Geological, Prospecting, and Geochemical Report
on the
PARADIGM PROPERTY
PARADIGM 2 and MIKHAIL 2 Mineral Claims
Skeena Mining Division
N.T.S. 104-B/10E
Latitude 56°34' North
Longitude 130°33' West
British Columbia

November 6, 1989

on behalf of

LOKI GOLD CORPORATION
Vancouver, B.C.

and

ROCKY MOUNTAIN ENERGY CORP.
Denver, Colorado

by

C. H. Aussant, B.Sc., P.Geol., F.GAC
- and -
D. G. DuPré, B.Sc., P.Geol., F.GAC
KEEWATIN ENGINEERING INC.
#800, 900 West Hastings Street
Vancouver, B.C. V6C 1E5

ABSTRACT

The Paradigm property consists of two modified-grid claims totalling 30 units located approximately 80 km northwest of Stewart, British Columbia. Access to the property is by fixed-wing aircraft from Terrace, Stewart, or Smithers to various airstrips in the area and then via helicopter to the property.

The property lies within the Intermontaine Tectono-Stratigraphic Belt and occurs near the contact between the Stikine Terrane and the unmetamorphosed sediments of the Bowser Basin. The property is underlain predominantly by Lower Jurassic supracrustal rocks of the Betty Creek Formation, consisting of inter-bedded volcanics with lesser sediments. The north-south trending Harrymel-South Unuk shear zone transects the western property boundary and separates the Upper Triassic Stuhini Group sedimentary rocks occurring directly west of the claims, from the Lower Jurassic rocks underlying the property. Geological mapping completed during the 1989 exploration program indicates that the western half of the MIKHAIL 2 claim may be underlain by the Stuhini Group.

The area has an exploration history dating back to the turn of the century when prospectors passed through the region on their way to the interior. In the 1970's, the porphyry copper boom again brought prospectors and companies into the area. The current gold exploration rush began in 1980 with the option of the Sulphurets property by Esso Minerals Canada and the acquisition of the Johnny Mountain claims by Skyline Exploration Ltd. which was brought into production in mid-1988. The adjacent SNIP property is slated for production in 1990.

At this time, the Eskay Creek prospect, located 10 km northeast of the Paradigm property and currently being explored by Calpine and Consolidated Stikine, is the most significant showing in the area. The prospect comprises at least eight mineralized zones occurring over a strike length of 1800 m within a sequence of felsic volcanics. The mineralization is associated with disseminated sulphides in felsic volcanic breccias and graphitic argillites in contact with overlying intermediate volcanic rocks.

A review of all available information indicates that the entire Unuk River area was subjected to reconnaissance geological mapping and prospecting by Newmont Mines Ltd. in 1959-1962 which led to the discovery of the Harrymel Creek copper showing which is reportedly located on the MIKHAIL 2 claim. Field investigations did not locate any mineralization in this area.

An airborne electromagnetic and magnetic survey was conducted over the PARADIGM 2 claim in 1988. Interpretation of the data confirmed the regional geological mapping but indicated further faulting, hydrothermal alteration, and potential sulphide mineralization. In August 1989, a reconnaissance stream silt sampling program was completed on the PARADIGM 2 claim. Samples collected from the central portion of the claim yielded weakly elevated As and Ag values.

The 1989 exploration program consisted of helicopter-supported reconnaissance prospecting, geological mapping, and geochemical sampling with the objective of evaluating the property's potential for hosting economic precious metals deposits. This work was concentrated in the upland areas and in the drainage courses where rock exposures were most abundant.

Reconnaissance prospecting and lithogeochemical/stream silt sampling were completed over selected parts of the MIKHAIL 2 claim, but did not yield any anomalous precious or base metals values. One heavy mineral sample, from a creek in the northern part of the claim, yielded an anomalous gold value of 2238 ppb. However, this creek originates beyond the property boundary, consequently, this elevated gold value may be due to mineralization located adjacent to the property area.

Extensive stream silt sampling combined with reconnaissance prospecting and lithogeochemical sampling was completed along the numerous drainage courses which cut across the PARADIGM 2 claim and in the upland areas. A number of lithogeochemical samples yielded elevated to anomalous Au, Ag, and/or As values, and several stream silt samples yielded elevated Ag or As values. Heavy mineral samples collected from creeks draining the southern half of the claim yielded elevated Ag, As, Cu, or Zn values, with one sample containing a gold value of 540 ppb.

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INTRODUCTION

Loki Gold Corporation of Vancouver, and Rocky Mountain Energy Corp. of Denver, Colorado commissioned Keewatin Engineering Inc. to conduct a field exploration program on the Paradigm property located in the Unuk River area of northern British Columbia. Exploration was directed by Keewatin with field supervision and geological support provided by Taiga Consultants Ltd. as a sub-contractor to augment the Keewatin crew.

The objective of this program was to evaluate the property's potential for hosting economic precious metals deposits. Exploration consisted of prospecting, geological mapping, and geochemical sampling. Geochemistry consisted of lithogeochemical, stream silt, and heavy mineral sampling.

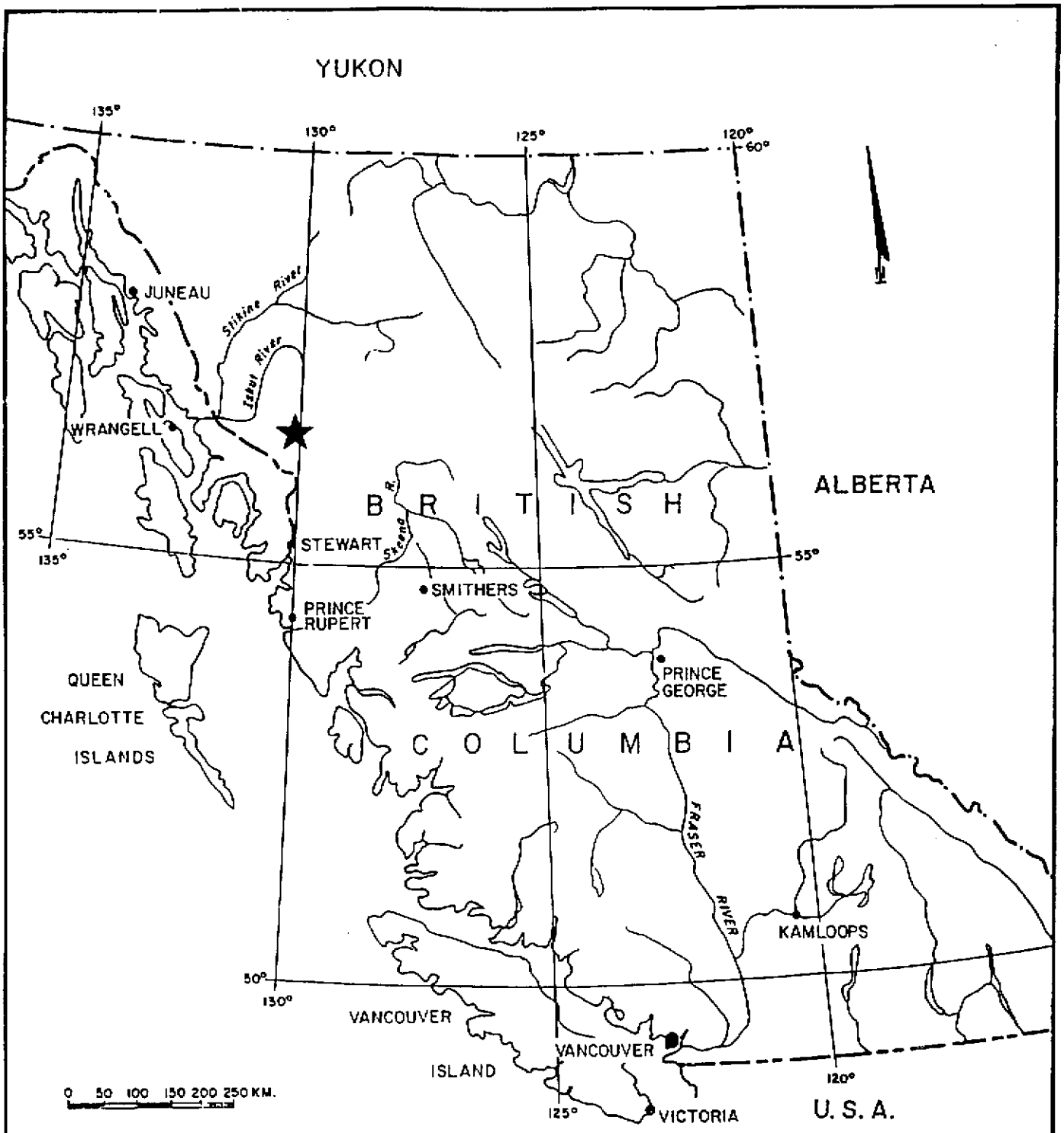
Location and Access

The Paradigm property is located in northwestern British Columbia, approximately 80 km northwest of Stewart (Figure 1). The claims are situated within N.T.S. map-sheet 104-B/10E and centered about 56°34' North latitude and 130°33' West longitude. Access to the property is by fixed-wing aircraft from Terrace, Stewart, or Smithers to various airstrips in the area and then via helicopter to the property. The claims can also be directly accessed by helicopter from Stewart.

At some future date, road access to the area from the Stewart-Cassiar Highway could be obtained via the Upper Unuk River and Tiegen Creek valleys.

Property Status and Ownership

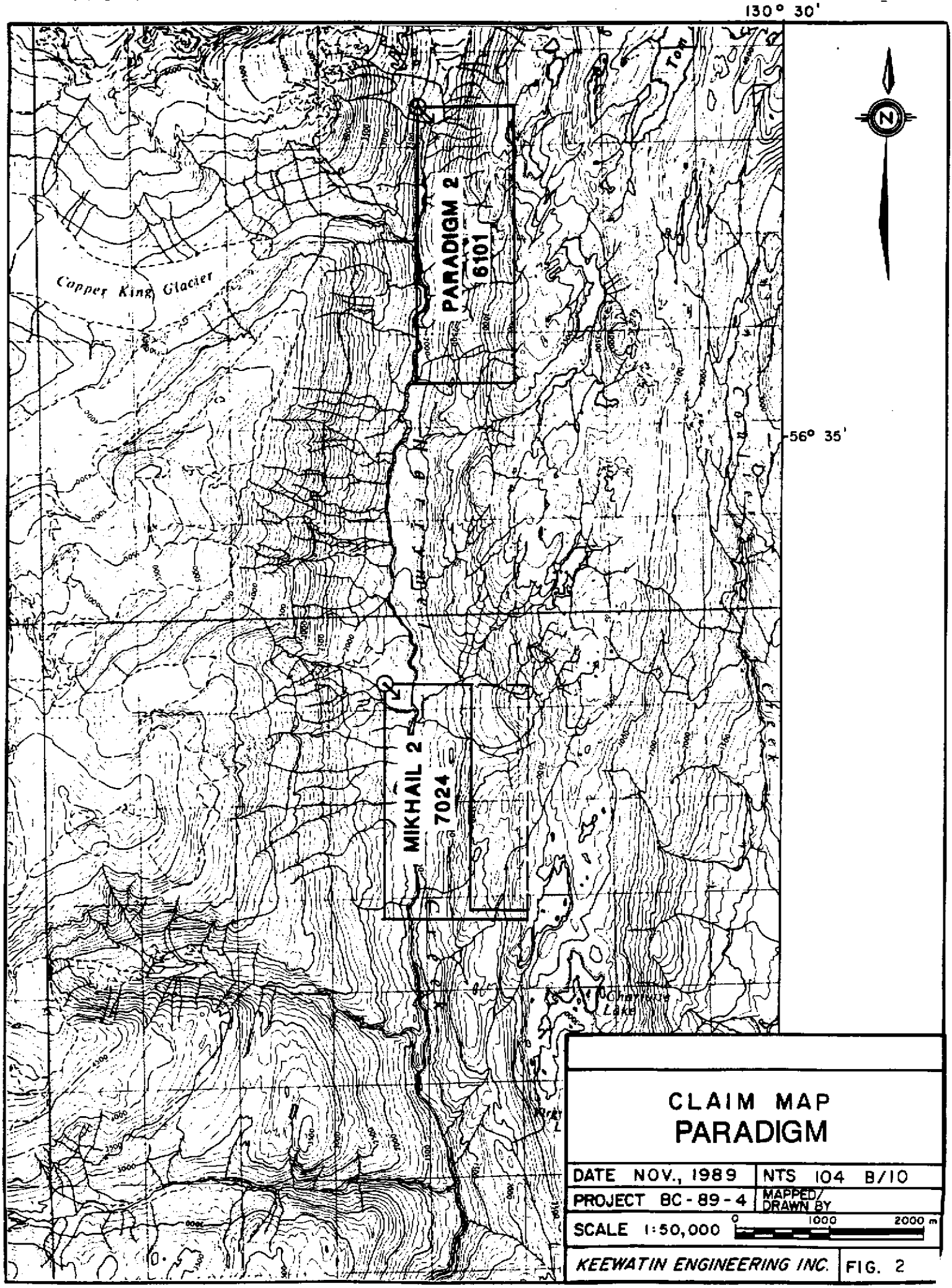
The Paradigm property (Figure 2) consists of two modified-grid claims totalling 30 units, located within the Skeena Mining Division. Relevant claims data are tabulated below:



★ PROPERTY LOCATION MAP

Figure I

KEEWATIN ENGINEERING INC.



CLAIM MAP
PARADIGM

DATE NOV., 1989	NTS 104 B/10
PROJECT BC-89-4	MAPPED/ DRAWN BY
SCALE 1:50,000	0 1000 2000 m
KEEWATIN ENGINEERING INC.	FIG. 2

Claim Name	Record Number	No.of Units	Date of Record	Expiry Date
PARADIGM 2	6101	12	Apr.28,1987	1990
MIKHAIL 2	7024	18	Dec. 5,1988	1989

These claims are apparently the subject of an agreement between the claim holders (Teuton Resources Inc.) and Winslow Gold Corp., which has recently optioned the property to Loki Gold Corporation and Rocky Mountain Energy Corp. The claim map shows that part of the PARADIGM 2 claim was subsequently over-staked by a series of two-post claims along Harrymel Creek.

Physiography and Climate

The Paradigm property is situated within the Coast Range Physiographic Division and is characterized by northern rain forests and sub-alpine plateaux. The north-south trending U-shaped Harrymel Creek valley occurs along the western boundary of the two claims. Elevations (see Figure 2) range from 455-610 m in the valley of Harrymel Creek to 1065 m in the eastern part of the property.

A transitional treeline, characterized by dense sub-alpine scrub, meanders through the property at approximately the 915 m elevation. Terrain above treeline is typified by intermontane alpine flora. Conifers up to 30 m tall are common below treeline, especially in stream valleys. Water for camp and drilling purposes is generally in good supply from the numerous creeks draining the claim area.

Precipitation is heavy, exceeding 200 cm per annum, with short mild summers but very wet spring and fall periods. Thick accumulations of snow are common during winter. It is seldom possible to begin surface geological work before July and difficult to continue past September.

PREVIOUS EXPLORATION

The area drained by the upper reaches of the Stikine, Iskut, Unuk, Craig, and Bell-Irving Rivers has been explored for gold since the late 1800's when prospectors passed through the region on their way to the interior. In the 1970's, the porphyry copper boom again brought prospectors and companies into the area. The current gold exploration rush began in 1980 with the option of the Sulphurets property by Esso Minerals Canada and the acquisition of the Johnny Mountain claims by Skyline Explorations Ltd. The Johnny Mountain deposit was brought into production in mid-1988, and the adjacent SNIP property is slated for production in 1990.

The mineralization at Eskay Creek was discovered in 1932, and active prospecting has continued sporadically since then. Two adits are the result of limited mining activity on this prospect. In 1988, Calpine Resources Incorporated discovered high-grade gold and silver mineralization on the '21 Zone' (*Northern Miner*, November 7, 1988). A number of excellent diamond drill intersections have been obtained to date, including drill hole CA-88-06 which encountered 96 feet of 0.752 oz/ton gold and 1.13 oz/ton silver. Based on the results of 70 drill holes completed to June 1, 1989, a preliminary geological ore reserve of 2.8 million tons grading 0.23 oz/ton gold and 3.3 oz/ton silver has been calculated for the '21 Zone' (Consolidated Stikine Silver Ltd. - 1989 Annual Report).

The Unuk River area was covered by regional geological mapping in 1988 as part of the Iskut-Sulphurets project carried out by B.C. Ministry of Energy, Mines and Petroleum Resources (Britton, et al.,1989). The whole of N.T.S. 104-B is currently being mapped by R. G. Anderson of the Geological Survey of Canada (Anderson, 1989).

The results of a regional stream sediment sampling program conducted over this area were released in July 1988 (National Geochemical Reconnaissance, 1988). Britton (et al.) report that almost every known precious metal prospect in the Unuk River area is associated with high stream sediment gold values. Known gold deposits are also associated with high but variable values for such

pathfinder elements as silver, arsenic, antimony, and barium. One stream sediment sample (#871300) was collected from a stream draining the property, and yielded elevated to anomalous values in arsenic (590 ppm) and antimony (20.0 ppm).

