1998
GEOLOGICAL AND GEOCHEMICAL ASSESSMENT REPORT ON THE MCQUESTEN PROJECT

093985 Vol. 1

Quartz Claims

Doug 1-4	YB28942-28945
Doug 5-8	YB28998-29001
Doug 9	YB29395
Jarret 1	YB29440
Lakehead 1-2	YB64184-64185
Lakehead 3-4	YB64192-64193
Lakehead 5-10	YB64186-64191
Lakehead 11-13	YB64194-64196
Mary 1-4	YB29002-29005
Mary 5-6	YB29393-29394
South Fr	YC01211
Park Fr	YC01212

Mayo Mining District
N.T.S. 105 M/13

Latitude: 63°53' N
Longitude: 135°40' W

Owner: Bernard Kreft

Author: Carl Schulze
Viceroy Exploration (Canada), Inc.

Date of work: May to August 1998

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SUMMARY

The McQuesten Project, formerly called the "Wayne Property", is located along the west margin of the Keno Hill Mining District northeast of Mayo, Yukon. The district has been affected by the Tombstone Strain Zone, related to the underlying Tombstone Thrust Fault, resulting in development of a pervasive foliation. The property is underlain by variably calcareous metaclastic sediments, graphitic schist and limestone of the Late PreCambrian Hyland Group obducted onto Devonian - Mississippian Keno Hill Quartzite sediments to the north along the south dipping Robert Service Thrust. The E-W striking, moderately south dipping strata has been disrupted by a series of roughly E-W striking detachment structures related to the fault. These have caused structural preparation of affected rocks, resulting in increased permeability amenable to fluid movement. Late Cretaceous quartz monzonite dykes variably intrude these structures. Potentially economic gold occurs within and along footwall contacts of the dykes, and within structurally disturbed areas in calcareous sediments. A broad deformation zone related to the Robert Service Thrust has caused widespread structural preparation within abundant reactive sediments.

Two major zones have been identified: the West and East Zones. The West Zone hosts the major dyke recognised to date, which variably crosscuts reactive and non-reactive stratigraphy. Reverse circulation drilling in 1997 returned values to 1.77 gpt Au/ 35.3 metres. Drilling returned values of 3.23 gpt Au/ 21.3 metres across calcareous sediments with abundant gouge zones north of the dyke. Trenching , 500 meters ENE of the West Zone, returned 2.05 gpt/ 36 meters across both a fault controlled dike and calcareous footwall phyllites. This illustrates the necessity of both structural control and reactive, calcareous host rock for formation of mineralized horizons. The East Zone, located roughly 600 metres ESE of the West Zone, consists of thick mineralized horizons in calcareous sediments. Gold is associated within abundant zones of structural disturbance visible only in trench excavation and drill core. Trench results include: 0.33 gpt Au/ 148 metres, 1.59 gpt Au/ 14 metres, open to the east, and 0.82 gpt Au/ 98 metres from an east-west trench illustrating lateral extent of mineralization. Induced polarization surveys reveal a promising anomaly just south of the East Zone.

Composite grab sampling across the "Southeast Occurrence" in T9826, 1.5 km east of the East Zone, returned values to 0.40 gpt Au/ 20 metres near previous sampling returning 2.50 gpt Au. Ground and airborne magnetometer data suggests that the East Zone and Southeast Occurrence are part of a continuous 2.4 km mineralized trend.

Sediment hosted bulk tonnage potential is enhanced by the presence of narrow high grade gouge and fault zones, returning values to 51.87 gpt Au within broad zones of low grade gold mineralization. The East and West Zones appear bounded by graphitic horizons, which also occur in the Southeast Occurrence. These units, easily identified with induced polarization surveys, may be used as marker horizons to delineate mineralized members between the East Zone and Southeast Occurrence.

Results from bottle roll testing indicate that most of the gold occurs as fairly coarse free particles, and does not report to pyrrhotite. Recoveries from drill samples ranged from 56 to 75% after 72 hours, still increasing up to 92% over 24 hours, with best recoveries obtained from unoxidized sulphide material at a depth of 91 metres. This suggests heap leaching techniques for ore extraction may be feasible.

A district scale zonation caused by fluid reactivation related to the Tombstone suite intrusives occurs. This ranges from copper-tungsten mineralization with minor gold in the Scheelite Dome area to the west through gold-bismuth mineralization near the property, to abundant lead-zinc-silver veining centred at Keno City to the east. The McQuesten Project and surrounding properties are located at the optimum distance from these stocks for emplacement of gold mineralization. A major gold camp, just beginning to be recognised, may be centred at the McQuesten Property.

The 1999 exploration program is designed to outline mineral resources underlying the property. Reverse circulation drilling is proposed to test strike extension and lateral extent of mineralized zones within the West and East Zones. Drilling expenditures should not be less than CDN$200,000, resulting in at least 1500 metres of drilling.

CHAPTER ONE: INTRODUCTION

1.1 Introductory Statement

The McQuesten Project, formerly called the "Wayne Property", is located northeast of Mayo, central Yukon on NTS Sheet 105M/13 (Figures 1 and 2). It consists of 31 quartz mining claims consisting of the DOUG 1-9 claims, the Mary 1-6 claims, the Jarrett 1 claim, the Lakehead 1-13 claims, and the South Fr. and Park Fr. claims (Figure 4). The property is bounded to the west by the Snowdrift Property, held by United Keno Hill Mines Ltd (UKHM), to the north by the KPO and Buconjo Claims (UKMH), and to the south by the Aurex Property (Yukon Revenue Mines Ltd.).

An option agreement was signed in October, 1997 between Viceroy International Exploration (VIE) and a joint venture between Eagle Plains Resources (EPL) and Miner River Resources (MRG). In early 1999 Viceroy International Exploration Ltd. transferred 100% of its Canadian interests to Viceroy Exploration (Canada) Inc. (VEC). Mr. Bernard Kreft, the original vendor, retains a 2% Net Smelter Return interest on the property.

This report covers the 1998 VEC work program, and incorporates the results of the 1997 trenching and surface exploration, the 1997 RC drilling by EPL and MRG, geophysical surveys by Hemlo Gold Mines Inc. (Hemlo), and the 1981 and 1983 diamond drilling by Island Mining & Exploration Co. Ltd.

1.2 Location and Access

The McQuesten Project is located at 63° 53' North latitude, 135° 40' West longitude (NTS sheet 105M/13), roughly 40 kilometres northeast of Mayo, in the central Yukon (Figures 1 and 2). The property is accessed by the all-weather Silver Trail gravel highway. Direct vehicle access extends onto known mineralized zones on the western portion of the property via an unserviced airstrip and old logging roads. Permission to conduct surface exploration, including trenching, across the strip was granted by Transport Canada in 1997.

Mayo is a full service community with an available workforce, and some contracting facilities.

A power transmission line originating at the Wareham Dam 10 kilometres north of Mayo extends across the property. Generating capacity of this facility is roughly 5 Megawatts (Yukon Energy Corporation).

1.3 Physiography and Vegetation

Topography of the McQuesten Project consists of the gently north sloping, subtly terraced south flank of the broad glaciated McQuesten River valley. Locally, terraces result in steep embankments up to 7 metres in height. Elevation ranges from 2300 to 3000 feet (700 to 900 metres). Thin to moderate glacial till with limited outcrop exposure overlies the west-central area; thicker till overlies the rest of the property. Outcrop exposure is poor, although slightly more abundant along terraced areas.

Fairly thin black spruce forest, somewhat thicker along terraces cover the entire property. The disturbed areas along the airstrip and trenched areas are covered by thick scrub vegetation. Permafrost underlies much of the property, although none has been observed along flat and terraced areas.

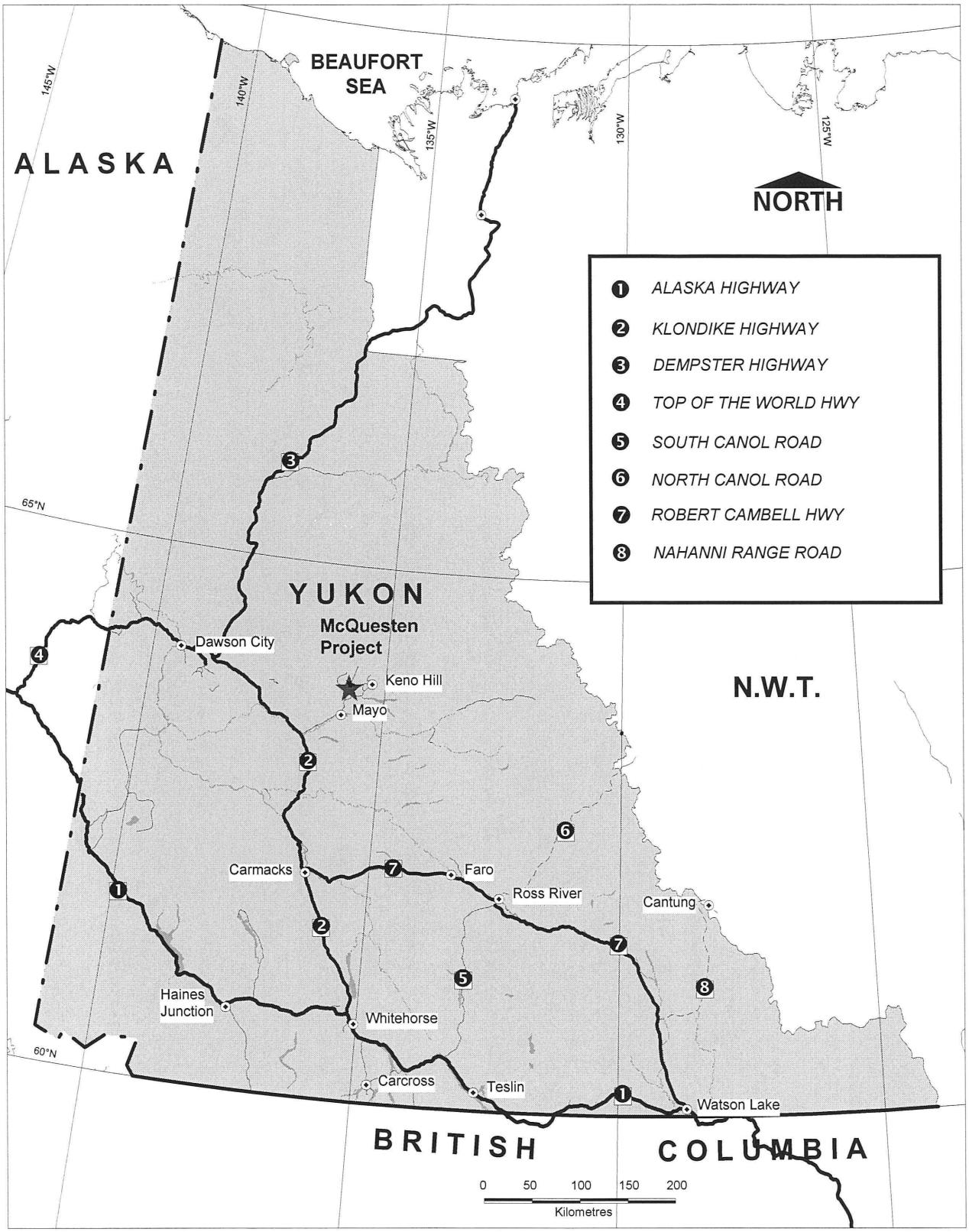
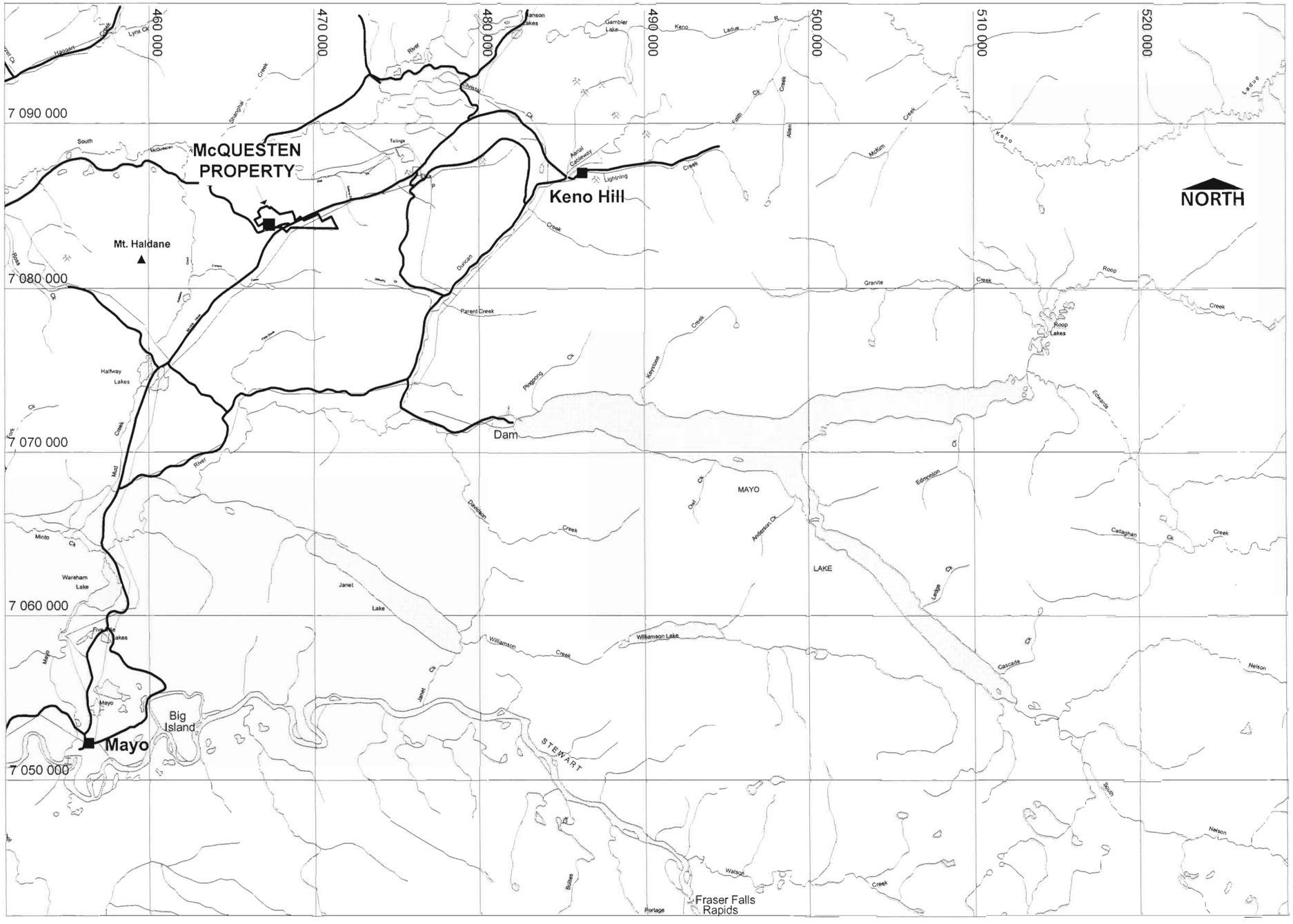


FIGURE 1: GENERAL LOCATION MAP



VICEROY RESOURCE CORPORATION

McQUESTEN PROJECT, YUKON

REGIONAL LOCATION MAP

-2 0 2 4 6

Kilometres

	DATE: Feb 1998	NTS:	105 M/13
	SCALE: 1:250,000	FIGURE NO:	2

1.4 Claim Status

The property consists of twenty-nine quartz mining claims and two fractional quartz claims located on NTS sheet 105M/13 in the Mayo Mining District (Figure 4). A summary of the claims are tabulated in Table 1 . Upon acceptance of this report and 1998 work the fractional claims will remain in good standing until March, 2004, and the other 29 claims will remain in good standing until March, 2007.

STATUS OF CLAIMS AFTER 1998 FILING

Claim Name	Owner	Grant Number	Expiry Date	Work Completed For
Doug 1-4	Bernard Kreft	YB28942-YB28945	March 4, 2007	Viceroy
Doug 5-8	Bernard Kreft	YB28998-YB29001	March 4, 2007	Viceroy
Doug 9	Bernard Kreft	YB29395	March 4, 2007	Viceroy
Jarret 1	Bernard Kreft	YB29440	March 4, 2007	Viceroy
Lakehead 1-2	Bernard Kreft	YB64184-YB64185	March 4, 2007	Viceroy
Lakehead 5-10	Bernard Kreft	YB64186-YB64191	March 4, 2007	Viceroy
Lakehead 3-4	Bernard Kreft	YB64192-YB64193	March 4, 2007	Viceroy
Lakehad 11-13	Bernard Kreft	YB64194-YB64196	March 4, 2007	Viceroy
Mary 1-4	Bernard Kreft	YB29002-YB29005	March 4, 2007	Viceroy
Mary 6-5	Bernard Kreft	YB29393-YB29394	March 4, 2007	Viceroy
South Fr	Viceroy	YC01211	March 4, 2004	Viceroy
Park Fr	Viceroy	YC01212	March 4, 2004	Viceroy

1.5. Regional Exploration History

The McQuesten Project is located along the western margin of the Keno Hill Mining District, formerly a world class silver producing district. Keno City was built in the early 1900s, following the discovery of widespread abundant lead-zinc-silver veins. Considerable silver production occurred from the 1920s to 1940s, resulting in the construction of the town of Wernecke. UKHM was formed in 1946, and soon began major silver mining operations resulting in the construction of the towns of Elsa and Calumet, both now abandoned. UKHM, now partly controlled by NDU Resources, still retains mineral rights to crown grants and several quartz mining properties near the McQuesten Property, including the Snowdrift Claims just to the west.

Placer gold mining operations were established primarily along Duncan Creek, southeast of the property, and Haggart and Lynx Creeks north of the McQuesten River valley. Placer gold was first discovered at Dublin Gulch in 1898, leading to surface exploration resulting in the delineation of the Dublin Gulch Deposit by 1991. The discovery of auriferous skarn and replacement gold mineralization within the Wayne Property in 1981, the Aurex Property in 1993, and the Len Property by 1996, led to the delineation of a new target model in the camp for bulk tonnage gold mineralization.

1.6. Property History

The McQuesten Project was first staked as the WAYNE claim in 1955 by G. Rich. It was partially overstaked as the ALBERTA and YUKON claims in 1956, then optioned by Rio Plata Silver Mines Ltd. in 1962 which conducted bulldozer trenching and 76.2 metres of rotary drilling. The ALBERTA and YUKON claims were optioned in 1967 by Fort George Mining & Exploration which conducted bulldozer trenching, drilled 61 meters, and shipped 5.88 tonnes of silver concentrate to the Trail Smelter. The property was reoptioned by Silver Spring Mines Ltd. in 1970 which conducted geophysical surveying, trenching, and two drill holes in a joint venture with Canadian Reserve Oil and Gas Ltd. The focus of work was exploration for Keno Hill style silver veins.

460 000

470 000

McQuesten River

NORTH

ALLA QTZ CLAIMS
United Keno

SIN QTZ CLAIMS
Archer Cathro

KPO QTZ CLAIMS
United Keno

BUCONJO QTZ CLAIMS
United Keno

MINERAL LEASES
United Keno

CASE QTZ CLAIMS
United Keno

ORCHID QTZ CLAIMS
United Keno

LEO QTZ CLAIMS
United Keno

Flat

Ck

Galena Ck

MINERAL LEASES
United Keno
Hill Mines Ltd.

2

RAVEN QTZ CLAIMS

MINERAL LEASES
Ron Holway

JOHN QTZ CLAIMS
Ron Holway

McQUESTEN PROPERTY

Elsa Airstrip

SNOWDRIFT QTZ CLAIMS
United Keno Hill Mines Ltd.

AUREX
Yukon Revenue

NIS QTZ CLAIMS
Archer Cathro

Creek

Corkery

Creek

Williams Ck

DOLLAR
Jaroslav Ruza

7 080 000

Haldane

SILVER TRAIL

Field Creek

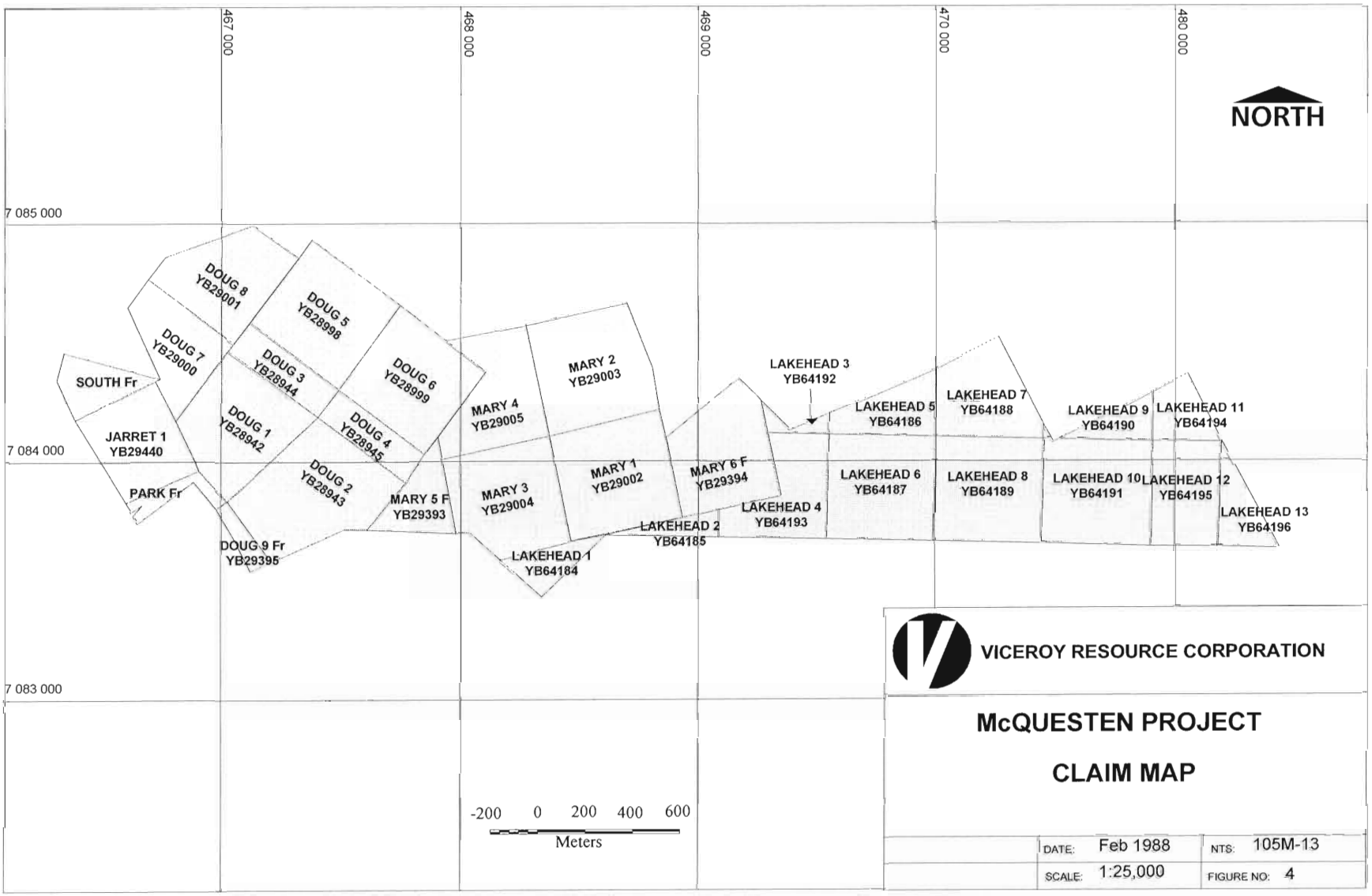
-500 0 500 1000 1500
Meters

VICEROY RESOURCE CORPORATION

McQUESTEN PROJECT, YUKON

REGIONAL LAND TENURE STATUS MAP

	DATE: Feb 1998	NTS: 105 M/13	
	SCALE: 1:50,000	FIGURE NO: 3	


467 000
468 000
469 000
470 000
480 000
NORTH
7 085 000
7 084 000
7 083 000
DOUG 8 YB29001
DOUG 5 YB28998
DOUG 7 YB29000
DOUG 3 YB28944
DOUG 6 YB28999
SOUTH Fr
JARRET 1 YB29440
DOUG 1 YB28942
DOUG 4 YB28945
DOUG 2 YB28943
PARK Fr
DOUG 9 Fr YB29395
MARY 5 F YB29393
MARY 4 YB29005
MARY 2 YB29003
MARY 3 YB29004
MARY 1 YB29002
MARY 6 F YB29394
LAKEHEAD 1 YB64184
LAKEHEAD 2 YB64185
LAKEHEAD 3 YB64192
LAKEHEAD 4 YB64193
LAKEHEAD 5 YB64186
LAKEHEAD 6 YB64187
LAKEHEAD 7 YB64188
LAKEHEAD 8 YB64189
LAKEHEAD 9 YB64190
LAKEHEAD 10 YB64191
LAKEHEAD 11 YB64194
LAKEHEAD 12 YB64195
LAKEHEAD 13 YB64196
-200 0 200 400 600
Meters
VICEROY RESOURCE CORPORATION
McQUESTEN PROJECT
CLAIM MAP
DATE: Feb 1988
NTS: 105M-13
SCALE: 1:25,000
FIGURE NO: 4

In 1980 the property was optioned to Island Mining and Exploration Co. Ltd, which drilled 14 diamond drill holes across a lead-zinc-silver vein showing in 1981. Several zones of significant auriferous skarn mineralization returning values to 3.41 gpt Au/ 6.9 metres and 1.81 gpt Au/ 12.7 metres were intersected, changing the focus of exploration to gold targets. Seven holes drilled in 1983 roughly 600 metres to the east encountered similar grades and mineral settings. The 1981 drilling was oriented at an oblique angle to stratigraphy; mineralized intersections are not indicative of true width. The 1983 drilling consisted of vertical holes.

In 1992, the property was restaked by Mr. Bernard Kreft of Whitehorse, Yukon. Mr. Kreft mined roughly 17 tons of limonitic pyrrhotite skarn material grading 1.29 oz/ton, and achieved a recovery rate of 98.3%. Hemlo optioned the property in 1995, added the LAKEHEAD 1-13 Claims and performed geologic, soil geochemical, ground magnetometer and HLEM electromagnetic surveys before returning the property in 1996. In 1997 the property was sold to EPR(50%) and MRG(50%) which drilled six diamond drill holes returning values to 3.2 gpt Au/ 21 metres. In October, 1997 an option agreement was signed allowing VIE to earn a 70% interest in the property in exchange for incurring exploration expenditures of $1,000,000 over four years, and payments of $35,000 to each of EPL and MRG. Mr. Kreft retains a 2% Net Smelter Return. The name was changed to the "McQuesten Project" following signing. VIE excavated nine trenches in October, 1997 and conducted three bottle roll tests on samples collected from the 1997 RC drill samples. In 1998 VIE transferred 100% of its interest in the property to Viceroy Exploration (Canada) Inc. (VEC).

1.6.1 Adjacent Claims

In 1974 and 1975 UKHM staked the adjoining SNOWDRIFT Claims to the west, drilled 80 percussion holed in 1976, 46 holes in 1982, and 3658 metres of percussion drilling and 4 diamond drill holes in 1984. Reports remain confidential; however, assays of up to 1.5% WO_3 and 34.3 gpt Au were returned from pyrrhotite skarn. The property is still held by UKHM. The AUREX Claims adjoining the Wayne to the south were staked in 1992 - 93 (Figure 3). Values to 7.89 gpt Au/ 6.1 metres were returned from reverse circulation drilling.

1.7 1998 VEC Work Program

The 1998 work program consisted of re-logging and assaying unsampled available 1981 drill core, extensive mechanized trenching, and induced polarization (IP) and ground magnetometer surveys. A total of 26 trenches totalling 3279 metres were excavated (Appendix 8). The area explored by trenches T9801-T9826 is called the "work area".

A total of 4.8 line kilometres of IP survey was conducted over the West and East Zones (Appendix 7). A total of 5.15 line kilometres of magnetic survey was completed using a Sharpe MF1 flux gate magnetometer. This survey was conducted to fill some gaps in Hemlo's 1995 survey along the southern portion of the property (Appendix 9).

The first ten trenches traced the granite dyke eastward from the West Zone for 700 metres. During the third trenching phase, trenches T9824 and T9825 were excavated to test the extension of a "high" grade gold zone at the intersection of the granite dyke and a limestone bed in trench T9810.

Trenches T9812 through T9821 trace a zone of structural disturbance, retrograde skarn mineralization, sericite alteration, and anomalous gold results from the West Zone through to the East Zone. Trench T9814 in the East Zone was excavated east-west along a skarn altered limestone horizon for over 100 metres. Trenches T9822, T9823 and T9826 tested potential strike extension of mineralization east of the East Zone.

Surveying of several original claim posts belonging to the Wayne Property and adjacent Alberta and Snowdrift Claims revealed two areas of open ground to the north and south of the Jarret Claim. These were staked as the South Fr. and Park Fr. claims (figure 3).

Expenditures in 1998 totalled CDN$354,338.

1.7.1 Sample Preparation

All samples were shipped and analysed by Chemex Labs of North Vancouver, British Columbia, and subject to 30g fire assay for gold with an atomic absorption finish. Select samples based on geologic prospectivity were also analysed by 32M element ICP scan; select samples also underwent whole rock analysis. Mercury was analysed using a 10 ppb detection limit. Rejects are retained by Chemex Labs for one year.

1.7.2 Personnel

The following personnel were involved with the 1998 project:

Doug Brownlee	Project Manager
Myra Schatten	Geologist
Anna Fonseca	Geologist
Serguei Soloviev	Geologist
Bruce Bark	Senior Technician
Kris Carruthers	Technician
Dylan Vaillancourt	Technician
Rob Bremner	Technician
Jeff Boyce	Technician
Ryan McGregor	Technician
Joanne Aird	Technician

Amerok Geosciences Ltd. of Whitehorse conducted the 1998 induced polarization survey. Ewing Transport Ltd. of Mayo provided trenching services.

Details of historical drilling, historical and present trenching, surveying, rose diagrams, etc. are available within digital databases available at the VEC Whitehorse and Vancouver offices. Programs used are Microsoft Excel Version 7.1, and Paradox. Assay certificates are compiled in Appendix 3. Detailed hand drafted trench profiles including geology and sample intervals are stored at the VEC office in Whitehorse.

Hand drafted strip logs are available at the Whitehorse Office and can be copied upon request.

CHAPTER TWO: GEOLOGY

2.1 Regional Geology

The Keno Hill Mining District is located within Selwyn Basin stratigraphy, composed primarily of shallow marine shelf and off-shelf sediments derived from the ancient North American Platform. Strata were deposited from Late Precambrian to Permian time, with accelerated deposition coinciding with periods of continental uplift creating specific stratigraphic groups.

The western part of the Keno Hill area occurs along the south flank of the east-west extending McQuesten Antiform underlying the McQuesten River valley. The McQuesten Property itself is underlain by a thick sequence of Late Precambrian to Early Cambrian Hyland Group (PrCh) phyllite, calcareous phyllite and limestone, historically called the "Upper Schists". This has been thrust over Mississippian "Keno Hill Quartzite" to the north along the moderately south dipping Robert Service Thrust Fault (Figure 5). The Keno Hill Quartzite, comprised of thick bedded grey to blue quartzite with minor dark grey phyllite and calcareous sandstone, hosts most of the fault and fracture controlled lead-zinc-silver veining within the Keno camp. The quartzites themselves overlie Devonian to Mississippian Earn Group felsic metavolcanics, phyllites and carbonaceous sandstone, historically called the "Lower Schists". Small podiform resistant units of metadiorite and metagabbro occur north of the Robert Service Thrust within Keno Hill Quartzite and Earn Group phyllite. This sequence is repeated along the north limb of the antiform north of the valley, with the Robert Service Thrust having a gentle north dip. Two east-west trending reverse faults (footwall to the south) are inferred to parallel the antiformal axis within the valley. Several NNW trending dextral faults, part of a regional scale tectonic regime, occur south of the valley.

The entire package has been deformed by the Tombstone Strain Zone (dated at 142 +/- 6 Ma, K-Ar dating) of the underlying, non-exposed Tombstone Thrust. This laterally extensive zone, several kilometres thick, consists of highly deformed rock extending upward from the Tombstone Thrust through Earn Group sediments and Keno Hill Quartzite into Yusezyu Formation sediments along the hanging wall of the Robert Service Thrust Fault. Rock within this strain zone is typically well foliated and lineated, with a lenticular rather than bedded fabric, asymmetric boudinage features, isoclinal folding, and a slight increase in metamorphic grade. The Tombstone Strain Zone has caused the surface trace of the Robert Service Thrust to be repeated several times in the region either through isoclinal folding or fault imbrication.

Paleozoic stratigraphy has been intruded by stocks, plutons, and dykes of the Mid-Cretaceous Tombstone Suite (Kqm). Composition of this roughly 91 million year old suite varies from granite to quartz biotite monzonite; with minor aplitic dykes. These stocks underlie much of Mt. Haldane to the west, and have been interpreted to underlie parts of the Aurex Property to the south. The Dublin Gulch Deposit, a Fort Knox style deposit containing minable reserves of 50.4 million tonnes at 0.93 gpt is hosted by a granodiorite stock. These intrusives are interpreted to control hydrothermal and magmatic mineralization within the Selwyn Basin.

2.2 Property Geology

The McQuesten Property occurs within the Tombstone Strain Zone and is primarily underlain by the metaclastics of the Yusezyu Formation of the Late Proterozoic Hyland Group thrust over Mississippian Keno Hill Quartzite along the Robert Service Thrust (Gordey and Anderson, 1993). The strain zone extends from the unexposed underlying Early Cretaceous Tombstone Thrust upwards through the Late Jurassic Robert Service Thrust into the obducted Yusezyu sediments. It has resulted in a pervasive east-west trending foliation, dipping to the south somewhat more steeply than bedding. Early Cretaceous movement along the Tombstone Thrust is felt to have caused imbrication of the Robert Service Thrust and overlying Yusezyu Formation stratigraphy. A mid-Cretaceous Tombstone Suite mineralized altered quartz-monzonite dyke extends at roughly 070° across the west-central portion of the property. Minor similar subparallel dykes occur within this area.

The Yusezyu Formation is comprised mostly of meta-phyllite with abundant chlorite-muscovite schist, and lesser meta-sandstone, calcareous phyllite and impure limestone, the latter occurring within the West and East Zones and along the Aurex Property border. The West and East Zones are underlain by a thick sequence of interbedded limestone, calcareous phyllite, non-calcareous phyllite and schist. This suggests a shallow marine depositional environment, possibly with rapidly alternating clastic and carbonate depositional events.

It was decided to re-map all the trenches (TR9701 through TR9821, except for several caved-in 1997 trenches) to utilize property knowledge gained to date to improve correlation of lithological units, structural features and mineralized zones. An attempt was made to establish potential marker horizons and to determine groupings of certain lithologies to improve understanding of the complex structural setting. The following geological interpretation of the Yusezyu Formation and the accompanying detailed geology map (see Appendix 11) is largely based on these results (Table 3). The lithological units broadly match those mapped and recorded in the trench lithology logs.

2.2.1 Stratigraphy

The following is a brief description of the lithological units within the property, and illustrated on the detailed plan geological map (Appendix 11, Table 3).

2.2.1.1 Yusezyu Formation, Hyland Group (PrCh)

The following five members have been identified within the Yusezyu Formation:

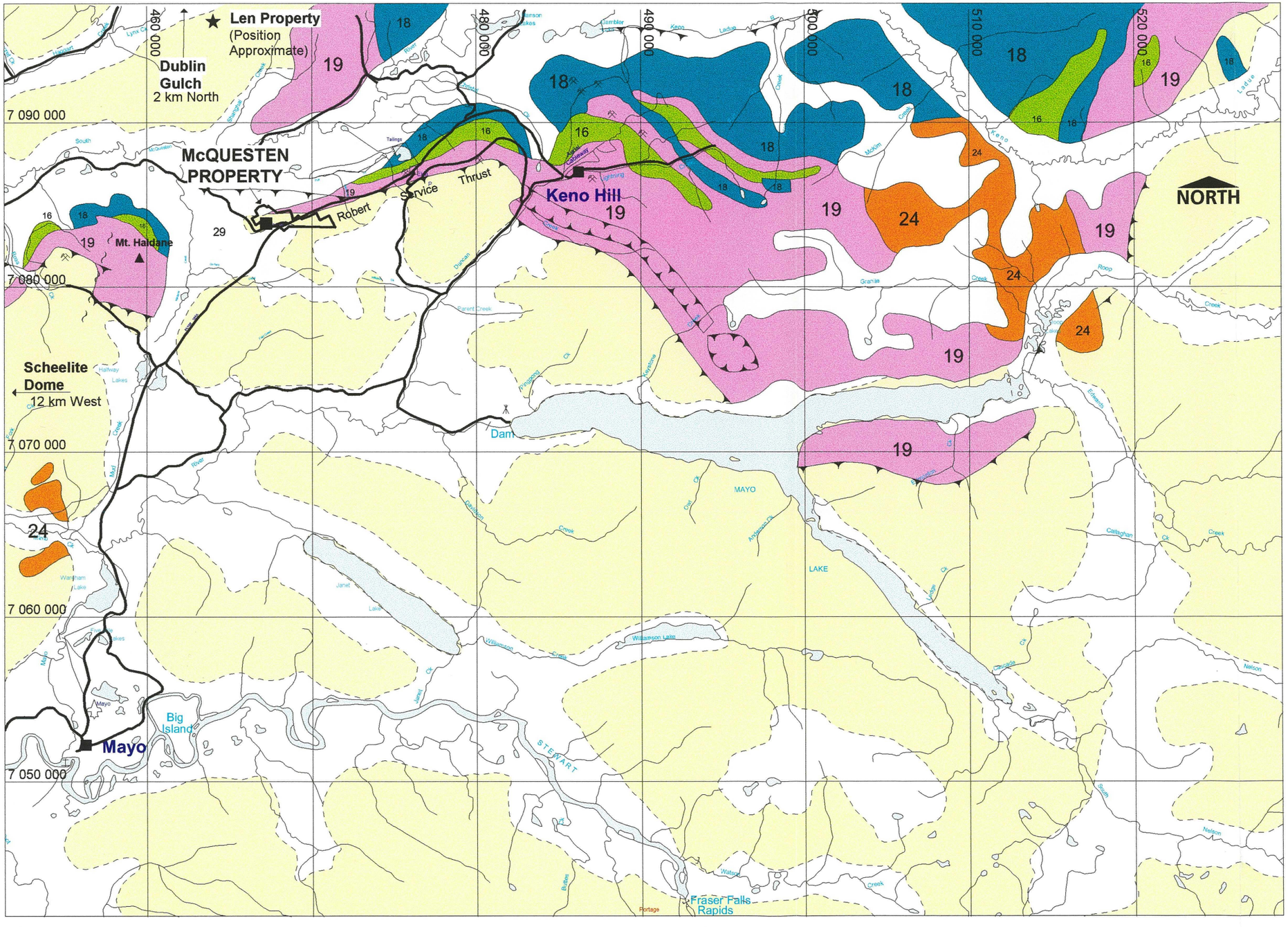
EQZT
This member consists of blue-grey quartzite distinguishable from other quartzite units by the presence of 10-30% clear grey subrounded quartz crystals 2-4 mm in diameter. Fabric varies from poorly developed to strongly foliated phyllitic to schistose texture. Beds range in thickness from millimetre scale to 1.0 metres. This member occurs largely in the western portion of the project.

SQZT
This consists of pale to medium grey, sometimes buff coloured phyllitic to semi-massive quartzite. The phyllitic member typically has a striped appearance resulting from quartz bands 0.5 to several centimetres thick encompassed by dark grey pelitic material, sometimes weakly pelitic. The member is generally non-calcareous and rarely mineralized. Contacts with the MQST unit, especially the pelitic member, are often gradational.

GQZT
This member consists of dark grey to black well foliated and lineated graphitic quartzite and graphitic schist, with occasional rusty weathering on joint surfaces. Graphitic quartzite is composed of fine, millimetre scale quartz layers enclosed by graphite. Graphitic schist has a more pelitic origin. Schistose partings are often less than 2 mm apart, with common bull white quartz "sweats". The unit is believed to have a partial structural origin, with variably sharp to gradational contacts.

A dark grey to black sheared and intensely foliated graphitic schist labelled "GFLT" is believed to be a surface expression of a thrust fault or ramp, generally separating the Yusezyu Formation from underlying Keno Hill Quartzite. Bull white ribbon quartz veinlets are common. This unit occurs as semi-competent rock with gouge zones up to 1.0 metre wide. Surface contacts tend to be steeper than those between other members of the Yusezyu Formation.

MQST
This unit consists of intercalated well foliated buff to medium grey phyllitic quartzite, with schistose partings spaced several centimetres apart, and buff to tan coloured sericite schist with partings of several millimetres. The quartzite sub-member consists of narrow quartz rich bands enclosed by pelitic material.



GEOLOGICAL LEGEND

CENOZOIC

Quaternary

26 — Unconsolidated glacial till, alluvium, stream deposits

MESOZOIC

Cretaceous

24 — Biotite granite, biotite quartz monzonite, syenite (predominantly Tombstone Suite)

PALEOZOIC

Permian

22 — Chert, cherty limestone, limestone (Takhandit Formation)

21 — Shale, thin bedded, brown siltstone, commonly limy (previously mapped as Cretaceous, probable older

Upper Pennsylvanian to Permian

"27" — basalt flows, tuffs, slate, phyllite: minor limestone, chert, carbonaceous shale.

Carboniferous to Permian

20 — Thin bedded limestone, minor black shale, chert chert pebble conglomerate

Mississippian ?

19 — Keno Hill quartzite: Massive quartzite, minor slate phyllite, argillaceous quartzite

Devonian

18 — "Lower Schist", dark grey argillite, slate, phyllite commonly graphitic; minor phyllite, limy quartzite (probably Earn Group equivalent)

17 — EARN GROUP: Black shale, argillite, slate, black platy limestone, chert, quartzite, chert-pebble conglomerate (latter shown as circles)

16 — Felsic metavolcanics, quartz porphyry (part of lower schist?)

15 — Black platy limestone, commonly argillaceous, locally siliceous, interbedded chert

14 — Limestone, dark grey to brown, black, massive to thin bedded

13 — Limestone, dolomite: light grey to dark brownish grey

Ordovician - Silurian

12 — ROAD RIVER FORMATION: Interbedded black chert and argillit, minor quartzite, chert pebble conglomerate Steele Formation (siltstone) locally noted

RABBITKETTLE FORMATION

11 — Dolomite and limestone, minor blck platy argillaceous limestone and dolomite

10 — Varicoloured slate

9 — Quartzite, slate, phyllite, limestone

LATE PRECAMBRIAN - EARLY CAMBRIAN

HYLAND GROUP: phyllite, lesser calcareous phyllite, limestone, quartzite

VICEROY RESOURCE CORPORATION

McQUESTEN PROJECT, YUKON

REGIONAL GEOLOGY MAP

-2 0 2 4 6

Kilometres

	DATE: Feb 1998	NTS: 105 M/13
	SCALE: 1:250,000	FIGURE NO: 5

TABLE 2: STRATIGRAPHIC COLUMN; McQUESTEN PROJECT, YUKON

Age	Group	Formation	Geology Map Designation	Rock Code	Description
Mid-Cretaceous (91 Ma)	Tombstone Plutonic Suite	Quartz Monzonite (Aplite)	Kqm	QM GRNT	Quartz Monzonite High level quartz monzonitic sills, aplitic, previously described as "Rhyolite". Moderate - strong argillic, phyllic and carbonate alteration. Weak fine grained, locally coarse grained pyrite, weakly limonitic. 1-5% quartz porphyries, lesser feldspar porphyries, 1-5 % disseminated pyrrhotite, minor arsenopyrite, pyrite.
Mississippian	Keno Hill Quartzite		MK	QZTE QTZT	Keno Hill Quartzite Thick bedded to nearly massive, brittle, grey to grey-blue quartzite, minor interbedded calcareous sandstone and phyllite and quartzitic phyllite. Local white quartz stockwork.
Late Precambrian-Early Cambrian	Hyland group	Yusezyu Formation	PrCh	EQZT, SQZT QZTE	Quartzite Blue-grey quartzite distinguishable from MK due to 10-30% clear blue-grey quartz crystals. Poorly to well developed foliation. SQZT consists of blue grey phyllite to semi-massive quartzite, often with striped fabric due to inter-layered pelitic material and quartzite. Generally non-calcareous and unmineralized.
Late Precambrian-Early Cambrian	Hyland group	Yusezyu Formation	PrCh	GQZT, GFLT	Graphitic Schist, Graphitic Quartzite Dark grey to black well foliated and lineated graphitic quartzite and graphitic schist. Common bull quartz "sweats". Unit is believed to have partial structural origin. GFLT consists of intensely foliated graphitic schist, with gouge zones to 1.0m in width. It is believed to be the surface expression of thrust fault or "detachment zone".
Late Precambrian-Early Cambrian	Hyland Group	Yusezyu Formation	PrCh	MQST, LMST	Calcareous Phyllite, Limestone Intercalated well foliated buff to medium grey phyllitic quartzite and buff to tan coloured sericitic schist. Variably calcareous, increasing towards limestone units. Mineraliza-tion, where present, consists of disseminated to banded pyrrhotite, with minor chalcopyrite and arsenopyrite. LMST: medium to dark grey, locally light grey to buff meta-limestone, including silty limestone. Contacts usually sharp, frequently "skarned".
Late Precambrian-Early Cambrian	Hyland Group	Yusezyu Formation	PrCh	SKARN, LMSK, SKMQ	Calc-silicate altered Limestone, Calcareous Phyllite Largely mineralized, calc-silicate altered MQST, LMST. SKARN contains chlorite, actinolite, siderite, calcite, epidote, locally siliceous. Variably mineralized, trace -3% disseminated to banded pyrrhotite, trace arsenopyrite and chalcopyrite. Mineralized layers range from several centimetre's to several metres wide. SKMQ: Intercalated sericite schist, phyllitic quartzite, "skarn", and meta-limestone. LMSK: Intercalated meta-limestone and "skarn".

The unit is variably calcareous; carbonate content increases with proximity to meta-limestone horizons. Mineralization occurs as disseminated pyrrhotite, pyrite, and arsenopyrite on foliation planes and as fine disseminations and blebs within calcareous quartz rich layers. Sericite alteration may occur within structurally deformed zones. Minor interbeds of semi-massive quartzite may be present.

LMST
This consists of medium to dark grey, occasionally pale grey to buff meta-limestone, with common white bands 2-10 millimetres wide. This unit includes silty limestone, and has a variably recrystallized sugary texture. Margins often have undergone skarn alteration, with pyrrhotite. Contacts generally consist of sharp, orange limonitic fault gouge zones several centimetres wide.

Parts of the LMST and, to a lesser extent, the MQST have undergone variable calc-silicate alteration, and have largely been mapped as "SKARN". This consists of dark rusty brown weathering pale to medium green and green-grey calc-silicate altered silty meta-limestone, calcareous phyllitic quartzite, meta-limestone, and minor calcareous sericitic schist. Calc-silicate minerals in these commonly silicified zones include, in order of abundance: chlorite, amphibole (largely actinolite), siderite, calcite and epidote. These zones are variably mineralized with trace to 3% disseminated and bleb pyrrhotite with localized trace disseminated arsenopyrite, pyrite and chalcopyrite. These altered units range from several centimetres to several metres in width, and are commonly intercalated with MQST and LMST.

The abbreviation "LMSK" represents a composite unit of intercalated meta-limestone and "skarn". "SKMQ" represents a composite unit of intercalated sericite schist, phyllitic quartzite, lesser "skarn" and minor meta-limestone.

2.2.1.2 Keno Hill Quartzite (MK - QTZT)

A medium-grey to blue-grey semi-massive to massive quartzite unit intercalated with blue-grey phyllitic quartzite underlying much of the northern portion of the work area has been identified as a member of the Keno Hill Quartzite. White quartz stockwork zones occur locally.

2.2.2 Tombstone Intrusive Rocks (Kqm - GRNT)

The major Tombstone Suite altered quartz monzonite dyke is typically fine to medium grained and is buff-white with rusty weathering. Quartz-feldspar porphyritic zones are common, with 1-5% subrounded to rounded clear quartz phenocrysts up to five millimeters wide and subhedral white plagioclase crystals to three millimetres wide. The moderately calcareous matrix consists primarily of quartz and feldspar, with rare mafic minerals. Sulphide content typically ranges from 1-5%, consisting of pyrrhotite, arsenopyrite and pyrite that is locally completely oxidized. Intense surface agrillic alteration occurs locally. There are local areas of well developed foliation with a similar orientation to sediment hosted foliation. On surface, the dike extends along stratigraphy in some areas, and crosscuts it at a slight angle in other areas.

2.2.3 Structural Geology

Stratigraphy underlying the western part of the property extends roughly parallel to the trace of the McQuesten Antiform at about 110 degrees, with dips ranging from 30 - 50 degrees to the south-southwest. To the east, stratigraphy undergoes a broad curve to the north, averaging 70 degrees with similar dip angles. Well pronounced foliation is subparallel to bedding, although measurements taken northeast of the Lakehead Claims show an average strike of 50 degrees. Bedding and foliation caused by the Tombstone Thrust become strongly disrupted near NNW trending faults.

The Robert Service Thrust, obducting the Yusezyu Formation over the Keno Hill Quartzite, has caused imbrication of the overlying sediments, resulting in a compressional setting. The imbrication is reflected by the lenticular shape of blocks consisting of several lithological members, with an attitude of 100°/-44° S. The blocks are 20-40 metres wide on surface, comprised of several individual members less than 10 metres wide, and are up to several hundred meters long. The individual blocks are bounded by graphitic quartzite units interpreted as splays or "detachment zones" related to the Robert Service Thrust. East-west extending terraces north of the West and East Zones, and underlying northern parts of the Aurex Property are interpreted as being controlled by splays of the Robert Service Thrust extending upwards from the main thrust plane into the Hyland Group sediments. Local metre-scale isoclinal faulting occur along these zones. Minor faulting extends subparallel to the trend with an average strike of 085 to 090 degrees and dipping at 50 degrees to the south.

Two major shear fabrics have been identified, suggesting the following chronology:

1) The earlier trend oriented at 90° to 110° was emplaced largely across the southern half of the property. It is reflected by the geomorphology of the area, notably several east-southeast trending gullies extending from the West Zone to T9826.

2) This was followed by a more pervasive trend oriented at 075° to 090° overprinting the ESE trend, which extends across the property. This may be a result of the Tombstone Strain Zone, reflected in the main foliation trend averaging 085° and dipping 45° to 50° to the south. It also reflects the main trend, averaging 070°, of mineralized veins and faults of the Keno Hill Mining District. The most prominent joint orientation (196° /- 88°) also appears to be related to this event.

3) This was followed by emplacement of the main dyke. Although the dyke normally trends at roughly 070° it locally trends at 100° to 110°, suggesting emplacement was variably influenced by both major structural trends.

4) A prominent ESE (110°) shear fabric crosscuts the dykes, suggesting later reactivation along the shear fabric outlined in 1.

2.2.3.1 NNW Trending Tectonic Faults

Several NNW trending faults have been identified in the Keno Hill District. These typically display a dextral offset ranging from 0.3 to 2.0 kilometres, although less abundant faulting with sinistral offsetting have been noted (Hunt and Murphy, 1996). These are probably normal or reverse extensional faults, possibly resulting from a tectonic episode related to, and probably preceding emplacement of the Tombstone Suite. The north-northwest trending Thompson Creek Fault east of T9826, and at least two north-northwest striking steeply west dipping faults are likely part of this fault regime. The latter host sphalerite - galena veins with manganese staining, and were the original exploration targets of the Wayne Property.

Although not confirmed in the field, it seems likely that tectonic reactivation has occurred along the east-west trending splay faults. This would result in extensional settings along the splays, providing space for dike emplacement.

CHAPTER THREE: MINERALIZATION

3.1 Introduction

Four mineralized settings occur within the property: 1) sediment hosted retrograde skarn style gold mineralization, 2) intrusive hosted gold mineralization, 3) late stage Keno Hill style silver-lead-zinc veins, and 4) quartz-arsenopyrite veins. Typical distal retrograde skarn mineralization within calcareous Hyland Group sediments underlying the McQuesten Project appears to be widespread and stratabound. It is similar to assemblages occurring within the Aurex Property to the south, and the Len Property along the north flank of the McQuesten Antiform. Intrusive hosted mineralization occurs mainly in the major dyke within the West Zone. Polymetallic veins occur within the "original" Wayne showing, and as minor veins across the property. Minor quartz-arsenopyrite veins occur to the east of the Thompson Creek Fault and proximal to minor polymetallic veins.

At least two gold mineralizing events have been interpreted based on pathfinder mineral content: an earlier event associated with the retrograde calc-silicate alteration within sediments; and a later event responsible for intrusive hosted mineralization and subsequent Keno Hill style vein emplacement.

Two zones, the West and East Zones, were the primary focus of the 1998 program, and were the target of earlier surface sampling, trenching, and drilling. Retrograde skarn mineralization also occurs within the Southeast Occurrence, 2.4 kilometres east of the West Zone, probably an extension of the main mineralized trend within the zones. A minor occurrence located 200 metres south of the East Zone called the Dublin Gulch Road Occurrence, indicates that several parallel strataform mineralized horizons exist, possibly associated with thrust splays. The West and East Zones represent the stratigraphically lowest mineralized horizons recognised to date. Terracing within the adjoining Aurex Property to the south suggests a continuation of this sequence onto the property.

3.2 Alteration and Mineralization

Pervasive sericitic alteration has occurred across all rock types except meta-limestone, and is only weakly developed in the Keno Hill Quartzite. It consists of fine grained white mica and chlorite and has been intensified by the Tombstone Strain Zone. This alteration is interpreted to result from lower greenschist facies regional metamorphism rather than from hydrothermal activity, as whole rock analysis does not show total depletion of sodium, magnesium and calcium. It is also associated with late stage lead-zinc-silver vein fault mineralization seen in trenching.

Intrusive and sediment hosted mineralization can be differentiated by strikingly different correlation coefficients of select pathfinder elements (Table 3).

3.2.1 Sediment Hosted Calc-Silicate Alteration and Mineralization

Weakly to moderately developed calc-silicate alteration along foliation planes, joints, contacts and faults, with lesser pervasive alteration, occurs in most calcareous members and margins of limestone beds within the Yusezyu Formation. The abundance of calcareous sediments results in alteration zones up to 80 metres wide on surface. This alteration is similar to the classic retrograde distal skarn alteration, with epidote, actinolite, chlorite and actinolite being the most common minerals. In the West Zone, this alteration, associated with pyrrhotite, is much more strongly developed near dykes and fault zones. Calc-silicate alteration is associated with weak to moderate pervasive limonitic staining within Yusezyu Formation sediments; very weak limonite staining occurs within the Keno Hill Quartzite.

Calc-silicate alteration is typically associated with pyrrhotite, minor chalcopyrite, sphalerite and pyrite. Mineralization is primarily in sulphide form, with limonite and oxide minerals being a function of surface

weathering. Gold is associated with amphibolite, actinolite, pyrrhotite and fracture coating iron oxide content, and shows a weak correlation with calcium. Gold content is inversely proportional to chlorite development. It apparently occurs as fairly coarse free particles, and can be panned from limonitic material and is recoverable from bottle roll testing of unoxidized sulphide material at depth. Meinert, in a 1989 University of Washington paper, stated that gold in the Hedley Skarn District of British Columbia occurs as free particles associated with pyrrhotite, native bismuth, and hedleyite (Meinert, 1989). Intensity of alteration and mineralization is dependent upon original carbonate content which is highly variable from bed to bed. Thus, strongly mineralized zones may contact with unaltered phyllite. Mineralization is stratabound within individual beds or narrow reactive horizons ranging from 0.25 metres to more than 10 metres in width. Very fine beds less than 1.0 mm thick show strong alteration and mineralization, and may be strongly auriferous.

The correlation coefficients for pathfinder elements within samples of phyllitic quartzite to sericite schist (MQZT) show a strong correlation with bismuth and tungsten (Table 3). This suggests the source of mineralized fluids is a somewhat distal buried member of the Tombstone Suite. The possibility exists for prograde, higher temperature mineralization to occur at depth.

Table 3: Correlation Coefficients for "GRNT" and "MQZT"

Element	"GRNT"	"MQZT"
As	0.78	0.14
Bi	0.55	0.96
Cd	.071	0.51
Pb	.074	0.34
Mn	0.52	0.24
Ag	0.84	0.41
W	0	0.66
No. of Samples	103	634
Au (ppb)		
Median	110	40
Maximum	>10000	8800
Minimum	2.5	2
Standard Deviation	1262	633

3.2.2 Intrusive Hosted Alteration and Mineralization

The quartz monzonite dykes host disseminated irregular patches and aggregates of pyrrhotite having a silvery-bronze colour. Pyrrhotite grains average from 0.1 to 0.3 mm in length, associated with very rare grains of chalcopyrite. Gold content appears to decrease with increasing pyrrhotite, but appears directly proportional to carbonate content. Arsenopyrite occurs only as narrow fracture controlled veinlets and as very proximal disseminated grains within host rock. Gold content increases where structural preparation, mainly folding and faulting, have occurred. Pathfinder element correlation coefficients show a strong relationship of gold with arsenic, lead, silver, cadmium and manganese (Table 3), related to early en-echelon and stockwork quartz-arsenopyrite +/- gold vein faults of the Keno Hill camp, present in T9824. This was followed by emplacement of more "typical" Keno Hill style silver-lead zinc veins.

3.2.3 Keno Hill Veins

The Keno Hill style vein and fault mineralization within the West Zone and T9824 consists of galena, sphalerite, silver +/- siderite, quartz, arsenopyrite and gold. These north-northwest trending faults are related to regionally occurring "transverse faults" (Roots, 1997). Trenches T9701 and T9811 intersect numerous small vein faults and joints infilled with yellow-brown sphalerite, minor fine grained galena, siderite +/- quartz, with minor pyrite and pyrrhotite, and manganese and moderate iron oxide coatings.

Host rocks have been extensively sericitized. The east-northeast trending, south dipping vein fault in T9824 occurs as a 2 cm wide graphitic rich gouge zone within Keno Hill Quartzite. This is associated with coarse galena extending up to 0.5 metres into the footwall, and a small quartz-arsenopyrite veinlet. This suggests such mineralization is more common than previously recognised.

Manganese staining is useful for delineating associated lead-zinc-silver vein faults. Argillic alteration of quartz monzonite appears to be caused by surface weathering. Thin section analysis of the dykes show alteration is restricted to sericite and carbonate rimming the quartz and feldspar grains. Minor quartz veins occur within dykes and sediments.

3.2.4 Quartz-Arsenopyrite Veins

A small quartz-arsenopyrite vein roughly 100 metres east of the Thompson Creek Fault returned values to 10.0 gpt Au. This is not considered to have significant exploration potential, and no other similar occurrences have been noted to date. The spatial relationship to the fault is uncertain.

3.2.5 Zonation

A district scale mineral zonation ranging from proximal tungsten, copper, and molybdenum assemblages, through gold, and bismuth enriched assemblages to lead, zinc, silver assemblages with minor gold, the latter often as polymetallic veins (Theodore, Orris, Hammarstrom and Bliss, 1991). This is exemplified in the Mayo area by tungsten-copper-gold skarn mineralization at Scheelite Dome west of the McQuesten, retrograde gold-bismuth-pyrrhotite assemblages west of Elsa, and underlying the McQuesten Property, and Keno Hill style polymetallic veins centred at Keno City. The heat source may be the large stocks underlying the area near and west of Scheelite Dome. Zonation regimes related to intrusive sources located elsewhere in the Keno Hill District are also possible.

3.3 Mineralization and Structure

The Robert Service Thrust and related detachment zones appears to be the main structural control for mineralization within the McQuesten Project. Thrust faults and related splays provide abundant permeable planes for hydrothermal fluid movement. Retrograde skarn mineralization is best developed in, and usually closely associated with, zones of structural preparation and resultant increased pore space and permeability. These structurally disturbed zones are visible within trenches and drill core, and cannot readily be discerned on surface. The east-west trending dykes extending slightly oblique to stratigraphy probably follow zones of weakness controlled by both major structural events described earlier. There may have been an extensional event established subparallel to the surface trace of the splays, resulting in an extensional setting amenable to dyke emplacement. Mineral emplacement is stratabound at outcrop scale; thus, emplacement settings are also stratigraphically controlled by permeability and reactivity of individual beds and small members.

The West and East Zones are roughly bounded by fairly broad graphitic quartzite and graphitic schist members. A narrow unit of black sheared and intensely foliated graphitic schist may delineate the surface trace of a splay fault. Similar graphitic zones occur within T9826. These zones, usually associated with a strong induced polarization chargeability response, may represent bounding structural features controlling mineralization, and may be used as marker horizons.

The NNW trending extensional faults may act as conduits for fluid movement. Minor quartz-arsenopyrite and stibnite veining occurs along the Thompson Creek Fault, suggesting the possibility of gold enrichment along these younger faults. However, similar faults within the Keno Hill Mining District are largely barren, and may post-date the polymetallic mineralizing event.

3.4 Geophysics

Three geophysical surveys have been conducted across the McQuesten: a magnetic and VLF-EM survey conducted in 1995 by Hemlo; and induced polarization and magnetometer surveys conducted by VEC in 1998. The 1998 surveys are described below; refer to the 1997 McQuesten Progress Report for descriptions of the Hemlo surveys.

An airborne magnetometer survey commissioned by Hemlo in 1995 revealed that the property lies along the north flank of a strong magnetic "high" anomaly extending from just east of Mt. Haldane to the east property boundary, a distance of over nine kilometres.

3.4.1 1998 Magnetometer Survey

A 5.15 line kilometre magnetometer survey was conducted along grid lines between and including L100+00 and 116+00E, south of BL 100+00N in order to fill in gaps from the 1995 Hemlo survey. This survey used a Sharpe MF1 fluxgate magnetometer, with readings recorded in gammas. The new data was reduced and plotted with the Hemlo data. Results of the 1998 survey corresponded well to the 1995 data, showing a bimodal anomaly 50 to 100 metres wide extending eastwards from the West Zone to beyond T9826 within the Southeast Occurrence (Appendix 9).

