sample interval (metres)	Assay Results oz/T Au	oz/T Ag	% Cu	% Pb	% Zn	Sample Description
						overburden
22 - 23	Tr	0.28	0.03	0.09	0.02	
21 - 22	Tr	0.38	0.02	0.07	0.01	dolostone, heavily decomposed, medium grey, brecciated and fractured, some sections less decomposed, Fe stain on more decomposed sections, black clayey sections in dolostone, formed from completely decomposed dolostone? White calcite vein from 21.0 - 21.04m.
20-21	Tr	0.64	0.04	0.12	0.03	
19 - 20	Tr	0.07	0.04	0.09	0.02	
18 - 19	Tr	0.14	0.03	0.06	0.04	
17 - 18	Tr	0.24	0.03	0.07	0.01	
16 - 17	Tr	0.20	0.02	0.07	0.01	
15 - 16	Tr	0.18	0.02	0.07	0.01	
14 - 15	Tr	0.38	0.03	0.10	0.04	dolostone, dark grey, completely decomposed
13 - 14	Tr	0.30	0.03	0.08	0.03	
12 - 13	Tr	0.72	0.24	0.36	0.05	quartz vein, heavily fractured and decomposed, Fe staining on fracture surfaces, quartz is white, crystaline. No sulphide seen in vein. Minor sulphide (galena) float found in area of vein while trench being excavated.
11 - 12	Tr	1.04	0.19	0.40	0.04	
10 - 11	Tr	0.70	0.14	0.39	0.04	
9 - 10	Tr	0.44	0.07	0.33	0.04	
8 - 9	Tr	0.46	0.19	0.45	0.05	
7 - 8	Tr	0.70	0.17	0.35	0.04	dolostone, black, completely decomposed
6 - 7	Tr	0.46	0.13	0.28	0.05	quartz vein, decomposed, Fe stained
5 - 6	Tr	0.82	0.40	0.50	0.08	
4 - 5	Tr	0.84	0.41	0.57	0.07	section composed primarily of abundant small fragments of white crystaline quartz in matrix of brown gossanous sand. Some heavily decomposed medium grey dolostone in section.
3 - 4	Tr	0.50	0.12	0.36	0.04	
2 - 3	Tr	0.48	0.08	0.26	0.04	
1 - 2	Tr	0.40	0.14	0.33	0.05	
0 - 1	Tr	0.44	0.07	0.18	0.03	
						overburden

cale 1:200

Figure 5

Trench 3

Assay results: Au(oz/T), Ag(oz/T), Cu(%), Pb(%), Zn(%)



Sample Interval	Assay Results	Sample Description
24 - 25	- , 0.08, - , 0.04, -	lt grey illite clay
23 - 24	- , 0.06, 0.01, 0.31, -	as below with amt. of lt grey illite clay
22 - 23	0.004, 0.34, 0.04, 0.45, -	numerous qtz. frags. in matrix, with dk blue-grey clay
21 - 22	- , 0.44, 0.10, 1.01, 0.01	
20 - 21	0.036, 0.24, 0.37, 1.15, 0.05	
19 - 20	- , 0.28, 0.34, 0.66, 0.10	highly weathered md - dk rusty br clay with mn qtz. veining
18 - 19	- , 0.32, 0.40, 1.55, 0.07	amt. of heavily stained qtz. increasing
17 - 18	tr. , 0.68, 0.43, 1.29, 0.06	
16 - 17	tr., 0.88, 0.43, 1.61, 0.04	amt. of lt grey clay increasing
15 - 16	tr., 0.72, 0.52, 1.96, 0.03	
14 - 15	tr., 0.76, 0.98, 2.81, 0.10	tr of sec. Cu
13 - 14	tr., 2.92, 0.71, 4.90, 0.01	
12 - 13	- , 11.90, 0.68, 6.30, 0.01	as below with increasing abund. of brick rd hema. clay; min. zone stops at 13.5
11 - 12	tr., 3.02, 0.47, 4.10, 0.01	
10 - 11	tr., 7.36, 0.51, 3.50, 0.01	heavily oxidized, deeply weathered (bdrk), lt br qtz. with dol. (as below)
9 - 10	tr., 21.54, 0.44, 6.42, 0.01	deeply weathered qtz. containing silic. carb. dol. with abund. sec. Cu, Mn Fe and Pb mins. 9.5 grab sample of mass. tetra.
8 - 9	tr., 75.52, 1.61, 8.56, 0.02	very deeply weathered lt - dk br rusty, sandy clay with abund. sec. Cu and Pb mins.
7 - 8	0.004, 2.22, 0.22, 0.51, tr.	as above
6 - 7	tr., 2.00, 0.29, 0.26, 0.01	
5 - 6	tr., 0.78, 0.16, 0.22, 0.01	
4 - 5	-, 0.76, 0.14, 0.20, 0.01	very deeply weathered lt - dk br (bdrk), sandy clay
3 - 4	-, 0.20, 0.09, 0.16, -	
2 - 3	tr., 0.40, 0.11, 0.09, 0.01	
1 - 2	tr., 0.68, 0.09, 0.18, 0.03	
0 - 1 (metres)	-, 0.30, 0.18, 0.29, 0.02	

Scale 1:100

Figure 6

Trench 6

Massive galena - tetrahedrite

Gossan with secondary mineralization

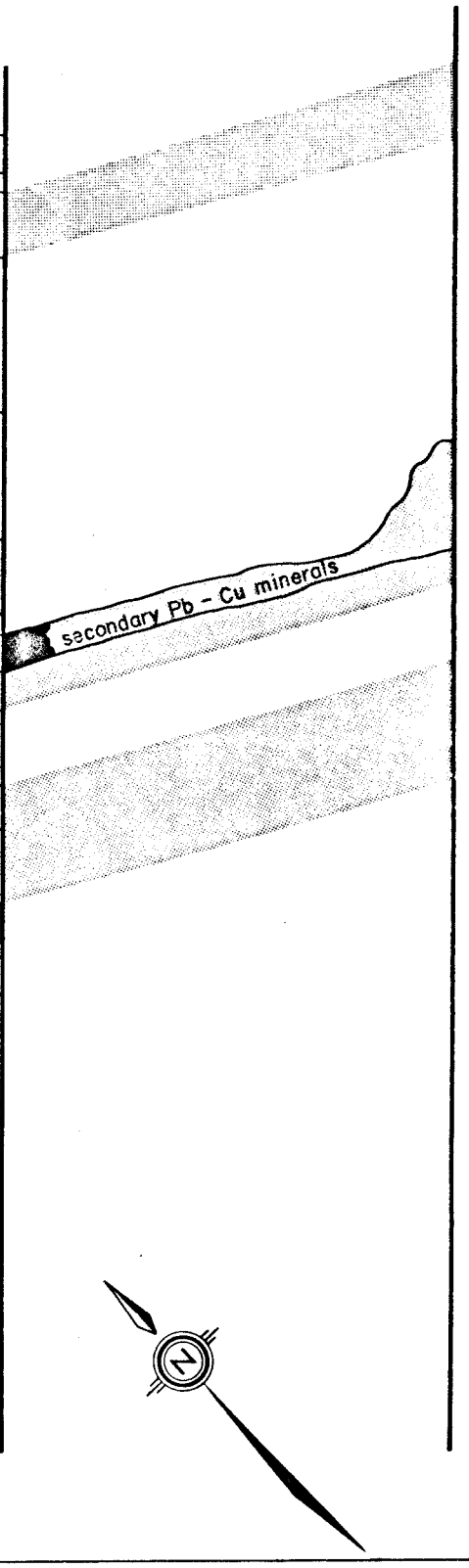
18.31 oz/ton Ag over 8.0 metres which further includes a higher-grade primary zone assaying 48.53 oz/ton Ag over 2 metres. A grab sample of massive tetrahedrite taken from the primary vein yielded 386.76 oz/ton Ag.

Trench #7 was located north of Trench #6 where an abrupt cut-off in soil geochemical values was noted. In this trench, a half-metre wide galena/tetrahedrite vein was noted along with three zones of secondary copper and lead mineralization. While well exposed in the north face of the trench, the massive vein is more deeply weathered in the middle and in the south face of the trench. Assay results and lithologies are plotted in Figure 7. Assay results indicate a combined secondary and primary mineralized zone with a width of 3.9 metres assaying 5.6 oz/ton Ag which includes 0.5 metre of massive galena/tetrahedrite assaying 14.06 oz/ton Ag.

Trench #8, as with Trench #7, was initially located on the upslope side of a strong soil geochemical anomaly. This trench was by far the most spectacular exposed during this program. A massive one-metre wide galena/tetrahedrite vein was uncovered within a 7-metre wide mineralized gossan area with abundant secondary copper mineralization. Figure 8 illustrates the thickness, lithologies, and assay results from this trench. Assay results delineated a broad gossan zone 6 metres in width, assaying 13.45 oz/ton Ag, which includes hte higher-grade massive galena/tetrahedrite vein which ran 42.12 oz/ton Ag over 1 metre.

Trench #10 is the southernmost trench completed during the current program, located on a VLF-E.M. conductor axis. This trench was dug to a very shallow depth due to the presence of permafrost and consequently bedrock was apparently not reached. Samples were collected at one-metre intervals along its length with no significant assay results. Figure 9 illustrates the assay results and sample descriptions from this trench.

Sample Description	Assay Results	Sample Interval (metres)
overburden		
weathered milky white qtz.	tr., 4.52, .14, 3.60, 0.01	17.2 - 17.7
milky qtz with abundant secondary Cu minerals, minor tetra., vein bearing true north	tr., 95.68, 2.41, 22.35, .08	17.0 - 17.2
weathered milky qtz. with minor sec. Cu minerals	tr., 3.16, .10, 1.48, .01	16.1 - 17.0
weathered boxwork qtz. with abundant hema. and limonite; minor chert	tr., 0.26, .20, .60, .22	14.0 - 16.1
milky white qtz. with iron staining along fractures	tr., 4.56, .19, .57, .08	12.3 - 14.0
beige sandy clay with minor qtz. veining (extremely weathered bdrk)	tr., 0.56, .06, .48, .02	11.3 - 12.3
dk. rusty brn. sandy clay with a vert. 50mm wide qtz. vein	tr., 20.66, .88, 3.49, .11	11.0 - 11.3
partially weathered med. to c. crystal. gal. with minor tetra. (vert. vein strike 125°)	tr., 14.06, .16, 29.56, .01	10.5 - 11.0
massive white to grey qtz. coated with minor mal., sl. frac., fracs. iron stained	tr., 2.80, .12, 1.02, .02	10.0 - 10.5
highly weathered bxwk. qtz., bxwk mins. leached away leaving hema. staining and an unidentified botryoidal coating minerals	tr., 2.76, .11, .72, .04	9.0 - 10.0
blk to rusty weathered regolith with possible sec. Pb mins. (suspect rk is weathered carb. dol.	tr., 2.16, .22, 5.11, .06	8.4 - 9.0
milky white vuggy qtz. with iron staining along fracs., minor sec. Cu and Pb mins.	tr., 3.16, .12, 3.30, .03	7.4 - 8.4
dk brn to rusty brn (extremely weathered bdrk) sandy clay		0 - 7.4



Scale 1:100

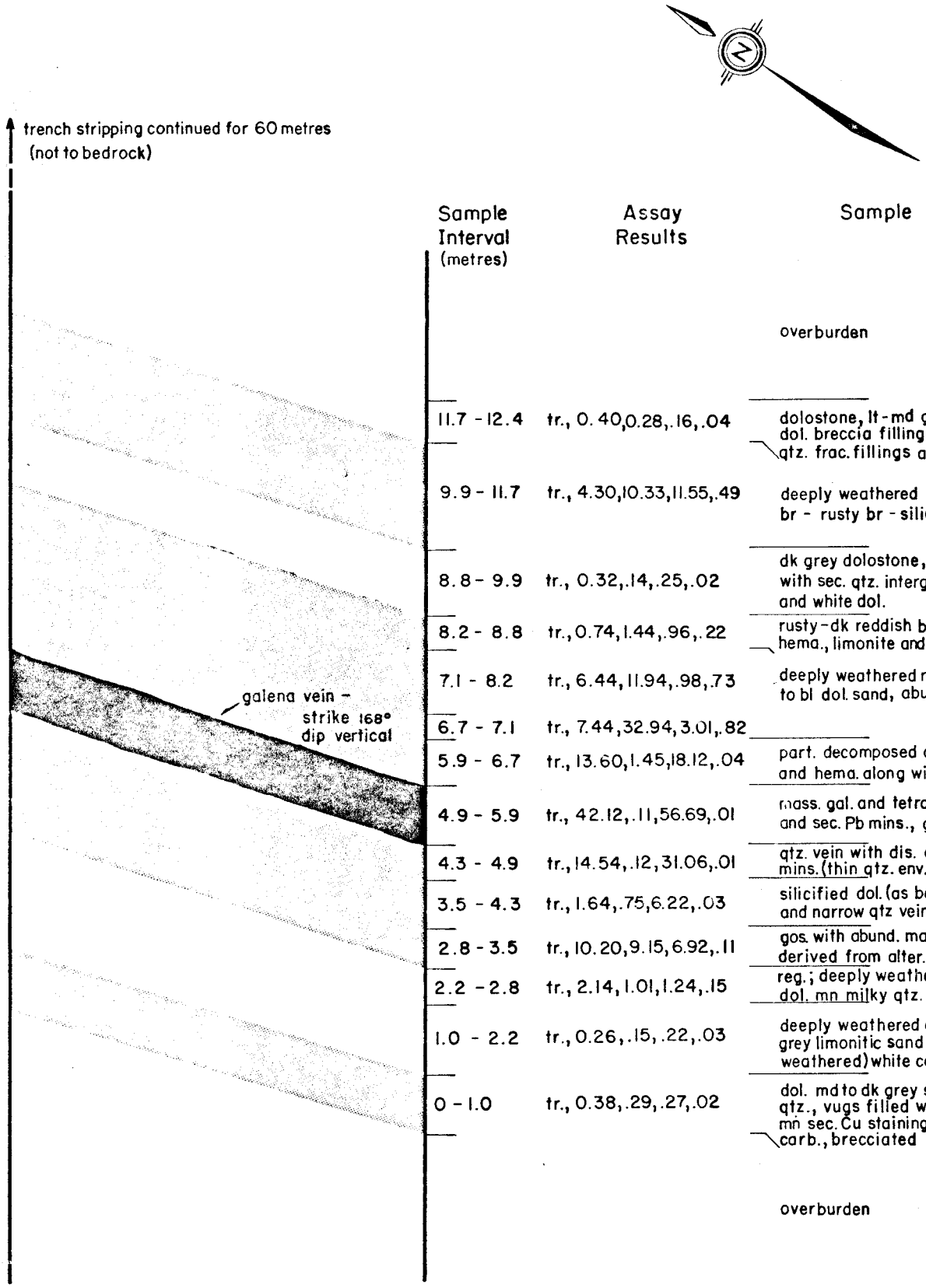
Figure 7

Trench 7

Massive galena - tetrahedrite

Gossan with secondary mineralization

Assay results: Au (oz./ton), Ag (oz/ton), Cu (%), Pb (%), Zn (%)



Sample Interval (metres)	Assay Results	Sample Description
		overburden
11.7 - 12.4	tr., 0.40, 0.28, .16, .04	dolostone, lt-md grey brecciated with white dol. breccia filling, siliceous with sec. clear qtz. frac. fillings and narrow qtz. veins
9.9 - 11.7	tr., 4.30, 10.33, 11.55, .49	deeply weathered reg. (gossan) lt yellowish br - rusty br - silicic, abundant sec. Cu mins.
8.8 - 9.9	tr., 0.32, .14, .25, .02	dk grey dolostone, silicified, brecciated, vuggy with sec. qtz. intergrowth qtz. breccia filling and white dol.
8.2 - 8.8	tr., 0.74, 1.44, .96, .22	rusty-dk reddish br reg.; milky white qtz. frags. hema., limonite and minor mal.
7.1 - 8.2	tr., 6.44, 11.94, .98, .73	deeply weathered reg. composed of md rust br to bl dol. sand, abund. mal.
6.7 - 7.1	tr., 7.44, 32.94, 3.01, .82	
5.9 - 6.7	tr., 13.60, 1.45, 18.12, .04	part. decomposed qtz. vein, abund. limonite and hema. along with sec. Cu (envelope)
4.9 - 5.9	tr., 42.12, .11, 56.69, .01	mass. gal. and tetra. mn mal., mn qtz. frags. and sec. Pb mins., gal. lam.
4.3 - 4.9	tr., 14.54, .12, 31.06, .01	qtz. vein with dis. gal., tetra. and sec. Pb mins. (thin qtz. env. on edge of gal. vein)
3.5 - 4.3	tr., 1.64, .75, 6.22, .03	silicified dol. (as below) with abund. sec. Cu and narrow qtz veins
2.8 - 3.5	tr., 10.20, 9.15, 6.92, .11	gos. with abund. mal. limonite qtz. prob. derived from alter. of dol.
2.2 - 2.8	tr., 2.14, 1.01, 1.24, .15	reg.; deeply weathered derived from a sandy dol. mn milky qtz. debris
1.0 - 2.2	tr., 0.26, .15, .22, .03	deeply weathered dolostone — weathers to grey limonitic sand (as below but deeply weathered) white cal., silica breccia filling
0 - 1.0	tr., 0.38, .29, .27, .02	dol. md to dk grey silicified vuggy milky white qtz., vugs filled with clear euhedral qtz. mn sec. Cu staining, limonite staining, carb., brecciated
		overburden