A review of the material in the B.C. Ministry of Energy, Mines and Petroleum Resources assessment report archives indicates that the entire Unuk River area was subjected to reconnaissance geological mapping and prospecting by Newmont Mines Ltd. during the period 1959 to 1962. This work led to the discovery of Harrymel Creek copper showing (Minfile #080) which is reportedly located on the MIKHAIL 2 claim. Field investigations did not locate any mineralization in this area.

The assessment records (Korenic, 1982) indicate that Duval Corp. undertook a regional heavy mineral survey in the Unuk River area in 1981.

In 1988, an airborne electromagnetic and magnetic survey was flown over the PARADIGM 2 claim. The interpretation of the magnetic and VLF-EM data confirms the geological mapping by Britton et al.(1989). However, the airborne geophysical survey has indicated further faulting, hydrothermal alteration, and potential sulphide mineralization. One strong VLF-EM conductive zone was found in the northeast corner of the PARADIGM 2 claim, located along the flank of a magnetic high. This conductor may be caused by pyrite mineralization which is fairly common in the area.

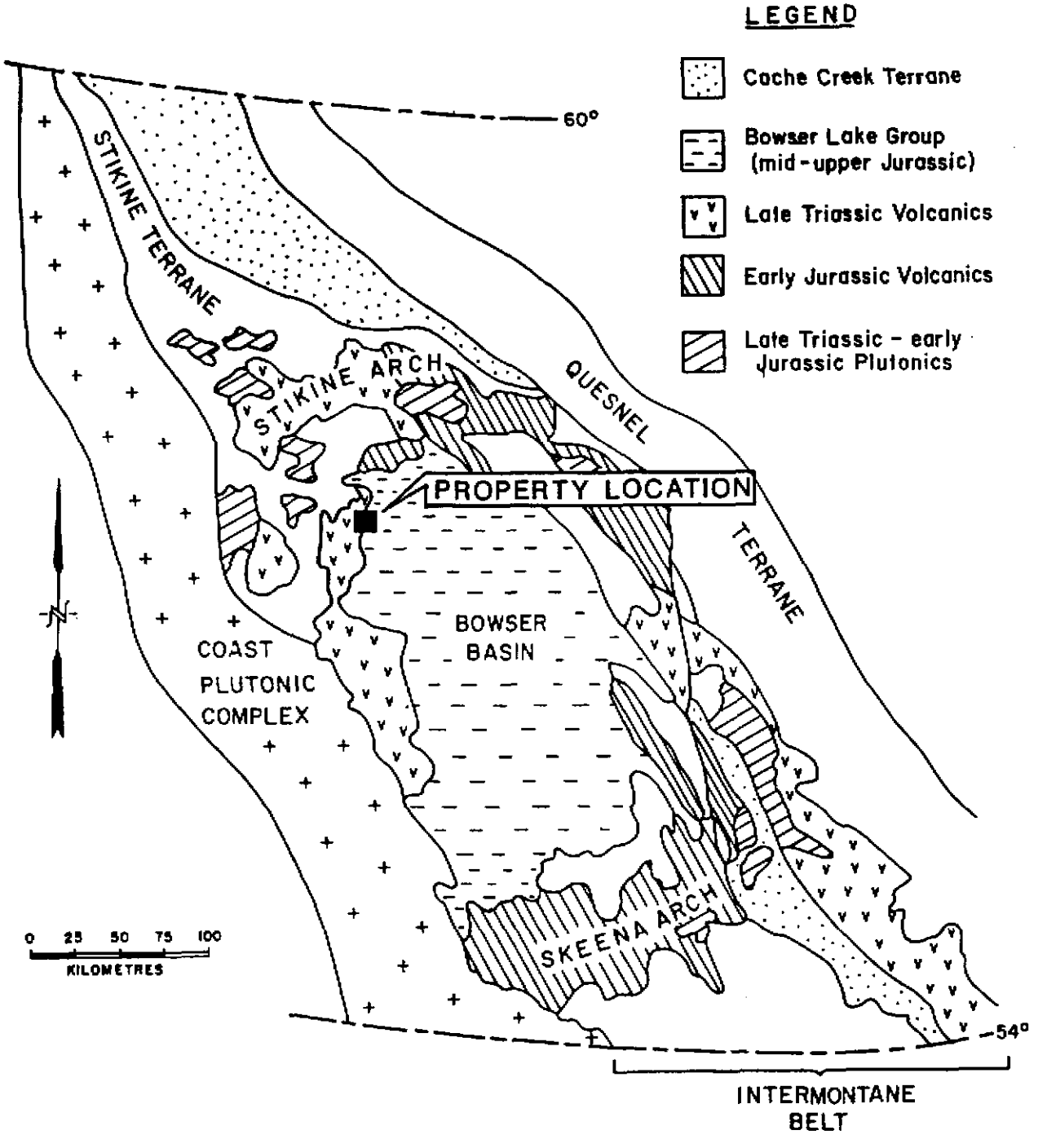
In August 1989, a reconnaissance stream silt sampling program was completed on the PARADIGM 2 claim. Six samples collected from the central portion of the claim yielded weakly elevated arsenic values (45 to 108 ppm), two of which also contained elevated silver values (1.2 and 2.5 ppm).

REGIONAL GEOLOGY

The property lies within the Intermontane Tectono-Stratigraphic Belt, one of five parallel northwest-southeast trending belts which comprise the Canadian Cordillera (Figure 3). The Paradigm property occurs near the contact between the Stikine Terrane, which makes up most of the western part of the Intermontane Belt, and the unmetamorphosed sediments of the Bowser Basin.

The Unuk River area (Figure 4) is underlain by a thick succession of Upper Triassic to Lower Jurassic volcano-sedimentary arc complex lithologies capped by Middle Jurassic marine basin lithologies. This package has been intruded by a variety of plutons representing at least four intrusive episodes spanning late Triassic to Tertiary time. These include synvolcanic plugs, small stocks, dyke swarms, isolated dykes and sills, as well as batholiths belonging to the Coast Plutonic Complex.

The stratigraphic sequence has been folded, faulted, and weakly metamorphosed during Cretaceous time, but some Triassic strata are polydeformed and may record an earlier deformational event. Remnants of Pleistocene to Recent basaltic flows and tephra are preserved locally.

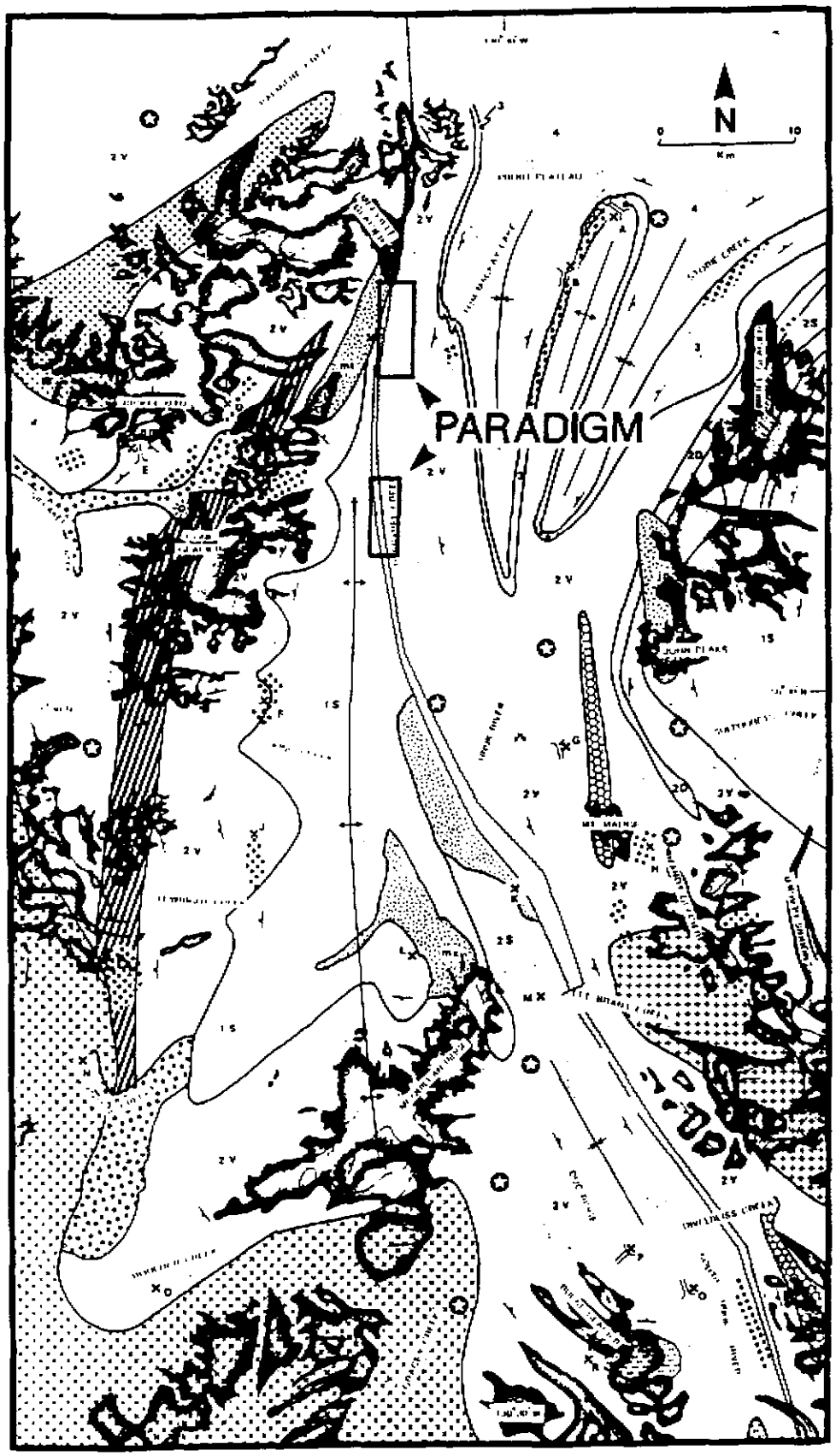


REGIONAL GEOLOGY
BOWSER BASIN
NW BRITISH COLUMBIA

(Outline of terrane boundaries and major rock groups of the Jurassic and Triassic – modified from Thomson, 1985).

Figure 3

KEEWATIN ENGINEERING INC.



LEGEND

INTRUSIVE ROCKS

- Eocene — King Creek Dyke Swarm
- Eocene — Coast Plutonic Complex
- Eocene — Lee Brant Stock
- Jurassic — Lehto Porphyry
- L Jurassic to U Triassic — Diorite and Gabbro: Nickel Mountain (nm), John Peaks (jp), Melville (mv), Max (mx)
- U Triassic — Meta-quartz-diorite

STRATIFIED ROCKS

- Recent to Pleistocene — Basalt Flows and Tephra
- M Jurassic — 4 — Marine-basin Turbidites
- 3 — Felsic Pyroclastics
- L Jurassic — 2 — D = Dacite Marker; V = Andesitic Volcanics (with <40% sediments); S = Sediments (with <40% volcanics)
- U Triassic — 1 — V, S

SYMBOLS

- Compositional layering (bedding, foliation)
- Contact
- Anticline, syncline
- Harrymel-South Unuk shear
- Pillow lavas
- Recent volcanic vent
- Gossan
- Adit
- Stream sediment gold values >90th percentile
- Mineral occurrence
- Placer occurrence

MINERAL OCCURENCES

	NAME	COMMODITY
A	*Emma*	Au,Ag,Pb,Zn,Cu
B	MacKay	Au,Ag,Pb,Zn,Cu
C	Copper King	Cu,Fe
D	Colagh	Cu
E	E&L Nickel	Ni,Cu
F	Cole	Cu,Au,Ag
G	Cumberland/Daly	Au,Ag
H	Mt. Madge (C-10)	Au,Ag,Zn
I	Mt. Madge (GFJ)	Au,Ag,Cu,Zn
J	VV	Cu,Mo,Au,Ag
K	Chris & Anne	Cu,Fe
L	Max	Fe,Cu
M	Unuk Jumbo	Fe,Cu
N	Black Bear	Au,Pb,Zn
O	Boulder Creek	Pb,Zn,Au,Cu
P	Doc	Au,Ag,Pb,Cu
Q	Globo	Au,Ag,Pb,Cu
R	Ali	Au,Ag

NOTE: Not to scale

Geology and mineral deposits, Unuk map area.

Modified after Britton et. al. (1989)

PROPERTY GEOLOGY

Figure 4

PROPERTY GEOLOGY

Regional geological mapping by Britton et al.(1989) shows that the claims are underlain predominantly by Lower Jurassic supracrustal rocks (Figure 5). The north-south trending Harrymel-South Unuk shear zone transects the western property boundary and separates the Upper Triassic rocks occurring directly west of the property from the Lower Jurassic rocks underlying the property. The distribution of map-units suggests that the rocks to the west of the major shear zone dip shallowly to the west, while units in the eastern part of the property display a moderate easterly dip.

Upper Triassic Stuhini Group (Unit 1)

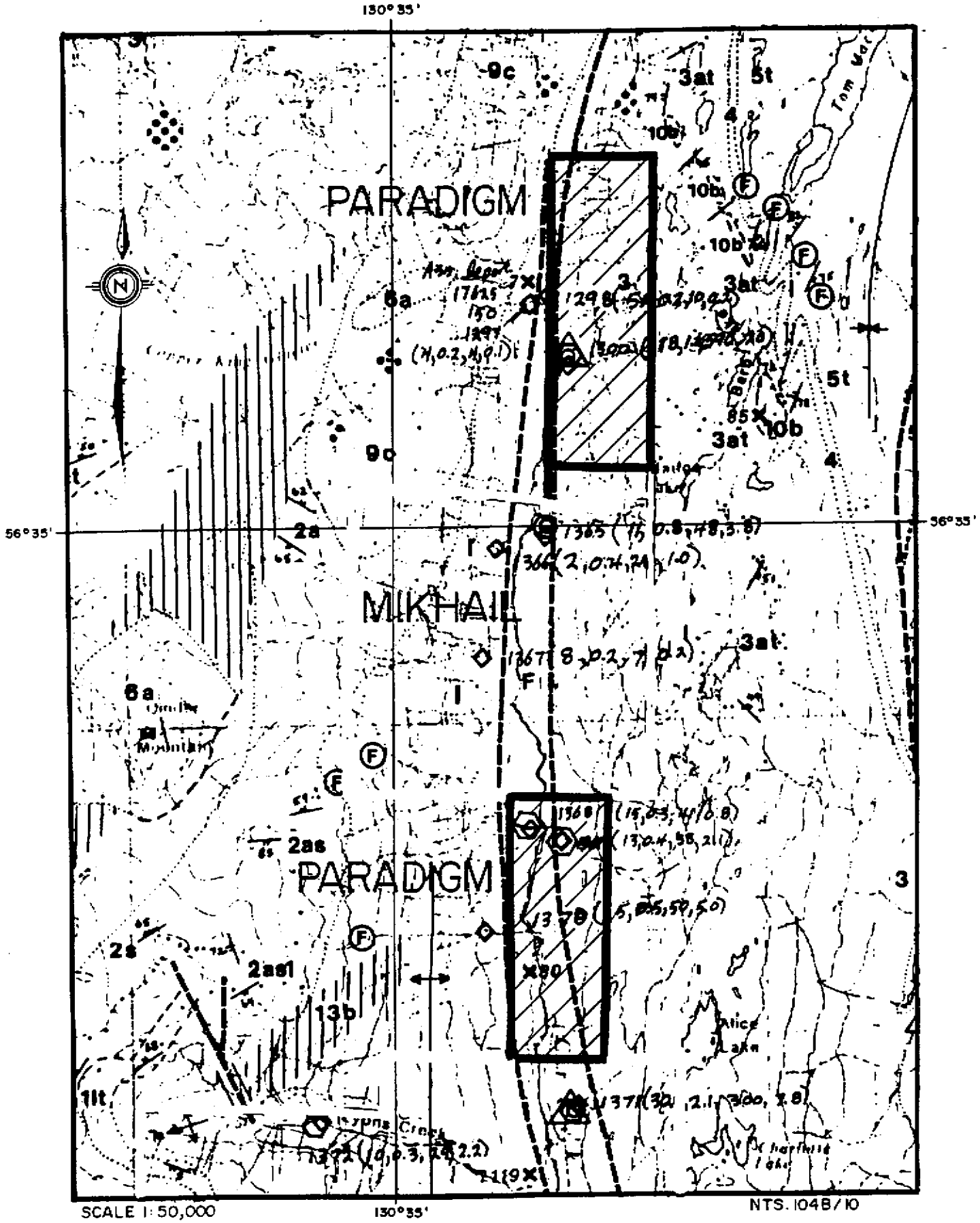
The Stuhini Group rocks occupy the nose of a north-plunging anticline, and occur as a wedge between the Harrymel-Unuk shear zone and the overlying Unuk River Formation. These rocks underlie the area immediately west of the claims. Geological mapping completed during the current exploration program indicates that this unit probably underlies the western half of the MIKHAIL 2 claim. The Stuhini Group rocks consist of thin bedded siltstones, immature fine-grained wackes, chert, impure limestones, and andesitic tuffs that locally attain a considerable thickness. Andesitic tuffs may be laminated to massive, aphanitic to hornblende-feldspathic. Limestones occur as thin beds or discontinuous lenses that show extensive recrystallization and highly disrupted internal structure. Fossil evidence led Britton et al.(1989) to ascribe a Carnian to Norian age to these rocks.