3.4.2 1998 IP Survey

In June, 1998, an induced polarization survey was commissioned by VEC to identify potentially auriferous sulphide rich zones across the West and East Zones. A total of 4.8 line kilometres were surveyed, both along existing north-south trending grid lines and along east-west trending lines across the work area to test for mineralization along north-northwest trending structures.

At the McQuesten Project, induced polarization surveying is highly effective at delineating both graphitic horizons and sulphide rich silicic or calcareous horizons. High chargeability anomalies are associated with both sulphide rich and graphitic horizons. Low resistivity anomalies are typical of high sulphide concentrations, clay altered zones and graphitic zones. Silica or potassic enriched zones, commonly associated with sulphide mineralization, result in somewhat higher apparent resistivities. Thus, at the property, sulphide mineralization is associated with weakly elevated apparent resistivities, whereas graphitic zones are associated with strong resistivity low anomalies. Permafrost may be recognised by shallow (N=1) chargeability low and resistivity high anomalies.

The following conclusions can be made from the survey (Gooliaff, 1998):

a. At roughly 9925N, an east-west striking contact separates graphitic rocks to the north from calcareous, less graphitic rock to the south.

b. A promising target extending roughly east-west centered at 9700N extends from 9700E to 9900E and is likely open to the east. The anomaly, interpreted to dip moderately to the south, correlates strongly with known mineralization in the area. This target is roughly 25 metres wide, with depth to the top estimated at 25 metres. Chargeability and resistivity signatures are consistent with those expected across sulphide rich silicic or calcareous auriferous host rocks (Gooliaff, 1998).

c. A south-east trending fault, likely the extension of the fault hosting the Wayne vein, may occur across the West Zone. Dextral movement along this may have caused an offset of calcareous members to the south-east. Thus, the anomaly along 9700N to the east may be an offset of known mineralization west of the fault.

Trenching, followed by drilling of the anomaly at 9700N, which is just south of the trenched area of the East Zone, is recommended. Detailed geological mapping, prospecting and geochemical surveying is recommended to test the presence of the fault and resultant dextral offset of stratigraphy. A detailed report can be found in Appendix 7.

3.5 Results of Bottle Roll Testing

Bottle roll tests were conducted on the following three samples of 1997 RC core: 97-2 (106-116 feet); 97-3 (60-70 feet) and 97-6 (293-303 feet). Sample 97-2 was taken from weakly limonitic, strongly calcareous and weakly siliceous quartzite and gritty greywacke with trace moderately oxidized pyrite and 2% pyrrhotite. Recovery was 62.73% after 72 hours, increasing by 3.1% over 24 hours. Sample 97-3 was taken from weakly calcareous, siliceous and limonitic skarn with 15% pyrrhotite and trace strongly oxidized pyrite. Recovery was 56.04% after 72 hours, increasing by 3.1% over 24 hours. Sample 97-6 was taken from moderately to strongly calcareous, moderately silicified phyllite with 1% weakly oxidized pyrite and 3% pyrrhotite. Recovery was 75.09% after 72 hours, increasing by 9.2% over 24 hours.

These encouraging results suggest that gold occurs as free particles, obtainable by cyanide extraction from sulphide ore. The strong correlation with pyrrhotite suggests gold may be nucleating on pyrrhotite grains. Thus, heap leaching extraction techniques may be feasible.

3.6 Petrographic Study

A total of eleven samples were collected for petrographic analysis at the end of the first phase of trenching. A representative selection of rock types, alteration and mineralized settings across the property was selected as well as one sample of a mineralized dyke from the Scheelite Dome Property for comparative purposes. These were shipped to the Cominco Ltd. Exploration Research Laboratory in Vancouver for polished thin section study, then forwarded to Chemex labs for 32 element ICP and whole rock analysis.

Results show that all samples have undergone variable shearing and foliation development, as well as mid to upper greenschist regional metamorphism. . Alteration is limited mainly to sericitization, with minor epidote, clay and carbonate development. A sample of skarn material showed moderate amphibole and biotite development. Sulphide content within this suite ranged from 1-5%. Scheelite was present in only one sample, and no visible gold was seen. A detailed petrographic report can be found in Appendix 5.

3.7 Description of Mineralized Zones

3.7.1 West Zone

The West Zone consists of interbedded quartzite, variably calcareous schist and phyllite, and limestone. This sequence has been cut by an east-west trending, gently south dipping thrust fault, apparently truncating mineralized sections identified in drill sections, and surface showings at shallow depth. The entire package is cut by the main subvertical quartz monzonite dyke, which has intruded a structure relating to the pervasive structural event. The hanging wall along the south side has been uplifted roughly five to ten metres. The West Zone is considered to encompass the entire surface extent of the dyke (Refer to plan map and cross and long sections in Appendix 11).

The altered quartz monzonite dykes within the West Zone contain disseminated fine grained pyrite and pyrrhotite, and local coarse grained partly oxidized pyrite. Quartz stringer, and lesser quartz-arsenopyrite stringer zones locally occupy contact zones. Significant portions of the dykes are auriferous, with values of 1.6 gpt Au/ 9.6metres, and 1.81 gpt Au/ 12.7 metres. Hole 97-2, collared in the dyke, returned 1.77 gpt/ 35.3 metres including 1.36 gpt Au/ 15.2 metres from the dike. The 1997 drilling program by EPL/ MRG

returned values to 2.61 gpt Au/ 6.1 metres from intrusive rock. Trench T9703 by VEC returned a value of 1.70 gpt Au/ 11.7 metres from the dyke, part of a zone extending into calcareous phyllite returning 1.59 gpt Au/ 25.0 metres. Anomalous values of 0.48 gpt Au/ 4.0 metres were obtained from quartz monzonite at the south end of the trench. In 1998, a value of 5.18 gpt Au/ 10.0 metres was returned from an eastern extension of the dyke, with highest values towards the contacts, within mineralized limestone. This value was part of a broad mineralized unit of both dyke and calcareous sedimentary host rock material returning 2.05 gpt Au/ 36 metres. This is significant, illustrating that the area of intersection of structurally controlled intrusive units and reactive sediments form favourable settings for mineralization. This zone may continue down-dip to the west.

More significantly, these dykes appear to control adjacent footwall mineralization, resulting in wide zones of combined dike and footwall skarn mineralization. A value of 3.85 gpt Au/ 6.0 metres in footwall skarn material is contiguous with a zone returning 1.6 gpt Au/ 9.6 metres within dike material, resulting in a combined zone returning 2.47 gpt Au/ 15.6 metres. A similar zone returning 1.85 gpt Au/ 20.6 metres includes 1.6 gpt Au/ 9.6 metres from dike material. 1997 trenching showed a similar association, as well as locally significant hanging wall mineralization. This suggests that the dykes may be mapping mineralizing structures or conduits.

Mr. Kreft mined 17.1 tons grading 1.29 oz Au/ton from a high grade sediment hosted zone not immediately adjacent to the dike. 1997 drilling by EPL/MRG across this returned a value of 3.23 gpt Au/21.3 metres. Trenching by VIE returned a value of 2.23 gpt/ 22.0 metres. The Kreft high-grade zone is located roughly 40 metres to the north of the dike.

At first glance, there appears to be little correlation between the wide auriferous intersections returned from the 1997 drilling and more narrow gold zones encountered in the 1981 drilling, suggesting mineralization is poddy and discontinuous. However, the 1981 drilling was conducted east-west, nearly parallel to stratigraphy, and may fail to intersect mineralization overlying or underlying the horizon drilled. Thus, observed intercepts and grades are the least representative of all historical drilling and cannot be correlated with those encountered in the 1997 drilling. A "fence" of holes drilled across stratigraphy to test the width of the zone is warranted. Still, both phases of drilling suggest potential for significant mineralization at depth (Appendix 11).

It is noteworthy that sampling of drill core yielded consistently higher values than surface trench sampling within the West and East Zones. This may be caused by gold enrichment in very thin, oxidized weathered beds, possibly not incorporated into chip samples, or by thickening of mineralized horizons and wider units of reactive stratigraphy at depth.

3.7.2 East Zone

The East Zone is centered roughly 600 metres east-southeast of the West zone (refer to plan map and cross-sections in Appendix 11). This zone is comprised of a 100 metre thick sequence containing at least four mineralized retrograde skarn horizons within calcareous sediments. Minor quartz monzonite dykes were encountered in drilling and trenching. This sequence extends at least 500 metres and is open to the east, west and down-dip. Seven vertical diamond drill holes were cored in 1983. However, only select intersections were assayed, all other core was disposed of on site. A value of zero for gold content across all unassayed intervals. The 1983 drilling returned values of 7.12 gpt Au/ 3.5 metres from the bottom of the hole, 1.51 gpt Au/ 11 metres, and 4.1 gpt Au/3.0 metres. In Hole 83-6 a value of 5.62 gpt Au/ 3.0 metres was returned from slightly below the footwall of a 2.8 metre wide dike. Again, trench values are consistently lower than values from drilling. Trenching in 1997 returned values of 0.79 gpt Au/ 8.0 metres from T9705, and 1.45 gpt Au/ 10.0 metres from skarn material in T9707 (Appendix 1). Drilling in 1997 returned values to 0.92 gpt Au/ 45.7 metres, including 1.51 gpt Au/ 18.3 metres. In 1998, favourable trench results were obtained from east of the 1997 trenching. Trench T9813 returned a value of 328 ppb Au/ 148 metres, including 1.34 gpt Au/10 metres. Trench T9814, excavated east-west and abutting onto T9813 to the east, returned 822 ppb Au/ 98 metres, showing lateral continuation of mineralization along bedding. A value of 1.59 gpt Au/ 14 metres was returned from T9822, located 100m east of T9813. Trench T9823, excavated 200m east of T9822, returned 348ppb Au/ 12 metres. The total trench length is

14 metres, terminated due to permafrost and overburden. These trenches show mineralized zones remain open to the east.

Intrusive hosted mineralization is not significant in the East Zone. Rather, it is defined by detachment zones and associated intense isoclinal folding within calcareous phyllites and limestone resulting in broader but lower grade mineralized zones than those within the West Zone.

Drilling results in both zones indicate thickening of mineralized units with depth. Favourable stratigraphy extends to a minimum depth of 100 metres, improving resource potential. Bulk tonnage potential is improved by the presence of small high grade mineralized gouge zones with values to 51.87 gpt Au, within broad zones of low grade gold.

3.7.3 Southeast Occurrence along Aurex Border

Several samples were taken from small trenches at least 30 years old excavated from retrograde skarn altered impure limestone. Calc-silicate development and silicification were less pronounced than at the West and East Zones; up to 2% pyrrhotite and minor pyrite is present. Composite grab sampling returned values of 2.50 and 0.57 gpt Au from the south end of L11200 E, and a value of 0.53 gpt Au from the south end of L11400 E.

Trench T9826, located roughly 1.5 kilometres east of the East Zone and somewhat north-east of the old trenches, returned values of 403 ppb Au/ 20 metres, and 140 ppb Au/ 44 metres from systematic grab sampling every two metres across two separate zones. This was excavated somewhat east of the Southeast Occurrence and suggests the West Zone, East Zone, and this occurrence belong to the same broad package of altered calcareous sediments with a minimum strike length of 2.4 kilometres.

3.7.4 Dublin Gulch Road Occurrence

Two composite grab samples taken in 1995 by Hemlo from the north side of the Dublin Gulch Road near the south end of L 9500 E 200 metres south of the East Zone returned values of 1.03 and 0.30 gpt Au respectively. Samples were of weakly calc-silicate altered calcareous phyllite, with up to 2% pyrrhotite and moderate silicification. This represents horizon of similarly mineralized material to that of the major zones. Exploration in 1998 failed to locate significant mineralization along this occurrence.

CHAPTER FOUR: CONCLUSIONS

The McQuesten Project is underlain by a broad package of Hyland Group Yusezyu Formation sediments, consisting of phyllite, chlorite-sericite schist, and calcareous phyllite and limestone members. Stratigraphy underlying the western portion extends at roughly 110 degrees; to the east this bends slightly northward, striking at about 70 degrees within eastern areas. The entire package has been deformed by the Tombstone Strain Zone, dated at roughly 142 million years. The Robert Service Thrust fault separating the Hyland Group from younger underlying Keno Hill Quartzite sediments extends east-west slightly north of the main explored areas. Abundant parallel splays and "detachment zones" extend upwards from the thrust, resulting in significant structural preparation of host rock and forming a broad deformation zone. Small Keno Hill Quartzite members have been emplaced into this package. NNW trending extensional faults including the Thompson Creek Fault, part of a regional tectonic system, occur within the district. A Tombstone Suite quartz monzonite dike extends roughly east-northeast within western areas; several minor dykes occur across the property.

Two major structural trends have been observed on the property. An early trend occurs largely in southern areas, resulting in a structural fabric oriented at roughly 100° to 110°. This was followed by a more pervasive trend extending across the property, probably related to the Tombstone Strain Zone resulting in a fabric oriented at 075° to 090°. Subsequent dyke emplacement appears controlled by both structural events. Reactivation of the earlier trending fabric, shown by structural disruption of the dyke at 100° to 110°, is likely.

Four major mineralized settings occur within the property: 1) sediment hosted retrograde skarn gold mineralization, 2) intrusive hosted gold, 3) Keno Hill style silver-lead-zinc veins, and 4) minor quartz-arsenopyrite veins. Sediment hosted mineralization consists of abundant structurally prepared zones along thrust detachment zones. It consists of massive to banded pyrrhotite with lesser pyrite, arsenopyrite, and minor chalcopyrite associated with typical retrograde skarn calc-silicate mineral assemblages. Two major zones within western areas, called the West and East Zones, may be dextrally offset portions of a single wide zone. The West Zone hosts a gold mineralized quartz monzonite dyke and associated footwall skarn mineralization. Values from 1997 trenching include 1.59 gpt Au/ 25.0 metres, including 1.70 gpt Au/ 11.7 metres across dike material. Values from sediment hosted mineralization only to 2.23 gpt Au/ 22.0 metres were returned. 1997 drilling by EPL/MRG returned 3.23 gpt Au/ 21.3 metres, and 1.77 gpt Au/ 35.3 metres from the West Zone. Trenching in 1998 returned a value of 2.05 gpt Au/ 36 metres from an extension of the dyke and mineralized country rock 500 metres east of the West Zone. This shows that both structural control and reactive host settings are necessary for significant mineral emplacement. Values obtained from 1998 trenching of the East Zone include: 0.33 gpt Au/ 148 metres, and 0.82 gpt/ 98 metres from an east-west trench showing lateral extent of mineralization., and 0.92 gpt Au/ 45.7 metres across the East Zone. Trenching values are consistently lower than drilling values, suggesting thickening of mineralized members with depth.

A trench excavated in 1998 roughly 1.5 km east of the East Zone and somewhat east of old trenches returning values to 2.50 gpt Au, returned values of 0.40 gpt Au/ 20 metres. This area, called the Southeast Occurrence, may be an eastern extension of the East Zone, suggesting the presence of a 2.4 km long mineralized belt. This improves significantly the economic prospectivity of the project.

Results of an induced polarization survey done in 1998 suggest a sizeable similar mineralized calcareous horizon, open to the east, just south of the East Zone. Surveying also suggests the possibility of a NW-SE trending dextral fault along extensions of the Wayne Vein signifying that the East Zone may be an extension of the West Zone that has been offset to the south. Results of the 1998 magnetometer survey support earlier results from a 1995 Hemlo survey, providing further evidence for a continuous zone between the East Zone and Southeast Occurrence.

Sediment hosted bulk tonnage potential is enhanced by the presence of narrow high grade gouge and fault zones, returning values to 51.87 gpt Au within broad zones of low grade gold mineralization. The East and West Zones appear bounded by graphitic horizons, which also occur in the Southeast Occurrence. These units, easily identified by induced polarization surveying, may be used as marker horizons to delineate mineralized members between the East Zone and Southeast Occurrence.

Results from bottle roll testing indicate that most of the gold occurs as free gold, and does not report to pyrrhotite. Recoveries of drill samples ranged from 56% to 75% after 72 hours, still increasing up to 9.2% over 24 hours, with best recoveries obtained from unoxidized sulphide material at a depth of 91 metres. This suggests heap leaching techniques for ore extraction may be feasible.

A broad zonation occurs on a district scale, resulting from fluid reactivation into reactive sediments caused by emplacement of the Tombstone Suite intrusives. This consists of copper-tungsten mineralization with minor gold in the Scheelite Dome area west of the McQuesten Project through gold-bismuth mineralization within and in the vicinity of the property, to abundant lead-zinc-silver veining centred at Keno City to the east. This is similar to zonation recognised by Theodore, Orris, Hammarstrom and Bliss. The McQuesten Property and surrounding area, as well as the Len and Dublin Gulch areas are located at the optimum distance from the stocks for emplacement of gold mineralization. The abundance of sizeable intrusive structures suggest that multiple heat sources may exist, causing an overlap of mineralizing events. A major gold camp, shown by recent hard rock exploration and abundant historic and ongoing placer mining, may be centred near the McQuesten Property, and is just beginning to be recognised.

CHAPTER FIVE: RECOMMENDATIONS

A 1500 metre RC drill program for $200,000 is recommended to define a geologic resource across the West and East Zones. Proposed holes are outlined in red on the plan map and cross-sections in Appendix 11. Drilling and mechanised trenching are also recommended to test the promising anomaly just south of the East Zone.

A systematic induced polarization survey is recommended to test for potential extension of mineralized zones, possibly within a wide corridor, between the East Zone and the Southeast Occurrence. Trenching of favourable geophysical targets is recommended where ground permits, particularly near the Southeast Occurrence.

Detailed geological mapping, geochemical sampling and prospecting is recommended for the area near the inferred NW-SE trending fault, to test for possible dextral offsetting of mineralization underlying the West Zone.

Similar reactive, mineralized horizons to the West and East Zones extend across the Aurex Property to the south, which borders the Southeast Occurrence. An option agreement concerning the four northern rows of Aurex claims should be considered. The McQuesten Property is small, and, if minable reserves are delineated, an increased ground position is recommended.

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STATEMENT OF QUALIFICATIONS

I, Carl Schulze, of the City of Whitehorse, Yukon Territory, do hereby certify that:

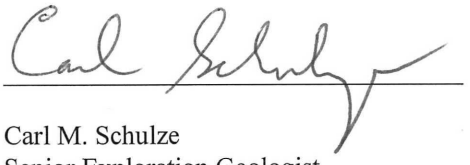
1) I have been employed as a Senior Exploration Geologist by Viceroy International Exploration since 1996.

2) I graduated from Lakehead University with a Bachelor of Science Degree in Geology in 1984.

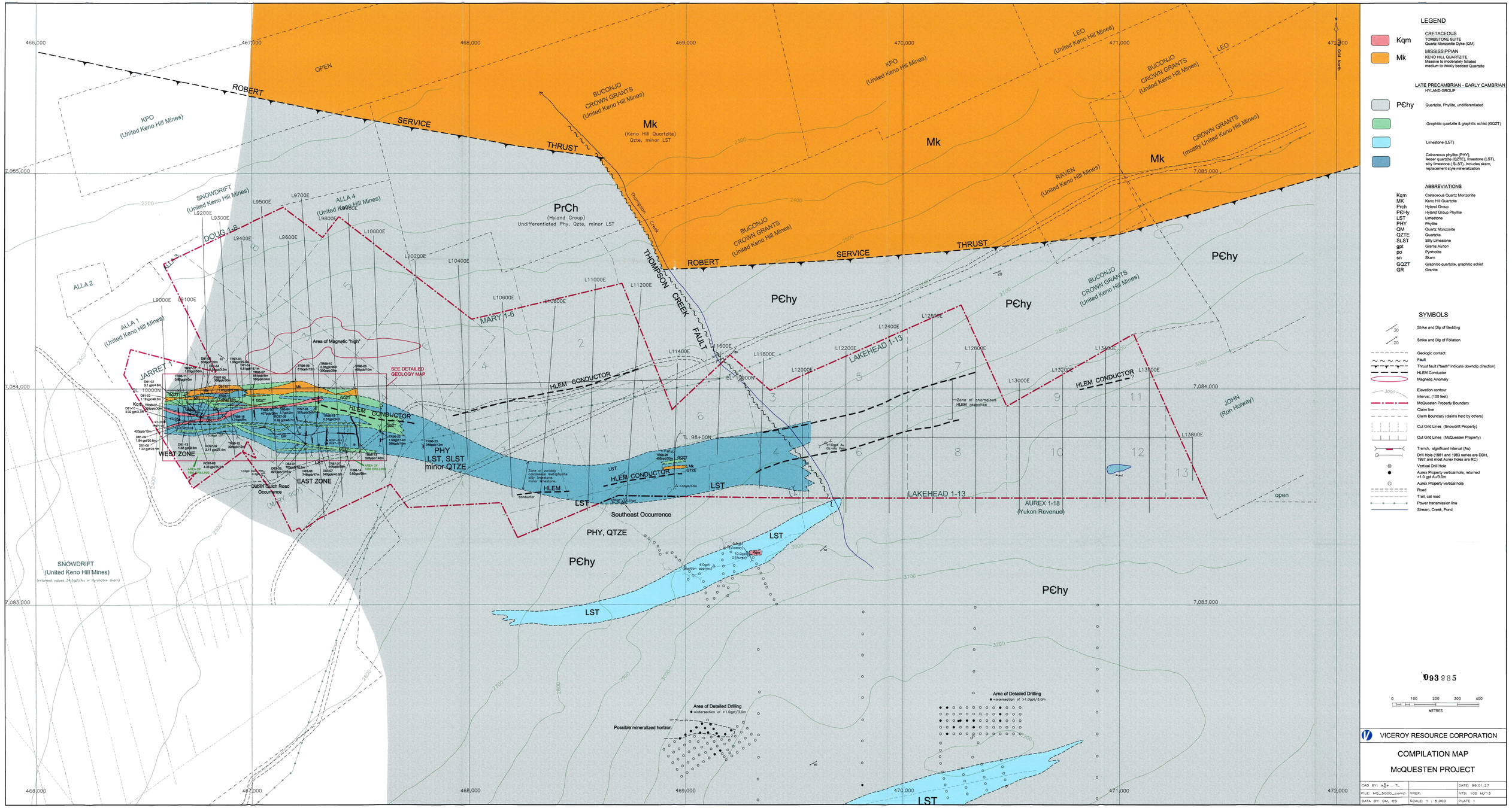
3) I have been practising my profession as a geologist since 1984.

4) I performed part of the work described in this report.

5) I am currently president of the Yukon Chamber of Mines and am a member of the Yukon Prospectors Association.



Carl M. Schulze
Senior Exploration Geologist
Viceroy International Exploration, Inc.


LEGEND
CRETACEOUS
TOMBSTONE SUITE
Kqm
Quartz Monzonite Dyke (QM)
MISSISSIPPIAN
KENO HILL QUARTZITE
Mk
Massive to moderately foliated medium to thickly bedded Quartzite
LATE PRECAMBRIAN - EARLY CAMBRIAN
HYLAND GROUP
PЄhy
Quartzite, Phyllite, undifferentiated
Graphitic quartzite & graphitic schist (GQZT)
Limestone (LST)
Calcareous phyllite (PHY), lesser quartzite (QZTE), limestone (LST), silty limestone (SLST), includes skarn, replacement style mineralization
ABBREVIATIONS
Kqm Cretaceous Quartz Monzonite
MK Keno Hill Quartzite
Prch Hyland Group
PЄHy Hyland Group Phyllite
LST Limestone
PHY Phyllite
QM Quartz Monzonite
QZTE Quartzite
SLST Silty Limestone
gpt Grams Au/ton
po Pyrrhotite
sn Skarn
GQZT Graphitic quartzite, graphitic schist
GR Granite
SYMBOLS
Strike and Dip of Bedding
Strike and Dip of Foliation
Geologic contact
Fault
Thrust fault ("teeth" indicate downdip direction)
HLEM Conductor
Magnetic Anomaly
Elevation contour
Interval, (100 feet)
McQuesten Property Boundary
Claim line
Claim Boundary (claims held by others)
Cut Grid Lines (Snowdrift Property)
Cut Grid Lines (McQuesten Property)
Trench, significant interval (Au)
Drill Hole (1981 and 1983 series are DDH, 1997 and most Aurex holes are RC)
Vertical Drill Hole
Aurex Property vertical hole, returned >1.0 gpt Au/3.0m
Aurex Property vertical hole
Road
Trail, cat road
Power transmission line
Stream, Creek, Pond
METRES
VICEROY RESOURCE CORPORATION
COMPILATION MAP
McQUESTEN PROJECT
CAD BY: ♣♧♦, TL
DATE: 99.01.27
FILE: MQ_5000_comp
XREF:
NTS: 105 M/13
DATA BY: GM, CS
SCALE: 1 : 5,000
PLATE 1
ROBERT
SERVICE
THRUST
OPEN
KPO (United Keno Hill Mines)
BUCONJO CROWN GRANTS (United Keno Hill Mines)
LEO (United Keno Hill Mines)
RAVEN (United Keno Hill Mines)
CROWN GRANTS (mostly United Keno Hill Mines)
Mk (Keno Hill Quartzite) Qzte, minor LST
PrCh (Hyland Group) Undifferentiated Phy, Qzte, minor LST
PЄhy
Thompson Creek
THOMPSON CREEK FAULT
SNOWDRIFT (United Keno Hill Mines)
ALLA 1 (United Keno Hill Mines)
ALLA 2
ALLA 3
ALLA 4 (United Keno Hill Mines)
DOUG 1-8
MARY 1-6
LAKEHEAD 1-13
JARRET
JOHN (Ron Holway)
AUREX 1-18 (Yukon Revenue)
Area of Magnetic "high"
SEE DETAILED GEOLOGY MAP
HLEM CONDUCTOR
WEST ZONE
EAST ZONE
PHY LST, SLST minor QTZE
Dublin Gulch Road Occurrence
Southeast Occurrence
PHY, QTZE
LST
Zone of anomalous HLEM conductor
Zone of variably calcareous, meta/phyllite silty limestone, minor limestone.
Area of Detailed Drilling
●=intersection of >1.0gpt/3.0m
Possible mineralized horizon
SNOWDRIFT (United Keno Hill Mines)
(returned values 34.3gpt/Au in Pyrrhotite skarn)
open
Pond
466,000
467,000
468,000
469,000
470,000
471,000
472,000
7,085,000
7,084,000
7,083,000

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MAYO, Y.T.
INDIAN & NORTHERN
AFFAIRS

1998
GEOLOGICAL AND GEOCHEMICAL ASSESSMENT REPORT ON THE MCQUESTEN PROJECT

093985 1/2

Quartz Claims

Doug 1-4	YB28942-28945
Doug 5-8	YB28998-29001
Doug 9	YB29395
Jarret 1	YB29440
Lakehead 1-2	YB64184-64185
Lakehead 3-4	YB64192-64193
Lakehead 5-10	YB64186-64191
Lakehead 11-13	YB64194-64196
Mary 1-4	YB29002-29005
Mary 5-6	YB29393-29394
South Fr	YC01211
Park Fr	YC01212

Mayo Mining District
N.T.S. 105 M/13

Latitude: 63°53' N
Longitude: 135°40' W

Owner: Bernard Kreft

Author: Carl Schulze
Viceroy Exploration (Canada), Inc.

Date of work: May to August 1998

APPENDIX 1

Significant Trench and Drill Results to Date

McQUESTEN PROJECT — TABLE OF INTERSECTIONS: PRELIMINARY ONLY

NOTE: DATA HAS NOT BEEN EDITED NOR CHECKED; ALL INTERSECTIONS QUOTED ARE PRELIMINARY AND SUBJECT TO REVISION

DDH ID / RC ID / Trench	From (m)	To (m)	Length (m)	Weighted Value results not cut	Weighted Value cut to 3000 ppb	From (m)	To (m)	Length (m)	Weighted Value results not cut	Weighted Value cut to 3000 ppb	Notes
D-83-01											
	15.01	24.16	9.15	1080							
	39.41	110.21	70.80	703	560	includes:					includes 38.28 metres not analysed (given value of 0)
						39.41	56.14	16.73	756		includes 8.39 m not analysed (given value of 0)
						76.30	79.55	3.25	1310		
						100.63	110.21	9.58	2867	1803	
						106.73	110.21	3.48	5929	3000	
D-83-02											
	72.23	89.92	17.69	627		includes					includes 6.09m not analysed (given value of 0)
						72.23	74.68	2.45	2000		
						86.87	89.92	3.05	1170		
D-83-03	no samples taken										
D-83-04											
	56.98	60.03	3.05	1000							
	74.74	76.72	1.98	5740							
D-83-05	no samples taken										
D-83-06											
	63.60	110.55	46.95	746	462	includes					includes 33.72 m not analysed (given value of 0)
						63.60	66.65	3.05	5620		
						103.42	110.55	7.13	2109	1360	
D-83-07											
	29.31	69.83	40.52	545	327	includes:					includes 30.98m not analysed (given value of 0)
						29.31	32.70	3.39	4566	1952	
						53.02	56.07	3.05	1280		
D-W81-01	no significant assays										
D-W81-02											
	18.00	22.60	4.60	3131	2908						
	49.50	54.10	4.60	1926	1378	includes:					
						51.00	52.20	1.20	5100		
	note: section 49.5 to 51 returned 970 ppb, however on reassay returned 0.148 oz gold/ton										

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DDH ID / RC ID / Trench	From (m)	To (m)	Length (m)	Weighted Value results not cut	Weighted Value cut to 3000 ppb		From (m)	To (m)	Length (m)	Weighted Value results not cut	Weighted Value cut to 3000 ppb	Notes
D-W81-03												
	6.50	55.80	49.30	1188	698	includes						
							6.50	18.30	11.80	3523	1474	
							41.60	55.80	14.20	1084		
						includes						all samples less than 3000
							41.60	46.60	5.00	2319		
							53.80	55.80	2.00	1765		
												individual sample
D-W81-04												
	50.60	53.80	3.20	6550								individual sample
D-W81-05												
	38.70	39.45	0.75	2000								individual sample
D-W81-06												
	5.80	37.80	32.00	538	510	includes						
							5.80	7.30	1.50	2940		
							23.80	37.80	14.00	746		individual sample
						includes						
							23.80	24.20	0.40	1660		
							33.65	37.80	4.15	2222	2005	individual sample
	72.30	74.00	1.70	2021								
D-W81-07												
	18.30	21.60	3.30	2070								individual sample
	47.50	54.30	6.80	1508	1226	includes						
							49.90	52.70	2.80	2757	2071	
	87.90	113.60	25.70	1631	726	includes						
							87.90	92.40	4.50	8170	3000	
							111.40	113.60	2.20	1100		
												individual sample
D-W81-08												
	36.60	58.70	22.10	1217		includes						all individual samples below 3000
							46.00	55.50	9.50	2170		
D-W81-09												
	34.90	55.50	20.60	1941	1469	includes						
							34.90	44.50	9.60	1603		all individual samples below 3000
							49.50	55.50	6.00	3851	2230	
D-W81-10												
	52.30	56.00	3.70	3016	1628	includes						
							52.30	53.00	0 70	1660		individual sample
							54.40	56.00	1.60	6210		individual sample

McQUESTEN PROJECT — TABLE OF INTERSECTIONS: PRELIMINARY ONLY

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DDH ID / RC ID / Trench	From (m)	To (m)	Length (m)	Weighted Value results not cut	Weighted Value cut to 3000 ppb		From (m)	To (m)	Length (m)	Weighted Value results not cut	Weighted Value cut to 3000 ppb	Notes
D-W81-13												
	64.80	74.10	9.30	1323		includes						
							64.80	67.90	3.10	1750		individual samples
							67.90	71.00	3.10	1279		individual samples
							71.00	74.10	3.10	940		individual samples
D-W81-14												
	22.40	40.50	18.10	813	763	includes						
							22.40	23.70	1.30	3700		individual sample
							34.10	40.50	6.40	1166		all individual samples below 3000
RC97-02												
	7.92	35.36	27.43	2111	1774	includes						
							7.92	14.02	6.10	2607	2357	
							23.16	35.36	12.19	3054	2421	
	Note: hole RC9702 ends in mineralization											
RC97-03												
	9.14	24.38	15.24	4363	2062	includes						
							9.14	12.19	3.05	3026		individual sample
							18.29	24.38	6.10	8741	3000	
RC97-06												
	49.68	95.40	45.72	922	783	includes						
							49.68	52.73	3.05	1025		individual sample
							61.87	95.40	33.53	1111	920	
						includes						
							67.97	92.35	24.38	1458	1030	
						includes						
							67.97	71.02	3.05	1143		individual sample
							80.16	83.21	3.05	1519		individual sample
							86.26	92.35	6.10	3119	2071	
	NOTE: TRENCH SAMPLE COMPOSITS ARE SET TO SHOW MINERALIZED BLOCKS											
TR9701												
	0	56	56	1004	832	includes						
							22	44	22	2227	1789	
							34	44	10	3521	2557	

TABLE OF INTERSECTIONS: PRELIMINARY ONLY

NOTE: DATA HAS NOT BEEN EDITED NOR CHECKED; ALL INTERSECTIONS QUOTED ARE PRELIMINARY AND SUBJECT TO REVISION

DDH ID / RC ID / Trench	From (m)	To (m)	Length (m)	Weighted Value results not cut	Weighted Value cut to 3000 ppb	From (m)	To (m)	Length (m)	Weighted Value results not cut	Weighted Value cut to 3000 ppb	Notes
TR9702											
	10	12	2	2820							individual sample
	26	56	30	368		includes					all individual samples below 3000
						38	56	18	517		all individual samples below 3000
						includes					
						48	56	8	721		all individual samples below 3000
						includes					
						48	50	2	1010		individual sample
						54	56	2	1680		individual sample
TR9703											
	12	37.3	25.3	1576	1332	includes					
						12	18	6	1863	1677	
						22	35	13	2019	1631	
TR9705											
	18	20	2	1160							individual sample
	36	60	24	351		includes					all individual samples below 3000
						36	38	2	1295		individual sample
TR9706											
	14	16	2	1360							individual sample
	28	36	8	375							all individual samples below 3000
TR9707											
	12	70	58	444	392	includes					
						12	52	40	559	483	
						42	44	2	1135		individual sample
						48	50	2	4520		individual sample
						68	70	2	1170		individual sample
TR9802											
	34	46	12	420							all individual samples below 3000
	82	112	30	339		includes					
						98	100	2	2120		individual sample
TR9803											
	0	2	2	1135							individual sample
	2	4	2	685							individual sample
TR9804											
	12	30	18	178							all individual samples below 1000
TR9805											
	56	58	2	6780							individual sample

NOTE: DATA HAS NOT BEEN EDITED NOR CHECKED; ALL INTERSECTIONS QUOTED ARE PRELIMINARY AND SUBJECT TO REVISION

DDH ID / RC ID / Trench	From (m)	To (m)	Length (m)	Weighted Value results not cut	Weighted Value cut to 3000 ppb	From (m)	To (m)	Length (m)	Weighted Value results not cut	Weighted Value cut to 3000 ppb	Notes
TR9807											
	8	42	34	360		includes					all individual samples below 3000
						38	40	2	1140		individual sample
						40	42	2	1910		individual sample
	60	62	2	1880							individual sample
	84	92	8	884		includes					all individual samples below 3000
						84	86	2	1125		individual sample
						90	92	2	1820		individual sample
TR9808											
	10	64	54	209		includes					all individual samples below 1000
						36	60	24	341		all individual samples below 1000
	116	134	18	299							all individual samples below 1000
TR9809											
	4	16	12	615		includes					all individual samples below 3000
						4	6	2	2480		individual sample
	72	86	14	124							all individual samples below 1000
	100	116	16	124							all individual samples below 1000
TR9810											
	2	30	28	300		includes					all individual samples below 3000
						24	26	2	1030		individual sample
	64	100	36	1408	983	includes					extreme high values cut to 10001
	64 to 100m uncut is 2047ppb Au over 36m					78	92	14	3020	1926	extreme high values cut to 10001
						includes					
						78	80	2	1940		individual sample
						84	86	2	2610		individual sample
						86	88	2	21500		individual sample
						88	90	2	3660		individual sample
						90	92	2	2670		individual sample
TR9811: Vertical samples, mathematical average only											
	2	42	40	919		including					all vertical samples less than 3000
						6	30	24	1284		all vertical samples less than 3000
						20	30	10	2284		all vertical samples less than 3000
						20	20	0	1870		individual vertical sample
						30	30	0	1280		individual vertical sample
	98	98	0	1055							individual vertical sample
	124	142	18	2478	1955	including					
						126	140	14	3048	2394	

TABLE OF INTERSECTIONS: PRELIMINARY ONLY

NOTE: DATA HAS NOT BEEN EDITED NOR CHECKED: ALL INTERSECTIONS QUOTED ARE PRELIMINARY AND SUBJECT TO REVISION

DDH ID / RC ID / Trench	From (m)	To (m)	Length (m)	Weighted Value results not cut	Weighted Value cut to 3000 ppb		From (m)	To (m)	Length (m)	Weighted Value results not cut	Weighted Value cut to 3000 ppb	Notes
TR9812												
	156	168	12	327.86								
	208	242	34	176		including						
							208	228	20	205		
TR9813												
	22	170	148	328		includes						horizontal samples only
							46	132	86	350		
						includes						
							126	132	6	487		
							46	118	72	369		
						includes						
							84	86	2	1205		individual sample
							94	96	2	2650		individual sample
							146	156	10	1336		
						includes						
							154	156	2	5120		individual sample
TR9814	ples											
	0	98	98	605	575							vertical samples, left wall only, arithmetic average
	0	98	98	822	696	includes						vertical samples, selecting best result of left or right
							8	88	80	939	783	includes a sample not previously included
						includes						
							80	80	1.3	1290		individual vertical sample (maybe left or right wall)
							88	88	0	4890		individual vertical sample (maybe left or right wall)
							88	88	1.1	1470		individual vertical sample (maybe left or right wall)
							8	48	40	1236	1030	includes a sample not previously included
						includes						
							8	8	0.2	4300		individual vertical sample (maybe left or right wall)
							16	16	0.5	3210		individual vertical sample (maybe left or right wall)
							28	28	0	1665		individual vertical sample (maybe left or right wall)
							32	32	0.4	1990		individual vertical sample (maybe left or right wall)
							34	34	0.8	5810		individual vertical sample (maybe left or right wall)
							38	38	0.4	1335		individual vertical sample (maybe left or right wall)
							48	48	0.4	1800		individual vertical sample (maybe left or right wall)

McQUESTEN PROJECT — TABLE OF INTERSECTIONS: PRELIMINARY ONLY

NOTE: DATA HAS NOT BEEN EDITED NOR CHECKED; ALL INTERSECTIONS QUOTED ARE PRELIMINARY AND SUBJECT TO REVISION

DDH ID / RC ID / Trench	From (m)	To (m)	Length (m)	Weighted Value results not cut	Weighted Value cut to 3000 ppb	From (m)	To (m)	Length (m)	Weighted Value results not cut	Weighted Value cut to 3000 ppb	Notes
TR9815											
	0	36	36	280		includes					all individual samples below 3000
						20	36	16	491		all individual samples below 3000
						includes					
						28	30	2	1410		individual sample
	60	86	26	407		includes					all samples less than 3000, also vertical samples, arithmatic average
						60	60	0.9	1830		individual vertical sample
						82	86	4	1008		all samples less than 3000, also vertical samples, arithmatic average
						82	82	1.4	1030		individual vertical sample
						86	86	1.2	1865		individual vertical sample
TR9816											
	0	38	38	286		includes					all individual samples below 1000
						0	14	14	504		all individual samples below 1000
	48	50	2	2890							individual sample
	106	114	8	1310		includes					
						110	112	2	4240		individual sample
TR9817											
	12	14	2	1005							individual sample
	54	102	48	184		includes					all individual samples below 3000
						54	60	6	383		all individual samples below 3000
						82	90	8	433		all individual samples below 3000
TR9818											
	8	10	2	8800							individual sample
	86	172	86	214		includes					all individual samples below 3090
						86	96	10	330		
						includes					
						92	94	2	1135		individual sample
						112	114	2	1440		individual sample
						126	143.5	17.5	448		all individual samples below 3090
						includes					
						136	137	0.8	3090		individual sample
						154	172	18	172		all individual samples below 3000
						includes					
						170	171	1	1030		individual sample

McQUESTEN PROJECT

TABLE OF INTERSECTIONS: PRELIMINARY ONLY

NOTE: DATA HAS NOT BEEN EDITED NOR CHECKED; ALL INTERSECTIONS QUOTED ARE PRELIMINARY AND SUBJECT TO REVISION

DDH ID / RC ID / Trench	From (m)	To (m)	Length (m)	Weighted Value results not cut	Weighted Value cut to 3000 ppb	From (m)	To (m)	Length (m)	Weighted Value results not cut	Weighted Value cut to 3000 ppb	Notes
TR9819											
	2	4	2	2980							individual sample
	58	82	24	510		includes					all individual samples below 3000
						58	66	8	1248		all individual samples below 3000
						includes					
						60	62	2	1890		individual sample
						62	64	2	2750		individual sample
TR9821											
	18	34	16	134							all individual samples below 1000
TR9822											
	16.00	32.00	16.00	389		includes					all individual samples below 3000
						30	32	2	2090		individual sample
	32.00	56.00	24.00								no trench road
	60.00	74.00	14.00	1589	1045	includes					
						62	64	2	1610		individual sample
						68	70	2	6810		individual sample
TR9823											
	2.00	14.00	12.00	348		includes					all individual samples below 3000
						12	14	2	1300		individual sample
TR9824											
	68.00	92.00	24.00	138		includes					all individual samples below 3000
						74	92	18	162		all individual samples below 3000
TR9825											
	16.00	18.00	2.00	1365							individual sample
	56.00	66.00	10.00	458		includes					all individual samples below 3000
						62	64	2	1855		individual sample
TR9826	140.00	160.00	20.00	403		includes					all individual samples below 3000
						146	148	2	2580		individual sample
	176.00	220.00	44.00	140		includes					from 160 to 176m permafrost overburden not penetrated
						182	206	24	175		all individual samples below 3000
	234.00	252.00	18.00	162		includes					all individual samples below 3000
						234	242	8	266		all individual samples below 3000

APPENDIX 2

Statement of Expenditures Applicable for Assessment

McQuesten Property Expenditures			
Description	**Expenditure**		
Labor	$	122,275	
Rock Sampling	$	31,666	
ICP	$	14,855	
Trenching	$	62,592	
Room and Board	$	29,211	
Ground Transportation	$	7,419	
Linecutting	$	4,626	
	$	**260,599**	**Total**

APPENDIX 3

1998 Assay Certificates and Results

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

A9830536

Comments: ATTN: RICK DIMENT

CERTIFICATE A9830536

(OQN) - VICEROY EXPLORATION (CANADA), INC. *

Project: MCQUESTER
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 14-SEP-1998.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	91	Geochem ring to approx 150 mesh
226	91	0-3 Kg crush and split
3202	91	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	91	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : MCQUESTER
Comments: ATTN: RICK DIMENT

Page :1
Total :3
Certificate Date: 14-SEP-1998
Invoice No. :I9830536
P.O. Number :
Account :OQN

CERTIFICATE OF ANALYSIS A9830536

SAMPLE	PREP CODE		Au ppb FA+AA
TR9826 0-2	205	226	145
TR9826 2-4	205	226	60
TR9826 4-6	205	226	75
TR9826 6-8	205	226	30
TR9826 8-10	205	226	< 5
TR9826 10-12	205	226	< 5
TR9826 12-14	205	226	< 5
TR9826 14-16	205	226	< 5
TR9826 16-18	205	226	40
TR9826 18-20	205	226	70
TR9826 20-22	205	226	40
TR9826 22-24	205	226	25
TR9826 24-26	205	226	10
TR9826 26-28	205	226	< 5
TR9826 28-30	205	226	< 5
TR9826 32-34	205	226	< 5
TR9826 34-36	205	226	70
TR9826 36-38	205	226	160
TR9826 38-40	205	226	50
TR9826 40-42	205	226	80
TR9826 42-44	205	226	70
TR9826 44-46	205	226	35
TR9826 46-48	205	226	10
TR9826 48-50	205	226	10
TR9826 50-52	205	226	120
TR9826 52-54	205	226	75
TR9826 54-56	205	226	45
TR9826 56-58	205	226	10
TR9826 60-62	205	226	25
TR9826 62-64	205	226	35
TR9826 64-66	205	226	20
TR9826 122-124	205	226	< 5
TR9826 124-126	205	226	< 5
TR9826 126-128	205	226	< 5
TR9826 128-130	205	226	< 5
TR9826 130-132	205	226	< 5
TR9826 132-134	205	226	10
TR9826 134-136	205	226	10
TR9826 136-138	205	226	20
TR9826 138-140	205	226	60

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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VICEROY EXPLORATION (CANADA), INC

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WHITEHORSE, YT
Y1A 4L2

Project : MCQUESTER
Comments: ATTN: RICK DIMENT

Certificate Date: 14-SEP-1998
Invoice No. : I9830536
P.O. Number :
Account :OQN

CERTIFICATE OF ANALYSIS A9830536

SAMPLE	PREP CODE	Au ppb FA+AA
TR9826 140-142	205 226	140
TR9826 142-144	205 226	85
TR9826 144-146	205 226	130
TR9826 146-148	205 226	2580
TR9826 148-150	205 226	50
TR9826 150-152	205 226	120
TR9826 152-154	205 226	350
TR9826 154-156	205 226	300
TR9826 156-158	205 226	170
TR9826 158-160	205 226	105
TR9826 176-178	205 226	215
TR9826 178-180	205 226	10
TR9826 180-182	205 226	5
TR9826 182-184	205 226	105
TR9826 184-186	205 226	180
TR9826 186-188	205 226	100
TR9826 188-190	205 226	70
TR9826 190-192	205 226	250
TR9826 192-194	205 226	280
TR9826 194-196	205 226	270
TR9826 196-198	205 226	400
TR9826 198-200	205 226	90
TR9826 200-202	205 226	40
TR9826 202-204	205 226	180
TR9826 204-206	205 226	135
TR9826 206-208	205 226	55
TR9826 208-210	205 226	70
TR9826 210-212	205 226	40
TR9826 212-214	205 226	35
TR9826 214-216	205 226	150
TR9826 216-218	205 226	200
TR9826 218-220	205 226	215
TR9826 220-222	205 226	30
TR9826 222-224	205 226	30
TR9826 224-226	205 226	15
TR9826 226-228	205 226	20
TR9826 228-230	205 226	20
TR9826 230-232	205 226	40
TR9826 232-234	205 226	20
TR9826 234-236	205 226	260

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : MCQUESTER
Comments: ATTN: RICK DIMENT

Page :3
Total :3
Certificate Date: 14-SEP-1998
Invoice No. :19830536
P.O. Number :
Account :OQN

CERTIFICATE OF ANALYSIS A9830536

SAMPLE	PREP CODE		Au ppb FA+AA
TR9826 236-238	205	226	250
TR9826 238-240	205	226	55
TR9826 240-242	205	226	500
TR9826 242-244	205	226	40
TR9826 244-246	205	226	35
TR9826 246-248	205	226	15
TR9826 248-250	205	226	25
TR9826 250-252	205	226	280
TR9826 252-254	205	226	20
TR9826 254-256	205	226	10
TR9826 256-257	205	226	80

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

A9831226

Comments: ATTN: RICK DIMENT

CERTIFICATE A9831226

(OQN) - VICEROY EXPLORATION (CANADA), INC.

Project: MCQUESTER
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 18-SEP-1998.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	1	Pulp, prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
384	1	Ag g/t: Gravimetric	FA-GRAVIMETRIC	3	1000
312	1	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : MCQUESTER
Comments: ATTN: RICK DIMENT

Page Number : 1
Total Pages : 1
Certificate Date: 18-SEP-1998
Invoice No. : 19831226
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9831226

SAMPLE	PREP CODE	Ag FA g/t	Pb %
MTR9824B	244 --	372	6.91

CERTIFICATION:

OVERLIMITS from A9830457

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

A9830457

Comments: ATTN: RICK DIMENT

CERTIFICATE A9830457

(OQN) - VICEROY EXPLORATION (CANADA), INC. *

Project: MCQUESTER
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 20-SEP-1998.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	110	Geochem ring to approx 150 mesh
294	110	4-7 Kg crush and split
3202	110	Rock - save entire reject
229	110	ICP - AQ Digestion charge

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	110	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	110	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119	110	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	110	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	110	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	110	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	110	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	110	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	110	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	500
2126	110	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	110	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	110	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	110	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	110	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
20	110	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
2132	110	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	110	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	110	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	110	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	110	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	110	Na %: 32 element, soil & rock	ICP-AES	0.01	10.00
2138	110	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	110	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	110	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	110	Sb ppm: 32 elsment, soil & rock	ICP-AES	2	10000
2142	110	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	110	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	110	Ti %: 32 element, soil & rock	ICP-AES	0.01	10.00
2145	110	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	110	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	110	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	110	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	110	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : MCQUESTER
Comments: ATTN: RICK DIMENT

Certificate Date: 20-SEP-1998
Invoice No. : I9830457
P.O. Number :
Account :OQN

CERTIFICATE OF ANALYSIS A9830457

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm
MTR9824A	205	294	6020	66.4	0.22	>10000	40	< 0.5	140	0.24	10.0	19	31	126	12.80	< 10	< 10	0.08	< 10	0.06	115
MTR9824B	205	294	120	>100.0	0.30	528	140	< 0.5	70	0.49	31.0	19	36	16	>15.00	< 10	20	0.11	< 10	0.10	>10000
MTR9825A	205	294	150	8.0	0.92	3140	360	< 0.5	6	0.21	10.5	18	98	208	12.95	< 10	40	0.11	< 10	0.07	>10000
MTR9825B	205	294	100	7.4	1.49	6120	320	< 0.5	10	2.15	30.0	12	86	515	8.35	< 10	10	0.18	10	0.81	1355
MTR9825C	205	294	2430	6.6	0.55	>10000	310	< 0.5	44	0.89	17.0	6	130	395	7.29	< 10	< 10	0.11	< 10	0.15	1225
MTR9825D	205	294	580	2.2	1.79	3950	150	0.5	22	0.49	15.5	43	60	400	6.39	< 10	30	0.09	< 10	1.42	2330
MTR9825E	205	294	465	1.6	1.06	>10000	210	< 0.5	10	0.16	6.5	15	114	159	7.82	< 10	< 10	0.11	10	0.07	585
TR9824 D1	205	294	15	0.8	1.12	142	240	< 0.5	< 2	0.22	0.5	4	168	40	2.10	< 10	10	0.14	20	0.31	190
TR9824 D2	205	294	65	1.0	1.27	448	240	< 0.5	2	0.07	1.5	3	99	50	1.88	< 10	< 10	0.15	10	0.41	175
TR9824 0-2	205	294	< 5	0.6	1.49	212	270	0.5	< 2	0.11	1.0	2	147	56	2.37	< 10	10	0.14	10	0.63	365
TR9824 2-4	205	294	< 5	1.4	1.09	88	340	0.5	< 2	0.28	1.0	2	187	51	1.65	< 10	60	0.19	10	0.30	155
TR9824 4-6	205	294	< 5	0.6	1.15	58	250	< 0.5	< 2	0.09	0.5	3	182	50	2.06	< 10	< 10	0.14	10	0.24	160
TR9824 6-8	205	294	< 5	0.4	1.59	52	170	< 0.5	< 2	0.19	0.5	4	201	35	2.65	< 10	10	0.10	10	0.44	220
TR9824 8-10	205	294	< 5	0.2	2.49	46	170	< 0.5	< 2	0.33	1.0	7	205	41	3.87	< 10	< 10	0.11	30	0.46	355
TR9824 10-12	205	294	< 5	0.4	1.68	228	130	< 0.5	< 2	0.20	0.5	4	194	45	3.07	< 10	< 10	0.08	10	0.47	260
TR9824 12-14	205	294	< 5	0.2	1.50	266	170	< 0.5	< 2	0.15	0.5	3	199	38	2.84	< 10	< 10	0.12	10	0.38	235
TR9824 14-16	205	294	< 5	0.4	2.27	164	150	< 0.5	< 2	0.23	1.0	5	106	67	3.76	< 10	< 10	0.11	20	0.44	260
TR9824 16-18	205	294	< 5	0.4	1.78	158	170	< 0.5	< 2	0.16	< 0.5	3	182	38	2.60	< 10	< 10	0.12	30	0.40	200
TR9824 18-20	205	294	< 5	0.4	2.28	208	160	< 0.5	< 2	0.16	< 0.5	4	167	78	3.84	< 10	< 10	0.10	10	0.55	560
TR9824 20-22	205	294	< 5	0.4	1.44	76	250	< 0.5	< 2	0.13	< 0.5	3	140	46	2.28	< 10	< 10	0.16	30	0.23	240
TR9824 22-24	205	294	5	0.6	1.76	174	220	< 0.5	< 2	0.17	0.5	4	174	49	2.89	< 10	< 10	0.16	30	0.40	245
TR9824 24-26	205	294	20	1.0	1.37	598	140	< 0.5	2	0.15	1.5	6	199	68	4.62	< 10	< 10	0.09	10	0.31	315
TR9824 26-28	205	294	< 5	0.2	1.52	100	180	< 0.5	< 2	0.16	0.5	6	150	46	2.94	< 10	< 10	0.11	10	0.28	225
TR9824 28-30	205	294	< 5	0.2	1.45	64	380	< 0.5	< 2	0.09	< 0.5	5	166	61	2.47	< 10	< 10	0.16	10	0.48	255
TR9824 30-32	205	294	< 5	0.4	1.48	40	260	< 0.5	< 2	0.13	0.5	4	166	31	2.62	< 10	< 10	0.14	20	0.41	230
TR9824 32-34	205	294	< 5	0.6	1.34	44	230	< 0.5	< 2	0.25	0.5	3	136	35	2.54	< 10	< 10	0.15	30	0.35	125
TR9824 34-36	205	294	70	0.8	2.20	778	230	0.5	2	1.21	6.0	15	113	181	4.82	< 10	< 10	0.15	20	1.07	595
TR9824 36-38	205	294	65	0.6	2.66	240	390	0.5	< 2	2.98	4.5	21	81	101	3.68	< 10	< 10	0.14	20	1.10	845
TR9824 38-40	205	294	45	0.4	2.17	86	600	0.5	2	9.67	8.5	14	49	65	2.68	< 10	10	0.18	10	0.66	605
TR9824 40-42	205	294	< 5	0.4	1.24	66	810	< 0.5	2	14.90	4.0	8	42	48	1.90	< 10	10	0.15	10	0.53	320
TR9824 42-44	205	294	10	< 0.2	1.17	16	240	< 0.5	2	>15.00	2.5	5	29	24	0.90	< 10	< 10	0.12	< 10	0.43	520
TR9824 44-46	205	294	45	0.2	2.27	68	880	< 0.5	2	>15.00	7.5	8	50	54	1.72	< 10	10	0.18	< 10	0.77	775
TR9824 46-48	205	294	10	0.6	1.18	110	370	< 0.5	< 2	0.27	1.0	2	182	40	1.98	< 10	< 10	0.27	10	0.45	190
TR9824 48-50	205	294	< 5	0.2	0.88	162	380	< 0.5	< 2	0.10	0.5	1	163	21	1.28	< 10	10	0.21	10	0.31	150
TR9824 50-52	205	294	< 5	0.4	0.74	108	360	< 0.5	< 2	0.05	1.0	1	178	21	1.51	< 10	10	0.20	10	0.25	140
TR9824 52-54	205	294	< 5	0.8	0.82	226	360	< 0.5	< 2	0.05	1.5	1	201	43	1.65	< 10	10	0.21	10	0.36	175
TR9824 54-56	205	294	15	2.2	0.97	508	290	< 0.5	4	0.07	2.0	2	205	72	1.84	< 10	< 10	0.19	10	0.31	115
TR9824 56-58A	205	294	< 5	0.8	0.62	178	280	< 0.5	2	0.04	1.5	1	230	57	1.58	< 10	< 10	0.19	10	0.18	90
TR9824 56-58B	205	294	< 5	1.2	0.72	148	350	< 0.5	2	0.04	0.5	1	159	43	1.29	< 10	< 10	0.21	10	0.23	130
TR9824 58-60A	205	294	25	2.8	0.83	440	320	< 0.5	10	0.10	2.0	1	161	78	1.62	< 10	10	0.21	10	0.19	95

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : MCQUESTER
Comments: ATTN: RICK DIMENT

Page Number : 1-B
Total Pages : 3
Certificate Date: 20-SEP-1998
Invoice No. : 19830457
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9830457

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
MTR9824A	205	294	4	< 0.01	6	< 10	660	58	1	44	< 0.01	30	< 10	11	< 10	196
MTR9824B	205	294	3	< 0.01	59	290	>10000	138	2	105	< 0.01	< 10	< 10	5	< 10	2600
MTR9825A	205	294	8	< 0.01	51	970	410	20	3	89	< 0.01	< 10	< 10	13	< 10	1055
MTR9825B	205	294	3	< 0.01	25	8790	274	6	4	570	< 0.01	< 10	< 10	44	< 10	270
MTR9825C	205	294	1	< 0.01	16	760	54	< 2	2	118	< 0.01	< 10	< 10	13	< 10	216
MTR9825D	205	294	4	< 0.01	128	850	26	2	4	70	0.02	< 10	< 10	34	50	634
MTR9825E	205	294	9	< 0.01	102	900	30	22	4	32	< 0.01	< 10	< 10	14	< 10	730
TR9824 D1	205	294	4	0.04	18	990	20	< 2	1	54	< 0.01	< 10	< 10	44	< 10	116
TR9824 D2	205	294	1	< 0.01	33	220	4	2	2	18	< 0.01	< 10	< 10	24	< 10	82
TR9824 0-2	205	294	4	0.03	23	840	14	< 2	1	59	< 0.01	< 10	< 10	23	< 10	122
TR9824 2-4	205	294	6	0.04	16	1710	12	< 2	1	95	< 0.01	< 10	< 10	84	< 10	74
TR9824 4-6	205	294	3	0.05	18	370	10	< 2	1	48	< 0.01	< 10	< 10	27	< 10	60
TR9824 6-8	205	294	3	0.05	22	680	8	< 2	2	45	< 0.01	< 10	< 10	30	< 10	72
TR9824 8-10	205	294	3	0.09	33	1080	8	< 2	2	87	< 0.01	< 10	< 10	38	< 10	106
TR9824 10-12	205	294	4	0.05	19	690	12	< 2	3	44	< 0.01	< 10	< 10	35	< 10	76
TR9824 12-14	205	294	4	0.03	17	590	12	< 2	1	42	< 0.01	< 10	< 10	28	< 10	58
TR9824 14-16	205	294	3	0.05	33	750	8	< 2	1	47	< 0.01	< 10	< 10	30	< 10	80
TR9824 16-18	205	294	2	0.05	19	470	6	< 2	2	37	< 0.01	< 10	< 10	26	< 10	50
TR9824 18-20	205	294	3	0.03	31	540	16	< 2	3	32	< 0.01	< 10	< 10	43	< 10	98
TR9824 20-22	205	294	4	0.05	19	480	8	< 2	1	41	< 0.01	< 10	< 10	24	< 10	62
TR9824 22-24	205	294	4	0.04	23	670	16	< 2	2	51	< 0.01	< 10	< 10	29	< 10	98
TR9824 24-26	205	294	8	0.02	21	740	12	< 2	2	31	< 0.01	< 10	< 10	37	< 10	114
TR9824 26-28	205	294	5	0.03	23	670	2	< 2	1	40	< 0.01	< 10	< 10	26	< 10	124
TR9824 28-30	205	294	5	0.03	28	410	6	< 2	1	26	< 0.01	< 10	< 10	30	< 10	108
TR9824 30-32	205	294	3	0.04	22	570	2	< 2	1	45	< 0.01	< 10	< 10	38	< 10	94
TR9824 32-34	205	294	4	0.04	18	1200	8	< 2	2	70	< 0.01	< 10	< 10	50	< 10	126
TR9824 34-36	205	294	3	0.01	63	920	6	< 2	4	75	0.03	< 10	< 10	68	< 10	360
TR9824 36-38	205	294	1	0.05	46	310	4	< 2	3	117	0.13	< 10	< 10	29	< 10	196
TR9824 38-40	205	294	3	0.07	38	300	12	< 2	2	371	0.09	< 10	< 10	16	< 10	252
TR9824 40-42	205	294	3	< 0.01	36	300	18	< 2	1	753	0.08	< 10	< 10	10	< 10	196
TR9824 42-44	205	294	< 1	0.06	12	300	12	< 2	1	1215	0.02	< 10	< 10	7	< 10	82
TR9824 44-46	205	294	3	0.08	30	490	16	< 2	1	690	0.07	< 10	< 10	15	< 10	202
TR9824 46-48	205	294	7	0.01	11	790	6	4	1	33	< 0.01	< 10	< 10	50	< 10	80
TR9824 48-50	205	294	1	0.01	7	230	6	2	1	25	< 0.01	< 10	< 10	20	< 10	34
TR9824 50-52	205	294	10	< 0.01	10	300	6	6	< 1	30	< 0.01	< 10	< 10	23	< 10	40
TR9824 52-54	205	294	7	< 0.01	7	240	< 2	2	1	24	< 0.01	< 10	< 10	29	< 10	32
TR9824 54-56	205	294	7	< 0.01	17	290	14	4	1	28	< 0.01	< 10	< 10	26	< 10	40
TR9824 56-58A	205	294	5	< 0.01	8	300	6	2	1	19	< 0.01	< 10	< 10	19	< 10	36
TR9824 56-58B	205	294	5	< 0.01	8	170	22	2	1	17	< 0.01	< 10	< 10	21	< 10	30
TR9824 58-60A	205	294	3	< 0.01	14	480	68	8	1	31	< 0.01	< 10	< 10	29	< 10	38