Scale 1: 100

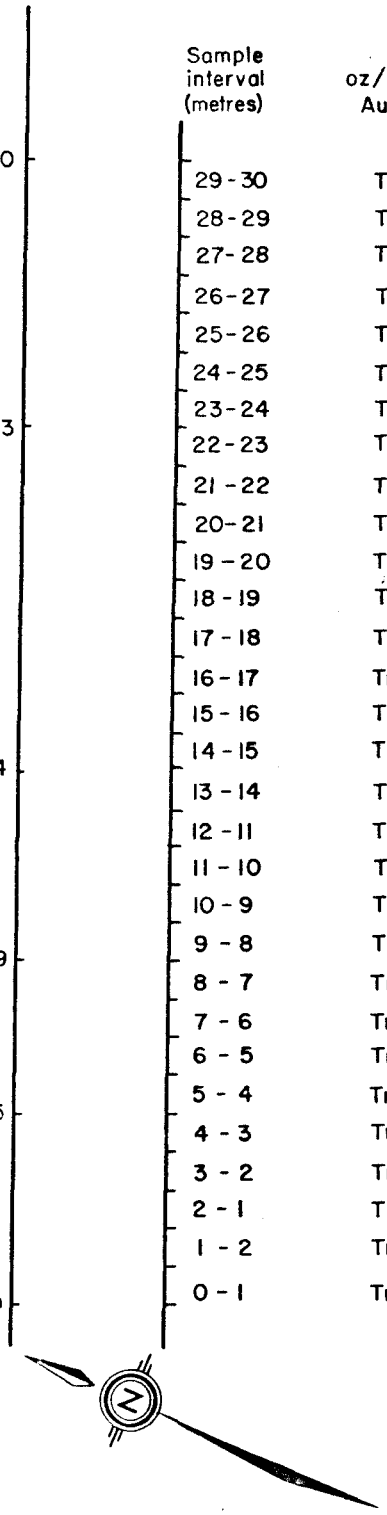
Figure 8

Trench 8

Massive galena - tetrahedrite

Gossan with secondary mineralization

Assay results: Au (oz/ton), Ag (oz/ton), Cu(%), Pb(%), Zn(%)



Sample interval (metres)	Assay Results oz/T Au	oz/T Ag	% Cu	% Pb	% Zn	Sample Description
						overburden
29-30	Tr	0.10	0.01	0.04	0.02	
28-29	Tr	0.02	0.01	0.04	0.02	rubble composed primarily of black, siliceous siltstone and black chert with occasional frags of light to medium grey, fine grained dolostone, all in brown sandy matrix.
27-28	Tr	0.10	0.01	0.04	0.02	
26-27	Tr	0.04	0.01	0.04	0.02	
25-26	Tr	0.10	0.01	0.04	0.01	
24-25	Tr	0.10	0.01	0.03	0.05	
23-24	Tr	0.12	0.01	0.03	0.08	
22-23	Tr	0.14	0.01	0.03	0.05	
21-22	Tr	0.12	0.01	0.03	0.12	oxidized, gossanous zone composed of abundant, angular frags of white, crystalline, Fe bearing quartz and some frags of medium grey, highly leached dolostone, all in brown sandy matrix. Iron in quartz as geothite, no sulphide seen.
20-21	Tr	0.10	0.01	0.08	0.27	
19-20	Tr	0.20	0.01	0.08	0.30	
18-19	Tr	0.18	0.01	0.05	0.23	
17-18	Tr	0.08	0.01	0.06	0.25	
16-17	Tr	0.22	Tr	0.05	0.21	
15-16	Tr	0.26	Tr	0.04	0.22	
14-15	Tr	0.22	Tr	0.04	0.11	
13-14	Tr	0.10	Tr	0.04	0.02	rubble composed primarily of black, siliceous siltstone and black chert with some frags of light to medium grey, fine grained dolostone all in a brown, sandy matrix
12-11	Tr	0.18	Tr	0.04	0.02	
11-10	Tr	0.12	0.01	0.03	0.02	
10-9	Tr	0.12	0.01	0.04	0.02	
9-8	Tr	0.04	0.01	0.04	0.02	
8-7	Tr	0.14	0.01	0.03	0.06	oxidized, gossanous zone composed of abundant, angular frags of white, crystalline, Fe bearing quartz and some frags of medium grey, highly leached dolostone all in brown, gossanous sandy matrix.
7-6	Tr	0.16	0.02	0.04	0.20	
6-5	Tr	0.02	0.03	0.04	0.26	
5-4	Tr	0.10	0.04	0.03	0.44	
4-3	Tr	0.06	0.02	0.03	0.24	rubble composed primarily of black chert (some laminated, some brecciated) and black, siliceous, siltstone with frags of dolostone, fine grained, light to medium grey, fractured, all in brown, sandy matrix.
3-2	Tr	0.08	0.01	0.03	0.17	
2-1	Tr	0.02	0.01	0.03	0.11	
1-2	Tr	0.04	0.01	0.03	0.05	
0-1	Tr	0.12	0.01	0.03	0.08	overburden

Note: trench was quite shallow, bedrock was apparently not reached.

Scale 1:200

Figure 9
Trench 10

Assay results: Au (oz/T), Ag (oz/T), Cu(%), Pb(%), Zn(%)

GEOPHYSICAL SURVEYS

Ground magnetic and VLF-E.M. surveys were carried out on the property. The magnetic survey utilized a one-gamma GeoMetrics G826A proton magnetometer. Readings were taken at 30-metre station intervals. This survey was discontinued after two lines were completed across the property from Orma Hill to Mike Hill, because of the weak magnetic responses. Variations in magnetic readings amounted to only 30 gammas with no sharply defined anomalies.

The VLF-E.M. survey was completed using a Geonics EM-16 unit. This survey was carried out using a 30-metre station interval along grid lines. The results are presented in profile format on Maps 3 and 4, and in the Fraser Filter contoured format on Maps 5 and 6.

Mr. Edward Rockel, a mining geophysicist, assisted in the interpretation of the data for Orma Hill. His report is presented as Appendix B. The data for Mike Hill were interpreted by the authors.

The most salient features of the survey conducted over Orma Hill are the correlation between known veins and VLF-E.M. conductors, and the interpretation of the downward continuation of these veins. The VLF-E.M. data also confirm the extent and en echelon nature of the veins.

Strong conductors exist in the southern end of the surveyed area on Orma Hill. The VLF-E.M. grid should be extended to the south to delineate the extension of these conductors.

On Mike Hill, the VLF-E.M. response is not as strong as on Orma Hill, due partly to the masking effect caused by the overlying shale and chert units. Nevertheless, the VLF-E.M. conductors exhibit the same en echelon nature as that seen on Orma Hill. No direct correlation exists, however, between the known mineralization on Mike Hill and the VLF-E.M. conductors. This could be a reflection of the amount of exploratory work conducted on Mike Hill versus Orma Hill.

A more detailed VLF-E.M. survey should be completed over Mike Hill, as was completed on Orma Hill, in order to better define the conductors present.

A VLF-E.M. reconnaissance line was completed from the airstrip, across the valley to the east of Orma Hill, to determine if any strong conductors similar to those delineated on Orma Hill existed in this area. Figure 10 presents the results from this survey in profile format. Readings were taken every 30 metres along a compass line.

A strong conductor is present at the airstrip, corresponding to the steepness of the hill slope and to a north-south trending fault. Only very weak VLF-E.M. conductors were delineated across the valley. These probably reflect the existence of conductive clays. No follow-up work is recommended.

GEOCHEMICAL SURVEY

General

The geochemical survey carried out on the property this summer consisted of extending the previous soil geochemical grid and assaying rock samples collected from trenches, as previously mentioned.

The soil sample grid was extended across the property in order to define the full extent of previously identified geochemical anomalies and to detail the geochemical responses of geophysical anomalies detected in previous surveys. A total of approximately 1300 soil samples were collected and forwarded to Loring Laboratories Ltd. in Calgary for analysis for copper, lead, zinc, and silver.

These analytical results are presented in Appendix A. A series of maps have been contoured for Ag, Pb, Cu, and Zn (Maps 7 - 14), at a scale of 1:2500 including the analytical data from previous geochemical surveys.

A number of obvious features are evident from the contoured data with a few of the more salient points discussed below.

The geochemical signatures for the Mike Hill and the Orma Hill areas are radically different. This suggests that style and type of mineralization to be expected in each area may vary considerably.

Solifluction effects have been important in the down-slope migration and scatter of the geochemical values.

Orma Hill

The Orma Hill geochemistry (see Maps 7 - 10) has outlined an extremely strong, north trending multi-element (Ag, Pb, Cu) anomaly. This anomaly appears to have been faulted off along Carroll Creek to the north, and by an east-west fault to the south.

Solifluction effects, as well as down-slope migration of metals, have apparently displaced the geochemical signature in respect to the mineralization. This has been substantiated by the trenching program conducted in concordance with the geochemical survey.

Another multi-element anomaly (Pb, Zn, Cu, Ag) has been outlined at the southern end of the surveyed area. This may reflect an extension to the south of the mineralization outlined on Orma Hill. The geochemical grid should be extended to the south to determine if this extension exists.

The Orma Hill zone itself has virtually no zinc geochemical signature. High zinc, silver, lead values do exist in the northern sector of the grid, north of Carroll Creek. These anomalies remain unexplained and suggest that further work should be conducted in this area to determine the source.

Within the Orma Hill zone, a steeply dipping north-south epithermal vein system appears to be the primary source of the geochemical anomaly. This mineralization on Orma Hill is probably contemporaneous with faulting and folding of the Orma Anticline in Late Cretaceous to Early Tertiary time. The extensive brecciation, faulting, and folding provided the ground preparation for replacement veins developed along the vertical faults in the area.

The metallic minerals at Orma Hill include galena and tetrahedrite, along with secondary malachite, axurite, smithsonite, and sulfosalts. Gangue minerals include pyrite, quartz, and minor barite. Alteration consists of extensive silicification and argillic alteration.

Mike Hill

As previously mentioned, the geochemistry of Mike Hill is considerably different from that on Orma Hill. High zinc values predominate. Other metal values are more restricted. If this is indeed a fracture-controlled, epithermal vein system, the presence of strong vertical metal zonation may be expected.

The possible orientation of fracture-controlled mineralization on the basis of geochemical data is less obvious than for Orma Hill. The main direction appears to be east-west, transecting the top of Mike Hill. This trend is reflected by two multi-element anomalies (Cu, Pb, Zn, Ag). One anomalous zone is at the northern end of the grid, and the best zone

is on top of Mike Hill fanning off to the east, open in this direction. Further geochemical sampling is recommended in this area, in order to determine the extent of this anomalous zone.

One extremely anomalous soil geochemical sample located on L 16S 8+00W returned 326.5 ppm Ag (9.52 oz/ton Ag), and 560 ppm Cu. This single sample site anomaly requires further investigation in the form of geological as well as geochemical sampling.

The geochemical sampling of the geophysical anomalies detected in previous surveys returned negative results. This may be due to the shale unit capping Mike Hill in these areas. These geophysical anomalies cannot, therefore, be discounted on the geochemical results alone. A diamond drilling and trenching program should be initiated to test the significance of these geophysical (gravity, VLF-E.M., and resistivity) anomalies detected and to determine the source of the soil geochemical anomalies previously mentioned.

SUMMARY AND RECOMMENDATIONS

A field program consisting of geologic mapping, geochemical sampling, geophysical surveying, and trenching was conducted on the Rusty Springs property in the Yukon Territory, during June and July 1982. A new geological compilation includes surface mapping, trench examinations, and subsurface mapping based on an evaluation of diamond drill core data. The geochemical survey consisted of extensive soil sampling as well as channel sampling of various trenches completed this year. Ground magnetic and VLF-E.M. surveys were completed in order to provide additional data for geologic mapping and to extend mineralized zones mapped in the area.

The objectives of this exploration program were to define the nature and extent of the copper, lead, zinc, silver, and gold mineralization present and to determine whether the results were sufficiently encouraging to recommend a diamond drill program. The nature of the mineralization present justifies the use of an epithermal, vein-type geologic model as a working hypothesis for interpreting the structure and ore mineralogy of the deposit. Assay results provide encouragement that the veins, because of their high silver content, may have economic significance even in this remote location. The VLF-E.M. data have aided greatly in determining the orientation and extent of vein systems.

Based on the results of the exploration work conducted this field season, there is sufficient encouragement to justify a diamond drill program. Geological and geophysical data concerning the nature and extent of this mineralization provide specific drill targets. Assay results indicate the potential for both high-grade lode deposits and supergene-enriched ore bodies to exist in this area.

Approximately 610 metres (2000 feet) of NQ diamond drilling is proposed to test both the conductors and the mineralization encountered in trenching thus far. Estimated cost for such a program is $250,000.

A P P E N D I X A

TRENCH SAMPLE DESCRIPTIONS

TRENCH #2

0.00-0.23 milky white quartz, boxwork present in edge of vein, limonite and hematite staining fractures.

0.23-2.50 rusty brown to dark brown to grey. fine sandy clay, minor quartz stringers 3 - 5 cm wide (weathered bedrock).

2.50-3.50 milky white quartz with boxwork present on the edge of the vein. fractures within the quartz are infilled with hematite-stained mud. the quartz is vuggy with slight shearing present at 2.93, movement up to the east.

3.50-4.50 milky white quartz. fractures within the quartz are infilled with hematite-stained mud. silicified limestone breccia incorporated within the quartz vein.

4.50-5.50 milky white quartz, fractures within the quartz are infilled with hematite-stained mud.

5.50-6.10 deeply weathered sandy bedrock with minor quartz veins up to 5 cm wide. malachite staining on the quartz adjacent to the galena vein.

6.10-6.27

quartz breccia fragments	20%
tetrahedrite	50%
galena	30%

6.27-6.90 quartz breccia with galena filling the open space vugs in the quartz vein. quartz 60%; galena and tetrahedrite 40%. trace pyrite and secondary copper.

6.90-7.60 milky white quartz, minor tetrahedrite along the contact with the galena vein. secondary iron staining along fractures in the quartz. 20% tetrahedrite and galena as little stringers and blebs throughout the quartz.

7.60-8.60 milky, well weathered quartz with minor secondary copper. iron staining along fracture surfaces, slightly vuggy.

8.60-9.60 massive, milky white quartz, iron staining along fractures, slightly vuggy.

9.60-18.60 (highly weathered bedrock) light brown to dark brown sand with rusty white quartz veins up to 15 cm wide.

TRENCH #3

0.0 - 2.5	Deeply weathered dolomite and gossanous sand containing abundant quartz fragments.
2.5 - 3.0	Quartz fragments in a gossanous sand.
3.0 - 6.0	Rusty coloured sand with fine white quartz fragments. Two 2cm wide quartz veins from 5.7 to 6.0 metres.
6.0 - 6.5	Quartz vein, decomposed, iron stained.
6.5 - 8.0	Deeply weathered dark grey to black dolomite.
8.0 - 9.0	Decomposed quartz vein.
9.0 - 12.0	Decomposed quartz vein, gossanous, extremely fractured (roughly on strike with the vein uncovered in Trench #2).
12.0 - 14.0	Decomposed quartz vein.
14.0 - 15.0	Deeply weathered dark grey dolomite with clay beds.
15.0 - 24.0	Deeply weathered medium grey dolomite with black clay bands. 4 cm wide calcite vein at 21 m, dolomite is iron stained.