Upper Triassic to Lower Jurassic Unuk River Formation (Unit 2)

These Norian to Sinemurian age rocks of the Unuk River Formation constitute the lowermost unit of the Hazelton Group. Britton et al.(1989) described this sequence as green and grey intermediate to mafic volcaniclastics and flows with locally thick interbeds of fine-grained immature sediments. The volcanics are reported to be dominantly massive to poorly bedded plagioclase (± hornblende) porphyritic andesite. The sediments are predominantly grey, brown, and green thinly bedded tuffaceous siltstone and fine-grained wacke. The basal contact with Triassic strata appears to lie near the top of a thick sequence of clastic sedimentary rocks. Neither an angular unconformity nor a widespread conglomerate marks the lower contact. This unit is not mapped on the property but is incorporated in the report for the sake of completeness.

Lower Jurassic Betty Creek Formation (Unit 3)

A Pleinsbachian to Toarcian age is assigned to this unit by Britton et al.(1989). This pyroclastic-epiclastic sequence is comprised of a sequence of



(Modified after Britton et.al.(1989)

PROPERTY GEOLOGY

PARADIGM PROPERTY

Figure 5

KEEWATIN ENGINEERING INC.

LEGEND

INTRUSIVE ROCKS

TERTIARY

13 POST-TECTONIC DYKES

- 13a Lamprophyre, andesite, diabase (dykes and stocks)
- 13b *Ring Creek Dyke Swarm:* feldspar porphyry dacite, andesite, diabase, quartz diorite
- 13c Hornblende monzonite; fine-grained basalt-andesite

12 COAST PLUTONIC COMPLEX

- 12a Biotite granite
- 12b Hornblende-biotite quartz diorite
- 12c *Late Great Bear:* K-feldspar porphyry, hornblende-biotite quartz monzonite

JURASSIC

11 MOBEL MOUNTAIN GABBRO: melanocratic olivine-pyroxene gabbro

10 SYN TO POST-VOLCANIC INTRUSIONS: Porphyritic to phaneritic textured; partially hydrothermal equivalents of extrusive rocks

- 10a *Lotus Porphyry:* K-feldspar-porphyritic hornblende porphyry granodiorite to syenite
- 10b *Stag Lake Dyke:* fine- to medium-grained hornblende diorite
- 10c Andesite-Dacite Complex: melanocratic, fine- to medium-grained dioritic rock; abundant inclusions of dark green meso-andesite; (possibly Telkwa)

9 *UNUK RIVER DIORITE SUITE:* medium- to coarse-grained, mafic to melanocratic rocks

- 9a *John Peaks melanocratic* hornblende diorite
- 9b *May Queen-hornblende* diorite; quartz diorite
- 9c Mixed hornblende-biotite diorite to quartz diorite
- 9d *Dan Ridge* biotite monzodiorite

TRIASSIC

8 *SUCKE GLACIER STOCK:* light grey, granular to foliated, medium-grained hornblende-biotite quartz diorite

METAMORPHIC ROCKS

A - F METAMORPHIC EQUIVALENTS OF UNITS 1, 2 OR 3

- A *Marginal:* dark grey, porphyroblastic quartz-feldspar-carbon phyllite
- B Felsic metavolcanics: fine green/quartz-albite-chlorite-sericite phyllite; locally with dispersed lapilli
- C Mafic to intermediate metavolcanics: dark green, porphyroblastic chlorite phyllite
- D *Hornblende-porphyroblast mylonite:* mylonitic meta-tuff
- E Hornblende-porphyroblast gneiss; agmatitic migmatite
- F Strongly sheared rocks within the Unuk-Harrymel fault zone

GOSSANOUS ALTERATION ZONES

Pyrite ± quartz ± sericite ± kaolinite ± clay; locally bleached to whiteboss

Disseminated pyrite in felsic volcanics

VOLCANIC AND SEDIMENTARY ROCKS

(Note: No stratigraphic order is implied within components.)

QUATERNARY

RECENT

17 UNCONSOLIDATED SEDIMENTS

- 17a Alluvium, glaciofluvial deposits, lacustrine deposits, moraine
- 17b Alluvium reworked by Pleistocene or Recent lahar

PLEISTOCENE TO RECENT

16 BASALT FLOWS AND TEPHRA

- 16a Dark grey to black, basalt flows and hyalo; minor pillow lavas
- 16b Basalt hyalo

TRIASSIC TO JURASSIC

HAZELTON GROUP

MIDDLE JURASSIC (TOARCIAN TO BAJOCIAN)

5 *SILTSTONE SEQUENCE (Saloon River Formation):* Dark grey, well-bedded siltstone with minor sandstone and conglomerate.

- 5d Clast poorly conglomeratic and gravelly
- 5l Recessively bedded siltstone and shale (turbidites)
- 5w Thinly bedded wacke
- 5p Andesite pillow lavas and pillow breccias with minor siltstone interbeds

LOWER JURASSIC (TOARCIAN)

4 *FELSIC VOLCANIC SEQUENCE (Mount Dilworth Formation):* Light weathering, intermediate to felsic pyroclastic rocks, including dust, ash, crystal and lithic tuffs, lapilli tuff. Locally pyritiferous (2 to 15%) and gossanous. Minor sedimentary biotite wacke interbeds.

- 4d Variably bedded airfall tuffs
- 4f Massive felsic tuff
- 4r Black and white, sedimentogenic felsic volcanics; locally flow banded and autobrecciated

LOWER JURASSIC (PLIENSBACHIAN TO TOARCIAN)

3 *PYROCLASTIC-EPICLASTIC SEQUENCE (Betty Creek Formation):* Heterogeneous, grey, green, locally purple or maroon, massive to poorly bedded pyroclastic and sedimentary rocks; pillow lava

- 3a Green and grey, massive to poorly bedded ash-rocks
- 3d Grey, green and purple dacite tuff, lapilli tuff, hyalotic and lithic tuff; lithic to well bedded feldspar phyric
- 3f White weathering, felsic tuffs and breccias with quartz eyes/grains
- 3l Andesite lapilli tuff with plum siltstone clasts
- 3p Andesitic pillow lavas and pillow breccias with minor siltstone interbeds
- 3s Black, thinly bedded siltstone, shale and argillite (turbidite)

UPPER TRIASSIC TO LOWER JURASSIC (NORIAN TO SINEMURIAN)

2 *ANDESITE SEQUENCE (Unuk River Formation):* Green and grey, intermediate to mafic volcaniclastics and flows with abruptly thick interbeds of fine-grained sandstone (turbidite), minor conglomerate and limestone

- 2a Grey and green, plagioclase ± hornblende porphyritic andesite; massive to poorly bedded
- 2b Grey and green, hornblende-(±2, pyroxene)-feldspar porphyritic andesite; lapilli and ash tuff
- 2c Grey, brown and green, thinly bedded, lithic/vitreous siltstone and fine grained wacke
- 2f Black, thinly laminated siltstone (turbidite); minor argillite
- 2g Dark grey, mafic-porphyritic conglomerate with granitic matrix
- 2l Grey, variably bedded limestone (completely recrystallized along Sulzer-Unuk valley)

TRIASSIC

STUHINI GROUP

UPPER TRIASSIC (CARNIAN TO NORIAN)

1 *LOWER VOLCANOSEDIMENTARY SEQUENCE:* Brown, black and grey, mixed sedimentary rocks interbedded with medium to dark green, mafic to intermediate massive and volcaniclastic rocks

- 1f Grey to black, thinly bedded siltstone, shale, argillite (turbidite)
- 1w Brown and grey, fine grained lithic/wacke arenite; minor siltstone or conglomerate
- 1f Grey, siliceous, silty, sandy limestone
- 1a Green, fine-grained, mafic-rich ash tuff; feldspar and hornblende phyric
- 1b Dark green basalt
- 1g Grey and green, andesitic breccia with mainly hornblende-porphyritic clasts and mafic-rich matrix

SYMBOLS

- Geological boundary (defined, approximate, assumed)
- Bedding, tops known (horizontal, inclined, vertical, overturned)
- Bedding, tops unknown (horizontal, inclined, vertical)
- Bedding, outcrop size (gentle, moderate, steep)
- Stratigraphic tops in pillow volcanics
- Compositional layering in metamorphosed rocks; foliation (inclined, vertical)
- Trend line
- Regional synclinal; synform
- Anticline; synform (normal, overturned)
- Minor fold axis with M, Z or S symmetry; with plunge
- Fault (defined, assumed; D = downthrown side)
- Thrust fault (defined, assumed; teeth on upper plate)
- Air photo lineament
- Fossil locality
- Plumbum
- Area with more than 40% Tertiary dykes
- Limit of mafic phyllite zone
- Volcanic vent (observed, assumed)
- Geologic station
- 871365 (0.8, 48, 3.8, 11)
  Sample No. (Ag ppm, As ppm, Sb ppm, Au ppb)
- National geochronical reconnaissance sample site
- Potassium-argon isotopic age date; H = hornblende; age in millions of years before present
- Mineral occurrence; MINFILE number 083

AGE	GROUPS	FORMATIONS	MEMBERS	LITHOLOGIES
Bathonian	Bowser Lake	Ashman	Main Sequence Basal Conglomerate	Turbidites, wackes, intraformational conglomerates Chert pebble conglomerates
Bajocian to Toarcian	Spatsizi(?)	Salmon River	Pyjama Beds Basal Limestone	Thin bedded, alternating siltstones and mudstones Gritty, fossiliferous limestone
Toarcian	Hazelton	Mount Dilworth	Upper Lapilli Tuff Middle Welded Tuff Lower Dust Tuff	Dacitic lapilli tuff with flow-bandedd clasts Dacitic welded ash flow and lappilli tuff Dacitic dust tuff
Pliensbachian		Betty Creek	Sedimentary Members Volcanic Members	Hematitic volcaniclastic sediments, and turbidites Andesitic to dacitic tuffs and flows
Sinemurian to Hettangian(?)		Unuk River	Premier Porphyry Upper Andesite Upper Siltstone Middle Andesite Lower Siltstone Lower Andesite	Two feldspar + hornblende porphyritic tuffs Massive tuffs with local volcaniclastic sediments Turbidites, minor limestones Massive tuffs and minor volcaniclastic sediments Turbidites Massive to bedded ash tuffs
Norian to Carnian	Stuhini		Volcanic Members Sedimentary Members	Pyroxene porphyry flows and tuffs Turbidites, limestones, conglomerates

TABLE 1. Table of Formations Unuk River Area

westward facing but locally overturned interbedded volcanics and lesser sediments, underlying most of the property. The volcanics are dominantly grey and green, massive to poorly bedded units, and range in composition from basaltic andesite to dacite. Pillow lavas, breccias, and felsic pyroclastics, including spherulitic rhyolite, have been reported in the John Peaks area, but were not mapped by Britton et al.(1989) within the Paradigm property. The sedimentary rocks are, on the whole, less abundant than the volcanic rocks, and consist of black thinly bedded siltstone, shale, and argillite. Limestones are rare or absent in the Lower Jurassic section.

Structure

Actual fault surfaces or zones are rarely seen in the Unuk River area, but they are probably quite common and may have developed concurrently with regional folding.

The strata west of the property define a broad north-plunging anticline with moderately dipping limbs. On the property, the easterly dipping strata belonging to the Betty Creek Formation occur on the western limb of a broad syncline.

The north-south trending Harrymel-South Unuk shear zone transects the western property boundary and is marked by mainly schistose rock fabrics. Britton et al.(1989) interpreted this structure as a major easterly dipping shear zone with normal offset, exposing different structural levels and stratigraphic sections.

ECONOMIC GEOLOGY

Britton et al.(1989) list 55 mineral occurrences in the Unuk map-sheet. These showings are predominantly gold/silver occurrences and are hosted by a number of various lithologies. Most can be classified into one of four categories: stratabound, vein, skarn, and disseminations. Grove (1986) has determined that the age of the mineralizing events is variable and, notably, can be post-Triassic.

Stratabound mineralization consists almost exclusively of pyritic zones and lenses contained within a particular stratum or a restricted set of strata. The best example is the Eskay Creek prospect, currently being explored by Calpine Resources Incorporated and Consolidated Stikine Silver Ltd. Intrusive-contact (skarn) deposits show a close spatial and temporal relationship with igneous intrusions. Three deposits in this category are the E & L nickel/copper deposit (Minfile #006), the Max copper/iron skarn (Minfile #013), and the Chris-Anne copper/iron skarn (Minfile #125). Britton et al.(1989) stated:

> Mineralization at the E & L occurs within two medium- to coarse-grained, olivine-pyroxene gabbro bodies. These roughly triangular plugs are each approximately 1300 square metres in area and are probably connected. They intruded a sequence of argillites, tuffaceous siltstones, and grey dacitic ash tuffs that strike northwesterly with moderate to steep southwesterly dips. Mineralization consists of pyrrhotite, pentlandite, and chalcopyrite, with lesser amounts of pyrite and magnetite. In the northwestern gabbro, mineralization extends up to the contact with the sediments, whereas in the southeastern gabbro, mineralization is confined to the pluton. Diamond drilling has delineated pipe-like pods and disseminations of sulphides to a depth of 120 metres. Drill-indicated reserves are 2.8 million tonnes of 0.7% Ni and 0.6% Cu (Sharp, 1965).
>
> The Max prospect lies on the northwest side of McQuillan Ridge, between the Unuk and South Unuk Rivers, at elevations between 455 and 1500 metres. Massive magnetite with lesser pyrrhotite and chalcopyrite occur in skarn-altered sedimentary rocks adjacent to a diorite stock. Garnet, epidote, actinolite, and diopside characterize the skarn assemblage. Drilling has indicated a reserve of 11 million tonnes at 45% iron (Canadian Mines Handbook 1973-1974, page 432).
>
> The Chris-Anne prospect lies approximately 3 kilometres east of the Max. Skarn mineralization is reported in limestone beds which are up to 10 metres thick and that are interbedded with volcaniclastics. Magnetite and pyrrhotite-rich layers, from 0.5 to 7 metres thick,

with minor chalcopyrite, extend over a distance of 1 kilometre. There are minor intrusive bodies reported on the property. Grades range from 0.1% to 0.4% copper (Allan and MacQuarrie, 1981).

The gold potential of these skarn deposits does not appear to have been tested. Based on recent skarn studies (Ettlinger and Ray, 1988), this area has many features that are associated with gold-enriched skarns elsewhere in the province: sequences of calcareous and tuffaceous host rocks; structural deformation; intrusion by dioritic I-type granitoids; and contact metamorphism and recrystallization. Some auriferous skarns are enriched in cobalt, an element that may be a useful pathfinder.

High-grade precious metal quartz veins are the target of exploration programs at Mount Madge (Minfile #240 and #233) by Bighorn Development Corporation, and at the Doc prospect (Minfile #014) by Echo Bay Mines Limited. Britton et al.(1989) reported:

The Mount Madge prospects are located south of Sulphurets Creek near its confluence with Unuk River, on the east and west sides of Mandy Glacier. Two different targets are being evaluated (Kruchkowski and Sinden, 1988). On the west, the C-10 prospect (Minfile #240) is a stockwork of thin quartz veinlets, locally with thicker quartz lenses, in intensely altered, fine-grained tuffaceous andesite or dacite. Quartz veinlets locally form up to 30% of the rock. The alteration assemblage consists of quartz and sericite with up to 10% pyrite. Chalcopyrite and traces of sphalerite are also present. The rocks are strongly foliated to schistose and are very similar to the broad alteration zones seen at Brucejack Plateau 12 kilometres to the northeast (Britton and Alldrick, 1988). Soil samples locally return analyses in excess of 1 ppm gold.

Two kilometres to the east, Ken Konkin discovered a massive pyrite-siderite float boulder with visible gold. Prospecting uphill led to the discovery of the GFJ veins (Minfile #233), apparently flat-lying, zoned siderite-quartz-sulphide veins that returned assays up to 121 grams per tonne gold (Kruchkowski and Sinden, 1988). The veins are poorly exposed. Float blocks seen this year display symmetrical zoning from margin to core across vein widths of 10 to 15 centimetres. Vein margins are 1 to 2 centimetres of thin white quartz layers separated by hairline accumulations of very fine-grained tin-white sulphide, probably arsenopyrite. The core is a very coarse-grained intergrowth of siderite, milky quartz, and cubes and clusters of pyrite, with lesser amounts of sphalerite and chalcopyrite as crystals and irregular masses. Rare tetrahedrite and visible gold have been observed (K.Konkin, personal communication, 1988). The veins cut variably foliated andesitic ash tuffs with thin interbeds of foliated to schistose siltstones.

The Doc prospect (Minfile #014) is located at treeline on a ridge overlooking the South Unuk River, opposite the mouth of Divelbliss Creek. The prospect consists of several west-northwest trending quartz veins up to 2 metres wide that have surface strike lengths of up to 275 metres (Gewargis, 1986). The main veins (Q17, Q22) are massive white quartz with sparse sulphide mineralization (5% to 10%) consisting of galena, pyrite, chalcopyrite, and sphalerite, with associated specular hematite and magnetite. Precious metal values are mostly confined to the sheared edges of veins and immediately adjacent wallrock. Shear zones with very little quartz may also return good values. Seraphim (1948) observed that gold was associated with either specular hematite or with galena and pyrite, but not with chalcopyrite and pyrite assemblages. The veins are a true fissure type, crosscutting folded and metamorphosed andesitic tuffs and thin-bedded sediments, including marble, that have been intruded by irregular dioritic dykes or sills and small monzodioritic plugs. The veins are different from any others seen in the Sulphurets or Unuk map areas. They have very restricted wallrock alteration aureoles, no apparent zoning, and appear to be limited to a few large fluid pathways. In this, they display characteristics of mesothermal veins. Structural control of the vein sets has not been determined but may be due to fractures related to folds in the host rocks. Total mineral inventory of the Q17 and other veins is given as 426,000 tonnes with 9.26 grams per tonne gold and 44.91 grams per tonne silver (*Northern Miner*, November 7, 1988).