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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To: VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : MCQUESTER
Comments: ATTN: RICK DIMENT

Page Number :2-A
Total Pages :3
Certificate Date: 20-SEP-1998
Invoice No. : I9830457
P.O. Number :
Account :OQN

CERTIFICATE OF ANALYSIS A9830457

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm
TR9824 58-60B	205	294	5	0.2	0.62	178	210	< 0.5	< 2	0.05	0.5	< 1	66	48	1.49	< 10	10	0.13	10	0.23	125
TR9824 60-62	205	294	5	0.6	0.87	318	170	< 0.5	< 2	0.06	1.5	2	75	84	1.79	< 10	10	0.12	10	0.29	140
TR9824 62-64	205	294	30	1.0	1.09	464	180	< 0.5	< 2	0.06	1.5	2	49	52	1.62	< 10	< 10	0.12	10	0.38	175
TR9824 64-66	205	294	15	0.2	0.73	572	130	< 0.5	< 2	0.06	1.5	1	105	53	1.23	< 10	< 10	0.08	10	0.16	75
TR9824 66-68	205	294	< 5	< 0.2	0.44	278	60	< 0.5	< 2	0.04	1.5	1	104	17	0.76	< 10	< 10	0.05	< 10	0.14	50
TR9824 68-70	205	294	125	1.6	0.43	812	100	< 0.5	2	0.05	2.0	1	113	23	1.62	< 10	< 10	0.08	10	0.09	50
TR9824 70-72	205	294	15	< 0.2	0.50	314	120	< 0.5	< 2	0.04	0.5	1	88	17	1.28	< 10	< 10	0.10	10	0.15	45
TR9824 72-74	205	294	60	0.2	0.37	604	120	< 0.5	< 2	0.03	1.0	1	77	20	1.83	< 10	< 10	0.10	10	0.09	50
TR9824 74-76	205	294	110	1.6	0.35	3050	220	< 0.5	2	0.07	1.0	1	91	32	1.56	< 10	< 10	0.11	10	0.11	100
TR9824 76-78	205	294	130	1.2	0.26	764	160	< 0.5	2	0.04	0.5	1	113	28	1.40	< 10	< 10	0.10	10	0.03	40
TR9824 78-80	205	294	205	2.8	0.32	1340	120	< 0.5	2	0.06	0.5	2	104	51	3.69	< 10	< 10	0.08	10	0.03	115
TR9824 80-82	205	294	235	2.4	0.68	662	200	< 0.5	< 2	0.05	< 0.5	1	78	49	2.18	< 10	< 10	0.15	10	0.23	110
TR9824 82-84	205	294	45	1.6	0.68	340	170	< 0.5	< 2	0.04	< 0.5	3	74	34	2.34	< 10	< 10	0.12	10	0.26	245
TR9824 84-86	205	294	40	3.6	0.68	602	190	< 0.5	2	0.03	1.0	6	69	63	1.90	< 10	10	0.14	10	0.22	440
TR9824 86-88	205	294	120	5.2	1.11	606	210	< 0.5	< 2	0.06	2.0	7	66	106	2.41	< 10	10	0.16	10	0.30	480
TR9824 88-90	205	294	285	6.0	0.72	6040	200	< 0.5	8	0.05	8.0	5	79	79	2.47	< 10	< 10	0.12	10	0.25	210
TR9824 90-92	205	294	285	20.8	0.55	4520	160	< 0.5	8	0.09	11.5	6	84	45	2.96	< 10	30	0.12	10	0.16	5570
TR9824 92-94	205	294	35	6.6	0.38	180	130	< 0.5	2	0.14	8.0	6	83	26	2.60	< 10	20	0.10	10	0.13	6940
TR9825 D1	205	294	70	0.6	2.18	230	130	< 0.5	2	2.34	15.0	35	80	169	4.94	< 10	10	0.14	30	0.98	890
TR9825 D2	205	294	85	0.8	0.62	332	190	< 0.5	< 2	0.09	1.5	5	113	55	1.95	< 10	< 10	0.14	10	0.23	185
TR9825 0-2	205	294	< 5	1.0	0.66	68	210	< 0.5	< 2	0.19	< 0.5	2	121	21	1.65	< 10	< 10	0.09	< 10	0.27	120
TR9825 2-4	205	294	< 5	1.8	0.59	102	150	< 0.5	< 2	0.34	< 0.5	1	104	28	2.18	< 10	10	0.09	< 10	0.22	125
TR9825 4-6	205	294	< 5	0.6	0.67	50	130	< 0.5	< 2	0.12	< 0.5	1	130	11	1.54	< 10	< 10	0.08	< 10	0.27	110
TR9825 6-8	205	294	< 5	0.8	0.56	68	190	< 0.5	< 2	0.18	0.5	1	128	9	1.31	< 10	10	0.11	10	0.19	75
TR9825 8-10	205	294	45	1.4	0.66	106	290	< 0.5	< 2	0.49	2.0	1	160	15	1.86	< 10	10	0.12	10	0.20	125
TR9825 10-12	205	294	< 5	1.6	0.71	78	360	< 0.5	< 2	0.46	1.5	1	125	13	1.37	< 10	10	0.13	10	0.23	100
TR9825 12-14	205	294	< 5	1.2	0.67	46	320	< 0.5	< 2	0.38	1.5	2	172	17	1.23	< 10	30	0.15	10	0.16	80
TR9825 14-16	205	294	130	0.6	1.87	150	130	< 0.5	6	0.79	12.0	23	101	121	4.50	< 10	10	0.09	10	0.95	615
TR9825 16-18	205	294	1365	0.8	3.82	106	460	0.5	40	4.45	11.5	25	77	96	3.47	< 10	10	0.15	30	1.06	770
TR9825 18-20	205	294	65	0.4	3.00	88	200	0.5	2	4.57	5.5	20	48	62	2.51	< 10	10	0.25	20	0.53	605
TR9825 20-22	205	294	95	0.4	3.34	96	230	0.5	6	5.44	2.5	16	53	62	2.60	< 10	< 10	0.29	20	0.60	550
TR9825 22-24	205	294	75	0.4	3.33	160	520	0.5	2	9.61	6.0	14	47	48	2.41	< 10	< 10	0.19	10	0.80	805
TR9825 24-26	205	294	< 5	< 0.2	0.35	96	30	< 0.5	2	>15.00	2.0	1	11	11	0.80	< 10	< 10	0.06	< 10	0.29	445
TR9825 26-28	205	294	25	0.2	1.28	26	190	< 0.5	2	>15.00	9.5	5	32	19	1.06	< 10	10	0.14	< 10	0.62	845
TR9825 28-30	205	294	30	0.8	2.16	146	140	0.5	2	2.94	7.0	15	56	59	3.87	< 10	< 10	0.20	30	1.19	680
TR9825 30-32	205	294	5	1.0	1.19	44	200	< 0.5	2	0.39	4.0	6	104	48	3.18	< 10	< 10	0.21	30	0.60	330
TR9825 32-34	205	294	< 5	2.2	0.60	42	210	< 0.5	< 2	0.07	1.5	1	77	20	1.61	< 10	< 10	0.14	10	0.29	215
TR9825 34-36	205	294	25	7.2	0.67	182	230	< 0.5	< 2	0.14	7.0	9	100	79	7.11	< 10	40	0.15	10	0.17	7830
TR9825 37	205	294	5	1.4	0.66	124	200	< 0.5	< 2	0.16	2.0	5	99	39	2.63	< 10	< 10	0.14	20	0.26	225
TR9825 39	205	294	45	2.2	1.30	240	200	< 0.5	< 2	0.21	3.0	7	84	56	3.06	< 10	10	0.20	30	0.67	300

CERTIFICATION: Hartfichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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To: VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
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CERTIFICATE OF ANALYSIS A9830457

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
TR9824 58-60B	205	294	4	< 0.01	8	220	16	8	< 1	18	< 0.01	< 10	< 10	16	< 10	48
TR9824 60-62	205	294	3	< 0.01	18	260	10	6	1	25	< 0.01	< 10	< 10	19	< 10	64
TR9824 62-64	205	294	2	< 0.01	32	220	6	2	1	17	< 0.01	< 10	< 10	20	< 10	72
TR9824 64-66	205	294	< 1	< 0.01	34	250	6	2	1	10	< 0.01	< 10	< 10	10	< 10	60
TR9824 66-68	205	294	1	< 0.01	20	160	4	2	< 1	6	< 0.01	< 10	< 10	6	< 10	36
TR9824 68-70	205	294	2	0.01	22	220	54	4	< 1	15	< 0.01	< 10	< 10	9	< 10	88
TR9824 70-72	205	294	< 1	< 0.01	13	200	2	6	< 1	13	< 0.01	< 10	< 10	9	< 10	46
TR9824 72-74	205	294	2	< 0.01	13	170	60	8	< 1	12	< 0.01	< 10	< 10	8	< 10	104
TR9824 74-76	205	294	1	< 0.01	7	120	442	4	1	21	< 0.01	< 10	< 10	12	< 10	76
TR9824 76-78	205	294	2	< 0.01	6	110	230	8	< 1	12	< 0.01	< 10	< 10	8	< 10	78
TR9824 78-80	205	294	3	< 0.01	15	400	220	12	< 1	14	< 0.01	< 10	< 10	10	< 10	274
TR9824 80-82	205	294	1	< 0.01	14	250	30	2	1	32	< 0.01	< 10	< 10	17	< 10	132
TR9824 82-84	205	294	3	< 0.01	20	270	80	6	1	26	< 0.01	< 10	< 10	18	< 10	248
TR9824 84-86	205	294	1	< 0.01	22	140	184	2	1	13	< 0.01	< 10	< 10	13	< 10	228
TR9824 86-88	205	294	1	< 0.01	32	210	308	2	2	15	< 0.01	< 10	< 10	20	< 10	266
TR9824 88-90	205	294	2	< 0.01	26	110	138	4	1	13	< 0.01	< 10	< 10	17	< 10	358
TR9824 90-92	205	294	1	< 0.01	25	200	2910	8	1	18	< 0.01	< 10	< 10	13	< 10	764
TR9824 92-94	205	294	1	< 0.01	19	270	1120	2	1	22	< 0.01	< 10	< 10	10	< 10	726
TR9825 D1	205	294	5	0.02	184	540	18	< 2	4	126	0.08	< 10	< 10	30	< 10	896
TR9825 D2	205	294	2	< 0.01	19	230	16	6	1	36	< 0.01	< 10	< 10	14	< 10	112
TR9825 0-2	205	294	9	0.01	15	440	12	2	< 1	40	< 0.01	< 10	< 10	62	< 10	52
TR9825 2-4	205	294	11	< 0.01	14	2760	18	4	1	89	< 0.01	< 10	< 10	58	< 10	48
TR9825 4-6	205	294	8	0.01	14	680	12	2	< 1	55	< 0.01	< 10	< 10	48	< 10	34
TR9825 6-8	205	294	11	0.01	11	1220	8	< 2	< 1	51	< 0.01	< 10	< 10	69	< 10	34
TR9825 8-10	205	294	7	< 0.01	14	3780	12	2	1	156	< 0.01	< 10	< 10	71	< 10	42
TR9825 10-12	205	294	6	0.01	13	2480	10	2	1	114	< 0.01	< 10	< 10	66	< 10	36
TR9825 12-14	205	294	7	0.01	12	1750	12	2	1	73	< 0.01	< 10	< 10	104	< 10	40
TR9825 14-16	205	294	5	0.01	102	570	8	< 2	4	57	0.13	< 10	< 10	31	< 10	606
TR9825 16-18	205	294	2	0.15	91	520	6	< 2	3	217	0.11	< 10	< 10	33	< 10	460
TR9825 18-20	205	294	4	0.23	41	380	12	2	2	211	0.11	< 10	< 10	21	10	218
TR9825 20-22	205	294	2	0.24	34	280	12	< 2	3	740	0.10	< 10	< 10	21	< 10	146
TR9825 22-24	205	294	2	0.21	31	270	16	< 2	3	407	0.09	< 10	< 10	22	< 10	202
TR9825 24-26	205	294	< 1	< 0.01	8	320	18	2	1	1365	< 0.01	< 10	< 10	4	< 10	90
TR9825 26-28	205	294	< 1	0.05	11	410	16	< 2	1	886	0.03	< 10	< 10	9	< 10	172
TR9825 28-30	205	294	3	0.01	47	400	6	< 2	3	88	0.03	< 10	< 10	23	< 10	274
TR9825 30-32	205	294	5	< 0.01	28	810	6	4	1	34	< 0.01	< 10	< 10	41	< 10	172
TR9825 32-34	205	294	< 1	< 0.01	9	220	94	2	< 1	23	< 0.01	< 10	< 10	14	< 10	96
TR9825 34-36	205	294	5	< 0.01	33	510	418	12	1	55	< 0.01	< 10	< 10	13	< 10	622
TR9825 37	205	294	3	< 0.01	26	550	52	10	1	34	< 0.01	< 10	< 10	17	< 10	164
TR9825 39	205	294	3	< 0.01	34	370	66	4	2	26	< 0.01	< 10	< 10	23	< 10	240

CERTIFICATION: Ian Kirkham

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : MCQUESTER
Comments: ATTN: RICK DIMENT

Page Number :3-A
Total Pages :3
Certificate Date: 20-SEP-1998
Invoice No. :I9830457
P.O. Number :
Account :OQN

CERTIFICATE OF ANALYSIS A9830457

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm
TR9825 41	205	294	10	0.4	0.93	70	250	< 0.5	< 2	0.11	1.5	5	136	36	2.01	< 10	< 10	0.16	10	0.37	175
TR9825 43	205	294	10	0.6	0.85	134	240	< 0.5	< 2	0.09	1.5	6	105	49	2.10	< 10	< 10	0.17	10	0.32	180
TR9825 45	205	294	160	1.0	0.73	436	250	< 0.5	< 2	0.11	2.5	6	147	68	2.46	< 10	< 10	0.18	10	0.26	180
TR9825 47	205	294	20	0.2	0.82	576	260	< 0.5	< 2	0.08	2.0	6	183	96	2.75	< 10	< 10	0.20	10	0.29	185
TR9825 49	205	294	25	3.0	1.07	260	300	< 0.5	< 2	0.08	2.0	7	129	115	2.64	< 10	< 10	0.22	20	0.34	205
TR9825 51	205	294	60	2.4	0.86	242	250	< 0.5	< 2	0.05	2.0	6	128	56	2.50	< 10	20	0.17	10	0.28	175
TR9825 53	205	294	30	2.2	0.92	548	270	< 0.5	< 2	0.15	2.5	5	132	108	3.00	< 10	10	0.19	10	0.30	430
TR9825 55	205	294	15	1.4	0.83	404	300	< 0.5	< 2	0.06	1.5	5	120	68	2.23	< 10	< 10	0.18	10	0.27	130
TR9825 56-58	205	294	185	1.0	0.83	2460	310	< 0.5	< 2	0.10	3.0	4	108	98	2.59	< 10	< 10	0.18	10	0.28	220
TR9825 58-60	205	294	25	1.0	1.12	430	330	< 0.5	< 2	0.06	1.5	9	121	91	2.26	< 10	< 10	0.21	10	0.39	250
TR9825 60-62	205	294	55	2.6	0.86	882	290	< 0.5	8	0.07	1.5	4	118	105	2.02	< 10	< 10	0.16	10	0.30	230
TR9825 62-64	205	294	1855	1.4	1.05	1255	380	< 0.5	36	0.12	4.0	4	91	116	3.76	< 10	< 10	0.21	10	0.75	295
TR9825 64-66	205	294	170	1.2	1.14	1385	220	< 0.5	6	0.45	6.5	16	84	247	4.10	< 10	40	0.12	10	0.62	1130
TR9825 67	205	294	85	0.4	0.56	130	180	< 0.5	2	0.08	0.5	3	140	19	0.99	< 10	< 10	0.11	10	0.13	60
TR9825 69	205	294	< 5	0.2	0.39	166	130	< 0.5	< 2	0.04	0.5	2	172	14	0.80	< 10	< 10	0.08	10	0.12	55
TR9825 70-72	205	294	10	< 0.2	0.46	278	130	< 0.5	< 2	0.05	1.0	3	191	19	1.18	< 10	< 10	0.09	10	0.14	65
TR9825 72-74	205	294	5	0.2	0.59	282	160	< 0.5	< 2	0.08	1.0	5	137	36	1.15	< 10	< 10	0.09	10	0.22	145
TR9825 74-76	205	294	20	< 0.2	0.60	280	170	< 0.5	< 2	0.09	< 0.5	3	156	25	1.42	< 10	< 10	0.11	10	0.22	110
TR9825 76-78	205	294	85	0.8	0.48	1560	220	< 0.5	< 2	0.15	1.5	3	144	26	1.71	< 10	< 10	0.13	10	0.11	145
TR9825 78-80	205	294	10	< 0.2	0.19	182	80	< 0.5	< 2	0.02	< 0.5	1	197	5	0.54	< 10	< 10	0.05	< 10	0.05	25
TR9825 80-82	205	294	40	0.6	0.29	422	90	< 0.5	< 2	0.04	0.5	1	201	13	1.23	< 10	< 10	0.07	10	0.09	60
TR9825 82-84	205	294	10	< 0.2	0.55	228	390	< 0.5	< 2	0.04	< 0.5	1	251	13	0.96	< 10	< 10	0.21	10	0.07	35
TR9825 85	205	294	30	< 0.2	0.48	322	260	< 0.5	< 2	0.03	0.5	3	211	21	0.77	< 10	< 10	0.13	10	0.11	55
TR9825 86-88	205	294	< 5	< 0.2	0.30	70	140	< 0.5	< 2	0.08	< 0.5	1	179	5	0.42	< 10	< 10	0.08	< 10	0.07	25
TR9825 88-90	205	294	100	0.2	0.33	2400	150	< 0.5	2	0.10	1.5	5	184	20	1.11	< 10	< 10	0.06	< 10	0.21	60
TR9825 90-92	205	294	10	< 0.2	0.25	354	40	< 0.5	< 2	0.10	0.5	4	333	7	0.77	< 10	< 10	0.03	< 10	0.11	155
TR9825 92-94	205	294	85	0.4	0.41	1010	100	< 0.5	4	0.08	4.0	14	153	73	1.07	< 10	< 10	0.06	< 10	0.25	385
TR9825 94-96	205	294	80	0.4	0.28	1175	110	< 0.5	2	0.04	12.5	9	162	22	0.91	< 10	< 10	0.07	< 10	0.13	165
TR9825 96-98	205	294	65	1.2	0.41	1390	50	< 0.5	2	0.07	2.0	5	161	47	1.97	< 10	< 10	0.03	< 10	0.17	115
TR9825 98-100	205	294	125	1.8	0.51	1310	50	< 0.5	4	0.11	2.0	7	185	79	2.04	< 10	< 10	0.02	< 10	0.15	195

CERTIFICATION: Hartfield

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : MCQUESTER
Comments: ATTN: RICK DIMENT

Page Number :3-B
Total Pages :3
Certificate Date: 20-SEP-1998
Invoice No. :I9830457
P.O. Number :
Account :OQN

CERTIFICATE OF ANALYSIS A9830457

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
TR9825 41	205	294	1	< 0.01	20	250	8	2	1	22	< 0.01	< 10	< 10	20	< 10	94
TR9825 43	205	294	1	< 0.01	21	280	10	2	1	30	< 0.01	< 10	< 10	22	< 10	114
TR9825 45	205	294	2	< 0.01	24	300	16	6	1	45	< 0.01	< 10	< 10	18	< 10	132
TR9825 47	205	294	1	< 0.01	22	250	8	< 2	1	35	< 0.01	< 10	< 10	23	< 10	118
TR9825 49	205	294	1	< 0.01	29	260	142	< 2	1	24	< 0.01	< 10	< 10	22	< 10	246
TR9825 51	205	294	2	< 0.01	24	200	90	6	1	14	< 0.01	< 10	< 10	17	< 10	168
TR9825 53	205	294	1	< 0.01	21	690	84	2	1	42	< 0.01	< 10	< 10	21	< 10	192
TR9825 55	205	294	1	< 0.01	21	200	26	2	1	18	< 0.01	< 10	< 10	17	< 10	168
TR9825 56-58	205	294	1	< 0.01	17	250	8	2	1	23	< 0.01	< 10	< 10	17	< 10	148
TR9825 58-60	205	294	1	< 0.01	31	230	6	6	2	23	< 0.01	< 10	< 10	26	< 10	152
TR9825 60-62	205	294	< 1	< 0.01	19	160	50	6	2	24	< 0.01	< 10	< 10	21	< 10	118
TR9825 62-64	205	294	1	< 0.01	17	260	30	< 2	2	22	0.01	< 10	< 10	30	80	126
TR9825 64-66	205	294	1	< 0.01	70	1490	14	< 2	2	62	< 0.01	< 10	< 10	21	30	330
TR9825 67	205	294	1	0.01	13	270	6	2	< 1	20	< 0.01	< 10	< 10	9	< 10	96
TR9825 69	205	294	1	< 0.01	10	120	2	2	< 1	14	< 0.01	< 10	< 10	7	< 10	68
TR9825 70-72	205	294	1	< 0.01	16	160	2	< 2	1	13	< 0.01	< 10	< 10	8	< 10	92
TR9825 72-74	205	294	1	< 0.01	22	180	< 2	< 2	1	17	< 0.01	< 10	< 10	12	< 10	60
TR9825 74-76	205	294	1	< 0.01	15	270	4	< 2	1	22	< 0.01	< 10	< 10	12	< 10	62
TR9825 76-78	205	294	1	< 0.01	15	3060	8	6	1	53	< 0.01	< 10	< 10	15	< 10	64
TR9825 78-80	205	294	1	< 0.01	7	100	< 2	< 2	< 1	7	< 0.01	< 10	< 10	3	< 10	12
TR9825 80-82	205	294	2	< 0.01	12	140	6	< 2	< 1	10	< 0.01	< 10	< 10	8	< 10	54
TR9825 82-84	205	294	2	< 0.01	9	140	< 2	2	1	19	< 0.01	< 10	< 10	15	< 10	24
TR9825 85	205	294	1	< 0.01	17	110	2	2	1	15	< 0.01	< 10	< 10	10	< 10	40
TR9825 86-88	205	294	1	< 0.01	7	310	4	< 2	< 1	11	< 0.01	< 10	< 10	5	< 10	16
TR9825 88-90	205	294	1	< 0.01	17	200	2	< 2	< 1	13	< 0.01	< 10	< 10	6	< 10	68
TR9825 90-92	205	294	1	< 0.01	15	360	2	< 2	< 1	15	< 0.01	< 10	< 10	4	< 10	68
TR9825 92-94	205	294	1	< 0.01	47	200	16	< 2	1	9	< 0.01	< 10	< 10	8	< 10	194
TR9825 94-96	205	294	1	< 0.01	34	140	6	2	< 1	11	< 0.01	< 10	< 10	6	< 10	300
TR9825 96-98	205	294	2	< 0.01	29	250	26	2	1	11	< 0.01	< 10	< 10	7	< 10	168
TR9825 98-100	205	294	1	< 0.01	50	320	20	< 2	1	12	< 0.01	< 10	< 10	7	< 10	268

CERTIFICATION: Hawthorne

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

A9828863

Comments: ATTN: RICK DIMENT

CERTIFICATE A9828863

(OQN) - VICEROY EXPLORATION (CANADA), INC.

Project: 4341-03
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 31-AUG-1998.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	46	Geochem ring to approx 150 mesh
294	46	4-7 Kg crush and split
3202	46	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	46	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
997	1	Au g/t: 1 assay ton, grav.	FA-GRAVIMETRIC	0.07	1000.0

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : 4341-03
Comments: ATTN: RICK DIMENT

Page :1
Total :2
Certificate Date: 31-AUG-1998
Invoice No. :19828863
P.O. Number :
Account :OQN

CERTIFICATE OF ANALYSIS A9828863

SAMPLE	PREP CODE		Au ppb FA+AA	Au FA g/t
MTR98-22 A	205	294	115	-----
MTR98-22 B	205	294	185	-----
MTR98-22 C	205	294	30	-----
MTR98-22 D	205	294	>10000	26.78
TR98-22 D1	205	294	205	-----
TR98-22 D2	205	294	25	-----
TR98-22 0-2	205	294	25	-----
TR98-22 2-4	205	294	20	-----
TR98-22 4-6	205	294	75	-----
TR98-22 6-8	205	294	110	-----
TR98-22 8-10	205	294	110	-----
TR98-22 10-12	205	294	95	-----
TR98-22 12-14	205	294	35	-----
TR98-22 14-16	205	294	20	-----
TR98-22 16-18	205	294	385	-----
TR98-22 18-20	205	294	75	-----
TR98-22 20-22	205	294	90	-----
TR98-22 22-24	205	294	65	-----
TR98-22 24-26	205	294	170	-----
TR98-22 26-28	205	294	50	-----
TR98-22 28-30	205	294	185	-----
TR98-22 30-32	205	294	2090	-----
TR98-22 56-58	205	294	15	-----
TR98-22 58-60	205	294	15	-----
TR98-22 60-62	205	294	260	-----
TR98-22 62-64	205	294	1610	-----
TR98-22 64-66	205	294	755	-----
TR98-22 66-68	205	294	610	-----
TR98-22 68-70	205	294	6810	-----
TR98-22 70-72	205	294	590	-----
TR98-22 72-74	205	294	490	-----
TR98-22 74	205	294	20	-----
TR98-22 76	205	294	15	-----
TR98-22 78	205	294	15	-----
TR98-22 80	205	294	< 5	-----
TR98-22 82-84	205	294	5	-----
TR98-22 84-86	205	294	10	-----
TR98-22 86-88	205	294	10	-----
TR98-22 88-90	205	294	175	-----
TR98-23 1-2	205	294	10	-----

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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British Columbia, Canada V7J 2C1
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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : 4341-03
Comments: ATTN: RICK DIMENT

Page :2
Total :2
Certificate Date: 31-AUG-1998
Invoice No. : I9828863
P.O. Number :
Account :OQN

CERTIFICATE OF ANALYSIS A9828863

SAMPLE	PREP CODE	Au ppb FA+AA	Au FA g/t
TR98-23 2-4	205 294	225	-----
TR98-23 4-6	205 294	180	-----
TR98-23 6-8	205 294	305	-----
TR98-23 8-10	205 294	15	-----
TR98-23 10-12	205 294	65	-----
TR98-23 12-14	205 294	1300	-----

CERTIFICATION: Mark Vinh

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

A9826107

Comments: ATTN: RICK DIMENT

CERTIFICATE A9826107

(OQN) - VICEROY EXPLORATION (CANADA), INC. *

Project: 4341-03
P.O. # : P1

Samples submitted to our lab in Vancouver, BC.
This report was printed on 31-JUL-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	36	Geochem ring to approx 150 mesh
294	36	4-7 Kg crush and split
3202	36	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	36	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : 4341-03
Comments: ATTN: RICK DIMENT

Page :1
Total Pages :1
Certificate Date: 31-JUL-98
Invoice No. :19826107
P.O. Number :P1
Account :OQN

CERTIFICATE OF ANALYSIS A9826107

SAMPLE	PREP CODE		Au ppb FA+AA
TR9819 A	205	294	180
TR9819 B	205	294	10
TR9819 C	205	294	40
TR9819 D	205	294	5
TR9819 E	205	294	< 5
TR9819 F	205	294	20
TR9819 G	205	294	325
TR9819 H	205	294	1030
TR9819 20-22	205	294	55
TR9819 22-24	205	294	15
TR9819 24-26	205	294	10
TR9819 26-28	205	294	< 5
TR9819 28-30	205	294	< 5
TR9819 30-32	205	294	< 5
TR9819 32-34	205	294	5
TR9819 34-36	205	294	10
TR9819 36	205	294	5
TR9819 36-38	205	294	5
TR9819 38	205	294	10
TR9819 38-40	205	294	10
TR9819 40	205	294	15
TR9819 42	205	294	110
TR9819 44	205	294	40
TR9819 46	205	294	30
TR9819 48	205	294	40
TR9819 50	205	294	15
TR9819 60-62	205	294	1890
TR9819 62-64	205	294	2750
TR9819 64-66	205	294	130
TR9819 66-68	205	294	95
TR9819 68-70	205	294	15
TR9819 70-72	205	294	60
TR9819 72-74	205	294	10
TR9819 74-76	205	294	15
TR9819 76-78	205	294	265
TR9819 78-80	205	294	445

CERTIFICATION: Thanh Vinh

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

A9826105

Comments: ATTN: RICK DIMENT

CERTIFICATE A9826105

(OQN) - VICEROY EXPLORATION (CANADA), INC. *

Project: 4341-03 TR98-20
P.O. # : P1

Samples submitted to our lab in Vancouver, BC.
This report was printed on 31-JUL-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	20	Geochem ring to approx 150 mesh
294	20	4-7 Kg crush and split
3202	20	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	20	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : 4341-03 TR98-20
Comments: ATTN: RICK DIMENT

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Total :1
Certificate: 31-JUL-98
Invoice No. : I9826105
P.O. Number : P1
Account : OQN

CERTIFICATE OF ANALYSIS A9826105

SAMPLE	PREP CODE	Au ppb FA+AA
TR9820 10	205 294	45
TR9820 12	205 294	20
TR9820 14	205 294	10
TR9820 16	205 294	5
TR9820 18	205 294	10
TR9820 20	205 294	< 5
TR9820 22	205 294	20
TR9820 24	205 294	25
TR9820 26	205 294	10
TR9820 28	205 294	25
TR9820 30	205 294	70
TR9820 32	205 294	15
TR9820 34	205 294	10
TR9820 66	205 294	< 5
TR9820 68	205 294	15
TR9820 70	205 294	< 5
TR9820 72	205 294	25
TR9820 74	205 294	25
TR9820 D1	205 294	15
TR9820 D2	205 294	20

CERTIFICATION: Frank Vonk

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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

A9826104

Comments: ATTN: RICK DIMENT

CERTIFICATE A9826104

(OQN) - VICEROY EXPLORATION (CANADA), INC.

Project: 4341-03 MTR98-20
P.O. # : P1

Samples submitted to our lab in Vancouver, BC.
This report was printed on 31-JUL-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	6	Geochem ring to approx 150 mesh
294	6	4-7 Kg crush and split
3202	6	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	6	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

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VICEROY EXPLORATION (CANADA), INC

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Y1A 4L2

Project : 4341-03 MTR98-20
Comments: ATTN: RICK DIMENT

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Certifica. ate: 31-JUL-98
Invoice No. :I9826104
P.O. Number :P1
Account :OQN

CERTIFICATE OF ANALYSIS A9826104

SAMPLE	PREP CODE		Au ppb FA+AA
MTR9820 A	205	294	110
MTR9820 B	205	294	30
MTR9820 C	205	294	45
MTR9820 D	205	294	90
MTR9820 E	205	294	210
MTR9820 F	205	294	40

CERTIFICATION: _____

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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

A9826103

Comments: ATTN: RICK DIMENT

CERTIFICATE A9826103

(OQN) - VICEROY EXPLORATION (CANADA), INC. *

Project: 4341-03 MTR98-21
P.O. # : P1

Samples submitted to our lab in Vancouver, BC.
This report was printed on 31-JUL-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	4	Geochem ring to approx 150 mesh
294	4	4-7 Kg crush and split
3202	4	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	4	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

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VICEROY EXPLORATION (CANADA), INC

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Project : 4341-03 MTR98-21
Comments: ATTN: RICK DIMENT

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P.O. Number : P1
Account : OQN

CERTIFICATE OF ANALYSIS A9826103

SAMPLE	PREP CODE		Au ppb FA+AA
MTR9821 A	205	294	50
MTR9821 B	205	294	180
MTR9821 C	205	294	5
MTR9821 D	205	294	1000

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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

A9826102

Comments: ATTN: RICK DIMENT

CERTIFICATE A9826102

(OQN) - VICEROY EXPLORATION (CANADA), INC.

Project: 4341-03 TR98-21
P.O. # : P1

Samples submitted to our lab in Vancouver, BC.
This report was printed on 31-JUL-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	6	Geochem ring to approx 150 mesh
294	6	4-7 Kg crush and split
3202	6	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	6	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

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VICEROY EXPLORATION (CANADA), INC

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Project : 4341-03 TR98-21
Comments: ATTN: RICK DIMENT

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Certificate: 31-JUL-98
Invoice No. :19826102
P.O. Number :P1
Account :OQN

CERTIFICATE OF ANALYSIS A9826102

SAMPLE	PREP CODE		Au ppb FA+AA
TR9821 20-22	--	--	NotRcd
TR9821 22-24	205	294	415
TR9821 24-26	205	294	15
TR9821 26-28	205	294	15
TR9821 28-30	205	294	35
TR9821 30-32	205	294	155
TR9821 32-34	205	294	260

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A9826101

Comments: ATTN: RICK DIMENT

CERTIFICATE A9826101

(OQN) - VICEROY EXPLORATION (CANADA), INC. *

Project: 4341-03 MTR98-16
P.O. # : P1

Samples submitted to our lab in Vancouver, BC.
This report was printed on 31-JUL-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	7	Geochem ring to approx 150 mesh
294	7	4-7 Kg crush and split
3202	7	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	7	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

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Project : 4341-03 MTR98-16
Comments: ATTN: RICK DIMENT

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Invoice No. :19826101
P.O. Number :P1
Account :OQN

CERTIFICATE OF ANALYSIS A9826101

SAMPLE	PREP CODE	Au ppb FA+AA
MTR9816 A	205 294	495
MTR9816 B	205 294	350
MTR9816 C	205 294	1215
MTR9816 D	205 294	30
MTR9816 E	205 294	430
MTR9816 F	205 294	1295
MTR9816 G	205 294	145

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VICEROY EXPLORATION (CANADA), INC

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A9826100

Comments: ATTN: RICK DIMENT

CERTIFICATE A9826100

(OQN) - VICEROY EXPLORATION (CANADA), INC. *

Project: 4341-03 TR98-15
P.O. # : P1

Samples submitted to our lab in Vancouver, BC.
This report was printed on 31-JUL-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	40	Geochem ring to approx 150 mesh
294	40	4-7 Kg crush and split
3202	40	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	40	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

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VICEROY EXPLORATION (CANADA), INC

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Y1A 4L2

Project : 4341-03 TR98-15
Comments: ATTN: RICK DIMENT

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Invoice No. :I9826100
P.O. Number :P1
Account :OQN

CERTIFICATE OF ANALYSIS A9826100

SAMPLE	PREP CODE	Au ppb FA+AA
TR9815 0-2	205 294	155
TR9815 2-4	205 294	340
TR9815 4-6	205 294	145
TR9815 6-8	205 294	10
TR9815 8-10	205 294	< 5
TR9815 10-12	205 294	20
TR9815 12-14	205 294	125
TR9815 14-16	205 294	55
TR9815 16-18	205 294	80
TR9815 18-20	205 294	180
TR9815 20-22	205 294	255
TR9815 22-24	205 294	465
TR9815 24-26	205 294	190
TR9815 26-28	205 294	190
TR9815 28-30	205 294	1410
TR9815 30-32	205 294	195
TR9815 44-46	205 294	25
TR9815 46	205 294	15
TR9815 48	205 294	80
TR9815 50	205 294	< 5
TR9815 52	205 294	25
TR9815 54	205 294	100
TR9815 56	205 294	35
TR9815 58	205 294	40
TR9815 60	205 294	1830
TR9815 62	205 294	140
TR9815 64	205 294	20
TR9815 66	205 294	15
TR9815 68	205 294	20
TR9815 70	205 294	25
TR9815 72	205 294	50
TR9815 74	205 294	65
TR9815 76	205 294	65
TR9815 78	205 294	360
TR9815 80	205 294	85
TR9815 82	205 294	1030
TR9815 84	205 294	310
TR9815 86	205 294	1685
TR9815 88	205 294	30
TR9815 90	205 294	45

CERTIFICATION: Barb Vinden

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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

A9826099

Comments: ATTN: RICK DIMENT

CERTIFICATE A9826099

(OQN) - VICEROY EXPLORATION (CANADA), INC.

Project: 4341-03 MTR98-15
P.O. # : P1

Samples submitted to our lab in Vancouver, BC.
This report was printed on 31-JUL-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	9	Geochem ring to approx 150 mesh
294	9	4-7 Kg crush and split
3202	9	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	9	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

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VICEROY EXPLORATION (CANADA), INC

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Y1A 4L2

Project : 4341-03 MTR98-15
Comments: ATTN: RICK DIMENT

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Certifica. ate: 31-JUL-98
Invoice No. :I9826099
P.O. Number :P1
Account :OQN

CERTIFICATE OF ANALYSIS A9826099

SAMPLE	PREP CODE	Au ppb FA+AA
MTR9815 A	205 294	485
MTR9815 B	205 294	25
MTR9815 C	205 294	65
MTR9815 D A	205 294	90
MTR9815 D B	205 294	255
MTR9815 E	205 294	15
MTR9815 F	205 294	575
MTR9815 G	205 294	470
MTR9815 H	205 294	25

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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

A9826098

Comments: ATTN: RICK DIMENT

CERTIFICATE A9826098

(OQN) - VICEROY EXPLORATION (CANADA), INC. *

Project: 4341-03
P.O. # : P1

Samples submitted to our lab in Vancouver, BC.
This report was printed on 2-AUG-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	60	Geochem ring to approx 150 mesh
294	60	4-7 Kg crush and split
3202	60	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	60	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
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Y1A 4L2

Project : 4341-03
Comments: ATTN: RICK DIMENT

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Certifica.. ate: 02-AUG-98
Invoice No. :I9826098
P.O. Number :P1
Account :OQN

CERTIFICATE OF ANALYSIS A9826098

SAMPLE	PREP CODE		Au ppb FA+AA
DTR9817 A	205	294	20
DTR9817 B	205	294	1600
DTR9817 C	205	294	5
DTR9817 D	205	294	95
DTR9817 D1	--	--	NotRcd
DTR9817 D2	205	294	40
DTR9817 D3	205	294	< 5
DTR9817 E	205	294	100
DTR9817 F	205	294	425
DTR9817 G	205	294	260
DTR9817 H	205	294	< 5
DTR9817 I	205	294	120
DTR9817 J	205	294	< 5
DTR9817 K	205	294	880
DTR9817 L	205	294	1895
TR9817 54	205	294	110
TR9817 56	205	294	640
TR9817 58	205	294	425
TR9817 60	205	294	295
TR9817 62	205	294	160
TR9817 64	205	294	20
TR9817 66	205	294	20
TR9817 68	205	294	20
TR9817 70	205	294	25
TR9817 72	205	294	25
TR9817 74	205	294	25
TR9817 76	205	294	65
TR9817 78	205	294	15
TR9817 80	205	294	< 5
TR9817 82	205	294	165
TR9817 84	205	294	1020
TR9817 86	205	294	345
TR9817 88	205	294	480
TR9817 90	205	294	50
TR9817 92	205	294	35
TR9817 94	205	294	10
TR9817 96	205	294	10
TR9817 98	205	294	95
TR9817 100	205	294	725
TR9817 102	205	294	515

CERTIFICATION:

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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : 4341-03
Comments: ATTN: RICK DIMENT

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Total I :2
Certifica. ate: 02-AUG-98
Invoice No. :19826098
P.O. Number :P1
Account :OQN

CERTIFICATE OF ANALYSIS A9826098

SAMPLE	PREP CODE		Au ppb FA+AA
TR9817 50-52	205	294	55
TR9817 52-54	205	294	65
TR9817 54-56	205	294	380
TR9817 56-58	205	294	240
TR9817 58-60	205	294	530
TR9817 70-72	205	294	75
TR9817 72-74	205	294	10
TR9817 74-76	205	294	150
TR9817 76-78	205	294	90
TR9817 78-80	205	294	130
TR9817 80-82	205	294	165
TR9817 82-84	205	294	380
TR9817 84-86	205	294	720
TR9817 86-88	205	294	335
TR9817 88-90	205	294	295
TR9817 90-92	205	294	35
TR9817 92-94	205	294	20
TR9817 94-96	205	294	10
TR9817 96-98	205	294	15
TR9817 98-100	205	294	75
TR9817 100-102	205	294	550

CERTIFICATION:

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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

A9826096

Comments: ATTN: RICK DIMENT

CERTIFICATE A9826096

(OQN) - VICEROY EXPLORATION (CANADA), INC. *

Project: 4341-03 TR9818
P.O. # : P1

Samples submitted to our lab in Vancouver, BC.
This report was printed on 2-AUG-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	70	Geochem ring to approx 150 mesh
294	70	4-7 Kg crush and split
3202	70	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	70	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
997	1	Au g/t: 1 assay ton, grav.	FA-GRAVIMETRIC	0.07	1000.0

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VICEROY EXPLORATION (CANADA), INC

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Y1A 4L2

Project : 4341-03 TR9818
Comments: ATTN: RICK DIMENT

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Total :2
Certificate: 02-AUG-98
Invoice No. :I9826096
P.O. Number :P1
Account :OQN

CERTIFICATE OF ANALYSIS A9826096

SAMPLE	PREP CODE	Au ppb FA+AA	Au FA g/t
TR9818 D1	205 294	155	-----
TR9818 D2	205 294	210	-----
TR9818 F	205 294	105	-----
TR9818 G	205 294	10	-----
TR9818 H	205 294	< 5	-----
TR9818 I	205 294	30	-----
TR9818 J	205 294	150	-----
TR9818 K	205 294	2370	-----
TR9818 L	205 294	190	-----
TR9818 M	205 294	215	-----
TR9818 N	205 294	250	-----
TR9818 O	205 294	>10000	14.57
TR9818 P	205 294	7680	-----
TR9818 Q	205 294	360	-----
TR9818 R	205 294	20	-----
TR9818 S	205 294	280	-----
TR9818 20-22	205 294	120	-----
TR9818 48-50	205 294	5	-----
TR9818 60-62	205 294	15	-----
TR9818 62-64	205 294	10	-----
TR9818 64-66	205 294	10	-----
TR9818 66-68	205 294	10	-----
TR9818 68-70	205 294	15	-----
TR9818 70-72	205 294	10	-----
TR9818 72-74	205 294	10	-----
TR9818 74-76	205 294	40	-----
TR9818 76-78	205 294	10	-----
TR9818 78-80	205 294	45	-----
TR9818 80-82	205 294	295	-----
TR9818 82-84	205 294	20	-----
TR9818 84-86	205 294	10	-----
TR9818 86-88	205 294	240	-----
TR9818 88-90	205 294	10	-----
TR9818 90-92	205 294	20	-----
TR9818 92-94	205 294	1185	-----
TR9818 94-96	205 294	195	-----
TR9818 96-98	205 294	10	-----
TR9818 98-100	205 294	5	-----
TR9818 110-110.4	205 294	45	-----
TR9818 110.4-112	205 294	130	-----

CERTIFICATION:

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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : 4341-03 TR9818
Comments: ATTN: RICK DIMENT

Certificate: 02-AUG-98
Invoice No. : I9826096
P.O. Number : P1
Account : OQN

CERTIFICATE OF ANALYSIS A9826096

SAMPLE	PREP CODE		Au ppb FA+AA	Au FA g/t
TR9818 112-114	205	294	1440	-----
TR9818 114-115.6	205	294	60	-----
TR9818 115.6-117	205	294	50	-----
TR9818 117-118.4	205	294	60	-----
9818 118.4-119.2	205	294	230	-----
TR9818 119.2-121	205	294	60	-----
TR9818 121-122	205	294	20	-----
TR9818 122-124	205	294	10	-----
TR9818 124-126	205	294	75	-----
TR9818 126-127.5	205	294	170	-----
TR9818 127.5-129	205	294	390	-----
TR9818 129-130	205	294	270	-----
TR9818 130-132	205	294	460	-----
TR9818 132-134	205	294	480	-----
TR9818 134-136	205	294	125	-----
TR9818 136-136.8	205	294	3090	-----
9818 136.8-137.8	205	294	265	-----
9818 137.8-138.5	205	294	35	-----
TR9818 138.5-139	205	294	215	-----
TR9818 139-140	205	294	30	-----
TR9818 140-140.3	205	294	20	-----
9818 140.3-140.6	205	294	30	-----
9818 140.6-141.1	205	294	435	-----
9818 141.1-142.3	205	294	330	-----
9818 142.3-143.5	205	294	755	-----
9819 143.5-144.4	205	294	105	-----
9819 144.4-144.9	205	294	< 5	-----
9819 144.9-146	205	294	< 5	-----
TR9819 146-148	205	294	10	-----
TR9819 148-150	205	294	20	-----

CERTIFICATION:

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Analytical Chemists * Geochemists * Registered Assayers
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PHONE: 604-984-0221 FAX: 604-984-0218

VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

A9826094

Comments: ATTN: RICK DIMENT

CERTIFICATE A9826094

(OQN) - VICEROY EXPLORATION (CANADA), INC.

Project: 4341-03 TR98-16
P.O. # : P1

Samples submitted to our lab in Vancouver, BC.
This report was printed on 31-JUL-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	40	Geochem ring to approx 150 mesh
294	40	4-7 Kg crush and split
3202	40	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	40	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
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Y1A 4L2

Project : 4341-03 TR98-16
Comments: ATTN: RICK DIMENT

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Total P :2
Certifica. ate: 31-JUL-98
Invoice No. :19826094
P.O. Number :P1
Account :OQN

CERTIFICATE OF ANALYSIS A9826094

SAMPLE	PREP CODE		Au ppb FA+AA
TR98-16 0-2	205	294	640
TR98-16 2-4	205	294	145
TR98-16 4-6	205	294	440
TR98-16 6-8	205	294	355
TR98-16 8-10	205	294	500
TR98-16 10-12	205	294	990
TR98-16 12-14	205	294	455
TR98-16 14-16	205	294	90
TR98-16 16-18	205	294	155
TR98-16 18-20	205	294	30
TR98-16 20-22	205	294	40
TR98-16 22-24	205	294	15
TR98-16 24-26	205	294	235
TR98-16 26-28	205	294	125
TR98-16 28-30	205	294	210
TR98-16 30-32	205	294	80
TR98-16 32-34	205	294	200
TR98-16 34-36	205	294	420
TR98-16 36-38	205	294	300
TR98-16 38-40	205	294	80
TR98-16 40-42	205	294	95
TR98-16 42-44	205	294	45
TR98-16 44-46	205	294	95
TR98-16 46-48	205	294	60
TR98-16 48-50	205	294	2890
TR98-16 50-52	205	294	110
TR98-16 52-54	205	294	40
TR98-16 54-56	205	294	25
TR98-16 56-58	205	294	20
TR98-16 58-60	205	294	10
TR98-16 70-72	205	294	95
TR98-16 72-74	205	294	50
TR98-16 74-76	205	294	30
TR98-16 76-78	205	294	20
TR98-16 78-80	205	294	70
TR98-16 80-82	--	--	NotRcd
TR98-16 82-84	--	--	NotRcd
TR98-16 84-86	--	--	NotRcd
TR98-16 86-88	--	--	NotRcd
TR98-16 88-90	--	--	NotRcd

CERTIFICATION: Mark Vonk

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VICEROY EXPLORATION (CANADA), INC

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CERTIFICATE OF ANALYSIS A9826094

SAMPLE	PREP CODE		Au ppb FA+AA
TR98-16 100-102	205	294	25
TR98-16 102-104	205	294	35
TR98-16 104-106	205	294	50
TR98-16 106-108	205	294	240
TR98-16 108-110	205	294	560

CERTIFICATION: Thanh Vinh

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VICEROY EXPLORATION (CANADA), INC

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Y1A 4L2

A9826095

Comments: ATTN: RICK DIMENT

CERTIFICATE A9826095

(OQN) - VICEROY EXPLORATION (CANADA), INC.

Project: 4341-03 TR98-12
P.O. # : P1

Samples submitted to our lab in Vancouver, BC.
This report was printed on 31-JUL-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	43	Geochem ring to approx 150 mesh
294	43	4-7 Kg crush and split
3202	43	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	43	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : 4341-03 TR98-12
Comments: ATTN: RICK DIMENT

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Invoice No. :19826095
P.O. Number :P1
Account :OQN

CERTIFICATE OF ANALYSIS A9826095

SAMPLE	PREP CODE	Au ppb FA+AA
TR98-12 158	205 294	285
TR98-12 158-160	205 294	120
TR98-12 162	205 294	720
TR98-12 162-164	205 294	85
TR98-12 166	205 294	100
TR98-12 168	205 294	460
TR98-12 170	205 294	70
TR98-12 172	205 294	95
TR98-12 174	205 294	20
TR98-12 176	205 294	20
TR98-12 178	205 294	35
TR98-12 180	205 294	80
TR98-12 182	205 294	55
TR98-12 184	205 294	15
TR98-12 186	205 294	15
TR98-12 188	205 294	15
TR98-12 190	205 294	40
TR98-12 192	205 294	90
TR98-12 194	205 294	40
TR98-12 196	205 294	40
TR98-12 198	205 294	80
TR98-12 200	205 294	85
TR98-12 202	205 294	40
TR98-12 204	205 294	30
TR98-12 206	205 294	55
TR98-12 208	205 294	215
TR98-12 210	205 294	190
TR98-12 212	205 294	195
TR98-12 214	205 294	235
TR98-12 216	205 294	125
TR98-12 218	205 294	105
TR98-12 220	205 294	415
TR98-12 222	205 294	240
TR98-12 224	205 294	215
TR98-12 226	205 294	145
TR98-12 228	205 294	170
TR98-12 230	205 294	50
TR98-12 232	205 294	75
TR98-12 234	205 294	65
TR98-12 236	205 294	225

CERTIFICATION:

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VICEROY EXPLORATION (CANADA), INC

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Project : 4341-03 TR98-12
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Invoice No. :I9826095
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CERTIFICATE OF ANALYSIS A9826095

SAMPLE	PREP CODE		Au ppb FA+AA
TR98-12 238	205	294	195
TR98-12 240	205	294	140
TR98-12 242	205	294	165

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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
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Y1A 4L2

A9826083

Comments: ATTN: RICK DIMENT

CERTIFICATE A9826083

(OQN) - VICEROY EXPLORATION (CANADA), INC.

Project: 4341-03
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 2-AUG-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	225	Geochem ring to approx 150 mesh
294	225	4-7 Kg crush and split
3202	225	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	225	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
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Y1A 4L2

Project : 4341-03
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CERTIFICATE OF ANALYSIS A9826083

SAMPLE	PREP CODE	Au ppb FA+AA
TR9812 D1	205 294	40
TR9812 D2	205 294	50
TR9812 D3	205 294	170
TR9812 0	205 294	< 5
TR9812 2	205 294	< 5
TR9812 4	205 294	10
TR9812 6	205 294	< 5
TR9812 8	205 294	< 5
TR9812 10	205 294	< 5
TR9812 12	205 294	70
TR9812 14	205 294	295
TR9812 16	205 294	40
TR9812 18	205 294	50
TR9812 20	205 294	30
TR9812 22	205 294	55
TR9812 24	205 294	15
TR9812 26	205 294	50
TR9812 28	205 294	45
TR9812 30	205 294	90
TR9812 32	205 294	50
TR9812 34	205 294	20
TR9812 36	205 294	< 5
TR9812 38	205 294	15
TR9812 40	205 294	10
TR9812 42	205 294	35
TR9812 44	205 294	60
TR9812 46	205 294	35
TR9812 48	205 294	10
TR9812 50	205 294	10
TR9812 52	205 294	10
TR9812 54	205 294	10
TR9812 56	205 294	25
TR9812 58	205 294	10
TR9812 60	205 294	15
TR9812 62	205 294	5
TR9812 64	205 294	< 5
TR9812 66	205 294	10
TR9812 68	205 294	5
TR9812 70	205 294	< 5
TR9812 72	205 294	10

CERTIFICATION: Thanh Vanh

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VICEROY EXPLORATION (CANADA), INC

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Project : 4341-03
Comments: ATTN: RICK DIMENT

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CERTIFICATE OF ANALYSIS A9826083

SAMPLE	PREP CODE		Au ppb FA+AA
TR9812 74	205	294	20
TR9812 76	205	294	40
TR9812 78	205	294	80
TR9812 80	205	294	30
TR9812 82	205	294	20
TR9812 84	205	294	30
TR9812 86	205	294	30
TR9812 88	205	294	25
TR9812 90	205	294	735
TR9812 122	205	294	40
TR9812 124	205	294	5
TR9812 126	205	294	35
TR9812 128	205	294	30
TR9812 130	205	294	60
TR9812 132	205	294	20
TR9812 134	205	294	50
TR9812 136	205	294	25
TR9812 138	205	294	15
TR9812 140	205	294	25
TR9812 142	205	294	35
TR9812 144	205	294	35
TR9812 146	205	294	40
TR9812 148	205	294	20
TR9812 150	205	294	< 5
TR9812 152	205	294	10
TR9812 154	205	294	10
TR9812 156	205	294	365
TR9812 156-158	205	294	70
TR9812 160	205	294	355
TR9812 160-162	205	294	265
TR9812 164	205	294	10
TR9815 32-34	205	294	665
TR9815 34-36	205	294	560
TR9815 36-38	205	294	80
TR9815 38-40	205	294	5
TR9815 40-42	205	294	10
TR9815 42-44	205	294	15
TR9816 D1	205	294	1080
TR9816 D2	205	294	20
TR9816 D3	205	294	490

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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : 4341-03
Comments: ATTN: RICK DIMENT

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Invoice No. :I9826083
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CERTIFICATE OF ANALYSIS A9826083

SAMPLE	PREP CODE		Au ppb FA+AA
TR9816 60-62	205	294	15
TR9816 62-64	205	294	5
TR9816 64-66	205	294	60
TR9816 66-68	205	294	10
TR9816 68-70	205	294	15
TR9816 80-82	205	294	30
TR9816 82-84	205	294	545
TR9816 84-86	205	294	40
TR9816 86-88	205	294	155
TR9816 88-90	205	294	15
TR9816 90-92	205	294	65
TR9816 92-94	205	294	130
TR9816 94-96	205	294	30
TR9816 96-98	205	294	45
TR9816 98-100	205	294	110
TR9816 110-112	205	294	4240
TR9816 112-114	205	294	200
TR9817 D1	205	294	10
TR9817 0-2	205	294	20
TR9817 2-4	205	294	5
TR9817 4-6	205	294	15
TR9817 6-8	205	294	< 5
TR9817 8-10	205	294	5
TR9817 10-12	205	294	15
TR9817 12-14	205	294	1005
TR9817 14-16	205	294	95
TR9817 16-18	205	294	10
TR9817 18-20	205	294	5
TR9817 20-22	205	294	15
TR9817 22-24	205	294	< 5
TR9817 24-26	205	294	< 5
TR9817 26-28	205	294	< 5
TR9817 28-30	205	294	225
TR9817 30-32	205	294	15
TR9817 32-34	205	294	< 5
TR9817 34-36	205	294	10
TR9817 36-38	205	294	< 5
TR9817 38-40	205	294	40
TR9817 40-42	205	294	35
TR9817 42-44	205	294	40

CERTIFICATION: Mark Vonk

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VICEROY EXPLORATION (CANADA), INC

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Y1A 4L2

Project : 4341-03
Comments: ATTN: RICK DIMENT

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Invoice No. : I9826083
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9826083

SAMPLE	PREP CODE		Au ppb FA+AA
TR9817 44-46	205	294	20
TR9817 46-48	205	294	< 5
TR9817 48-50	205	294	< 5
TR9817 60-62	205	294	90
TR9817 62-64	205	294	95
TR9817 64-66	205	294	< 5
TR9817 66-68	205	294	15
TR9817 68-70	205	294	10
DTR9818 A	205	294	10
DTR9818 B	205	294	25
DTR9818 C	205	294	10
DTR9818 D	205	294	10
DTR9818 E	205	294	20
TR9818 0-2	205	294	35
TR9818 2-4	205	294	100
TR9818 4-6	205	294	40
TR9818 6-8	205	294	30
TR9818 8-10	205	294	8900
TR9818 10-12	205	294	90
TR9818 12-14	205	294	100
TR9818 14-16	205	294	50
TR9818 16-18	205	294	20
TR9818 18-20	205	294	10
TR9818 44-46	205	294	30
TR9818 46-48	205	294	55
TR9818 50-52	205	294	< 5
TR9818 52-54	205	294	25
TR9818 54-56	205	294	20
TR9818 56-58	205	294	155
TR9818 58-60	205	294	< 5
TR9818 100-102	205	294	15
TR9818 102-104	205	294	15
TR9818 104-106	205	294	< 5
TR9818 106-108	205	294	10
TR9818 108-110	205	294	< 5
TR9818 150-152	205	294	25
TR9818 152-154	205	294	10
TR9818 154-156	205	294	295
TR9818 156-158	205	294	160
TR9818 158-160	205	294	40

CERTIFICATION:

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VICEROY EXPLORATION (CANADA), INC

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Y1A 4L2

Project : 4341-03
Comments: ATTN: RICK DIMENT

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Certificate: 02-AUG-98
Invoice No. : 19826083
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9826083

SAMPLE	PREP CODE		Au ppb FA+AA
TR9818 160-161	205	294	90
TR9818 161-162	205	294	30
TR9818 162-163	205	294	340
TR9818 163-164	205	294	80
TR9818 164-165	205	294	100
TR9818 165-166	205	294	20
TR9818 166-167	205	294	25
TR9818 167-168	205	294	120
TR9818 168-169	205	294	< 5
TR9818 169-170	205	294	110
TR9818 170-171	205	294	1030
TR9818 171-172	205	294	160
TR9818 172-173	205	294	45
TR9818 173-174	205	294	25
TR9818 174-175	205	294	25
TR9818 175-176	205	294	25
TR9818 176-178	205	294	20
TR9818 178-180	205	294	25
TR9819 D1	205	294	95
TR9819 D2	205	294	300
TR9819 0-2	205	294	15
TR9819 2-4	205	294	2980
TR9819 4-6	205	294	15
TR9819 6-8	205	294	10
TR9819 8-10	205	294	10
TR9819 10-12	205	294	10
TR9819 12-14	205	294	25
TR9819 14-16	205	294	40
TR9819 16-18	205	294	20
TR9819 18-20	205	294	10
TR9819 40-42	205	294	< 5
TR9819 42-44	205	294	10
TR9819 44-46	205	294	10
TR9819 46-48	205	294	5
TR9819 48-50	205	294	< 5
TR9819 50-52	205	294	< 5
TR9819 52-54	205	294	< 5
TR9819 54-56	205	294	10
TR9819 56-58	205	294	25
TR9819 58-60	205	294	220

CERTIFICATION: Mark Vinh

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VICEROY EXPLORATION (CANADA), INC

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Account :OQN

CERTIFICATE OF ANALYSIS A9826083

SAMPLE	PREP CODE		Au ppb FA+AA
TR9819 80-82	205	294	225
TR9819 82-84	205	294	35
TR9819 84-86	205	294	60
TR9820 0	205	294	95
TR9820 2	205	294	10
TR9820 4	205	294	30
TR9820 6	205	294	50
TR9820 8	205	294	30
TR9820 52	205	294	10
TR9820 54	205	294	25
TR9820 56	205	294	70
TR9820 58	205	294	65
TR9820 60	205	294	25
TR9820 62	205	294	30
TR9820 64	205	294	55
TR9821 0-2	205	294	80
TR9821 2-4	205	294	15
TR9821 4-6	205	294	40
TR9821 6-8	205	294	10
TR9821 8-10	205	294	10
TR9821 10-12	205	294	10
TR9821 12-14	205	294	10
TR9821 14-16	205	294	< 5
TR9821 16-18	205	294	25
TR9821 18-20	205	294	180

CERTIFICATION:

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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

A9825269

Comments: ATTN: RICK DIMENT

CERTIFICATE A9825269

(OQN) - VICEROY EXPLORATION (CANADA), INC.

Project: 4341-03
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 28-JUL-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	76	Geocham ring to approx 150 mesh
226	76	0-3 Kg crush and split
3202	76	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	76	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
997	2	Au g/t: 1 assay ton, grav.	FA-GRAVIMETRIC	0.07	1000.0

Chemex Labs Ltd.

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VICEROY EXPLORATION (CANADA), INC

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Y1A 4L2

Project : 4341-03
Comments: ATTN: RICK DIMENT

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Certificate Date: 28-JUL-98
Invoice No. : 19825269
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9825269

SAMPLE	PREP CODE		Au ppb FA+AA	Au FA g/t
TR9814 0	205	226	125	-----
TR9814 2	205	226	525	-----
TR9814 4	205	226	220	-----
TR9814 6	205	226	510	-----
TR9814 8	205	226	4300	-----
TR9814 8B	205	226	480	-----
TR9814 10	205	226	< 5	-----
TR9814 10B	205	226	305	-----
TR9814 12	205	226	635	-----
TR9814 14	205	226	465	-----
TR9814 15	205	226	>10000	14.19
TR9814 15B	205	226	6690	-----
TR9814 16	205	226	3210	-----
TR9814 18	205	226	500	-----
TR9814 20	205	226	170	-----
TR9814 22	205	226	105	-----
TR9814 24	205	226	490	-----
TR9814 26	205	226	935	-----
TR9814 28	205	226	1665	-----
TR9814 30	205	226	520	-----
TR9814 30B	205	226	335	-----
TR9814 32	205	226	245	-----
TR9814 32B	205	226	1990	-----
TR9814 34	205	226	1150	-----
TR9814 34B	205	226	5810	-----
TR9814 36	205	226	145	-----
TR9814 38	205	226	1335	-----
TR9814 40	205	226	115	-----
TR9814 42	205	226	850	-----
TR9814 44	205	226	515	-----
TR9814 46	205	226	100	-----
TR9814 48	205	226	1800	-----
TR9814 50	205	226	185	-----
TR9814 52	205	226	295	-----
TR9814 54	205	226	75	-----
TR9814 56	205	226	740	-----
TR9814 58	205	226	200	-----
TR9814 60	205	226	85	-----
TR9814 62	205	226	525	-----
TR9814 64	205	226	370	-----

CERTIFICATION: Mark Vinh

Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : 4341-03
Comments: ATTN: RICK DIMENT

Certificate Date: 28-JUL-98
Invoice No. : I9825269
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9825269

SAMPLE	PREP CODE		Au ppb FA+AA	Au FA g/t
TR9814 66	205	226	175	-----
TR9814 68	205	226	115	-----
TR9814 70	205	226	1325	-----
TR9814 72	205	226	105	-----
TR9814 74	205	226	365	-----
TR9814 76	205	226	45	-----
TR9814 78	205	226	535	-----
TR9814 80	205	226	1290	-----
TR9814 82	205	226	130	-----
TR9814 83	205	226	>10000	12.89
TR9814 84	205	226	150	-----
TR9814 86	205	226	85	-----
TR9814 88	205	226	1470	-----
TR9814 88A	205	226	4890	-----
TR9814 88B	205	226	215	-----
TR9814 90	205	226	155	-----
TR9814 90B	205	226	135	-----
TR9814 92	205	226	435	-----
TR9814 94	205	226	260	-----
TR9814 96	205	226	415	-----
TR9814 98	205	226	105	-----
TR9814 99	205	226	90	-----
TR9814 100	205	226	80	-----
TR9814 102	205	226	15	-----
TR9814 104	205	226	35	-----
TR9814 106	205	226	190	-----
TR9814 108	205	226	30	-----
TR9814 110	205	226	25	-----
TR9814 112	205	226	< 5	-----
TR9814 114	205	226	10	-----
TR9814 116	205	226	90	-----
TR9814 118	205	226	85	-----
TR9814 120	205	226	35	-----
TR9814 122	205	226	85	-----
TR9814 124	205	226	115	-----
TR9814 126	205	226	75	-----

CERTIFICATION: Mark Vorh

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/ICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

A9825260

Comments: ATTN: RICK DIMENT

CERTIFICATE A9825260

(OQN) - VICEROY EXPLORATION (CANADA), INC.