TRENCH #6

0- 7	light to medium rusty brown sandy clay (very deeply weathered bedrock).
7- 8	light to medium rusty brown sandy clay with minor secondary Cu and Pb minerals.
8- 9	light to medium rusty brown sandy clay with abundant malachite and plumbojarisite.
9.5	grab sample — massive tetrahedrite.
9-10	weathered quartz vein with silicified carbonaceous limestone, with abundant secondary copper staining, minor plumbojarisite and iron staining.
10-11	heavily oxidized deeply weathered quartz with abundant secondary copper.
11-14	heavily oxidized deeply weathered quartz with abundant brick-red hematitic clay with abundant secondary copper staining.
14-15	deeply weathered medium to dark brown clay with minor quartz veins.
15-16	deeply weathered medium to dark brown clay with minor quartz veins and trace of secondary copper.
16-20	deeply weathered medium to dark brown clay and light grey clay, with minor quartz veins and a trace of secondary copper.
20-23	deeply weathered medium to dark brown clay and light grey clay, with numerous quartz fragments in a dark bluish-grey clay.
23-24	deeply weathered medium to dark brown clay with a large amount of light grey illite clay.
24-25	light grey illite clay.

TRENCH #7

0.00- 7.40	dark brown rusty sandy soil (deeply weathered bedrock)
7.40- 8.40	milky white quartz, hematite staining along fractures and vugs. weak malachite and plumbojarisite staining.
8.40- 9.00	deeply weathered black to rusty bedrock. minor secondary Pb minerals; suspect this is a highly weathered carbonaceous dolomite.
9.00-10.00	weathered boxwork quartz, hematite stained with an unidentified botroidal material coating the cavities.
10.00-10.50	massive white to grey quartz, slightly fractured with the fractures filled with hematite.
10.50-11.00	partly weathered medium to coarsely crystalline galena with minor quartz and copper staining and tetrahedrite.
11.00-11.30	dark rusty brown sandy clay with a 50mm wide vertical quartz vein.
11.30-12.30	beige sandy clay with minor quartz veining.
12.30-14.00	milky white quartz with hematite filling the fractures.
14.00-16.10	weathered boxwork quartz with abundant hematite and limonite, minor chert.
16.10-17.00	weathered milky quartz with minor secondary copper minerals.
17.00-17.20	milky quartz with abundant secondary copper minerals, minor tetrahedrite.
17.20-17.70	weathered milky white quartz.

TRENCH #8

0.0- 1.0	dolostone, medium to dark grey, silicified. milky white quartz with the vugs filled with clear euhedral quartz crystals. minor secondary copper and limonite staining, carbonaceous, brecciated.
1.0- 2.2	deeply weathered dolostone, weathers to a grey limonitic sand; white calcite and silica breccia filling.
2.2- 2.8	regolith, deeply weathered, derived from a sandy dolomite with minor milky quartz debris.
2.8- 3.5	gossan with abundant malachite and limonite and quartz, probably derived from the alteration of the adjacent dolomite.
3.5- 4.3	silicified dolomite with abundant secondary copper, narrow quartz veins present. vugs filled with clear euhedral quartz.
4.3- 4.9	thin quartz envelope of the main galena vein; quartz with disseminated galena, tetrahedrite and secondary plumbojarisite.
4.9- 5.9	massive galena and tetrahedrite, minor secondary copper staining, minor quartz fragments and plumbojarisite; the galena is crudely laminated.
5.9- 6.7	quartz envelope; partially decomposed quartz vein, abundant hematite and limonite along with secondary copper minerals.
6.7- 8.2	deeply weathered regolith composed of medium rust-brown to black dolomitic sand, silica 10%, abundant secondary copper minerals.
8.2- 8.8	rusty to dark reddish brown regolith with milky white quartz fragments; hematite, limonite, and minor secondary copper minerals.
8.8- 9.9	dark grey dolostone, silicified, brecciated; vuggy with secondary quartz intergrowth; quartz breccia filling and minor white dolomite.
9.9-11.7	deeply weathered regolith (gossan), light yellowish brown to rusty brown, with abundant secondary copper minerals.
11.7-12.4	dolostone, light to medium grey, brecciated, with white dolomitic breccia filling, siliceous, with secondary clear quartz fracture filling and narrow quartz veins.

TRENCH #10

0 - 5	Rubble composed primarily of black chert and black siliceous siltstone in a brown sand matrix.
5 - 9	Oxidized gossanous zone, composed of abundant angular fragments of white crystalline pyritic quartz in a sandy matrix. Some fragments of medium grey, highly leached dolomite in a brown gossanous sandy matrix.
9 - 14	Rubble composed primarily of black siliceous siltstone and chert with some fragments of light to medium grey, finely crystalline dolomite.
14 - 23	Oxidized gossanous zone, composed of abundant angular fragments of white crystalline, iron stained quartz, and some fragments of medium grey, highly leached dolomite in a brown sandy matrix.
23 - 30	Rubble composed primarily of black, siliceous siltstone and chert with occasional fragments of light to medium grey, fine grained dolomite in a brown sandy matrix.

TRENCH SAMPLE ASSAY RESULTS

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Jim Davis

File No. 23739
Date July 28, 1982
Samples Chip
Project: Y-81-8
Rusty Springs

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER	% Cu	% Pb	% Zn
T-2					
0-0.23	Trace	1.54	.02	.11	.01
.23-2.5	Trace	.86	.20	.88	.07
2.5- 3.5	.004	.82	.03	.15	.01
3.5- 4.5	Trace	.56	.03	.16	.01
4.5- 5.5	Trace	.64	.10	.51	.04
5.5- 6.1	Trace	33.90	.22	3.20	.02
6.1- 6.27	Trace	69.18	3.08	61.12	.27
6.27-6.9	Trace	22.78	.36	30.56	.02
6.9- 7.6	Trace	37.86	1.93	13.88	.22
7.6- 8.6	Trace	3.50	.05	.43	.01
8.6- 9.6	Trace	.28	.02	.11	.01
9.6-10.6	Trace	.76	.02	.13	.02
10.6-11.6	Trace	.46	.01	.09	.02
11.6-12.6	Trace	.10	.01	.08	.02
12.6-13.6	Trace	.30	.02	.12	.04
13.6-14.6	Trace	.32	.04	.15	.02
14.6-15.6	.102	4.39	.21	.59	.17
15.6-16.6	Trace	.24	.02	.11	.04
16.6-17.6	Trace	.58	.02	.10	.03
17.6-18.6	Trace	.20	.02	.07	.02

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.
Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Jim Davis

File No. 23739
Date July 28, 1982
Samples Chip
Project: Y-81-8
Rusty Springs

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER	% Cu	% Pb	% Zn
T-2					
CA-1	Trace	51.96	1.15	16.62	.07
CA-2	Trace	51.80	1.50	63.41	.10
CA-3	Trace	71.66	2.18	34.44	.18
CA-4	Trace	20.78	.08	64.80	.01
CA-5	Trace	16.36	.04	67.10	.01
T-7					
7.4- 8.4	Trace	3.16	.12	3.30	.03
8.4- 9.0	Trace	2.16	.22	5.11	.06
9.0-10.0	Trace	2.76	.11	.72	.04
10.0-10.5	Trace	2.80	.12	1.02	.02

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I jects Retained one month.
Pulps Retained one month
t less specific arrangements
r de in advance.

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Jim Davis

File No. 23712
Date July 27, 1982
Samples Chip
Project: Y-81-8
Rusty Springs

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER	% Cu	% Pb	% Zn
T-6					
0- 1	Trace	.30	.18	.29	.02
3- 4	Trace	.20	.09	.16	Trace
4- 5	Trace	.76	.14	.20	.01
12-13	Trace	11.90	.68	6.30	.01
17-18	Trace	.68	.43	1.29	.06
18-19	Trace	.32	.40	1.55	.07
19-20	Trace	.28	.34	.66	.10
20-21	.036	.24	.37	1.15	.05
21-22	Trace	.44	.10	1.01	.01
22-23	.004	.34	.04	.45	Trace
23-24	Trace	.06	.01	.31	Trace
24-25	Trace	.08	Trace	.04	Trace

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Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Jim Davis

File No. 23735
Date July 28, 1982
Samples Chip
Project: Y-81-8
Rusty Springs

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER	% Cu	% Pb	% Zn
T-6					
1- 2	Trace	.68	.09	.18	.03
2- 3	Trace	.40	.11	.09	.01
5- 6	Trace	.78	.16	.22	.01
6- 7	Trace	2.00	.29	.26	.01
7- 8	.004	2.22	.22	.51	Trace
8- 9	Trace	75.52	1.61	8.56	.02
9-10	Trace	21.54	.44	6.42	.01
10-11	Trace	7.36	.51	3.50	.01
11-12	Trace	3.02	.47	4.10	.01
13-14	Trace	2.92	.71	4.90	.01
14-15	Trace	.76	.98	2.81	.10
15-16	Trace	.72	.52	1.96	.03
16-17	Trace	.88	.43	1.61	.04
T-7					
10.5-11.0	Trace	14.06	.16	29.56	.01
11.0-11.3	Trace	20.66	.88	3.49	.11
11.3-12.3	Trace	.56	.06	.48	.02
12.3-14.0	Trace	4.56	.19	.57	.08
14.0-16.1	Trace	.26	.20	.60	.22

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.
Pulps Retained one month
unless specific arrangements
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Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Jim Davis

File No. 23735
Date July 28, 1982
Samples Chip
Project: Y-81-8
Rusty Springs

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER	% Cu	% Pb	% Zn
T-7 Cont'd					
16.1-17.0	Trace	3.16	.10	1.48	.01
17.0-17.2	Trace	95.68	2.41	22.35	.08
17.2-17.7	Trace	4.52	.14	3.60	.01
T-8					
0-1	Trace	.38	.29	.27	.02
1- 2.2	Trace	.26	.15	.22	.03
2.2- 2.8	Trace	2.14	1.01	1.24	.15
2.8- 3.5	Trace	10.20	9.15	6.92	.11
3.5- 4.3	Trace	1.64	.75	6.22	.03
4.3- 4.9	Trace	14.54	.12	31.06	.01
4.9- 5.9	Trace	42.12	.11	56.69	.01
5.9- 6.7	Trace	13.60	1.45	18.12	.04
6.7- 7.1	Trace	7.44	32.94	3.01	.82
7.1- 8.2	Trace	6.44	11.94	.98	.73
8.1- 8.8	Trace	.74	1.44	.96	.22
8.8- 9.9	Trace	.32	.14	.25	.02
9.9-11.7	Trace	4.30	10.33	11.55	.49
11.7-12.4	Trace	.40	.28	.16	.04

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.
Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Jim Davis

File No. 23735
Date July 28, 1982
Samples Chip
Project: Y-81-8
Rusty Springs

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER	% Cu	% Pb	% Zn
T-2					
9.5 Grab Sample	Trace	386.76	13.36	22.15	.52

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.
Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Jim Davis

File No. 23739
Date September 24, 1982
Samples Chip
Project: Y-81-8
Rusty Springs

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER
"CORRECTED"		
T-2		
14.6-15.6	Trace	.50

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: TAIGA CONSULTANTS LTD.,
1300 - 8th Street S.W.,
Calgary, Alta. T2R 1B2

ATTN: Jim Davis

File No. 24008
Date October 19, 1982
Samples Sandy Rock

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ/TON Gold	OZ/TON Silver	% Cu	% Pb	% Zn
"Sandy Rock"					
3-1	Trace	.44	.07	.18	.03
3-2	Trace	.40	.14	.33	.05
3-3	Trace	.48	.08	.26	.04
3-4	Trace	.50	.12	.36	.04
3-5	Trace	.84	.41	.57	.07
3-6	Trace	.82	.40	.50	.08
3-7	Trace	.46	.13	.28	.05
3-8	Trace	.70	.17	.35	.04
3-9	Trace	.46	.19	.45	.05
3-10	Trace	.44	.07	.33	.04
3-11	Trace	.70	.14	.39	.04
3-12	Trace	1.04	.19	.40	.04
3-13	Trace	.72	.24	.36	.05
3-14	Trace	.30	.03	.08	.03
3-15	Trace	.38	.03	.10	.04
3-16	Trace	.18	.02	.07	.01
3-17	Trace	.20	.02	.07	.01
3-18	Trace	.24	.03	.07	.01
3-19	Trace	.14	.03	.06	.04
3-20	Trace	.70	.04	.09	.02

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

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Pulps Retained one month unless specific arrangements ade in advance.

Assayer

To: TAIGA CONSULTANTS LTD.,
1300 - 8th Street S.W.,
Calgary, Alta. T2R 1B2

ATTN: Jim Davis

File No. 24008
Date October 19, 1982
Samples Sandy Rock

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ/TON Gold	OZ/TON Silver	% Cu	% Pb	% Zn
3-21	Trace	.64	.04	.12	.03
3-22	Trace	.38	.02	.07	.01
3-23	Trace	.28	.03	.09	.02
10-1	Trace	.12	.01	.03	.08
10-2	Trace	.04	.01	.03	.05
10-3	Trace	.02	.01	.03	.11
10-4	Trace	.08	.01	.03	.17
10-5	Trace	.06	.02	.03	.24
10-6	Trace	.10	.04	.03	.44
10-7	Trace	.02	.03	.04	.26
10-8	Trace	.16	.02	.04	.20
10-9	Trace	.14	.01	.03	.06
10-10	Trace	.04	.01	.04	.02
10-11	Trace	.12	.01	.04	.02
10-12	Trace	.12	.01	.03	.02
10-13	Trace	.18	Trace	.04	.02
10-14	Trace	.10	Trace	.04	.02
10-15	Trace	.22	Trace	.04	.11
10-16	Trace	.26	Trace	.04	.22
10-17	Trace	.22	Trace	.05	.21
10-18	Trace	.08	.01	.06	.25

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

jects Retained one month.
Pulps Retained one month
nless specific arrangements
ide in advance.

Assayer

To: TAIGA CONSULTANTS LTD.,
1300 - 8th Street S.W.,
Calgary, Alta. T2R 1B2

ATTN: Jim Davis

File No. 24008
Date October 19, 1982
Samples Sandy Rock

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ/TON Gold	OZ/TON Silver	% Cu	% Pb	% Zn
10-19	Trace	.18	.01	.05	.23
10-20	Trace	.20	.01	.08	.30
10-21	Trace	.10	.01	.08	.27
10-22	Trace	.12	.01	.03	.12
10-23	Trace	.14	.01	.03	.05
10-24	Trace	.12	.01	.03	.08
10-25	Trace	.10	.01	.03	.05
10-26	Trace	.10	.01	.04	.01
10-27	Trace	.04	.01	.04	.02
10-28	Trace	.10	.01	.04	.02
10-29	Trace	.02	.01	.04	.02
10-30	Trace	.10	.01	.04	.02

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.
Pulps Retained one month unless specific arrangements made in advance.