Porphyry-type disseminated pyrite, chalcopyrite, and molybdenite mineralization occurs immediately north and south of King Creek, west of Harrymel Creek. Two properties have been worked: the VV to the south and the Cole to the north.

The VV property (Minfile #079) is the site of a heavily weathered monzonitic intrusive body in fault contact, on the east and west, with layered andesitic lapilli tuffs and tuff breccias with minor siltstone and calcareous sandstone interbeds. The stock is 250 metres wide, at least 6 kilometres long, strikes northerly, and dips steeply to the west, parallel to the country rocks. Chalcopyrite occurs in quartz stockworks and as fine disseminations within the monzonite. Molybdenite, sphalerite, malachite, and azurite have also been reported (Winter and McInnis, 1975; Mawer et al., 1977). Representative assays give 0.34% copper, 0.003% molybdenum, 2.1 grams per tonne silver, and 0.8 gram per tonne gold. Maximum gold and silver values obtained were 8.65 grams per tonne gold and 19.54 grams per tonne silver (Mawer et al., 1977).

The Cole prospect (Minfile #209) is situated approximately 4 kilometres north of the VV claims; it appears to be on strike with the same fault system and has similar intrusive and country rocks. Mineralization consists of up to 10% pyrite as disseminations and fracture fillings. Minor chalcopyrite and malachite have been reported but the bedrock source of the gold/silver soil anomalies has not been located (Korenic, 1982; Gareau, 1983). Reported assays range up to 0.43% copper, 7.12 grams per tonne gold, and 13.03 grams per

tonne silver. Gold and copper values show a positive correlation on both properties.

At this time, the Eskay Creek prospect, located 10 km northeast of the Paradigm property, is the most significant showing in the area. This prospect comprises at least eight mineralized zones occurring over a strike length of 1800 m within a sequence of felsic volcanics (Mount Dilworth Formation). This property is currently being explored by Calpine and Consolidated Stikine Silver. Preliminary drilling on the '21 Zone' intersected 96 feet assaying 0.752 oz/ton gold and 1.13 oz/ton silver including 52.5 feet grading 1.330 oz/ton gold and 1.99 oz/ton silver (*Northern Miner*, November 7, 1988).

The drilling results obtained to date indicate that the '21 Zone' extends over 335 m and is open along strike and at depth. Based on the results of 70 drill holes completed to June 1, 1989, a preliminary geological reserve of 2.8 million tons grading 0.23 oz/ton gold and 3.3 oz/ton silver was calculated for the '21 Zone' (Consolidated Stikine Silver, 1989 Annual Report). These deposits have been variously described as silicified shear zones (Harris, 1985) or as volcanogenic deposits (Donnelly, 1976). The mineralization is associated with disseminated sulphides in felsic volcanic breccias and graphitic argillites in contact with overlying intermediate volcanic rocks.

A review of all the available information (Minfile, assessment reports, geological maps, reports, etc.) indicates that the Harrymel Creek copper showing (Minfile #080) is the only reported occurrence located on the Paradigm property. Field investigations did not locate any mineralization in this area and it is believed that the occurrence is plotted incorrectly on the Minfile map. The Minfile describes this showing as occurring within schist in the Harrymel-South Unuk cataclastic zone near a north-trending fault which dips 60°-85°W. The showing consists of a well mineralized zone within quartz-epidote schist which hosts abundant pyrite, chalcopyrite, and some pyrrhotite.

The Copper King showing (Minfile #007) occurs adjacent to the western boundary of the PARADIGM 2 claim. The showing generally comprises small replacement bodies of massive fine-grained pyrrhotite and chalcopyrite which occur along the western edge of the Harrymel-South Unuk cataclastic zone and

in felsite lenses 3-9 m long and 0.3 m wide. At some locations, up to 17 grams/tonne Au is reported to accompany the copper/iron sulphide mineralization.

1989 EXPLORATION PROGRAM

The 1989 property exploration program, completed between September 9 and October 16, consisted of helicopter-supported reconnaissance prospecting, geological mapping, and geochemistry (lithogeochemical, stream silt, and heavy mineral sampling). Areas of known mineralization and gossans noted within the area were investigated and sampled.

A total of 59 rock, 47 stream silt, and 11 heavy mineral samples were forwarded to Bondar-Clegg & Company in Vancouver for multi-element analyses; Au by fire assay-AA and the remaining 29 elements by I.C.P. (results are presented in the Appendix, along with rock sample descriptions). Of these, 3 rock, 2 stream silt, and 3 heavy mineral samples were collected from the MIKHAIL 2 claim, the remaining samples from the PARADIGM 2 claim.

The accompanying map depicts the property geology (modified after Britton et al.,1989), with 1989 prospecting traverses, sample locations, and Au/Ag/As/Sb analytical results. Descriptions of the exploration completed and the results follow.

ROCK GEOCHEMICAL SAMPLING

MIKHAIL 2 Claim (Maps 1 and 2)

The MIKHAIL 2 claim is located in an area of low relief and is extensively covered by a thin blank of Quaternary alluvium. The scarcity of drainage courses cutting across the claim, combined with the low relief, limits the amount of rock exposure in the area.

The eastern half of the claim is underlain by andesitic volcanics of the Lower Jurassic Betty Creek Formation. Rock exposures in this area occur as narrow north-south trending ridges, paralleling the strike of the underlying volcanics. The western portion of the claim is extensively covered by Quaternary alluvium with a thick cover of alder. Rock exposures are rare and are confined to drainage courses, primarily Harrymel Creek.

Reconnaissance prospecting and geochemical sampling were completed over selected parts of the claim. This work was concentrated in the upland areas and in the drainage courses of the claim where rock exposures were most abundant. No anomalous precious metals values were detected by this exploration program.

The Minfile occurrence map indicates the Harrymel Creek copper showing (Minfile #080) as occurring on the MIKHAIL 2 claim. Prospecting completed in this area did not locate any mineralization.

PARADIGM 2 Claim (Maps 3 and 4)

Reconnaissance prospecting and geochemical sampling were completed over selected parts of the PARADIGM 2 claim. This work was concentrated in the upland areas and in the numerous drainage courses which cut across the claim, where rock exposures were most abundant.

The property is underlain by andesitic volcanics, primarily fragmental tuffs and flows, of the Lower Jurassic Betty Creek Formation. Narrow 2-3 m wide black argillite/chert beds were found in a number of locations within this volcanic assemblage. Adjacent to the Unuk-Harrymel fault zone, a number of isoclinal folds were observed. Abrupt changes in the general strike of this unit in the northern part of the claim indicate that additional structural complications occur in this area. A chert clast conglomerate was located in the southeastern corner of the claim.

Lithogeochemical sampling completed in the area of structural complications yielded elevated to anomalous values in Au, Ag, or As for a number of samples. Three grab samples of fragmental tuff, collected in the same vicinity, yielded elevated Au, Ag, and As values:

	Au ppb	Ag ppm	As ppm
PPR-3	-	20.9	554
PPR-4	678	10.0	478
PER-2	182	11.5	579

A float sample (PZR-3) of fragmental tuff collected downslope from this area yielded an anomalous zinc value (3393 ppm).

In addition, a grab sample (PVR-3) from an andesite tuff located adjacent to a narrow shear yielded elevated Ag (16.5 ppm) and As (334 ppm) values, and a grab sample (PPR-6) from a fragmental tuff adjacent to a projected fault yielded an elevated chromium (850 ppm) value.

This area required additional work to determine its gold potential, with particular attention given to the area from which a grouping of samples yielded elevated precious metals values.

In the north-central portion of the claim, within the drainage area from which the August 1989 stream silt sampling program delineated weakly elevated As and Ag values, a number of samples of andesitic fragmental tuff yielded elevated to anomalous values for Au, Ag, As, or Sb:

	Au ppb	Ag ppm	As ppm	Sb ppm
PCR-3	604	-	>2000	120
PCR-2	-	35.4	-	-
PZR-8	271	-	-	-
PZR-9	-	-	843	-

Two float samples of fragmental tuff collected from a stream located directly south from this area yielded elevated Au, Ag, or As values (PER-9: 114 ppb Au; POR-13: 421 ppb Au, 22.3 ppm Ag, 664 ppm As). This area requires additional exploration to determine the significance of these elevated values.

In the south-central portion of the claim, two grab samples of an andesitic fragmental tuff yielded elevated to anomalous arsenic values (PPR-12: 967 ppm; PPR-13: 1236 ppm). In the southeast corner of the claim, two grab samples of a chert clast conglomerate yielded elevated arsenic values (PZR-20: 686 ppm; PZR-19: 987 ppm).

These areas should also be re-investigated as to their significance, with particular attention given to the area underlain by the chert clast conglomerate when taking in the context of the Eskay Creek deposit.

STREAM SILT SAMPLING

Stream silt geochemical sampling was conducted on the property as part of the current exploration program. Stream silt samples were collected whenever streams were crossed during reconnaissance prospecting traverses and at 100 m intervals on selected streams. The designation of anomalous values is based on regional G.S.C. survey results in Open File 1645 combined with a visual observation of data obtained during the 1989 exploration on a number of claim groups in the Unuk River area.

Based on these criteria, they were no anomalous precious metals values detected on the MIKHAIL 2 claim; however, only two stream silt samples were

collected. A thorough stream silt sampling program should be completed on this claim.

The PARADIGM 2 claim was extensively silt sampled. Five samples yielded elevated Ag or As values:

	Ag ppm	As ppm
PVL-05	1.1	-
PVL-06	2.4	109
PVL-11	-	614
PCL-04	1.3	204
PZL-13	1.1	-

Samples PVL-5 and PVL-6 were collected in the northern portion of the claim, from a creek draining an area in which lithogeochemical sampling yielded elevated to anomalous Au, Ag, or As values (samples PPR-3, PPR-4, PER-2). Sample PVL-11 was collected from a creek paralleling the above creek and draining the same general area. A small shear zone was mapped directly upslope of this sample site. Lithogeochemical sampling completed adjacent to this shear yielded elevated silver and weakly elevated arsenic values.

Sample PCL-4 was collected from a stream located in the north-central portion of the claim, where stream silt sampling in August 1989 yielded weakly elevated arsenic and silver values. Lithogeochemical sampling in the drainage area of the creek yielded elevated to anomalous values for Au, Ag, As, or Sb.

Sample PZL-13, which yielded a weakly elevated silver value, was collected from a creek draining the southern portion of the PARADIGM 2 claim. A chert clast conglomerate containing elevated arsenic values was located in the general drainage area of this sample site. This sample may be defining precious metals mineralization which has not as yet been located. Additional exploration is required in the drainage areas of each of these sample sites to determine the significance of these elevated silver or arsenic values.

HEAVY MINERAL SAMPLING

A heavy mineral stream sediment sampling survey was conducted on the property, by Mr. M. Waskett-Myers of Keewatin Engineering Inc. This company has done a considerable amount of work in the Unuk River area, and in the process, has assembled a fairly substantial data base. These data were used to assess the values obtained on the property. Heavy mineral sampling is a good first-pass tool and should be considered as a micro-prospecting approach to evaluating an area.

Heavy mineral samples were collected in parts of a creek where there is a sudden transition from high to low energy; if present, moss mat was used. Samples were sieved to -20 mesh, and a 3-5 kg sample of sieved material was collected. The samples were sent to Bondar-Clegg and Company in Vancouver for multi-element analyses: Au by fire assay-AA and the remaining 29 elements by I.C.P. The heavy mineral separation consists of floating off the light (<3.3) minerals using methylene-iodine followed by magnetic separation. A sample weight of 0.5 g is taken for the I.C.P. and the remainder used for fire assay.

Three heavy mineral samples were collected from creeks on the MIKHAIL 2 claim. Samples PWH-9 and PWH-10, from creeks located in the north part of the claim, yielded elevated silver, arsenic, and base metals values. Sample PWH-10 also yielded an anomalous gold value of 2238 ppb. These creeks originate beyond the claim boundary; hence, these elevated values may be due to mineralization located on the adjacent property. Nevertheless, the portions of these drainages within the property area should be prospected, and stream silt samples should be collected at regular intervals. The remaining 8 heavy mineral samples were collected from creeks draining the PARADIGM 2 claim. Sample PWH-4, from a creek draining the south-central part of the claim, yielded an elevated gold value of 540 ppb. Several of the other samples, from creeks draining the south half of claim, yielded elevated Cu, Zn, Ag, or As values. Several stream silt and/or lithogeochemical samples from the same areas also yielded elevated Ag or As values. This indicates that the area has some potential and that a follow-up program could reveal further indications of mineralization.

SUMMARY AND RECOMMENDATIONS

The 1989 exploration program consisted of helicopter-supported reconnaissance prospecting, geological mapping, and geochemical sampling, with the objective of evaluating the property's potential for hosting economic precious metals deposits.

The MIKHAIL 2 mineral claim is located in an area of low relief and is extensively covered by a thin blanket of Quaternary alluvium which, combined with the scarcity of drainage courses cutting across the claim, limits the amount of rock exposure. Reconnaissance prospecting, combined with lithogeochemical and stream silt sampling, was completed over selected parts of the MIKHAIL 2 claim, but did not yield any precious or base metals values. However, only a small portion of the claim was examined during this exploration program.

The Harrymel Creek copper showing is reportedly located adjacent to Harrymel Creek in the south-central part of the claim. Prospecting in this area did not locate any mineralization.

Three heavy mineral samples were collected from creeks draining the MIKHAIL 2 claim as part of the 1989 exploration program. Two samples from creeks in the northern part of the claim yielded elevated silver, arsenic, and base metals values, with one sample also yielding an anomalous gold value. These creeks originate beyond the claim boundary; consequently, these elevated values may be due to mineralization located on adjacent properties. Nevertheless, the lower portions of the drainages occurring within the claim area should be prospected. and stream silt samples should be collected at regular intervals.

Additional exploration work is required to fully evaluate the mineral potential of this claim area. Reconnaissance prospecting along with the collection of stream silt samples at regular intervals should be completed along all the drainage courses cutting across the claim. Reconnaissance prospecting and lithogeochemical sampling (if warranted) should be conducted

over those portions of the claim not examined during the current exploration program.

The PARADIGM 2 claim is underlain by andesitic volcanics, primarily fragmental tuffs of the Lower Jurassic Betty Creek Formation. Narrow 2-3 m wide black argillite/chert beds were found within this volcanic assemblage. A number of isoclinal folds were observed adjacent to the Unuk-Harrymel fault zone. Abrupt changes in the general strike of these argillite/chert beds in the northern part of the claim indicate that additional structural complications occur in this area. A chert clast conglomerate was located in the southeastern corner of the claim.

Numerous frequently deeply incised drainage courses cut across the PARADIGM 2 claim. Reconnaissance prospecting and geochemical sampling were completed along these drainage courses, and in the upland areas where rock exposures were most abundant. Stream silt samples were collected at regular intervals along all of the drainages investigated.

Lithogeochemical sampling in the northern part of the claim, in an area of structural complications, yielded elevated to anomalous Au, Ag, or As values for a number of samples. Three stream silt samples from creeks draining this area also yielded elevated Ag and/or As values.

In August 1989, a reconnaissance stream silt sampling program delineated weakly elevated As and Ag values in the north-central part of the claim. A number of lithogeochemical samples of andesitic fragmental tuff within the drainage area from which these silt samples were collected yielded elevated to anomalous Au, Ag, and/or As values.

In the south-central part of the claim, two grab samples of an andesitic fragmental tuff yielded elevated to anomalous arsenic values, and in the southeast corner of the claim, two grab samples of a chert clast conglomerate yielded elevated arsenic values.

A heavy mineral stream sediment sampling survey was completed over the PARADIGM 2 claim as part of the 1989 exploration program. One sample from a creek draining the south-central part of the claim yielded an elevated gold value of 540 ppb. Several of the remaining samples, from creeks draining the southern half of the claim, yielded elevated Cu, Zn, Ag, or As values.

The 1989 exploration program on the PARADIGM 2 claim located a number of areas which require additional exploration. The areas from which lithogeochemical sampling yielded elevated Au, Ag, or As values should be re-investigated; the drainage areas of the stream silt sample sites which yielded elevated values should receive additional prospecting. Reconnaissance prospecting should be completed over the southern portion of the claim since heavy mineral samples collected from creeks draining this area yielded elevated Cu, Zn, Ag, or As values. Particular attention should be given to the northern portion of the claim in the area of structural complications, and in the southeastern corner of the claim in the area underlain by the chert clast conglomerate, when taken in the context of the Eskay Creek deposit.

CERTIFICATE - C. H. Aussant

I, Claude Henry Aussant, of 31 Templebow Way N.E. in the City of Calgary in the Province of Alberta, do hereby certify that:

1. I am a Consulting Geologist with the firm of Taiga Consultants Ltd. with offices at Suite 400, 534 - 17th Avenue S.W., Calgary, Alberta.