Project: 4341-03
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 28-JUL-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	144	Geochem ring to approx 150 mesh
294	144	4-7 Kg crush and split
3202	144	Rock - save entire reject
220	144	Transferring charge
222	144	Drying charge (0-3 Kg)

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	144	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
997	2	Au g/t: 1 assay ton, grav.	FA-GRAVIMETRIC	0.07	1000.0

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/ICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : 4341-03
Comments: ATTN: RICK DIMENT

Page N :1
Total Pa :4
Certificate Date: 28-JUL-98
Invoice No. :19825260
P.O. Number :
Account :OQN

CERTIFICATE OF ANALYSIS A9825260

SAMPLE	PREP CODE		Au ppb FA+AA	Au FA g/t
TR9813 A	205	294	< 5	-----
TR9813 B	205	294	165	-----
TR9813 C	205	294	800	-----
TR9813 D	205	294	70	-----
TR9813 D2	205	294	55	-----
TR9813 D3	205	294	410	-----
TR9813 D4	205	294	100	-----
TR9813 F	205	294	900	-----
TR9813 G	205	294	745	-----
TR9813 H	205	294	130	-----
TR9813 I	205	294	>10000	51.87
TR9813 J	205	294	>10000	16.73
TR9813 3.5	205	294	95	-----
TR9813 7.4	205	294	10	-----
TR9813 10	205	294	10	-----
TR9813 12	205	294	90	-----
TR9813 13	205	294	15	-----
TR9813 18	205	294	20	-----
TR9813 22	205	294	15	-----
TR9813 25	205	294	1615	-----
TR9813 26	205	294	110	-----
TR9813 30	205	294	230	-----
TR9813 32	205	294	165	-----
TR9813 34	205	294	860	-----
TR9813 37	205	294	290	-----
TR9813 38	205	294	20	-----
TR9813 42	205	294	210	-----
TR9813 48	205	294	205	-----
TR9813 75	205	294	450	-----
TR9813 78	205	294	690	-----
TR9813 85	205	294	20	-----
TR9813 86	205	294	220	-----
TR9813 90	205	294	155	-----
TR9813 90B	205	294	5	-----
TR9813 91	205	294	275	-----
TR9813 91B	205	294	340	-----
TR9813 98	205	294	3050	-----
TR9813 98B	205	294	1430	-----
TR9813 102	205	294	855	-----
TR9813 102.5	205	294	15	-----

CERTIFICATION: Mark Vinh

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/ICEROY EXPLORATION (CANADA), INC

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Y1A 4L2

Project : 4341-03
Comments: ATTN: RICK DIMENT

Certificate Date: 28-JUL-98
Invoice No. : 19825260
P.O. Number :
Account :OQN

CERTIFICATE OF ANALYSIS A9825260

SAMPLE	PREP CODE		Au ppb FA+AA	Au FA g/t
TR9813 110.0	205	294	20	-----
TR9813 112	205	294	85	-----
TR9813 113	205	294	770	-----
TR9813 116.5	205	294	20	-----
TR9813 119	205	294	30	-----
TR9813 130	205	294	450	-----
TR9813 132	205	294	340	-----
TR9813 134	205	294	90	-----
TR9813 154	205	294	2710	-----
TR9813 156	205	294	6420	-----
TR9813 160	205	294	140	-----
TR9813 0-2	--	--	NotRcd	-----
TR9813 2-4	205	294	25	-----
TR9813 4-6	205	294	< 5	-----
TR9813 6-8	205	294	< 5	-----
TR9813 8-10	205	294	< 5	-----
TR9813 10-12	205	294	10	-----
TR9813 12-13	205	294	< 5	-----
TR9813 13-14	205	294	10	-----
TR9813 14-16	205	294	< 5	-----
TR9813 15-16	205	294	25	-----
TR9813 16-18	205	294	15	-----
TR9813 18-20	205	294	20	-----
TR9813 20-22	205	294	15	-----
TR9813 22-24	205	294	150	-----
TR9813 24-26	205	294	480	-----
TR9813 26-28	205	294	170	-----
TR9813 28-30	205	294	65	-----
TR9813 30-32	205	294	65	-----
TR9813 30.5-31	205	294	2890	-----
TR9813 32-34	205	294	60	-----
TR9813 34-36	205	294	30	-----
TR9813 36-38	205	294	30	-----
TR9813 38-40	205	294	20	-----
TR9813 40-42	205	294	115	-----
TR9813 42-44	205	294	< 5	-----
TR9813 44-46	205	294	< 5	-----
TR9813 46-48	205	294	140	-----
TR9813 48-50	205	294	195	-----
TR9813 50-52	205	294	210	-----

CERTIFICATION:

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/ICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
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Y1A 4L2

Project : 4341-03
Comments: ATTN: RICK DIMENT

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Invoice No. :19825260
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Account :OQN

CERTIFICATE OF ANALYSIS A9825260

SAMPLE	PREP CODE		Au ppb FA+AA	Au FA g/t
TR9813 52-54	205	294	40	-----
TR9813 53-54	205	294	1165	-----
TR9813 54-56	205	294	150	-----
TR9813 56-58	205	294	460	-----
TR9813 58-60	205	294	475	-----
TR9813 60-62	205	294	315	-----
TR9813 62-64	205	294	240	-----
TR9813 64-66	205	294	110	-----
TR9813 66-68	205	294	170	-----
TR9813 68-70	205	294	100	-----
TR9813 70-72	205	294	185	-----
TR9813 73-74	205	294	295	-----
TR9813 74-76	205	294	505	-----
TR9813 76-78	205	294	350	-----
TR9813 78-80	205	294	800	-----
TR9813 80-82	205	294	500	-----
TR9813 82-84	205	294	110	-----
TR9813 84-86	205	294	1205	-----
TR9813 86-88	205	294	375	-----
TR9813 88-90	205	294	160	-----
TR9813 90-92	205	294	115	-----
TR9813 92-94	205	294	110	-----
TR9813 94-96	205	294	2650	-----
TR9813 96-98	205	294	550	-----
TR9813 98-100	205	294	380	-----
TR9813 100-102	205	294	340	-----
TR9813 102-104	205	294	150	-----
TR9813103-103.5	205	294	710	-----
TR9813 104-106	205	294	220	-----
TR9813 106-108	205	294	100	-----
TR9813 108-110	205	294	220	-----
TR9813 110-112	205	294	180	-----
TR9813 112-114	205	294	220	-----
TR9813 114-116	205	294	570	-----
TR9813 116-118	205	294	490	-----
TR9813 118-120	205	294	170	-----
TR9813 120-122	205	294	30	-----
TR9813 122-124	205	294	80	-----
TR9813 124-126	205	294	50	-----
TR9813 126-128	205	294	175	-----

CERTIFICATION: Mark Vander

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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : 4341-03
Comments: ATTN: RICK DIMENT

Certificate Date: 28-JUL-98
Invoice No. : I9825260
P.O. Number :
Account :OQN

CERTIFICATE OF ANALYSIS A9825260

SAMPLE	PREP CODE		Au ppb FA+AA	Au FA g/t
TR9813 128-130	205	294	845	-----
TR9813 130-132	205	294	440	-----
TR9813 132-134	205	294	50	-----
TR9813 134-136	205	294	20	-----
TR9813 136-138	205	294	30	-----
TR9813 138-140	205	294	15	-----
TR9813 140-142	205	294	30	-----
TR9813 142-144	205	294	105	-----
TR9813 144-146	205	294	70	-----
TR9813 146-148	205	294	880	-----
TR9813 148-150	205	294	60	-----
TR9813 150-152	205	294	190	-----
TR9813 152-154	205	294	430	-----
TR9813 154-156	205	294	5120	-----
TR9813 156-158	205	294	120	-----
TR9813 158-160	205	294	205	-----
TR9813 160-162	205	294	65	-----
TR9813 162-164	205	294	70	-----
TR9813 164-166	205	294	295	-----
TR9813 166-168	205	294	210	-----
TR9813 168-170	205	294	130	-----
TR9813 170-172	205	294	25	-----
TR9813 172-174	205	294	10	-----
TR9813 174-176	205	294	10	-----
TR9813 176-178	205	294	10	-----

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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

A9825270

Comments: ATTN: RICK DIMENT

CERTIFICATE A9825270

(OQN) - VICEROY EXPLORATION (CANADA), INC.

Project: 4341-03
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 26-JUL-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	19	Geochem ring to approx 150 mesh
226	19	0-3 Kg crush and split
3202	19	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	19	Au ppb: Fuse 30 g sample	FA-AAs	5	10000

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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : 4341-03
Comments: ATTN: RICK DIMENT

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Total : 1
Certificate Date: 26-JUL-98
Invoice No. : I9825270
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9825270

SAMPLE	PREP CODE		Au ppb FA+AA
MTR98-12 A	205	226	1125
MTR98-12 B	205	226	20
MTR98-12 C	205	226	55
MTR98-12 D	205	226	230
MTR98-12 E	205	226	220
MTR98-12 F	205	226	90
MTR98-12 G	205	226	230
MTR98-12 H	205	226	65
MTR98-12 I	205	226	20
MTR98-12 J	205	226	140
MTR98-12 K	205	226	15
MTR98-12 L	205	226	95
MTR98-12 M	205	226	500
MTR98-12 N	205	226	965
MTR98-12 O	205	226	370
MTR98-12 P	205	226	335
MTR98-12 Q	205	226	60
MTR98-12 R	205	226	2670
MTR98-12 S	205	226	305

CERTIFICATION: Mark Vonk

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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

A9821989

Comments: ATTN: RICK DIMENT

CERTIFICATE A9821989

(OQN) - VICEROY EXPLORATION (CANADA), INC. *

Project: McQUESTEN 4341
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 25-JUN-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	11	Geochem ring to approx 150 mesh
226	11	0-3 Kg crush and split
3202	11	Rock - save entire reject
229	11	ICP - AQ Digestion charge

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is poesibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	11	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	11	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119	11	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	11	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	11	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	11	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	11	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	11	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	11	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	500
2126	11	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	11	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	11	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	11	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	11	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
20	11	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
2132	11	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	11	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	11	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	11	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	11	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	11	Na %: 32 element, soil & rock	ICP-AES	0.01	10.00
2138	11	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	11	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	11	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	11	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	11	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	11	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	11	Ti %: 32 element, soil & rock	ICP-AES	0.01	10.00
2145	11	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	11	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	11	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	11	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	11	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

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: VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : McQUESTEN 4341
Comments: ATTN: RICK DIMENT

Page : 1-A
Total : 1
Certificate Date: 25-JUN-98
Invoice No. : I9821989
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9821989

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm
TR98-01 52	205	226	< 5	< 0.2	0.58	26	440	< 0.5	< 2	2.15	< 0.5	2	119	14	0.62	< 10	< 10	0.07	10	0.11	50
TR98-05 11	205	226	< 5	2.4	1.14	78	320	0.5	< 2	0.13	< 0.5	1	105	30	1.21	< 10	< 10	0.15	30	0.19	95
TR98-05 37	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TR98-05 46	205	226	25	0.2	1.01	216	280	< 0.5	< 2	0.08	0.5	3	168	49	1.90	< 10	< 10	0.11	10	0.42	135
TR98-09 34	205	226	< 5	< 0.2	1.95	78	790	0.5	< 2	0.35	< 0.5	12	114	33	2.53	< 10	< 10	0.67	10	1.17	205
TR98-09 101	205	226	60	< 0.2	1.18	68	40	0.5	4	>15.00	5.0	8	50	29	3.03	< 10	< 10	0.05	< 10	0.96	2270
TR98-09 140.5	205	226	5	0.2	0.60	84	260	< 0.5	< 2	0.09	< 0.5	< 1	142	21	0.90	< 10	< 10	0.10	10	0.20	85
~~TR98-11-37~~	205	226	< 5	< 0.2	0.23	24	60	< 0.5	< 2	0.03	< 0.5	< 1	151	6	0.54	< 10	< 10	0.03	< 10	0.06	45
TR98-11 67	205	226	35	0.8	0.12	28	60	< 0.5	< 2	0.01	< 0.5	< 1	180	4	0.33	< 10	< 10	0.06	< 10	< 0.01	30
TR98-11 68	205	226	< 5	< 0.2	0.07	8	40	< 0.5	< 2	< 0.01	0.5	< 1	155	4	0.40	< 10	< 10	0.03	< 10	< 0.01	20
TR98-11 133	205	226	2110	0.8	0.91	< 2	10	0.5	36	3.96	0.5	44	113	240	8.67	< 10	< 10	< 0.01	< 10	0.44	1175
HARVEY GULCH QZM	205	226	505	1.4	0.57	3800	70	0.5	22	0.48	0.5	21	60	232	3.59	< 10	< 10	0.27	40	0.13	150

CERTIFICATION: [signature]

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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : McQUESTEN 4341
Comments: ATTN: RICK DIMENT

Page : 1-B
Total : 1
Certificate Date: 25-JUN-98
Invoice No. : I9821989
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9821989

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
TR98-01 52	205	226	< 1	0.07	5	130	< 2	< 2	< 1	63	< 0.01	< 10	< 10	1	< 10	18
TR98-05 11	205	226	9	0.04	14	290	18	< 2	< 1	83	< 0.01	< 10	< 10	46	< 10	44
TR98-05 37	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TR98-05 46	205	226	< 1	< 0.01	19	310	4	< 2	1	19	< 0.01	< 10	< 10	23	< 10	64
TR98-09 34	205	226	19	0.01	106	250	< 2	< 2	4	36	0.10	< 10	< 10	151	< 10	108
TR98-09 101	205	226	< 1	0.03	24	360	< 2	< 2	3	351	< 0.01	< 10	< 10	14	< 10	220
TR98-09 140.5	205	226	< 1	< 0.01	10	80	< 2	< 2	< 1	9	< 0.01	< 10	< 10	12	< 10	20
TR98-11 37	205	226	< 1	< 0.01	3	70	< 2	< 2	< 1	6	< 0.01	< 10	< 10	4	< 10	10
TR98-11 67	205	226	< 1	< 0.01	4	20	16	< 2	< 1	9	< 0.01	< 10	< 10	3	< 10	20
TR98-11 68	205	226	1	< 0.01	4	40	< 2	< 2	< 1	6	< 0.01	< 10	< 10	2	< 10	30
TR98-11 133	205	226	7	< 0.01	20	240	< 2	< 2	1	42	< 0.01	< 10	< 10	61	240	56
HARVEY GULCH QZM	205	226	1	0.03	20	930	18	50	1	47	< 0.01	< 10	< 10	9	790	32

CERTIFICATION: Hank Bielle

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

: VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD,
WHITEHORSE, YT
Y1A 4L2

A9821888

Comments: ATTN: RICK DIMENT

CERTIFICATE A9821888

(OQN) - VICEROY EXPLORATION (CANADA), INC. *

Project: McQUESTEN
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 24-JUN-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	167	Geochem ring to approx 150 mesh
226	167	0-3 Kg crush and split
3202	167	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	167	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
997	8	Au g/t: 1 assay ton, grav.	FA-GRAVIMETRIC	0.07	1000.0

Chemex Labs Ltd.

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: VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : McQUESTEN
Comments: ATTN: RICK DIMENT

Page : 1
Total : 5
Certificate Date: 24-JUN-98
Invoice No. : I9821888
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9821888

SAMPLE	PREP CODE	Au ppb FA+AA	Au FA g/t
DTR 98-08 A	205 226	1040	-----
DTR 98-08 B	205 226	820	-----
DTR 98-08 C	205 226	25	-----
DTR 98-08 D	205 226	>10000	20.78
DTR 98-08 E	205 226	210	-----
DTR 98-08 F	205 226	385	-----
DTR 98-08 G	205 226	40	-----
DTR 98-08 H	205 226	65	-----
DTR 98-08 I	205 226	175	-----
DTR 98-08 J	205 226	950	-----
DTR 98-08 K	205 226	35	-----
DTR 98-09 A	205 226	255	-----
DTR 98-09 B	205 226	10	-----
DTR 98-09 C	205 226	10	-----
DTR 98-09 D	205 226	< 5	-----
DTR 98-09 E	205 226	5	-----
DTR 98-09 F	205 226	330	-----
DTR 98-09 G	205 226	35	-----
DTR 98-09 H	205 226	110	-----
DTR 98-09 I	205 226	30	-----
MTR 98-01 A	205 226	9340	-----
MTR 98-01 B	205 226	115	-----
MTR 98-01 C	205 226	3180	-----
MTR 98-01 D	205 226	25	-----
MTR 98-01 E	205 226	70	-----
MTR 98-01 F	205 226	10	-----
MTR 98-01 G	205 226	10	-----
MTR 98-01 H	205 226	30	-----
MTR 98-02 A	205 226	6090	-----
MTR 98-02 B	205 226	215	-----
MTR 98-02 C	205 226	75	-----
MTR 98-02 D	205 226	60	-----
MTR 98-02 E	205 226	85	-----
MTR 98-02 F	205 226	85	-----
MTR 98-02 G	205 226	310	-----
MTR 98-03 A	205 226	20	-----
MTR 98-03 B	205 226	35	-----
MTR 98-03 C	205 226	50	-----
MTR 98-03 D	205 226	30	-----
MTR 98-03 E	205 226	65	-----

CERTIFICATION: _____

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WHITEHORSE, YT
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Total :5
Certificate Date: 24-JUN-98
Invoice No. : I9821888
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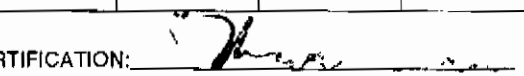
CERTIFICATE OF ANALYSIS A9821888

SAMPLE	PREP CODE		Au ppb FA+AA	Au FA g/t
MTR 98-03 F	205	226	235	-----
MTR 98-03 G	205	226	230	-----
MTR 98-03 H	205	226	240	-----
MTR 98-05 A	205	226	1190	-----
MTR 98-05 B	205	226	80	-----
MTR 98-05 C	205	226	30	-----
MTR 98-05 D	205	226	45	-----
MTR 98-05 EA	205	226	30	-----
MTR 98-05 EB	205	226	5	-----
MTR 98-05 F	205	226	50	-----
MTR 98-05 G	--	--	NotRcd	-----
MTR 98-06 A	205	226	45	-----
MTR 98-06 B	205	226	280	-----
MTR 98-06 C	205	226	475	-----
MTR 98-06 D	205	226	340	-----
MTR 98-06 E	205	226	70	-----
MTR 98-06 F	205	226	20	-----
MTR 98-06 G	205	226	5	-----
MTR 98-06 H	205	226	95	-----
MTR 98-06 I	205	226	>10000	21.60
MTR 98-07 A	205	226	1565	-----
MTR 98-07 B	205	226	3910	-----
MTR 98-07 C	205	226	2940	-----
MTR 98-07 D	205	226	50	-----
MTR 98-07 E	205	226	60	-----
MTR 98-07 F	205	226	120	-----
MTR 98-07 G	205	226	10	-----
MTR 98-07 H	205	226	30	-----
MTR 98-07 I	205	226	25	-----
MTR 98-10 A	205	226	730	-----
MTR 98-10 B	205	226	20	-----
MTR 98-10 C	205	226	40	-----
MTR 98-10 D	205	226	>10000	33.53
MTR 98-10 E	205	226	>10000	16.83
MTR 98-10 F	205	226	1060	-----
MTR 98-10 G	205	226	125	-----
MTR 98-11 A	205	226	>10000	22.83
MTR 98-11 B	205	226	>10000	19.44
MTR 98-11 C	205	226	375	-----
MTR 98-11 D	205	226	>10000	12.72

CERTIFICATION: 

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221 FAX: 604-984-0218

: VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : McQUESTEN
Comments: ATTN: RICK DIMENT

Page : 3
Total : 5
Certificate Date: 24-JUN-98
Invoice No. : I9821888
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9821888

SAMPLE	PREP CODE	Au ppb FA+AA	Au FA g/t
MTR 98-11 E	205 226	2060	-----
MTR 98-11 F	205 226	2760	-----
MTR 98-11 G	205 226	55	-----
MTR 98-11 H	205 226	620	-----
MTR 98-11 I	205 226	100	-----
MTR 98-11 J	205 226	80	-----
MTR 98-11 K	205 226	160	-----
MTR 98-11 L	205 226	2110	-----
MTR 98-11 M	205 226	6110	-----
S1	205 226	20	-----
S2	205 226	45	-----
S3	205 226	20	-----
S4	205 226	5	-----
S5	205 226	< 5	-----
S6	205 226	5	-----
S7	205 226	< 5	-----
S8	205 226	10	-----
S9	205 226	< 5	-----
S10	205 226	< 5	-----
S11	205 226	< 5	-----
S12	205 226	840	-----
S13	205 226	105	-----
S14	205 226	130	-----
TR98-09 D3	205 226	195	-----
TR98-11 0-2	205 226	50	-----
TR98-11 2-4	205 226	280	-----
TR98-11 4-6	205 226	105	-----
TR98-11 6-8	205 226	505	-----
TR98-11 8-10	205 226	530	-----
TR98-11 10-12	205 226	955	-----
TR98-11 12-14	205 226	60	-----
TR98-11 14-16	205 226	125	-----
TR98-11 16-18	205 226	490	-----
TR98-11 18-20	205 226	330	-----
TR98-11 20-22	205 226	1870	-----
TR98-11 22-24	205 226	105	-----
TR98-11 24-26	205 226	105	-----
TR98-11 26-28	205 226	340	-----
TR98-11 28-30	205 226	>10000	14.67
TR98-11 30-32	205 226	1280	-----

CERTIFICATION:

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VICEROY EXPLORATION (CANADA), INC

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CERTIFICATE OF ANALYSIS A9821888

SAMPLE	PREP CODE		Au ppb FA+AA	Au FA g/t
TR98-11 32-34	205	226	25	-----
TR98-11 34-36	205	226	80	-----
TR98-11 36-38	205	226	35	-----
TR98-11 38-40	205	226	160	-----
TR98-11 40-42	205	226	190	-----
TR98-11 42-44	205	226	905	-----
TR98-11 44-46	205	226	55	-----
TR98-11 56-58	205	226	10	-----
TR98-11 58-60	205	226	10	-----
TR98-11 62-64	205	226	30	-----
TR98-11 64-66	205	226	15	-----
TR98-11 66-68	205	226	< 5	-----
TR98-11 68-70	205	226	< 5	-----
TR98-11 70-72	205	226	15	-----
TR98-11 72-74	205	226	90	-----
TR98-11 74-76	205	226	95	-----
TR98-11 76-78	205	226	35	-----
TR98-11 78-80	205	226	< 5	-----
TR98-11 80-82	205	226	60	-----
TR98-11 82-84	205	226	< 5	-----
TR98-11 84-86	205	226	< 5	-----
TR98-11 86-88	205	226	15	-----
TR98-11 88-90	205	226	40	-----
TR98-11 90-92	205	226	90	-----
TR98-11 92-94	205	226	20	-----
TR98-11 94-96	205	226	45	-----
TR98-11 96-98	205	226	15	-----
TR98-11 98-100	205	226	1055	-----
TR98-11 100-102	205	226	90	-----
TR98-11 102-104	205	226	90	-----
TR98-11 104-106	205	226	30	-----
TR98-11 106-108	205	226	20	-----
TR98-11 108-110	205	226	45	-----
TR98-11 110-112	205	226	30	-----
TR98-11 112-114	205	226	15	-----
TR98-11 114-116	205	226	< 5	-----
TR98-11 116-118	205	226	< 5	-----
TR98-11 122-124	205	226	50	-----
TR98-11 124-126	205	226	270	-----
TR98-11 126-128	205	226	3270	-----

CERTIFICATION: _____

Chemex Labs Ltd.

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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : McQUESTEN
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Account :OQN

CERTIFICATE OF ANALYSIS A9821888

SAMPLE	PREP CODE		Au ppb FA+AA	Au FA g/t
TR98-11 128-130	205	226	110	-----
TR98-11 130-132	205	226	5490	-----
TR98-11 132-134	205	226	3150	-----
TR98-11 134-136	205	226	3470	-----
TR98-11 136-138	205	226	4850	-----
TR98-11 138-140	205	226	2780	-----
TR98-11 140-142	205	226	1260	-----
TR98-11 142-144	205	226	125	-----

CERTIFICATION: _____

Chemex Labs Ltd.

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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

A9821990

Comments: ATTN: RICK DIMENT

CERTIFICATE A9821990

(OQN) - VICEROY EXPLORATION (CANADA), INC.

Project: McQUESTEN 4341
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 21-JUN-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
299	11	Pulp; prepped on other workorder

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
902	11	Al2O3 %: XRF	XRF	0.01	100.00
906	11	CaO %: XRF	XRF	0.01	100.00
2590	11	Cr2O3 %: XRF	XRF	0.01	100.00
903	11	Fe2O3 %: XRF	XRF	0.01	100.00
908	11	K2O %: XRF	XRF	0.01	100.00
905	11	MgO %: XRF	XRF	0.01	100.00
1989	11	MnO %: XRF	XRF	0.01	100.00
907	11	Na2O %: XRF	XRF	0.01	100.00
909	11	P2O5 %: XRF	XRF	0.01	100.00
901	11	SiO2 %: XRF	XRF	0.01	100.00
904	11	TiO2 %: XRF	XRF	0.01	100.00
910	11	LOI %: XRF	XRF	0.01	100.00
2540	11	Total %	CALCULATION	0.01	105.00

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: VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : McQUESTEN 4341
Comments: ATTN: RICK DIMENT

Page : 1
Total : 1
Certificate Date: 21-JUN-98
Invoice No. : I9821990
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9821990

Results

SAMPLE	PREP CODE		Al2O3 % XRF	CaO % XRF	Cr2O3 % XRF	Fe2O3 % XRF	K2O % XRF	MgO % XRF	MnO % XRF	Na2O % XRF	P2O5 % XRF	SiO2 % XRF	TiO2 % XRF	LOI % XRF	TOTAL %	
TR98-01 52	299	--	15.05	4.21	< 0.01	0.90	0.94	0.34	0.01	2.46	0.04	71.83	0.15	3.54	99.47	
TR98-05 11	299	--	17.51	0.55	< 0.01	1.80	2.79	0.64	0.02	0.87	0.09	65.59	0.82	8.00	98.68	
TR98-05 37	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	
TR98-05 46	299	--	7.83	0.17	< 0.01	2.64	1.61	0.93	0.02	0.12	0.09	83.22	0.39	2.04	99.06	
TR98-09 34	299	--	5.91	1.33	< 0.01	3.54	1.18	2.20	0.04	0.33	0.07	82.97	0.28	1.59	99.44	
TR98-09 101	299	--	7.32	26.10	< 0.01	4.81	0.60	1.65	0.28	0.52	0.12	34.49	0.29	23.23	99.41	
TR98-09 140.5	299	--	4.75	0.19	< 0.01	1.34	1.05	0.49	0.01	0.03	0.03	89.59	0.19	1.51	99.18	
~~TR98-11~~ 37	299	--	1.81	0.13	< 0.01	0.67	0.31	0.06	0.01	0.02	0.02	95.41	0.21	0.78	99.43	
TR98-11 67	299	--	2.26	0.09	< 0.01	0.44	0.55	0.07	0.01	< 0.01	0.02	95.30	0.16	0.67	99.57	
TR98-11 68	299	--	1.32	0.09	< 0.01	0.49	0.30	< 0.01	0.01	< 0.01	0.03	96.76	0.09	0.71	99.80	
TR98-11 133	299	--	2.35	6.52	< 0.01	13.88	0.05	0.90	0.19	0.24	0.08	67.59	0.07	4.87	96.74	
HARVEY GULCH QZM	299	--	14.63	0.99	< 0.01	5.16	4.52	0.73	0.03	2.65	0.26	66.56	0.43	3.04	99.00	

CERTIFICATION: Hart Bielle

Chemex Labs Ltd.

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: VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

A9821189

Comments: ATTN: RICK DIMENT

CERTIFICATE A9821189

(OQN) - VICEROY EXPLORATION (CANADA), INC. *

Project: TR98-10
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 17-JUN-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	69	Geochem ring to approx 150 mesh
294	69	4-7 Kg crush and split
3202	69	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	69	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
997	1	Au g/t: 1 assay ton, grav.	FA-GRAVIMETRIC	0.07	1000.0

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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : TR98-10
Comments: ATTN: RICK DIMENT

Page : 1
Total : 2
Certificate Date: 17-JUN-98
Invoice No. : I9821189
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9821189

SAMPLE	PREP CODE	Au ppb FA+AA	Au FA g/t
TR 98-10 0-2	205 294	90	-----
TR 98-10 2-4	205 294	420	-----
TR 98-10 4-6	205 294	190	-----
TR 98-10 6-8	205 294	185	-----
TR 98-10 8-10	205 294	350	-----
TR 98-10 10-12	205 294	160	-----
TR 98-10 12-14	205 294	445	-----
TR 98-10 14-16	205 294	580	-----
TR 98-10 16-18	205 294	80	-----
TR 98-10 18-20	205 294	15	-----
TR 98-10 20-22	205 294	130	-----
TR 98-10 22-24	205 294	55	-----
TR 98-10 24-26	205 294	1030	-----
TR 98-10 26-28	205 294	45	-----
TR 98-10 28-30	205 294	555	-----
TR 98-10 30-32	205 294	5	-----
TR 98-10 32-34	205 294	< 5	-----
TR 98-10 34-36	205 294	< 5	-----
TR 98-10 36-38	205 294	5	-----
TR 98-10 38-40	205 294	10	-----
TR 98-10 40-42	205 294	< 5	-----
TR 98-10 42-44	205 294	10	-----
TR 98-10 44-46	205 294	15	-----
TR 98-10 46-48	205 294	10	-----
TR 98-10 48-50	205 294	< 5	-----
TR 98-10 50-52	205 294	5	-----
TR 98-10 52-54	205 294	10	-----
TR 98-10 54-56	205 294	5	-----
TR 98-10 56-58	205 294	< 5	-----
TR 98-10 58-60	205 294	20	-----
TR 98-10 60-62	205 294	5	-----
TR 98-10 62-64	205 294	< 5	-----
TR 98-10 64-66	205 294	240	-----
TR 98-10 66-68	205 294	590	-----
TR 98-10 68-70	205 294	455	-----
TR 98-10 70-72	205 294	200	-----
TR 98-10 72-74	205 294	655	-----
TR 98-10 74-76	205 294	80	-----
TR 98-10 76-78	205 294	280	-----
TR 98-10 78-80	205 294	1940	-----

CERTIFICATION: Thanh Vinh

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

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Y1A 4L2

Project : TR98-10
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Total :2
Certificate Date: 17-JUN-98
Invoice No. :19821189
P.O. Number :
Account :OQN

CERTIFICATE OF ANALYSIS A9821189

SAMPLE	PREP CODE		Au ppb FA+AA	Au FA g/t
TR 98-10 80-82	205	294	210	-----
TR 98-10 82-84	205	294	50	-----
TR 98-10 84-86	205	294	2610	-----
TR 98-10 86-88	205	294	>10000	21.50
TR 98-10 88-90	205	294	3660	-----
TR 98-10 90-92	205	294	2670	-----
TR 98-10 92-94	205	294	185	-----
TR 98-10 94-96	205	294	650	-----
TR 98-10 96-98	205	294	740	-----
TR 98-10 98-100	205	294	135	-----
TR 98-10 100-102	205	294	20	-----
TR 98-10 102-104	205	294	20	-----
TR 98-10 104-106	205	294	10	-----
TR 98-10 106-108	205	294	40	-----
TR 98-10 108-110	205	294	10	-----
TR 98-10 110-112	205	294	5	-----
TR 98-10 112-114	205	294	30	-----
TR 98-10 114-116	205	294	115	-----
TR 98-10 116-118	205	294	350	-----
TR 98-10 118-120	205	294	40	-----
TR 98-10 120-122	205	294	805	-----
TR 98-10 122-124	205	294	185	-----
TR 98-10 124-126	205	294	150	-----
TR 98-10 126-128	205	294	35	-----
TR 98-10 128-130	205	294	45	-----
TR 98-10 130-132	205	294	40	-----
TR 98-10 132-134	205	294	5	-----
TR 98-10 134-136	205	294	20	-----
TR 98-10 136-138	205	294	45	-----

CERTIFICATION: Mark Vonk

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

: VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

A9821203

Comments: ATTN: RICK DIMENT

CERTIFICATE A9821203

(OQN) - VICEROY EXPLORATION (CANADA), INC. *

Project: TR98-09
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 14-JUN-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	87	Geochem ring to approx 150 mesh
294	87	4-7 Kg crush and split
3202	87	Rock - save entire reject
220	87	Transferring charge
219	87	Drying charge (4-7 Kg)

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	87	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : TR98-09
Comments: ATTN: RICK DIMENT

Page :1
Total :3
Certificate Date: 14-JUN-98
Invoice No. :19821203
P.O. Number :
Account :OQN

CERTIFICATE OF ANALYSIS A9821203

SAMPLE	PREP CODE		Au ppb FA+AA
TR98-09 002-004	205	294	40
TR98-09 004-006	205	294	2480
TR98-09 006-008	205	294	35
TR98-09 008-010	205	294	460
TR98-09 010-012	205	294	655
TR98-09 012-014	205	294	95
TR98-09 014-016	205	294	215
TR98-09 016-018	205	294	80
TR98-09 018-020	205	294	10
TR98-09 020-022	205	294	45
TR98-09 022-024	205	294	125
TR98-09 024-026	205	294	50
TR98-09 026-028	205	294	50
TR98-09 028-030	205	294	95
TR98-09 030-032	205	294	55
TR98-09 032-034	205	294	30
TR98-09 034-036	205	294	15
TR98-09 036-038	205	294	20
TR98-09 038-040	205	294	15
TR98-09 040-042	205	294	10
TR98-09 042-044	205	294	15
TR98-09 044-046	205	294	185
TR98-09 046-048	205	294	15
TR98-09 048-050	205	294	10
TR98-09 050-052	205	294	150
TR98-09 052-054	205	294	10
TR98-09 054-056	205	294	10
TR98-09 056-058	205	294	< 5
TR98-09 058-060	205	294	5
TR98-09 060-062	205	294	< 5
TR98-09 062-064	205	294	< 5
TR98-09 064-066	205	294	5
TR98-09 066-068	205	294	5
TR98-09 068-070	205	294	10
TR98-09 070-072	205	294	20
TR98-09 072-074	205	294	130
TR98-09 074-076	205	294	130
TR98-09 076-078	205	294	60
TR98-09 078-080	205	294	170
TR98-09 080-082	205	294	140

CERTIFICATION: Thanh Vanh

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: VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : TR98-09
Comments: ATTN: RICK DIMENT

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Total :3
Certificate Date: 14-JUN-98
Invoice No. :19821203
P.O. Number :
Account :OQN

CERTIFICATE OF ANALYSIS A9821203

SAMPLE	PREP CODE		Au ppb FA+AA
TR98-09 082-084	205	294	60
TR98-09 084-086	205	294	175
TR98-09 086-088	205	294	20
TR98-09 088-090	205	294	25
TR98-09 090-092	205	294	20
TR98-09 092-094	205	294	10
TR98-09 094-096	205	294	< 5
TR98-09 096-098	205	294	20
TR98-09 098-100	205	294	25
TR98-09 100-102	205	294	105
TR98-09 102-104	205	294	145
TR98-09 104-106	205	294	230
TR98-09 106-108	205	294	75
TR98-09 108-110	205	294	65
TR98-09 110-112	205	294	190
TR98-09 112-114	205	294	80
TR98-09 114-116	205	294	100
TR98-09 116-118	205	294	15
TR98-09 118-120	205	294	20
TR98-09 120-122	205	294	15
TR98-09 122-124	205	294	10
TR98-09 124-126	205	294	10
TR98-09 126-128	205	294	10
TR98-09 128-130	205	294	15
TR98-09 130-132	205	294	25
TR98-09 132-134	205	294	15
TR98-09 134-136	205	294	55
TR98-09 136-138	205	294	20
TR98-09 138-140	205	294	30
TR98-09 140-142	205	294	30
TR98-09 142-144	205	294	15
TR98-09 144-146	205	294	120
TR98-09 149-150	205	294	140
TR98-09 150-152	205	294	20
TR98-09 152-154	205	294	20
TR98-09 154-156	205	294	10
TR98-09 156-158	205	294	10
TR98-09 158-160	205	294	15
TR98-09 160-162	205	294	25
TR98-09 162-164	205	294	105

CERTIFICATION: Mark Vmar

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: VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : TR98-09
Comments: ATTN: RICK DIMENT

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P.O. Number :
Account :OQN

CERTIFICATE OF ANALYSIS A9821203

SAMPLE	PREP CODE	Au ppb FA+AA
TR98-09 164-166	205 294	35
TR98-09 166-168	205 294	15
TR98-09 168-170	205 294	30
TR98-09 170-172	205 294	25
TR98-09 172-174	205 294	25
TR98-09 174-176	205 294	20
TR98-09 176-178	205 294	10

CERTIFICATION:

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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

A9821215

Comments: ATTN: RICK DIMENT

CERTIFICATE A9821215

(OQN) - VICEROY EXPLORATION (CANADA), INC.

Project: TR98-08
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 16-JUN-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	15	Geochem ring to approx 150 mesh
294	15	4-7 Kg crush and split
3202	15	Rock - save entire reject
220	15	Transferring charge
219	15	Drying charge (4-7 Kg)

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	15	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

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PHONE: 604-984-0221 FAX: 604-984-0218

VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
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Project : TR98-08
Comments: ATTN: RICK DIMENT

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Certificate Date: 16-JUN-98
Invoice No. : I9821215
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9821215

SAMPLE	PREP CODE		Au ppb FA+AA
TR 98-08 0-2	205	294	30
TR 98-08 2-4	205	294	20
TR 98-08 4-6	205	294	65
TR 98-08 6-8	205	294	95
TR 98-08 10-12	205	294	375
TR 98-08 12-14	205	294	40
TR 98-08 14-16	205	294	50
TR 98-08 16-18	205	294	20
TR 98-08 18-20	205	294	240
TR 98-08 20-22	205	294	10
TR 98-08 22-24	205	294	15
TR 98-08 24-26	205	294	5
TR 98-08 26-28	205	294	140
TR 98-08 28-30	205	294	190
TR 98-08 30-32	205	294	90

CERTIFICATION:

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: VICEROY EXPLORATION (CANADA), INC

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Y1A 4L2

A9821205

Comments: ATTN: RICK DIMENT

CERTIFICATE A9821205

(OQN) - VICEROY EXPLORATION (CANADA), INC.

Project: TR98-05
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 17-JUN-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	64	Geochem ring to approx 150 mesh
294	64	4-7 Kg crush and split
3202	64	Rock - save entire reject
220	64	Transferring charge
219	64	Drying charge (4-7 Kg)

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	64	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

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Project : TR98-05
Comments: ATTN: RICK DIMENT

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Certificate Date: 17-JUN-98
Invoice No. : I9821205
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9821205

SAMPLE	PREP CODE		Au ppb FA+AA
TR98-05 D1	205	294	20
TR98-05 D2	205	294	40
TR98-05 D3	205	294	8490
TR98-05 D4	205	294	45
TR98-05 D5	205	294	145
TR98-05 000-002	205	294	35
TR98-05 002-004	205	294	60
TR98-05 004-006	205	294	20
TR98-05 006-008	205	294	520
TR98-05 008-010	205	294	10
TR98-05 010-012	205	294	175
TR98-05 012-014	205	294	25
TR98-05 014-016	205	294	10
TR98-05 016-018	205	294	10
TR98-05 018-020	205	294	< 5
TR98-05 020-022	205	294	10
TR98-05 030-032	205	294	< 5
TR98-05 032-034	205	294	20
TR98-05 034-036	205	294	40
TR98-05 036-038	205	294	5
TR98-05 038-040A	205	294	< 5
TR98-05 038-040B	205	294	5
TR98-05 040-042	205	294	30
TR98-05 042-044	205	294	35
TR98-05 044-046	205	294	30
TR98-05 046-47.5	205	294	< 5
TR98-05 47.5-048	205	294	10
TR98-05 048-050A	205	294	< 5
TR98-05 048-050B	205	294	10
TR98-05 050-052	205	294	15
TR98-05 052-054	205	294	40
TR98-05 054-056	205	294	30
TR98-05 056-058	205	294	6780
TR98-05 058-060	205	294	475
TR98-05 060-062	205	294	130
TR98-05 062-064	205	294	20
TR98-05 064-066	205	294	15
TR98-05 066-068	205	294	20
TR98-05 068-070	205	294	45
TR98-05 070-072	205	294	75

CERTIFICATION: Mark Vinh

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: VICEROY EXPLORATION (CANADA), INC

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Y1A 4L2

Project : TR98-05
Comments: ATTN: RICK DIMENT

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Total : 2
Certificate Date: 17-JUN-98
Invoice No. : I9821205
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9821205

SAMPLE	PREP CODE	Au ppb FA+AA
TR98-05 072-074	205 294	40
TR98-05 074-075	205 294	10
TR98-05 074-076	205 294	80
TR98-05 075-076	205 294	50
TR98-05 076-078	205 294	210
TR98-05 078-079	205 294	85
TR98-05 079-080	205 294	50
TR98-05 080-082	205 294	90
TR98-05 082-084	205 294	20
TR98-05 084-086	205 294	35
TR98-05 086-088	205 294	5
TR98-05 088-090	205 294	10
TR98-05 090-092	205 294	50
TR98-05 092-094	205 294	40
TR98-05 094-096	205 294	40
TR98-05 096-098	205 294	25
TR98-05 098-100	205 294	20
TR98-05 100-102	205 294	10
TR98-05 102-104	205 294	20
TR98-05 104-106	205 294	5
TR98-05 106-108	205 294	< 5
TR98-05 108-110	205 294	10
TR98-05 110-112	205 294	15
TR98-05 112-114	205 294	45

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ICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

A9821073

Comments: ATTN: RICK DIMENT

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

A9821204

Comments: ATTN: RICK DIMENT

CERTIFICATE A9821204

(OQN) - VICEROY EXPLORATION (CANADA), INC.

Project: TR98-07
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 16-JUN-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	71	Geochem ring to approx 150 mesh
294	71	4-7 Kg crush and split
3202	71	Rock - save entire reject
220	71	Transferring charge
219	71	Drying charge (4-7 Kg)

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	71	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

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: VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
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Y1A 4L2

Project : TR98-07
Comments: ATTN: RICK DIMENT

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Total :2
Certificate Date: 16-JUN-98
Invoice No. : I9821204
P.O. Number :
Account :OQN

CERTIFICATE OF ANALYSIS A9821204

SAMPLE	PREP CODE		Au ppb FA+AA
TR98-07 D1	205	294	140
TR98-07 D2	205	294	600
TR98-07 D3	205	294	25
TR98-07 D4	205	294	620
TR98-07 D5	205	294	60
TR98-07 D6	205	294	10
TR98-07 000-002	205	294	155
TR98-07 002-004	205	294	20
TR98-07 004-006	205	294	15
TR98-07 008-010	205	294	155
TR98-07 010-012	205	294	215
TR98-07 012-014	205	294	450
TR98-07 014-016	205	294	60
TR98-07 016-018	205	294	420
TR98-07 026-028	205	294	770
TR98-07 028-030	205	294	155
TR98-07 030-032	205	294	10
TR98-07 032-034	205	294	25
TR98-07 034-036	205	294	600
TR98-07 036-038	205	294	210
TR98-07 038-040	205	294	1140
TR98-07 040-042	205	294	1910
TR98-07 042-044	205	294	70
TR98-07 044-046	205	294	25
TR98-07 046-048	205	294	< 5
TR98-07 048-050	205	294	< 5
TR98-07 050-051	205	294	< 5
TR98-07 051-052	205	294	35
TR98-07 052-054	205	294	15
TR98-07 054-056	205	294	5
TR98-07 056-058	205	294	50
TR98-07 058-59.5	205	294	90
TR98-07 59.5-060	205	294	65
TR98-07 060-062	205	294	1880
TR98-07 062-064	205	294	105
TR98-07 064-066	205	294	60
TR98-07 066-068	205	294	10
TR98-07 068-070	205	294	30
TR98-07 070-072	205	294	50
TR98-07 072-074	205	294	< 5

CERTIFICATION: Mark Vonk

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: VICEROY EXPLORATION (CANADA), INC

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Y1A 4L2

Project : TR98-07
Comments: ATTN: RICK DIMENT

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Total :2
Certificate Date: 16-JUN-98
Invoice No. : I9821204
P.O. Number :
Account :OQN

CERTIFICATE OF ANALYSIS A9821204

SAMPLE	PREP CODE		Au ppb FA+AA
TR98-07 074-076	205	294	5
TR98-07 076-078	205	294	15
TR98-07 078-080	205	294	10
TR98-07 080-082	205	294	10
TR98-07 082-084	205	294	10
TR98-07 084-086	205	294	1125
TR98-07 086-088	205	294	390
TR98-07 088-090	205	294	200
TR98-07 090-092	205	294	1820
TR98-07 092-094	205	294	15
TR98-07 094-096	205	294	10
TR98-07 096-098	205	294	5
TR98-07 098-100	205	294	5
TR98-07 110-112	205	294	55
TR98-07 112-114	205	294	10
TR98-07 114-116	205	294	30
TR98-07 116-118	205	294	< 5
TR98-07 118-120	205	294	< 5
TR98-07 120-122	205	294	25
TR98-07 122-124	205	294	5
TR98-07 124-126	205	294	10
TR98-07 126-128	205	294	15
TR98-07 128-130	205	294	15
TR98-07 130-132	205	294	10
TR98-07 132-134	205	294	< 5
TR98-07 134-136	205	294	45
TR98-07 136-138	205	294	15
TR98-07 138-140	205	294	5
TR98-07 140-142	205	294	< 5
TR98-07 142-144	205	294	10
TR98-07 144-146	205	294	< 5

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221 FAX: 604-984-0218

VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

A9821188

Comments: ATTN: RICK DIMENT

CERTIFICATE A9821188

(OQN) - VICEROY EXPLORATION (CANADA), INC. *

Project: TR98-08
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 15-JUN-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	51	Geochem ring to approx 150 mesh
294	51	4-7 Kg crush and split
220	51	Transferring charge
222	51	Drying charge (0-3 Kg)
3202	51	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	51	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

: VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : TR98-08
Comments: ATTN: RICK DIMENT

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Total :2
Certific ate: 15-JUN-98
Invoice No. :19821188
P.O. Number :
Account :OQN

CERTIFICATE OF ANALYSIS A9821188

SAMPLE	PREP CODE		Au ppb FA+AA
TR98-08-32-34	205	294	20
TR98-08-34-36	205	294	705
TR98-08-36-38	205	294	335
TR98-08-38-40	205	294	90
TR98-08-40-42	205	294	580
TR98-08-42-44	205	294	130
TR98-08-44-46	205	294	30
TR98-08-46-48	205	294	30
TR98-08-48-50	205	294	15
TR98-08-50-52	205	294	40
TR98-08-52-54	205	294	220
TR98-08-54-56	205	294	855
TR98-08-56-58	205	294	535
TR98-08-58-60	205	294	525
TR98-08-60-62	205	294	75
TR98-08-62-64	205	294	285
TR98-08-66-68	205	294	10
TR98-08-68-70	205	294	< 5
TR98-08-70-72	205	294	10
TR98-08-72-74	205	294	< 5
TR98-08-74-76	205	294	< 5
TR98-08-76-78	205	294	20
TR98-08-78-80	205	294	30
TR98-08-80-82	205	294	20
TR98-08-82-84	205	294	10
TR98-08-84-86	205	294	20
TR98-08-86-88	205	294	10
TR98-08-88-90	205	294	10
TR98-08-90-92	205	294	10
TR98-08-92-94	205	294	5
TR98-08-94-96	205	294	10
TR98-08-96-98	205	294	85
TR98-08-98-100	205	294	5
TR98-08-100-102	205	294	5
TR98-08-102-104	205	294	80
TR98-08-114-116	205	294	< 5
TR98-08-116-118	205	294	140
TR98-08-118-120	205	294	560
TR98-08-120-122	205	294	300
TR98-08-122-124	205	294	290

CERTIFICATION: Thank Vonk

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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : TR98-08
Comments: ATTN: RICK DIMENT

Page : 2
Total : 2
Certificate Date: 15-JUN-98
Invoice No. : 19821188
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9821188

SAMPLE	PREP CODE		Au ppb FA+AA
TR98-08-124-126	205	294	20
TR98-08-126-128	205	294	50
TR98-08-128-130	205	294	55
TR98-08-130-132	205	294	390
TR98-08-132-134	205	294	890
TR98-08-134-136	205	294	25
TR98-08-136-138	205	294	45
TR98-08-138-140	205	294	35
TR98-08-140-142	205	294	70
TR98-08-142-144	205	294	25
TR98-08-144-146	205	294	35

CERTIFICATION: Mark Vonk

ICEROY EXPLORATION (CANADA), INC
MACDONALD RD.
HORSE, YT
Y1A
604-984-0218

A9821078

Comments: ATTN: RICK DIMENT

ICATE A9821078

(OQN) - VICEROY EXPLORATION (CANADA), INC.

Project TR98-04
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 10-JUN-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	7	Geochem ring to approx 150 mesh
226	7	0-3 Kg crush and split
3202	7	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	7	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

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/ICEROY EXPLORATION (CANADA), INC

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Y1A 4L2

Project : TR98-04
Comments: ATTN: RICK DIMENT

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Certific... ...te: 10-JUN-98
Invoice No. :19821078
P.O. Number :
Account :OQN

CERTIFICATE OF ANALYSIS A9821078

SAMPLE	PREP CODE	Au ppb FA+AA
TR98-04 D1	205 226	25
TR98-04 D2	205 226	20
TR98-04 D3	205 226	175
TR98-04 D4	205 226	5
TR98-04 D5	205 226	15
TR98-04 D6	205 226	55
TR98-04 D7	205 226	20

CERTIFICATION:

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ICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

A9821074

Comments: ATTN: RICK DIMENT

CERTIFICATE A9821074

(OQN) - VICEROY EXPLORATION (CANADA), INC.

Project: TR98-06
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 10-JUN-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	52	Geochem ring to approx 150 mesh
294	52	4-7 Kg crush and split
3202	52	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	52	Au ppb: Fuse 30 g sample	FA-AAs	5	10000

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Page : 1
Total : 2
Certificate: 10-JUN-98
Invoice No. : 19821074
P.O. Number :

SAMPLE	PREP CODE		Au ppb FA+AA
TR98-03 D1	205	294	105
TR98-03 D2	205	294	10
TR98-03 0-2	205	294	1135
TR98-03 2-4	205	294	685
TR98-03 4-6	205	294	35
TR98-03 6-8	205	294	25
TR98-03 8-10	205	294	60
TR98-03 10-12	205	294	30
TR98-03 12-14	205	294	40
TR98-03 14-16	205	294	50
TR98-03 16-18	205	294	35
TR98-03 18-20	205	294	10
TR98-03 20-22	205	294	60
TR98-03 22-24	205	294	10
TR98-03 24-26	205	294	25
TR98-03 26-27	205	294	80
TR98-03 27-28	205	294	10
TR98-03 28-30	205	294	10
TR98-03 34-36	205	294	10
TR98-03 36-38	205	294	25
TR98-03 38-40	205	294	40
TR98-03 40-42	205	294	55
TR98-03 42-44	205	294	300
TR98-03 46-48B	205	294	10
TR98-03 48-50	205	294	40
TR98-03 50-52	205	294	95
TR98-03 52-54	205	294	125
TR98-03 54-56	205	294	10
TR98-03 56-58	205	294	5
TR98-03 58-60	205	294	< 5
TR98-03 60-62	205	294	10
TR98-03 62-64	205	294	45
TR98-03 64-66	205	294	20
TR98-03 66-68	205	294	< 5
TR98-03 68-70	205	294	< 5
TR98-03 70-72	205	294	< 5
TR98-03 72-74	205	294	< 5
TR98-03 74-76	205	294	< 5
TR98-03 76-78	205	294	< 5
TR98-03 78-80	205	294	< 5

CERTIFICATION: Mark Vonk

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/ICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : TR98-06
Comments: ATTN: RICK DIMENT

Page :2
Total :2
Certificate: 10-JUN-98
Invoice No. : I9821074
P.O. Number :
Account :OQN

CERTIFICATE OF ANALYSIS A9821074

SAMPLE	PREP CODE		Au ppb FA+AA
TR98-03 80-81	205	294	125
TR98-03 81-82	205	294	10
TR98-03 82-84	205	294	45
TR98-03 84-86	205	294	125
TR98-03 86-87	205	294	20
TR98-03 94-96B	205	294	20
TR98-03 96-98	205	294	25
TR98-03 98-100B	205	294	235
TR98-03 100-102	205	294	350
TR98-03 102-104	205	294	100
TR98-03B104-106B	205	294	20
TR98-03 106-108	205	294	20

CERTIFICATION:

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'ICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
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Y1A 4L2

A9821073

Comments: ATTN: RICK DIMENT

CERTIFICATE A9821073

(OQN) - VICEROY EXPLORATION (CANADA), INC. *

Project: TR98-06
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 10-JUN-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	66	Geochem ring to approx 150 mesh
294	66	4-7 Kg crush and split
3202	66	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	66	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : TR98-06
Comments: ATTN: RICK DIMENT

Page :1
Total :2
Certificate: 10-JUN-98
Invoice No. :19821073
P.O. Number :
Account :OQN

CERTIFICATE OF ANALYSIS A9821073

SAMPLE	PREP CODE		Au ppb FA+AA
TR98-06 D1	205	294	10
TR98-06 D2	205	294	430
TR98-06 D3	205	294	105
TR98-06 D4	205	294	290
TR98-06 1-2	205	294	25
TR98-06 2-4	205	294	95
TR98-06 4-6	205	294	210
TR98-06 6-8	205	294	10
TR98-06 8-10	205	294	15
TR98-06 10-12	205	294	50
TR98-06 12-13	205	294	305
TR98-06 13-14	205	294	10
TR98-06 14-16	205	294	20
TR98-06 16-18	205	294	40
TR98-06 18-19	205	294	70
TR98-06 19-20	205	294	45
TR98-06 20-22	205	294	70
TR98-06 22-24	205	294	20
TR98-06 24-26	205	294	430
TR98-06 26-28	205	294	90
TR98-06 28-29.5	205	294	80
TR98-06 29.5-30	205	294	100
TR98-06 30-32	205	294	60
TR98-06 32-34	205	294	300
TR98-06 34-36	205	294	40
TR98-06 36-37	205	294	80
TR98-06 37-38	205	294	95
TR98-06 38-40	205	294	85
TR98-06 40-42	205	294	55
TR98-06 42-44	205	294	30
TR98-06 44-46	205	294	100
TR98-06 46-48	205	294	25
TR98-06 48-50	205	294	15
TR98-06 50-52	205	294	40
TR98-06 52-54	205	294	30
TR98-06 54-56	205	294	15
TR98-06 56-58	205	294	25
TR98-06 58-59	205	294	55
TR98-06 59-60	205	294	35
TR98-06 60-62	205	294	100

CERTIFICATION:

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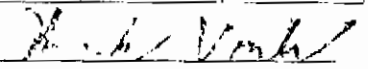
Project : TR98-06
Comments: ATTN: RICK DIMENT

Page : 2
Total : 2
Certificate : 10-JUN-98
Invoice No. : 19821073
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9821073

SAMPLE	PREP CODE		Au ppb FA+AA
TR98-06 62-64	205	294	50
TR98-06 64-66	205	294	5
TR98-06 66-68	205	294	25
TR98-06 68-70	205	294	10
TR98-06 70-72	205	294	10
TR98-06 72-74	205	294	25
TR98-06 74-76	205	294	20
TR98-06 76-78	205	294	< 5
TR98-06 78-80	205	294	< 5
TR98-06 92-94	205	294	10
TR98-06 94-96	205	294	5
TR98-06 96-98	205	294	20
TR98-06 98-100	205	294	115
TR98-06 100-102	205	294	105
TR98-06 102-104	205	294	30
TR98-06 104-106	205	294	10
TR98-06 106-108	205	294	40
TR98-06 108-110	205	294	< 5
TR98-06 110-112	205	294	< 5
TR98-06 112-114	205	294	< 5
TR98-06 114-116	205	294	5
TR98-06 116-118	205	294	5
TR98-06 118-120	205	294	10
TR98-06 120-122	205	294	10
TR98-06 122-124	205	294	< 5
TR98-06 124-126	205	294	< 5

CERTIFICATION: 

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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

A9820577

Comments: ATTN: RICK DIMENT

CERTIFICATE A9820577

(OQN) - VICEROY EXPLORATION (CANADA), INC.

Project: TR98-04 4341-03
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 5-JUN-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	44	Geochem ring to approx 150 mesh
294	44	4-7 Kg crush and split
3202	44	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	44	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : TR98-04
Comments: ATTN: RICK DIMENT

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Total : 2
Certificate Date: 05-JUN-98
Invoice No. : I9820577
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9820577

SAMPLE	PREP CODE	Au ppb FA+AA
98-04 0-2	205 294	10
98-04 2-4	205 294	5
98-04 4-6	205 294	< 5
98-04 6-8	205 294	< 5
98-04 8-10	205 294	70
98-04 10-12	205 294	40
98-04 12-14	205 294	110
98-04 14-16B	205 294	165
98-04 16-18	205 294	275
98-04 18-20	205 294	250
98-04 20-22	205 294	120
98-04 22-24	205 294	200
98-04 24-26	205 294	135
98-04 26-28	205 294	105
98-04 28-30	205 294	200
98-04 30-32	205 294	50
98-04 32-34	205 294	40
98-04 34-36	205 294	20
98-04 36-38	205 294	< 5
98-04 38-40	205 294	10
98-04 40-42	205 294	25
98-04 42-44	205 294	465
98-04 44-46	205 294	70
98-04 46-47.35	205 294	30
98-04 47.35-48	205 294	15
98-04 48-50	205 294	10
98-04 50-52	205 294	20
98-04 52-54	205 294	10
98-04 54-56	205 294	< 5
98-04 56-58	205 294	10
98-04 58-60	205 294	< 5
98-04 60-62	205 294	20
98-04 62-64	205 294	20
98-04 64-66	205 294	10
98-04 66-68	205 294	30
98-04 68-70	205 294	20
98-04 70-72	205 294	25
98-04 72-74EAST	205 294	20
98-04 72-74WEST	205 294	15
98-04 74-76	205 294	10

CERTIFICATION: Thanh Vinh

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VICEROY EXPLORATION (CANADA), INC

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Y1A 4L2

Project : TR98-04
Comments: ATTN: RICK DIMENT

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Total :2
Certificate Date: 05-JUN-98
Invoice No. :19820577
P.O. Number :
Account :OON

CERTIFICATE OF ANALYSIS A9820577

SAMPLE	PREP CODE		Au ppb FA+AA
98-04 76-78	205	294	30
98-04 78-80	205	294	25
98-04 80-82	205	294	560
98-04 82-84	205	294	30

CERTIFICATION:

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VICEROY EXPLORATION (CANADA), INC

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WHITEHORSE, YT
Y1A 4L2

A9821219

Comments: ATTN: RICK DIMENT

CERTIFICATE A9821219

(OQN) - VICEROY EXPLORATION (CANADA), INC.