Assayer

SOIL GEOCHEMICAL ANALYTICAL RESULTS

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23716
Date July 26, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON SILVER	% Pb	% Zn
"Soil Samples"			
M-L 7S- 7E	-	-	.10
M-L10S-10E	-	.21	-
23E	-	-	.16
M-L11S-12E	-	-	.12
13E	-	-	.14
14E	-	-	.12
21E	-	-	.14
22E	-	-	.25
23E	-	-	.17
M-L15S- 9E	-	-	.12
15E	-	-	.16
16E	-	.13	.24
17E	-	-	.30
18E	-	.11	.43
19E	-	-	.27
20E	-	-	.14
21E	-	-	.25
22E	-	-	.16
M-L16S- 8W	9.52	-	-

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.
Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23716
Date July 26, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
"Soil Samples"				
M-L 7S- 4E	12	54	152	0.7
5E	16	93	210	0.8
6E	32	415	475	1.4
7E	51	940	1000+*	2.1
8E	18	122	255	0.9
9E	29	235	985	1.2
10E	25	77	365	1.0
11E	24	151	460	0.9
12E	17	59	235	0.8
13E	26	24	310	1.0
14E	94	36	205	1.1
15E	24	72	380	0.9
16E	25	102	258	2.4
17E	49	71	178	1.6
18E	128	220	960	2.0
19E	154	140	890	2.4
20E	151	81	745	2.5
21E	132	49	375	1.6
22E	79	65	415	1.8
23E	93	33	172	1.4
M-L10S- 4E	42	160	202	1.5
5E	9	40	53	0.8
6E	47	865	875	1.6
7E	16	95	265	1.0
8E	9	87	155	0.6
9E	25	255	665	1.1
10E	38	1000+*	795	1.5
11E	20	75	405	1.2
12E	31	176	620	1.0

(*) = Assayed

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ATTN: Mr. Netolitzky

File No. 23716
Date July 26, 1982
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Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
M-L10S-13E	33	92	285	1.4
14E	17	72	315	1.2
15E	78	180	635	2.6
16E	35	104	620	1.8
17E	230	122	980	4.0
18E	64	90	440	2.2
19E	152	93	585	2.6
20E	395	42	345	2.0
21E	133	106	315	1.4
22E	131	96	455	1.5
23E	320	335	1000+*	4.9
M-L11S- 6E	42	455	755	1.6
7E	14	35	188	0.5
8E	19	171	252	0.7
9E	15	21	138	0.5
10E	41	157	640	1.1
11E	24	67	380	0.5
12E	96	320	1000+*	2.1
13E	143	335	1000+*	2.8
14E	137	186	1000+*	4.5
15E	124	69	315	2.2
16E	25	32	96	0.8
17E	89	93	515	2.3
18E	186	79	455	2.9
19E	141	87	590	2.5
20E	81	133	495	1.4
21E	178	485	1000+*	3.8
22E	235	740	1000+*	5.2
23E	177	435	1000+*	3.0
M-L15S- 8E	54	675	575	1.0
9E	50	166	1000+*	0.9

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ATTN: Mr. Netolitzky

File No. 23716
Date July 26, 1982
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Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
M-L15S-10E	17	34	68	0.6
11E	22	198	59	0.4
12E	27	101	204	1.0
13E	13	24	97	0.6
14E	98	240	565	1.9
15E	240	890	1000+*	6.0
16E	275	1000+*	1000+*	7.8
17E	310	860	1000+*	11.5
18E	575	1000+*	1000+*	9.0
19E	250	940	1000+*	5.8
20E	195	240	1000+*	2.7
21E	405	215	1000+*	3.5
22E	137	176	1000+*	2.0
23E	82	97	735	0.9
24E	62	102	560	1.1
25E	57	56	360	1.2
26E	69	70	470	1.2
27E	55	48	355	0.8
M-L16S- 6W	13	345	202	1.6
7W	15	82	138	0.8
8W	560	85	270	30.0+*
9W	16	106	194	1.0
10W	19	95	156	1.1
11W	14	72	135	1.0
12W	23	88	155	.13

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File No. 23717
Date July 26, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
"Soil Samples"				
M-L 2S- 6W	36	69	270	0.8
7W	35	75	290	1.0
8W	41	81	385	0.8
9W	42	138	510	1.5
10W	37	185	515	1.0
11W	29	163	420	1.2
12W	14	78	195	1.4
M-L 3S- 1W	31	142	152	1.0
2W	30	240	280	1.0
3W	18	140	200	1.2
4W	50	100	440	1.0
5W	36	78	370	1.2
6W	31	118	540	1.9
7W	34	145	550	0.9
8W	44	210	725	1.1
9W	12	68	66	1.4
10W	52	245	595	1.0
11W	46	210	570	1.4
12W	19	99	186	1.0
M-L 4S- 9E	56	635	1000+*	2.4
10E	62	605	1000+*	1.9
11E	17	188	485	1.5
12E	87	130	1000+*	1.2
13E	47	232	980	1.0
14E	36	112	525	1.0
15E	26	34	128	0.6
M-L12S- 9E	36	48	302	0.5
10E	107	218	960	1.0
11E	26	415	935	1.8

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File No. 23717
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Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
M-L12S-12E	21	72	445	0.8
13E	22	64	273	2.2
14E	29	58	167	0.9
15E	33	60	205	1.5
16E	18	35	202	1.0
17E	123	44	352	1.0
18E	118	75	455	2.8
19E	114	156	570	2.4
20E	115	180	585	2.4
21E	205	535	1000+*	4.5
22E	318	725	1000+*	5.6
23E	235	305	1000+*	2.5
24E	230	78	1000+*	2.4
25E	180	167	1000+*	2.1
26E	97	165	1000+*	1.8
27E	36	93	425	1.0
M-L13S-13E	35	55	310	1.0
14E	70	114	525	1.7
15E	23	120	295	1.4
16E	34	34	168	0.6
17E	111	86	290	1.8
18E	125	120	495	1.9
19E	148	420	1000+*	3.0
20E	420	970	1000+*	6.5
21E	280	815	1000+*	4.5
22E	305	465	1000+*	3.2
23E	202	59	1000+*	1.9
24E	205	215	1000+*	2.5
25E	176	150	1000+*	1.6
26E	69	89	645	0.9
27E	49	86	435	0.9

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ATTN: Mr. Netolitzky

File No. 23717
Date July 26, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
M-L40S-14E	22	42	83	0.9
15E	39	56	119	1.0
16E	25	40	84	0.8
17E	26	39	92	0.6
18E	19	37	75	0.6
19E	12	36	60	0.5
20E	16	37	87	0.6
21E	19	36	90	0.5
22E	15	33	79	0.4
23E	18	40	65	0.8
24E	12	35	59	0.6
25E	13	43	104	0.6

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cts Retained one month.
ips Retained one month
less specific arrangements
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Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23717
Date July 26, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	% Zn
"Soil Samples"	
M-L 4S- 9E	.11
10E	.11
12E	.14
21E	.21
M-L12S-22E	.28
23E	.13
24E	.11
25E	.18
26E	.13
M-L13S-19E	.12
20E	.31
21E	.26
22E	.17
23E	.10
24E	.18
25E	.19

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Assayer

To: TAIGA CONSULTANTS LTD.,
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Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23718
Date August 5, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

see pg 3
M-L2N 7E to 12E

Page # 1

SAMPLE No.	% Zn
"Soil Sample"	
M-L3S-13E	.11

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File No. 23718
Date August 5, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
"Soil Samples"				
M-L 3S- 0	14	39	175	0.6
1E	39	118	169	0.9
2E	21	125	230	0.8
3E	19	37	90	0.8
4E	25	142	480	0.9
5E	18	94	315	0.7
6E	21	63	210	0.8
7E	32	280	490	1.1
8E	23	137	470	0.9
9E	24	178	365	0.8
10E	46	575	910	1.4
11E	37	150	395	0.8
12E	30	215	715	1.0
13E	44	173	1000+*	0.7
14E	32	132	605	0.9
15E	37	161	710	0.6
M-L37S- 0	13	20	35	0.5
1W	14	25	34	0.6
2W	22	32	33	0.8
3W	11	24	39	0.6
4W	14	56	37	0.7
5W	17	50	52	0.6
6W	12	45	26	0.4
7W	8	37	31	0.7
8W	26	42	66	0.5
M-L38S- 0	13	25	43	0.6
1W	29	26	33	0.9
2W	16	37	45	0.7
3W	14	36	39	1.0

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ATTN: Mr. Netolitzky

File No. 23718
Date August 5, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
M-L38S- 4W	21	62	37	0.6
5W	10	42	40	0.7
6W	11	41	32	0.6
8W	195	345	280	2.5
M-L39S- 0	14	33	35	2.3
1W	21	44	60	1.1
2W	20	42	63	0.9
3W	13	39	40	0.6
4W	14	27	52	0.8
5W	10	36	37	0.5
6W	13	48	41	1.4
7W	17	43	48	0.8
8W	15	51	64	0.9
M-L20N- 0	22	36	81	0.8
1E	13	37	117	0.7
2E	14	78	119	1.0
3E	17	38	141	0.5
4E	21	45	112	0.8
5E	21	37	114	0.6
6E	22	38	163	0.9
7E	17	35	144	0.8
8E	18	68	132	0.6
9E	14	48	98	0.7
10E	16	45	102	0.9
11E	15	39	146	0.5
12E	14	38	118	0.3
M-L21N- 7E	15	37	130	0.5
8E	13	42	135	0.8
9E	14	37	112	1.0
10E	14	35	116	0.9
11E	19	54	118	0.9

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File No. 23718
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LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
L21N-12E	15	58	98	0.7
L25N- 1W	24	59	87	1.1
2W	51	52	101	0.7
3W	12	41	46	0.6
4W	15	385	108	0.6
5W	17	39	70	0.7
6W	18	40	63	1.0
7W	41	94	425	1.1
8W	31	67	155	2.2
9W	18	70	152	1.0
10W	15	55	119	1.1

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Assayer

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Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23737
Date August 5, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
"Soil Samples"				
L 1N- 7W	157	840	330	3.9
9W	21	38	133	1.2
10W	17	33	157	0.6
11W	20	29	131	0.7
12W	19	30	120	0.7
13W	15	28	78	0.5
14W	29	34	132	1.2
L 2S- 3W	940	1000+*	260	23.0
4W	690	1000+*	210	21.0
5W	620	1000+*	205	18.0
6W	595	1000+*	370	19.0
7W	510	1000+*	355	17.0
8W	600	1000+*	345	19.0
9W	27	74	157	1.0
10W	21	51	132	1.1
11W	16	34	98	0.6
12W	18	30	126	0.6
13W	10	33	105	0.5
14W	16	80	70	1.0
L 4S- 1E	170	230	260	1.8
2E	71	84	137	1.2
3E	51	89	340	0.9
L 4S- 3W	690	1000+*	113	7.3
4W	315	660	155	3.7
5W	305	725	430	3.0
6W	525	715	575	3.1
7W	330	1000+*	420	5.5
8W	49	120	66	2.5
9W	95	320	265	1.4

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ATTN: Mr. Netolitzky

File No. 23737
Date August 5, 1982
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Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
L 4S-10W	19	29	127	0.5
11W	22	48	143	0.8
12W	25	35	154	0.5
13W	19	50	150	0.6
14W	9	24	85	0.6
L 4N- 7W	630	1000+*	1000+*	9.5
8W	21	50	131	0.7
9W	27	240	140	1.2
10W	19	58	134	0.5
11W	15	27	178	0.4
12W	13	30	88	0.6
13W	21	44	137	0.6
L 5S- 7W	245	1000+*	146	3.5
8W	198	685	122	6.0
10W	15	27	130	0.9
11W	26	40	174	0.6
12W	21	35	169	0.5
13W	19	70	110	0.4
14W	20	31	158	0.8
L 6S-BLO	1000+*	1000+*	270	9.0
1E	710	760	275	2.4
1W	1000+*	1000+*	890	30.0+*
2W	880	1000+*	430	22.0
3W	760	1000+*	205	9.5
4W	490	1000+*	191	21.0
5W	1000+*	1000+*	163	30.0
6W	1000+*	1000+*	78	11.2
7W	1000+*	1000+*	155	30.0+*
8W	1000+*	1000+*	490	22.0
9W	20	45	74	0.8
10W	14	32	87	0.5

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Rod Bears
Assayer

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ATTN: Mr. Netolitzky

File No. 23737
Date August 5, 1982
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Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
L 6S-11W	18	57	110	0.4
12W	21	79	114	0.6
13W	12	30	78	0.7
14W	13	28	136	0.5
L 7N- 7W	220	1000+*	360	5.5
8W	163	890	380	4.4
9W	16	35	120	0.6
10W	22	41	156	0.5
11W	17	40	138	0.4
13W	16	34	129	0.5
14W	15	23	98	0.4
L12N- 7E	24	41	395	0.6
8E	25	35	535	0.7
9E	23	42	560	0.6
10E	24	130	575	0.9
11E	118	32	460	0.5
12E	72	80	485	0.7
L13N- 7E	24	42	620	0.6
8E	28	48	650	1.1
9E	12	18	112	0.2
10E	69	31	325	0.4
11E	55	65	405	0.5
12E	67	37	187	0.8
L14N- 7E	20	35	615	0.9
8E	27	45	665	0.6
9E	37	53	540	0.6
10E	40	100	455	0.5
11E	54	56	345	0.2
12E	68	40	270	0.8
L15N- 7E	27	42	735	0.8
8E	33	41	525	0.7

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Fred Swan
Assayer

To: TAIGA CONSULTANTS LTD.,
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ATTN: Mr. Netolitzky

File No. 23737
Date August 5, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
L15N- 9E	34	40	375	0.6
10E	51	100	460	0.7
11E	64	61	340	0.7
12E	61	82	445	0.6
L16N- 7E	26	39	420	0.5
8E	35	32	365	0.5
9E	34	25	220	0.7
10E	40	50	380	0.9
11E	58	43	265	0.6
12E	70	74	305	0.7
L17N- 5E	19	28	247	0.4
6E	23	36	630	0.6
7E	28	35	495	0.5
8E	33	39	485	0.6
9E	38	49	410	0.6
10E	47	50	267	0.6
11E	46	48	295	0.7
12E	44	58	320	0.6
L18N- 5E	21	32	380	0.7
6E	20	33	480	0.8
7E	23	35	415	0.5
8E	25	37	365	1.0
9E	51	60	310	0.7
10E	56	63	305	0.9
11E	57	61	360	0.8
12E	49	53	270	0.6
L19N- 7E	29	37	430	0.4
8E	28	38	450	0.4
9E	37	38	270	0.7
10E	58	45	245	0.6
11E	13	19	72	0.5

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Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23737
Date August 5, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

Page # 5

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
L19N-12E	12	17	93	0.6
L41S-14E	11	18	54	0.7
15E	35	29	66	0.8
16E	27	30	75	0.5
17E	25	22	58	0.6
18E	23	21	55	0.8
19E	9	18	34	0.6
20E	15	20	51	0.5
21E	10	15	33	0.5
22E	17	16	42	0.6
L42S-14E	14	18	69	0.5
15E	27	21	74	1.0
16E	22	20	56	0.8
17E	52	23	39	0.4
18E	18	27	70	0.5
19E	12	16	33	0.6
20E	12	19	62	0.5
21E	13	18	60	0.7
22E	8	16	36	0.4
23E	9	20	63	0.5
24E	8	22	45 - OFF	0.7
25E	12	19	44	0.8
L43S-14E	11	16	38	0.5
15E	12	15	27	0.6
17E	10	19	50	0.4
18E	14	12	26	0.7
19E	13	17	35	0.6
20E	13	14	36	0.5
21E	25	13	33	0.8
22E	11	23	36	0.5
23E	7	15	65	0.4

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SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
M L43S-24E	9	17	44	0.5
25E	15	25	53	0.6
M L43S-BLO	14	23	49	0.5
M L43S- 1W	15	42	41	0.6
2W	21	40	34	0.7
3W	17	59	110	0.8
4W	15	43	48	0.7
5W	12	51	54	0.5
6W	12	46	46	0.8
7W	16	52	47	0.7
8W	11	34	33	0.9
M L44S-14E	106	42	53	0.6
15E	30	38	85	0.5
16E	23	41	71	0.6
17E	30	39	74	0.8
18E	145	35	48	0.5
19E	33	36	94	0.6
20E	16	35	46	0.7
21E	31	34	44	0.5
22E	14	33	43	0.4
23E	13	33	42	0.5
24E	12	34	39	1.1
25E	14	30	36	0.4
M L44S-BLO	18	47	68	0.9
1W	17	41	45	1.0
2W	11	33	56	1.1
4W	15	46	66	0.8
5W	16	48	63	0.6
6W	13	54	52	0.5
7W	23	60	88	0.5
8W	13	43	40	8.0

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LORING LABORATORIES LTD.

Page # 7

SAMPLE No.	OZ./TON SILVER	% Cu	% Pb	% Zn
"Soil Samples"				
L2S- 3W	-	-	.38	-
4W	-	-	.37	-
5W	-	-	.31	-
6W	-	-	.34	-
7W	-	-	.28	-
8W	-	-	.33	-
L4S- 3W	-	-	.18	-
7W	-	-	.12	-
L4N- 7W	-	-	.15	.12
L5S- 7W	-	-	.11	-
L6S-BLO	-	.11 ✓	.69	-
1W	1.39 ✓	.16 ✓	.92	-
2W	-	-	.48	-
3W	-	-	.32	-
4W	-	-	.23	-
5W	-	.15 ✓	1.73	-
6W	-	.11 ✓	.46	-
7W	1.23 ✓	.12 ✓	.62	-
8W	-	.10 ✓	.28	-
L7N- 7W	-	-	.11	-

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Assayer

(M3)

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File No. 23741
Date August 5, 1982
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LORING LABORATORIES LTD.