2. I am a graduate of the University of Calgary, B.Sc.Geology (1976), and I have practised my profession continuously since graduation.

3. I am a member in good standing of the Association of Professional Engineers, Geologists and Geophysicists of Alberta; and I am a Fellow of the Geological Association of Canada.

4. I am the author of the report entitled "Geological, Prospecting, and Geochemical Report on the **Paradigm Property**, PARADIGM 2 and MIKHAIL 2 Claims, Skeena Mining Division, British Columbia", dated November 6, 1989. I personally worked on the property during the program described herein.

5. I do not own or expect to receive any interest (direct, indirect, or contingent) in the property described herein nor in the securities of **Loki Gold Corporation** and **Rocky Mountain Energy Corp.**, in respect of services rendered in the preparation of this report.

DATED at Calgary, Alberta, this 6th day of November, A.D. 1989.

PERMIT TO PRACTICE
TAIGA CONSULTANTS LTD.
Signature
Date January 17, 1990
PERMIT NUMBER: P 2399
The Association of Professional Engineers, Geologists and Geophysicists of Alberta

Respectfully submitted,

C. H. Aussant, B.Sc., P.Geol., F.GAC

GEOLOGICAL ASSOCIATION OF CANADA
C. H. AUSSANT
FELLOW

PROFESSIONAL GEOLOGIST ALBERTA
CLAUDE H. AUSSANT

CERTIFICATE

I, DAVID GEORGE DuPRE, of 56 Parkgrove Crescent in the Municipality of Delta in the Province of British Columbia, do hereby certify that:

1) I am a graduate of the University of Calgary, B.Sc. Geology (1969), and have practised my profession continuously since graduation.

2) I am a member in good standing of the Association of Professional Engineers, Geologists and Geophysicists of Alberta; and I am a Fellow of the Geological Association of Canada.

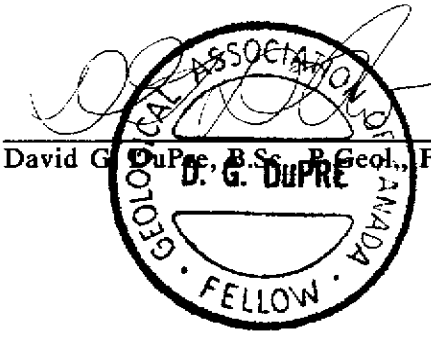
3) I am a consulting geologist with the firm of Keewatin Engineering Inc. with offices at Suite 800 - 900 West Hastings Street, Vancouver, British Columbia.

4) I am the co-author of the report entitled "Geological, Prospecting, and Geochemical Report on the **Paradigm Property**, PARADIGM 2 and MIKHAIL 2 Claims, Skeena Mining Division, British Columbia", dated November 6, 1989. I personally supervised the work on the property and visited the site on two occasions between September 6 and October 15, 1989.

5) I do not own or expect to receive any interest (direct, indirect or contingent) in the property described herein nor in the securities of **Loki Gold Corporation** and **Rocky Mountain Energy Corp.**, in respect of services rendered in the preparation of this report.

Dated at Vancouver, British Columbia this 6th day of November, A.D. 1989.

Respectfully submitted,



David G. DuPre, B.Sc., P.Geol., FGAC

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A P P E N D I X

Summary of Personnel
Rock Sample Descriptions
Certificates of Analysis
Analytical Techniques

* *

SUMMARY OF PERSONNEL

Name / Address	Position	Dates	Man Days
C. H. Aussant Calgary, Alberta	Project Geologist	Sep.9-Oct.16	8.75
B. C. Beattie Calgary, Alberta	Assistant Geologist	Sep.9-Oct.16	8.25
M. Waskett-Myers Vancouver, B,C.	Geochemist	Sep.9-Oct.16	7.50
B. McIntyre Vancouver, B.C.	Senior Prospector	Sep.9-Oct.16	5.00
S. Hardlotte LaRonge, Sask.	Senior Prospector	Sep.9-Oct.16	7.00
Don McLeod LaRonge, Sask.	Senior Prospector	Sep.9-Oct.16	7.00
Dennis McLeod Stanley Mission, Sask.	Junior Prospector	Sep.9-Oct.16	7.00
Irvine Roberts Stanley Mission, Sask.	Junior Prospector	Sep.9-Oct.16	7.00
C. Oevermann Smithers, B.C.	Cook	Sep.9-Oct.16	7.50
		TOTAL	65.00

ROCK SAMPLE DESCRIPTIONS

PARADIGM 2 Claim

	Au ppb	
PCR-001	<5	grab o/c; fragmental chert bed 3' wide, pale grey, pyrite as 3% disseminations and stringers; in black argillite; strike 90°/variable
PCR-002	33	grab o/c; fragmental tuff, pale grey, rusty weathering, up to 10 cm diameter (volcanic breccia)
PCR-003	604	grab o/c; andesite tuff, black, containing massive pyrite blebs and stringers (10%), directly overlying a narrow black argillite bed
PVR-001	<5	grab float; large boulders of limonite-stained siliceous carbonaceous tuff with up to 5% disseminated pyrite
PVR-002	6	grab float; tuff, brecciated, pyrite as inclusions and stringers
PVR-003	24	grab o/c; andesite tuff, dark grey, limonite stained, with pyrite as disseminations and occ stringers
PZR-001	<5	grab o/c; fragmental tuff, pale grey, pyrite as 1% disseminations and as stringers, rusty weathered, narrow cherty bands, calcareous, cherty fragments, pyrite enriched area 0.5m^2
PZR-002	<5	grab float; argillite, black, subangular boulder 0.4m^2; Py as stringers, blebs, up to 3% disseminations and small crystals, occ calcite stringers, minor chalcopyrite
PZR-003	81	grab float; intermediate fragmental tuff, pale grey, calcite infilling, 5% diss pyrite, cherty fragments, angular boulders 0.2 x 0.4 m
PZR-004	<5	grab o/c; intermediate fragmental tuff, pale grey, calcite infilling, pyrite as 5% fine disseminations and stringers lining edges of 5 cm calcite pods
PZR-005	<5	grab o/c; intermediate tuff, pale grey, calcareous, chert fragments, 3% very fine disseminations of pyrite
PZR-006	17	grab o/c (same zone as PZR-005); intermediate tuff, pale to medium grey, calcareous, chert fragments, <1% diss Py
PZR-007	<5	grab o/c; tuff, pale grey, <1% diss Py, quartz stringers

	Au ppb	
PZR-008	271	grab o/c; fragmental tuff, grey, 5% pyrite as disseminations and crystals
PZR-009	62	grab o/c; fragmental tuff, pale grey, coarser grained, 2-7% pyrite blebs up to 2 mm diameter, quartz stringers
PZR-010	21	grab o/c; fragmental tuff, black, fragments up to 5 mm diameter, 5% pyrite as disseminations and blebs
PZR-017	18	grab o/c; andesite tuff, dark grey, trace pyrite
PZR-018	6	grab o/c; tuff, pale grey and black, 5% pyrite as disseminations and crystals
PZR-019	52	grab o/c; conglomerate, clasts of chert and argillite, 5% disseminated pyrite in the matrix
PZR-020	50	grab o/c; conglomerate, clasts of chert and argillite, 5% disseminated pyrite in the matrix
PZR-021	<5	grab o/c; andesite tuff, grey, 3% fine diss pyrite
POR-001	<5	grab float; fragmental tuff, pale grey, 1% Py crystals
POR-002	19	grab float; fragmental tuff, pale grey, cherty, 5-7% disseminated pyrite
POR-004	<5	grab float; andesite, mottled light and dark grey, quartz stringers, disseminated pyrite
POR-009	11	grab float; fragmental tuff, pale grey, chert fragments, 1% pyrite
POR-010	<5	grab float; fragmental tuff, pale grey, chert fragments, weakly calcareous, 1-3% sulphides
POR-013	421	grab float; fragmental tuff, pale grey, chert fragments up to 2 cm, sulphides spotty up to 3%
PER-002	182	grab o/c; fragmental tuff, pale grey, chert fragments, 3% diss pyrite, minor calcite
PER-003	8	grab o/c; fragmental tuff, quartz flooding and stringers, minor calcite; pyrite as disseminations, stringers, occ blebs; limonite stained
PER-004	<5	grab o/c; tuff, grey, silicified, cherty; pyrite as minor disseminations and as crystals, quartz stringers

	Au ppb	
PER-005	50	grab o/c; fragmental tuff, pale grey, angular fragments up to 1 cm diameter, pyrite as 5% disseminations and numerous crystals
PER-006	<5	grab float; fragmental tuff, pale grey, angular chert fragments, 3-5% disseminated pyrite
PER-007	<5	grab float; fragmental tuff, pale grey, <1% disseminated pyrite, calcite stringers
PER-008	<5	grab o/c (same loc as PER-007); fragmental tuff, pale grey, angular chert fragments, rusty weathering, <1% diss pyrite
PER-009	114	grab float; fragmental tuff, pale grey, pyrite lining fracture planes
PER-010	<5	grab o/c; fragmental tuff, pale grey, cherty; up to 1% fine disseminated pyrite
PER-011	23	grab o/c; tuff, pale grey, cherty; 1% diss pyrite
PER-012	<5	grab o/c; tuff, grey, brecciated, cherty; angular chert fragments, pyrite crystals and stringers in matrix
PPR-001	13	grab o/c; fragmental tuff, pale to medium grey, calcareous; <1% disseminated pyrite
PPR-002	18	grab o/c; fragmental tuff, black; minor pyrite, strike 165°, ~2 m wide
PPR-003	76	grab o/c; fragmental tuff, light grey, <1% diss pyrite
PPR-004	678	grab o/c; fragmental tuff, pale to medium grey, albitized, <1% disseminated pyrite
PPR-005	8	grab o/c; andesite tuff, pale greenish grey, <1% pyrite
PPR-006	6	grab o/c; fragmental tuff, light grey, white angular alkali feldspar inclusions up to 0.5 cm diameter, minor quartz, 1-2% pyrite as disseminations, crystals, blebs
PPR-007	8	grab o/c; andesite tuff, grey, fine-grained, up to 2% diss pyrite, quartz stringers, minor feldspars
PPR-008	<5	grab o/c; andesite tuff, grey, fine-grained, fragmental, chert fragments up to 3 mm diameter, up to 2% diss pyrite
PPR-009	<5	grab o/c; fragmental tuff, pale grey, cherty, occ pyrite blebs, 1% pale green mineral in blebs

	Au ppb	
PPR-010	12	grab o/c; tuff, dark grey, fine-grained, up to 10% diss pyrite, minor calcite stringers, limonite and hematite staining, zone 2 m wide, strike 008°
PPR-011	85	grab float; tuff, mottled grey-green, <1% pyrite
PPR-012	66	grab o/c; fragmental tuff, pale grey, angular chert fragments, 1-3% disseminated pyrite
PPR-013	10	grab o/c; fragmental tuff, pale to medium grey, angular chert fragments, 3-5% diss pyrite, strike 053°, dip steeply NW
PPR-014	33	grab o/c; tuff, pale grey, <1% disseminated pyrite
PYR-001	39	grab o/c; sheared argillite(?) in a tight isoclinal fold, includes rounded dacitic fragments to 60 cm (upright between an andesite flow on the west, and a clastic welded tuff/ felsic agglomerate on the east)
PYR-002	28	grab o/c; sheared argillite(?), fine-grained pyrite 1%, narrow zone of most intense shearing 0.5 m wide, adjacent country rock <1% pyrite, carbonate veinlets in more competent rocks
PYR-003	18	grab o/c; chloritic rhyodacite, medium green to grey, 3% fine diss pyrite, minor calcite veinlets
PYR-004	32	grab o/c; altered argillite, 5% fine diss pyrite and layers

MIKHAIL 2 Claim

PYR-005	18	grab o/c; sheared argillite, 5% pyrite as disseminations and crystals, carbonaceous, minor calcite stringers, weakly foliated, strike ~060°, dip 60°N
KCR-042	<5	grab o/c; grey chert, with randomly oriented black argillite inclusions, contact area andesite tuff/chert/argillite; 1-3% diss pyrite; pyrite concentrated at the chert/argillite contact
KYR-28	<5	grab o/c; black silty sandstone, highly fractured, 5-10% diss pyrite; calcite fracture filling

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	Ba PPM	Be PPM	Bi PPM	Cd PPM	Ce PPM	Co PPM	Cr PPM	Cu PPM
T1 89PC-L001	Paradigm	<5	0.3	20	351	<0.5	<2	<1	23	18	21	28
T1 89PC-L002		<5	0.2	31	204	<0.5	<2	<1	20	25	26	19
T1 89PC-L003		<5	0.3	20	236	<0.5	<2	<1	25	22	29	26
T1 89PC-L004		18	1.3	204	154	<0.5	2	<1	36	19	6	30
T1 89PC-L005		<5	0.3	84	192	<0.5	<2	3	21	24	17	43
T1 89PC-L006		18	0.5	63	174	<0.5	<2	2	22	19	33	43
T1 89PC-L007		7	0.5	56	191	<0.5	<2	2	24	23	25	35
T1 89PE-L001		<5	<0.2	30	90	<0.5	<2	<1	17	24	60	52
T1 89PO-L003		<5	<0.2	<5	78	<0.5	<2	<1	8	15	44	34
T1 89PO-L005		<5	0.3	52	188	<0.5	<2	<1	27	17	27	31
T1 89PO-L006		<5	0.2	42	186	<0.5	<2	<1	24	20	32	31
T1 89PO-L007		7	0.3	52	149	<0.5	<2	1	25	20	23	35
T1 89PO-L008		7	0.3	27	138	<0.5	<2	<1	16	15	13	40
T1 89PO-L011		6	0.4	19	121	<0.5	<2	1	21	11	8	40
T1 89PO-L012		<5	0.4	37	130	<0.5	<2	<1	22	11	8	37
T1 89PO-L014		<5	0.4	47	152	<0.5	<2	1	22	12	7	42
T1 89PO-L015		36	0.5	29	133	<0.5	<2	2	19	11	5	37
T1 89PO-L016		8	0.5	42	133	<0.5	<2	<1	20	11	5	40
T1 89PO-L017		8	0.4	31	163	<0.5	<2	2	21	14	8	44
T1 89PP-L001		9	0.2	47	126	<0.5	<2	<1	50	40	76	63
T1 89PP-L002		6	0.4	43	147	<0.5	<2	1	23	19	29	35
T1 89PP-L003		<5	0.2	52	164	<0.5	<2	1	23	20	29	38
T1 89PP-L004		<5	0.2	27	199	<0.5	<2	1	26	21	30	38
T1 89PP-L005		8	<0.2	23	180	<0.5	<2	<1	18	15	20	37
T1 89PP-L006		<5	0.2	32	172	<0.5	<2	<1	22	21	41	43
T1 89PP-L007		<5	<0.2	<5	146	<0.5	<2	1	12	17	39	16
T1 89PV-L001		<5	0.2	<5	115	<0.5	<2	<1	9	19	42	44
T1 89PV-L002		<5	0.2	19	147	<0.5	<2	<1	28	22	42	55
T1 89PV-L003		<5	0.7	65	145	<0.5	<2	2	32	22	26	51
T1 89PV-L004		7	0.7	66	148	<0.5	<2	3	28	23	20	62
T1 89PV-L005		13	1.1	68	145	<0.5	<2	3	32	24	25	57
T1 89PV-L006		26	2.4	109	161	<0.5	<2	5	31	21	22	47
T1 89PV-L007		7	<0.2	6	114	<0.5	<2	<1	10	17	47	41
T1 89PV-L008		<5	0.4	42	112	<0.5	<2	<1	25	16	46	45
T1 89PV-L009		<5	0.7	44	164	<0.5	<2	3	24	18	24	47
T1 89PV-L010		9	0.9	57	144	<0.5	<2	3	38	11	7	26
T1 89PV-L011		<5	0.3	614	323	<0.5	<2	<1	9	8	<1	21
T1 89PZ-L001		8	0.7	61	124	<0.5	<2	<1	27	25	38	55
T1 89PZ-L002		10	0.5	52	172	<0.5	<2	1	36	28	47	57
T1 89PZ-L003	Paradigm	10	0.5	75	166	<0.5	<2	2	31	22	40	77