Project: TR98-02
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 14-JUN-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	57	Geochem ring to approx 150 mesh
294	57	4-7 Kg crush and split
3202	57	Rock - save entire reject
220	57	Transferring charge
219	57	Drying charge (4-7 Kg)

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	57	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

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PHONE: 604-984-0221 FAX: 604-984-0218

: VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : TR98-02
Comments: ATTN: RICK DIMENT

Page :1
Total :2
Certificate Date: 14-JUN-98
Invoice No. : I9821219
P.O. Number :
Account :OQN

CERTIFICATE OF ANALYSIS A9821219

SAMPLE	PREP CODE		Au ppb FA+AA
TR 98-02 58-60	205	294	65
TR 98-02 60-62	205	294	5
TR 98-02 62-64	205	294	10
TR 98-02 64-66	205	294	< 5
TR 98-02 66-68	205	294	130
TR 98-02 68-70	205	294	10
TR 98-02 72-74	205	294	650
TR 98-02 74-76A	205	294	85
TR 98-02 76-78A	205	294	60
TR 98-02 78-80A	205	294	60
TR 98-02 80-82	205	294	60
TR 98-02 82-84	205	294	455
TR 98-02 84-86	205	294	110
TR 98-02 86-88	205	294	25
TR 98-02 88-90	205	294	240
TR 98-02 90-92	205	294	25
TR 98-02 92-94	205	294	35
TR 98-02 94-96	205	294	20
TR 98-02 96-98	205	294	305
TR 98-02 98-100	205	294	2120
TR 98-02 100-102	205	294	270
TR 98-02 102-104	205	294	145
TR 98-02 104-106	205	294	30
TR 98-02 106-108	205	294	50
TR 98-02 108-110	205	294	940
TR 98-02 110-112	205	294	310
TR 98-02 112-114	205	294	70
TR 98-02 114-116	205	294	55
TR 98-02 116-118	205	294	105
TR 98-02 118-120	205	294	90
TR 98-02 120-122	205	294	25
TR 98-02 122-124	205	294	10
TR 98-02 124-126	205	294	10
TR 98-02 126-128	205	294	20
TR 98-02 144-146	205	294	10
TR 98-02 146-148	205	294	60
TR 98-02 148-150	205	294	5
TR 98-02 150-152	205	294	< 5
TR 98-02 152-154	205	294	< 5
TR 98-02 154-156	205	294	< 5

CERTIFICATION: Jhn. A. Vonk

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PHONE: 604-984-0221 FAX: 604-984-0218

VICEROY EXPLORATION (CANADA), INC

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WHITEHORSE, YT
Y1A 4L2

Project : TR98-02
Comments: ATTN: RICK DIMENT

Certificate Date: 14-JUN-98
Invoice No. : 19821219
P.O. Number :
Account :OQN

CERTIFICATE OF ANALYSIS A9821219

SAMPLE	PREP CODE		Au ppb FA+AA
TR 98-02 156-158	205	294	< 5
TR 98-02 158-160	205	294	10
TR 98-02 160-162	205	294	< 5
TR 98-02 162-164	205	294	20
TR 98-02 164-166	205	294	700
TR 98-02 166-168	205	294	50
TR 98-02 168-170	205	294	30
TR 98-02 170-172	205	294	40
TR 98-02 172-174	205	294	35
TR 98-02 174-176	205	294	55
TR 98-02 176-178	205	294	60
TR 98-02 178-180	205	294	55
TR 98-02 180-182	205	294	50
TR 98-02 182-184	205	294	15
TR 98-02 184-186	205	294	35
TR 98-02 186-188	205	294	20
TR 98-02 188-190	205	294	< 5

CERTIFICATION:

Chemex Labs Ltd.

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PHONE: 604-984-0221 FAX: 604-984-0218

VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

A9820580

Comments: ATTN: RICK DIMENT

CERTIFICATE A9820580

(OQN) - VICEROY EXPLORATION (CANADA), INC.

Project: TR98-02 1994-03
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 4-JUN-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	26	Geochem ring to approx 150 mesh
294	26	4-7 Kg crush and split
3202	26	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	26	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

Chemex Labs Ltd.

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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : TR98-02
Comments: ATTN: RICK DIMENT

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Certificate Date: 04-JUN-98
Invoice No. : 19820580
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9820580

SAMPLE	PREP CODE		Au ppb FA+AA
98-02 0-1.7M	205	294	55
98-02 9-10	205	294	10
98-02 10-12	205	294	10
98-02 12-14	205	294	15
98-02 14-16	205	294	5
98-02 16-18	205	294	30
98-02 18-20	205	294	65
98-02 20-22	205	294	20
98-02 22-24	205	294	20
98-02 24-26	205	294	105
98-02 26-28	205	294	50
98-02 28-30	205	294	105
98-02 30-32	205	294	50
98-02 32-34	205	294	70
98-02 34-36	205	294	365
98-02 36-38	205	294	210
98-02 38-40	205	294	670
98-02 40-42	205	294	610
98-02 42-44	205	294	95
98-02 44-46	205	294	570
98-02 46-48	205	294	35
98-02 48-50	205	294	55
98-02 50-52	205	294	< 5
98-02 52-54	205	294	15
98-02 54-56	205	294	15
98-02 56-58	205	294	45

CERTIFICATION: Thanh Vinh

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VICEROY EXPLORATION (CANADA), INC

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Y1A 4L2

A9820578

Comments: ATTN: RICK DIMENT

CERTIFICATE A9820578

(OQN) - VICEROY EXPLORATION (CANADA), INC.

Project: MTTR98-02 - 4341-03
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 4-JUN-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	10	Geochem ring to approx 150 mesh
294	10	4-7 Kg crush and split
3202	10	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	10	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

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VICEROY EXPLORATION (CANADA), INC

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Y1A 4L2

Project : MTTR98-02
Comments: ATTN: RICK DIMENT

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Total : 1
Certificate Date: 04-JUN-98
Invoice No. : 19820578
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9820578

SAMPLE	PREP CODE	Au ppb FA+AA
98-02 A	205 294	10
98-02 B	205 294	2440
98-02 C	205 294	15
98-02 D	205 294	170
98-02 E	205 294	145
98-02 F	205 294	5
98-02 G	205 294	< 5
98-02 H	205 294	< 5
98-02 I	205 294	30
98-02 J	205 294	10

CERTIFICATION: _____

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'ICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

A9821075

Comments: ATTN: RICK DIMENT

CERTIFICATE A9821075

(OQN) - VICEROY EXPLORATION (CANADA), INC. *

Project: TR98-01
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 10-JUN-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	40	Geochem ring to approx 150 mesh
226	40	0-3 Kg crush and split
3202	40	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	40	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

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ICEROY EXPLORATION (CANADA), INC
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Y1A 4L2

Project : TR98-01
Comments: ATTN: RICK DIMENT

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Total : 1
Certificate Date: 10-JUN-98
Invoice No. : I9821075
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9821075

SAMPLE	PREP CODE		Au ppb FA+AA
TR98-01 06-08	205	226	65
TR98-01 08-10	205	226	220
TR98-01 10-12	205	226	70
TR98-01 12-14	205	226	70
TR98-01 14-16	205	226	75
TR98-01 16-18	205	226	50
TR98-01 18-20	205	226	30
TR98-01 20-22	205	226	65
TR98-01 22-24	205	226	70
TR98-01 24-26	205	226	10
TR98-01 26-28	205	226	10
TR98-01 33-34	205	226	35
TR98-01 36-38	205	226	450
TR98-01 38-40	205	226	60
TR98-01 40-42	205	226	30
TR98-01 42-44	205	226	10
TR98-01 44-46	205	226	< 5
TR98-01 46-48	205	226	5
TR98-01 48-50	205	226	< 5
TR98-01 50-52	205	226	< 5
TR98-01 52-54	205	226	5
TR98-01 54-56	205	226	90
TR98-01 56-58	205	226	15
TR98-01 58-60	205	226	10
TR98-01 60-62	205	226	30
TR98-01 62-64	205	226	40
TR98-01 64-66	205	226	10
TR98-01 66-68	205	226	70
TR98-01 68-70	205	226	80
TR98-01 70-72	205	226	5
TR98-01 72-74	205	226	20
TR98-01 76-78	205	226	< 5
TR98-01 78-80	205	226	5
TR98-01 80-82	205	226	5
TR98-01 82-84	205	226	5
TR98-01 84-86	205	226	35
TR98-01 86-88	205	226	< 5
TR98-01 88-90	205	226	< 5
TR98-01 90-92	205	226	< 5
TR98-01 92-93	205	226	< 5

CERTIFICATION: Mark Vonk

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VICEROY EXPLORATION (CANADA), INC

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Y1A 4L2

A9818877

Comments: ATTN: RICK DIMENT

CERTIFICATE A9818877

(OQN) - VICEROY EXPLORATION (CANADA), INC.

Project: 4341-03
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 16-MAY-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	54	Geochem ring to approx 150 mesh
226	54	0-3 Kg crush and split
3202	54	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	54	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

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VICEROY EXPLORATION (CANADA), INC

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Project : 4341-03
Comments: ATTN: RICK DIMENT

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P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9818877

SAMPLE	PREP CODE	Au ppb FA+AA
81-12 13.1-15.1	205 226	< 5
81-12 15.1-17.2	205 226	< 5
81-12 17.2-19.2	205 226	< 5
81-12 19.2-20.7	205 226	< 5
81-12 20.7-22.3	205 226	< 5
81-12 22.3-24.4	205 226	< 5
81-12 24.4-25.8	205 226	15
81-12 25.8-28.4	205 226	< 5
81-12 28.4-30.5	205 226	< 5
81-12 30.5-32.0	205 226	< 5
81-12 32.0-33.8	205 226	< 5
81-12 33.8-35.4	205 226	< 5
81-12 35.4-36.8	205 226	< 5
81-12 36.7-38.1	205 226	< 5
81-12 38.1-39.8	205 226	< 5
81-12 39.8-41.1	205 226	< 5
81-12 41.1-43.6	205 226	< 5
81-12 43.6-45.9	205 226	< 5
81-12 45.9-47.3	205 226	< 5
81-12 47.3-48.8	205 226	< 5
81-12 48.8-50.5	205 226	< 5
81-12 50.5-52.0	205 226	330
81-12 52.0-53.5	205 226	165
81-12 53.5-55.2	205 226	310
81-12 55.2-56.6	205 226	15
81-12 56.6-58.5	205 226	170
81-12 58.5-59.6	205 226	150
81-12 59.6-62.0	205 226	260
81-12 62.0-63.7	205 226	230
81-12 63.7-65.2	205 226	300
81-12 65.2-66.9	205 226	190
81-12 66.9-68.6	205 226	130
81-12 68.6-70.1	205 226	215
81-12 70.1-71.6	205 226	240
81-12 71.6-73.2	205 226	150
81-12 73.2-74.7	205 226	< 5
81-12 74.7-76.2	205 226	< 5
81-12 76.2-78.0	205 226	100
81-12 78.0-79.7	205 226	< 5
81-12 79.7-81.9	205 226	460

CERTIFICATION: Anke Vonk

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VICEROY EXPLORATION (CANADA), INC

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Y1A 4L2

Project : 4341-03
Comments: ATTN: RICK DIMENT

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P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9818877

SAMPLE	PREP CODE	Au ppb FA+AA
81-12 81.9-83.1	205 226	5
81-12 83.1-84.5	205 226	65
81-12 84.5-85.8	205 226	50
81-12 85.8-87.3	205 226	405
81-12 87.3-88.7	205 226	< 5
81-12 88.7-90.1	205 226	110
81-12 90.1-91.5	205 226	< 5
81-12 91.5-93.1	205 226	< 5
81-12 93.1-94.5	205 226	< 5
81-12 94.5-96.0	205 226	< 5
81-12 96.0-97.9	205 226	< 5
81-12 97.9-99.4	205 226	< 5
81-12 99.4-100.9	205 226	< 5
81-12 100.9-102.	205 226	< 5

CERTIFICATION:

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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

A9818857

Comments: ATTN: RICK DIMENT

CERTIFICATE A9818857

(OQN) - VICEROY EXPLORATION (CANADA), INC.

Project: 4341-03
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 15-MAY-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	10	Geochem ring to approx 150 mesh
226	10	0-3 Kg crush and split
3202	10	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	10	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

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VICEROY EXPLORATION (CANADA), INC

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Project : 4341-03
Comments: ATTN: RICK DIMENT

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Invoice No. : 19818857
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9818857

SAMPLE	PREP CODE		Au ppb FA+AA
81-14 3.7-6.4	205	226	55
81-14 6.4-7.2	205	226	90
81-14 7.2-8.7	205	226	10
81-14 8.7-10.1	205	226	60
81-14 10.1-12.2	205	226	20
81-14 12.2-14.0	205	226	75
81-14 14.0-15.2	205	226	25
81-14 22.4-23.7	205	226	3700
81-14 23.7-25.0	205	226	980
81-14 25.0-27.1	205	226	165

CERTIFICATION: Mark Vinh

Chemex Labs Ltd.

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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

A9818856

Comments: ATTN: RICK DIMENT

CERTIFICATE A9818856

(OQN) - VICEROY EXPLORATION (CANADA), INC.

Project: 4341-03
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 16-MAY-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	26	Geochem ring to approx 150 mesh
226	26	0-3 Kg crush and split
3202	26	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	26	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

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VICEROY EXPLORATION (CANADA), INC

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Project : 4341-03
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Invoice No. : I9818856
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9818856

SAMPLE	PREP CODE		Au ppb FA+AA
81-13 17.3-18.5	205	226	< 5
81-13 18.5-20.9	205	226	15
81-13 20.9-22.3	205	226	< 5
81-13 22.3-23.9	205	226	225
81-13 23.9-25.3	205	226	40
81-13 25.3-26.8	205	226	15
81-13 26.8-28.4	205	226	20
81-13 28.4-29.9	205	226	< 5
81-13 29.9-31.4	205	226	15
81-13 31.4-32.9	205	226	10
81-13 32.9-34.5	205	226	< 5
81-13 34.5-36.1	205	226	< 5
81-13 36.1-37.5	205	226	80
81-13 38.8-40.7	205	226	50
81-13 40.7-42.6	205	226	20
81-13 42.6-44.5	205	226	< 5
81-13 44.5-46.0	205	226	< 5
81-13 46.0-47.6	205	226	< 5
81-13 47.6-49.7	205	226	30
81-13 49.7-51.2	205	226	20
81-13 51.2-52.7	205	226	10
81-13 52.7-54.3	205	226	10
81-13 54.3-55.8	205	226	< 5
81-13 55.8-57.3	205	226	< 5
81-13 57.3-58.8	205	226	< 5
81-13 58.8-59.8	205	226	< 5

CERTIFICATION: Mark Vinh

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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

A9818853

Comments: ATTN: RICK DIMENT

CERTIFICATE A9818853

(OQN) - VICEROY EXPLORATION (CANADA), INC.

Project: 4341-03
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 16-MAY-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	22	Geochem ring to approx 150 mesh
226	22	0-3 Kg crush and split
3202	22	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	22	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

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VICEROY EXPLORATION (CANADA), INC

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Project : 4341-03
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Certificate Date: 16-MAY-98
Invoice No. : I9818853
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9818853

SAMPLE	PREP CODE	Au ppb FA+AA
81-11 10.1-12.3	205 226	< 5
81-11 12.3-13.8	205 226	< 5
81-11 13.8-15.2	205 226	< 5
81-11 15.2-17.4	205 226	< 5
81-11 17.4-19.1	205 226	< 5
81-11 19.1-21.3	205 226	< 5
81-11 21.3-23.0	205 226	< 5
81-11 23.0-24.7	205 226	< 5
81-11 24.7-26.8	205 226	< 5
81-11 26.8-28.8	205 226	< 5
81-11 28.8-30.8	205 226	< 5
81-11 30.8-31.7	205 226	10
81-11 31.7-33.8	205 226	15
81-11 33.8-36.3	205 226	10
81-11 36.3-38.7	205 226	30
81-11 38.7-40.1	205 226	30
81-11 40.1-41.5	205 226	25
81-11 41.5-43.0	205 226	180
81-11 43.0-44.8	205 226	50
81-11 44.8-46.3	205 226	465
81-11 46.3-48.2	205 226	130
81-11 48.2-50.4	205 226	< 5

CERTIFICATION: Thanh Vinh

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VICEROY EXPLORATION (CANADA), INC

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Y1A 4L2

A9818852

Comments: ATTN: RICK DIMENT

CERTIFICATE A9818852

(OQN) - VICEROY EXPLORATION (CANADA), INC. *

Project: 4341-03
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 18-MAY-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	46	Geochem ring to approx 150 mesh
226	46	0-3 Kg crush and split
3202	46	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	46	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

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Project : 4341-03
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Invoice No. : 19818852
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9818852

SAMPLE	PREP CODE		Au ppb FA+AA
81-10 2.1-4.9	205	226	105
81-10 4.9-7.0	205	226	< 5
81-10 7.0-8.8	205	226	25
81-10 8.8-10.1	205	226	115
81-10 10.1-12.3	205	226	80
81-10 12.3-14.6	205	226	20
81-10 14.6-16.8	205	226	45
81-10 16.8-18.3	205	226	115
81-10 19.2-20.7	205	226	100
81-10 20.7-22.3	205	226	600
81-10 22.3-24.4	205	226	30
81-10 24.4-26.6	205	226	70
81-10 32.8-34.5	205	226	30
81-10 34.5-36.4	205	226	45
81-10 37.2-38.7	205	226	50
81-10 38.7-40.2	205	226	30
81-10 40.2-41.8	205	226	115
81-10 41.8-43.3	205	226	< 5
81-10 43.3-44.8	205	226	< 5
81-10 44.8-46.5	205	226	5
81-10 46.5-48.0	205	226	5
81-10 48.0-49.7	205	226	15
81-10 49.7-51.2	205	226	115
81-10 51.2-52.3	205	226	315
81-10 53.0-54.4	205	226	45
81-10 56.0-58.8	205	226	180
81-10 58.8-60.4	205	226	370
81-10 60.4-62.7	205	226	10
81-10 62.7-64.3	205	226	15
81-10 64.3-66.6	205	226	295
81-10 66.6-68.0	205	226	30
81-10 68.0-69.4	205	226	50
81-10 69.4-71.0	205	226	925
81-10 71.0-72.6	205	226	20
81-10 72.6-74.8	205	226	15
81-10 74.8-76.4	205	226	75
81-10 76.4-78.1	205	226	40
8110 101.2-103.0	205	226	70
8110 103.0-105.8	205	226	450
8110 105.8-107.0	205	226	120

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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VICEROY EXPLORATION (CANADA), INC

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WHITEHORSE, YT
Y1A 4L2

Project : 4341-03
Comments: ATTN: RICK DIMENT

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Invoice No. : I9818852
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9818852

SAMPLE	PREP CODE		Au ppb FA+AA
8110 107.0-108.5	205	226	50
8110 108.5-110.4	205	226	45
8110 110.4-111.9	205	226	205
8110 111.9-113.4	205	226	240
8110 113.4-115.4	205	226	10
8110 115.4-116.9	205	226	30

CERTIFICATION: Thesh Vmhi

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Analytical Chemists * Geochemists * Registered Assayers
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PHONE: 604-984-0221 FAX: 604-984-0218

VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

A9818851

Comments: ATTN: RICK DIMENT

CERTIFICATE A9818851

(OQN) - VICEROY EXPLORATION (CANADA), INC.

Project: 4341-03
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 16-MAY-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	16	Geochem ring to approx 150 mesh
226	16	0-3 Kg crush and split
3202	16	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	16	Au ppb: Fuse 30 g sample	FA-AAs	5	10000

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Project : 4341-03
Comments: ATTN: RICK DIMENT

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Certificate Date: 16-MAY-98
Invoice No. : I9818851
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9818851

SAMPLE	PREP CODE		Au ppb FA+AA
81-09 1.5-3.6	205	226	75
81-09 3.6-4.3	205	226	15
81-09 4.3-6.4	205	226	< 5
81-09 6.4-8.5	205	226	< 5
81-09 8.5-10.1	205	226	< 5
81-09 10.1-12.3	205	226	< 5
81-09 12.3-13.7	205	226	< 5
81-09 13.7-15.5	205	226	< 5
81-09 15.5-17.1	205	226	< 5
81-09 17.1-19.2	205	226	10
81-09 19.2-21.5	205	226	10
81-09 21.5-23.8	205	226	< 5
81-09 23.8-24.3	205	226	20
81-09 24.3-28.8	205	226	30
81-09 28.8-30.0	205	226	300
81-09 30.0-31.7	205	226	70

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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
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Y1A 4L2

A9818850

Comments: ATTN: RICK DIMENT

CERTIFICATE A9818850

(OQN) - VICEROY EXPLORATION (CANADA), INC.

Project: 4341-03
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 16-MAY-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	12	Geochem ring to approx 150 mesh
226	12	0-3 Kg crush and split
3202	12	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	12	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

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Certificate Date: 16-MAY-98
Invoice No. : I9818850
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9818850

SAMPLE	PREP CODE		Au ppb FA+AA
8107 16.2-18.3	205	226	470
8107 86.7-87.9	205	226	25
8107 103.3-104.6	205	226	30
8107 104.6-106.1	205	226	310
8107 106.1-107.6	205	226	25
8107 107.6-109.1	205	226	20
8107 109.1-111.4	205	226	760
8107 113.6-115.4	205	226	40
8107 115.4-118.0	205	226	55
8107 118.0-119.8	205	226	180
8107 119.8-121.2	205	226	575
8107 123.0-124.9	205	226	10

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VICEROY EXPLORATION (CANADA), INC

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Y1A 4L2

A9818849

Comments: ATTN:RICK DIMENT

CERTIFICATE A9818849

(OQN) - VICEROY EXPLORATION (CANADA), INC.

Project: 4341-03
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 16-MAY-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	18	Geochem ring to approx 150 mesh
226	18	0-3 Kg crush and split
3202	18	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	18	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

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Project : 4341-03
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Account : OQN

CERTIFICATE OF ANALYSIS A9818849

SAMPLE	PREP CODE		Au ppb FA+AA
81-06 3.7-5.8	205	226	150
81-06 5.8-7.3	205	226	2940
81-06 48.5-50.2	205	226	20
81-06 50.2-51.8	205	226	10
81-06 51.8-53.5	205	226	< 5
81-06 53.5-55.2	205	226	< 5
81-06 55.2-56.7	205	226	< 5
81-06 56.7-58.2	205	226	< 5
81-06 58.2-59.8	--	--	NotRcd
81-06 62.1-64.2	205	226	< 5
81-06 66.2-67.5	205	226	< 5
81-06 67.5-69.1	205	226	10
81-06 69.1-70.7	205	226	15
81-06 78.6-80.2	205	226	80
81-06 80.2-82.8	205	226	45
81-06 82.8-84.7	205	226	75
81-06 84.7-86.7	205	226	55
81-06 86.7-88.6	205	226	165
81-06 88.6-90.9	205	226	15

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VICEROY EXPLORATION (CANADA), INC

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A9818847

Comments: ATTN: RICK DIMENT

CERTIFICATE A9818847

(OQN) - VICEROY EXPLORATION (CANADA), INC.

Project: 4341-03 #B1-05
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 16-MAY-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	21	Geochem ring to approx 150 mesh
226	21	0-3 Kg crush and split
3202	21	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	21	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

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VICEROY EXPLORATION (CANADA), INC

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Project : 4341-03 #81-05
Comments: ATTN: RICK DIMENT

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Account : OQN

CERTIFICATE OF ANALYSIS A9818847

SAMPLE	PREP CODE		Au ppb FA+AA
2.1-4.0	205	226	50
4.0-6.4	205	226	30
6.4-8.2	205	226	80
8.2-10.7	205	226	160
10.7-13.1	205	226	260
13.1-14.8	205	226	115
14.8-16.2	205	226	150
16.2-18.2	205	226	< 5
18.2-20.2	205	226	< 5
20.2-22.3	205	226	50
67.7-70.3	205	226	< 5
70.3-72.1	205	226	< 5
72.1-74.1	205	226	< 5
74.1-75.6	205	226	< 5
75.6-77.1	205	226	< 5
77.1-78.7	205	226	< 5
78.7-80.2	205	226	< 5
80.2-81.9	205	226	< 5
81.9-83.4	205	226	< 5
83.4-84.8	205	226	< 5
84.8-86.3	205	226	< 5

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VICEROY EXPLORATION (CANADA), INC

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A9818300

Comments: ATTN: CARL SCHULZE

CERTIFICATE A9818300

(OQN) - VICEROY EXPLORATION (CANADA), INC.

Project: 4341-03
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 10-MAY-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	36	Geochem ring to approx 150 mesh
226	36	0-3 Kg crush and split
3202	36	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	36	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

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Account : OQN

CERTIFICATE OF ANALYSIS A9818300

SAMPLE	PREP CODE		Au ppb FA+AA
81-04 5.2-6.7	205	226	5
81-04 6.7-8.7	205	226	850
81-04 8.7-10.7	205	226	35
81-04 10.7-13.2	205	226	110
81-04 13.2-15.7	205	226	20
81-04 15.7-17.6	205	226	60
81-04 17.6-19.8	205	226	40
81-04 19.8-21.5	205	226	45
81-04 21.5-23.5	205	226	230
81-04 23.5-25.2	205	226	45
81-04 25.2-26.8	205	226	10
81-04 26.8-28.5	205	226	< 5
81-04 28.5-30.9	205	226	< 5
81-04 30.9-32.3	205	226	< 5
81-04 32.3-33.7	205	226	< 5
81-04 33.7-35.1	205	226	< 5
81-04 35.1-36.9	205	226	< 5
81-04 36.9-38.8	205	226	< 5
81-04 38.8-40.7	205	226	< 5
81-04 40.7-42.5	205	226	70
81-04 42.5-44.4	205	226	60
81-04 44.4-46.3	205	226	10
81-04 46.3-48.2	205	226	30
81-04 48.2-50.3	205	226	185
81-04 56.3-58.2	205	226	20
81-04 58.2-60.2	205	226	50
81-04 60.2-62.3	205	226	55
81-04 62.3-64.3	205	226	310
81-04 64.3-66.3	205	226	40
81-04 66.3-68.5	205	226	120
81-04 68.5-70.7	205	226	30
81-04 70.7-72.3	205	226	30
81-04 72.3-73.9	205	226	45
81-04 73.9-75.6	205	226	15
81-04 75.6-77.4	205	226	170
81-04 77.4-80.0	205	226	30

CERTIFICATION:

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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

A9818297

Comments: ATTN: CARL SCHULZE

CERTIFICATE A9818297

(OQN) - VICEROY EXPLORATION (CANADA), INC.

Project: 4341-03
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 10-MAY-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	20	Geochem ring to approx 150 mesh
226	20	0-3 Kg crush and split
3202	20	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	20	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

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VICEROY EXPLORATION (CANADA), INC

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Project : 4341-03
Comments: ATTN: CARL SCHULZE

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Invoice No. : I9818297
P.O. Number :
Account : OQN

CERTIFICATE OF ANALYSIS A9818297

SAMPLE	PREP CODE		Au ppb FA+AA
81-03 49.7-51.5	205	226	40
81-03 51.5-53.8	205	226	35
81-03 53.8-55.8	205	226	1765
81-03 55.8-57.8	205	226	90
81-03 57.8-59.8	205	226	130
81-03 59.8-62.1	205	226	70
81-03 62.1-63.7	205	226	120
81-03 63.7-66.2	205	226	30
81-03 66.2-68.6	205	226	100
81-03 68.6-70.1	205	226	160
81-03 70.1-71.6	205	226	220
81-03 71.6-74.1	205	226	90
81-03 74.1-76.5	205	226	15
81-03 76.5-78.9	205	226	35
81-03 78.9-81.4	205	226	25
81-03 81.4-83.4	205	226	10
81-03 83.4-85.4	205	226	20
81-03 85.4-87.0	205	226	60
81-03 87.0-88.7	205	226	10
81-03 88.7-89.5	205	226	100

CERTIFICATION:

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To: VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

A9818294

Comments: ATTN: CARL SCHULZE

CERTIFICATE A9818294

(OQN) - VICEROY EXPLORATION (CANADA), INC.

Project: 4341-03
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 10-MAY-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	46	Geochem ring to approx 150 mesh
226	46	0-3 Kg crush and split
3202	46	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	46	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

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PHONE: 604-984-0221 FAX: 604-984-0218

To: VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : 4341-03
Comments: ATTN: CARL SCHULZE

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P.O. Number :
Account :OQN

CERTIFICATE OF ANALYSIS A9818294

SAMPLE	PREP CODE		Au ppb FA+AA
81-02 20.5-22.6	205	226	3490
81-02 22.6-24.1	205	226	40
81-02 24.1-26.5	205	226	15
81-02 26.5-28.5	205	226	< 5
81-02 28.5-30.25	205	226	< 5
81-02 30.25-32.0	205	226	< 5
81-02 32.0-33.8	205	226	10
81-02 33.8-35.7	205	226	40
81-02 35.7-38.4	205	226	< 5
81-02 38.4-39.6	205	226	< 5
81-02 39.6-41.2	205	226	15
81-02 41.2-42.9	205	226	10
81-02 42.9-44.8	205	226	70
81-02 44.8-46.3	205	226	105
81-02 46.3-47.9	205	226	130
81-02 47.9-49.5	205	226	125
81-02 49.5-51.0	205	226	970
81-02 52.2-54.1	205	226	675
81-02 54.1-56.3	205	226	40
81-02 56.3-57.6	205	226	10
81-02 57.6-59.1	205	226	40
81-02 59.1-63.1	205	226	20
81-02 63.1-65.2	205	226	15
81-02 65.2-66.7	205	226	50
81-02 66.7-68.2	205	226	50
81-02 68.2-70.3	205	226	100
81-02 70.3-72.3	205	226	720
81-02 72.3-74.4	205	226	30
81-02 74.4-76.8	205	226	180
81-02 76.8-78.2	205	226	45
81-02 78.2-79.6	205	226	50
81-02 79.6-81.6	205	226	685
81-02 81.6-83.7	205	226	500
81-02 83.7-86.0	205	226	200
81-02 86.0-88.7	205	226	30
81-02 88.7-90.5	205	226	250
81-02 90.5-92.1	205	226	150
81-02 92.1-93.6	205	226	210
81-02 93.6-95.6	205	226	5
81-02 95.6-97.6	205	226	5

CERTIFICATION:

Chemex Labs Ltd.

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To: VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project : 4341-03
Comments: ATTN: CARL SCHULZE

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Account : OQN

CERTIFICATE OF ANALYSIS A9818294

SAMPLE	PREP CODE		Au ppb FA+AA
81-02 97.6-99.5	205	226	30
81-02 99.5-101.4	205	226	5
8102 101.4-103.3	205	226	< 5
8102 103.3-105.2	205	226	30
8102 105.2-106.7	205	226	10
8102 106.7-108.2	205	226	35

CERTIFICATION: Mark Vinh

Chemex Labs Ltd.

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ICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

A9818293

Comments: ATTN: CARL SCHULZE

CERTIFICATE A9818293

(OQN) - VICEROY EXPLORATION (CANADA), INC.

Project: 4341-03
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 10-MAY-98.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	21	Geochem ring to approx 150 mesh
226	21	0-3 Kg crush and split
3202	21	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	21	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

Chemex Labs Ltd.

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VICEROY EXPLORATION (CANADA), INC

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Project : 4341-03
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Account : OQN

CERTIFICATE OF ANALYSIS A9818293

SAMPLE	PREP CODE		Au ppb FA+AA
81-01 4.0-6.1	205	226	25
81-01 6.1-8.2	205	226	40
81-01 8.2-10.2	205	226	460
81-01 10.2-11.1	205	226	30
81-01 11.1-13.1	205	226	95
81-01 13.1-15.0	205	226	75
81-01 15.0-17.4	205	226	140
81-01 17.4-18.6	205	226	45
81-01 18.6-20.4	205	226	295
81-01 20.4-21.8	205	226	50
81-01 21.8-23.5	205	226	440
81-01 23.5-25.0	205	226	110
81-01 25.0-26.5	205	226	< 5
81-01 26.5-28.0	205	226	< 5
81-01 28.0-29.6	205	226	< 5
81-01 29.6-31.1	205	226	< 5
81-01 31.1-32.6	205	226	< 5
81-01 32.6-34.5	205	226	< 5
81-01 34.5-35.7	205	226	< 5
81-01 35.7-37.2	205	226	< 5
81-01 37.2-38.7	205	226	< 5

CERTIFICATION:

APPENDIX 4

Geological Codes

McQuesten Codes

Lithological Descriptions:

Code	Description
OVB	overburden
TILL	glacial material
FLUV	fluvial material
QTZT	quartzite; (including phyllitic quartzite [see modifiers]) where the ratio of quartzite to schist is > 2:1 or quartzite > 66% and schist is ≤ 33%
MQTS	mixed quartzite and schist, (including phyllitic quartzite [see modifiers]) where the ratio of quartzite to schist is < 2:1 or quartzite ≤ 66% and ≥ 33%
GSCT	graphitic schist; where the ratio of schist to quartzite is > 2:1 or schist ≥ 66% and quartzite is ≤ 33%
SSCT	sericitic schist; a pale buff to light grey sericitic schist with only minor graphite; ratio of schist to quartzite is > 2:1 or schist ≥ 66% and quartzite is ≤ 33%
MSCT	mixed schist; where the graphitic and sericite are individually ≥ 33% of the total schist %; where the ratio of schist to quartzite is > 2:1 or schist ≥ 66% and quartzite is ≤ 33%
LMST	limestone
GRNT	granite, buff white to greyish dykes, sills (plugs) of aplite and granite, generally quartz - feldspar (plagioclase), variable arsenopyrite, sulphides (on property generally calcareous)
GNST	greenstone; medium to dark green, microcrystalline volcanic

Unit Description

Code	Description	Age Code	Age
T	Tombstone Instrusions	elK	early-late Cretaceous
H	Hyland Group	uPz	upper Proterozoic
K	Keno Hill Quartzite	M	Mississippian
E	Earn Group	DM	Devono-Mississippian
	"mafic" bodies	Tr	Triassic

Modifier Descriptions:

M	massive
Tb	thick bands of MQZT, QTZT(Ph) and schist; bands > 1 m apart
Mb	medium bands of MQZT, QTZT(Ph) and schist; bands < 1 m apart
Fb	fine banding of MQZT, QTZT(Ph) and schist; bands < .25 m apart
Ph	QTZT bands ≤ 0.1m with schitozic partings
F	foliated, where entire section and all rock types are clearly foliated
C	calcareous, where entire section has relatively the same amount of calcareous material (may be pervasive or varialbe [in bands] but is consistant)
G	rock unit is graphitic, but not sufficient to be called a graphitic schist
Sr	rock unit contains sericite, but not sufficient to be a sericitic schist
Qs	quartz sweats, generally subparallel to foliation
Fx	fractured rock
Sk	Skarn
Hf	Hornfels

Lithology Codes:

ACIV	acid intrusive
ACTF	acid tuff
AEXV	acid extrusive
AGGS	augen gneiss

AGLM	agglomerate
ALNT	alnoite
ALSK	alaskite = leucogranite
ALVM	alluvium
AMGN	amphibolite gneiss
AMPB	amphibolite
ANDS	andesite
APLT	aplite
ARGL	argillite
ARKS	arkose
ARNT	arenite
BCIV	basic intrusive
BDRT	biotite diorite
BEXV	basic extrusive
BGDR	biotite granodiorite
BGNS	biotite gneiss
BGRT	biotite granite
BHDR	biotite-hornblende diorite
BHPP	biotite-hornblende porphyry
BPPP	biotite porphyry
BQMZ	biotite-quartz monzonite
BQZD	biotite-quartz diorite
BRCC	breccia
BSCS	biotite schist
BSLT	basalt
CCRT	clastic rock
CGLM	conglomerate
CHRT	chert
CLCT	calcite
COAL	coal
DCIT	dacite
DCPP	dacite porphyry
DIBS	diabase
DOLM	dolomite
DORT	diorite
DRGS	diorite gneiss
DUNT	dunite
DYKE	dyke
EXTV	extrusive volcanic
FBGD	foliated biotite granodiorite
FBPP	foliated biotite porphyry
FBQM	foliated biotite quartz monzonite
FDRT	foliated diorite
FGDR	foliated granodiorite
FHQM	foliated hornblende-quartz monzonite
FHGD	foliated hornblende granodiorite
FLBC	flow breccia
FLST	felsite
FPPP	feldspar porphyry
FQDR	foliated quartz diorite
FQMZ	foliated quartz monzonite
GASC	garnet schist
GBBR	gabbro
GBDR	gabbro diorite
GDGN	granodiorite gneiss
GLCM	glacial material
GNSS	gneiss
GPSC	graphite gneiss
GRCK	greywacke
GRDR	granodiorite
GRGN	granite gneiss
GRST	greenstone
GRNT	granite
GSCT	graphitic schist
GWSS	greywacke sandstone
HBDC	hornblende dacite
HBDR	hornblende diorite
HBFP	hornblende-feldspar porphyry
HBGD	hornblende granodiorite
HBGB	hornblende gabbro
HBGN	hornblende gneiss
HBLD	hornblendite
HBMZ	hornblende monzonite
HBPP	hornblende porphyry
HBQD	hornblende-quartz diorite
HBQM	hornblende-quartz monzonite
HBSC	hornblende schist
HFLS	hornfels
HSCS	hornfels schist
IEXV	intermediate extrusive
IGBT	ignimbrite
IRFM	iron-formation
JSPR	jasperoid
KFPP	potassium feldspar porphyry
LMST	limestone
MCVS	muscovite schist
MDSN	mudstone
MGMT	migmatite
MGVC	massive green volcanics
MLNT	mylonite
MNZN	monzonite = syenodiorite
MRBL	marble
MSDM	metasediments
ORGS	orthogneiss
ORQZ	orthoquartzite
OVB	overburden
PGMT	pegmatite
PLLT	phyllite
PPDC	porphyritic dacite
PPGD	porphyritic granodiorite
PPQM	porphyritic quartz monzonite
PPRY	porphyritic rhyolite
PRDT	peridotite
OTCL	pyroclastics
PYXN	pyroxenite
QFPP	quartz-feldspar porphyry
QTZT	quartzite
QZCS	quartz chlorite schist
QZDC	quartz dacite
QZDR	quartz diorite
QFP	quartz-feldspar porphyry
QZMZ	quartz monzonite = adamellite
QZPP	quartz porphyry
RDCT	rhyodacite = quartz latite = dellenite
RYLT	rhyolite
RYPP	rhyolite porphyry
SCST	schist
SDMT	sediment
SSCT	sericite schist
SHLE	shale
SKRN	skarn
SLST	siltstone
SLTE	slate
SNDS	sandstone
SRPN	serpentinite
SURF	surficial/glacial
SYNT	syenite
TCYT	trachyte
TILL	till
TNLT	tonalite
TUFF	tuff
UKNN	unknown
UMFC	ultramafic
VCCB	volcanic breccia
VLSD	volcanic sediment
VOLC	volcanics

Alteration

This section is split into two basic catagories (Alteration [including "skarn"] and Fracture Coatings).

Alteration

Weathering	Wth	overall degree of weathering including fracture coatings
Weathering colour	W_col	overall colour of the weathering, not the fresh rock colour.
Skarn	Sk	overall amount of skarn development
(the following are generally part of the skarn development)		
Amphiboles	Am	overall amount of amphibole development
Actinolite	Ac	overall amount of actinolite development
Chlorite	Ch	overall amount of chlorite development
Epidote	Ep	overall amount of epidote development
Calcium	Ca	overall amount of calcium/carbonate
Sericite	Sr	overall amount of sericite development

Fracture Coatings

FeOx	L	degree of iron oxide (incl limonite) coating
Manganese	Mn	degree of manganese coating
Calcium	Ca	degree of calcium coating

Degree of Alteration/Coating

Strong	3	s	
moderate	2	m	
weak	1	w	
trace	0	t	
present	-1	p	alteration is present, degree unknown

Minerology

Type of mineralization:

Skarn	Sk	associated with skarn development
Disseminated	D	disseminated throughout main lithology
Fracture	Fr	occurs along fracture, foliation or joint planes
Fault	Fa	occurs within and associated with fault zones
Vein	V	occurs within or on selvages of veins

Minerals

Pyrrhotite	Po
Pyrite	Py
Scheelite	Sc
Chalcopyrite	Cpy
Arsenopyrite	As

Percentage Scale

(blank or null) 0%

0	present, amount unknown	5	>10% and ≤ 15%
1	trace amount ≤ 0.5%	6	>15% and ≤ 20%
2	>0.5% and ≤ 2%	7	>20% and ≤ 30%
3	>2% and ≤ 5%	8	>30% and ≤ 50%
4	>5% and ≤ 10%	9	>50%

Colour Code:

Red, Brown:	RD-BN
Tan, Brown:	TN-BN
Buff to Brown:	BF-BN
White, Buff:	WT-BF
Grey, Blue Grey:	GY-BL-GY
Grey, Blue:	GY-BL
Olive, Green:	OL-GR
Brown:	BROWN
Black:	BLACK
Red:	RED
Pink:	PINK
Yellow:	YELLOW
Green:	GREEN
Tan:	TAN
White:	WHITE
Beige:	Bg

Structure Codes:

Sx_1x_2 denotes a planar structure, where:

x_1 is:			x_2 is:		
	b	bedding		0	bedding
	a	axial plane		1	1st phase of deformation
	c	cleavage/foliation		2	2nd phase of deformation

The structures are recorded as Sx_mx_n codes, where m = type of planar structure and n = 0, 1, 2, .. etc. Sx_1x_2 is a point observation of the orientation of a particular planar element with respect to the core axis. **n** describes the deformation phase associated with the S-surface being measured. S_0 refers to primary sedimentary bedding, S_1 refers to the axial plane cleavage formed during the first phase of deformation etc.

Lx_1x_3 denotes a linear structure, where:

x_1 is: type of linear structure:

a	fold axis	s	striation	m	mineral elongation
c	cleavage/cleavage intersection			b	bedding/cleavage intersection

x_2 is: relative age, with 0 being oldest.

Jx denotes jointing, generally crosscutting foliation
x denotes relative frequency with regards to other jointing orientations in the same general area with 0 being the most frequent or only joint set

Fx denotes a fault: F is a normal or strike slip fault; T is a thrust fault
Tx x denotes the most prevalent feature of the fault:

g	gouge	h	healed fault
b	breccia	x	gouge and crushed rock
d	crushed rock	v	void or lost material
r	rubble, coarse rock frags	c	calcite healed fault
s	silica healed fault		

Vx denotes a vein where x^1 denotes the vein type and x^2 denotes the most prevalent gangue mineral present.

X_1 Type		X_2 Gangue			
N	Normal	Q	Quartz	P	Pyrite
B	Breccia	C	Calcite		
S	Sheeted Veins	S	Siderite		
C	Crushed/gouge	B	Barite		
V	Vuggy/open	E	Quartz/Calcite		
Z	Zoned	F	Q/C/Siderite		
		G	Calcite/Siderite		

Age Codes:

Unknown		UNKNOWN
Holocene		Ho
Pleistocene		Pt
Quaternary		Q
Pliocene		Pl
Pliocene - Recent		PlR
Miocene		Mi
Miocene - late Tertiary		MiT
Neogene	N	
Oligocene	Ol	
Oligocene - Miocene		OlMi
Eocene	E	
Palaeocene		Pc
Palaeogene		P
Palaeogene - Neogene - Tertiary		PNT
Tertiary	T	
early Tertiary	eT	
lower Tertiary	lT	
Tertiary - Quaternary		TQ
Tertiary - Eocene		TE
Cenozoic	Cz	
Cretaceous	K	
early late Cretaceous		elK
upper upper Cretaceous		uuK
upper Cretaceous		uK
middle Cretaceous		mK
lower Cretaceous		lK
upper Cretaceous - Oligocene		uKOl
Cretaceous - Tertiary		KT
Jurassic		J
middle & upper Jurassic	muJ	
lower & middle Jurassic	lmJ	
upper Jurassic - lower Cretaceous		uJlK
Jurassic - Cretaceous	JK	
Triassic		Tr
upper Triassic		uTr
upper Triassic - lower Jurassic		uTrlJ
Triassic - Jurassic	TrJ	
Mesozoic	Mz	
Permian		Pr
Permian - Triassic	PrTr	
Carboniferous		C
Carboniferous - Jurassic		CJ
Carboniferous - Permian		CPr
Carboniferous - Mississippian		CM
Pennsylvanian		Pn
Pennsylvanian - Permian		PnPr
Mississippian		M
Mississippian - upper Triassic		MuTr
Devonian	D	
upper Devonian		uD
middle Devonian		mD
lower Devonian		lD
Devonian - Permian		DPr
Devonian - Mississippian		DM
Devonian - Cretaceous	DK	
Devonian - Carboniferous		DC
Silurian		S
Silurian - Devonian		SD
Ordovician		O
Ordovician - Triassic		OTr
Ordovician - Devonian	OD	
Ordovician - Silurian		OS
Ordovician - Silurian - lower Devonian		OSlD
Cambrian	Cb	
upper Cambrian		uCb
middle Cambrian		mCb
lower Cambrian		lCb
Cambrian - Devonian		CbD
Cambrian - Ordovician	CbO	
Palaeozoic		Pa
upper Palaeozoic		uPa
middle Palaeozoic		mPa
lower Palaeozoic		lPa
Hadrynian	H	
Hadrynian - Cambrian	HCb	
Helikian		Hk
Aphebian	Ab	
Proterozoic		Pz
upper Proterozoic		uPz
middle Proterozoic	mPz	
lower Proterozoic		lPz
upper Proterozoic - lower Cambrian		uPzlCb
middle & upper Proterozoic		muPz
upper Proterozoic - Palaeozoic		uPzPa
upper Proterozoic - Triassic		uPzTr
Archean		Ac
PreCambrian		pCb
Archean - Proterozoic	AcPz	

and more to come!

MAP LITHOLOGY LEGEND

QUATERNARY

OVB
Basal till composed of unsorted, subrounded to rounded pebbles, cobbles and boulders in an unconsolidated matrix of dark brown clay and silt. In several areas the till overlies small channels comprised of sand and sorted gravels from the previous interglacial period.

CLAY
Medium to dark brown clay horizon greater than three metres thick in the northeastern portion of the work area.

EARLY LATE CRETACEOUS(?)

TOMBSTONE INTRUSIONS

GRNT (91.6 +/- 0.2 m.y. based on government age dates)
Buff white, weathering rusty, fine- to medium-grained granitic dykes and sills. Phenocrysts are comprised of 1 - 5 % subrounded to rounded clear quartz crystals 1 - 5 mm in diameter and lesser 1 - 3 mm diameter subhedral white plagioclase crystals set a matrix of feldspar and quartz that is moderately calcareous. Mafic minerals are rare. The unit is typically well mineralized with 1 - 5 % sulphides consisting of pyrrhotite, arsenopyrite and pyrite that may be completely oxidized to rusty spots. Intense surface argillic alteration may be present. The unit occasionally displays a well developed foliation; the orientation consistent with other foliated units. Contacts are sharp and often irregular. On surface the intrusive is seen to both cut and conform to stratigraphy.

UPPER PROTEROZOIC

HYLAND GROUP (?) - Yusezyu Formation (within Robert Service Thrust (?))

EQZT
Blue-grey quartzite that is distinguished from other quartzite units by the presence of 10 - 30 % clear grey subrounded quartz crystals 2 - 4 mm in diameter. Fabric varies from poorly developed to a well foliated phyllitic - schistose texture. Layers range in width from millimetres to 0.25 - 1.0 m. The unit occurs largely in the western portion of the work area.

SQZT
Pale to medium grey, sometimes buff colored phyllitic to semi-massive quartzite. The phyllitic member typically has a striped appearance resulting from 0.5 cm to several cm's wide bands of quartz encompassed by dark grey, non- to weakly graphitic pelitic material. The unit is generally non-calcareous and rarely mineralized. Contacts with the MQST unit, especially the phyllitic member, are often gradational.

GQZT

Dark grey to black well foliated and lineated graphitic quartzite and graphitic schist. Occasional rusty weathering on joint surfaces. Graphitic quartzite is composed of fine (mm's) white quartz layers enclosed by graphite. Graphitic schist is more pelitic in origin. Schistose partings are often less than 2 mm apart. Bull white quartz sweats are common. Contacts may be sharp or gradational. The unit is thought to be, at least in part, structural in nature.

GFLT

Dark grey to black sheared and intensely foliated graphitic schist. Bull white ribbon quartz veinlets are common. This structural band is seen as both semi-competent rock and gouge zones up to a metre wide. Surface contacts typically cut stratigraphy at a steeper angle. The zone is believed to be the surface expression of a thrust fault or ramp.

MQZT

Intercalated well foliated buff to medium grey phyllitic quartzite and buff to tan colored sericitic schist. Schistose partings in the sericitic schist are mm's apart and in the phyllitic quartzite range up to several cm's apart. The quartzite member is composed of narrow quartz-rich bands enclosed by pelitic material. The unit is variably calcareous; carbonate content increases proximal to limey horizons (meta-limestone). Mineralization, when present, occurs as disseminations of pyrrhotite, pyrite and arsenopyrite on foliation planes and as fine disseminations and blebs within calcareous quartz-rich layers. In structurally deformed zones intense sericite alteration may be present. Minor interbeds of semi-massive quartzite may be present.

LMST

Medium to dark grey, occasionally pale grey or buff meta-limestone. White bands 2 - 10 mm wide are common. Variably recrystallized sugary texture. The LMST unit includes silty limestone. Margins may be 'skarned' and mineralized with pyrrhotite. Contacts are generally sharp and faulted with cm's bright orange limonitic and graphitic gouge.

SKARN

Pale to medium green and green-grey calc-silicate altered silty meta-limestone, calcareous phyllitic quartzite, meta-limestone and possible occasional calcareous sericitic schist horizons. The unit weathers a distinct dark rusty brown. Calc-silicate minerals include, in order of relative abundance, chlorite, amphiboles (largely actinolite), siderite, calcite and epidote. Siliceous 'skarns' are not uncommon. The unit is variably mineralized; trace - 3 % disseminated and bleb pyrrhotite with occasional traces of disseminated arsenopyrite, pyrite and chalcopyrite. 'Skarned' layers range in thickness from several cm's to metres wide. Intercalations of MQST and LMST are common.

LMSK

A composite unit of intercalated meta-limestone and 'skarn'.

MQSK

A composite unit of intercalated sericitic schist, phyllitic quartzite, 'skarn' and minor meta-limestone. 'Skarn' typically occurs in amounts subordinate to schist and quartzite.

MISSISSIPPIAN

KENO HILL QUARTZITE (?)

QTZT

Medium grey to blue-grey semi-massive to massive quartzite with intercalations of blue-grey phyllitic quartzite. Occasional white quartz stockworks may be present. The unit occurs in the northern portion of the work area and is thought to belong to the Keno Hill Quartzite unit.

UNIT	COLOR	HATCH
EQZT	50	LINE 5
GQZT	251	DASH 15 & 10
GRNT	RED	CROSS 15 & 10
GFLT	250	DASH 10, 80 degrees
LMSK	BLUE	BRICK 10
LMST	182	BRICK 10 & 5
MQST	40	BRASS 15 & 10
OVB	33	
CLAY	34	
QTZT	YELLOW	LINE 10
SKARN	CYAN	BRICK 10
SKMQ	140	BRSTONE 10
SQZT	51	LINE 5

APPENDIX 5

Report on Whole Rock Analysis and Results

McQuesten Project
Preliminary Assay Table

November 5th, 1998

ID	Sample ID	Survey from (m)	Survey to (m)	Length	Sample Type	Sample Location	Height from	Height To	Geology Lithology	Geology Modifiers	Assay Memo
TR9801	TR98-01 52	52	52		G	F			GRNT	C	relatively fresh
TR9805	TR98-05 11	11	11		G	L			GSCT		well developed actinolite
TR9805	TR98-05 37	37	37		G	L			QTZT	Hf	
TR9805	TR98-05 46	46	46		G	L			QTZT	Ph	
TR9809	TR98-09 34	34	34		G	R			SKARN		weakly chlo. ½ -1% diss po,py
TR9809	TR98-09 101	101	101		G	R			QTZT		blockier qtzt, not as well foliated
TR9809	TR98-09 140.5	140.5	140.5		G	R			QTZT		blocky up to 50cm wide beds
TR9811	TR98-11 67	67	67		G	F			QTZT	Ph	dark blue grey thinly foliated qtz crystals/eyes
TR9811	TR98-11 68	68	68		G	R			QTZT		massive pale to medium blue grey
TR9811	TR98-11 133	133	133		G	R			SKARN		mineralized 2-3% po chloritic calcareous

McQuesten Project
Preliminary Assay Table

ID	Sample ID	Survey from (m)	Survey to (m)	Certificate	Whole Rock % Al2O3	CaO	Cr2O3	Fe2O3	K2O	MgO	MnO	Na2O	P2O3	SiO2	TiO2	LOI	Total	Location Easting	Location Northing	Elevation
TR9801	TR98-01 52	52	52	A9821990	15.05	4 21	0 005	0.9	0.94	0 34	0.01	2.46	0 04	71 83	0 15	3.54	99 47	466606.12	7083905.35	727.88
TR9805	TR98-05 11	11	11	A9821990	17.51	0.55	0 005	1.8	2.79	0 64	0 02	0.87	0.09	65 59	0 82	8	98.68	466847 81	7083914.69	761.95
TR9805	TR98-05 37	37	37	A9821990	1.81	0.13	0 005	0.67	0 31	0.06	0.01	0 02	0.02	95.41	0.21	0.78	99.43	466845.42	7083940.69	756.75
TR9605	TR98-05 48	46	46	A9821990	7.83	0 17	0 005	2.64	1 61	0.93	0.02	0.12	0 09	83 22	0.39	2.04	99 06	466844.86	7083949.73	757.97
TR9809	TR98-09 34	34	34	A9821990	5.91	1 33	0 005	3.54	1.18	2.2	0 04	0.33	0.07	82 97	0 28	1.59	99.44	467205.15	7083685.69	782.27
TR9809	TR98-09 101	101	101	A9821990	7.32	26.1	0 005	4 81	0.6	1.65	0.28	0 52	0.12	34.49	0 29	23.23	99.41	467202.89	7083952 92	777.59
TR9809	TR98-09 140.5	140.5	140.5	A9821990	4.75	0.19	0.005	1.34	1 05	0.49	0.01	0 03	0 03	89 59	0.19	1.51	99.18	467202.57	7083992 47	776 81
TR9811	TR98-11 67	67	67	A9821990	2.26	0 09	0 005	0.44	0.55	0 07	0.01	0.005	0.02	95 3	0.16	0.67	99 57	466762.51	7083902.08	750.00
TR9811	TR98-11 68	68	68	A9821990	1.32	0.09	0 005	0 49	0.3	0.005	0.01	0.005	0.03	96.76	0 09	0 71	99.8	466763.51	7083902 12	750.28
TR9811	TR98-11 133	133	133	A9821990	2 35	6.52	0.005	13.88	0 05	0.9	0.19	0.24	0 08	67 59	0.07	4 87	96.74	466828.46	7083901 53	760.32

Cominco Ltd./Exploration Research Laboratory/1486 East Pender Street
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Exploration
Research Laboratory

Douglas J. Brownlee
Project Geologist
Viceroy Exploration (Canada) Inc.
20A MacDonald Road
Whitehorse, Yukon
Y1A 4L2

16 July, 1998

Dear Sir: ***RE: McQuesten Project 4341-03 / E.R.L. Job V980380R***

A total of eleven samples were submitted for microscopic study including one extra, not originally listed. They are numbered as follows:

LAB NO.	***FIELD NO.***
R98:7419	TR98-09, 101 m.
R98:7420	TR98-09, 140.5 m.
R98:7421	TR98-09, 34 m.
R98:7422	TR98-01, 52 m.
R98:7423	TR98-11, 133 m.
R98:7424	TR98-11, 68 m.
R98:7425	TR98-11, 67 m.
R98:7426	TR98-05, 11 m.
R98:7427	TR98-05, 37 m.
R98:7428	TR98-05, 46 m.
R98:7429	Harvey Gulch, QZM

Each sample was prepared as a polished thin section and the subsequent remains sent to Chemex for a variety of analyses. Each polished thin section was examined in both reflected and transmitted light. Following are microscopic descriptions of each:

Sample R98:7419.

In reflected light the opaque content of the section is about 1% and the mode is approximately as follows:

Pyrite:	99%
Pyrrhotite:	1%
Chalcopyrite:	Tr.

Euhedral grains of pyrite to 0.6 mm are typically in a particular band or layer within the rock. Pyrrhotite with associated very fine grained chalcopyrite and sphalerite is rather rare.

In transmitted light the rock is seen to be a thinly layered or banded carbonate material in which some layers contain a small percentage of quartz clastic grains in the 0.1 - 0.25 mm size range, others contain modest to significant amounts of sericite/clay. Some thin layers and bands are composed of epidote. Limonite is seen to be developed within certain layers but occurs in a variable manner.

The rock is a calcite dominated material representing sedimentation all with some thermal upgrading. It may have been in a limy sediment that has been subjected to low grade metamorphism.

Sample R98:7420.

In reflected light only one grain of pyrite about 0.25 mm is noted in this section and that grain in largely altered to Fe-oxide.

In transmitted light the rock is seen to be composed of fine grained quartz in the 50 - 150 micron size range. These grains tend to be imbricated and there is a distinct rock fabric strongly emphasized by thin lamellae of sericite. The rock is a thinly laminated, sericitic quartzite.

Sample R98:7421.

In reflected light the total opaque content is about 1% and the mode is approximately as follows:

Pyrrhotite:	+99%
Chalcopyrite:	Tr.
Sphalerite:	Tr.

Blebs of pyrrhotite in the 0.1 - 0.3 mm size range are strung out within the rock foliation. These grains are variably altered. Associated with the pyrrhotite are tiny grains of chalcopyrite and sphalerite.

In transmitted light the rock is seen to have the following approximate mode:

Quartz:	70%
Biotite:	10%
Amphibole:	10%
Epidote:	7%
Sphene:	2%
Opaques:	1%

Most grains seen in this section are in the 0.05 - 0.25 mm size range. The quartz tends to be imbricated and elongated. Biotite, although in very fine grains tends to occur in aggregates aligning itself in shears and specific lamellae in the rock. Sphene along with sulfides are in the 0.2 - 0.3 mm size range and are elongate in the foliation plane. Epidote occurs in discrete planes that are near continuous across the section. One band of amphibole in patches and aggregates up to 1 mm is between 2 - 3 mm in width.

The rock is a fine grained semi-schist with an upper greenschist metamorphic grade. Originally this rock was believed to be a fine grained siliceous sediment that is now a thinly laminated, sheared meta-quartzite.

Sample R98:7422.

In reflected light the opaque content is about 1% and the mode is approximately as follows:

Pyrrhotite:	100%
Chalcopyrite:	Tr.

Grains of pyrrhotite tend to occur in irregular patches and aggregates. These grains are in the 0.1 - 0.3 mm size range. Very rare grains of chalcopyrite are seen to occur with pyrrhotite.

In transmitted light the rock is seen to be composed of quartz and feldspar. The grains are highly irregular in shape and range from quite fine (0.1 mm) to coarse grains (1 - 2 mm). These grains are seen to be rimmed by sericite and carbonate.

The rock is a poorly sorted, quartzo-feldspathic greywacke.

Sample R98:7423.

In reflected light the opaque content is about 5% and the mode is approximately as follows:

Pyrrhotite:	99%
Chalcopyrite:	1%

Patches and ragged grains of pyrrhotite may reach 1 - 2 mm in maximum dimension. These grains are variably to extensively altered to Fe-oxides and to pyrite/marcasite. Minor amounts of chalcopyrite are noted associated with the pyrrhotite.

In transmitted light the rock is composed of knots of bull quartz to cm's in size that are fractured and rehealed by carbonate. Around this bull quartz (vein material?) are somewhat contorted bands and seams of carbonate, epidote, chlorite with significant fine grained quartz. Also, an aggregate of relatively coarse scheelite in patches as large as 5 mm are noted. The rock is altered with the development of carbonate, chlorite, epidote and Fe-oxides. The original rock is not identified in this section.

Sample R98:7424.

In reflected light the opaque content is essentially nil with the possible exception of some minute Fe-oxides that occur within the sheared lamination of the rock.

In transmitted light the rock is dominated by quartz and sheared, elongated grains typically in the 0.1 mm size range. A few grains up to 1 mm are strung out in preferred layers within the finer grained quartz. Rare grains of detrital tourmaline are noted in the 0.1 - 0.2 mm size range. The rock has some Fe-oxide concentrations along extremely thin partings that are parallel to rock bedding and local shearing. The rock is a fine grained, thinly bedded/foliated quartzite.

Sample R98:7425.

In reflected light the opaque content is seen to be essentially nil.

In transmitted light the rock is again seen to be dominated by quartz. Fine grained, imbricated groundmass quartz in the 0.5 - 0.2 mm size range is highly sheared out and contains an uneven charge of coarser, rounded to elongated quartz grains that range from 0.5 - 2.0 mm in size. Some fine seams/shears parallel to bedding planes have a sericite-clay component. The rock is a poorly sorted quartz arenite.

Sample R98:7426.

In reflected light trace amounts of opaques are noted but no sulfides. A few 50 - 100 micron size grains of Fe-oxides are widely disseminated in the rock.

In transmitted light the rock is seen to be comprised of roughly equal amounts of fine grained, imbricated quartz and thin lamellar/shear layers of graphitic-sericitic material. The interleaved quartz rich layers or bands are seen to be sheared and crenulated as evidenced by their moderate sericite components. The rock is a meta-sediment that is now a graphitic (sericitic)-quartz schist.

Sample R98:7427.

In reflected light the opaque content is negligible with virtually no sulfides noted. A very minor amount of Fe-oxide is widely disseminated in this sample. An outline of crystalline pyrite is still preserved.

In transmitted light the rock is dominated by elongate quartz grains. These grains range from 0.05 mm up to 0.25 mm. The quartz grains tend to form specific layers based on grain size. These layers range from 1 mm - 1 cm in thickness. Thin partings along the layering/foliation of the rock contain graphitic/sericitic material. Rare grains of tourmaline, sphene and zircon are indications of detrital components. This rock is a meta-quartzite.

Sample R98:7428.

In reflected light the opaque content is restricted to a few percent of Fe-oxides infilling fractures parallel to and at right angles to the layering within the rock.

In transmitted light the rock is seen to be imbricated and consists of fine grained quartz with interleaved seams of sericite. The quartz is typically in the grain size range of 0.05 - 0.25 mm. Finer and coarser grained bands of this quartz are present.

The rock is a meta-sediment and is an imbricated, sericitic quartzite.

Sample R98:7429.

In reflected light the opaque content is about 7 - 8% and the mode is approximately as follows:

Pyrite:	55%
Arsenopyrite:	25%
Pyrrhotite:	20%
Chalcopyrite:	Tr.
Sphalerite:	Tr.

Grains of arsenopyrite to 1 mm in size tend to be euhedral and are replaced in part by pyrite and pyrrhotite. Pyrite is generally anhedral and widely disseminated in the sample. These grains range from 0.2 - 0.5 mm and are sometimes partially altered to limonite. Pyrrhotite is more altered than pyrite, is associated with pyrite and usually is somewhat finer grained than pyrite. Associated with pyrrhotite is minor amounts of chalcopyrite and trace sphalerite.