SAMPLE No.	% Pb	% Zn
"Soil Samples"		
M L5S-14E	-	.11 ✓
18E	-	.14 ✓
19E	-	.11 ✓
M L6S-17E	-	.17 ✓
18E	-	.11 ✓
M L6N-BLD	-	.10 ✓
1E	-	.16 ✓
5E	-	.11 ✓
M L7N- 1E	-	.13 ✓
2E	-	.13 ✓
M L8S- 9W	-	.10 ✓
M L9S- 6E	.16 ✓	-
M L9S-15E	-	.13 ✓
23E	-	.14 ✓
M L9S- 4W	-	.15 ✓

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LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
"Soil Samples"				
M-L0-10E	33	130	530	0.9
11E	32	240	525	1.4
12E	34	330	705	0.8
13E	33	136	610	0.6
14E	41	114	550	0.7
15E	39	105	560	0.5
16E	46	135	730	0.6
17E	30	15	129	0.7
18E	52	88	450	1.0
19E	144	25	195	1.1
M-L1S-BL0	35	128	370	0.7
1E	42	121	228	0.9
2E	21	98	147	0.8
3E	7	30	60	0.5
4E	12	16	108	0.6
5E	17	23	165	0.5
6E	31	95	395	0.9
7E	22	50	230	0.8
8E	42	146	420	1.2
9E	20	64	245	0.8
10E	26	152	525	0.9
11E	35	335	645	1.2
12E	30	275	550	1.0
13E	37	220	750	0.9
14E	44	136	690	1.0
15E	40	130	730	1.1
M-L1S-1W	28	104	675	0.6
2W	31	68	235	0.8
M-L2S-9E	24	145	455	0.6

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SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
M-L2S-10E	38	345	645	1.2
11E	37	380	625	1.1
12E	38	225	760	0.7
13E	43	148	795	0.8
14E	40	139	720	0.9
15E	50	142	790	1.0
M-L4S- 4W	21	49	335	0.5
5W	15	40	225	0.6
6W	11	99	172	0.7
7W	13	370	565	0.8
8W	16	69	270	0.8
9W	24	235	385	0.9
10W	18	137	192	1.0
11W	20	75	300	0.7
12W	18	47	240	0.6
M-L5S- 9E	31	152	245	0.5
10E	26	127	460	0.9
11E	23	22	152	0.6
12E	43	205	890	0.9
13E	20	78	355	0.7
14E	191	250	1000+*	2.1
15E	24	78	240	0.9
16E	34	95	295	1.2
17E	87	147	755	2.1
18E	172	345	1000+*	3.6
19E	90	198	1000+*	1.6
20E	122	88	520	1.5
21E	61	79	395	1.2
22E	85	73	390	1.1
23E	92	23	440	2.1
M-L5S- 4W	33	81	390	0.8

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SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
M-L5S- 5W	22	49	116	0.6
6W	21	63	235	0.5
7W	22	103	205	0.8
8W	23	180	385	0.9
9W	21	67	118	0.6
10W	21	154	225	0.7
11W	20	61	260	0.5
12W	23	93	208	1.2
M-L6S- 9E	23	39	160	0.4
10E	20	52	182	0.7
11E	15	52	129	0.5
12E	23	127	350	0.6
13E	21	95	495	0.9
14E	34	64	230	1.0
15E	41	98	375	1.1
16E	22	27	104	0.6
17E	176	315	1000+*	4.2
18E	134	295	1000+*	2.4
19E	72	95	505	3.4
20E	127	86	510	4.0
21E	60	68	295	2.0
22E	63	73	275	2.1
23E	69	88	310	2.3
M-L6S- 4W	24	82	245	0.8
5W	20	90	235	1.0
6W	19	79	215	1.0
7W	21	126	425	1.8
8W	18	97	330	1.6
9W	14	162	325	2.0
10W	9	74	315	1.8
11W	15	44	335	1.6

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SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
M-L6S-12W	20	41	205	1.5
M-L6N-BLO	123	180	1000+*	6.0
1E	265	161	1000+*	12.5
2E	46	97	690	5.0
3E	107	155	665	5.2
4E	193	39	142	2.1
5E	102	33	1000+*	1.8
6E	37	47	200	1.1
7E	24	58	163	0.6
8E	19	36	68	0.8
9E	24	59	98	1.8
10E	54	124	180	2.1
11E	49	50	188	1.7
12E	28	38	52	0.5
13E	29	35	103	0.4
M-L6N- 1W	114	355	670	3.6
2W	85	51	240	1.0
3W	51	90	485	1.0
4W	68	41	270	1.1
5W	67	72	655	1.2
6W	39	65	360	0.8
M-L7S- 4W	31	175	355	1.2
5W	24	91	275	1.0
6W	25	415	520	2.0
7W	22	118	210	0.4
8W	20	139	295	0.7
9W	15	25	78	0.6
10W	20	104	230	0.6
11W	22	78	215	0.7
12W	23	125	220	0.5
M-L7N-BLO	53	38	360	0.6

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SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
M-L7N- 1E	625	64	1000+*	4.4
2E	175	36	1000+*	1.4
3E	89	81	530	1.5
4E	76	38	275	1.1
5E	10	39	57	0.8
6E	25	61	345	0.6
7E	36	78	138	0.8
8E	24	62	94	0.6
9E	25	36	59	0.7
10E	28	67	118	0.5
11E	26	78	138	0.6
12E	31	41	110	0.5
13E	13	42	133	0.4
M-L7N- 1W	31	80	225	0.6
2W	64	37	130	0.9
3W	56	28	90	0.9
4W	54	30	124	0.6
5W	27	29	102	0.7
6W	26	30	63	0.5
M-L8S- 6W	25	150	710	1.0
7W	21	240	260	1.0
8W	15	147	295	1.1
9W	10	106	1000+*	0.8
10W	12	98	365	1.0
11W	11	91	196	0.7
12W	17	132	240	1.2
M-L9S- 5E	22	235	95	1.0
6E	48	1000+*	820	1.9
7E	19	156	715	1.1
8E	21	184	440	1.4
9E	22	94	123	0.9

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SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
M-L9S-10E	28	175	385	1.0
11E	15	71	260	0.6
12E	31	152	705	1.3
13E	20	110	465	0.9
14E	64	103	450	1.2
15E	50	360	1000+*	1.9
16E	17	107	390	1.6
17E	30	34	67	0.6
18E	220	135	890	3.2
19E	26	46	121	0.8
20E	205	74	465	2.0
21E	106	78	173	1.1
22E	95	100	585	1.8
23E	235	174	1000+*	3.0
M-L9S- 4W	69	665	1000+*	1.6
5W	24	195	315	1.8
6W	39	445	650	1.5
7W	27	176	535	1.0
8W	28	210	470	0.9
9W	31	215	415	1.0
10W	26	130	495	0.9
11W	22	192	380	0.9
12W	17	100	145	1.0

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SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
"Soil Samples"				
M-L10S- 4W	49	275	890	0.5
5W	19	139	220	0.9
6W	33	210	475	1.4
7W	15	179	345	0.9
8W	16	208	575	1.1
9W	13	82	480	0.7
10W	9	103	295	0.8
11W	11	114	320	0.8
12W	12	120	235	1.0
M-L11S- 4W	18	165	285	0.8
5W	12	111	280	0.9
6W	16	146	365	1.2
7W	16	187	540	1.0
8W	21	235	680	1.3
9W	20	205	460	1.5
10W	13	153	455	1.0
11W	12	108	295	1.1
12W	13	114	290	0.8
M-L12S- 4W	11	90	195	0.9
5W	23	325	525	1.5
6W	15	255	375	1.0
7W	14	174	305	1.0
8W	10	110	265	0.6
9W	13	89	460	0.9
10W	19	198	560	1.0
11W	25	370	880	1.0
12W	18	210	535	1.1
M-L13S- 4W	16	205	810	1.0
5W	53	940	1000+*	4.1

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SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
M-113S- 6W	25	510	835	1.3
7W	31	595	1000+*	2.5
8W	15	146	545	1.4
9W	16	137	450	1.6
10W	16	152	395	1.0
11W	12	154	350	1.2
12W	14	68	260	0.6
M-L14S- 4W	19	640	630	0.9
5W	15	245	420	0.8
6W	11	110	1000+*	0.8
7W	13	200	325	1.0
8W	12	160	144	1.1
9W	11	215	275	1.0
10W	10	92	123	1.0
M-L14S-12W	14	138	290	1.2
M-L14S- 8E	74	570	1000+*	2.0
9E	32	185	445	1.1
10E	12	130	67	0.8
M-L14S-14E	25	64	85	0.9
15E	76	180	600	2.0
16E	83	295	625	2.6
17E	158	615	1000+*	4.2
18E	270	480	1000+*	5.0
19E	545	1000+*	1000+*	7.6
20E	215	825	1000+*	4.8
21E	210	385	1000+*	2.9
22E	295	230	1000+*	3.6
23E	122	163	1000+*	1.4
24E	65	128	730	0.8
25E	54	116	535	1.3
26E	31	96	375	1.1

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SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
M-L14S-27E	42	93	380	1.2
M-L15S- 6W	13	180	144	1.0
7W	13	126	215	1.1
8W	12	129	157	1.0
9W	11	98	125	0.8
10W	10	66	68	0.6
11W	12	95	112	0.9
12W	21	109	155	0.6
M-L40S-BLO	16	70	49	0.7
1W	13	61	35	0.6
2W	17	92	53	0.7
3W	29	70	32	1.0
4W	18	66	71	0.8
5W	12	74	40	0.7
6W	13	67	38	0.7
7W	17	75	52	0.6
8W	15	73	55	0.7
M-L41S-BLO	17	45	46	0.8
1W	11	38	41	0.6
2W	16	56	33	0.7
4W	22	74	106	0.9
5W	23	75	45	0.5
6W	18	77	56	0.6
7W	18	93	54	0.7
8W	12	49	49	0.4
M-L42S-BLO	12	43	41	0.7
1W	22	40	58	0.6
2W	17	42	44	0.7
3W	15	29	27	0.9
4W	12	42	49	0.5
5W	22	78	57	0.6

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Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23742
Date August 5, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
M-L42S- 6W	22	82	51	0.7
7W	15	47	46	0.5
8W	21	45	70	0.7

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23742
Date August 5, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	% Pb	% Zn
"Soil Samples"		
M-L13S- 4W	-	.71
7W	-	.10
M-L14S- 6W	-	.11
M-L14S- 8E	-	.15
17E	-	.15
18E	-	.16
19E	.13	.51
20E	-	.29
21E	-	.19
22E	-	.27
M-L14S-23E	-	.15

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Rejects Retained one month.
Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23756
Date August 9, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	% Cu	% Pb	% Zn
"Soil Samples"			
LD- 7W	-	.23	-
8W	-	.30	-
L 1S-7W	-	.41	-
8W	-	.31	-
L 3S-3W	.19 ✓	.34	-
4W	.15 ✓	.31	-
5W	-	.18	-
6W	-	.16	-
7W	-	.18	-
L 6N-7W	-	.10	-
L 7S-7W	-	.34	-
L 8S-BLD	-	-	.10 ✓
5W	-	.16	-
6W	-	.25	-
7W	-	-	.12 ✓
L 8N-7W	-	.25	-
8W	-	.30	-
L 9N-7W	-	.25	-
8W	-	.31	-
9W	-	.11	.22 ✓

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Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

D. Eades

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23756
Date August 9, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	% Cu	% Pb	% Zn
L10N-7W	-	.13	-
8W	-	.45	.11 ✓
L11N-7W	-	-	.19 ✓

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Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

D. Loring

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23756
Date August 9, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
"Soil Samples"				
L0- 7W	166	1000+*	156	10.5
8W	260	1000+*	140	10.1
9W	24	96	168	0.8
10W	15	62	108	0.9
11W	17	68	148	0.9
12W	14	66	96	0.7
13W	10	74	66	0.8
14W	12	72	70	0.7
L1S- 7W	620	1000+*	450	19.0
8W	360	1000+*	260	16.0
9W	18	58	136	5.4
10W	16	56	102	0.6
11W	13	54	134	0.6
12W	12	56	68	0.5
13W	14	68	64	0.7
14W	18	72	28	0.7
L2N- 7W	114	710	108	3.5
8W	62	200	82	1.4
9W	25	114	184	0.9
10W	47	425	152	1.7
11W	16	58	132	0.9
13W	11	50	68	0.7
14W	16	56	106	0.8
L3S- 3W	1000+*	1000+*	280	18.0
4W	1000+*	1000+*	196	17.0
5W	460	1000+*	200	9.1
6W	590	1000+*	116	10.6
7W	630	1000+*	138	12.7
9W	122	390	172	2.1

(*) = Assayed

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Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

D. [illegible]

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23756
Date August 9, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
L3S-10W	41	520	112	1.0
12W	24	74	86	1.0
14W	10	56	64	0.9
L3N- 8W	390	200	560	5.4
9W	17	60	104	0.8
10W	26	134	124	1.4
11W	17	60	102	0.9
12W	12	68	116	0.7
13W	14	70	80	0.9
L5N- 7W	93	685	360	7.3
8W	15	76	116	0.7
9W	17	42	126	0.8
10W	12	34	136	0.6
11W	8	28	86	0.5
12W	12	22	78	0.4
L6N- 7W	205	1000+*	880	6.2
9W	14	36	136	0.5
10W	15	32	160	0.6
11W	14	34	96	0.5
12W	8	30	88	0.6
L7S- 7W	790	1000+*	440	21.0
8W	16	36	88	0.9
9W	14	38	98	0.5
10W	8	28	90	0.4
11W	15	28	124	0.5
12W	20	40	156	0.5
13W	13	32	88	0.6
14W	10	28	88	0.4
L8S-BLO	97	200	1000+*	3.6
1E	22	116	116	1.1
2E	17	182	32	0.7

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Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

D. Eades

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23756
Date August 9, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
L8S- 3E	21	176	58	0.7
4E	14	36	60	0.8
1W	45	58	245	1.4
2W	32	68	275	1.6
3W	29	86	230	1.2
4W	128	610	225	2.5
5W	340	1000+*	380	6.0
6W	450	1000+*	620	10.5
7W	420	128	1000+*	8.0
9W	10	30	90	0.6
10W	11	28	132	0.6
11W	18	88	96	0.7
12W	23	64	186	0.8
13W	11	30	116	0.6
14W	12	28	108	0.8
L8N- 7W	275	1000+*	640	8.4
8W	310	1000+*	530	9.5
9W	13	36	112	0.9
10W	15	84	88	1.1
11W	10	80	102	0.9
12W	12	68	92	0.6
14W	14	96	62	0.9
L9S-BLO	26	68	108	1.1
1E	19	108	98	1.2
2E	25	110	46	2.3
3E	17	72	58	1.9
4E	12	62	42	1.4
1W	44	70	178	1.1
2W	29	74	84	1.2
3W	21	82	156	1.2
4W	20	86	140	0.9

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D. Loring

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23756
Date August 9, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
L 9S- 5W	26	100	164	1.0
7W	12	52	94	0.6
8W	49	62	136	1.0
10W	9	52	84	0.5
11W	16	54	136	0.6
12W	20	60	138	0.6
13W	17	54	114	0.5
14W	21	52	90	0.6
L 9N- 7W	360	1000+*	560	4.4
8W	295	1000+*	880	7.0
9W	180	1000+*	1000+*	5.5
10W	17	132	102	1.0
11W	16	92	100	0.9
14W	18	54	102	0.8
15W	21	96	104	0.7
16W	23	92	62	0.9
22W	40	80	92	1.0
24W	33	46	124	0.8
L10S- 5W	35	98	184	1.1
6W	19	46	38	0.8
7W	37	48	68	0.6
8W	23	54	48	0.7
9W	15	52	128	0.8
10W	10	58	84	0.9
11W	17	66	114	0.7
12W	22	78	132	0.7
13W	12	30	92	0.6
14W	13	36	80	0.7
L10N- 7W	118	1000+*	240	5.0
8W	435	1000+*	1000+*	8.7
9W	101	830	360	2.5

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Assayer

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100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23756
Date August 9, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
L10N-10W	16	112	118	0.9
12W	13	36	76	0.5
13W	7	26	66	0.4
14W	11	28	88	0.6
15W	19	52	58	0.6
16W	14	28	72	0.7
17W	11	32	74	0.6
18W	12	26	78	1.6
20W	17	24	82	0.6
21W	21	28	122	0.7
22W	16	24	70	0.5
24W	30	26	134	0.6
L11S- 3W	28	108	110	1.8
4W	36	20	54	0.8
5W	22	22	48	0.7
7W	28	28	52	0.8
8W	21	28	86	0.6
9W	8	36	74	0.7
10W	9	32	86	0.5
11W	11	30	92	0.6
12W	12	30	104	0.7
13W	8	34	80	0.5
13W	9	36	86	0.6
L11N- 7W	184	590	1000+*	5.0
8W	140	715	890	4.0
9W	20	48	164	0.7
10W	11	44	136	0.8
11W	9	42	118	0.8
12W	10	22	60	0.6
13W	18	46	168	1.2
14W	10	22	44	0.6

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Pulps Retained one month unless specific arrangements made in advance.