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T1 89PC-L001		14	16	12	3	12	24	5	<20	<5	5	<20
T1 89PC-L002		13	15	18	3	13	29	<2	<20	<5	7	<20
T1 89PC-L003		12	20	19	3	11	31	4	<20	<5	7	<20
T1 89PC-L004		7	18	6	3	4	24	14	<20	<5	3	<20
T1 89PC-L005		8	9	13	7	4	44	12	<20	<5	5	<20
T1 89PC-L006		6	13	19	6	3	53	6	<20	<5	5	<20
T1 89PC-L007		7	11	11	6	4	57	9	<20	5	5	<20
T1 89PE-L001		10	8	20	3	5	55	4	<20	<5	9	<20
T1 89PO-L003		10	5	17	2	4	49	2	<20	<5	5	<20
T1 89PO-L005		10	14	20	3	8	36	4	<20	<5	4	<20
T1 89PO-L006		10	13	22	3	8	43	<2	<20	<5	6	<20
T1 89PO-L007		7	13	16	6	5	45	5	<20	<5	5	<20
T1 89PO-L008		6	7	10	4	3	24	9	<20	<5	4	<20
T1 89PO-L011		6	10	11	5	3	27	12	<20	<5	5	<20
T1 89PO-L012		6	10	11	5	3	25	12	<20	<5	5	<20
T1 89PO-L014		4	11	11	6	2	28	12	<20	<5	5	<20
T1 89PO-L015		4	9	10	5	2	22	14	<20	<5	4	<20
T1 89PO-L016		4	10	10	5	2	23	13	<20	<5	5	<20
T1 89PO-L017		5	10	12	5	3	30	14	<20	<5	5	<20
T1 89PP-L001		8	19	28	4	5	49	<2	<20	<5	10	<20
T1 89PP-L002		7	13	27	5	5	43	3	32	<5	5	<20
T1 89PP-L003		9	14	28	5	5	43	3	<20	<5	5	<20
T1 89PP-L004		10	16	27	4	6	47	5	43	<5	5	<20
T1 89PP-L005		7	11	25	4	3	30	8	<20	<5	4	<20
T1 89PP-L006		10	13	28	5	7	55	5	69	<5	5	<20
T1 89PP-L007		8	8	29	5	5	51	<2	<20	<5	3	<20
T1 89PV-L001		8	8	17	2	3	46	<2	<20	<5	6	<20
T1 89PV-L002		7	16	20	6	3	49	4	<20	<5	7	<20
T1 89PV-L003		6	17	16	6	4	47	10	34	<5	6	<20
T1 89PV-L004		6	16	14	8	3	61	14	51	<5	5	<20
T1 89PV-L005		6	17	14	9	3	53	17	40	<5	5	<20
T1 89PV-L006		8	18	12	9	6	56	25	25	<5	4	<20
T1 89PV-L007		10	8	17	2	5	49	2	<20	<5	5	<20
T1 89PV-L008		11	13	18	4	8	41	9	<20	<5	5	<20
T1 89PV-L009		10	16	12	4	7	39	15	44	<5	3	<20
T1 89PV-L010		7	20	8	8	4	24	16	<20	<5	2	<20
T1 89PV-L011		<2	6	3	48	<1	8	<2	86	<5	2	<20
T1 89PZ-L001		8	12	19	3	4	37	5	<20	<5	7	<20
T1 89PZ-L002		9	18	20	3	4	58	7	<20	<5	8	<20
T1 89PZ-L003		8	14	14	4	4	62	10	53	<5	6	<20

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SAMPLE NUMBER	ELEMENT UNITS	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zn PPM	Zr PPM
T1 89PC-L001		80	<10	<10	51	<10	14	137	11
T1 89PC-L002		87	<10	<10	78	<10	14	100	25
T1 89PC-L003		48	<10	<10	64	<10	18	122	11
T1 89PC-L004		25	<10	<10	25	<10	9	95	1
T1 89PC-L005		32	<10	<10	33	<10	11	188	2
T1 89PC-L006		34	<10	<10	46	<10	11	191	2
T1 89PC-L007		41	<10	<10	35	<10	10	180	2
T1 89PE-L001		22	<10	<10	72	<10	10	98	3
T1 89PO-L003		36	<10	<10	62	<10	9	96	7
T1 89PO-L005		59	<10	<10	46	<10	14	114	5
T1 89PO-L006		64	<10	<10	56	<10	13	139	7
T1 89PO-L007		46	<10	<10	43	<10	10	195	7
T1 89PO-L008		28	<10	<10	29	<10	8	144	3
T1 89PO-L011		23	<10	<10	18	<10	9	163	1
T1 89PO-L012		28	<10	<10	18	<10	9	174	1
T1 89PO-L014		31	<10	<10	19	<10	11	179	2
T1 89PO-L015		25	<10	<10	16	<10	10	157	2
T1 89PO-L016		27	<10	<10	17	<10	10	167	1
T1 89PO-L017		31	<10	<10	21	<10	12	173	2
T1 89PP-L001		25	<10	<10	104	<10	21	99	2
T1 89PP-L002		55	<10	<10	51	<10	10	179	4
T1 89PP-L003		71	<10	<10	52	<10	11	181	4
T1 89PP-L004		84	<10	<10	52	<10	14	174	3
T1 89PP-L005		40	<10	<10	51	<10	8	176	3
T1 89PP-L006		77	<10	<10	57	<10	12	161	6
T1 89PP-L007		61	<10	<10	49	<10	7	125	7
T1 89PV-L001		28	<10	<10	73	<10	11	133	6
T1 89PV-L002		22	<10	<10	56	<10	10	139	4
T1 89PV-L003		34	<10	<10	45	<10	13	219	2
T1 89PV-L004		37	<10	<10	35	<10	15	314	1
T1 89PV-L005		40	<10	<10	37	<10	14	265	1
T1 89PV-L006		66	<10	<10	38	<10	15	331	4
T1 89PV-L007		30	<10	<10	75	<10	10	111	6
T1 89PV-L008		28	<10	<10	64	<10	8	97	3
T1 89PV-L009		74	<10	<10	43	<10	12	169	5
T1 89PV-L010		49	<10	<10	21	<10	8	213	2
T1 89PV-L011		99	<10	<10	<1	<10	5	139	3
T1 89PZ-L001		29	<10	<10	60	<10	12	110	2
T1 89PZ-L002		46	<10	<10	63	<10	15	179	2
T1 89PZ-L003		55	<10	<10	51	<10	11	195	2

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T1 89P7-L016	Paradigm ↓	<5	0.6	67	225	<0.5	<2	8	27	23	15	83
R2 89PC-R001		<5	0.2	72	83	<0.5	<2	<1	48	<1	171	27
R2 89PC-R002		33	35.4	<5	92	<0.5	<2	<1	30	<1	152	21
R2 89PC-R003		604	1.7	>2000	24	<0.5	<2	<1	<5	<1	36	38
R2 89PE-R002		182	11.5	579	49	<0.5	<2	<1	<5	2	196	53
R2 89PE-R003		8	0.2	34	48	<0.5	<2	<1	<5	3	274	28
R2 89PE-R004		<5	<0.2	5	75	<0.5	<2	<1	26	2	26	22
R2 89PE-R005		50	0.2	128	63	<0.5	<2	<1	15	21	35	45
R2 89PE-R006		<5	4.8	424	70	<0.5	<2	<1	34	<1	80	17
R2 89PE-R007		<5	<0.2	18	55	<0.5	<2	<1	7	32	67	38
R2 89PE-R008		<5	0.2	21	122	<0.5	<2	<1	<5	2	28	16
R2 89PE-R009		114	<0.2	161	62	<0.5	<2	<1	13	<1	109	16
R2 89PE-R010		<5	<0.2	17	165	<0.5	<2	<1	<5	6	51	27
R2 89PE-R011		23	<0.2	43	40	<0.5	<2	<1	19	5	50	33
R2 89PE-R012		<5	8.8	253	49	<0.5	<2	<1	29	<1	67	19
R2 89P0-R001		<5	0.2	22	89	<0.5	<2	<1	<5	2	88	24
R2 89P0-R002		19	0.8	170	33	<0.5	<2	<1	25	2	147	29
R2 89P0-R004		<5	<0.2	<5	18	<0.5	<2	<1	<5	30	41	136
R2 89P0-R009		11	0.7	59	97	<0.5	<2	<1	42	<1	104	9
R2 89P0-R010		<5	4.2	234	74	<0.5	<2	<1	32	1	50	17
R2 89P0-R013		421	22.3	664	68	<0.5	<2	2	22	3	166	38
R2 89PP-R001		13	0.2	10	113	<0.5	3	<1	16	15	23	44
R2 89PP-R002		18	0.2	35	57	<0.5	<2	<1	18	15	46	55
R2 89PP-R003		76	20.9	554	105	<0.5	<2	<1	8	19	44	41
R2 89PP-R004		678	10.0	478	98	<0.5	<2	<1	23	<1	53	16
R2 89PP-R005		8	<0.2	14	218	<0.5	<2	<1	19	14	8	12
R2 89PP-R006		6	<0.2	53	88	<0.5	<2	<1	<5	54	856	64
R2 89PP-R007		8	<0.2	18	179	<0.5	<2	<1	14	21	26	26
R2 89PP-R008		<5	0.2	41	84	<0.5	<2	<1	24	4	46	13
R2 89PP-R009		<5	<0.2	45	240	<0.5	<2	<1	24	30	58	64
R2 89PP-R010		12	0.3	193	51	<0.5	<2	<1	<5	7	39	18
R2 89PP-R011		85	2.9	177	61	<0.5	<2	<1	23	16	9	31
R2 89PP-R012		66	8.7	967	26	<0.5	<2	<1	16	12	60	32
R2 89PP-R013		10	0.6	1236	35	<0.5	<2	<1	30	16	21	31
R2 89PP-R014		33	4.2	219	66	<0.5	<2	<1	16	6	30	14
R2 89PV-R001		<5	0.3	232	42	<0.5	<2	<1	27	1	75	17
R2 89PV-R002		6	5.7	184	57	<0.5	<2	<1	21	<1	80	13
R2 89PV-R003		24	16.5	334	33	<0.5	<2	3	10	8	108	54
R2 89P7-R001	↑	<5	<0.2	33	82	<0.5	<2	<1	25	11	16	19
R2 89P7-R002	Paradigm	<5	0.3	36	42	<0.5	<2	<1	10	11	43	84

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SAMPLE NUMBER	ELEMENT UNITS	Ga PPM	La PPM	Li PPM	Mo PPM	Nb PPM	Ni PPM	Pb PPM	Rb PPM	Sb PPM	Sc PPM	Sn PPM
I1 89PZ-L016		9	18	15	8	4	45	15	<20	<5	5	<20
R2 89PC-R001		<2	25	<1	5	<1	2	15	<20	<5	<1	<20
R2 89PC-R002		<2	16	<1	3	<1	3	114	<20	<5	<1	<20
R2 89PC-R003		<2	<1	<1	6	<1	1	9	<20	120	<1	<20
R2 89PE-R002		3	1	<1	6	1	6	30	<20	27	<1	<20
R2 89PE-R003		10	<1	1	7	5	9	5	<20	<5	<1	<20
R2 89PE-R004		5	12	3	3	17	<1	<2	25	<5	2	<20
R2 89PE-R005		9	7	14	7	6	55	2	<20	<5	8	<20
R2 89PE-R006		<2	18	<1	33	<1	3	17	<20	22	<1	<20
R2 89PE-R007		11	2	9	2	6	57	6	<20	<5	3	<20
R2 89PE-R008		<2	2	6	5	<1	3	18	<20	<5	1	<20
R2 89PE-R009		9	5	1	4	7	2	9	<20	8	2	<20
R2 89PE-R010		1	<1	6	6	2	4	13	<20	<5	1	<20
R2 89PE-R011		13	10	9	3	5	3	15	<20	<5	5	<20
R2 89PE-R012		<2	15	<1	23	<1	2	20	<20	15	<1	<20
R2 89PO-R001		<2	3	<1	2	<1	2	18	<20	<5	<1	<20
R2 89PO-R002		<2	9	<1	9	<1	5	24	21	<5	<1	<20
R2 89PO-R004		15	1	9	<1	7	20	<2	32	<5	3	<20
R2 89PO-R009		2	21	<1	4	<1	2	11	<20	<5	<1	<20
R2 89PO-R010		3	15	<1	17	2	3	21	23	8	<1	<20
R2 89PO-R013		<2	10	<1	3	<1	5	39	<20	50	<1	<20
R2 89PP-R001		11	6	11	3	13	21	4	<20	<5	7	<20
R2 89PP-R002		11	8	14	3	5	31	5	28	<5	8	<20
R2 89PP-R003		14	4	17	1	13	25	20	<20	6	9	<20
R2 89PP-R004		2	11	<1	<1	<1	2	19	<20	7	<1	<20
R2 89PP-R005		18	9	19	1	8	1	<2	<20	<5	4	<20
R2 89PP-R006		59	<1	38	<1	37	503	6	<20	16	19	22
R2 89PP-R007		13	6	18	3	13	11	<2	<20	<5	9	<20
R2 89PP-R008		5	12	4	3	2	15	10	<20	<5	2	<20
R2 89PP-R009		12	12	15	1	11	70	<2	<20	<5	17	<20
R2 89PP-R010		<2	<1	<1	2	<1	5	13	<20	15	2	<20
R2 89PP-R011		3	12	<1	2	2	25	24	<20	6	2	<20
R2 89PP-R012		6	7	7	16	3	22	15	<20	21	3	<20
R2 89PP-R013		5	13	4	3	3	23	4	<20	55	3	<20
R2 89PP-R014		<2	8	<1	4	<1	13	14	<20	15	1	<20
R2 89PV-R001		3	13	<1	10	2	1	21	<20	10	<1	<20
R2 89PV-R002		9	10	18	2	4	1	22	<20	<5	1	<20
R2 89PV-R003		<2	3	<1	31	1	37	47	<20	18	<1	<20
R2 89PZ-R001		12	12	7	1	5	2	15	<20	<5	2	<20
R2 89PZ-R002		8	4	8	10	4	49	9	34	<5	6	<20

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SAMPLE NUMBER	ELEMENT UNITS	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zn PPM	Zr PPM
T1 89PZ-L016		49	<10	<10	67	<10	19	436	1
R2 89PC-R001		6	<10	<10	1	<10	3	16	3
R2 89PC-R002		15	<10	<10	<1	<10	2	26	2
R2 89PC-R003		3	<10	<10	<1	<10	<1	7	4
R2 89PE-R002		46	<10	<10	1	<10	2	103	4
R2 89PE-R003		55	<10	<10	4	<10	2	31	2
R2 89PE-R004		577	<10	<10	2	<10	12	22	2
R2 89PE-R005		118	<10	<10	35	<10	11	36	2
R2 89PE-R006		24	<10	<10	<1	<10	5	159	3
R2 89PE-R007		67	<10	<10	20	<10	5	30	2
R2 89PE-R008		10	<10	<10	13	<10	3	23	3
R2 89PE-R009		728	<10	<10	1	<10	8	138	4
R2 89PE-R010		24	<10	<10	7	<10	3	38	2
R2 89PE-R011		55	<10	<10	22	<10	12	66	2
R2 89PE-R012		4	<10	<10	<1	<10	2	19	3
R2 89PO-R001		31	<10	<10	13	<10	4	2	1
R2 89PO-R002		6	<10	<10	1	<10	2	19	4
R2 89PO-R004		54	<10	<10	171	<10	5	87	9
R2 89PO-R009		26	<10	<10	1	<10	4	18	4
R2 89PO-R010		49	<10	<10	4	<10	6	241	3
R2 89PO-R013		13	<10	<10	<1	<10	4	201	3
R2 89PP-R001		114	<10	<10	35	<10	9	80	4
R2 89PP-R002		16	<10	<10	46	<10	13	110	3
R2 89PP-R003		117	<10	<10	48	<10	9	69	1
R2 89PP-R004		3	<10	<10	1	<10	2	23	2
R2 89PP-R005		76	<10	<10	77	<10	12	92	2
R2 89PP-R006		484	<10	15	103	<10	7	69	2
R2 89PP-R007		413	<10	<10	71	<10	11	83	2
R2 89PP-R008		16	<10	<10	12	<10	7	37	3
R2 89PP-R009		245	<10	<10	73	<10	14	66	1
R2 89PP-R010		23	<10	<10	11	<10	3	116	2
R2 89PP-R011		22	<10	<10	9	<10	8	64	2
R2 89PP-R012		29	<10	<10	21	<10	5	101	2
R2 89PP-R013		33	<10	<10	14	<10	12	102	3
R2 89PP-R014		3	<10	<10	8	<10	<1	10	2
R2 89PV-R001		22	<10	<10	1	<10	2	25	3
R2 89PV-R002		59	<10	<10	2	<10	4	72	4
R2 89PV-R003		34	<10	<10	8	<10	8	493	2
R2 89PZ-R001		32	<10	<10	22	<10	9	62	1
R2 89PZ-R002		10	<10	<10	40	<10	8	145	7

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R2 89PZ-R003	Paradigm ↓	81	7.9	172	62	<0.5	<2	43	9	8	90	52
R2 89PZ-R004		<5	<0.2	45	93	<0.5	<2	<1	12	49	45	27
R2 89PZ-R005		<5	0.4	104	87	<0.5	<2	<1	35	11	57	25
R2 89PZ-R006		17	1.5	104	46	<0.5	4	<1	22	14	38	28
R2 89PZ-R007		<5	0.2	75	164	<0.5	2	<1	22	5	24	75
R2 89PZ-R008		271	0.3	199	82	<0.5	<2	<1	17	9	55	33
R2 89PZ-R009		62	0.4	843	70	<0.5	<2	3	6	13	60	74
R2 89PZ-R010		21	0.4	175	105	<0.5	<2	<1	6	10	36	42
R2 89PZ-R017		18	<0.2	<5	122	<0.5	<2	<1	<5	5	26	31
R2 89PZ-R018		6	1.1	41	49	<0.5	<2	<1	22	12	20	61
R2 89PZ-R019		52	2.0	987	27	<0.5	<2	<1	6	7	67	38
R2 89PZ-R020	↑	50	1.4	686	33	<0.5	<2	<1	8	11	50	51
R2 89PZ-R021	Paradigm	<5	0.2	55	51	<0.5	<2	<1	15	37	154	96