In transmitted light potash feldspars to 2 mm are present in a finer grained, chaotic altered groundmass of quartz, potash feldspar and plagioclase. Some remnant crystals to 1 - 2 mm of biotite are preserved in part. Significant sericite is developed in the quartzo feldspathic matrix.

This rock is an altered, high level intrusive and maybe granitic or monzonitic in character.

DISCUSSION:

In reflected light the mineralization was found to be a modest to very minor component of each sample. The main minerals noted are pyrrhotite and pyrite. Very minor amounts of sphalerite and chalcopyrite are sometimes associated with pyrrhotite. One sample contains arsenopyrite (R98:7429). No gold was noted in the sections. One sample was seen to contain scheelite (R98:7423).

In transmitted light all but one or two rocks are seen to have been derived from a sediment. Most are meta-sediments of low grade metamorphism, although one has developed amphiboles and biotite. The rocks are now mostly somewhat sheared semi-schists and schists. Some of the original rocks are seen to be silty limestone, quartzites and greywackes.

On sample, R98:7429, is an altered igneous rock, possibly once a granite or monzonite. This sample is seen to contain the most abundant sulfide assemblage.

A number of photomicrographs have been taken to illustrate rock types and mineralogy. These are captioned and appended.

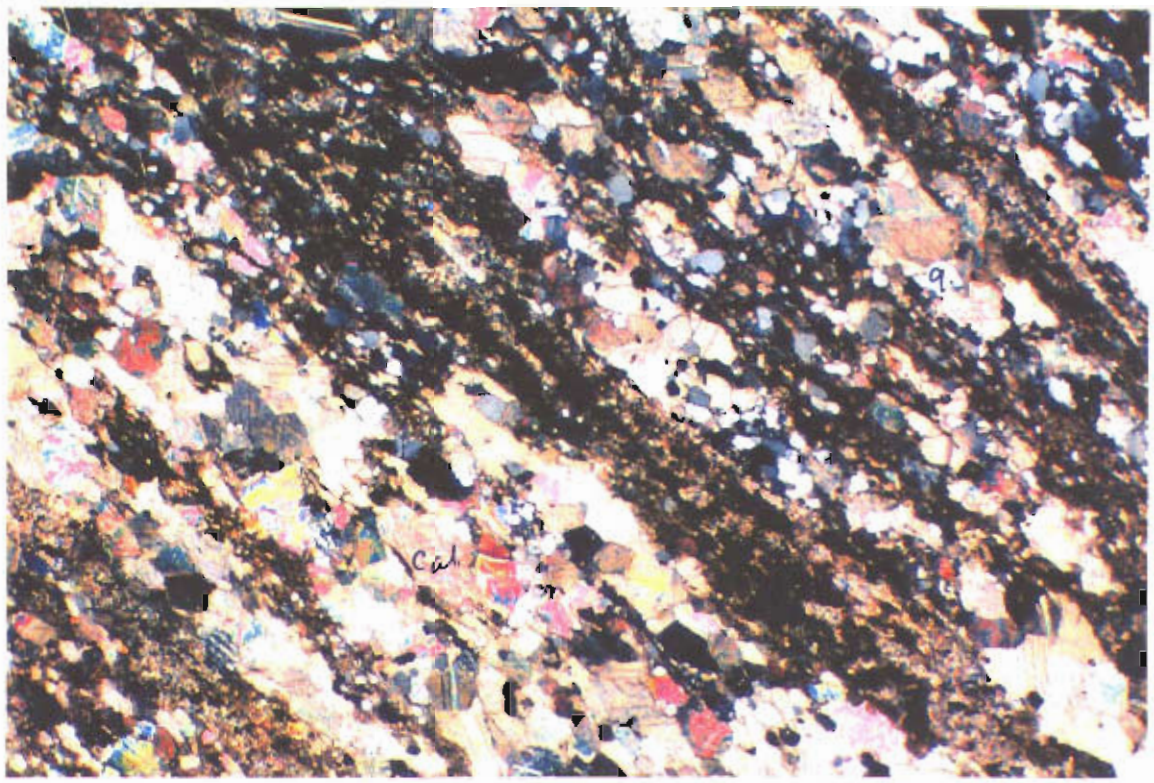
Yours truly,

J.A. McLeod, M.A.Sc. P.Eng.
E.R.L. Manager

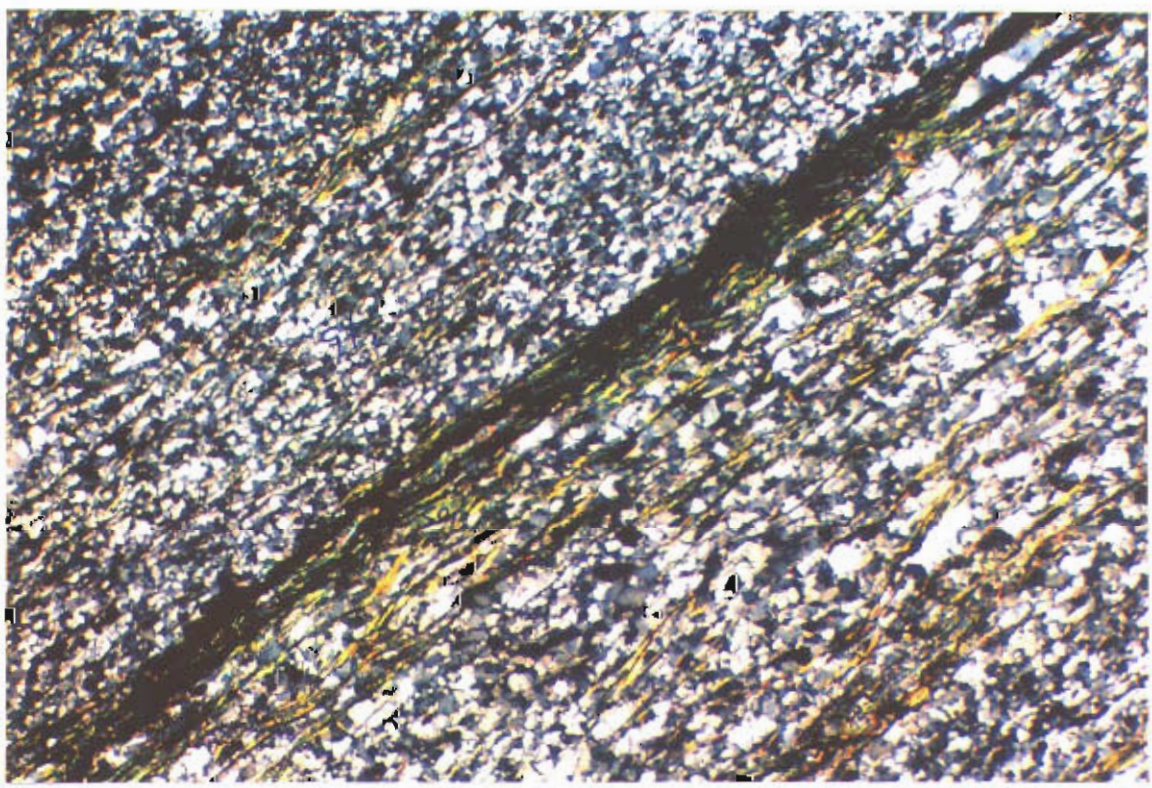
JAM/skw

Att. (photos)

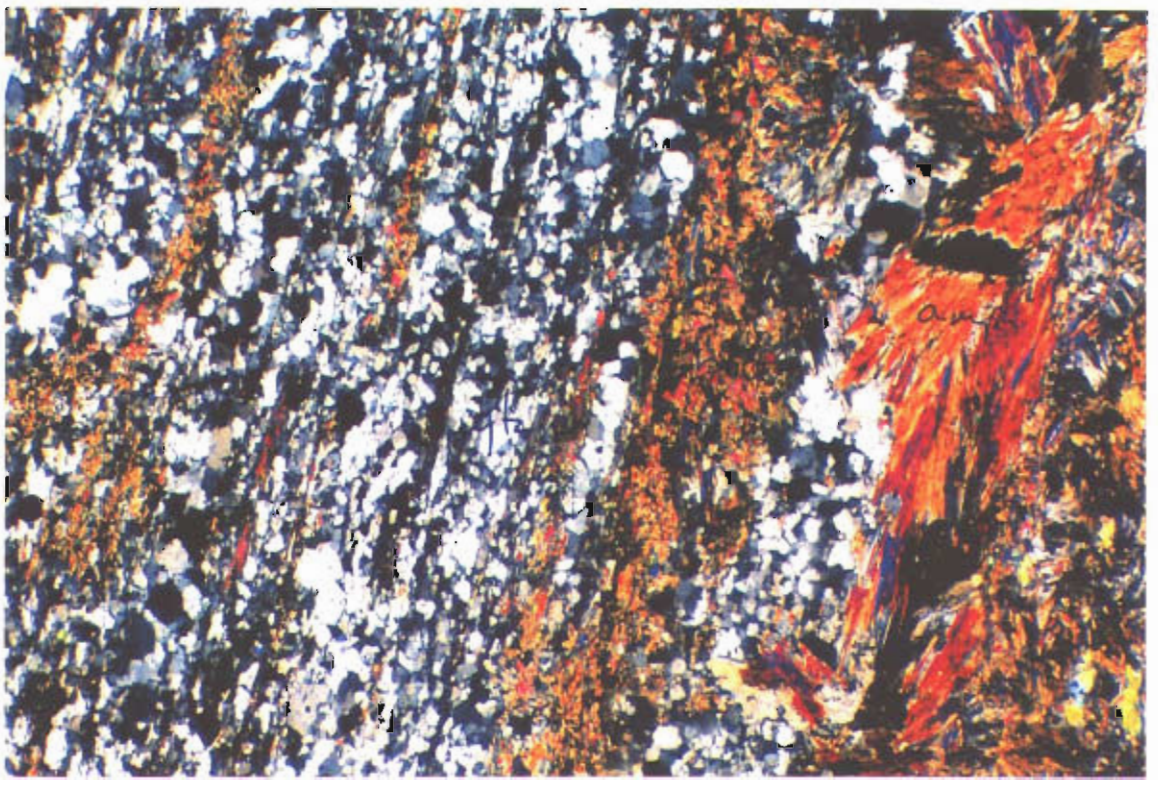
PHOTOMICROGRAPHS - VICEROY RESOURCES (V980380R)



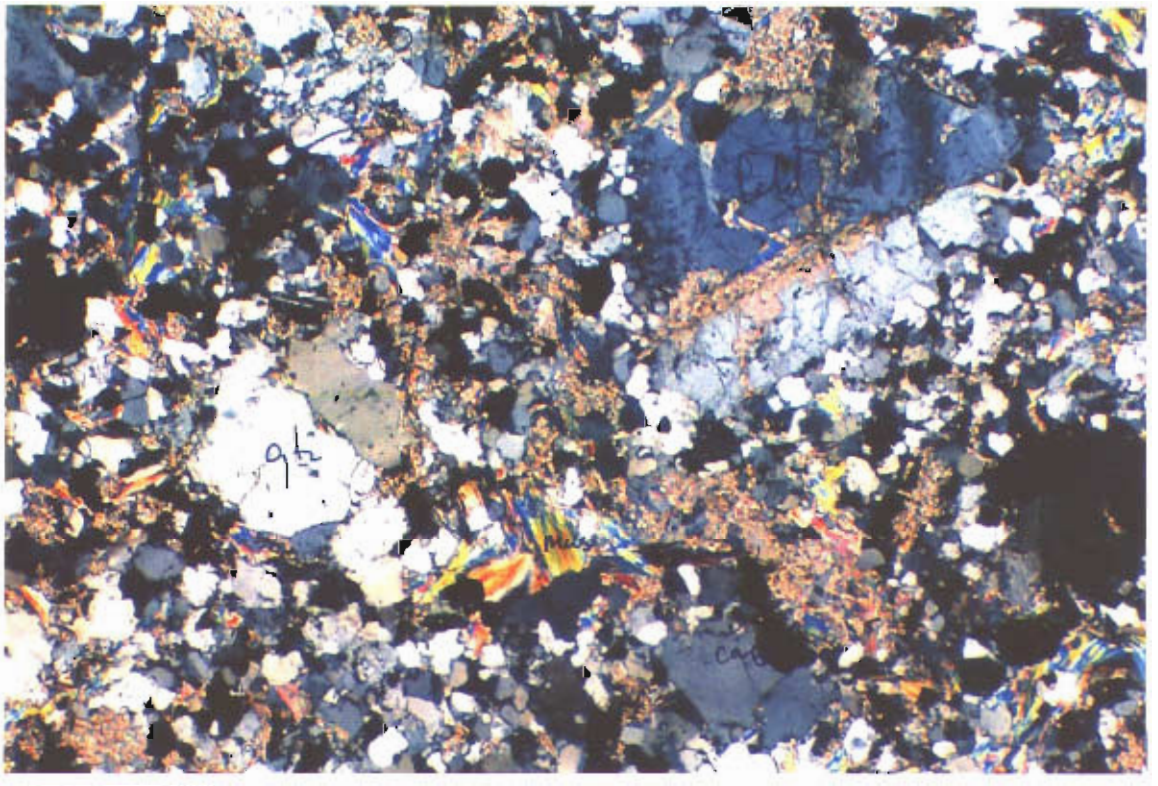
R98:7419. Banded calcite with included grains of quartz and sericite-clay bands. Transmitted light, crossed nicols, magnification 25x.



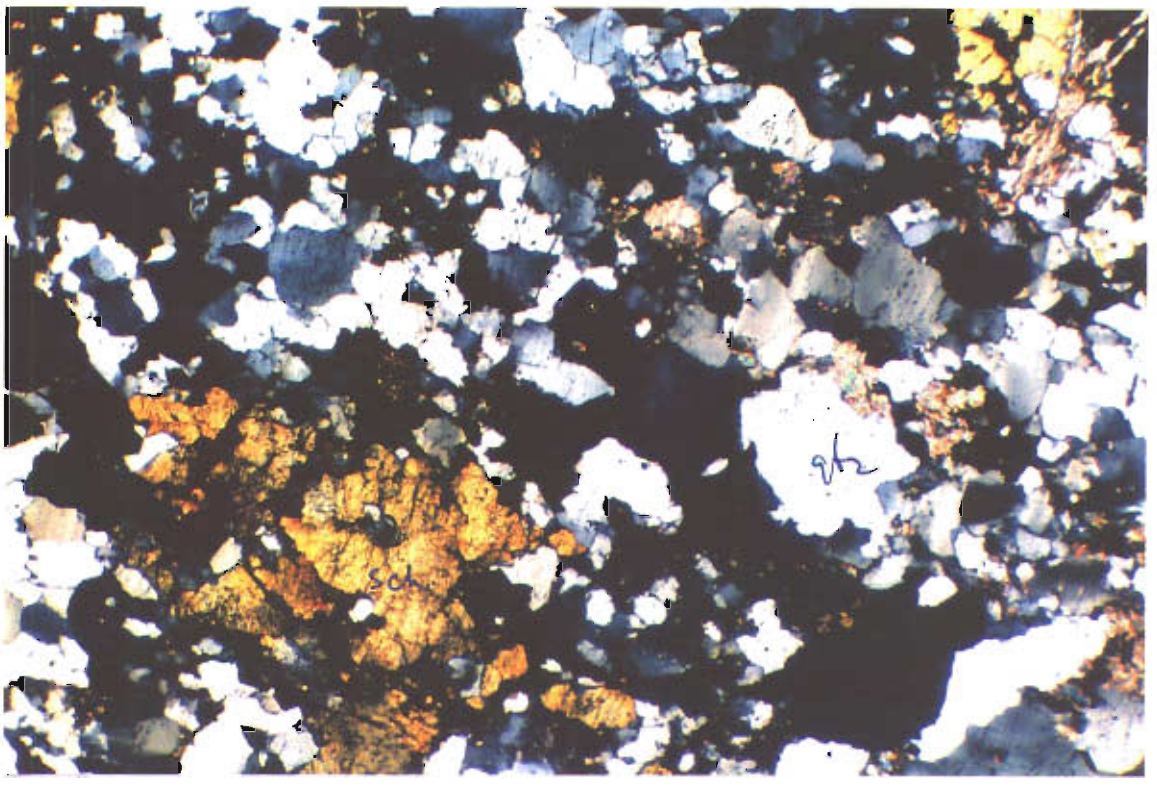
R98:7420. Banded quartz with sericite lamellae. Transmitted light, crossed nicols, magnification 25x.



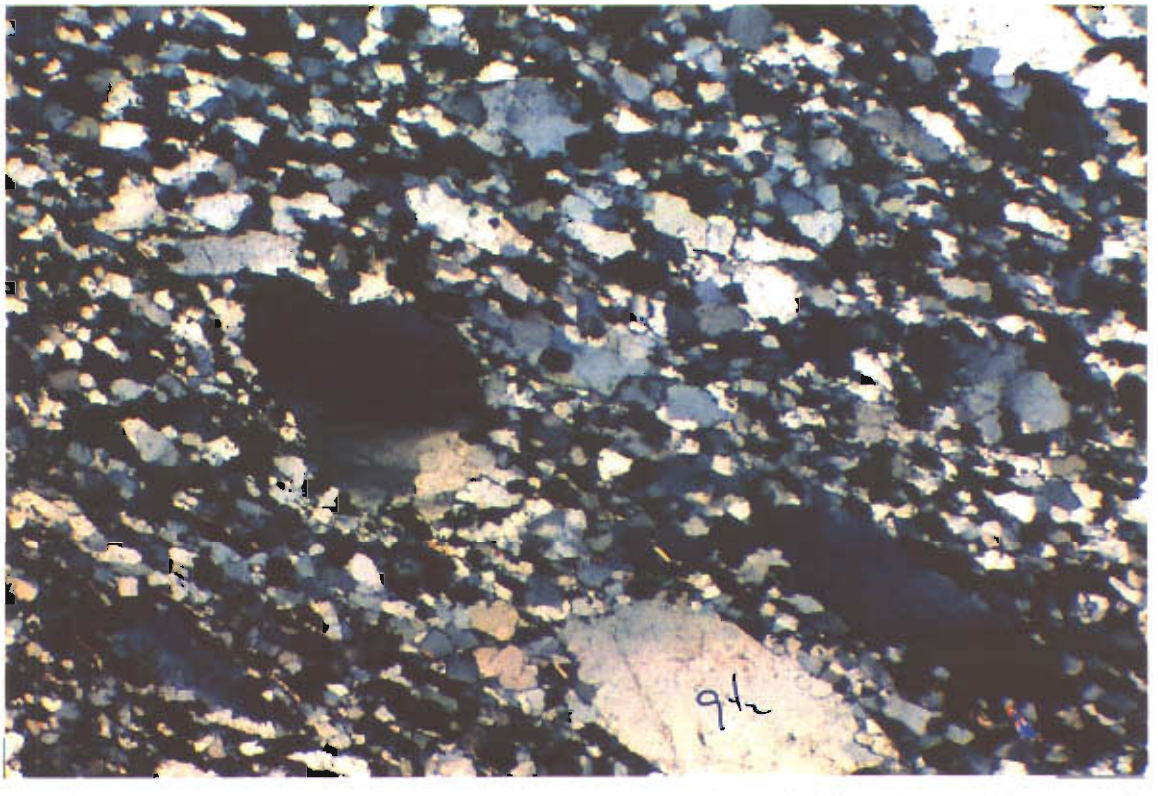
R98:7421. Amphibole, biotite and quartz layers. Transmitted light, crossed nicols, magnification 25x.



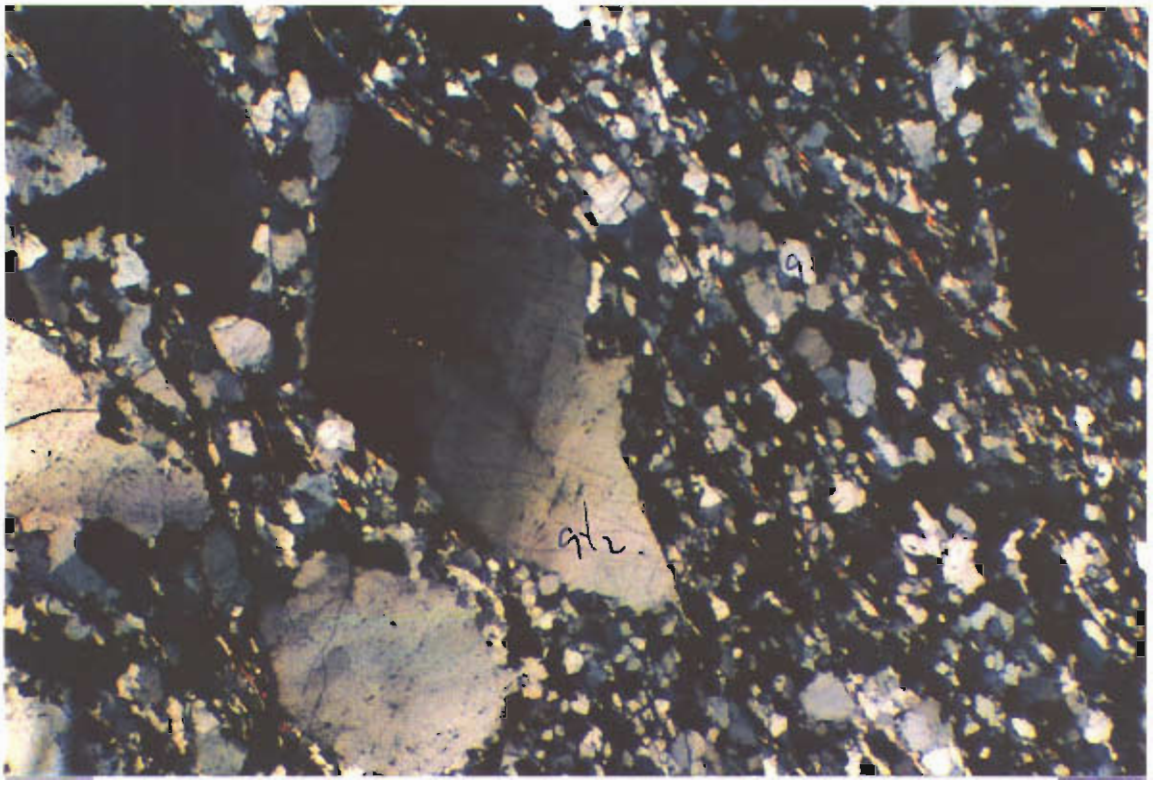
R98:7422. Feldspar grains, quartz grains all in a quartzo-feldspathic matrix with muscovite and carbonate developed. Transmitted light, crossed nicols, magnification 25x.



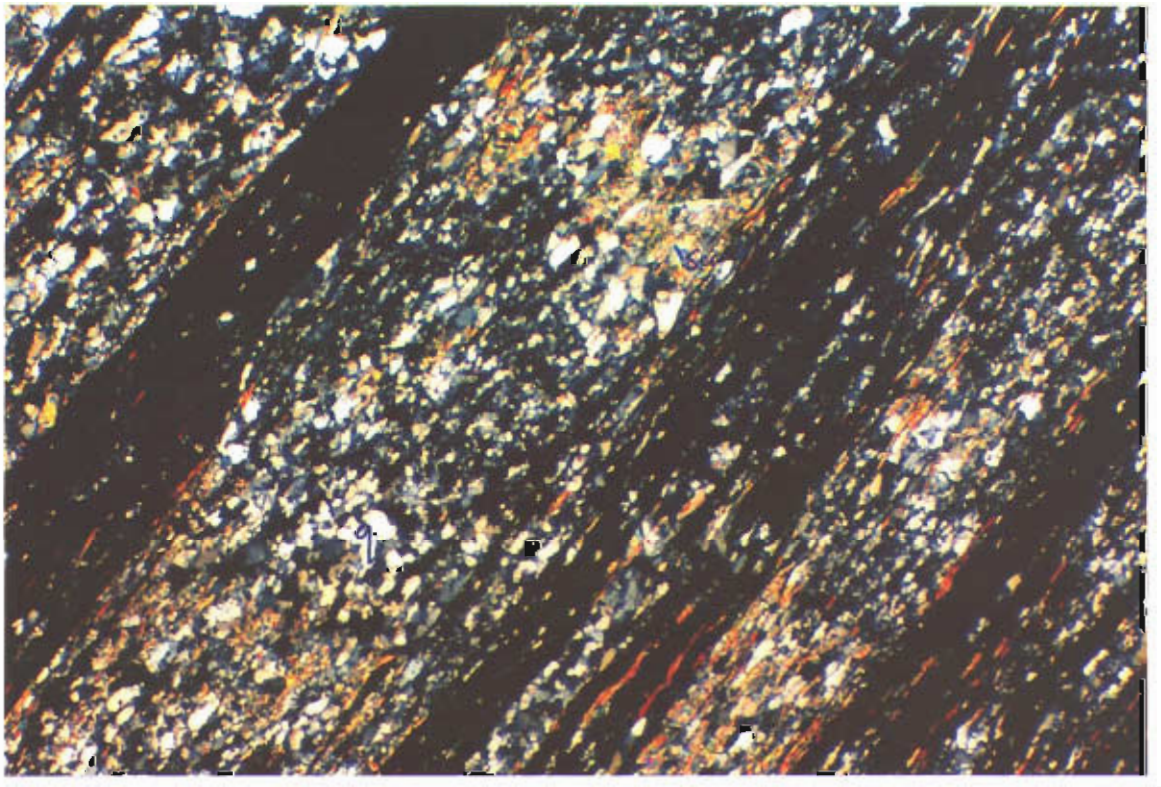
R98:7423. Scheelite in quartz rich rock. Transmitted light, crossed nicols, magnification 25x.



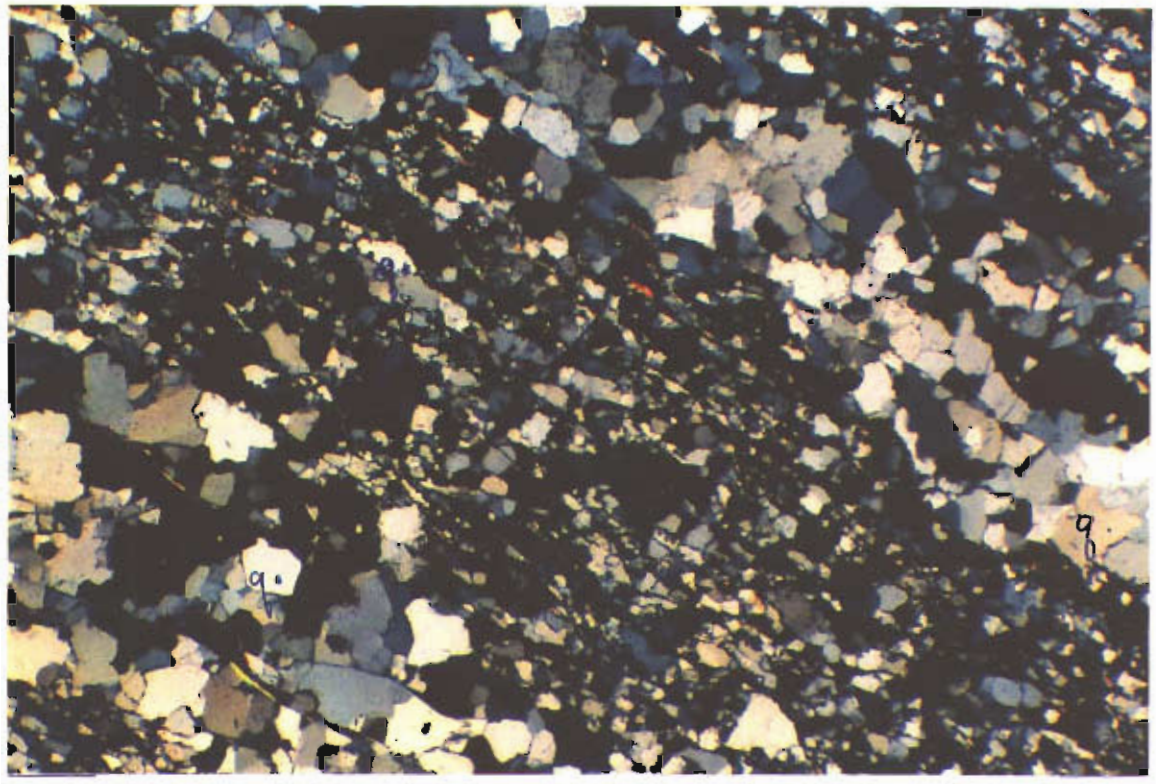
R98:7424. Strained, elongated quartz grains of variable size. A quartzite. Transmitted light, crossed nicols, magnification 25x.



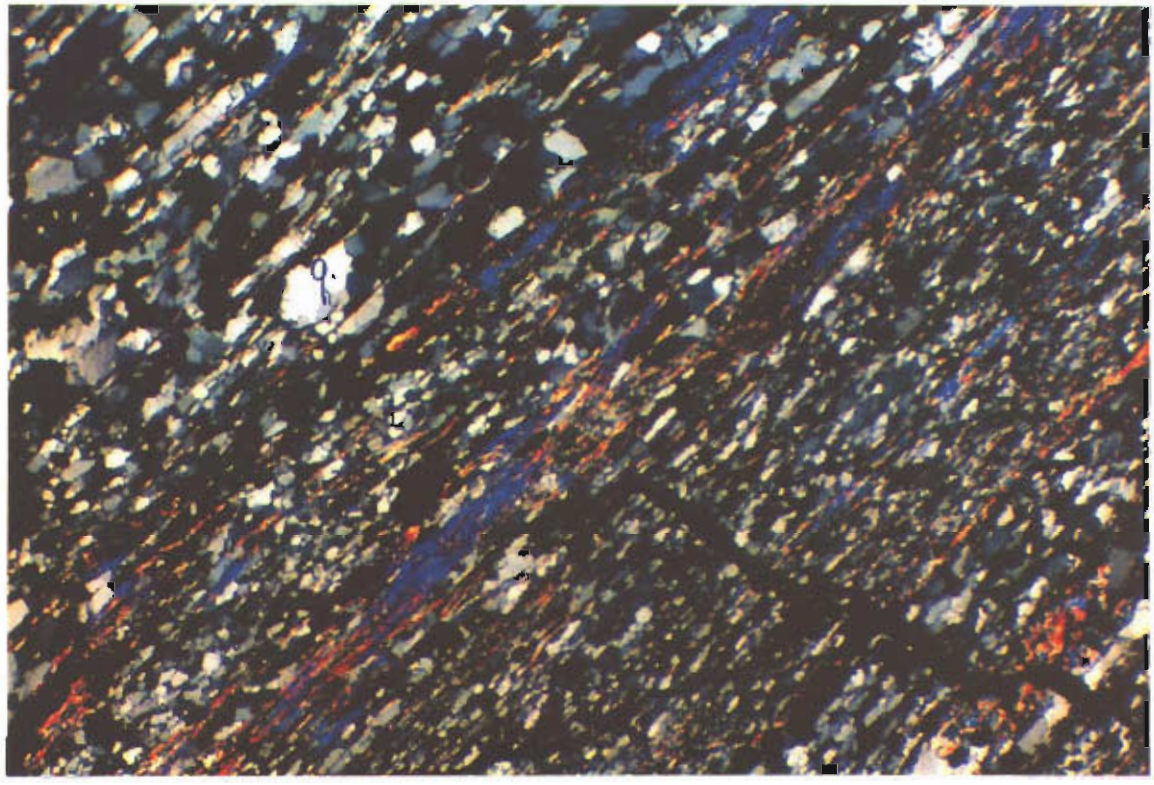
R98:7425. Poorly sorted quartzite with foliation. Transmitted light, crossed nicols, magnification 25x.



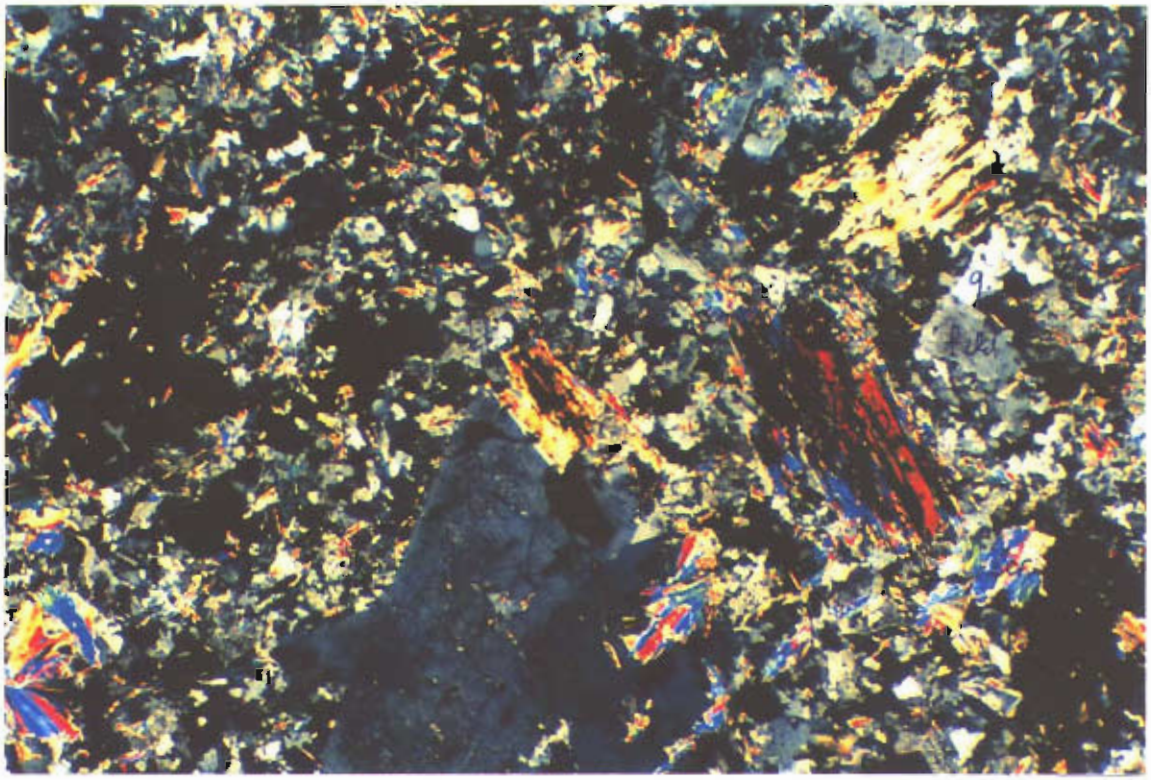
R98:7426. Graphitic-sericitic-quartzitic schist. Transmitted light, crossed nicols, magnification 25x.



R98:7427. Banded, foliated quartzite with layers defined by grain size variations. Transmitted light, crossed nicols, magnification 25x.



R98:7428. Quartz-sericite schist. Fractures cross-cut and parallel foliation. Transmitted light, crossed nicols, magnification 25x.



R98:7429. Potash feldspar crystal, altered biotite crystal in a quartzo-feldspathic matrix with some sericite developed. Transmitted light, crossed nicols, magification 25x.

APPENDIX 6

1998 Magnetometer Results

McQuesten Project
Fluxgate Survey Data

(reduced is (reading-500)/4)

Station	Utm E	Utm N	Reading	Reduced
Line1000	Line10000			
9412.5	467627.92	7083425.46	340	-40.0
9425	467626.99	7083437.97	380	-30.0
9437.5	467626.06	7083450.49	500	0.0
9450	467625.13	7083463.00	500	0.0
9462.5	467624.20	7083475.51	500	0.0
9475	467623.28	7083488.03	510	2.5
9487.5	467622.35	7083500.54	460	-10.0
9500	467621.42	7083513.06	440	-15.0
9512.5	467620.49	7083525.57	440	-15.0
9525	467619.56	7083538.08	420	-20.0
9537.5	467618.63	7083550.60	420	-20.0
9550	467617.71	7083563.11	400	-25.0
9562.5	467616.78	7083575.62	380	-30.0
9575	467615.85	7083588.14	420	-20.0
9587.5	467614.92	7083600.65	420	-20.0
9600	467613.99	7083613.17	380	-30.0
9612.5	467613.06	7083625.68	300	-50.0
9625	467612.14	7083638.19	340	-40.0
9637.5	467611.21	7083650.71	330	-42.5
9650	467610.28	7083663.22	340	-40.0
9662.5	467609.35	7083675.74	300	-50.0
9675	467608.42	7083688.25	290	-52.5
9687.5	467607.49	7083700.76	340	-40.0
9700	467606.57	7083713.28	320	-45.0
9712.5	467605.64	7083725.79	280	-55.0
9725	467604.71	7083738.30	180	-80.0
9737.5	467603.78	7083750.82	190	-77.5
9750	467602.85	7083763.33	190	-77.5
9762.5	467601.93	7083775.85	190	-77.5
9775	467601.00	7083788.36	340	-40.0
9787.5	467600.07	7083800.87	300	-50.0
9800	467599.14	7083813.39	360	-35.0
9812.5	467598.21	7083825.90	380	-30.0
9825	467597.28	7083838.41	380	-30.0
9837.5	467596.36	7083850.93	360	-35.0
9850	467595.43	7083863.44	360	-35.0
9862.5	467594.50	7083875.96	340	-40.0
9875	467593.57	7083888.47	340	-40.0
9887.5	467592.64	7083900.98	360	-35.0
9900	467591.71	7083913.50	360	-35.0
9912.5	467590.79	7083926.01	380	-30.0
9925	467589.86	7083938.52	380	-30.0
9937.5	467588.93	7083951.04	380	-30.0
9950	467588.00	7083963.55	380	-30.0
9962.5	467587.07	7083976.07	380	-30.0
9975	467586.14	7083988.58	380	-30.0
9987.5	467585.22	7084001.09	390	-27.5
10000	467584.29	7084013.61	400	-25.0
L10200E	L10200E			
9450	467808.21	7083466.40	440	-15.0
9462.5	467807.58	7083478.93	460	-10.0
9475	467806.96	7083491.46	460	-10.0
9487.5	467806.34	7083503.99	440	-15.0
9500	467805.71	7083516.52	390	-27.5

McQuesten Project
Fluxgate Survey Data

(reduced is (reading-500)/4)

Station	Utm E	Utm N	Reading	Reduced
9512.5	467805.09	7083529.05	400	-25.0
9525	467804.46	7083541.58	360	-35.0
9537.5	467803.84	7083554.11	400	-25.0
9550	467803.21	7083566.64	360	-35.0
9562.5	467802.59	7083579.17	360	-35.0
9575	467801.96	7083591.70	400	-25.0
9587.5	467801.34	7083604.23	400	-25.0
9600	467800.71	7083616.76	420	-20.0
9612.5	467800.09	7083629.30	420	-20.0
9625	467799.46	7083641.83	420	-20.0
9637.5	467798.84	7083654.36	440	-15.0
9650	467798.22	7083666.89	440	-15.0
9662.5	467797.59	7083679.42	400	-25.0
9675	467796.97	7083691.948	380	-30.0
9687.5	467796.34	7083704.479	430	-17.5
9700	467795.72	7083717.01	360	-35.0
9712.5	467795.09	7083729.54	380	-30.0
9725	467794.47	7083742.071	380	-30.0
9737.5	467793.84	7083754.601	360	-35.0
9750	467793.22	7083767.132	340	-40.0
9762.5	467792.59	7083779.663	340	-40.0
9775	467791.97	7083792.193	420	-20.0
9787.5	467791.34	7083804.724	440	-15.0
9800	467790.72	7083817.255	460	-10.0
9812.5	467790.1	7083829.785	440	-15.0
9825	467789.47	7083842.316	500	0.0
9837.5	467788.85	7083854.847	480	-5.0
9850	467788.22	7083867.377	420	-20.0
9862.5	467787.6	7083879.908	440	-15.0
9875	467786.97	7083892.438	460	-10.0
9887.5	467786.35	7083904.969	480	-5.0
9900	467785.72	7083917.5	480	-5.0
L10400E	L10400E			
9450	468004.65	7083470.53	600	25.0
9462.5	468004.02	7083483.07	600	25.0
9475	468003.40	7083495.60	600	25.0
9487.5	468002.77	7083508.13	640	35.0
9500	468002.15	7083520.66	620	30.0
9512.5	468001.52	7083533.19	620	30.0
9525	468000.90	7083545.72	600	25.0
9537.5	468000.28	7083558.25	630	32.5
9550	467999.65	7083570.78	570	17.5
9562.5	467999.03	7083583.31	650	37.5
9575	467998.40	7083595.84	450	-12.5
9587.5	467997.78	7083608.37	100	-100.0
9600	467997.15	7083620.90	460	-10.0
9612.5	467996.53	7083633.43	490	-2.5
9625	467995.90	7083645.96	520	5.0
9637.5	467995.28	7083658.49	510	2.5
9650	467994.65	7083671.02	540	10.0
9662.5	467994.03	7083683.56	600	25.0
9675	467993.40	7083696.09	600	25.0
9687.5	467992.78	7083708.617	620	30.0
9700	467992.16	7083721.147	600	25.0
9712.5	467991.53	7083733.678	580	20.0

McQuesten Project
Fluxgate Survey Data

(reduced is (reading-500)/4)

Station	Utm E	Utm N	Reading	Reduced
9725	467990.91	7083746.209	600	25.0
9737.5	467990.28	7083758.739	620	30.0
9750	467989.66	7083771.27	630	32.5
9762.5	467989.03	7083783.8	640	35.0
9775	467988.41	7083796.331	650	37.5
9787.5	467987.78	7083808.862	660	40.0
9800	467987.16	7083821.392	660	40.0
9812.5	467986.53	7083833.923	660	40.0
9825	467985.91	7083846.454	640	35.0
9837.5	467985.28	7083858.984	660	40.0
9850	467984.66	7083871.515	640	35.0
9862.5	467984.03	7083884.046	640	35.0
9875	467983.41	7083896.576	640	35.0
L10600E	L10600E			
9450	468201.09	7083474.67	500	0.0
9462.5	468200.46	7083487.20	480	-5.0
9475	468199.84	7083499.734	500	0.0
9487.5	468199.21	7083512.264	500	0.0
9500	468198.59	7083524.795	500	0.0
9512.5	468197.96	7083537.326	440	-15.0
9525	468197.34	7083549.856	420	-20.0
9537.5	468196.71	7083562.387	380	-30.0
9550	468196.09	7083574.917	340	-40.0
9562.5	468195.46	7083587.448	360	-35.0
9575	468194.84	7083599.979	400	-25.0
9587.5	468194.21	7083612.509	480	-5.0
9600	468193.59	7083625.04	500	0.0
9612.5	468192.97	7083637.571	520	5.0
9625	468192.34	7083650.101	500	0.0
9637.5	468191.72	7083662.632	500	0.0
9650	468191.09	7083675.163	460	-10.0
9662.5	468190.47	7083687.693	420	-20.0
9675	468189.84	7083700.224	400	-25.0
9687.5	468189.22	7083712.754	420	-20.0
9700	468188.59	7083725.285	480	-5.0
9712.5	468187.97	7083737.816	500	0.0
9725	468187.34	7083750.346	510	2.5
9737.5	468186.72	7083762.877	550	12.5
9750	468186.09	7083775.408	580	20.0
9762.5	468185.47	7083787.938	610	27.5
9775	468184.85	7083800.469	570	17.5
9787.5	468184.22	7083813	570	17.5
9800	468183.6	7083825.53	500	0.0
9812.5	468182.97	7083838.061	590	22.5
9825	468182.35	7083850.591	580	20.0
9837.5	468181.72	7083863.122	600	25.0
9850	468181.1	7083875.653	600	25.0
9862.5	468180.47	7083888.183	600	25.0
9875	468179.85	7083900.714	560	15.0
9887.5	468179.22	7083913.245	520	5.0
9900	468178.6	7083925.775	520	5.0
L10700E	L10700E			
9500	468296.81	7083526.86	160	-85.0
9512.5	468296.18	7083539.39	300	-50.0
9525	468295.56	7083551.93	380	-30.0

McQuesten Project
Fluxgate Survey Data

(reduced is (reading-500)/4)

Station	Utm E	Utm N	Reading	Reduced
9537.5	468294.93	7083564.46	440	-15.0
9550	468294.31	7083576.99	580	20.0
9562.5	468293.68	7083589.52	610	27.5
9575	468293.06	7083602.05	580	20.0
9587.5	468292.43	7083614.58	680	45.0
9600	468291.81	7083627.11	620	30.0
9612.5	468291.18	7083639.64	590	22.5
9625	468290.56	7083652.17	600	25.0
9637.5	468289.94	7083664.70	640	35.0
9650	468289.31	7083677.23	660	40.0
9662.5	468288.69	7083689.76	690	47.5
9675	468288.06	7083702.29	680	45.0
9687.5	468287.44	7083714.82	710	52.5
9700	468286.81	7083727.35	680	45.0
9712.5	468286.19	7083739.88	660	40.0
9725	468285.56	7083752.42	570	17.5
9737.5	468284.94	7083764.95	660	40.0
9750	468284.31	7083777.48	650	37.5
9762.5	468283.69	7083790.01	640	35.0
9775	468283.06	7083802.54	640	35.0
9787.5	468282.44	7083815.07	660	40.0
9800	468281.82	7083827.60	660	40.0
9812.5	468281.19	7083840.13	660	40.0
9825	468280.57	7083852.66	680	45.0
9837.5	468279.94	7083865.19	700	50.0
9850	468279.32	7083877.72	780	70.0
9862.5	468278.69	7083890.25	1100	100.0
9875	468278.07	7083902.78	840	85.0
9887.5	468277.44	7083915.31	720	55.0
9900	468276.82	7083927.84	700	50.0
L10800E	L10800E			
9550	468338.84	7083632.325	600	25.0
9562.5	468339.7	7083643.376	630	32.5
9575	468340.57	7083654.427	600	25.0
9587.5	468341.44	7083665.478	620	30.0
9600	468342.3	7083676.529	600	25.0
9612.5	468343.17	7083687.58	600	25.0
9625	468344.04	7083698.631	590	22.5
9637.5	468344.9	7083709.682	560	15.0
9650	468345.77	7083720.732	560	15.0
9662.5	468346.64	7083731.783	590	22.5
9675	468347.51	7083742.834	590	22.5
9687.5	468348.37	7083753.885	540	10.0
9700	468349.24	7083764.936	510	2.5
9712.5	468350.11	7083775.987	540	10.0
9725	468350.97	7083787.038	580	20.0
9737.5	468351.84	7083798.089	600	25.0
9750	468352.71	7083809.14	640	35.0
9762.5	468353.57	7083820.191	650	37.5
9775	468354.44	7083831.242	650	37.5
9787.5	468355.31	7083842.293	630	32.5
9800	468356.17	7083853.343	640	35.0
9812.5	468357.04	7083864.394	640	35.0
9825	468357.91	7083875.445	620	30.0
9837.5	468358.77	7083886.496	610	27.5

McQuesten Project
Fluxgate Survey Data

Station	Utm E	Utm N	Reading	Reduced (reduced is (reading-500)/4)
9850	468359.64	7083897.547	640	35.0
9862.5	468360.51	7083908.598	620	30.0
9875	468361.37	7083919.649	620	30.0
9887.5	468362.24	7083930.7	600	25.0
9900	468363.11	7083941.751	640	35.0
9912.5	468363.97	7083952.802	660	40.0
9925	468364.84	7083963.853	670	42.5
L10900E	L10900E			
9575	468438.79	7083656.50	640	35.0
9587.5	468439.66	7083667.55	660	40.0
9600	468440.52	7083678.60	600	25.0
9612.5	468441.39	7083689.65	640	35.0
9625	468442.26	7083700.70	640	35.0
9637.5	468443.12	7083711.75	640	35.0
9650	468443.99	7083722.80	640	35.0
9662.5	468444.86	7083733.85	630	32.5
9675	468445.72	7083744.90	650	37.5
9687.5	468446.59	7083755.95	660	40.0
9700	468447.46	7083767.01	610	27.5
9712.5	468448.32	7083778.06	550	12.5
9725	468449.19	7083789.11	520	5.0
9737.5	468450.06	7083800.16	560	15.0
9750	468450.92	7083811.21	600	25.0
9762.5	468451.79	7083822.26	650	37.5
9775	468452.66	7083833.31	660	40.0
9787.5	468453.52	7083844.36	650	37.5
9800	468454.39	7083855.41	680	45.0
9812.5	468455.26	7083866.46	680	45.0
9825	468456.12	7083877.51	640	35.0
9837.5	468456.99	7083888.57	680	45.0
9850	468457.86	7083899.62	660	40.0
9862.5	468458.73	7083910.67	680	45.0
9875	468459.59	7083921.72	680	45.0
9887.5	468460.46	7083932.77	630	32.5
9900	468461.33	7083943.82	620	30.0
9912.5	468462.19	7083954.87	680	45.0
9925	468463.06	7083965.92	660	40.0
L11000E	L11000E			
9625	468553.64	7083659.237	590	22.5
9637.5	468554.07	7083671.739	580	20.0
9650	468554.5	7083684.241	620	30.0
9662.5	468554.92	7083696.743	620	30.0
9675	468555.35	7083709.245	600	25.0
9687.5	468555.78	7083721.747	640	35.0
9700	468556.21	7083734.249	620	30.0
9712.5	468556.64	7083746.751	600	25.0
9725	468557.06	7083759.253	620	30.0
9737.5	468557.49	7083771.755	630	32.5
9750	468557.92	7083784.257	650	37.5
9762.5	468558.35	7083796.758	660	40.0
9775	468558.78	7083809.26	660	40.0
9787.5	468559.2	7083821.762	670	42.5
9800	468559.63	7083834.264	660	40.0
9812.5	468560.06	7083846.766	660	40.0
9825	468560.49	7083859.268	640	35.0

McQuesten Project
Fluxgate Survey Data

(reduced is (reading-500)/4)

Station	Utm E	Utm N	Reading	Reduced
9837.5	468560.91	7083871.77	640	35.0
9850	468561.34	7083884.272	680	45.0
9862.5	468561.77	7083896.774	650	37.5
9875	468562.2	7083909.276	640	35.0
9887.5	468562.63	7083921.778	660	40.0
9900	468563.05	7083934.28	640	35.0
9912.5	468563.48	7083946.782	580	20.0
9925	468563.91	7083959.284	640	35.0
9937.5	468564.34	7083971.786	640	35.0
9950	468564.77	7083984.288	650	37.5
L11200E	L11200E			
9400	468721.06	7083439.90	620	30.0
9412.5	468721.93	7083452.36	640	35.0
9425	468722.81	7083464.835	640	35.0
9437.5	468723.68	7083477.304	660	40.0
9450	468724.55	7083489.774	640	35.0
9462.5	468725.42	7083502.243	690	47.5
9475	468726.29	7083514.713	700	50.0
9487.5	468727.17	7083527.182	700	50.0
9500	468728.04	7083539.652	700	50.0
9512.5	468728.91	7083552.121	700	50.0
9525	468729.78	7083564.591	700	50.0
9537.5	468730.65	7083577.06	830	82.5
9550	468731.53	7083589.53	780	70.0
9562.5	468732.4	7083602	840	85.0
9575	468733.27	7083614.469	940	110.0
9587.5	468734.14	7083626.939	900	100.0
9600	468735.01	7083639.408	740	60.0
9612.5	468735.89	7083651.878	740	60.0
9625	468736.76	7083664.347	700	50.0
9637.5	468737.63	7083676.817	720	55.0
9650	468738.5	7083689.286	700	50.0
9662.5	468739.37	7083701.756	680	45.0
9675	468740.25	7083714.226	680	45.0
9687.5	468741.12	7083726.695	680	45.0
9700	468741.99	7083739.165	680	45.0
9712.5	468742.86	7083751.634	700	50.0
9725	468743.73	7083764.104	740	60.0
9737.5	468744.6	7083776.573	740	60.0
9750	468745.48	7083789.043	740	60.0
9762.5	468746.35	7083801.512	740	60.0
9775	468747.22	7083813.982	720	55.0
9787.5	468748.09	7083826.451	700	50.0
9800	468748.96	7083838.921	620	30.0
9812.5	468749.84	7083851.391	640	35.0
9825	468750.71	7083863.86	680	45.0
9837.5	468751.58	7083876.33	720	55.0
9850	468752.45	7083888.799	740	60.0
9862.5	468753.32	7083901.269	740	60.0
9875	468754.2	7083913.738	760	65.0
9887.5	468755.07	7083926.208	770	67.5
9900	468755.94	7083938.677	840	85.0
L11400E	L11400E			
9400	468938.81	7083442.48	660	40.0
9412.5	468939.24	7083454.98	660	40.0

McQuesten Project
Fluxgate Survey Data

(reduced is (reading-500)/4)

Station	Utm E	Utm N	Reading	Reduced
9425	468939.67	7083467.48	660	40.0
9437.5	468940.10	7083479.98	640	35.0
9450	468940.53	7083492.48	640	35.0
9462.5	468940.95	7083504.99	630	32.5
9475	468941.38	7083517.49	620	30.0
9487.5	468941.81	7083529.99	680	45.0
9500	468942.24	7083542.49	680	45.0
9512.5	468942.66	7083554.99	720	55.0
9525	468943.09	7083567.50	720	55.0
9537.5	468943.52	7083580.00	700	50.0
9550	468943.95	7083592.50	700	50.0
9562.5	468944.38	7083605.00	700	50.0
9575	468944.8	7083617.504	670	42.5
9587.5	468945.23	7083630.006	680	45.0
9600	468945.66	7083642.508	680	45.0
9612.5	468946.09	7083655.01	680	45.0
9625	468946.52	7083667.512	660	40.0
9637.5	468946.94	7083680.014	700	50.0
9650	468947.37	7083692.516	700	50.0
9662.5	468947.8	7083705.018	700	50.0
9675	468948.23	7083717.52	720	55.0
9687.5	468948.66	7083730.022	700	50.0
9700	468949.08	7083742.524	640	35.0
9712.5	468949.51	7083755.026	660	40.0
9725	468949.94	7083767.528	680	45.0
9737.5	468950.37	7083780.03	680	45.0
9750	468950.8	7083792.532	680	45.0
9762.5	468951.22	7083805.034	700	50.0
9775	468951.65	7083817.536	720	55.0
9787.5	468952.08	7083830.038	740	60.0
9800	468952.51	7083842.54	720	55.0
9812.5	468952.94	7083855.042	720	55.0
9825	468953.36	7083867.544	680	45.0
9837.5	468953.79	7083880.046	690	47.5
9850	468954.22	7083892.548	700	50.0
9862.5	468954.65	7083905.05	700	50.0
9875	468955.07	7083917.552	720	55.0
9887.5	468955.5	7083930.054	720	55.0
9900	468955.93	7083942.556	700	50.0
9912.5	468956.36	7083955.058	720	55.0
9925	468956.79	7083967.56	740	60.0
9937.5	468957.21	7083980.062	740	60.0
9950	468957.64	7083992.564	740	60.0
9962.5	468958.07	7084005.066	740	60.0
9975	468958.5	7084017.568	740	60.0
9987.5	468958.93	7084030.07	740	60.0
10000	468959.35	7084042.572	740	60.0
L11600E	L11600E			
9400	469135.25	7083446.61	600	25.0
9412.5	469135.68	7083459.12	680	45.0
9425	469136.11	7083471.62	600	25.0
9437.5	469136.54	7083484.12	580	20.0
9450	469136.96	7083496.62	600	25.0
9462.5	469137.39	7083509.12	600	25.0
9475	469137.82	7083521.63	620	30.0

McQuesten Project
Fluxgate Survey Data

(reduced is (reading-500)/4)

Station	Utm E	Utm N	Reading	Reduced
9487.5	469138.25	7083534.13	580	20.0
9500	469138.67	7083546.63	640	35.0
9512.5	469139.10	7083559.13	640	35.0
9525	469139.53	7083571.63	640	35.0
9537.5	469139.96	7083584.14	640	35.0
9550	469140.39	7083596.64	640	35.0
9562.5	469140.81	7083609.14	660	40.0
9575	469141.24	7083621.64	980	120.0
9587.5	469141.67	7083634.14	740	60.0
9600	469142.10	7083646.65	600	25.0
9612.5	469142.53	7083659.15	640	35.0
9625	469142.95	7083671.65	640	35.0
9637.5	469143.38	7083684.15	600	25.0
9650	469143.81	7083696.654	520	5.0
9662.5	469144.24	7083709.156	620	30.0
9675	469144.67	7083721.658	620	30.0
9687.5	469145.09	7083734.16	680	45.0
9700	469145.52	7083746.662	640	35.0
9712.5	469145.95	7083759.164	680	45.0
9725	469146.38	7083771.666	700	50.0
9737.5	469146.81	7083784.168	720	55.0
9750	469147.23	7083796.67	780	70.0
9762.5	469147.66	7083809.172	720	55.0
9775	469148.09	7083821.674	740	60.0
9787.5	469148.52	7083834.176	760	65.0
9800	469148.95	7083846.678	720	55.0
9812.5	469149.37	7083859.18	700	50.0
9825	469149.8	7083871.682	680	45.0
9837.5	469150.23	7083884.184	740	60.0
9850	469150.66	7083896.686	800	75.0
9862.5	469151.08	7083909.188	780	70.0
9875	469151.51	7083921.69	770	67.5
9887.5	469151.94	7083934.192	740	60.0
9900	469152.37	7083946.694	740	60.0
9912.5	469152.8	7083959.196	760	65.0
9925	469153.22	7083971.698	740	60.0
9937.5	469153.65	7083984.2	780	70.0
9950	469154.08	7083996.701	800	75.0
9962.5	469154.51	7084009.203	760	65.0
9975	469154.94	7084021.705	760	65.0
9987.5	469155.36	7084034.207	780	70.0
10000	469155.79	7084046.709	780	70.0
10012.5	469156.22	7084059.211	780	70.0
10025	469156.65	7084071.713	800	75.0
10037.5	469157.08	7084084.215	780	70.0
10050	469157.5	7084096.717	800	75.0
10062.5	469157.93	7084109.219	780	70.0

APPENDIX 7

1998 Induced Polarization Summary Report

VICEROY RESOURCE CORPORATION

INDUCED POLARIZATION SURVEY, THE McQUESTEN PROPERTY, MAYO AREA, YUKON TERRITORY

Chris Gooliaff B.Sc

Location: 63° 52' N 135° 40' E
NTS: 105 M/13
Mining District: Mayo, YT
Date: October 19, 1998

SUMMARY

An induced polarization (IP) survey was conducted on the McQuesten Property for Viceroy Resource Corporation to identify sulphide rich zones associated with gold occurrences within the Keno Hills Quartzite and Hyland Group rocks. The IP survey consisted of 4.8 line-km and was conducted over 5 days in June 1998.

A promising target was located on lines 9700E and 9900E. Both lines contain a narrow, moderately chargeable and resistive anomaly near 9700N. The anomaly is estimated to be 25m wide, 25m deep, and laterally extensive, extending from (and likely further to the east of) line 9700E to line 9900E. Chargeability and resistivity values of the anomaly are in agreement with expected values for sulphide-rich silicic or calcareous auriferous host rocks. The anomaly is on strike with known showings in the area, striking approximately E-W, and occurs within the same package of rocks containing the Wayne Vein, making it a potential economic target.

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Figure 2. Property Location . . . . . Following page 1

Figure 3. IP interpretation flow-chart . . . . . Following page 5

1.0 INTRODUCTION

This report describes an induced polarization (IP) survey conducted on the McQuesten Property for Viceroy Resource Corporation in the Mayo Mining District, Yukon Territory. The survey was conducted to identify auriferous zones of sulphide mineralization.

2.0 LOCATION AND ACCESS

The location of the McQuesten property is shown in Figure 1. The property is approximately 50km northwest of Mayo and is accessible by road from the Silver Trail.

3.0 GRID

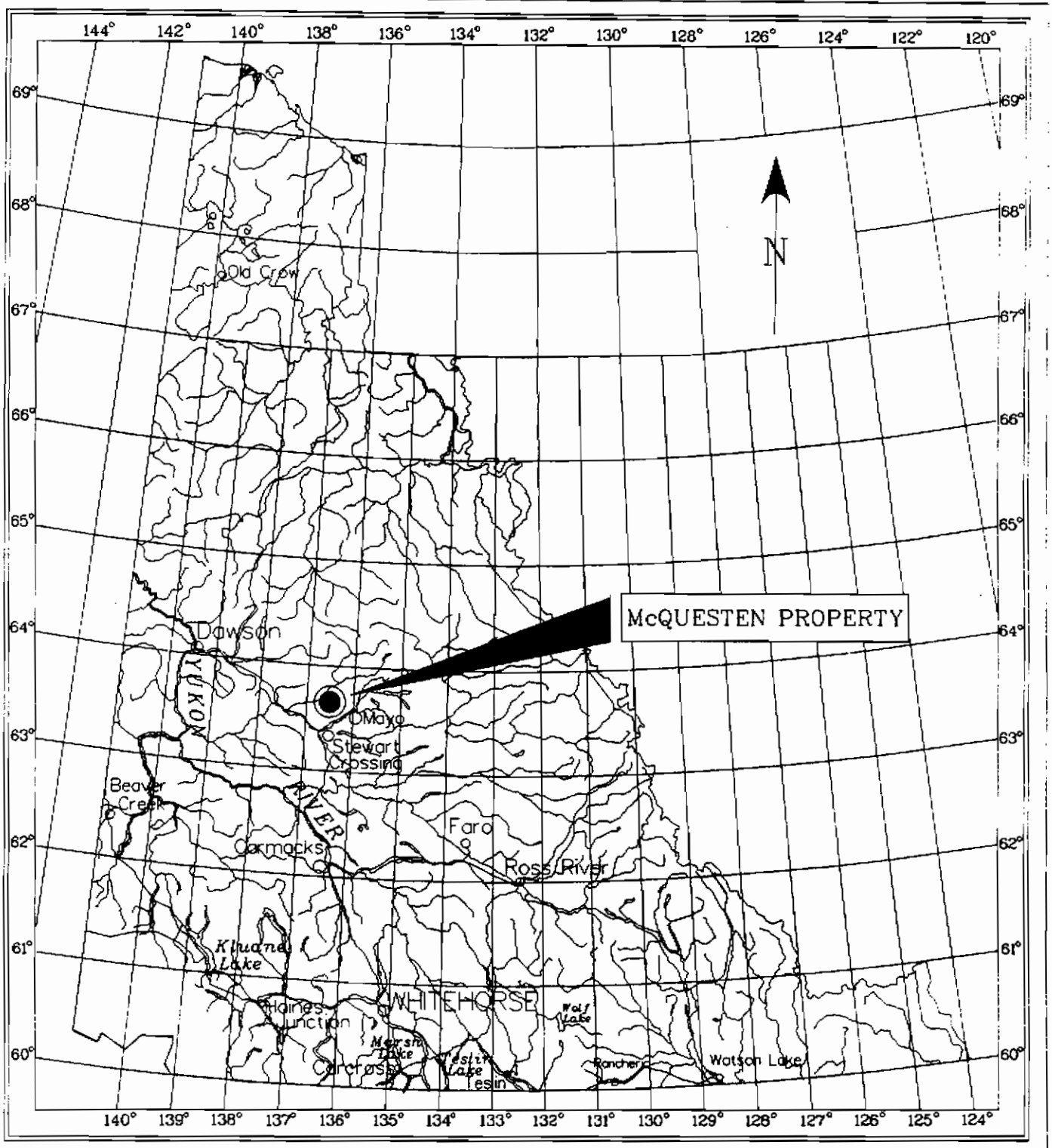
Survey lines were cut and straight-chained (not slope corrected) with stations at 50m intervals with half-length, tagged survey lathe. Intermediate stations at 25m were marked with labelled flagging. A total of 4.8 line-km were covered during the IP survey. The location of the grid is shown in Figure 2.