D. Eades

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23756
Date August 9, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
L11N-15W	10	16	36	0.7
16W	16	14	82	0.5
17W	26	18	22	0.9
18W	17	62	70	1.4
19W	17	56	38	0.8
20W	22	62	90	0.8
21W	23	56	46	0.7
22W	19	60	98	1.0
23W	20	52	56	0.9
24W	19	62	108	0.6
L12S- 1E	78	132	168	2.1
2E	63	112	50	1.6
3E	88	130	275	2.0
4E	82	176	385	1.8
5E	45	120	240	1.4
6E	22	74	156	1.0
BLO	46	108	148	1.6
1W	44	162	174	2.4
2W	55	156	170	2.0
3W	48	176	190	2.2
4W	52	136	158	1.6
5W	37	56	46	1.1
6W	21	78	174	1.4
7W	21	62	42	0.9

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Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23757
Date August 9, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
"Soil Samples"				
L12N- 8W	85	590	1000+*	2.9
9W	17	71	132	1.0
10W	19	75	168	1.0
11W	18	51	103	0.9
12W	15	66	112	0.8
13W	12	46	124	1.1
14W	13	64	180	0.9
15W	8	45	39	0.6
17W	21	43	69	1.0
18W	21	40	52	0.8
19W	24	38	41	0.8
20W	20	39	42	1.0
21W	35	41	39	0.6
22W	28	38	62	0.7
23W	25	39	78	0.8
24W	21	40	87	0.9
L13S-BLO	76	148	220	2.5
1E	95	134	375	2.0
2E	50	92	295	1.4
3E	48	110	260	1.4
4E	56	82	335	1.7
5E	38	78	365	1.4
6E	20	68	240	0.9
1W	54	140	148	1.4
2W	55	139	154	1.6
3W	61	103	110	1.5
4W	33	49	44	1.0
5W	43	54	37	0.9
6W	42	54	61	0.7

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Rejects Retained one month.

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D. Eades

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23757
Date August 9, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
L13S- 7W	17	41	53	0.8
L13N- 7W	81	820	200	4.0
8W	90	465	310	3.5
9W	13	56	105	0.6
10W	19	64	114	0.7
11W	22	122	158	1.2
12W	20	70	148	1.0
13W	12	57	198	1.0
14W	8	54	76	0.6
15W	9	43	34	0.5
16W	12	59	65	0.9
17W	20	52	89	0.8
19W	15	48	77	0.6
20W	12	50	72	0.6
21W	17	50	80	0.7
22W	14	52	73	0.6
23W	16	51	82	0.8
24W	19	54	121	0.8
L14S-BLO	64	220	320	2.1
1E	69	265	345	3.0
2E	62	172	475	2.0
3E	35	84	235	1.4
4E	58	112	595	3.3
5E	36	87	380	1.6
6E	24	60	84	0.7
1W	86	195	245	2.4
2W	120	255	290	2.3
3W	94	210	240	2.1
4W	51	175	188	1.6
5W	74	50	91	1.1
6W	27	49	128	0.8

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D. Eales

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23757
Date August 9, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
L14N- 7W	450	1000+*	1000+*	4.4
8W	21	74	144	0.9
9W	22	92	215	0.6
10W	24	148	152	1.0
11W	10	60	89	0.5
12W	12	59	39	1.0
13W	17	70	88	0.4
14W	27	52	70	1.1
15W	28	44	121	0.8
16W	21	52	42	0.8
17W	12	56	68	0.9
18W	14	52	59	0.7
20W	14	55	91	0.7
21W	20	23	43	0.6
22W	22	56	130	1.1
23W	24	59	122	0.9
no rock 24W	28	47	48	0.9
L15N- 8W	123	940	305	2.6
9W	24	163	158	1.3
10W	23	225	113	0.9
11W	21	88	125	0.9
12W	23	97	148	1.1
13W	9	75	49	0.6
15W	8	70	38	0.7
16W	30	81	365	1.0
17W	26	76	92	1.1
19W	24	69	106	1.1
20W	14	64	55	0.8
21W	21	68	46	1.0
22W	18	73	90	0.8
23W	13	70	89	0.9

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Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

D. [signature]
Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23757
Date August 9, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
L15N-24W	21	67	57	1.0
L16N- 7W	125	1000+*	225	3.6
8W	69	188	117	2.5
9W	17	89	131	1.0
10W	23	158	127	1.2
11W	55	98	220	1.1
12W	22	90	178	0.9
13W	12	100	95	1.0
14W	13	67	49	0.8
15W	10	72	72	0.7
16W	21	74	128	1.5
17W	19	69	76	0.9
18W	20	68	40	1.0
19W	16	79	104	0.8
20W	15	75	68	0.9
21W	16	74	69	1.0
22W	35	73	50	0.9
23W	19	59	74	1.2
24W	15	53	104	1.1
L17N- 7W	150	1000+*	167	9.8
8W	40	470	150	3.0
9W	17	97	88	1.0
10W	24	235	105	0.9
11W	16	94	170	0.8
13W	11	77	40	0.9
14W	11	90	41	0.8
15W	18	45	1000+*	1.4
16W	12	34	40	0.6
17W	16	38	42	0.7
18W	15	40	76	0.7
19W	19	35	37	0.5

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Rejects Retained one month.

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D. Eades

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23757
Date August 9, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
L17N-20W	22	43	40	0.8
21W	12	42	44	0.5
22W	21	44	173	0.7
23W	18	47	100	0.7
L18N- 7W	68	70	87	2.4
8W	24	110	48	1.6
9W	22	138	113	0.9
10W	21	152	142	0.9
11W	17	61	115	0.6
12W	16	50	91	0.6
13W	14	61	112	0.8
14W	12	52	41	0.7
15W	10	55	30	0.7
16W	8	54	69	1.1
17W	27	53	660	1.9
18W	20	32	56	0.6
19W	9	36	40	0.5
20W	11	45	93	0.6
21W	14	41	94	0.5
22W	13	32	35	0.6
23W	14	46	48	0.5
24W	30	42	90	1.0
L19N- 8W	23	120	134	1.9
9W	16	95	149	0.9
10W	22	198	117	1.1
11W	12	58	128	0.6
12W	12	49	107	0.7
13W	8	35	42	0.8
14W	9	39	41	0.6
15W	9	38	63	0.7
16W	26	45	45	0.8

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Rejects Retained one month.

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D. Eden

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23757
Date August 9, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
L19N-17W	13	48	65	0.9
18W	14	49	56	0.8
19W	16	47	36	0.8
20W	20	45	91	0.6
21W	18	54	60	0.7
22W	25	51	38	0.5
23W	28	41	57	0.5

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

D. Eddy

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23757
Date August 9, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	% Pb	% Zn
"Soil Samples"		
L12N- 8W	-	.25
L14N- 7W	.20	.28
L16N- 7W	.15	-
L17N- 7W	.28	-
L17N-15W	-	.15

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Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

D. Enkel

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23758
Date August 10, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
"Soil Samples"				
L20W- 7W	14	19	93	0.8
8W	9	18	80	0.6
9W	14	41	124	0.7
10W	16	57	138	1.0
11W	10	23	86	0.5
12W	9	20	104	0.5
13W	11	16	65	0.7
14W	12	12	48	0.6
15W	21	136	102	0.9
16W	16	8	74	0.9
17W	19	14	60	1.0
18W	13	7	37	0.7
19W	8	6	42	0.5
20W	15	9	64	0.5
21W	17	8	40	0.7
22W	14	6	35	0.6
23W	17	10	77	0.9
24W	21	9	27	0.7
L21N-BLO	12	17	95	0.5
1E	12	14	84	0.6
2E	11	16	90	0.8
3E	12	15	118	0.6
4E	11	20	85	0.5
5E	11	15	92	0.6
6E	10	13	80	0.7
1W	9	14	80	0.6
2W	8	13	82	0.5
2+21W	6	16	72	0.6
4W	8	24	89	0.9

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Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

D. Eades

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23758
Date August 10, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
L21N- 5W	10	28	115	0.8
6W	27	45	138	1.0
7W	20	32	113	0.8
8W	12	41	110	0.8
9+06W	15	46	130	0.5
10W	13	25	105	0.9
11W	11	28	104	0.7
12W	10	24	75	0.6
13W	10	65	95	0.7
14W	8	43	54	0.5
15W	23	8	53	0.5
16W	17	6	71	0.6
17W	24	8	59	0.7
18W	11	7	45	0.8
19W	10	11	50	0.7
21W	29	11	40	1.1
22W	7	14	67	0.7
23W	19	9	74	0.6
24W	15	8	84	0.5
25W	6	23	77	0.6
26W	10	14	85	0.6
27W	39	10	54	0.8
L22N-BLO	50	118	230	2.8
1E	45	10	49	0.9
2E	86	57	152	1.5
3E	65	24	370	1.6
4E	27	38	148	1.4
5E	12	17	83	0.9
6E	12	17	105	0.9
7E	11	21	95	0.7
8E	14	16	85	0.9

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Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

D. Eccles

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23758
Date August 10, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
L22N- 9E	11	17	71	0.8
10E	11	17	77	0.5
11E	13	15	68	0.6
12E	23	38	44	1.1
1W	13	19	117	1.0
2W	14	24	153	1.1
4W	7	24	850	2.1
5W	8	26	112	0.9
6W	14	29	135	0.8
7W	17	34	103	0.5
8W	22	56	192	1.3
9W	12	32	115	0.6
10W	15	33	122	0.8
11W	19	63	126	1.0
12W	16	53	136	0.9
13W	13	22	138	0.6
15W	10	32	117	0.7
16W	30	17	178	1.0
17W	4	16	42	0.6
18W	5	13	31	0.4
20W	8	17	57	0.5
21W	14	23	85	1.0
22W	8	18	77	0.8
25W	10	16	78	0.7
27W	13	14	43	0.5
L23N-BLO	30	39	78	1.5
1E	39	27	90	0.7
2E	198	73	305	1.0
3E	23	9	102	0.7
4E	62	24	41	0.9
5E	34	41	295	2.2

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Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

D. [signature]

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23758
Date August 10, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
L23N- 6E	84	24	240	1.1
7E	16	18	105	0.6
8E	14	16	94	0.5
9E	10	15	88	0.4
10E	9	22	114	0.5
11E	10	16	103	0.6
12E	32	38	117	1.1
1W	53	33	120	1.1
2W	12	13	127	0.9
4W	11	19	53	1.0
5W	14	16	75	0.8
6W	12	16	62	0.8
7W	13	25	98	0.9
8W	11	22	147	1.1
9W	24	63	131	1.0
10W	15	43	103	1.0
11W	12	29	109	0.8
12W	13	30	118	0.8
13W	17	43	123	0.6
14W	5	19	78	0.5
15W	8	12	76	0.6
17W	19	36	115	0.6
19W	15	11	150	0.8
20W	8	17	55	0.9
21W	12	10	37	0.7
22W	11	26	130	1.0
23W	16	9	56	0.8
25W	15	17	84	0.7
27W	18	18	84	0.9
L24N-BLO	26	25	80	1.1
1E	110	40	178	0.9

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Pulps Retained one month unless specific arrangements made in advance.

D. Eades

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23758
Date August 10, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
L24N- 2E	16	14	21	0.6
3E	72	38	101	1.0
4E	38	67	128	1.8
5E	128	90	740	4.0
6E	96	52	320	2.2
8E	51	22	99	1.5
9E	181	42	550	1.4
10E	89	26	620	1.4
11E	119	32	183	1.3
12E	143	9	37	1.8
1W	36	27	115	1.6
2W	27	22	62	1.3
3W	315	138	170	2.2
4W	13	20	53	0.6
5W	14	15	60	0.9
6W	11	15	65	0.5
7W	15	24	89	0.6
8W	11	20	86	0.6
9W	17	23	82	0.6
10W	8	20	90	0.5
11W	21	72	112	0.8
12W	12	23	98	0.6
14W	10	22	102	0.5
15W	13	42	131	0.8
18W	19	41	170	0.6
19W	7	17	63	0.5
21W	6	18	82	0.5
22W	11	22	127	0.7
23W	14	20	115	0.6
24W	12	16	69	0.7
25W	8	15	91	0.8

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Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23758
Date August 10, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
L25N-BLO	22	23	78	0.7
1E	58	14	30	0.8
2E	49	28	78	1.0
3E	19	88	72	1.0
5E	46	90	250	1.6
6E	335	88	245	1.7
7E	96	82	116	1.5
8E	51	80	114	1.3
9E	62	108	390	2.2
10E	98	72	430	1.1
11E	148	78	170	1.4
12E	110	100	50	1.1

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Pulps Retained one month unless specific arrangements made in advance.

D. [signature]

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23759
Date August 17, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	% Zn
"Soil Sample" L28N-13W	.15

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23759
Date August 17, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
"Soil Samples"				
L26N-BLO	41	35	77	1.4
1E	95	42	110	1.7
2E	31	136	83	1.0
3E	19	120	56	1.1
5E	93	36	240	1.5
7E	139	24	117	1.6
1W	124	42	128	1.8
2W	36	64	68	1.0
3W	11	18	38	0.5
4W	10	20	39	0.5
5W	10	15	83	0.6
6W	15	60	155	1.9
7W	39	37	225	0.9
8W	19	25	126	0.9
9W	17	26	139	0.6
10W	23	44	210	0.7
11W	13	24	106	0.8
12W	18	45	128	0.6
13W	18	34	129	0.8
14W	14	26	115	0.6
L27N-BLO	37	79	55	0.8
1E	27	58	78	0.9
2E	47	94	40	1.6
3E	7	19	27	0.6
4E	42	29	40	0.8
5E	44	23	56	1.0
6E	62	38	180	1.2
7E	18	25	34	0.7
1W	17	22	50	0.6

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Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23759
Date August 17, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
L27N- 2W	15	20	57	0.9
3W	10	20	37	0.6
4W	19	16	44	1.1
5W	12	18	68	1.0
6W	16	18	89	0.9
7W	119	43	305	1.4
8W	146	68	184	1.6
9W	57	20	95	1.0
10W	75	64	410	3.0
11W	30	43	185	1.2
12W	58	77	340	2.2
13W	89	68	920	4.0
14W	20	48	160	0.9
L28N-BLO	97	220	74	1.8
1E	35	114	77	1.5
2E	12	47	32	1.2
3E	27	35	71	1.2
4E	30	27	50	1.5
5E	54	51	58	1.4
6E	142	76	134	1.6
no ticks 9E	31	35	57	1.1
1W	45	41	46	1.4
2W	13	20	56	0.9
3W	13	19	48	0.8
4W	12	17	52	0.7
5W	10	15	50	0.6
6W	10	20	38	0.8
7W	19	30	43	0.8
8W	17	21	45	0.9
9W	45	66	65	1.5
10W	68	50	290	2.0

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Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23759
Date August 17, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
L28N-11W	46	52✓	525✓	2.9
12W	305	58	600	4.0
13W	345	655	1000+*	4.8
14W	24✓	45✓	150✓	0.9
L29N-BLO	6✓	16✓	28✓	0.6
1E	10	15	45	1.0
2E	21	19	73	1.1
3E	26	57	54	1.5
4E	10	20	44	1.1
5E	16	22	55	1.5
6E	19	24	58	1.1
7E	12	26✓	49	1.0
1W	163	56	115	2.8
2W	11	19	38	0.8
3W	13	18	53	1.0
4W	11	14	60	0.5
5W	11	17	62	0.9
6W	18	14	27	1.0
7W	10	16	37	0.8
8W	19	24	68	0.7
9W	17	20	59	0.5
10W	20	25	55	0.8
11W	8	20	16	0.6
12W	33	63	28	1.4
13W	48	76✓	90	1.7
14W	17✓	30✓	94✓	0.8
L30N-BLO	14✓	20✓	65	1.0
1E	11	18	58	0.6
2E	20	20	67	0.6
3E	17	34	58	0.8
4E	8✓	16✓	21	6.0

(*) = Assayed

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Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23759
Date August 17, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

Page # 5

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
L30N- 5E	5	18	26	0.9
6E	6	17	29	1.1
7E	10	18	32	1.0
1W	13	22	38	0.9
2W	10	17	37	0.7
3W	10	14	42	0.6
4W	12	15	75	0.9
5W	8	17	47	1.1
6W	9	20	23	0.8
7W	11	20	35	1.4
8W	12	19	49	0.9
9W	16	21	65	0.6
10W	10	21	29	0.5
11W	10	22	29	0.5
12W	14	42	21	0.6
13W	11	127	14	0.8
14W	4	15	9	0.5

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Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolizky