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R2 89PZ-R003		8	4	<1	17	4	17	423	<20	19	2	<20
R2 89PZ-R004		6	5	10	2	20	79	7	65	7	7	<20
R2 89PZ-R005		13	17	13	6	6	19	8	<20	<5	5	<20
R2 89PZ-R006		13	10	3	3	7	24	20	<20	6	4	<20
R2 89PZ-R007		4	10	<1	<1	2	9	15	<20	13	2	<20
R2 89PZ-R008		1	8	<1	<1	1	14	53	<20	8	2	<20
R2 89PZ-R009		2	<1	3	2	<1	11	17	<20	27	3	<20
R2 89PZ-R010		5	2	3	2	2	13	19	<20	33	4	<20
R2 89PZ-R017		8	1	10	3	2	2	10	<20	<5	3	<20
R2 89PZ-R018		7	9	9	5	3	19	12	<20	6	4	<20
R2 89PZ-R019		9	1	15	6	2	19	43	<20	68	4	<20
R2 89PZ-R020		11	3	18	4	8	21	36	<20	51	4	<20
R2 89PZ-R021		30	5	43	3	13	57	<2	<20	<5	17	<20

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SAMPLE NUMBER	ELEMENT UNITS	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zn PPM	Zr PPM
R2 89PZ-R003		81	<10	<10	6	26	4	3393	1
R2 89PZ-R004		193	<10	<10	21	<10	9	58	2
R2 89PZ-R005		50	<10	<10	41	<10	12	89	2
R2 89PZ-R006		101	<10	<10	16	<10	8	82	2
R2 89PZ-R007		74	<10	<10	8	<10	1	31	2
R2 89PZ-R008		9	<10	<10	6	<10	3	83	4
R2 89PZ-R009		20	<10	<10	19	<10	3	279	1
R2 89PZ-R010		17	<10	<10	18	<10	4	40	2
R2 89PZ-R017		8	<10	<10	28	<10	5	41	2
R2 89PZ-R018		9	<10	<10	28	<10	7	107	2
R2 89PZ-R019		11	<10	<10	74	<10	4	88	2
R2 89PZ-R020		12	<10	<10	79	<10	5	193	2
R2 89PZ-R021		151	<10	<10	232	<10	11	88	2

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PROJECT: UNUK

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	Ba PPM	Be PPM	Bi PPM	Cd PPM	Ce PPM	Co PPM	Cr PPM	Cu PPM
T1 89KC-L 041	Paradigm 5	6	0.2	70	217	<0.5	5	<1	37	21	42	31
T1 89KC-L 043	Paradigm 5	13	0.2	55	239	<0.5	5	<1	34	19	38	45

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REPORT: V89-07576.0

PROJECT: UNUK

SAMPLE NUMBER	ELEMENT UNITS	Ga PPM	La PPM	Li PPM	Mo PPM	Nb PPM	Ni PPM	Pb PPM	Rb PPM	Sb PPM	Sc PPM	Sn PPM
T1 89KC-L 041		20	11	22	3	12	43	12	<20	11	4	<20
T1 89KC-L 043		20	14	19	4	11	43	15	<20	10	4	<20

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SAMPLE NUMBER	ELEMENT UNITS	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zn PPM	Zr PPM
T1 89KC-L 041		28	<10	<10	72	<10	10	168	4
T1 89KC-L 043		49	<10	<10	43	<10	14	146	4

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	Ba PPM	Be PPM	Bi PPM	Cd PPM	Ce PPM	Co PPM	Cr PPM	Cu PPM
R2 89KC-R 042 PARADIGMS		<5	<0.2	<5	93	<0.5	3	<1	15	16	16	29

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SAMPLE NUMBER	ELEMENT UNITS	Ga PPM	La PPM	Li PPM	Mo PPM	Nb PPM	Ni PPM	Pb PPM	Rb PPM	Sb PPM	Sc PPM	Sn PPM
R2 89KC-R 042		21	7	20	2	10	6	<2	<20	<5	8	<20

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SAMPLE NUMBER	ELEMENT UNITS	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zn PPM	Zr PPM
R2 89KC-R 042		54	<10	<10	134	<10	10	52	6

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PROJECT: UNUK

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	Ba PPM	Be PPM	Bi PPM	Cd PPM	Ce PPM	Co PPM	Cr PPM	Cu PPM
R2 KVR 28		<5	0.2	25	70	<0.5	7	<1	19	8	94	25

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V7P 2R5
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SAMPLE NUMBER	ELEMENT UNITS	Ga PPM	La PPM	Li PPM	Mo PPM	Nb PPM	Ni PPM	Pb PPM	Rb PPM	Sb PPM	Sc PPM	Sn PPM
R2 KYR 28		18	5	13	3	12	42	15	<20	8	4	<20

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SAMPLE NUMBER	ELEMENT UNITS	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zn PPM	Zr PPM
R2 KVR 28		299	<10	<10	42	<10	7	89	2

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	Ba PPM	Be PPM	Bi PPM	Cd PPM	Ce PPM	Co PPM	Cr PPM	Cu PPM
R2 PYR01	Paradigm ↓	39	0.5	32	298	<0.5	<2	2	32	4	41	21
R2 PYR02		28	0.3	76	47	<0.5	<2	2	<5	10	29	25
R2 PYR03		18	0.2	<5	111	<0.5	3	<1	9	17	10	26
R2 PYR04	↑	32	0.4	78	37	<0.5	4	1	<5	10	29	28
R2 PYR05	Paradigm	18	<0.2	<5	102	<0.5	4	<1	18	2	18	16

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SAMPLE NUMBER	ELEMENT UNITS	Ga PPM	La PPM	Li PPM	Mo PPM	Nb PPM	Ni PPM	Pb PPM	Rb PPM	Sb PPM	Sc PPM	Sn PPM
R2 PYR01		5	18	8	5	3	10	24	<20	10	2	<20
R2 PYR02		7	8	7	6	5	10	27	<20	13	3	<20
R2 PYR03		9	11	16	4	9	12	4	<20	8	3	<20
R2 PYR04		8	7	7	4	6	11	24	<20	10	2	<20
R2 PYR05		6	14	5	9	3	6	14	<20	6	5	<20

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REPORT: V89-06962.0

PROJECT: PARADIGM

SAMPLE NUMBER	ELEMENT UNITS	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zn PPM	Zr PPM
R2 PYR01		34	13	<10	16	<10	5	75	2
R2 PYR02		68	<10	<10	17	<10	7	79	2
R2 PYR03		101	18	<10	33	<10	10	61	2
R2 PYR04		84	12	<10	13	<10	6	90	2
R2 PYR05		28	<10	<10	22	<10	9	35	3

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A DIVISION OF INSTITUTE INSPECTION & TESTING SERVICES

Geochemical Lab Report

DATE PRINTED: 20-OCT-89

REPORT: V89-06960.0

PROJECT: UNUK

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	Ba PPM	Be PPM	Bi PPM	Cd PPM	Ce PPM	Co PPM	Cr PPM	Cu PPM
T1 89PZL011	Paradigm	22	0.3	20	178	<0.5	4	3	20	20	19	33
T1 89PZL012		21	0.5	<5	234	<0.5	4	1	22	25	27	31
T1 89PZL013		12	1.1	35	181	<0.5	<2	6	24	26	18	38
T1 89PZL014		23	0.6	28	163	<0.5	4	3	21	20	19	47
T1 89PZL015	Paradigm	38	0.6	39	161	<0.5	4	3	25	21	21	57

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Geochemical Lab Report

DATE PRINTED: 20-OCT-89

REPORT: V89-06960.0

PROJECT: UNUK PAGE 2B

SAMPLE NUMBER	ELEMENT UNITS	Ga PPM	La PPM	Li PPM	Mo PPM	Nb PPM	Ni PPM	Pb PPM	Rb PPM	Sb PPM	Sc PPM	Sn PPM
T1 89PZL011		15	8	22	6	8	30	16	<20	11	4	<20
T1 89PZL012		16	10	26	8	11	37	11	<20	7	5	<20
T1 89PZL013		16	9	22	9	8	36	19	<20	11	5	<20
T1 89PZL014		15	9	23	7	7	33	19	<20	9	5	<20
T1 89PZL015		16	10	25	8	7	35	23	<20	12	6	<20

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Geochemical Lab Report

DATE PRINTED: 20-OCT-89

REPORT: V89-06960.0

PROJECT: UNUK

SAMPLE NUMBER	ELEMENT UNITS	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zn PPM	Zr PPM
T1 89PZL011		53	<10	<10	53	<10	10	270	4
T1 89PZL012		82	<10	<10	55	<10	12	162	7
T1 89PZL013		56	<10	<10	70	<10	11	384	3
T1 89PZL014		54	<10	<10	79	<10	12	317	2
T1 89PZL015		55	<10	<10	89	<10	13	329	2

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

REPORT: V89-06781.0 (COMPLETE)

REFERENCE INFO:

CLIENT: KEEWATIN ENGINEERING INC.
PROJECT: PARADIGM

SUBMITTED BY: TERRAMIN RES. LAB
DATE PRINTED: 4-OCT-89

ORDER		ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au	Gold Fire Assay	93	5 PPB	FIRE-ASSAY	Fire Assay AA
2	Ag	Silver	93	0.2 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
3	As	Arsenic	93	5 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
4	Ba	Barium	93	1 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
5	Be	Beryllium	93	0.5 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
6	Bi	Bismuth	93	2 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
7	Cd	Cadmium	93	1 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
8	Ce	Cerium	93	5 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
9	Co	Cobalt	93	1 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
10	Cr	Chromium	93	1 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
11	Cu	Copper	93	1 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
12	Ga	Gallium	93	2 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
13	La	Lanthanum	93	1 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
14	Li	Lithium	93	1 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
15	Mo	Molybdenum	93	1 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
16	Nb	Niobium	93	1 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
17	Ni	Nickel	93	1 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
18	Pb	Lead	93	2 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
19	Rb	Rubidium	93	20 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
20	Sb	Antimony	93	5 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
21	Sc	Scandium	93	1 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
22	Sn	Tin	93	20 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
23	Sr	Strontium	93	1 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
24	Ta	Tantalum	93	10 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
25	Te	Tellurium	93	10 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
26	V	Vanadium	93	1 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
27	W	Tungsten	93	10 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
28	Y	Yttrium	93	1 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
29	Zn	Zinc	93	1 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
30	Zr	Zirconium	93	1 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma

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Geochemical Lab Report

REPORT: V89-06781.0 (COMPLETE)

REFERENCE INFO:

CLIENT: KEEWATIN ENGINEERING INC.
PROJECT: PARADIGM

SUBMITTED BY: TERRAMIN RES. LAB
DATE PRINTED: 4-OCT-89

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
T STREAM SEDIMENT,SILT	41	1 -80	41	DRY, SIEVE -80	41
R ROCK OR BED ROCK	52	2 -150	52	CRUSH,PULVERIZE -150	52

REPORT COPIES TO: KEEWATIN ENGINEERING INC.
TATGA CONSULTANTS LTD.

INVOICE TO: KEEWATIN ENGINEERING INC.

LOKI GOLD PROPERTY

HEAVY MINERAL RESULTS

LAB NUMBER	FIELD NUMBER	LOCATI	Au(30g (ppb)	Ag (ppm)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Cd (ppm)	Ce (ppm)	Co (ppm)	Cr (ppm)	Cu (ppm)	Ga (ppm)	La (ppm)	Li (ppm)	Mo (ppm)	Nb (ppm)	Ni (ppm)	Pb (ppm)	Rb (ppm)	Sb (ppm)	Sc (ppm)	Sn (ppm)	Sr (ppm)	Ta (ppm)	Te (ppm)	V (ppm)	W (ppm)	Y (ppm)	Zn (ppm)	Zr (ppm)
67820015	89 P WH 9	LOK	50	[illegible]	238	91	-0.5	-2	5	-5	51	110	268	10	-1	15	14	5	74	36	-20	10	9	-20	49	16	-10	90	-10	15	742	11
67820016	89 P WH10	LOK	2238	[illegible]	[illegible]	157	-0.5	-2	7	17	57	173	411	18	-1	15	18	10	100	75	-20	17	10	-20	88	-10	-10	141	-10	21	842	16
75770049	89 K WH59	LOK	22	-0.2	86	[illegible]	-0.5	15	-1	10	42	123	57	13	9	12	5	7	83	24	-20	25	5	-20	90	14	16	120	-10	7	140	12

PARADIGM PROPERTY

HEAVY MINERAL RESULTS

LAB NUMBER	FIELD NUMBER	LOCATI	Au(30g (ppb)	Ag (ppm)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Cd (ppm)	Ce (ppm)	Co (ppm)	Cr (ppm)	Cu (ppm)	Ga (ppm)	La (ppm)	Li (ppm)	Mo (ppm)	Nb (ppm)	Ni (ppm)	Pb (ppm)	Rb (ppm)	Sb (ppm)	Sc (ppm)	Sn (ppm)	Sr (ppm)	Ta (ppm)	Te (ppm)	V (ppm)	W (ppm)	Y (ppm)	Zn (ppm)	Zr (ppm)
67820007	89 P WH 1	PAR	62	0.2	35	[illegible]	-0.5	-2	-1	10	23	183	68	17	5	7	4	8	34	3	-20	-5	10	-20	218	-10	-10	206	-10	14	119	14
67820008	89 P WH 2	PAR	30	[illegible]	[illegible]	255	-0.5	-2	7	10	35	158	195	11	-1	8	16	6	75	16	-20	12	10	-20	93	-10	-10	140	-10	16	774	17
67820009	89 P WH 3	PAR	19	0.9	129	[illegible]	-0.5	-2	-1	28	63	169	84	18	15	12	8	10	104	7	-20	8	7	-20	185	11	-10	163	-10	14	149	17
67820010	89 P WH 4	PAR	540	[illegible]	[illegible]	353	-0.5	-2	-1	41	90	191	224	34	8	15	37	26	159	67	-20	23	10	-20	102	-10	-10	158	-10	26	596	17
67820011	89 P WH 5	PAR	66	[illegible]	124	[illegible]	-0.5	-2	-1	16	39	171	98	16	9	13	14	8	82	24	-20	7	8	-20	157	-10	-10	172	-10	14	212	12
67820012	89 P WH 6	PAR	43	[illegible]	[illegible]	[illegible]	-0.5	4	2	62	85	267	146	56	31	16	32	30	141	89	-20	31	12	39	224	22	34	180	-10	37	639	4
67820013	89 P WH 7	PAR	30	0.8	164	395	-0.5	-2	2	43	97	217	119	34	10	13	22	23	182	16	-20	21	11	42	103	16	48	132	-10	20	327	20
67820014	89 P WH 8	PAR	75	[illegible]	[illegible]	467	-0.5	-2	-1	48	97	196	134	32	13	12	26	22	178	26	-20	24	11	24	104	-10	42	138	-10	21	403	24

SUMMARY OF EXPENDITURES

Mikhail #2

Personnel and Crew		$12,695.76
Transportation - helicopter/fixed wing/fuel		6,157.48
Camp - food/accommodation		2,442.75
Assay/Report/Drafting/Secretarial		5,719.69
	TOTAL EXPENDITURES:	**$27,015.68**

SUMMARY OF EXPENDITURES

Paradigm #2

Personnel and Crew		$12,695.76
Transportation - helicopter/fixed wing/fuel		6,157.48
Camp - food/accommodation		2,442.75
Assay/Report/Drafting/Secretarial		5,719.69
	TOTAL EXPENDITURES:	**$27,015.68**

MIKHAIL
2

PYR 5 (18,<0.2,<5,6)

871369(13,0.4,38,2.1)

871368(15,0.3,41,0.8)

PWH 10(2238,3.7,480,17)

PWH 9(50,1.3,238,10)

871370(5,0.5,50,5.0)

KYR 28(<5,0.2,25,8)

80

KCL 43(13,0.2,55,10)

KCR 42(<5,<0.2,<5,<5)

KCL 41(6,0.2,70,11)

Arc 34,11765 LSP
Arc 35,93550 LSP

KWH 59(22,<0.2,86,25)

HARRYMEL CREEK

56°34'

130°35'

LEGEND

◇ Regional stream silt sample site (Au ppb, Ag ppm, As ppm Sb ppm)

✱ Minfile mineral occurrence (Cu ppm, Pb ppm, Zn ppm, Au ppb, Ag ppm)

x Rock sample - outcrop (Au ppb, Ag ppm, As ppm, Sb ppm)

▲ Rock sample - float (Au ppb, Ag ppm, As ppm, Sb ppm)

● Stream silt sample (Au ppb, Ag ppm, As ppm, Sb ppm)

■ Heavy mineral sample (Au ppb, Ag ppm, As ppm, Sb ppm)