4.0 PROPERTY GEOLOGY

Rocks on the McQuesten property are of the Hyland Group, composed of quartzites, conglomerates and phyllites. On the property these rocks are mainly phyllitic quartz calcareous schists which are in contact with the Keno Hill Quartzites to the north. Lithologic units follow the regional strike of 90° and dip 20-35° south. The contact is the Robert Service Thrust Fault, running approximately E-W.

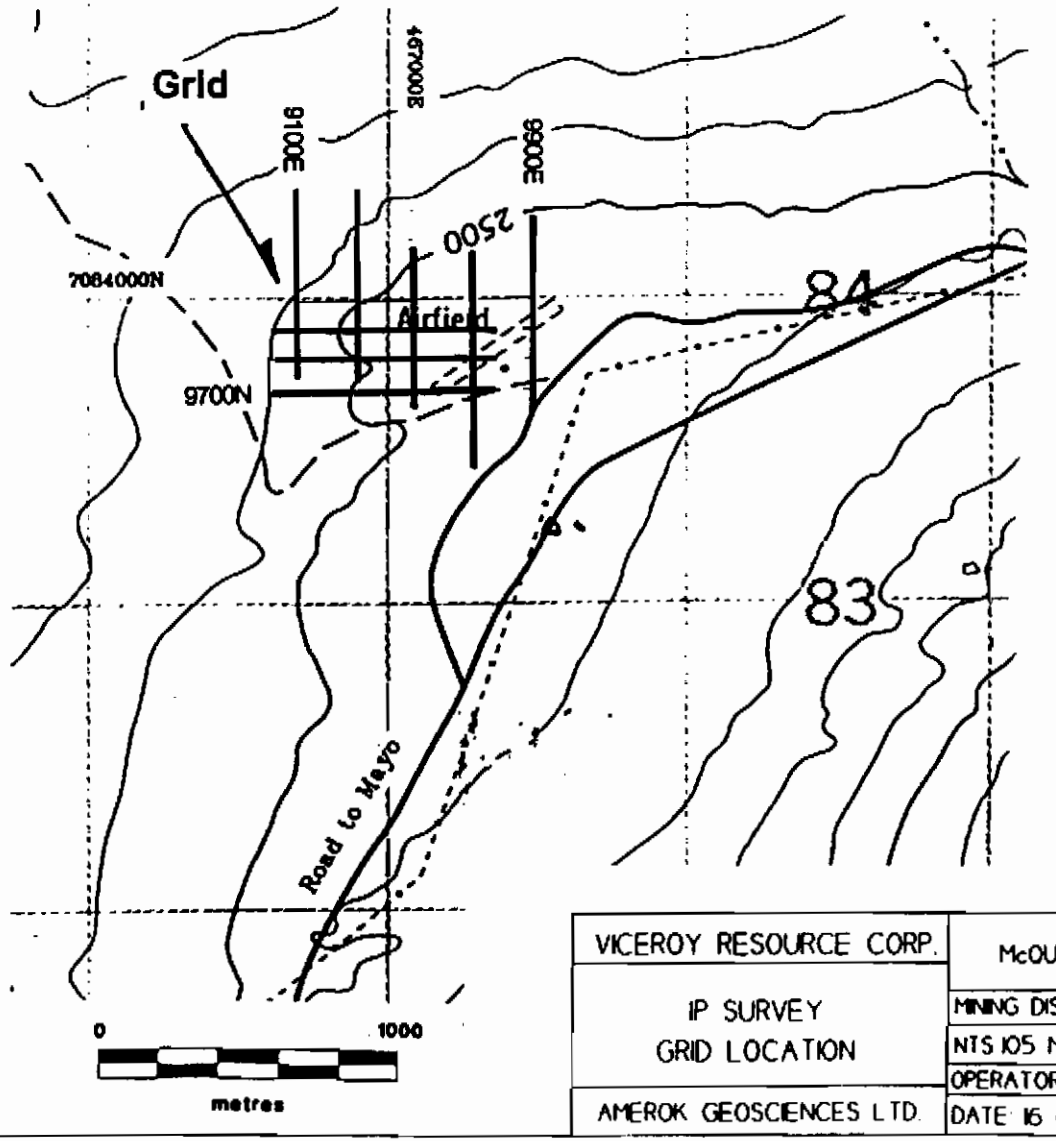
Hyland Group rocks along the fault are highly deformed sedimentary units consisting of conglomerates, psammites, and phyllitic marbles. These units contacting the Robert Service Thrust Fault have been interpreted as structurally imbricated, isoclinally folded and faulted packages.

Also found on the property are calc-silicate skarn and hornfels containing very fine grained disseminated pyrrhotite,arsenopyrite, and minor pyrite. These units are in contact with Hyland Group quartz sericite schists and phyllites. The skarns appear to



0 200
kilometres

VICEROY EXPLORATION CANADA INC	McQUESTEN PROPERTY
PROPERTY LOCATION	MINING DISTRICT: MAYO
	NTS: 115 P/9 — SCALE: 1: 6 000 000
	DRAWN BY CP
AMEROK GEOSCIENCES LTD.	DATE: 06/29/98 — FIGURE 1



VICEROY RESOURCE CORP.	McQUESTEN PROPERTY
IP SURVEY GRID LOCATION	MINING DISTRICT: MAYO
	NTS 105 M/13 SCALE: 1:25,000
	OPERATOR: C GOOLIAFF
AMEROK GEOSCIENCES LTD.	DATE 16 OCT 98 FIGURE 2

have formed from the contact metamorphism of limestone. Some are derived from calcareous schist and calcareous quartzite. Gold values are directly related to the abundance of sulphides, and the amount of sulphides is much higher in skarns than in quartz sericite schist and phyllite.

The intrusion causing the contact metamorphism has not been located in outcrop on the property. Intrusive rocks in the area are restricted to granitic and aplitic dykes and sills of the Tombstone Suite.

Economic targets are zones containing high concentrations of disseminated sulphides, such as the skarns described above. These rocks may have anomalous high chargeabilities, and are expected to be moderately resistive.

5.0 PERSONNEL AND EQUIPMENT

The surveys were conducted by the following staff from Amerok Geosciences Ltd.:

Person	Position	Address
Mike Power	Crew Chief	1 Bates Crescent Whitehorse YT Y1A 4T8
Andrew Davis	Technician	#8-201 Hanson St. Whitehorse YT Y1A 1Y3
Gary Smith	Technician	410 Strickland, Apt.209 Whitehorse YT Y1A 2K2
Tony Painter	Technician	87 Fireweed Rd. Whitehorse YT Y1A 5T8

The crew were equipped with the following instruments and equipment:

IP Transmitter:	Phoenix IPT-1 mated with 2.5 KW motor generator. Maximum output voltage: 1500 V / maximum output power approximately 2.2 KW. Spare Phoenix IPT-1 provided.
IP Receiver:	IRIS IP-10 digital 10-channel IP time domain receiver

Data processing: 486 laptop and HP-680C colour printer. Data processing with Geopak IPSECT software and proprietary data conversion software.

Other equipment: 6-conductor 50 m IP cables, stainless steel electrodes, 4 km wire, winders, VHF radios, F350 truck.

The crew spent a total of 5 days on the property.

6.0 SURVEY SPECIFICATIONS

The IP surveys were conducted according to the following specifications:

Array: Dipole-dipole

Dipole spacing: 25 m

Separations read: n=1 to 6

Signal: 0.125 Hz / 50% duty cycle / reversing polarity

Receiver synch: synchronization using n=1 dipole signal.

Signal sampling: 20 windows, Cole-Cole semi-logarithmic sampling over 2 s.

Measurements: Vp - primary voltage prior to shutoff
M_n - nth time slice chargeability (n=1 to 20)
Mt - total chargeability
Ro - apparent resistivity
Sp - self potential
Rs - electrode resistance

Noise threshold: Standard deviation in Mt kept to $\leq$ 5 ms where possible. In the event that this was not possible, readings were repeated several times to ensure repeatability.

Stacking: minimum 15 times, maximum 30 times for a single reading.

7.0 DATA

Copies of the corrected IP data in Geosoft format (.gsf) files are appended to this report on 3.5" diskettes. IP pseudosections are contained in Appendix B. Significant chargeability and resistivity anomalies are indicated by horizontal lines above the respective pseudosections, indicating the horizontal location of the tops of the source bodies. The anomalies are assigned a letter designator, from left to right across the pseudosections.

A small number of readings were deleted from the data set because they contained high apparent errors and readings were not repeatable in the field. These occurred at sites of very conductive ground, where very low primary voltages were recorded (< 1 mV). Default (no data) values were inserted for these points and the software contoured around them.

8.0 IP INTERPRETATION PROCEDURES

The IP data was interpreted using a procedure sketched schematically in Figure 3. The numbers in the flow chart refer to information sheets in the company interpretation manual. Key features of the responses mentioned in these sheets are summarized below and are drawn from summaries and investigations by Telford *et. al.* (1990), Sumner (1976), Hanneson (1990), Hohmann (1990), and Coggon (1973).

The source field for the survey was a grounded current dipole with a spacing of 25m near a reading array of 25 m dipoles. The receiving dipoles were separated from the current dipole by a variable spacing of 1 to 6 times the 25 m dipole spacing. The source field from a grounded current dipole is symmetric about the midpoint of the pair and drops off dramatically with distance. There are no effects in the pseudosections which are primarily due to the source field.

8.1 Overburden responses

Overburden responses in a dipole-dipole survey show up as flat-lying layers in the pseudosections. The depth to the boundary between layers of different resistivity or chargeability can be estimated as 1.5 to 2.0 times the separation at which the gradient between the two layers is the greatest. This inevitably leads to an overestimation if the dipole spacing is large relative to the thickness of the layer. In some cases, the overburden response is not visible as a separate resistivity anomaly but is apparent as a flat-lying layer of lower chargeability - usually only down to n=1. This is attributed to

oxidation or leaching of chargeable minerals or graphite from bedrock near the surface or to the absence of chargeable minerals in overburden. Features which appear to be limited in depth extent are referred to as depth limited in this report.

8.2 Two dimensional versus three dimensional responses

Responses are interpreted as two dimensional (i.e. extending along strike to some extent) unless otherwise stated. If a target is in fact three dimensional and is interpreted as being two dimensional, the contrast between the host and target properties will be underestimated.

8.3 Apex location and width

Targets which are less than one half a dipole spacing (i.e. 12.5 m) will produce single slash responses. The apparent dip of the single slash response *does not* indicate the dip of the feature but merely indicates which electrode was closer to the source. A thin target may also produce a symmetric two-slash response if it is centred at an electrode site. The width of the source body is considered to be definitely less than 12.5 m if a single slash anomaly is encountered and to be at least 12.5 m if a symmetric response is encountered. It is difficult to discriminate between a 12.5 and 25 m wide target response if the response is symmetric and the author has chosen to err on the wide side. If the response at the shortest separation is wider than one dipole, this is an indication that the source body is also wider than one dipole. The width of the response at the shortest separation is used to determine the width of the source body in most case; in certain circumstances, however, the response is compared with model responses to determine the source width. The solid lines in the pseudosections and on the anomaly maps show the horizontal location of the top of the source bodies and the apparent width of the target. The error in apex location is conservatively estimated $\pm$ 1 dipole (25 m).

8.4 Depth to top

The depth to the top of a source body is generally indicated by the shortest separation at which the response if visible. Thus a target at a depth of 25 m would be expected to produce some response at n=1 but a target with a top at 50 m would generally not be visible at n=1.

8.5 Dip direction

The dip direction and dip of a source body are difficult to estimate with dipole-dipole

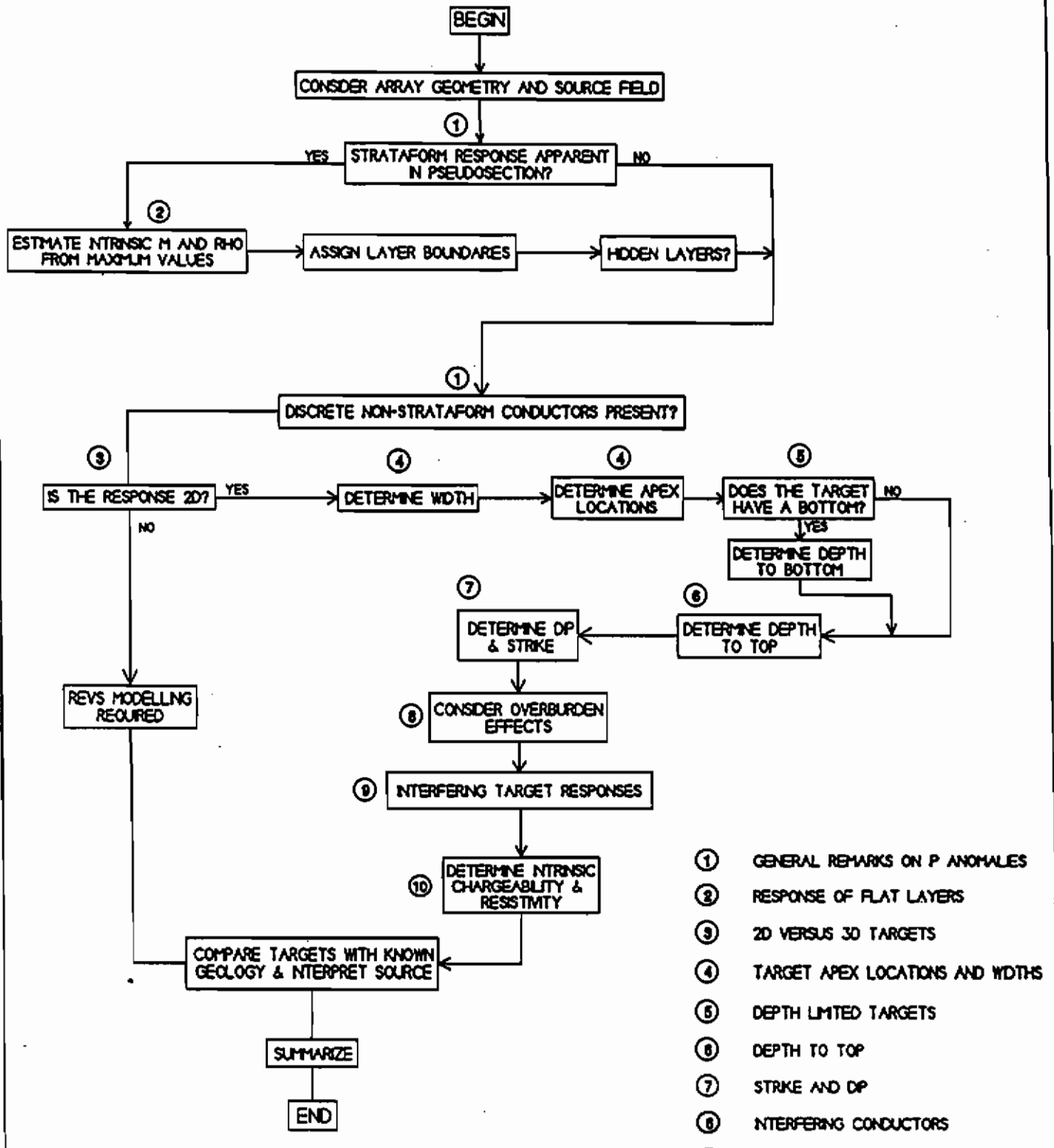


Figure 3. IP interpretation flow-chart.

data. Dip must be estimated using both the resistivity and chargeability data because the apparent dip direction will be different depending upon whether the chargeable target is more or less resistive than the host. If the target is more resistive than the host, the dip in the chargeability pseudosection will be in the same direction as the target. If the target is less resistive than the host, the apparent dip will be opposite the true dip. At a dipping contact, the steepest gradient in a resistivity section dips in the opposite direction to the true dip of the contact. Estimates of dip direction are difficult or impossible to make where targets of alternating resistivity are adjacent to each other.

8.6 Target resistivity and chargeability

Estimates of true or intrinsic target chargeability and resistivity can be made once the interpreter has some idea of the target dimensions. In general, for a given resistivity and chargeability contrast, the target response will decrease as the target dimensions decrease. In addition, the amplitude of the chargeability contrast will be affected by the resistivity contrast. Targets which are very resistive or very conductive will show much lower apparent chargeabilities relative to true chargeability.

A three dimensional target (e.g. a sphere) will produce an anomaly with a maximum apparent chargeability which is at best 30% of the true chargeability response. If the target is two dimensional, the maximum apparent chargeability is 50% of the true chargeability unless the target is thin in which case the maximum apparent chargeability will be up to 40% of the true intrinsic chargeability.

Estimates of the true chargeability and, to a lesser extent, resistivity can be used to estimate the probable source of an anomaly. Chargeabilities are largely determined by the bulk concentration of chargeable minerals such as sulphides or graphite. It is difficult to discriminate between the two. Rules of thumb cited by Sumner (1976) and Hohman (1990) relate chargeable mineral content to recorded IP parameters:

$$1\%sulphides \cong 3\%PFE \cong 20ms \cong 10mrad$$

There are wide variances between the sulphide content predicted by these relations and the actual sulphide content. These arise from the effect of electrical resistivity on measured chargeability. Rocks which are highly resistive (few current paths) or very conductive (too many current paths) will exhibit lower than predicted apparent

chargeability and estimates of chargeable mineral content will err on the low side. In addition, estimates of sulphide content based on chargeability must account for background chargeability due to clay minerals.

9.0 IP SURVEY RESULTS

Disseminated sulphide or graphite mineralization produce high chargeability responses. If the concentrations are very high, they may significantly lower rock apparent resistivity as well. Silicification or potassic alteration can raise bedrock apparent resistivity by blocking current paths, even if significant sulphide concentrations are present. In effect, chargeability is governed by the surface area of chargeable minerals present and the apparent resistivity is controlled by the extent to which conductive minerals are electrically connected. Consequently, high chargeability anomalies indicate the presence of disseminated sulphides or graphite. Low apparent resistivities may indicate the presence of clay alteration, significant sulphide concentrations or graphite which enhance the overall electrical conductivity of the bedrock. Graphite is known to occur in this environment, and many of the anomalies located are likely due to its presence. Characteristic responses of graphitic rocks are high chargeability values coupled with very low resistivity values.

Some lines show a permafrost layer in both the chargeability and resistivity pseudosections. In the chargeability section this appears as a zone of suppressed chargeability at the n=1, or first separation, layer of the section; in the resistivity pseudosection, permafrost appears as increased resistivity, again at the n=1 layer. Both features are flat-lying.

An apparent geophysical contact is present in most north-south trending lines. The contact appears between the interval of 9850N and 10000N, varying in precise location from line to line and striking approximately E-W. To the north of the contact, resistivity values are consistently below 50 ohm-m. South of the contact resistivity values range from 50 ohm-m to over 1000 ohm-m. Chargeability values have a broad range in both units and do not clearly identify the contact. The resistive unit may be the calcareous schist and the less resistive unit may be the graphitic schist.

<u>Line 9100E</u>

No apparent geophysical contact is present in this line.

Chargeability anomaly A is a weak high with subtle expression in the resistivity

pseudosection. The single slash anomaly occurs between 9800N and 9813N and shows chargeabilities of up to 41.5 ms. Depth to top is estimated to be 25 m, with no apparent bottom (slash goes off the pseudosection). Dip is impossible to estimate. There appears to be no continuation of this anomaly to the east, suggesting an isolated source. Moderate chargeabilities may indicate the presence of sulphide mineralization at shallow depths.

Chargeability anomaly B and resistivity anomaly A occur as a single slash anomaly between 9863N and 9875N. The anomaly shows moderate chargeabilities of 45 ms and high resistivity values. Depth to top is estimated to be 25 m with no apparent bottom. Dip is impossible to estimate. The characteristics of this anomaly are very similar to anomaly A of line 9300E, and this may be the on-strike extension of a single E-W striking source. Moderate chargeabilities may represent the presence of sulphide mineralization at shallow depths.

Chargeability anomaly C occurs from 9950N to 9975N. Moderate chargeabilities of 34 ms are shown with the target appearing to be more resistive than background. Depth to top is estimated at less than 25 m. The target appears to be dipping to the south. Moderate chargeabilities may represent the presence of sulphide mineralization at shallow depths.

Chargeability anomaly D is a single slash anomaly centered at 10031N. High chargeabilities of 83 ms correspond with very low resistivity values. Depth to top is estimated to be less than 25 m. Dip is impossible to estimate. This anomaly is similar in character to anomaly B of line 9300E, and this may be the on-strike extension of a single E-W striking source. High chargeabilities and low resistivites may indicate graphite.

Chargeability anomaly E occurs in the interval 10200N to 10213N. Moderate to high chargeabilities of 50 ms correspond to low resistivities. Depth to top is estimated to be at least 100 m. Dip is impossible to estimate. This anomaly does not appear to continue to line 9300E and could therefore represent a small, isolated source. The high chargeabilities coupled with low resistivities may indicate graphite.

Line 9300E

The apparent geophysical contact between the two distinct units is located at approximately 9990N. There are three discrete anomalies within the chargeability pseudosection, two with corresponding anomalies in the resistivity section. Permafrost patches are apparent at depths to 25 m all along the line.

Chargeability anomaly A and resistivity anomaly A occur beneath the interval 9888N to 9913N, and are centred at 9900N and 9894N respectively. Both occur as single slash anomalies. Chargeabilities of 51 ms correspond to moderate resistivities. Depth to top is estimated to be 25 m to 50 m. This a thin target, less than 12 m wide. Dip is impossible to estimate. The characteristics of this anomaly are similar to anomaly B of line 9100E and may be the on-strike extension of a single E-W striking source. High chargeabilities and low resistivities may represent the presence of disseminated sulphide mineralization at depth.

Chargeability anomaly B occurs between 10025N and 10050N, centered at 10037N. High chargeabilities of 103 ms are coupled with low resistivities. Depth to top is estimated to be less than 25 m and the depth is limited to 50 m. This anomaly shares similar characteristics to anomaly D of line 9100E and anomaly C of line 9500E and may be the on-strike extension of a single E-W striking source. The high chargeabilities and moderate resistivities may indicate graphite.

Chargeability anomaly C and resistivity anomaly B are located between 10250N and 10275N. Chargeabilities of 63 ms and low resistivities are shown in the same interval. Depth to top is estimated to be 25 m with no apparent bottom. Dip is difficult to estimate. This anomaly does not appear to continue to adjacent lines and may represent a small, isolated source. High chargeabilities and low resistivities may indicate graphite.

Line 9500E

An apparent geophysical contact between two distinct units is at approximately 9975N. There are three anomalies located on this line, two of which have corresponding resistivity lows and one with a slight increase in resistivity.

Chargeability anomaly A and resistivity anomaly A occur between 9775N and 9800N. They are single slash anomalies, which indicate a thin, conductive and chargeable source estimated to be less than 13 m in width. Maximum chargeabilities of 79 ms and low resistivities are recorded. Dip is impossible to estimate. Depth to top is estimated to be less than 25 m. This anomaly does not appear to occur on adjacent lines and may be a single, isolated source. High chargeabilities and low resistivities may indicate graphite.

Chargeability anomaly B and resistivity anomaly B occur between 9925N and 9950N, centered at 9937N and 9931N respectively. They both occur as single slash anomalies, indicating a thin, conductive and chargeable source estimated to be less

than 25 m wide. Chargeabilities of 57 ms and low resistivities were measured. The target is shallow, with depth estimated to be less than 25 m. Dip is difficult to estimate. This anomaly does not appear to extend to adjacent lines and may be a small, isolated source. Moderate chargeabilities and low resistivities may represent the presence of sulphide mineralization at shallow depths.

Chargeability anomaly C occurs from 9975N to the end of the line. This target is limited to a depth of 25 m, thickening slightly to the north. High chargeabilities of up to 116 ms and moderate resistivities occur over this interval. The thinning at 10025N may be topography-induced. The target is flat-lying. This anomaly appears to be similar to anomaly B of line 9300E and may be the eastward extension of the same source. The high chargeability and moderate resistivity may indicate graphite.

Line 9700E

The apparent geophysical contact between the two distinct units is located at approximately 9900N. Five anomalies are located on this line with one having a corresponding resistivity anomaly. Permafrost patches, at depths to 25 m, are interpreted to occur along this line.

Chargeability anomaly A is located with an apex at 9713N. Moderate chargeabilities and resistivities are shown. It is a shallow target with a depth to top less than 25 m. The chargeability anomaly is not depth limited while the depth of the resistivity source is limited to approximately 100 m. Dip is difficult to determine. This anomaly has similar characteristics to anomaly A of line 9900E and may represent the eastward extension of the same source. The moderate chargeabilities and resistivities may indicate sulphide mineralization at shallow depths.

Chargeability anomaly B occurs at 9825N to 9838N. Moderate chargeabilities and resistivities are shown over the apex. There is an intereference effect between anomalies A and B, shown on the pseudosection, centered at 9775N and at n=3 to 4 depth. This is not to be mistaken for a separate anomaly. Depth to top of target is estimated to be 25 m and width is less than 25 m. The target is near-vertical in orientation. The high chargeabilities and low resistivities may indicate graphite.

Chargeability anomaly C occurs beneath 9888N to 9900N, centered at 9894N. It is another shallow, thin target (10 to 15 m wide) that exhibits an interference effect on the pseudosection with a neighboring anomaly. High chargeabilities of up to 100 ms with low resistivities occur. Depth to top is estimated to be less than 25 m. Dip is impossible to estimate. This anomaly has some similar characteristics to anomaly C

of line 9900E and may be an on-strike extension of a single E-W striking source. The high chargeabilities and low resistivities may indicate graphite.

Chargeability anomaly D occurs between 9925N and 9988N. It is coincident with a small increase in resistivity. The target is very chargeable with values up to 111 ms. Depth to top is less than 25 m and the target does not extend past depths of 50 m. It is a flat-lying, thin, possibly westward extension to anomaly C from line 9900E. The high chargeabilities coupled with low resistivities may indicate graphite.

Chargeability anomaly E occurs between 10025N and 10125N. It is coincident with a small rise in resistivity. This target is also a shallow, flat-lying body with a depth limit of 50 m. The anomaly may thin to the north. Chargeabilities of up to 130 ms are shown. This anomaly shares characteristics with anomaly D from line 9900E and may be an on-strike extension of a single E-W striking source. The high chargeabilities and low to moderate resistivities suggest graphite.

Line 9900E

The apparent geophysical contact is at approximately 9825N. Four chargeability anomalies with subtle resistivity responses occur on this line.

Chargeability anomaly A is located between 9700N and 9725N. Moderate chargeability values occur in this region with no significant resistivity response. Depth to top is estimated at 25 m and width is approximately 25 m. The target is dipping to the south. This anomaly is similar to anomaly A of line 9700E and may represent the eastward extension of the same source. The moderate chargeabilities and resistivities may represent sulphide mineralization at shallow depths.

Chargeability anomaly B occurs between 9850N and 9863N. It is a single slash anomaly produced by a thin, conductive, highly chargeable body with a thickness of less than 15 m. The depth to top is less than 25 m. Dip is impossible to estimate. This anomaly has some similar characteristics to anomaly C of line 9700E and may be the westward extension of the same source. The high chargeabilities and low resistivities may indicate graphite.

Chargeability anomalies C and D are located between 9875N to 10025N and 10038N to 10088N respectively. The sources appear to be flat-lying layers up to 25 m thick (thinning to the north) associated with low to moderate resistivities. These two anomalies have similar characteristics to anomalies D and E of line 9700E. The high chargeabilities and low resistivities suggest graphite.

Line 9700N

No discernible geophysical contact between geologic units is noted on this line. Three chargeability anomalies occur on this line.

Chargeability anomaly A lies between 9037E and 9050E and exhibits moderate to high chargeabilities. This end of line anomaly has an estimated depth to top at 25 m. This anomaly has a small, isolated source as it does not appear to coincide with anomalies noted on adjacent lines. The moderate to high chargeabilities with low resistivities may indicate graphite.

Chargeability anomaly B lies between 9463E and 9475E. This asymmetric anomaly exhibits moderately high chargeabilities. The anomaly is 12.5 to 25 m wide with a depth to top of at least 75 m. The target may dip to the west. It is probably a small, isolated source as no anomalies with similar characteristics occur on adjacent lines. The moderate chargeabilities and resistivities may indicate sulphide mineralization at depth.

Chargeability anomaly C lies between 9600E and 9613E. It is a single slash anomaly with a width of 10 to 15 m, a maximum depth to top of 25 m. Dip is impossible to estimate. This is an isolated anomaly with no N-S extensions. The moderate chargeabilities and resistivities may indicate graphite.

Line 9800N

A possible fault contact is located at approximately 9375E. To the east of the contact it appears as though 50 m of a more resistive unit overlies a less resistive unit whereas rocks west of the contact have uniform moderate resistivities. There appear to be four anomalies and an overburden effect (depth to n=1) on this line.

Chargeability anomaly A lies between 9063E and 9143E. It indicates a flat-lying body with a depth to top of between 25 and 50 m and is depth limited to maximum 125 m. Moderate chargeabilities and resistivities are shown, possibly indicating disseminated sulphide mineralization in the calcareous schist. This is probably an isolated source as no continuations appear on adjacent lines.

Chargeability anomaly B is a weak high between 9213E and 9225E. It is a single slash anomaly of a thin (10 to 15 m wide) target with an estimated depth to top of 50 to 100 m. Dip is impossible to estimate. There is no line to line correlation of this anomaly so it may be caused by an isolated source. The low to moderate

chargeabilities and moderate resistivities may represent sulphide mineralization at depth.

Chargeability anomaly C is located between 9356E and 9368E. The source is a 10 to 15 m wide target with a depth to top estimated at 25 to 50 m. Dip is impossible to estimate. This anomaly lies near the contact between the two schists. It is an isolated source. The low to moderate chargeabilities and moderate resistivities may represent sulphide mineralization at depth.

Chargeability anomaly D occurs between 9444E and 9581E. Moderate to high chargeabilities were measured with moderate resistivities. The source is a flat-lying body with a thickness of 75 m. The depth to the top is approximately 25 m . It does not appear to continue to other lines and therefore is an isolated source. The moderate to high chargeabilities and low apparent resistivities may indicate graphite.

Line 9900N

A possible fault contact at 9275E separates moderately resistive rocks to the west from low resistive rocks to the east. Two chargeability anomalies with related resistivity changes are located along the line.

Chargeability anomaly A is located between 9238E and 9263E, centered at 9250E. It is approximately 25 m wide and depth to top is less than 25 m. Chargeabilities are moderate and coincide with a broad resistivity low. Dip is impossible to estimate. The anomaly does not appear to coincide with anomalies from adjacent lines and may therefore be due to a small, isolated source. The moderate chargeabilities and low resistivities may represent sulphide mineralization at depth.

Chargeability anomaly B is located between 9537E and 9550E. High chargeabilities of up to 80 mV/V and an associated resistivity low are shown. The depth to top is estimated to be 25 m and width estimated at 10 to 15 m. Dip is impossible to estimate. The anomaly does not appear to continue to adjacent lines and therefore may be a small, isolated source. The high chargeabilities and very low resistivities may indicate graphite.

10.0 DISCUSSION

Gold values on the McQuesten property are directly related to the abundance of sulphides. The amount of sulphides is much higher in skarns than in quartz sericite

schist and phyllite. Silicic and calcareous source rocks containing high concentrations of sulphide mineralization would be expected to present excellent IP targets, exhibiting both high chargeabilities and moderate to high resistivity values.

Stratigraphically, known showings of the region occur within silicic-calcareous schists of the Hyland Group and Keno Hill Quartzites, in close proximity to the Robert Service Thrust Fault. Regional strike is approximately E-W and dip is to the south.

A promising target is seen on pseudosections of lines 9700E and 9900E. Anomalies A in both lines show a narrow, moderately chargeable and somewhat resistive anomaly centered near 9700N. Chargeabilities in excess of 45mV/V were recorded. Strike of this feature is approximately E-W, in agreement with regional trends and known showings in the area. The target appears to be dipping to the south. The anomaly extends more than 200m from 9700E across 9900E, but thins to less than 25m at 9700E. Width is estimated to be 15m to 25m. Depth to top is estimated to be 25m. The anomaly may extend to include anomaly C of line 9700N, giving it a strike-length of over 300m.

A possible fault contact may be present on lines 9800N and 9900N, located at 9375E and 9275E respectively. To the west of this contact, rocks are moderately resistive while lower resistivity rocks beneath a thin (<100 m) layer of moderately resistive rocks occurs east of the contact. This contact may be a subsidiary strike slip fault displacing graphitic schists in the Keno Hill Quartzite to the south on the eastern side of the fault. The western side contains known showings of auriferous beds that trend E-W. The previously mentioned target may be the SE extension of the showings.

This moderately to highly chargeable horizon is considered a viable economic target due to its intrinsic chargeability and resistivity values, its apparent location within the Hyland Group rocks, stratigraphically above the graphitic schist of the Keno Hill Quartzite, its width, and lateral dimensions. The signature of this anomaly fits that of a sulphide rich, moderately resistive, conformable source.

A contact between highly conductive rocks in the north of the grid and more resistive rocks to the south has been identified on lines running north to south. The contact strikes approximately E-W and is located between 9850N and 10000N on most lines. Results of the survey show that high chargeability anomalies north of the contact are most likely from graphitic sources within the conductive unit, while those anomalies south of the contact are less likely from graphite sources but instead from sulphide mineralization. This interpretation is based upon study of local geology and comparison of chargeability and resistivity pseudosections.

11.0 CONCLUSIONS

The results of the induced polarization survey conducted on the McQuesten Property Grid suggest the following conclusions:

a. An E-W striking contact at approximately 9925N separates graphitic rocks to the north from less graphitic/more calcareous rocks to the south.

b. Rocks south of the contact at 9925N show promise as auriferous host rocks, exhibiting high background chargeabilities and high resistivities. The most promising zone is a narrow, chargeable horizon at 9700N which may extend from 9600E to 9900E.

c. A potential fault running NW-SE may intersect and offset the calc-silicate schist unit. The potential continuation of the Wayne Vein may be the above-mentioned horizon.

12.0 RECOMMENDATIONS

The following recommendations are made based on the conclusions of this work:

a. Geochemical surveying and prospecting should be conducted on the anomaly at 9700N of lines 9600E, 9700E, and 9900E.

b. Detailed mapping of the potential offsetting fault from the last known showing to the promising target should be conducted.

Respectfully submitted,
AMEROK GEOSCIENCES LTD.

Chris Gooliaff
Geologist

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APPENDIX A. CERTIFICATE

I, Christopher Graeme Gooliaff, with residence address in Whitehorse, Yukon Territory do hereby certify that:

1. I hold a B.Sc in Honours Geology from the University of Calgary granted in 1997.

2. I have been actively involved in mineral exploration since June 1995.

3. I interpreted the results with the assistance of Mike Power, P. Geoph.

4. I have no interest, direct or indirect, nor do I hope to receive any interest, direct or indirect, in Viceroy Resource Corporation or any of its properties.

Dated this 19th day of October, 1998 in Whitehorse, Yukon.

Respectfully Submitted,

Christopher Gooliaff

APPENDIX B. IP SURVEY LOG

SURVEY LOG
VICEROY RESOURCE CORPORATION
IP SURVEY - JOB 98-13
JUNE 22 - 27, 1998

Personnel: Mike Power - crew chief and geophysicist
Gary Smith - technichian
Andrew Davis - technician
Tony Painter - field assistant

Mon 22 JUN 98 Demobe from Scheelite Dome to Halfway Lakes Lodge; arrive mid afternoon.

Tue 23 JUN 98 IP survey on L9300E / 9100E. Wx: rain turning to showers later in the day; very muggy.

Production: L9300E 9700N-10400N
L9100E 9700N-9850N
Total: 0.85line-km

Wed 24 JUN 98 IP survey on L9100E / 9700E. Wx: fair with a few PM showers.

Production: L9100E 9850N-10400N
L9700E 9400N-10250N
Total: 1.4 line-km

Thu 25 JUN 98 IP survey on L9800N / L9500E. Wx: fair.

Production: L9800N 9000E-9700E

L9500E 9600N-10400N
Total: 1.5 line-km

Fri 26 JUN 98 IP survey on L9700N and 9900N. Wx: fair with a couple of showers.

Production: L9900N 9000E-9600E
L9700N 9000E-9600E
Total: 1.5 line-km

Sat 27 JUN 98 IP survey on L9900E and demobe late afternoon. Wx: fair.

Production: L9900E 9600N-10300N
Total: 0.7 line-km

	Survey days	Production (line-km)
IP survey	5.0	6.3

APPENDIX C. PSEUDOSECTIONS

APPENDIX 8

Summary Logs, 1998 Trenching

ID	Level	Survey from (m)	Survey to (m)	Lithology	Modifier(s)	Colour	Geology Memo	From Easting	From Northing	From Elevation	To Easting	To Northing	To Elevation
TR9801	0	44.00	55.00	GRNT			a pale (very pale bluish) white sugary qtz, plagioclase rhyolitic dyke, no mafic minerals noted, no distinct phenocrysts noted, surface weathering or hydrothermal along fractures after emplacement causes haloes around fractures	466603.49	7083897.80	728.83	466606.86	7083909.25	727.40
TR9801	2	55.00	76.00	QTZT	C		very slightly calcareous/minor calcareous bands generally <0.1m/skarn mineralization and sulphides	466606.82	7083908.24	727.52	466610.68	7083928.88	726.29
TR9801	0	55.00	94.00	QTZT	Ph		variably weathered and altered phyllitic quartzite	466606.82	7083908.24	727.52	466614.06	7083946.52	723.59
TR9801	2	76.00	84.00	QTZT	G,Ph		graphitic phyllitic quartzite	466610.68	7083928.88	726.29	466612.30	7083936.70	725.34
TR9801	2	84.00	94.00	QTZT	Ph		phyllityic quartzite	466612.30	7083936.70	725.34	466614.06	7083946.52	723.59
TR9801	0	94.00	128.00	QTZT	G,Ph		graphitic phyllitic quartzite rubble	466614.06	7083946.52	723.59	466618.19	7083979.23	718.17
TR9802	0	0.00	1.90	QTZT	Ph		exposed at base of trench, overlain by till. Strongly brecciated(broken) and limonitic	466673.73	7083801.74	735.90	466673.69	7083803.68	735.87
TR9802	0	1.90	9.00	OVB			layers of dark brown sand and layers of dark brown to black organic material(sub-peat). 10-20% unsorted, rounded to angular pebbles, cobbles and boulders	466673.69	7083803.58	735.87	466671.73	7083811.35	736.12
TR9802	0	9.00	9.70	QTZT	Ph		exposed at base. Strongly foliated	466671.97	7083810.39	736.10	466671.73	7083811.35	736.12
TR9802	0	9.70	10.00	OVB			drak brown. Dominantly silt sand and organics	466671.80	7083811.06	736.11	466671.73	7083811.35	736.12
TR9802	0	10.00	34.00	QTZT	Ph		typically moderately to strongly foliated (could also be called silicified phyllite). Minor finely interbedded phyllite. Very broken.	466671.73	7083811.35	736.12	466662.01	7083833.10	737.18
TR9802	2	18.00	21.00	QTZT	Qs		rusty 1-2m wide, discontinuos qtz vns, parallel and sub parallel to foliation	466668.83	7083818.75	736.24	466667.19	7083822.37	736.55
TR9802	0	34.00	36.40	GRNT			southern contact 020/73^NW. lens of qtz at 36.4-37.4m within 3/4 of wall	466662.01	7083833.10	737.18	466660.83	7083838.89	737.14
TR9802	0	36.40	37.40	QTZT	Ph		lens that pinches out ~1/2m before base of trench	466661.30	7083835.37	737.18	466660.83	7083836.89	737.14
TR9802	0	37.40	42.60	GRNT			continuation of QM dike north of QTZ lens. QM varies in colour from white with rusty speckles to pale green depending on alteration style present. Variable 1-5% subrounded to rounded clear qtz phenocrysts roughly 2mm-4mm in diameter. Mafic minerals diffic	466661.00	7083836.32	737.16	466660.49	7083842.73	737.08
TR9802	0	42.60	49.00	QTZT			Ranges from off white and yellowish white to pale grey to medium grey in colour. Is typically well foliated with mm's wide layers and lesser blocky sections. Graphitic and chloritic alterastion zones are not uncommon	466660.47	7083841.39	737.06	466660.56	7083848.48	737.19
TR9802	0	49.00	50.00	GRNT			Southern contact ~295/27^ SSW. Northern contact ~295/35^ SSW	466660.55	7083847.52	737.18	466660.56	7083848.48	737.19
TR9802	0	50.00	60.00	QTZT				466660.56	7083848.48	737.19	466662.00	7083858.04	736.82
TR9802	0	60.00	69.00	QTZT	Ph		A rusty weathering blue grey pyllitic quartzite	466662.00	7083858.04	736.82	466662.87	7083867.93	735.94
TR9802	0	69.00	72.00	OVB			Sorted gravel in sand matrix overtain by sand "bar" and then organics	466662.82	7083866.93	736.02	466662.97	7083869.93	735.78
TR9802	0	72.00	78.00	QTZT	M, C		Aslightly weathering "blocky" variably calcareous quartzite in part grades to a sandy limestone	466662.97	7083869.93	735.78	466662.12	7083875.94	735.96
TR9802	0	78.00	80.00	QTZT			A rusty weathering very well sheared (in part gouge) phyllitic quartzite	466662.12	7083875.94	735.96	466661.69	7083877.95	736.14
TR9802	0	80.00	95.00	GRNT			A massive blocky rhyolite (Quartz, plagioclase +/- carbonate) totally weathered (surface) to granular nixture in clays in part almost totally clay	466661.69	7083877.95	736.14	466658.62	7083893.78	736.78
TR9802	0	95.00	107.50	QTZT	Ph, C		a blue grey phyllitic to blocky variably calcareous quartzite	466658.80	7083892.80	736.65	466657.29	7083905.60	735.94
TR9802	2	100.00	104.20	QTZT	M		"Blocky" calcareous quartzite (sandy limestone in places) minor skarn mineralization	466658.18	7083897.72	736.50	466657.51	7083903.63	736.08
TR9802	0	107.50	109.00	LMST			Marblelized blue white patchy subcrystaline limestone/minor skarn minerals on contacts and along fractures	466657.34	7083905.11	735.98	466657.21	7083907.57	735.75
TR9802	0	109.00	115.00	QTZT	Ph, G		blue grey variably graphitic quartzite	466657.25	7083906.59	735.85	466657.64	7083913.69	735.23
TR9802	0	115.00	116.00	LMST			see 107.5-109	466657.56	7083912.67	735.31	466657.64	7083913.69	735.23
TR9802	0	116.00	117.80	QTZT	Ph, G, C		as per 109-115 except calcareous and grading to blocky calcareous quartzite to limestone	466657.64	7083913.69	735.23	466657.78	7083915.72	735.05
TR9802	0	117.80	122.40	LMST,SKARN	Ph		see 107.5-109 includes discrete bands of phyllitic quartzite (inferred from rubble) and discrete bands of skarn mineralization mainly foliation contolled	466657.76	7083915.52	735.07	466659.02	7083921.65	734.06

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TR9802	0	122.40	128.00	QTZT	Ph, G		Phyllitic quartzite/discrete bands of more graphitic zones-graphite generally increasing to North	466658.58	7083920.09	734.32	466660.19	7083925.48	733.23
TR9802	0	128.00	142.00	OVB	G		Graphite rich mud and organics inferred to be a burried recessive graphitic phyllitic quartzite	466660.19	7083925.48	733.23	466663.06	7083939.07	733.98
TR9802	0	142.00	149.00	QTZT	G,Ph, Qs		a blue black graphitic phyllite/some quartz sweats the # of blocky quartzite bands increase to the North as the section grades into a quartzite	466663.06	7083939.07	733.98	466664.25	7083946.92	733.61
TR9802	0	149.00	153.00	QTZT	M,Qs,Hf		Blocky quartzite/qtz sweats and minor phyllite bands and several hornfels zones	466664.22	7083945.92	733.76	466664.35	7083950.92	733.14
TR9802	0	153.00	160.00	QTZT	G,Ph,M		Interbedded graphitic phyllite and phyllitic to blocky quartzite/a moderate # of quartz sweats	466664.33	7083949.92	733.26	466664.50	7083956.94	732.43
TR9802	2	157.00	159.60	QTZT	G,Ph,M		Blocky quartzite/interbeds of graphitic phyllite	466664.43	7083953.93	732.79	466664.50	7083956.94	732.43
TR9802	0	160.00	162.00	QTZT	Sr,Ph		Sericitic phyllitic quartzite	466664.50	7083956.94	732.43	466664.55	7083958.94	732.20
TR9802	0	162.00	169.60	QTZT	Ph,C		rusty weathering well broken phyllitic quartzite/mod but variable carbonate contact-Indication of extensive shearing and possible gouge (loc, ext etc.) mod # of broken quartz sweats indications of sulphides	466664.55	7083958.94	732.20	466664.75	7083966.96	731.25
TR9802	0	169.60	180.00	QTZT	G,Ph,M		Interbedded mod to ext. graphite-graphitic phyllite interbedded with phyllitic to blocky quartzite (fine grained sections appear hornfelsed) non calcareous no sulphides noted minor quartz sweats	466664.74	7083966.55	731.30	466664.52	7083976.96	729.96
TR9802	0	180.00	190.00	QTZT	M,H		Blocky blue grey fine grained "hornfelsed" quartzite phyllitic partings variable quartz sweats non calc.	466664.52	7083976.96	729.96	466663.39	7083986.93	728.23
TR9802	0	190.00	196.00	OVB			overburden and rubble	466663.39	7083986.93	728.23	466662.72	7083992.91	727.19
TR9803	0	0.00	8.50	QTZT	Ph		Quartzites with thin beds of biotite horfelses (roughly 80-90% of quartzites and 10-20% of hornfelses), stongly foliated and brecciated, sometimes with chloritic alteration atond foliation planes and minor amphybolic alteration (?) Fine grained, very thin	466768.86	7083891.16	752.23	466770.76	7083900.95	751.71
TR9803	0	8.50	12.00	QTZT			Dike of plutonic rocks (probably, quartz diorites) First ~1.5m -very fine grained, without phenocrysts, follwing ~1.5m -coarser grained, with numerous quartz and plagioclase (?lesser amount) phenocrysts (up to 4mm across), fluidal (gneiss like) stucture o	466770.48	7083899.48	751.79	466771.08	7083902.92	751.31
TR9803	0	12.00	26.40	QTZT	Ph		Quartzite, stongly foliated and chloritized. Less chloritized beds are characterized by propilitic alteration (dark green, probably amphybolic) along thinest "strips" and contain fine-disseminated pyrrhotite. The rocks are moderately carbonatized. Thin (u	466771.08	7083902.92	751.31	466773.37	7083918.71	748.14
TR9803	0	26.40	29.50	LMST			Marbles, thin to coarse bedded, massive (almost un-foliated), white to grey (dark grey) in colour (probably due to a presence of graphite)	466773.18	7083917.13	748.45	466773.62	7083920.69	747.76
TR9803	0	29.50	30.30	QTZT	Ph		Quartzites, chloritized, strongly foliated and brecciated	466773.56	7083920.20	747.85	466773.49	7083922.62	747.51
TR9803	0	30.30	33.00	OVB			Overburden	466773.60	7083920.98	747.72	466773.51	7083924.57	747.25
TR9803	0	33.00	34.50	LMST			Marbles, the same to int. 26.4-29.5	466773.50	7083923.60	747.38	466773.52	7083926.52	747.00
TR9803	0	34.50	43.00	QTZT	Ph		Quartzites, strongly foliated, with numerous but thin (up to 10-15cm) marble interbeds (un-foliated, massive) Quartzites are altered to thin (fine) -striped pyrrhotite -and pyrite-bearing rocks contained also amphybole(?) and weakly to strongly chloritize	466773.51	7083925.06	747.19	466771.38	7083934.23	746.42
TR9803	0	43.00	45.00	OVB			OVERBURDEN	466771.67	7083933.26	746.50	466770.80	7083936.16	746.24
TR9803	0	45.00	65.00	QTZT			The same unit of quartzites, probably with lesser amount of marble interbeds, but larger amount of quartz veins	466771.09	7083935.19	746.33	466763.97	7083954.81	744.71
TR9803	0	65.00	70.00	QTZT	Hf		The same unit of quartzites but with larger amount of Bt hornfelses interbeds. The latter are distributed in-regularly: in some short/~2-3m intervals they compose about ~20-40% of the unit volume, in other short intervals they are almost absent	466764.23	7083953.86	744.75	466762.91	7083958.62	744.59
TR9803	0	70.00	74.70	QTZT	Ph		Pale to medium grey weathering rusty. Strongly foliated. Typically mm to cm wide layers. Minor limonitic and fractured Qtz lenses and veinlets.	466762.91	7083958.62	744.59	466761.43	7083964.36	744.23

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TR9803	2	73.70	74.70	QTZT	Hf		Dark grey to black massive hornfels weathering rusty. Layers/beds up to 10cm wide. Overlain and underlain by quartzites. Hornfels unit ~50cm wide	466761.93	7083962.15	744.40	466761.43	7083964.36	744.23
TR9803	0	74.70	79.70	QTZT	Ph		Pale to medium grey with limonitic weathering. Generally strongly foliated. Minor sections less fissile. Qtz veining largely confined to proximityof fault zone at base of unit	466761.71	7083963.11	744.33	466760.54	7083968.30	744.16
TR9803	0	79.70	88.00	LMST			Meta-limestone -medium to locally dark grey weathering same and limonitic. Predominantly massive or cut by fine calcite stringers/veinlets. Banded intervals consist of conformable white bands generally mm's thick but up to cm's wide alternating with grey	466760.63	7083968.00	744.16	466758.19	7083976.17	743.87
TR9803	0	88.00	94.00	OVB			Black soil. Couldn't get through permafrost.	466758.19	7083976.17	743.87	466756.48	7083981.92	743.66
TR9803	0	94.00	108.00	QTZT	Ph		Pale to medium grey weathering same and tan (locally weathered medium green) Locally limonitic on partings. Generally fine-to medium-grained. Overall well foliated with lesser more massive sections	466756.48	7083981.92	743.66	466755.67	7083995.89	743.35
TR9804	0	0.00	22.00	QTZT	F		Bluish grey variably foliated quartzite (originally a greywacke ?) qtz frags rounded 1mm to very fine in a micaceous matrix,variable qtz sweats mainly in thickest banded sections. Bands/beds start @ cm and <cm thickness and increase in width to decimeter	466798.87	7083765.12	754.06	466793.09	7083785.95	758.54
TR9804	2	8.00	22.00	QTZT	F		Gradational change at 8m from thinly foliated material to coarser foliated in part sub massive quartzite	466796.79	7083772.70	756.14	466793.09	7083785.95	758.54
TR9804	0	22.00	29.00	LMST	M,F		Whitish blue grey marblized limestone grading from sub massive to sub foliated. Almost totally recrystallized crystals mm scale	466793.09	7083785.95	758.54	466790.18	7083793.40	758.38
TR9804	0	29.00	36.00	QTZT	F		Mod. Well foliated bluish grey quartzite (fol.cm scale/some more massive sections)	466790.54	7083792.46	758.44	466787.40	7083798.76	757.98
TR9804	0	36.00	38.10	LMST	M,F		Whitish blue grey marblized limestone sub foliated <mm scale crystals	466787.40	7083798.76	757.98	466785.75	7083802.41	757.56
TR9804	0	38.10	78.20	QTZT	F		Bluish grey variably foliated quartzite (fol thick cm scale)	466786.44	7083800.64	757.76	466777.53	7083840.60	753.02
TR9804	2	45.90	46.00	SKARN			A skarnified section of submassive quartzite (origionally calcareous?)	466783.58	7083807.89	756.89	466783.54	7083807.98	756.88
TR9804	0	78.20	86.00	OVB			Fine greyish green sand and rounded boulders old stream bed ?	466777.61	7083838.83	753.48	466777.35	7083844.53	751.99
TR9805	0	0.00	8.50	QTZT	Ph		Pale to med grey weathering same, light brown and weakly limonitic. Well foliated mm to cm wide layers.	466848.03	7083904.00	763.20	466847.94	7083913.92	762.20
TR9805	2	3.00	4.00	QTZT,LMST	Sk		Pale to med green weathering dark rusty brown. Chlorite and calcite alteration 2-3% diss bleb and vnlt po in central part of skarn interval is med grey massive limestone with 2% diss and bleb po limestone is subordinate to skarn. Interbedded phyllitic qua	466848.00	7083906.98	762.90	466847.99	7083907.97	762.80
TR9805	0	8.50	23.50	QTZT	Ph,G		Strongly phyllitic, graphitic quartzite. Highly fractured and broken. Typically dark grey to black. Locally narrow intervals med grey with weak to moderate limonite staining. Fractured, limonitic rarely vuggy qtz vns that pinch and swell	466847.96	7083912.43	762.35	466846.50	7083927.65	759.19
TR9805	2	13.00	14.00	QTZT	Hf		~10cm wide massive dark competent hornfelsed interval in hanging wall of fault zone	466847.56	7083916.84	761.45	466847.43	7083917.81	761.20
TR9805	0	23.50	30.00	OVB			Brown and black mud	466846.54	7083927.15	759.21	466846.00	7083933.67	758.99
TR9805	0	30.00	44.00	QTZT	Ph,G		Strongly foliated, graphitic quartzite. Dark grey to black weathering same.	466846.00	7083933.67	758.99	466844.98	7083947.72	758.16
TR9805	2	36.00	41.00	QTZT	Qs		~20% qtz sweats as highly fracturad, trace vuggy white qtz; with limonitic staining	466845.50	7083939.69	758.79	466845.07	7083945.71	758.34
TR9805	2	36.00	44.00	QTZT	Hf,Qv		Med grey, massive hornfels or massive qtz beds interbedded with phyllitic quartzite	466845.50	7083939.69	758.79	466844.98	7083947.72	758.16
TR9805	0	44.00	56.00	QTZT	Ph,Hf,Qs		Med grey weathering same, brown and limonitic (light and dark orange). Intervals of strongly phyllitic qtz are regularly interbedded with massive intervals up to 0.5-1.0m thick. The massive sections are med grey and competent-either hornfels or a darker g	466844.98	7083947.72	758.16	466843.97	7083959.65	756.76

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TR9805	0	56.00	57.60	OVB			Intensely limonitic (ligh tand dark orange) soil and fragments. @ east side of trench layer of pale greyand buff fragments	466843.97	7083959.65	756.78	466843.73	7083961.61	756.28
TR9805	0	57.60	58.70	LMST			Poorly exposed dark grey meta-limestone. Sparse discontinuouse white bands limonitic partings	466843.77	7083961.22	756.38	466843.49	7083963.58	755.78
TR9805	0	58.70	61.00	QTZT	Ph		West wall slumped in. mapped east and transposedto west. Pale to med grey. Well foliated. Limonitic	466843.64	7083962.30	756.10	466843.33	7083965.55	755.16
TR9805	0	61.00	61.20	GRNT			Exposed at west base of trench. In place? Sampled? Weathering limonitic	466843.41	7083964.56	755.47	466843.33	7083965.55	755.16
TR9805	0	61.20	75.00	QTZT	Ph		Pale to med grey occasionally buff or dark grey. Weathering grey and limonitic. Locally rusty speckled appearance on foliation planes due to oxidation of sulphides. Alternatuing sequence of well foliated and more massive quartzites. Sparse graphitic seams	466843.39	7083964.76	755.41	466843.37	7083979.52	755.14
TR9805	0	75.00	79.60	GRNT			Cream coloured weathering same, rusty brown and occasionally orange. Phenocrysts of clear qtz (~5%) 1-3mm diameter and muscovite (~10%) books 3-5mm diameter set in a fine to med grained mosaic feldspar and qtz. Very sparse mafics. Dike is morre acidic tha	466843.48	7083978.51	755.36	466843.41	7083983.60	754.97
TR9805	2	79.60	86.00	QTZT	Hf,Ph		Hornfelsed adjacent to dike. Layers are more massive and med to dark grey. Minor interbeds of well foliated quartzite.	466843.38	7083983.20	754.91	466844.14	7083989.67	754.91
TR9805	0	79.60	112.00	QTZT	Ph		Pale to med grey, occasionally off-white. Weathers grey, orange and rusty brown. Locally patchy manganese coating foliation planes. Largely well foliated with lesser more massive sections	466843.38	7083983.20	754.91	466841.29	7084015.55	751.61
TR9805	2	87.00	90.00	QTZT	G,Ph		Moderately graphitic interval. Very well foliated. Very fissle. A graphitic phyllite unit or due to alteration? Round white spots within layers-porphroblasts? Soft and non reactive.	466843.89	7083990.66	754.82	466843.44	7083993.64	754.47
TR9805	2	96.00	112.00	QTZT	G,Ph		Regularly interbedded graphitic phyllite and phyllitic qtz.	466842.86	7083999.62	753.69	466841.29	7084015.55	751.61
TR9806	0	0.00	1.00	OVB			Med brown-grey clay	466934.04	7083864.42	770.08	466933.96	7083866.37	770.06
TR9806	0	1.00	2.00	QTZT	Ph		White to cream coloured weakly to moderately folliated phyllitic quartzite. Weathers same and limonitic on foliation planes. Fairly competent. Layers 1-10cm wide	466934.00	7083865.40	770.07	466933.96	7083866.37	770.06
TR9806	0	2.00	23.00	QTZT,SKARN,LMST	Ph		Interbedded phyllitic quartzite (~60%), skarn (~25%) and limestone/limey quartzite (~15%). Quartzite is white to med grey, typically well foliated and weathers creamy to grey and limonitic. Skarn intervals occur intermittantly throughout and are seen as d	466933.96	7083866.37	770.06	466934.87	7083887.74	769.90
TR9806	0	23.00	29.70	QTZT,SKARN	Ph,G,H		Skarn and limestone interbeds gradually decrease to the north; from approx 23m to quartz monzonite dike contact. Minor hornfelsed rocks are seen in this area. Graphic zones are approx 10-50cm wide and occur within the phyllitic	466934.70	7083886.77	769.91	466934.52	7083893.61	769.80
TR9806	0	29.70	37.00	GRNT	M,C		Whitish calcareous quartz plagioclase dike, massive blocky joints intruding phyllitic quartzite/diss bleby sulphides (pyrite/pyrrhotite) and also as fracture coating. No real argillic alteration just surface weathering	466934.57	7083893.32	769.80	466933.26	7083901.57	769.29
TR9806	0	37.00	40.50	QTZT	Ph,C		Bluish grey phyllitic quartzite/ minor 0.1m bands of calcareous qtze/lmst and assoc. skarn mineralization	466933.51	7083900.56	769.35	466933.07	7083905.56	769.21
TR9806	0	40.50	43.00	GRNT	M,C		see 29-37	466932.84	7083904.08	769.27	466932.78	7083907.59	769.25
TR9806	0	43.00	54.00	QTZT	Ph		Phyllitic quartzite similar to 37-40.5 except only minor Lmst/calcareous bands	466932.92	7083908.57	769.23	466930.54	7083917.59	769.35
TR9806	0	54.00	57.50	QTZT	Ph,Qs,G		Dark blue grey very graphitic phyllite quartzite with extensive qtz sweats (<1cm*10cm in phyllites to 0.1*0.3m in the more massive sections	466930.54	7083917.59	769.35	466930.17	7083921.67	769 23
TR9806	0	57.50	59.00	QTZT	Ph		See 43-54 section	466930.22	7083921.16	769.25	466929.99	7083923.70	769 17
TR9806	0	59.00	63.00	GRNT	M		See section 29-37: very similar except the joint spacing is only cm apart and an incipient foliation can be seen	466930.08	7083922.68	769.20	466929.68	7083927.74	768 93