File No. 23760
Date August 17, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
"Soil Samples"				
M-L2N-BLO	29	81	260	1.0
1E	15	56	122	0.9
2E	19	37	58	0.8
3E	25	96	210	1.0
4E	18	25	89	0.6
5E	22	80	410	0.9
6E	16	32	170	0.6
7E	11	34	190	1.0
8E	22	120	525	1.2
9E	35	127	425	1.1
10E	38	102	495	1.5
11E	22	52	235	1.3
12E	28	195	395	1.1
13E	32	270	670	1.6
1W	16	17	88	1.0
2W	31	59	355	1.0
3W	37	65	405	1.2
4W	38	92	450	1.2
5W	26	116	240	1.3
6W	25	80	235	1.1
M-L3N-BLO	10	47	152	1.2
1E	16	67	158	1.0
2E	14	68	71	0.9
3E	32	93	310	1.2
4E	11	19	52	0.6
5E	22	44	315	1.6
6E	9	46	132	1.4
7E	26	89	420	0.6
8E	32	94	405	0.9

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23760
Date August 17, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
M-L3N- 9E	41	106	480	0.8
10E	29	35	270	0.8
11E	25	112	325	0.6
12E	32	8	155	0.7
13E	36	215	480	1.0
1W	11	27	103	0.9
2W	42	45	164	1.0
3W	45	84	510	1.0
4W	21	22	175	1.1
5W	26	108	350	1.4
6W	23	109	335	1.5
M-L4N-BLO	21	62	570	1.4
1E	37	47	178	1.6
2E	36	86	485	2.2
3E	25	28	340	1.4
4E	35	80	405	1.5
5E	50	103	630	2.5
6E	41	108	485	1.6
7E	26	66	320	1.1
8E	31	25	295	1.4
9E	34	60	230	1.0
10E	30	27	1000+*	1.1
11E	38	13	107	0.8
12E	33	31	120	0.9
13E	34	220	550	1.4
1W	48	235	560	3.0
2W	67	85	570	1.8
3W	54	58	405	1.0
4W	68	41	385	1.0
5W	48	29	295	1.2
6W	18	50	195	0.7

(*) = Assayed

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Fred Swan

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23760
Date August 17, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

Page # 3

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
M-L5N-BLO	27	112	1000+*	1.6
1E	21	54	275	1.4
2E	71	113	580	1.3
3E	58	77	300	2.6
4E	106	40	435	2.2
5E	230	23	1000+*	2.5
6E	57	98	395	2.0
7E	24	75	315	1.0
8E	39	66	305	1.1
9E	15	28	123	0.9
10E	19	35	138	0.8
11E	31	10	81	1.0
12E	23	14	52	1.0
13E	27	21	98	1.2
1W	22	13	103	0.9
2W	89	110	790	5.0
3W	65	56	360	1.1
4W	80	11	121	0.9
5W	33	23	124	0.6
6W	22	39	355	0.5
M-L8N-BLO	30	41	250-	0.7
1E	116	60	1000+*	1.4
2E	47	25	530	1.0
3E	26	9	75	0.7
4E	10	21	270	0.5
5E	9	7	71	0.4
6E	14	46	103	0.9
7E	13	16	74	0.7
8E	7	36	52	0.6
9E	4	20	41	0.5
10E	13	47	108	1.7

(*) = Assayed

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23760
Date August 17, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
M-L8N-11E	15	44	112	1.0
12E	15	43	122	0.9
13E	14	40	115	0.8
1W	21	32	130	0.6
2W	36	11	55	1.0
3W	25	78	175	0.9
4W	14	55	88	0.8
5W	26	46	112	1.0
M-L9N-BLO	27	27	505	1.1
1E	29	33	880	2.1
2E	40	60	1000+*	2.2
3E	38	38	660	1.2
4E	12	32	385	1.0
5E	22	26	245	1.0
6E	19	49	130	0.9
8E	18	41	145	1.4
9E	17	53	210	1.0
10E	20	48	172	0.9
11E	16	75	106	1.5
12E	19	45	138	1.0
13E	19	72	165	1.0
1W	18	70	275	1.5
2W	33	28	101	1.2
5W	10	27	61	0.8
6W	11	21	52	1.0

(*) = Assayed

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: TAIGA CONSULTANTS LTD.,
100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. Netolitzky

File No. 23760
Date August 17, 1982
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	% Zn
"Soil Samples"	
M-L4N-10E	.11
M-L5N-BLO	.11
M-L5N- 5E	.12
M-L8N- 1E	.11
M-L9N- 2E	.17

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

A P P E N D I X B

GEOPHYSICAL INTERPRETATION OF

EM-16 VLF-EM DATA

EAST SHEET

PROJECT Y-81-1

RUSTY SPRINGS, YUKON

JULY, 1982

1. Introduction and Objectives

The east sheet of a VLF-EM profile plan map plus field readings on separate data pages, were submitted to the writer for interpretation in July, 1982. The objectives were to delineate conductive trends within a detail area of the main grid, to check conductor systems previously interpreted on the remainder of the east sheet and to qualify conductor importance for future exploration.

2. Method

Topographic disturbance of the VLF-EM In-phase profile was eliminated by employing the first derivative method of reducing topographical effects as outlined by A.B.L. Whittles in the February, 1969 issue of Western Miner (pp. 51-56). A Hewlett Packard 41 CV and HP 82143A peripheral printer were used to reduce the data provided.

This method was chosen to find conductor locations because the first derivative of the in-phase profile can be more diagnostic than estimating position by finding a cross-over or inflection point by eye. This is because the calculated derivative has little interference from topography and eliminates any bias introduced into the profile by the interpreter's hand.

Although first derivative data can be contoured and also used to provide depth estimates, these operations were not considered cost effective in in light of the Client's requirements and the near-surface target mineralization found by trenching in the detail grid area. The writer thus elected to simply mark on the map the positions of conductors, as determined by the calculations, and then interpolate conductor axes between anomalies.

Existing profiles were then used to qualify conductor systems with respect to conductance and strength. A rough guide as to priority for follow-up was suggested.

3. Discussion and Conclusions

3.1 Reconnaisance Survey Lines (Geophysical Grid)

With the exception of conductor systems "A", "B", "C", "D" and "E", on the VLF-EM prolfile map, all anomalies on the widely spaced lines are weak, near surface and show low conductance. They are therefore likely to be caused by overburden, formational conductivity, fault zones or geologic contacts and are given a low priority for follow-up.

Systems "A" through "E" are stronger and show higher conductance and thus

...2

may represent mineralized faults or fractures. These systems are classed as second priority for future investigation.

3.2 Detail Grid (Geochemistry Grid Area)

A number of mineralized zones found by geochemical surveys and trenching within the detail area appear, for the most part, to lie coincident with interpreted conductor axes. Anomalies within the detail area, especially those lining up with known mineralization, should be considered as top priority for drilling or additional trenching. Anomalies coded as solid ovals (as opposed to open ovals or question marks) are considered to be the strongest and warrant early attention.

Since east-west and north-south trending faults are believed to exist in this general area it is possible that the VLF EM conductors found within the detail grid may represent fractures filled with metallic sulphides. These fractures may be part of a major fault or shear zone continuing north and south off the survey area. This conclusion is supported by a continuation of conductivity north and south from the detail grid.

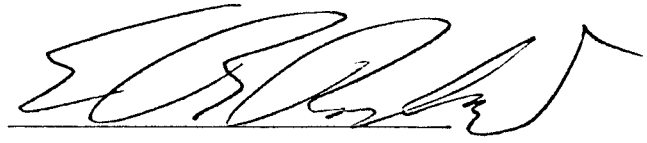
VLF EM profiles within the detail area suggest to the writer that, although mineralization occurs near surface, it may extend to a reasonable depth. In addition it is suspected, from the slope of the inflection points of anomalies, that the majority of VLF EM response has come from below the weathered surface mineralization found in trenches to be coincident with EM conductors.

A number of east-west interpreted faults have been suggested and are shown on the map to offset certain conductor systems. With the present survey line direction it cannot be determined if these east-west faults are mineralized. If this is suspected then a VLF EM survey on lines perpendicular to the present line direction would be a cost effective way of testing this possibility.

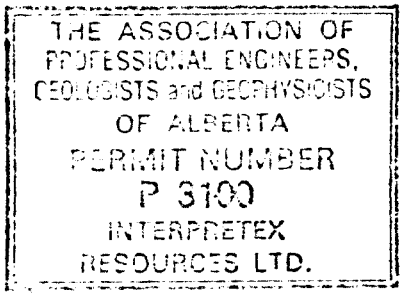
RESPECTFULLY SUBMITTED

INTERPRETEX RESOURCES LTD.

CALGARY, ALBERTA, CANADA



EDWIN R. ROCKEL
Consulting Geophysicist
B.Sc., P.Geoph., P.Eng.





CERTIFICATE

I, Edwin Ross Rockel, geophysicist of Calgary, Alberta, Canada, hereby certify that:

1. I received a B.Sc. degree in Geophysics from the University of British Columbia in 1966.

2. I have been practising my profession since graduation.

3. I am a Professional Geophysicist registered in the Province of Alberta.

4. I hold no direct interest in or expect to receive any benefits from the mineral property described in this report.

July 17, 1982

Date
Calgary, Alberta

Edwin R. Rockel, B.Sc., P.Geoph.
Interpretex Resources Ltd.

AUTHOR'S NOTE

Data interpreted in this report were accumulated without supervision by Interpretex Resources Ltd. and were supplied by the client to the writer. These data are, except when specified otherwise by the writer, assumed to be reliable and correct and were interpreted using this assumption.



APPENDIX C

SUMMARY OF EXPENDITURES
Rusty Springs, Yukon
Geochemical, Geophysical, Geological,
and Trenching Program
June 14 to July 8, 1982

Pre-Field Preparation			
Airphoto interpretation, base map preparation, hiring, etc.			$ 19,889.86
Personnel			
J. W. Daivs, Project Supervisor	4 days @ $325/diem	1,300.00	
C. Aussant, Project Geologist	24 days @ $250/diem	6,000.00	
D. Thompson, Senior Prospector	19 days @ $175/diem	3,325.00	
A. Morris, Senior Prospector	20 days @ $175/diem	3,500.00	
T. Termuende, Junior Prospector	18 days @ $150/diem	2,700.00	
D. Hoy, Junior Prospector	18 days @ $150/diem	2,700.00	
J. Bankowski, Junior Prospector	24 days @ $150/diem	3,600.00	
M. Boucher, Camp Cook	18 days @ $120/diem	2,160.00	25,285.00
Camp and Accommodation			
Camp Food	142 man days @ $25/man day	3,550.00	
Equipment	142 man days @ $ 5/man day	710.00	
Disposable supplies		1,153.22	
Fuel (propane and turbo)		1,130.22	6,543.44
Equipment Rentals			
Geonics VLF-EM-16 (two units)	2 units x 24 days @ $18/diem	864.00	
GeoMetrics magnetometer	24 days @ $20/diem	480.00	
SBX-11 transceiver radio	24 days @ $ 8/diem	192.00	
Mobile radio/antenna	24 days @ $10/diem	240.00	1,776.00
Trenching			
D. Tremblay, catskinner	59 hours @ $20/hour	1,180.00	
"cat" repairs		1,991.01	3,171.01

Summary of Expenditures

Geochemical Analyses		
Loring Labs - soil samples analyzed for Ag, Pb, Cu, Zn	8,057.60	
Loring Labs - chip samples analyzed for Au, Ag, Pb, Cu, Zn	2,675.75	10,733.35
Transportation and Travel		
Fixed-wing support	17,966.36	
Travel expenses	7,122.30	25,088.66
Miscellaneous		
Expediting	1,932.50	
Freight & courier	1,652.06	
Maps, reports, reproductions, telephone and radio-telephone calls	1,342.35	4,926.91
Post-Field Compilation		
Preparation of maps and reports, drafting, secretarial, reproductions		12,514.50
Handling Charges @ 12% of third-party expenses		4,959.54
	GRAND TOTAL	$ 114,888.27

I, CLAUDE H. AUSSANT, HEREBY CERTIFY THIS "SUMMARY OF EXPENDITURES" AS BEING CORRECT.

Claude Aussant

SWORN BEFORE ME AT THE CITY OF CALGARY, IN THE PROVINCE OF ALBERTA, THIS 22ND DAY OF NOVEMBER, AD 1982

W. ROY SHOULDICE
BARRISTER AND SOLICITOR

A NOTARY PUBLIC IN AND FOR THE PROVINCE OF ALBERTA.

PERSONNEL

Name	Address	Field Time	
J. W. Davis	3220 Oakwood Dr. S.W. Calgary, Alberta T2V 0J9		4 days
C. H. Aussant	31 Templebow Way N.E. Calgary, Alberta T1Y 5B5	June 14 - July 8	24 days
D. Thompson	2683 Panorama Drive N. Vancouver, B.C. V7G 1V7	June 20 - July 8	19 days
A. Morris	P. O. Box 1437 Golden, B.C. V0A 1H0	June 20 - July 9	20 days
T. Termuende	Wild Horse Farm Fort Steele, B.C. V0B 1N0	June 21 - July 8	18 days
D. Hoy	4831 Steveston Highway Richmond, B.C. V7E 2K4	June 21 - July 8	18 days
J. Bankowski	4524 Brisebois Dr. N.W. Calgary, Alberta T2L 2G4	June 14 - July 8	24 days
M. Boucher	General Delivery Calgary, Alberta	June 21 - July 8	18 days
D. Tremblay	General Delivery Inuvik, N.W.T.		59 hours

LORING LABORATORIES LTD.
629 Beaverdam Rd. N.E.
Calgary, Alberta T2K 4W2
Phone 274-2777

Cu, Pb, Zn Assays on A.A.

1) .5 gm. sample in 150 ml beaker
2) Wet with H_2O
3) Add 10 ml HNO_3 + 10 ml HCl + 5 ml $HClO_4$
4) Boil to perchloric fume
5) Take off and let cool
6) Add 10 ml HCl, boil and filter into 200 ml flasks. (#2 filter paper & paper pulp)
7) Use appropriate standards for the 3 elements

LORING LABORATORIES LTD.
629 Beaverdam Rd. N.E.
Calgary 67, Alberta
Phone 274-2777

FIRE ASSAYING OF GOLD & SILVER

A ½ or 1 assay ton of -100 mesh pulp is weighed into a 30 gram crucible. The sample is fluxed according to the minerology of the sample.

i.e.: For siliceous ores make monosilicate slags.

For basic ores containing any of the following: Fe_2O_3, Fe_3O_4, $CaCO_3$, $MgCO_3$ or MnO_2 make bisilicate slags.

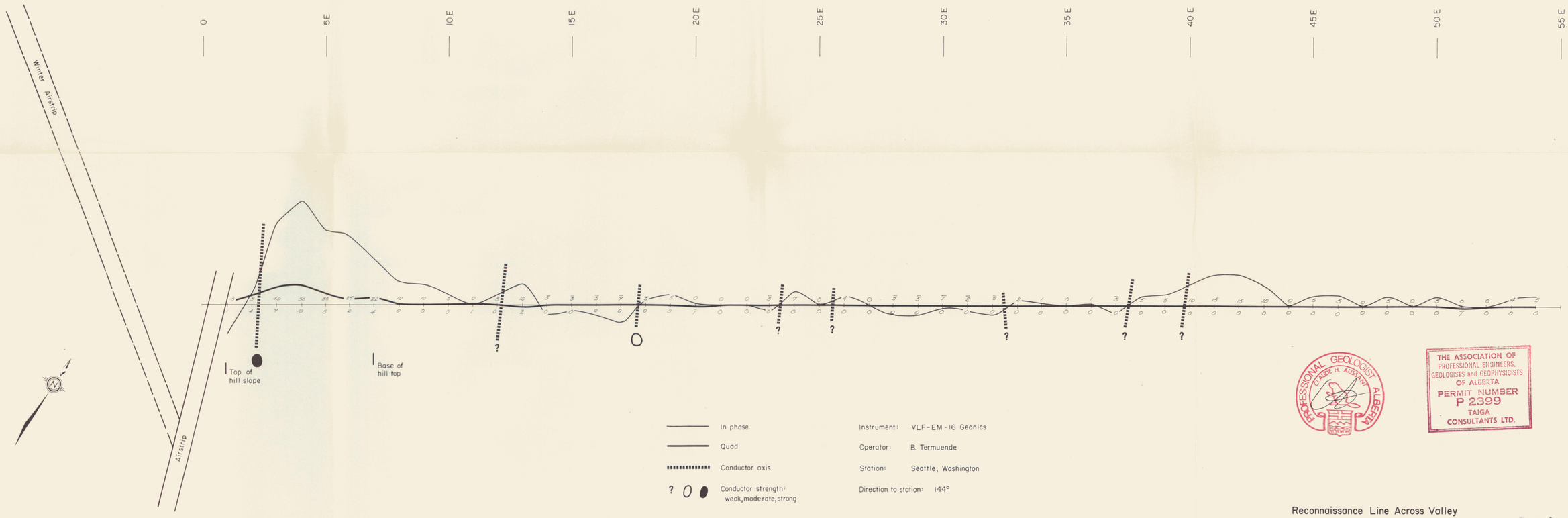
For basic ores containing any of the following: Pb, Zn Fe, As, Sb, Cu and Te make mono or sesquisilicate slags.