GEOLOGICAL BRANCH
ASSESSMENT REPORT

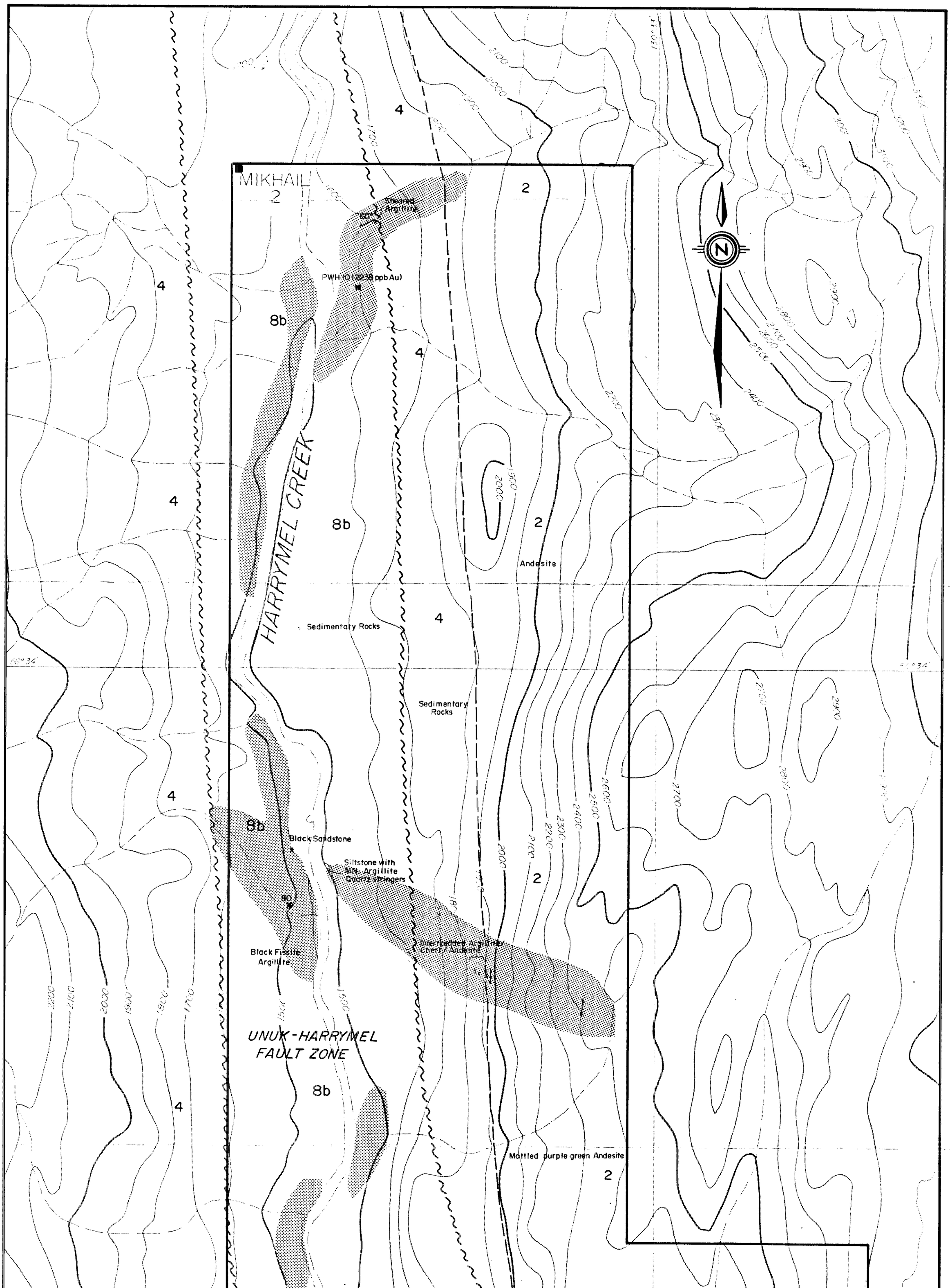
19,701

GEOLOGICAL ASSOCIATION OF CANADA
D. G. DuPRE

LOKI GOLD CORPORATION

PARADIGM PROJECT
1989 EXPLORATION SAMPLE LOCATIONS & RESULTS

DATE: OCT. 1989	NTS: 104 B/10
PROJECT: PARADIGM	
SCALE: 1:5000 (0 50 100 150 200 250 METRES)	
KEEWATIN ENGINEERING INC.	MAP No. 1



Volcanic Sedimentary Rocks

Volcanic Sedimentary Rocks

Pleistocene to Recent

[1] Basalt flows and tephra: dark brown to black, minor pillow lavas

Lower Jurassic (Pliensbachian to Toarcian)

[2] Betty Creek Formation: pyroclastic-epiclastic sequence, heterogeneous, grey-green, massive to bedded, pyroclastics and sedimentary rocks (black, thinly bedded siltstone, shale, and argillite)

Upper Triassic to Lower Jurassic (Norian to Sinemurian)

[3] Unuk River Formation: andesite sequence, green and grey, intermediate to mafic volcaniclastics and flows, with locally thick interbeds of fine-grained immature sediments, minor conglomerates, and limestone

Upper Triassic (Carnian to Norian)

[4] Stuhini Group: brown, black, grey; mixed sedimentary rocks (siltstone, shale, argillite, limestone, chert), with minor mafic to intermediate volcanics and volcaniclastic rocks

Intrusive Rocks

Tertiary

[5] Post-Tectonic Dykes

King Creek Dyke Swarm: feldspar porphyry dacite, andesite, diabase, and hornblende to quart diorite; limits of the unit shown indicate where the dykes exceed 50% of the exposed bedrock

[9] Hawilson Monzonite - fine grained monzonite

[6] Coast Plutonic Complex: hornblende-biotite-quartz diorite to granodiorite.

Jurassic

[7] Unuk River Diorite Suite:
- a) Max: biotite-hornblende diorite, quartz diorite, granodiorite
- b) Melvelle: hornblende-biotite diorite, quartz diorite

Metamorphic Rocks

[8] Metamorphic equivalents of Units 1, 2, or 3
- a) hornblende, mylonite gneiss, mylonite
- b) Unuk-Harrymel Fault Zone, strongly sheared rock within fault zone

SYMBOLS

- Geological contact (observed, assumed)
- Bedding with dip
- Foliation
- Regional anticline
- Fault (defined, assumed)
- Airphoto lineament
- Regional stream silt sample site (Au ppb, Ag ppm, As ppm Sb ppm)
- Minfile mineral occurrence (Cu ppm, Pb ppm, Zn ppm, Au ppb, Ag ppm)
- Rock sample - outcrop (Au ppb, Ag ppm, As ppm, Sb ppm)
- Rock sample - float (Au ppb, Ag ppm, As ppm, Sb ppm)
- Stream silt sample (Au ppb, Ag ppm, As ppm, Sb ppm)
- Heavy mineral sample (Au ppb, Ag ppm, As ppm, Sb ppm)
- Trench
- 1989 Prospecting Coverage

GEOLOGICAL BRANCH ASSESSMENT REPORT

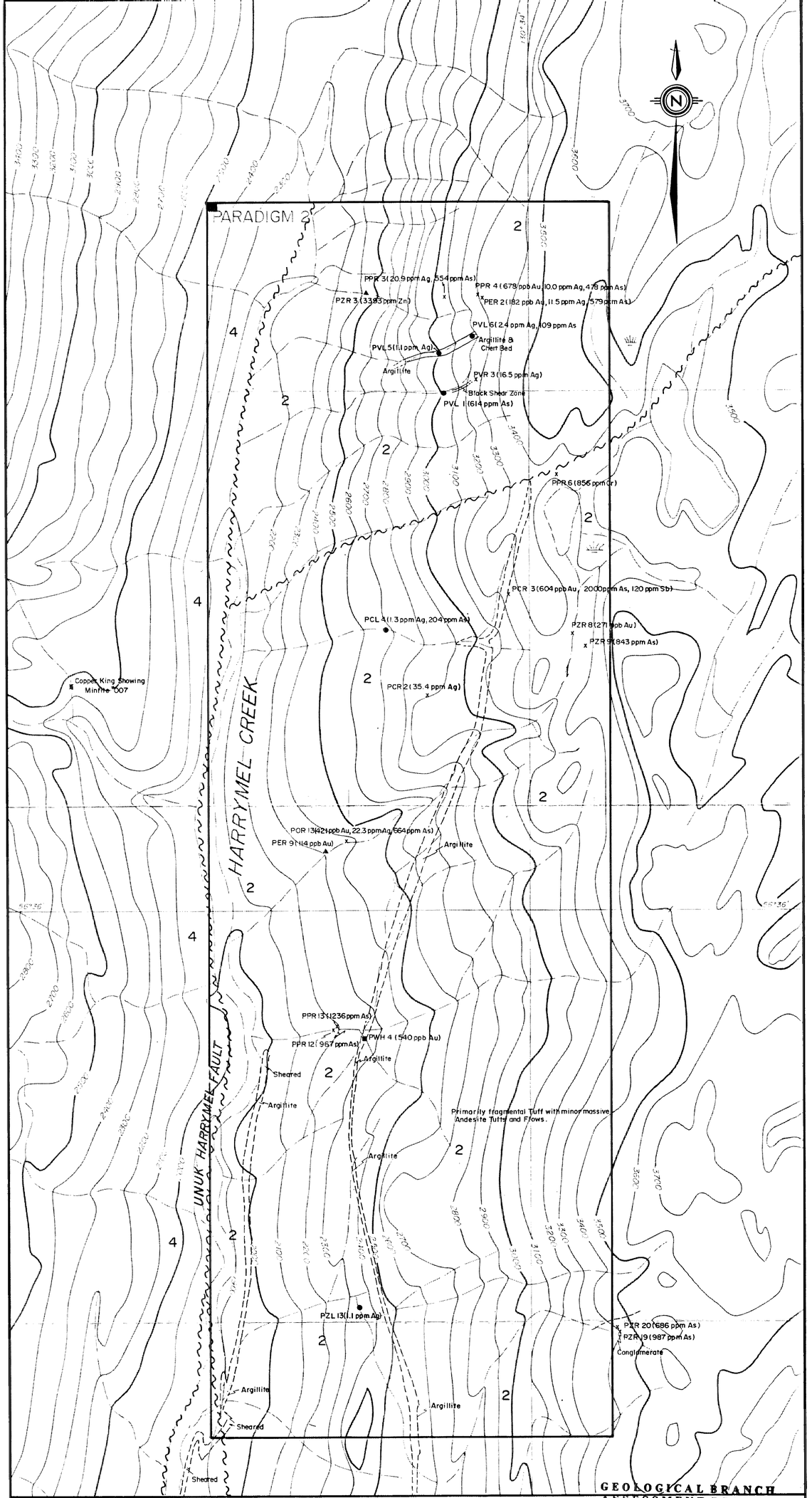
19,701

LOKI GOLD CORPORATION

PARADIGM PROJECT

GEOLOGY & ANOMALOUS VALUES

DATE: OCT. 1989	NTS: 104 B /10
PROJECT: PARADIGM	
SCALE: 1:5000 (0 50 100 150 200 250 METRES)	
KEEWATIN ENGINEERING INC.	MAP No. 2



Volcanic Sedimentary Rocks

Pleistocene to Recent
1 Basalt flows and tephra: dark brown to black, minor pillow lavas

Lower Jurassic (Pliensbachian to Toarcian)
2 Betty Creek Formation: pyroclastic-epiclastic sequence, heterogeneous, grey-green, massive to bedded, pyroclastics and sedimentary rocks (black, thinly bedded siltstone, shale, and argillite)

Upper Triassic to Lower Jurassic (Norian to Sinemurian)
3 Unuk River Formation: andesite sequence, green and grey, intermediate to mafic volcaniclastics and flows, with locally thick interbeds of fine-grained immature sediments, minor conglomerates, and limestone

Upper Triassic (Carnian to Norian)
4 Stuhini Group: brown, black, grey; mixed sedimentary rocks (siltstone, shale, argillite, limestone, chert), with minor mafic to intermediate volcanics and volcaniclastic rocks

Intrusive Rocks

Tertiary
5 Post-Tectonic Dykes

King Creek Dyke Swarm: feldspar porphyry dacite, andesite, diabase, and hornblende to quart diorite; limits of the unit shown indicate where the dykes exceed 50% of the exposed bedrock

9 Hawilton Monzonite - fine grained monzonite

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Jurassic
7 Unuk River Diorite Suite:
a) Max: biotite-hornblende diorite, quartz diorite, granodiorite
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Metamorphic Rocks

8 Metamorphic equivalents of Units 1, 2, or 3
a) hornblende, mylonite gneiss, mylonite
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SYMBOLS

- Geological contact (observed, assumed)
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GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,701

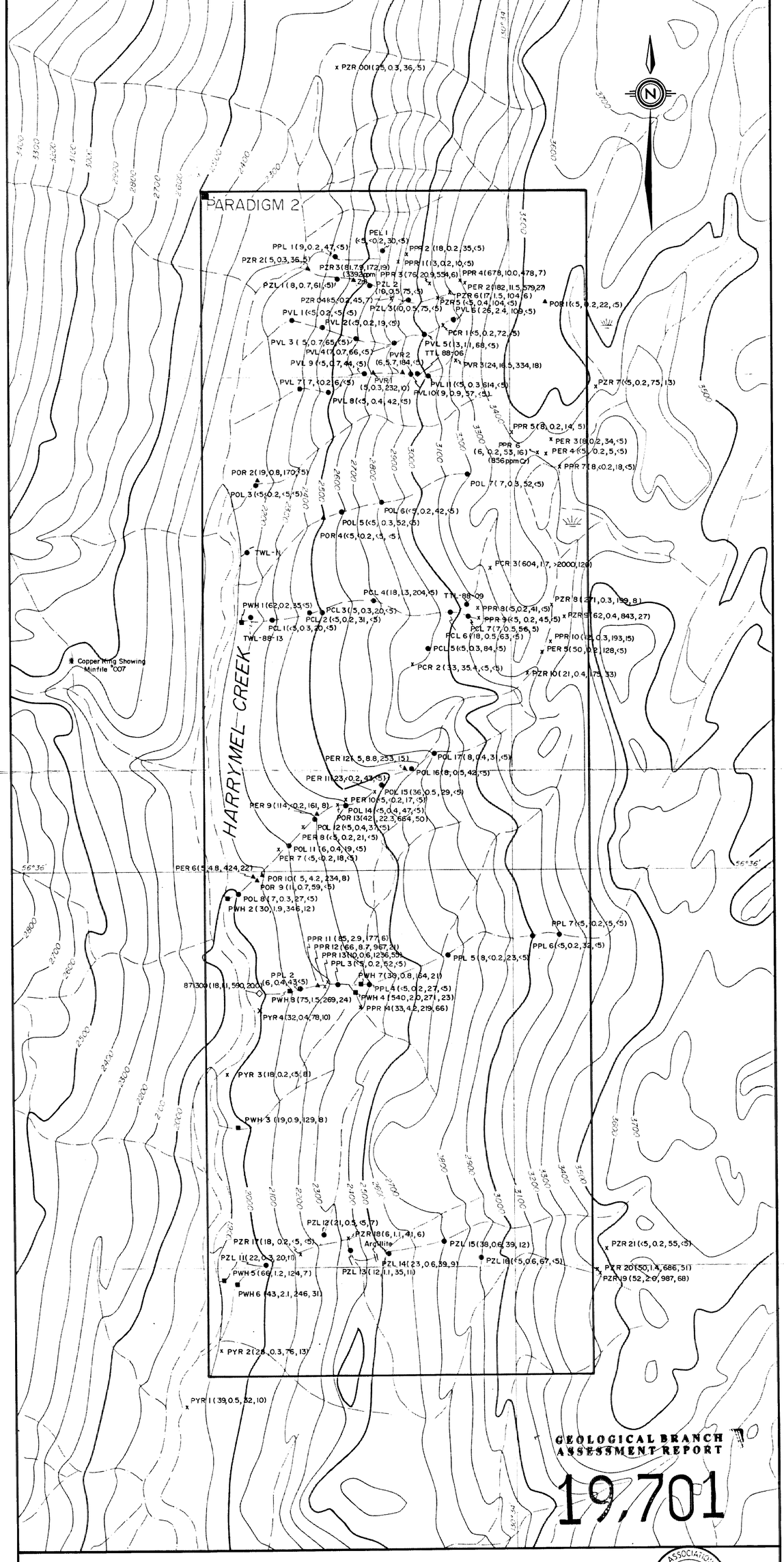
GEOLOGICAL ASSOCIATION OF CANADA
D. G. DuPRE
FELLOW

LOKI GOLD CORPORATION

PARADIGM PROJECT
GEOLOGY & ANOMALOUS VALUES

DATE: OCT., 1989 | NTS: 104 B/10
PROJECT:
SCALE: 1:5000 (0 50 100 150 200 250 METRES)

KEEWATIN ENGINEERING INC. | MAP No. 3



GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,701

LEGEND

- ◇ Regional stream silt sample site (Au ppb, Ag ppm, As ppm Sb ppm)
- ✱ Minfile mineral occurrence (Cu ppm, Pb ppm, Zn ppm, Au ppb, Ag ppm)
- x Rock sample - outcrop (Au ppb, Ag ppm, As ppm, Sb ppm)
- ▲ Rock sample - float (Au ppb, Ag ppm, As ppm, Sb ppm)
- ● Stream silt sample (Au ppb, Ag ppm, As ppm, Sb ppm)
- ■ Heavy mineral sample (Au ppb, Ag ppm, As ppm, Sb ppm)

GEOLOGICAL ASSOCIATION OF CANADA
D. G. DuPRE

LOKI GOLD CORPORATION

PARADIGM PROJECT

1989 EXPLORATION SAMPLE LOCATION & RESULTS

DATE: OCT., 1989	NTS: 104 B/10
PROJECT:	
SCALE: 1:5000	0 50 100 150 200 250 METRES

KEEWATIN ENGINEERING INC. | MAP No. 4