FUSING

Crucibles are loaded into a muffle at 1650°F. Temperature is turned up to 1900°F of 2000°F if heavy sulfides are present. About 1 hour is required to complete the fusion. Crucibles are then poured into conical shaped molds, cooled and then the slag is separated from the lead buttons. The buttons are then cubed for easier handling and cleaning.

CUPELLATION

Cupels are charged in the muffle and heated at 1650°F for 10 minutes. Lead buttons are then charged into the muffle which has a temperature of 1650°. The door is lowered and buttons are allowed to open. When all buttons are open the temperature is lowered to 1400° and as soon as the temperature has reached this point the recorder is set at 1350°F. The temperature shall be turned up to 1500° 5 minutes before the finish. Cupels are removed from the muffle and allowed to cool. Beads are then removed from cupels and then placed into coor cups and then weighed. When all beads are weighed, the silver is then parted from the gold by dissolving it with 1:7 nitric acid. The gold bead is then washed, annealed and weighed. The weight of the gold bead is deducted from the total weight and we have both answers for gold and silver.



PROFESSIONAL GEOLOGIST CLAUDE H. AUSTIN ALBERTA

THE ASSOCIATION OF PROFESSIONAL ENGINEERS, GEOLOGISTS and GEOPHYSICISTS OF ALBERTA
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TAIGA CONSULTANTS LTD.

Reconnaissance Line Across Valley from Airstrip to Iron Occurrence

Figure 10

Scale 1: 2500

091110

Trenches
Sampled interval
Stripped area - not down to bedrock

Dip and strike of bedding
Dip and strike of veining
Geologic contact
Outcrop area
Fault
Anticline
Syncline
VLF-EM conductors
Diamond drill holes
E' E Cross section line

Carboniferous Tertiary

6 Regolith: orange to rusty colouring, highly fragmented, intensely weathered, siliceous, strongly limonitic.

Hart River Formation

5 Siltstone and Shale: lt.grey weathering with occ rusty stains, black carb, slightly arg siltstones, laminated, thinly bedded with minor interbedded carb chert. Thin to med bedded mod well indurated and very well sorted.

4 Chert, brecciated, carbonaceous

unconformity

Devonian

Ogilvie Formation

3 Carbonaceous Dolomite Breccia: grey to buff, occ mottled purple and green weathering, med to dk grey dol, white dolomite infilling, occ pyritic mudstone seams, fetid, siliceous.

3a Unbrecciated, fossiliferous limestone.

2 Crystalline Dolomite Breccia: fine to coarsely crystalline, lt. to med grey to beige dol, grey weathering with white dolomite breccia filling, locally vuggy and porous.

1 Carbonaceous Dolomite Breccia: med to dk grey, white dolomite breccia filling and sub-lithographic, locally fossiliferous.

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PROFESSIONAL GEOLOGIST ALBERTA
CLAUDE H. AUSSANT

KENTON NATURAL RESOURCES CORPORATION

RUSTY SPRINGS, YUKON
ORMA HILL
GEOLOGY

DATE OCTOBER, 1982 | NTS 116K/8,9
PROJECT Y-81-1 | MAPPED/DRAWN BY C. AUSSANT
SCALE 1:2500 | 0 25 50 75 100 METRES
TAIGA CONSULTANTS LTD | MAP 1

091410

KENTON NATURAL RESOURCES CORPORATION

RUSTY SPRINGS, YUKON

MIKE HILL

GEOLOGY

OCTOBER, 1982 116K/8,9

Y-81-1 C. AUSSANT

1:2500 0 25 50 75 100 METRES

2

09141 0

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PROFESSIONAL GEOLOGIST ALBERTA CLAUDE H. ARSENAULT

Dip and strike of bedding

Dip and strike of veining

Geologic contact

Outcrop

Fault

Anticline

VLF - EM conductors

Diamond drill holes

Tertiary

Carboniferous

Devonian

Ordovician

Hart River Formation

Ogilvie Formation

Ogilvie Formation

6 Regolith: orange to rusty colouring, highly fragmented, intensely weathered, siliceous, strongly limonitic.

5 Siltstone and Shale: lt.grey weathering with occ rusty stains, black carb, slightly arg siltstones, laminated, thinly bedded with minor interbedded carb chert. Thin to med bedded med well indurated and very well sorted.

4 Chert, brecciated, carbonaceous

unconformity

3 Carbonaceous Dolomite Breccia: grey to buff, occ mottled purple and green weathering, med to dk grey dol, white dolomite infilling, occ pyritic mudstone seams, fetid, siliceous.

3a Unbrecciated, fossiliferous limestone.

2 Crystalline Dolomite Breccia: fine to coarsely crystalline, lt. to med grey to beige dol, grey weathering with white dolomite breccia fillins, locally vuggy and porous.

1 Carbonaceous Dolomite Breccia: med to dk grey, white dolomite breccia fillins and sub-lithographic, locally fossiliferous.

Barite

Azurite

Smithsonite

Malachite, Azurite

Tetrahedrite

Talus

Mn. malachite staining

Smithsonite throughout

Smithsonite rotted throughout hole

Golena rotted

Golena rotted

78-13 262

78-14 123 (Smithsonite throughout)

78-15 258 (Smithsonite throughout)

78-16 360 (sludge 2.14 oz/ton Ag 10' - 40')

78-17 200' (Smithsonite throughout)

78-18 318 (sludge 7.79 oz/ton Ag@52' Golena rotted)

78-19 123 (Smithsonite throughout)

78-20 200'@60° (Smithsonite rotted throughout hole)

78-21 213'@60° (2"@122' of 22 oz/ton Ag)

78-22 208' (Smithsonite throughout)

78-23 128

78-24

DDH-1 142'@70°

DDH-2 327'@45°

DDH-3 347'@45°

DDH-5 152'@45°

MG-21

MG-22

L55S L51S L47S L44S L43S L42S L41S L40S L39S L38S L37S L35S L31S L25S L23S L19S L16S L15S L14S L13S L12S L11S L10S L9S L8S L7S L6S L5S L4S L3S L1S L00 L1N L2N L3N L4N L5N L6N L7N L8N L9N L13N

2250 2300 2350 2400 2450 2500 2550 2600 2650 2700 2750 2800 2850 2900 2950 3000 3050 3100 3150 1750 1800 1850 1900 1950 2000

Trenches:
- Sampled interval
- Stripped area – not down to bedrock

- VLF-EM anomalies (strong, medium, weak)
- VLF-EM interpreted conductor axis (strong, medium, weak)
- A — Conductor system designation
- Interpreted fault or shear zone

Instrument: VLF-EM 16
Station: Seattle, Wash
Direction to Transmitter: 144°
Operators: Don Hoy, Tony Morris, Tim Termuende, Darryl Thompson
Profiles: 1cm = 10% in phase, out of phase

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PROFESSIONAL GEOLOGIST ALBERTA
CLAUDE H. AUSSANT

KENTON NATURAL RESOURCES CORPORATION

RUSTY SPRINGS, YUKON
ORMA HILL
VLF-EM PROFILES

DATE JULY 1982	NTS 116K/8,9
PROJECT Y-81-1	MAPPED/DRAWN BY C. AUSSANT
SCALE 1:2500	0 25 50 75 100 METRES
TAIGA CONSULTANTS LTD	MAP 3

091410

L13N
L9N
L8N
L7N
L6N
L5N
L4N
L3N
L2N
L1N
L00
L1S
L2S
L3S
L4S
L5S
L6S
L7S
L8S
L9S
L10S
L11S
L12S
L13S
L14S
L18S
L19S
L23S
L25S
L31S
L35S
L37S
L38S
L39S
L40S
L41S
L42S
L43S
L44S
L47S
L51S
L55S

1750 1800 1850 1900 1950 2000 2050 2100 2150 2200 2250 2300 2350 2400 2450 2500 2550 2600

660 30'

VLF-EM anomalies (strong, medium, weak)

VLF-EM interpreted conductor axis (strong, medium, weak)

Interpreted fault or shear zone

Instrument: VLF-EM 16

Station: Seattle, Wash

Direction to Transmitter: 144°

Operators: Don Hoy
Tony Morris
Tim Termuende
Darryl Thompson

Profiles: 1 cm = 10%
In phase
Out of phase

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PROFESSIONAL GEOLOGIST ALBERTA
CLAUDE H. AUSSANT

KENTON NATURAL RESOURCES CORPORATION

RUSTY SPRINGS, YUKON

MIKE HILL

VLF-EM PROFILES

DATE	NTS 116K/8,9
PROJECT Y-81-1	MAPPED/ DRAWN BY
SCALE 1:2500	0 25 50 75 100 METRES
TAIGA CONSULTANTS LTD	MAP 4

091410

Trenches:

Sampled interval

Stripped area – not down to bedrock

Contour interval: 10

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PROFESSIONAL GEOLOGIST
CLAUDE H. AUSSANT
ALBERTA

KENTON NATURAL RESOURCES CORPORATION

RUSTY SPRINGS, YUKON

ORMA HILL
FRASER FILTERED VLF-EM

DATE OCTOBER, 1982	NTS 116K/8,9
PROJECT Y-81-1	MAPPED/ DRAWN BY C. AUSSANT
SCALE 1:2500	0 25 50 75 100 METRES
TAIGA CONSULTANTS LTD	MAP 5

09110



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TAIGA CONSULTANTS LTD.

PROFESSIONAL GEOLOGIST CLAUDE H. AUSSANT ALBERTA

Contour interval 10

KENTON NATURAL RESOURCES CORPORATION

RUSTY SPRINGS, YUKON

MIKE HILL
FRASER FILTERED VLF-EM

DATE OCTOBER, 1982	NTS 116K/8,9
PROJECT Y-81-1	MAPPED/DRAWN BY C. AUSSANT
SCALE 1:2500 (0 25 50 75 100 METRES)	
TAIGA CONSULTANTS LTD	MAP 6

091410

Trenches:
- Sampled interval
- Stripped area – not down to bedrock

Contour intervals:
- 1 ppm
- 5 ppm
- 10 ppm
- 20 ppm
- 30 ppm
- 40 ppm
- 50 ppm

1982 geochem sampling
23.0 previous geochem sampling

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PROFESSIONAL GEOLOGIST ALBERTA
CLAUDE H. AUSSANT

KENTON NATURAL RESOURCES CORPORATION

RUSTY SPRINGS, YUKON
ORMA HILL
SOIL GEOCHEMISTRY - Ag (ppm)

DATE OCTOBER, 1982	NTS 116K/8,9
PROJECT Y-81-1	MAPPED/ DRAWN BY C. AUSSANT
SCALE 1:2500	0 25 50 75 100 METRES
TAIGA CONSULTANTS LTD	MAP 7

091410

Trenches:
Sampled interval
Stripped area - not down to bedrock

Contour intervals:
50 ppm
100 ppm
500 ppm
1000 ppm
2000 ppm
3000 ppm
4000 ppm
5000 ppm
10,000 ppm

1982 geochem sampling
6200
previous geochem sampling
340

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PROFESSIONAL GEOLOGIST CLAUDE H. AUSSANT ALBERTA

KENTON NATURAL RESOURCES CORPORATION

RUSTY SPRINGS, YUKON
ORMA HILL
SOIL GEOCHEMISTRY - Pb (ppm)

DATE OCTOBER, 1982	NTS 116K/8,9
PROJECT Y-81-1	MAPPED/ DRAWN BY C. AUSSANT
SCALE 1:2500	0 25 50 75 100 METRES
TAIGA CONSULTANTS LTD	MAP 8

091410

Trenches:

Sampled interval

Stripped area – not down to bedrock

Contour intervals:

100 ppm
200 ppm
300 ppm
400 ppm
500 ppm
1000 ppm
5000 ppm

1982 geochem sampling

3/6

previous geochem sampling

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PROFESSIONAL GEOLOGIST CLAUDE H. AUSSANT ALBERTA

KENTON NATURAL RESOURCES CORPORATION

RUSTY SPRINGS, YUKON
ORMA HILL
SOIL GEOCHEMISTRY - Zn (ppm)

DATE OCTOBER, 1982	NTS 116K/8,9
PROJECT Y-81-1	MAPPED/ DRAWN BY C. AUSSANT
SCALE 1:2500	0 25 50 75 100 METRES
TAIGA CONSULTANTS LTD	MAP 9

091410

Trenches:
Sampled interval
Stripped area – not down to bedrock

Contour intervals:
50 ppm
100 ppm
250 ppm
500 ppm
1000 ppm

1982 geochem sampling
1120
615
previous geochem sampling

Solena vein (168° strike)
mineralized zone (168° strike)
T-7
T-6
T-3
Winter Airstrip
Airstrip

THE ASSOCIATION OF PROFESSIONAL ENGINEERS, GEOLOGISTS and GEOPHYSICISTS OF ALBERTA
PERMIT NUMBER P 2399
TAIGA CONSULTANTS LTD.

PROFESSIONAL GEOLOGIST
CLAUDE H. AUSSANT
ALBERTA

KENTON NATURAL RESOURCES CORPORATION

RUSTY SPRINGS, YUKON
ORMA HILL
SOIL GEOCHEMISTRY - Cu (ppm)

DATE OCTOBER, 1982	NTS 116K/8,9
PROJECT Y-81-1	MAPPED/ DRAWN BY C. AUSSANT
SCALE 1:2500	0 25 50 75 100 METRES
TAIGA CONSULTANTS LTD	MAP 10

091410

Contour intervals:

- 1 ppm
- 5 ppm
- 10 ppm
- 20 ppm
- 30 ppm
- 40 ppm
- 50 ppm

Previous geochem sampling

1982 geochem sampling

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ALBERTA

KENTON NATURAL RESOURCES CORPORATION

RUSTY SPRINGS, YUKON

MIKE HILL

SOIL GEOCHEMISTRY - Ag (ppm)

DATE OCTOBER, 1982	NTS 116K/8,9
PROJECT Y-81-1	MAPPED/ DRAWN BY C. AUSSANT
SCALE 1:2500	0 25 50 75 100 METRES
TAIGA CONSULTANTS LTD	MAP 11

091410

Contour intervals:

- 50 ppm
- 100 ppm
- 500 ppm
- 1000 ppm
- 2000 ppm
- 3000 ppm
- 4000 ppm
- 5000 ppm
- 10,000 ppm

1982 geochem sampling

743

previous geochem sampling

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PROFESSIONAL GEOLOGIST ALBERTA
CLAUDE H. AUSSANT

KENTON NATURAL RESOURCES CORPORATION

RUSTY SPRINGS, YUKON

MIKE HILL

SOIL GEOCHEMISTRY - Pb (ppm)

DATE OCTOBER, 1982	NTS 116K/8,9
PROJECT Y-81-1	MAPPED/ DRAWN BY C. AUSSANT
SCALE 1:2500	0 25 50 75 100 METRES
TAIGA CONSULTANTS LTD	MAP 12

091410

Contour Intervals:

- 100 ppm
- 200 ppm
- 300 ppm
- 400 ppm
- 500 ppm
- 1000 ppm
- 5000 ppm

1982 geochem sampling

previous geochem sampling

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CLAUDE H. AUSSANT

KENTON NATURAL RESOURCES CORPORATION

RUSTY SPRINGS, YUKON

MIKE HILL

SOIL GEOCHEMISTRY - Zn (ppm)

DATE OCTOBER, 1982	NTS 116K/8,9
PROJECT Y-81-1	MAPPED/ DRAWN BY C. AUSSANT
SCALE 1:2500	0 25 50 75 100 METRES
TAIGA CONSULTANTS LTD	MAP 13

091410

Contour intervals:
50 ppm
100 ppm
250 ppm
500 ppm
1000 ppm

1982 geochem sampling
5/6 previous geochem sampling 401

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PROFESSIONAL GEOLOGIST ALBERTA
CLAUDE H. AUSSANT

KENTON NATURAL RESOURCES CORPORATION

RUSTY SPRINGS, YUKON
MIKE HILL
SOIL GEOCHEMISTRY - Cu (ppm)

DATE OCTOBER, 1982	NTS 116K/8,9
PROJECT Y-81-1	MAPPED/ DRAWN BY C. AUSSANT
SCALE 1:2500	0 25 50 75 100 METRES
TAIGA CONSULTANTS LTD	MAP 14

091410