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TR9806	0	63.00	75.00	QTZT	Ph,Hf		Pale to med grey phyllitic quartzite weathers same with weak limonitic staining on foliation planes. Genarally well foliated -layers mm to several mm's thick. Pods and narrow intervals of dark grey to black, massive hornfels; largely within 3-5m of dike c	466929.74	7083926.74	769.02	466928.90	7083939.76	767.78
TR9806	0	75.00	81.00	QTZT	G,Qs,Ph		Dark grey to black graphitic quartzites/phyllites. Interval characterized by high graphite content and limonitic and fractured qtz sweats up to 40cm wide. Qtz sweats have a brecciated appearance -cut and seamed by graphitic material. Start of graphitic in	466928.96	7083938.76	767.91	466928.55	7083945.73	767.12
TR9806	0	81.00	89.00	OVB			Couldn't trench through permafrost	466928.60	7083944.75	767.19	466928.21	7083953.59	766.56
TR9806	0	89.00	95.00	QTZT	G,Ph,Qs		Same as 75-81m Less qtz sweats	466928.25	7083952.61	766.63	466927.95	7083959.49	766.87
TR9806	0	95.00	97.30	QTZT	Ph		Pale grey quartzites weathering same and limonitic. Well foliated. Slightly limey	466928.00	7083958.51	766.82	466927.87	7083961.46	766.97
TR9806	0	97.30	102.00	LMST,SKARN			Dark grey with meta-limestone, massive and with white mm - cm wide bends. Interbedded skarn zones from 97.3-100m. Minor interbedded phyllitic quartzite.	466927.90	7083960.77	766.93	466927.69	7083965.39	766.41
TR9806	0	102.00	107.70	LMST,QTZT,SKARN	Ph		Interbeded limestone and quartzite and quartzite. Limestone decreases and quartzite increases heading north. Skarn at 106-107.7m with interbedded quartzites.	466927.69	7083965.39	766.41	466927.43	7083971.28	765.62
TR9806	0	107.70	126.00	QTZT	Ph		Pale to med grey weathering same and weakly limonitic. Typically well foliated	466927.43	7083970.98	765.66	466926.65	7083988.92	763.13
TR9806	2	122.00	122.00	Qs	Qs		Qtz vn appears as ridge on floor. ~1m wide on east wall and 0.3-0.5m on west wall. Striking 044^ and dipping steeply SE on north face and moderately SE on south face.	466926.82	7083985.00	763.76	466926.82	7083985.00	763.76
TR9807	0	0.00	6.00	QTZT	Ph,G		Interbedded phyllitic quartzite and graphitic phyllite/minor qtz sweats and rusty bands. Non calc No sulphides	467015.98	7083860.96	775.54	467015.68	7083866.52	775.24
TR9807	0	6.00	7.80	OVB			Overburden graded sand and gravel	467015.68	7083866.52	775.24	467015.57	7083868.37	775.14
TR9807	0	7.80	12.00	QTZT	Ph,G		See 0-6m	467015.58	7083868.19	775.15	467015.37	7083872.08	774.94
TR9807	0	12.00	16.60	QTZT	C,Ph		Interbedded calc quartzite (60%) and phyllitic qtz (30%)/lmst bands (10%) rusty weathering sections (weathering mod overall)	467015.37	7083872.08	774.94	467015.07	7083877.64	774.64
TR9807	2	12.70	13.00	LMST			Limestone band	467015.34	7083872.73	774.90	467015.27	7083873.93	774.84
TR9807	0	16.60	24.40	OVB				467015.14	7083876.34	774.71	467014.32	7083885.02	774.22
TR9807	0	24.40	25.80	OVB			Frozen ground. Graded sand and gravel	467014.67	7083883.57	774.22	467014.32	7083885.02	774.22
TR9807	0	25.80	29.70	QTZT	C,Ph		See 12-16.6m Increased phyllitic quartzite by 10% minor hornfelsing in first 2m	467014.36	7083884.84	774.22	467013.42	7083888.67	774.22
TR9807	0	29.70	35.00	QTZT	Ph		Phyllitic quartzite weak-mod weathering. Tr graphite at start for 1m.	467013.49	7083888.40	774.22	467012.80	7083894.68	774.20
TR9807	0	35.00	43.50	QTZT	Ph,C,M		Phyllitic quartzite/ weak to mod calc sections 40% of section calc, 60% phyllitic	467012.90	7083893.68	774.20	467012.14	7083902.71	773.93
TR9807	0	43.50	48.50	QTZT	Ph,Sr		Phyllitic quartzite/ 2 sections of m to s sericite. Mod weathering only trace/ a few bands of calc phyllite	467012.15	7083902.20	773.96	467011.36	7083908.65	773.49
TR9807	0	48.50	50.90	GSCT,QTZT			Graphitic phyllite/20% blocky quartzite non calc	467011.55	7083907.17	773.60	467011.09	7083910.63	773.34
TR9807	0	50.90	59.80	GRNT	C		"Quartz monzonite" dike calc strong surface weathering diss po	467011.24	7083909.54	773.42	467010.05	7083918.55	772.81
TR9807	2	59.80	62.00	QTZT			Crushed partly gouged phyllitic quartzite	467010.07	7083918.35	772.82	467009.89	7083920.54	772.73
TR9807	0	59.80	71.10	QTZT	Ph		Interbedded phyllitic quartzite (70%)/variable sericite and graphitic phyllite, tr carbonate in places	467010.07	7083918.35	772.82	467009.14	7083930.46	772.25
TR9807	0	71.10	77.40	GSCT	Qs		Graphitic phyllite increasing up section mod number of qtz sweats numerous zones of movement	467009.19	7083929.57	772.31	467008.89	7083936.41	771.85
TR9807	0	77.40	84.80	QTZT	Ph,Sr		Phyllitic quartzite mod-strong sercite with graphitic no calc with weathering	467008.92	7083935.82	771.89	467008.56	7083944.35	771.32
TR9807	0	84.80	87.60	LMST			Limestone grades to phyllitic qtz then to a black silty/sandy lmst no skarn	467008.61	7083943.16	771.40	467008.47	7083946.33	771.19
TR9807	0	87.60	91.60	QTZT	Ph,Sr,C		Phyllitic quartzite/ mod sericite rusty brown 1st m sheared below lmst/ 30% calc interbands/skarn	467008.49	7083945.93	771.21	467008.31	7083950.29	770.92
TR9807	0	91.60	96.70	QTZT,GSCT	Ph,Sr		Interbedded phyllitic quartzite (70%) mod sericite weak to mod weathering and graphitic phyllite (30%) mod graphite non calc	467008.32	7083949.90	770.95	467008.04	7083956.27	770.48

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TR9807	0	96.70	100.00	GSCT			Well sheared graphitic phyllite (strong graphite) variable 0.1m bands rusty minor qtz sweats	467008.08	7083954.97	770.59	467008.12	7083958.26	770.32
TR9807	0	100.00	108.10	OVB			Frozen ground.	467008.12	7083958.26	770.32	467008.50	7083968.22	769.86
TR9807	0	108.10	113.80	GSCT,QTZT			Mod graphitic phyllite 75% interbedded quartzite and hornfels quartzite 20% and qtz sweats with fe in quartzite (0.02-0.08m width) non calc	467008.46	7083966.33	769.84	467008.51	7083972.17	769.78
TR9807	0	113.80	122.00	QTZT,GSCT	M		Blocky blue grey sugary quartzite 70% of 0.1 to 1m "beds" interbedded/ graphitic phyllite (0.01-0.5m "beds") non calc	467008.51	7083971.97	769.79	467007.70	7083979.97	768.18
TR9807	0	122.00	124.90	GSCT,QTZT	Ph		Graphitic phyllite 65% interbedded/quartzite 30% 0.1-0.4m beds 5% qtz sweats	467007.70	7083979.97	768.18	467007.26	7083983.87	767.18
TR9807	0	124.90	128.00	OVB			Bedded sand and gravel	467007.38	7083982.80	767.45	467007.04	7083985.83	767.94
TR9807	0	128.00	132.50	QTZT,GSCT	M		Blocky to foliated blue grey sugary qtzt "hornfelsed" 70% interbedded/mod graphitic phyllite 30% and minor qtz sweats	467007.04	7083985.83	767.94	467006.38	7083991.72	767.47
TR9807	0	132.50	136.00	GSCT,QTZT	M		Graphitic phyllite 70% Quartzite 30%	467006.55	7083990.24	767.66	467006.16	7083993.69	767.21
TR9807	0	136.00	146.00	QTZT,GSCT	H,Ph		Interbedded blocky to foliated sugary hornfelsed quartzite 50%/ mod - strong graphitic phyllite 50% all bands 0.1-2m	467006.16	7083993.69	767.21	467005.62	7084003.52	767.94
TR9808	0	0.00	6.60	QTZT	Ph		Phyllitic quartzite shows crushing in places	467109.62	7083857.82	781.72	467108.85	7083865.81	780.74
TR9808	0	6.60	10.40	OVB			Sorted sand and gravel	467108.98	7083864.41	780.91	467108.47	7083869.81	780.25
TR9808	2	10.40	11.40	QTZT	Ph,C		40% 0.01m calc quartzite "beds"/skarn	467108.62	7083868.21	780.45	467108.47	7083869.81	780.25
TR9808	0	10.40	28.00	QTZT	Ph		Phyllitic quartzite with sub sections being calc and increaseing sericite and graphite content toward end of section	467108.62	7083868.21	780.45	467106.87	7083885.80	778.49
TR9808	2	14.00	14.20	QTZT	C		rusty red weathering calc band	467108.27	7083871.81	780.01	467108.08	7083873.80	779.76
TR9808	1	18.00	22.00	QTZT,SKARN	Ph,C		interbedded phyllitic quartzite (80%)/descrete 0.01-0.03m "beds" of calc quartzite/skarn	467107.89	7083875.80	779.52	467107.51	7083879.80	779.03
TR9808	2	25.90	26.00	SSCT			Sericite phyllite	467107.11	7083883.70	778.64	467107.09	7083883.80	778.64
TR9808	0	28.00	31.60	LMST			Limastone grading from interbedded calc phyllite quartzite to foliation/sub massive limestone/skarn	467106.87	7083885.80	778.49	467106.99	7083889.81	778.40
TR9808	0	31.60	53.00	QTZT	Ph		A med/variably light rusty weathering phyllite quartzite/mod sericite and minor graphitic zones variably minor qtz sweats	467106.99	7083889.41	778.41	467106.93	7083911.86	777.21
TR9808	2	48.60	49.50	QTZT	M		Massive blue grey sugary quartzite	467106.93	7083906.46	777.64	467106.93	7083907.86	777.53
TR9808	0	53.00	64.10	GRNT	C		Dike calc last 4m has phyllite being "thrust" from south over dike	467106.93	7083910.86	777.29	467106.80	7083923.86	776.34
TR9808	0	64.10	67.80	OVB			Graded sand and gravel	467106.83	7083921.96	776.47	467106.77	7083925.86	776.20
TR9808	0	67.80	68.60	GSCT	Qs		Graphitic phyllite/20% qtz sweats	467106.77	7083925.66	776.21	467106.73	7083927.86	776.06
TR9808	0	68.60	77.20	QTZT	Sr,G,Qs		Interbedded sericitic phyllitic quartzite 65%/mod graphitic schist 30-35% and up to 5% Qs	467106.76	7083926.46	776.16	467106.53	7083935.85	775.67
TR9808	0	77.20	83.00	GSCT			Graphitic phyllite no qtz sweats	467106.56	7083935.05	775.69	467106.32	7083941.83	775.50
TR9808	0	83.00	86.00	QTZT	Ph		Phyllitic quartzite/ mod weathering/mod sericite and qtz sweats	467106.36	7083940.84	775.53	467106.26	7083943.83	775.45
TR9808	0	86.00	90.20	GSCT			Graphitic phyllite, sheared minor qtz sweats	467106.26	7083943.83	775.45	467106.05	7083949.82	775.19
TR9808	0	90.20	102.00	QTZT	Ph,Sr,M		Interbedded phyllitic quartzite 60%/variably sercite and blocky massive quartzite (up to 0.5m) 30%/ minor graphitic phyllite sections and variable qtz sweats 5%	467106.11	7083948.02	775.32	467105.36	7083959.79	774.41
TR9808	0	102.00	113.90	OVB			frozen ground	467105.36	7083959.79	774.41	467104.96	7083971.76	774.45
TR9808	0	113.90	117.60	GSCT			Graphitic phyllite	467104.97	7083971.66	774.45	467104.86	7083975.76	774.47
TR9808	0	117.60	141.00	QTZT	M		Blocky to sub fol quartzite blue grey sugary/minor phyllitic zones (<0.5m) minor qtz sweats	467104.87	7083975.36	774.47	467104.83	7083999.63	773.48
TR9808	0	141.00	146.00	GSCT			Graphitic phyllite/minor qtz sweats	467104.88	7083998.64	773.54	467104.59	7084003.60	773.24
TR9809	0	0.00	3.00	OVB			Rounded pebbles and cobbles with dark grey mud and silt paleochannel	467210.26	7083852.21	783.72	467209.38	7083856.14	783.40
TR9809	0	3.00	8.00	QTZT,GSCT	Ph		Alternating layers of dark grey graphitic phyllite and med grey phyllitic qtz weathers rusty brown	467209.60	7083855.15	783.48	467208.50	7083860.06	783.08
TR9809	0	8.00	15.00	QTZT,SKARN	Ph,C		Pale to med green grey calc-silicate alter4ed lst weathers rusty brown. Interbedded well foliated rusty phyllitic qtz.Phl qtz comprises ~60-70% of interval. Skarn beds vary in thickness from cm's to 30cm \	467208.50	7083860.06	783.08	467207.09	7083867.95	782.76
TR9809	1	8.50	8.80	LMST	Bn		Dark grey Lst with white bands	467208.40	7083860.55	783.06	467208.10	7083862.03	783.00
TR9809	0	15.00	41.00	QTZT	Ph		Med grey phyllitic qtz (~70%) and interbedded dark grey graphitic phyllite (~30%). Graphitic beds are typically <5cm wide. Well foliated. Strong rusty weathering	467207.19	7083868.96	782.80	467204.20	7083894.02	781.53

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TR9809	1	28.00	30.50	QTZT,LMST,SKARN	Ph		Interbedded phy qtz, skarn and minor limestone	467205.80	7083879.84	782.00	467205.40	7083883.85	782.08
TR9809	1	35.50	36.00	QTZT,LMST,SKARN	Ph		Interbedded phy qtz, skarn and minor limestone. Very weakly mineralized; <0.5% Po. Weak calc-silicate alteration	467204.96	7083867.41	782.22	467204.90	7083887.92	782.20
TR9809	1	37.50	39.00	QTZT,LMST,SKARN	Ph		Interbedded phy qtz, skarn and limestone. Phy qtz dominant lithology. Folded, rotated. Mod CHL and CAL in skarn. Sparse fine diss Po	467204.69	7083869.45	782.15	467204.41	7083891.99	781.83
TR9809	0	41.00	48.00	QTZT,SKARN	Ph		Within thrust block. Interbedded skarn and phyllitic quartzite. Weathering rusty brown to brown and yellow-orange. Minor graphitic layers	467204.30	7083893.01	781.68	467203.98	7083900.01	780.65
TR9809	0	48.00	70.00	QTZT	Ph		Med to dark grey weathering pale to med rusty grey. Beds vary in thickness from <1.0cm to roughly 5cm	467203.98	7083900.01	780.65	467203.66	7083921.96	779.08
TR9809	2	66.00	70.00	QTZT	H,Ph		Beds up to 10 cm wide of dark grey massive hornfels interbedded with phyllitic qtz.	467203.73	7083917.97	779.29	467203.66	7083921.96	779.08
TR9809	0	70.00	72.50	QTZT	G,Ph		Graphitic phyllite	467203.66	7083921.96	779.08	467203.72	7083925.94	778.93
TR9809	0	72.50	83.00	GRNT			Cream coloured with rusty spots weathering rusty. 5-10% qtz phenos set in a F.G to M.G qtz feldspar groundmass. Structurally deformed. Bright yellow/orange, rusty and graphitic gouge seams. Highly fractured	467203.69	7083924.45	778.99	467203.53	7083935.92	778.69
TR9809	0	83.00	101.00	GSCT	Qs,Ph		Black graphitic phyllite with conformable orange qtz vnls/vns (sweats). Minor interbedded phy qtz.	467203.60	7083934.92	778.71	467202.87	7083953.92	777.49
TR9809	0	101.00	115.00	LMST,QTZT,SKARN	Ph		Med grey to black limestone overlain by phyllitic qtz. Minor sporadic poorly developed calc-silicate alteration. Generally poor exposure	467202.89	7083952.92	777.59	467202.91	7083967.91	777.21
TR9809	0	115.00	135.00	QTZT,GSCT	Ph		Interbedded dark grey black graphitic phyllite and med grey phyllitic qtz. Graphitic phyllites dominant. Limonitic qtz sweats	467202.89	7083966.91	777.21	467202.88	7083987.95	777.04
TR9809	0	135.00	148.50	QTZT	Ph		Med grey weathering same and rusty. Typically well foliated. Few massive section strongly jointed	467202.93	7083986.95	777.07	467200.99	7084001.85	776.51
TR9809	0	148.50	150.00	QTZT	Qs		Dark grey black resistant ridge. Non-calc extremely F.G looks like limestone but non reactive. Silicified. White qtz stockwork. Very fine diss sulphides (probably Py) along selvages of qtz stringers and along fractures. Brecciated appearance	467201.31	7084000.35	776.81	467200.99	7084001.85	776.51
TR9809	0	150.00	180.00	QTZT,GSCT	Ph,G		Well foliated graphitic phyllite and interbedded med grey phyllitic qtz. Graphitic phyllite decreases to north	467200.99	7084001.85	776.51	467200.46	7084031.81	772.72
TR9810	1	0.00	3.60	QTZT,SKARN	M,C		A blocky quartzite (may have been a qtz rich lst to start), banded, skarn developing in select bands minor calcite remnant, phyllitic partings	467302.99	7083867.44	785.16	467303.29	7083871.39	785.15
TR9810	0	0.00	26.00	QTZT	Ph,M,C		Phyllitic quartzite variably sericitic interbedded with blocky quartzite all zone are variably calc with varying skarn mineralization, overall a dull rusty orange colour weathering	467302.99	7083867.44	785.16	467304.96	7083893.16	785.06
TR9810	1	3.60	5.00	QTZT	Ph,C		80% phyllitic quartzite/banded calcareous qtzt interbeds (which are up to 50% skarn)	467303.26	7083871.00	785.15	467303.44	7083873.37	785.14
TR9810	1	5.00	6.80	QTZT,SKARN	M,C		See 0-3.6	467303.37	7083872.38	785.14	467303.59	7083875.35	785.13
TR9810	1	6.80	9.00	QTZT	Ph,C		See 3.6-5	467303.50	7083874.16	785.14	467303.74	7083877.33	785.12
TR9810	1	9.00	11.60	QTZT,LMST,SKARN	M,C		Qzt (qz rich lmst) with 30% skarn in bands mainly chloritic, except for increased calcite similar to 0-3.6	467303.67	7083876.34	785.13	467303.90	7083879.31	785.11
TR9810	1	11.60	26.00	QTZT	Ph		Phyllitic quartzite/variably sericite; dull orange rust weathering/variable calc sections/ all qtzt "beds" 2cm show variable skarn mineraliztion	467303.87	7083878.91	785.12	467304.96	7083893.16	785.06
TR9810	2	14.50	18.00	QTZT	M		Rusty red weathering/numerous gouge seams in slightly more massive qtzt	467304.09	7083881.78	785.10	467304.35	7083885.24	785.09
TR9810	0	26.00	26.60	OVB			Sliver of overburden below a thrust block.	467304.96	7083893.16	785.06	467305.11	7083895.14	785.05
TR9810	0	26.60	36.00	GSCT			Graphitic phyllite	467305.00	7083893.75	785.05	467306.02	7083903.06	784.87
TR9810	0	36.00	42.60	QTZT	Ph		see 11.6-26	467306.02	7083903.06	784.87	467307.21	7083910.97	784.63
TR9810	0	42.60	46.20	GSCT			Graphitic phyllite	467307.00	7083909.58	784.68	467307.53	7083914.95	784.48
TR9810	0	46.20	53.40	QTZT	Ph		see 11.6-26 minor calc section	467307.39	7083913.16	784.55	467307.95	7083920.92	784.27
TR9810	0	53.40	57.50	GSCT	Qs		Graphitic phyllite/qtz sweats	467307.92	7083920.33	784.29	467308.14	7083924.89	784.16
TR9810	0	57.50	72.40	GSCT			Graphitic phyllite no qtz sweats	467308.12	7083924.39	784.18	467307.94	7083940.81	783.08
TR9810	0	72.40	74.00	LMST	Fb		Bedded 0..5-1.0m lmst/rusty weathering and mod skarns along fol planes	467307.98	7083939.21	783.19	467307.94	7083940.81	783.08

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TR9810	0	74.00	78.00	LMST	Tb		Sub massive 0.1+m bands lmst/wk rusty weathering on fracture planes	467307.94	7083940.81	783.08	467307.86	7083944.79	782.81
TR9810	0	78.00	87.40	GRNT			A beige/blocky frac qtz plag int (bluish white fresh) mod calc/ 5-10% blebby diss po and py calcite on fractures (This calcite coating is also seen on rounded till boulders)	467307.86	7083944.79	782.81	467307.66	7083954.78	781.90
TR9810	0	87.40	91.80	QTZT	Ph,C		Phyllitic quartzite/calc bands weathers orange to rusty red numerous 0.05-0.1m gouge zones sub parallel to fol/ fol follows shears in places/ some quartzites being decalcified no sulphides left.	467307.67	7083954.18	781.95	467307.59	7083958.77	781.51
TR9810	0	91.80	95.00	GRNT			see 78-87.4	467307.59	7083958.57	781.53	467307.51	7083962.77	781.18
TR9810	0	95.00	96.00	LMST,SKARN			Skarned lmst grading to sub massive lmst within 2m up fol	467307.53	7083961.77	781.24	467307.51	7083962.77	781.18
TR9810	0	96.00	138.00	QTZT	Ph		Phyllitic quartzite	467307.51	7083962.77	781.18	467308.26	7084004.78	777.34
TR9810	1	106.00	108.00	QTZT	G		Thinly bedded phyllitic quartzite/ variable graphite well	467307.49	7083972.77	780.50	467307.49	7083974.77	780.37
TR9811	0	0.00	6.00	QTZT,SKARN	Ph		Pale to med grey weathering same and rusty. Typically well foliated. Very minor interbedded calc-silicates. Skarn beds generally dominant. Interbedded trace limey phyllitic qtz skarns are more competent andweathers a dark rusty brown. Fresh surfaces are p	466695.29	7083900.74	741.77	466701.34	7083900.95	786.41
TR9811	0	6.00	38.00	LMST,QTZT,SKARN	Ph		Med grey to black and greenish grey meta-limestone. Weak metasomatic alteration. Mineralized. Interbedded phyllitic qtz and skarn. Can't locate contact. Gradational or intercalated? Phyllitic qtz variably limey. Limestone beds range in thickness from cm's	466701.34	7083900.95	766.41	466733.46	7083901.33	742.20
TR9811	0	38.00	42.50	QTZT	Ph,G		Typically dark grey weathering same and very rusty. Moderately to well foliated. Variably graphitic	466733.46	7083901.33	742.20	466739.45	7083901.34	744.06
TR9811	1	42.00	42.50	QTZT	Fg		Intersection of 3 stuctures; ~020^, 060^, 090^. Angular clasts of limonitic qtz and intense manganese altered sediments in a partially open (vuggy) orange and rusty matrix.	466737.45	7083901.08	743.69	466739.45	7083901.34	744.06
TR9811	0	42.50	43.50	QTZT	Ph		Top of resistant ridge. Medium grey weathering rusty. Extremely fine grained. Characterized by subangular to rounded grey to blue grey qtz crystals that range in diameter from 0.25mm up to 2-3mm. They are roughly aligned along the fabric. They comprise <5	466737.95	7083901.14	743.78	466739.45	7083901.34	744.06
TR9811	0	43.50	60.00	OVB			Largely float of phyllitic qtz with qtz crystals	466738.95	7083901.28	743.97	466755.49	7083901.82	747.48
TR9811	0	60.00	63.00	QTZT	Ph		Subcroppings and rubble. Cream coloured to pale grey with alternating dark grey graphitic layers. Weathers creamy and a pale rusty brown. Minor rusty fractured qtz sweats. Well foliated.	466755.49	7083901.82	747.48	466759.50	7083901.97	749.18
TR9811	0	63.00	72.00	QTZT			Med grey qtz with variable qtz crystals; absent to 15%. Lithological description as 42.5-43.5. Generally more massive here. Foliated intervals appear to have a higher percentage of qtz crystals	466758.50	7083901.93	748.76	466767.52	7083902.26	751.38
TR9811	0	72.00	77.00	QTZT	Ph		Med grey phyllitic qtz with qtz eyes overlying well foliated pale to med grey phyllitic qtz	466767.52	7083902.26	751.38	466773.53	7083902.48	751.65
TR9811	0	77.00	102.00	QTZT	Ph		Typically well foliated pale to med grey phyllitic quartzite. Occasional cream coloured and dark grey layers. Weathered surfaces are med limonitic brown. Unit is strongly jointed and sheared. Locally trace calc. Limonitic fractured qtz vns/vnlts commonly	466772.53	7083902.45	751.52	466797.79	7083901.94	755.32
TR9811	1	93.00	102.00	QTZT	Ph,C		Lenses of limey phyllitic qtz and minor weak calc-silicate mineralization. Limey qtz gradually increase as go east. Intercalated. Manganese coated vuggy qtz vns/vnlts often fill fault zones	466788.75	7083902.19	753.63	466797.79	7083901.94	755.32
TR9811	0	102.00	108.00	QTZT,LMST,SKARN	Ph		Intercalated calc phyllitic qtz, lst and poorly developed skarn. Sporadic limonite and manganese coated qtz vns/vnlts. Occasional graphitic seam	466797.79	7083901.94	755.32	466803.74	7083901.63	756.54
TR9811	0	108.00	112.00	QTZT	Ph		Strongly altered and fractured phyllitic qtz. Rusty brown with creamy coloured intervals. Minor graphitic sections. Poorly exposed	466803.74	7083901.63	756.54	466807.71	7083901.42	757.00

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TR9811	0	112.00	122.00	GSCT	Ph		Poorly exposed. Subcropping and rubble of graphitic phyllite. Dark grey to black weathering same and slightly rusty. Very fissle. Minor intervals of pale coloured sericite altered phyllite.	466807.71	7083901.42	757.00	466817.63	7083901.17	758.27
TR9811	0	122.00	126.00	QTZT	Ph		Shattered phyllitic qtz. Med grey weathering pale to med rusty brown and grey	466817.63	7083901.17	758.27	466821.61	7083901.24	759.00
TR9811	0	126.00	142.90	SKARN,QTZT,LMST	Ph		Repetative sequence of skarn, phyllitic qtz, lst. Beds are warped. Competent skarn are fractured while phyllitic qtz layers are sheared along foliation and sheared. Strong to intense limonitic alteration -rusty brown. Skarn beds are up to 70cms wide. fres	466821.61	7083901.24	759.00	466839.00	7083902.67	761.11
TR9812	0	0.00	50.00	QTZT	Fb, Ph		medium grey quartzite weathers tan-brown w rusty FeOx & Black Manganese coating joints. Bands are typically less than 25 cm wide. Phyllitic quartzite is intercalated. Ubiquitious limonitic qtz sweats are generally conformable & vary in size from mm's to cm's thick. Variable manganese is often associated w the qtz as black & silvery coatin	467033.47	7083818.79	780.29	466983.28	7083811.72	778.83
TR9812	0	50.00	76.00	GSCT	F		Dark grey to black graphitic schist. Well foliated. Appears to be a fairly abrupt (over 2m) facies change from QTZT to graphitic schist. Subcircular to circular rusty spots on foliation planes.	466983.28	7083811.72	778.83	466958.16	7083805.74	778.69
TR9812	0	76.00	86.00	MQTS	Ph, F		Intercalated phyllitic quartzite & sericite schist. Locally weakly to moderately graphitic. Unit is highly broken & becomes increasingly shattered to the west as approach limestone contact. Unit weathers tan-brown to locally dark grey.	466958.16	7083805.74	778.69	466948.34	7083804.55	777.05
TR9812	0	86.00	92.00	LMST			Medium to dark grey w fine (mm's) white bands. Weathers same & brown. Joint surfaces are rusty brown. Lust has fine sugary texture. Minor intercalated limey phyllitic quartzite.	466948.34	7083804.55	777.05	466942.42	7083804.14	776.75
TR9812	0	92.00	122.00				Section not trenched, intersected by TR9818	466942.42	7083804.14	776.75	466912.42	7083803.16	776.06
TR9812	0	122.00	159.00	SSCT	F, Ph		Intercalated phyllitic quartzite (~30%), sericite schist(~60%) & graphitic schist(~10%). Typically very fissile & crumbly. Ubiquitous limonitic qtz sweats.	466912.42	7083803.16	776.06	466875.60	7083803.28	770.17
TR9812	0	159.00	162.50	OVB			Dark grey-brown clay & rounded cobbles/boulders caved in. Floor comprised of orange-brown ssct rubble. Minor lmst rubble.	466876.58	7083803.38	770.32	466871.67	7083802.74	769.59
TR9812	0	162.50	165.00	LMST			Poorly exposed dark grey lmst in north & south walls.	466873.15	7083802.89	769.71	466869.70	7083802.54	769.42
TR9812	0	165.00	173.00	SSCT	F		Well foliated sericitic schist. Highly oxidized orange-brown to red-brown, shattered.	466870.69	7083802.64	769.50	466861.84	7083801.63	767.60
TR9812	2	171.80	172.00	SSCT,LMST			Dark grey lmst underlying ssct @ base of wall.	466864.01	7083801.87	768.09	466863.81	7083801.87	768.01
TR9812	0	173.00	179.00	MQZT	Sk, Ph		Sequence of pale to medium grey phyllictic quartzite(~50%) & sericitic schist(~40%). Skarn also as float above trench wall. Difficult to obtain representative samples.	466862.83	7083801.75	767.80	466855.96	7083800.64	767.49
TR9812	0	179.00	190.00	SSCT	F, Ph		Intercalated well foliated sericitic schist & phyllictic qtzt(~30%) @ 189.0-195.0m. Lmst outcrops & As rubble above trench wall.	466856.94	7083800.80	767.60	466846.13	7083799.43	765.44
TR9812	0	190.00	206.00	SSCT	Sk, F		Well follated sericitic schist is dominant lithology. Intercalated phyllitic quartzite comprises < 30% of interval. Skarn occurs as narrow (<=10cm wide) often discontinuous layers. The entire interval is well jointed. Limonitic, fractured qtz sweats occ	466846.13	7083799.43	765.44	466830.48	7083796.57	763.13
TR9812	0	206.00	211.00	SSCT	F, Ph		Well foliated sericitic schist. Phyllitic to foliated intercalated qtzt. Skarn layers appear to pinch out.	466830.48	7083796.57	763.13	466824.62	7083795.44	763.12
TR9812	0	211.00	214.00	SSCT	F,Ph, Sk		As previous, but w narrow (<=10cm) layers of rusty skarn.	466825.60	7083795.60	763.22	466822.65	7083795.14	762.93
TR9812	0	214.00	242.00	SKARN, QTZT	Ph, C		Pale to medium grey-green skarn comprises 30-70% of interval. Calc-silicate altn is variably developed. Phyllitic qtzt comprises the remainder w occasional intercalations of sericitic schist. Skarn layers range from cm's to ~ 50cm wide.	466822.65	7083795.14	762.93	466795.36	7083791.24	759.58

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TR9813	0	0.00	13.00	GSCT	F		Very well foliated dark grey graphitic schist that weathers same w/ patchy rusty FeOx on joint surfaces & Foliation Planes. Sporadic Patchy scoradite is seen on foliation planes. Limonitic & white qtz sweats (clots, VNS/VNLTS) occur throughout. Fine (1-3mm) circular rusty spots are seen on foliation planes & may reflect oxidation of sulphides. The unit is well jointed.	467496.25	7083710.50	786.04	467491.82	7083723.62	785.60
TR9813	0	13.00	32.00	QTZT	Ph, F		Medium grey, microcrystalline. Intercalations of blue-grey quartzite w/ rounded, smokey grey qtz crystals 1-2mm diameter. Foliation planes & joints weather orange-brown to rusty brown. Minor intercalated sericitic wchist weathering rusty. Unit is well	467491.69	7083722.62	785.58	467490.36	7083741.58	785.96
TR9813	1	26.00	26.30	SKARN	Sk		Lens of skarn	467490.78	7083735.59	785.84	467490.64	7083737.59	785.88
TR9813	1	31.00	31.20	SKARN	Sk		Lens of skarn	467490.43	7083740.58	785.94	467490.36	7083741.58	785.96
TR9813	0	32.00	45.00	SSCT	F		Well foliated sericitic schist is the dominant lithology & comprises >= 66% of the unit. Phyllitic quartzite comprises >= 25% & lenses of skarn comprises the remainder of the unit. All lithologies weather orange & rusty brown. Gradation from Qtzt (13.0	467490.36	7083741.58	785.96	467489.25	7083755.53	786.24
TR9813	1	38.00	38.00	SKARN	Sk		Restricted to the core of an overturned fold.	467489.94	7083747.56	786.08	467489.94	7083747.56	786.08
TR9813	1	40.50	43.00	SKARN	Sk		Finely banded - green & white.	467489.77	7083750.06	786.13	467489.52	7083753.55	786.20
TR9813	0	45.00	55.00	SSCT	F, Sk		Up to 0.5 m wide skarn bed overlying sericitic schist. Skarn varies from pale green-grey to medium green w/ or without white bands. Mm' scale schist	467489.38	7083754.54	786.22	467487.85	7083765.43	786.44
TR9813	0	55.00	64.00	LMST	Sk		~10cm wide dark grey limestone horizon w/ skarn. Losing depth of trench. Mainly overburden & rubble. Sericitic schist probably underlying - difficult to determine because of rubble.	467487.99	7083764.44	786.42	467486.19	7083773.24	786.80
TR9813	0	64.00	88.00	SSCT,SKARN,LMST			Rubble of sericitic schist, skarn & lesser limestone from 64-76m - bedrock? Skarn comprises from 10-50% of the unit.	467486.19	7083773.24	786.60	467480.40	7083796.45	787.56
TR9813	0	88.00	92.00	LMST			Subcroppings & outcroppings of dark grey limestone. Locally finely banded by white CaC03. Fe-oxidation is less intense than in previous units. Limestone/schist contact appears to be striking 102 degrees.	467480.40	7083796.45	787.56	467480.12	7083800.44	788.12
TR9813	0	92.00	100.00	SKARN,SSCT			Interbedded skarn & sericitic schist. Skarn comprises >65% of interval.	467480.12	7083800.44	788.12	467479.36	7083808.40	788.40
TR9813	0	100.00	110.00	SSCT	Sk		Interval dominantly sericitic schist. Minor random lenses of skarn. Unit is very fissile & broken.	467479.36	7083808.40	788.40	467478.04	7083818.31	789.44
TR9813	0	110.00	112.50	LMST	Sk		Skarn in hanging wall & footwall of Lmst. Dark grey lmst bed ~ 50cm wide.	467478.04	7083818.31	789.44	467477.34	7083822.25	790.34
TR9813	0	112.50	121.80	MSCT	Sk, F		Interval comprised of sericitic schist (~30%) & skarn(~30%). Strongly limonitic & broken. Skarn bands range in thickness from cm to 10cm wide.	467477.60	7083820.77	790.06	467475.30	7083829.89	791.54
TR9813	2	118.00	121.80	GSCT			Narrow (1-3cm wide) graphitic bands, closely spaced. Appear as shear bands along foliation.	467476.65	7083826.19	791.10	467475.30	7083829.89	791.54
TR9813	0	121.80	127.50	LMST , QTZT	Sk, Ph		Largely rubble & subcroppings, resistant ridge in trench. Medium to dark grey lmst appears dominant. Weakly developed skarn & variable limey phyllitic qtzt appear to enclose lmst @ 125.0-127.5m rubble & rare subcroppings of intense pervasive manganese a	467475.40	7083829.72	791.54	467472.33	7083835.10	791.68
TR9813	0	127.50	135.00	MQZT	F, Ph, Sk		Medium grey phyllitic qtzt overlying & intercalated w/ well foliated sericitic schist. Strong orange brown weathering. Qtzt variably calcareous. Minor lenses of weak calc-silicate altn.	467472.57	7083834.67	791.68	467468.09	7083841.89	793.68
TR9813	0	135.00	139.00	GSCT	F		Dark grey to black well foliated graphitic schist. Sparse limonitic & white fractured qtz sweats.	467468.62	7083841.04	793.64	467465.97	7083845.28	793.84
TR9813	0	139.00	150.00	QTZT	FB, C		Fine-bedded to locally medium-bedded dark grey qtzt. Fine light & dark bands within beds is relatively common. Well jointed. Blocky appearance. Sparse, very weak calc-silicated altn. Qtzt often slightly calcareous.	467466.50	7083844.43	793.80	467460.67	7083853.76	794.24

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TR9813	0	150.00	178.00	MQZT	Sk		Intercalated phyllitic to fine-banded medium to dark-grey qtzt & foliated sericitic schist. Weak to moderately developed pale to medium grey-green skarn comprises >= 30% of the sequence. Individual skarn layers range up to 0.5m thick.	467460.67	7083853.76	794.24	467451.85	7083880.15	795.04
TR9813	2	153.50	153.70	LMST			Narrow dark grey, weakly banded lmst beds.	467459.08	7083856.88	794.10	467458.86	7083857.33	794.08
TR9813	2	156.10	156.50	LMST			Narrow dark grey, weakly banded lmst beds.	467457.90	7083859.20	794.00	467457.04	7083860.89	793.92
TR9814	2	0.00	6.00	LMST	Sk	bl-gy		467481.37	7083790.06	786.95	467475.38	7083790.37	787.37
TR9814	0	0.00	6.00	MSCT	C, Sk, G, Sc	bl-gy	A highly deformed mixed bag of schist, QTZT & LMST. Lmst is <=20% bands <= 0.2m variably skarned. DJB believes this is where fault seen in 98-10 intersects 98-14 before it crosses 98-13.	467481.37	7083790.06	786.95	467475.38	7083790.37	787.37
TR9814	2	6.00	60.00	MQZT				467475.38	7083790.37	787.37	467421.59	7083793.30	787.37
TR9814	0	6.00	60.00	LMST	Sk,Mb,Ph,	bl-gy	A marblized Lmst bed 1m thick trending down center of trench. The entire LMST unit shows warying degrees of Alteration increasing from present through trace to extensive from center of unit. The degree of skarification also depends m the amount of schist. The LMST is flanked & in places intrbdd/sericitic schist. This causes the Lmst to both on the edges (up to 0.5m wide)/ a noticeable increase in the degree of skarnification. In general degree of skarnification decreases as you go west along the trench b	467475.38	7083790.37	787.37	467421.59	7083793.30	787.37
TR9814	0	60.00	76.00	LMST				467421.59	7083793.30	787.37	467405.60	7083793.86	787.53
TR9814	1	76.00	128.00	MQZT	Ph,Sr,Sk,G		The LMST is bounded by a mixed quartzite, up to 50% schist mainly sericitic & contiue skarned bands (calcareous qtzt) - very rusty in fractures.	467405.60	7083793.86	787.53	467353.66	7083795.88	787.13
TR9814	0	76.00	128.00	LMST	Sk,Ph,Mb	bl-gy	The lmst appears to narrow. Amount of skarn is variable but still nearly 100% of the LMST has been skarnified to some extent. Bands of LMST(0.05 to 1m) are separated by schist(<0.01 to 0.2m).	467405.60	7083793.86	787.53	467353.66	7083795.88	787.13
TR9815	0	0.00	11.50	SSCT	F		Well foliated sericitic schist. Very minor graphitic schist layers & weakly graphitic sericitic schist. Typically buff to pale grey weathering a strong orange & rusty brown. Trace to moderately limey partings. Ubiquitious limonitic, fractured QTZ swea	467111.99	7083778.56	780.29	467102.46	7083787.58	779.72
TR9815	1	1.00	4.00	SKARN			30-40cm wide layer of weakly to moderately devaloped sk. Strong rusty weathering.	467111.15	7083779.27	780.23	467108.65	7083781.41	780.06
TR9815	0	11.50	18.00	LMST,SSCT			Interval comprised of ~60% meta-lmst & ~40% sericitic schist. Exposed lmst sequences up to 75cm thick. Lmst has a sugary texture & is often dark grey w/ buff colored layers present in H.W. of sill. The entire interval is rotten; strongly jointed & weathering rusty brown. Shear bands comprised of narrow gouge seams along foliation is common. Limonitic qtz sweats.	467102.76	7083787.11	779.72	467098.87	7083793.25	779.73
TR9815	0	18.00	19.00	GRNT	C,M		Granitic sill 70cm wide. Pale grey w/ fine, <=1mm, black specks. F.G. sugary texture. Largely uniform grain size, composed largely of qtz, feldspar & biotite. Rare phenocryst(?)/porphyroblast(?) of biotite. Rusty specks reflecting oxidized sulphides(	467098.87	7083793.25	779.73	467097.67	7083795.14	779.73
TR9815	0	19.00	39.50	SSCT	F, G		Interval comprised largely of sericitic schist w/ graphitic layers. Minor intercalated medium to dark grey qtzt. Sparse dark grey qtz eyes in qtzt proximal to felsic sill. Ubiquitous fractured, limonitic qtz clots vns/vnlts that are generally	467098.27	7083794.19	779.73	467081.93	7083810.23	780.18
TR9815	2	19.70	20.50	SKARN,LMST			Buff colored meta-lmst adjacent to sill. Well developed cal & ankgrite xls on fractures. Lmst grades west to variably (weak to moderate) developed skarn.	467097.85	7083794.85	779.73	467096.29	7083796.87	779.82
TR9815	1	23.50	24.20	SKARN,LMST			Dominantly weak to moderately developed sk.	467095.25	7083798.18	779.88	467093.51	7083800.35	779.99
TR9815	1	28.30	30.10	SKARN,LMST				467091.92	7083802.35	780.08	467088.98	7083805.10	780.16
TR9815	1	32.00	33.60	SKARN,SSCT			Moderately developed skarn. Intercalated sericitic schist.	467088.98	7083805.10	780.16	467087.22	7083806.38	780.16

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TR9815	1	39.50	72.00	QTZT	Ph		Sharp contact w/ overlying schist. Fresh surfaces have striped appearance due to mm's wide layers of white to grey qtz enclosed by dark grey <= mm wide bands. The unit is typically phyllitic to locally fine-banded (bands up to 25cm thick). It is interm	467082.37	7083809.91	780.18	467051.09	7083821.68	779.69
TR9815	0	72.00	90.00	MQZT	Ph, F		Gradual increase in sericitic schist intercalated w/ striped phyllitic quartzite. Ubiquitous white & limonitic fractured qtz sweats. Manganese oten coats fractures & selvages of qtz. Well jointed. Folded. Minor fine bands(<=10cm wide) of mineralized sk	467051.09	7083821.68	779.69	467033.47	7083818.79	780.29
TR9815	2	78.00	78.20	SKARN			Weak calc-silicate altn. Siliceous.	467045.03	7083821.39	779.82	467043.11	7083820.96	779.85
TR9815	2	81.00	82.00	SKARN			Weak calc-silicate altn. Siliceous. Well mineralized.	467042.14	7083820.74	779.86	467041.18	7083820.52	779.87
TR9816	0	0.00	14.00	QTZT,SKARN	Ph		Interbedded foliated sericitic schist (10%), phyllitic quartzite(40%) & skarn(50%). Skarn layers vary from <= 10cm wide to 70cm wide. Calc-silicated altn is moderately well developed. The unit is strongly jointed & rusty. Narrow, cm's wide, graphitic	466931.09	7083778.79	772.96	466928.18	7083792.48	774.92
TR9816	0	14.00	26.00	QTZT	Ph		Phyllitic to foliated medium grey to off-white quartzite. Occasional layers w/ smokey grey qtz eyes. Rusty spots & cubic imprints occur on foliation planes. Very weakly developed skarn locally - minor. Unit is well jointed & moderately rusty. Sharp c	466928.18	7083792.48	774.92	466925.15	7083804.07	776.32
TR9816	0	26.00	29.00	LMST	TB		Pale to medium grey meta-limestone. Fine to coarse sugary texture. Occasionally banded. Minor very weak calc-silicate altn. Jointed.	466925.15	7083804.07	776.32	466923.78	7083807.83	776.60
TR9816	0	29.00	56.00	QTZT,SKARN,LMST	Ph		Fairly regularly intercalated phyllitic qtzt (~60%) & skarn (~30%) +- lmst(~10%). Phyllitic qtzt is medium grey, locally striped. Adjacent to skarn/lmst beds it is buff colored & moderately calcareous. Skarn layers vary in thickness from several cm's t	466924.12	7083806.89	776.53	466911.47	7083830.22	776.68
TR9816	0	56.00	64.20	GSCT,QTZT	G, F		Graphite content increases as approach fault @ 63.8-64.2m. Intercalated graphitic striped quartzite & graphitic schist. Well foliated & jointed ubiquitous qtz sweats/UNS.	466911.47	7083830.22	776.68	466905.15	7083837.87	776.30
TR9816	0	64.20	106.00	QTZT	Ph		Typically medium grey to dark blue grey phyllitic quartzite & striped(black & white) phyllitic qtzt. The grey to blue grey qtzt often has smoky to dark grey qtz eyes that are 0.5-3.0mm in diameter & may comprise up to 30% of a band. The larger qtz eyes Rusty spots & cubic py inprints on foliation planes are not uncommon. Individual layers range from mm's to roughly 10cm wide. The unit is well jointed. Minor intercalated skarn & limey Qtzt.	466906.21	7083836.41	776.38	466877.93	7083867.10	772.46
TR9816	1	69.00	70.00	GSCT				466902.99	7083839.95	776.15	466902.27	7083840.64	776.10
TR9816	2	73.00	75.00	QTZT,SKARN	C		Limey Qtzt & Skarn	466900.11	7083842.73	775.95	466897.95	7083844.81	775.80
TR9816	2	82.00	85.00	QTZT,SKARN	C		"	466893.66	7083849.01	775.10	466890.83	7083851.83	774.10
TR9816	2	92.00	94.00	QTZT	C		Limey Qtzt	466886.90	7083856.36	772.88	466885.64	7083857.91	772.52
TR9816	2	103.00	106.00	QTZT,SKARN	Ph		Skarn comprises ~20% of interval	466879.86	7083864.81	772.61	466877.93	7083867.10	772.46
TR9816	0	106.00	114.00	GRNT	C,F		Buff colored rhyolite dike. Fine-grained, argillic weathering-friabla. Moderately to strongly calcareous. Strongly foliated except for block @ contact & @ 110m. Well jointed. Weathered appearance is buff & rusty. Crumbly thin layers w/ rusty spots(2-? Trench ends in dike	466877.93	7083867.10	772.46	466872.79	7083873.23	772 70
TR9817	0	0.00	34.00	MQZT	Ph, Sr	wh-bl	Weakly weathered mixed quartzite, 40% sericitic schist). No alt, no skarn.	467104.83	7083724.86	779.61	467105.09	7083757.42	779 39
TR9817	2	3.60	5.00	SSCT		wh-gy		467104.22	7083729.33	779.54	467103.81	7083732.31	779.49
TR9817	2	13.00	13.80	SSCT		wh-gy		467102.62	7083740.99	779.35	467102.45	7083742.23	779.33
TR9817	2	25.80	26.60	SSCT		wh-gy		467102.74	7083751.95	779.41	467103.02	7083753.58	779.45
TR9817	2	29.10	29.50	GSCT		bl	From 29.5-30.5 there is indication of a steep structure trending ~70%.	467103.40	7083754.29	779.44	467103.71	7083754.86	779 43
TR9817	2	30.00	30.40	MSCT		bl-gy	Bluish-black graphitic schist/ 30% Ph QTZT & 15% SSCT.	467103.71	7083754.86	779.43	467104.40	7083756 14	779.41
TR9817	0	34.00	54.00	GSCT		bl-gy		467105.09	7083757.42	779 39	467111 80	7083771.41	780 05

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TR9817	0	54.00	60.00	QTZT	Mb,Ph,C,Sk	bl-wh	Interbanded medium banded Quartzite and mixed quartzite; mod. calcite/ minor skarn.	467111.80	7083771.41	780.05	467111.61	7083777.94	780.29
TR9817	0	60.00	73.00	MQZT	Ph,Se,C,Sk	bl-gy	Phyllitic Qtzt, 35% schist, majority being sericitic, variably but generally weakly calcareous with minor skarn comprised of detached blocks. From 70-74 just below a shallow shear is a 1-5cm yellowish quartz/possible plagioclase, either a clean quartzite or felsic volcanic.	467111.61	7083777.94	780.29	467116.39	7083786.60	780.89
TR9817	0	73.00	76.50	LMST	Mb, Ph, Sk	wh-bl	Recrystallized medium banded limestone with monor skarn & schistoze(Ph) partings - The limestone unit is flanked by Qtz veins up to 0.05 m wide.	467116.28	7083785.86	780.86	467116.82	7083789.59	781.01
TR9817	0	76.50	79.60	MQZT	Ph,C,Sk,Mb	bl-gy	Mixed quartzite initially Mb grading to Fb initially showing a "ribbon qtz" texture, variable calcareous content plus skarn, 30% schist mainly sericitic.	467116.66	7083788.47	780.96	467117.03	7083792.09	781.13
TR9817	0	79.60	80.20	GRNT	Fg	pl wh	See trench 98-15 notes	467116.99	7083791.59	781.11	467116.97	7083794.60	781.25
TR9817	0	80.20	90.80	MQZT	Ph,C,Sk,Fb	bl-gy	see 76.5 to 79.6, same except the banding is now fine	467117.03	7083792.34	781.14	467116.66	7083807.15	781.53
TR9817	0	90.80	96.00	MQZT			Previous unit forming a displaced block above the GSCT.	467116.69	7083805.65	781.55	467116.53	7083812.18	781.45
TR9817	2	90.80	96.00	GSCT	Qs	bl-gy	Graphitic schist, up to 10% quartz sweats + 20% fine banded Quartzite.	467116.69	7083805.65	781.55	467116.53	7083812.18	781.45
TR9817	0	96.00	97.50	MQZT	Fb,Se,C,Sk	bl-gy	See 80.2-90.8	467116.53	7083812.18	781.45	467116.47	7083814.69	781.41
TR9817	0	97.50	102.00	QTZT	Mb,C,Sk	bl-gy	A medium banded, ribbon textured quartzite/ variable calcareousness & associated skarn. Numerous gr uge filled fractures & joints	467116.48	7083814.06	781.42	467116.34	7083819.71	781.33
TR9818	0	0.00	22.00	MQZT	Ph,Sr,Qv	wh-gy	Very fine banded/starts 1-2cm bands decreasing in width as go North along the trench. Qtzt comprises 65% of the unit and SSCT 35%	467179.15	7083655.16	772.78	467178.00	7083677.13	768.80
TR9818	0	22.00	39.80	OVB			Fine sand overlain by organics. Trench reached water table @ 22m.	467178.00	7083677.13	768.80	467177.06	7083695.10	771.44
TR9818	0	39.80	58.60	MQZT	Ph,Fb,Sr,Qs	wh bl gy	"Ribbon" banded quartzite(boudinaged). Fb to Mb @ 42 & 50. Extensive biotization & seritization. Qtzt ~60% SSCT~40%. SSCT is primarily in bands <0.5m, a few >1m.	467177.07	7083694.90	771.40	467176.01	7083715.08	775.06
TR9818	0	58.60	59.20	GRNT	M, Qv	yl wh	Granite sill sub to fol. Comprised of 1mm qtz/minor plagioclase. No mafins/sulphides noted, trace calcium, several 0.5mm qtz Vnlts - random noted.	467176.08	7083713.68	774.91	467176.01	7083715.08	775.06
TR9818	0	59.20	60.20	QTZT	Ph,Sr,C,Sk	bl gy	A phyllitic sericitic quartzite/ minor calcium & trace skarn development - fault contact/ GSCT	467176.05	7083714.28	774.97	467175.90	7083717.07	775.06
TR9818	0	60.20	67.80	GSCT	Qs,Qv	bl bk	Blue Black graphitic schist intrbdd/30% ribbon quartzite & 10% Qs & Qv	467176.00	7083715.28	775.06	467175.59	7083723.06	775.06
TR9818	0	67.80	78.60	MQZT	Ph,Fb,Sr,Qs	wh bl	see 39.8-54.6	467175.60	7083722.86	775.06	467174.96	7083735.05	775.06
TR9818	0	78.60	98.80	MQZT	Fb,Ph,Sr,C,Sk	bl gy	Main diff. between this and the previous sxn is the calcareous bands / associated skarn & sulphide mineralization & the 5 fold increase in gouge filled fracture & joints.	467175.04	7083733.65	775.06	467175.31	7083755.03	775.22
TR9818	2	89.20	90.20	MSCT				467174.93	7083744.24	775.11	467175.03	7083747.04	775.14
TR9818	2	92.00	93.00	MSCT				467175.03	7083747.04	775.14	467175.10	7083749.04	775.16
TR9818	2	95.80	96.20	SSCT				467175.16	7083750.84	775.18	467175.24	7083753.03	775.20
TR9818	0	98.80	110.80	GSCT	Qs,Qv	bl bk	See 60.2-67.8	467175.27	7083753.83	775.21	467175.45	7083767.03	775.34
TR9818	0	110.80	111.60	MQZT	Ph,Sr,G,C,Sk	bl gy	Interbdd calcareous quartzite/ variable skarn & sulphide mineralization & sericite & graphitic schist.	467175.49	7083765.83	775.33	467175.45	7083767.03	775.34
TR9818	1	110.80	149.60	MQZT	Fb,Ph,Sr,C,Sk		Similar to 78.6-98.6. Has a deeper red brown weathering color, except instead of schist interbands, there are limestone interbands giving the sxn an overall 2-3 fold increase in calcareous material.	467175.49	7083765.83	775.33	467175.10	7083804.96	776 44
TR9818	0	111.60	112.40	LMST	Mb,Sk	wh bl	Sub-massive lmst/variable quartzite & skarn min.	467175.46	7083766.63	775.34	467175.38	7083769.02	775 36
TR9818	0	112.40	114.40	MQZT	Ph,Sr,G,C,Sk	bl gy	See 110-111.6	467175.44	7083767.43	775.34	467175.31	7083771.02	775 38
TR9818	0	114.40	116.00	LMST	Mb,Sk	wh bl	See 111.6-112.4	467175.37	7083769.42	775.36	467175.31	7083771 02	775.38
TR9818	0	116.00	119.20	MQZT	Ph,Sr,G,C,Sk	bl gy	See110.8-111.6	467175.31	7083771.02	775.38	467175.17	7083775.02	775.42
TR9818	0	119.20	119.60	LMST	Mb,Sk		See 111.6-112.4	467175.20	7083774.22	775.41	467175.17	7083775.02	775.42
TR9818	0	119.60	125.60	MSCT	Sr,G,Ph,C,Sk	bl gy	See 110.8-111.6, except schist is predominant & calcareous portion halved	467175.19	7083774.62	775.42	467174.96	7083781.02	775.48
TR9818	0	125.60	126.20	MQZT	Ph,Sr,G,C,Sk	bl gy	See 110.8-111.6	467174.98	7083780.62	775 48	467174.89	7083783 02	775 50
TR9818	0	126.20	127.70	LMST	Mb,Sk	wh bl	See 111.6-112.4	467174.96	7083781.22	775.48	467174.89	7083783.02	775 50

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TR9818	0	127.70	133.40	MQZT	Ph,Sr,G,C,Sk	bl gy	See 110.8-111.6	467174.90	7083782.72	775.50	467174.68	7083789.01	775.56
TR9818	0	133.40	136.40	MSCT	Sr,G,Ph,C,Sk	bl gy	See 119.6-125.6	467174.70	7083788.41	775.55	467174.96	7083793.00	775.80
TR9818	0	136.40	137.80	LMST	Mb,Sk	wh bl	See 111.6-112.4	467174.85	7083791.41	775.70	467174.96	7083793.00	775.80
TR9818	0	137.80	139.20	MQZT	Ph,Sr,G,C,Sk	bl gy	See 110.8-111.6	467174.95	7083792.80	775.79	467175.10	7083795.00	775.92
TR9818	0	139.20	140.40	GRNT	C	wh gm	1mm phenos qtz, plag, biotites, sericite, chlorite, calcareous	467175.05	7083794.20	775.87	467175.24	7083796.99	776.04
TR9818	0	140.40	140.60	MQZT	Ph,C,Sk	bl gy	See 110.8-111.6	467175.13	7083795.40	775.94	467175.24	7083796.99	776.04
TR9818	0	140.60	141.50	LMST	Mb,Sk	wh bl	See 111.6-112.4	467175.14	7083795.60	775.96	467175.24	7083796.99	776.04
TR9818	0	141.50	143.00	MQZT	Ph,Sr,G,C,Sk	bl gy	See 110.8-111.6	467175.21	7083796.49	776.01	467175.38	7083798.99	776.16
TR9818	0	143.00	143.80	LMST	Mb,Sk	wh bl	See 111.6-112.4	467175.31	7083797.99	776.10	467175.38	7083798.99	776.16
TR9818	0	143.80	144.80	MQZT	Ph,Sr,G,C,Sk	bl gy	See 110.8-111.6	467175.37	7083798.79	776.15	467175.52	7083800.98	776.28
TR9818	0	144.80	145.80	LMST	Mb,Sk	wh gy	See 111.6-112.4	467175.44	7083799.79	776.21	467175.52	7083800.98	776.28
TR9818	0	145.80	146.20	SSCT		wh gy	grades to MQZT	467175.51	7083800.78	776.27	467175.31	7083802.97	776.36
TR9818	0	146.20	150.00	MQZT	Ph,Sr,g,C,Sk	bl gy	See 110.8-111.6	467175.50	7083801.18	776.29	467175.10	7083804.96	776.44
TR9818	0	150.00	164.60	MSCT	Sr,G	bl gy	Broken rubble comprised of sericitic & graphitic schist fragments and a few calcareous quartzite fragments.	467175.10	7083804.96	776.44	467174.58	7083820.88	776.54
TR9818	0	164.60	168.00	MQZT	Fg		Completely crushed and gouge filled fault zone.	467174.46	7083819.49	776.61	467174.75	7083822.88	776.12
TR9818	0	168.00	176.00	MQZT	Ph,Sr,G,Fb		Fine banded to phyllitic quartzite/ some sericitic & graphitic schist. Minor quartz veins & sweats - horizontal shears.	467174.75	7083822.88	776.12	467175.45	7083830.85	775.88
TR9818	0	176.00	180.00	MSCT	G,Sr		As above but has graded to schist & is separated from above by shallow sheer.	467175.45	7083830.85	775.88	467175.80	7083834.83	776.00
TR9819	0	0.00	5.00	SSCT	F		Well foliated tan to grey sericitic schist. >=33% foliated medium grey quartzite intercalated. Minor ubiquitous qtz sweats. Jointed	467274.13	7083693.25	781.17	467274.55	7083699.24	781.47
TR9819	2	5.00	7.00	QTZT	Tb		Thin bands up to 25cm wide.	467274.48	7083698.24	781.42	467274.69	7083701.23	781.57
TR9819	0	5.00	11.00	QTZT	Ph		Phyllitic quartzite. Striped appearance due to mm's wide bands of black & white. Minor intercalated sericitic schist. Qtz sweats as clots & veins - typically fractured, limonitic & w/ manganese coating.	467274.48	7083698.24	781.42	467274.97	7083705.22	781.77
TR9819	0	11.00	12.00	GSCT			Bed of graphitic schist & graphitic phyllitic Qtzt.	467274.90	7083704.22	781.72	467274.97	7083705.22	781.77
TR9819	0	12.00	15.50	QTZT	Ph		Phyllitic to locally thin banded striped quartzite.	467274.97	7083705.22	781.77	467275.25	7083709.21	781.97
TR9819	0	15.50	18.00	MQZT	F, G		Intercalated sericitic schist, minor graphitic schist (<20%) & finely banded qtzt. Interval is very fissile & fractured.	467275.21	7083708.71	781.94	467275.39	7083711.21	782.07
TR9819	2	18.00	20.00	SKARN	Sk		Moderate calc-silc silicate altn.	467275.39	7083711.21	782.07	467275.53	7083713.20	782.17
TR9819	0	18.00	26.50	QTZT	Ph,Sk		Strongly rusted phyllitic qtzt. Finely striped appearance. Numerous Narrow limonitic gouge seams. Limonitic qtz vns jointed. Narrow lenses of skarn. Locally diss Po in qtzt.	467275.39	7083711.21	782.07	467276.09	7083721.18	782.57
TR9819	2	21.00	21.50	SKARN	Sk		Siliceous skarn.	467275.60	7083714.20	782.22	467275.67	7083715.20	782.27
TR9819	0	26.50	34.50	QTZT	Ph,G		Fairly uniform unit of variably graphitic phyllitic qtzt. Finely striped dark grey & white. Rusty joint surfaces. Well jointed. Minor intercalated graphitic schist.	467275.98	7083719.69	782.49	467276.64	7083729.16	782.97
TR9819	0	34.50	41.00	QTZT	Hf, Ph		Phyllitic to foliated hornfelsed quartzite. Fresh surfaces are dark grey to brown, biotite rich w/ fine diss Po(?) aligned along foliation planes. Intercalations of graphitic qtzt to graphitic schist. Strong Fe Oxidation. Displaced block.	467276.54	7083727.67	782.89	467277.06	7083735.15	783.27
TR9819	0	41.00	48.00	QTZT,GSCT	Ph,G		Phyllitic graphitic striped qtzt & minor interbedded graphitic schist. North verging folds @ top of west trench wall.	467276.99	7083734.15	783.22	467277.32	7083741.13	783.60
TR9819	0	48.00	60.00	QTZT	Tb		Thin banded to locally phyllitic Qtzt. Stripes not as apparent; Pale grey & white. Occasionall black & white stripes.	467277.32	7083741.13	783.60	467277.17	7083753.10	784.39
TR9819	0	60.00	64.00	SKARN	Tb		Thin to locally medium banded variably developed skarn. Fresh surfaces vary from pale grey green to dark green w/ trace to strong diss & fracture calcite. Rusty, strongly jointed.	467277.17	7083753.10	784.39	467276.91	7083757.10	784.67
TR9819	0	64.00	71.00	QTZT	Ph,Sk		Phyllitic buff to pale grey w/ clear subrounded qtz eyes. Minor, <20%, interbedded weakly developed skarn.	467276.91	7083757.10	784.67	467275.97	7083765.15	785.27
TR9819	0	71.00	74.00	LMST	Tb		Pale grey meta-limestone. Medium-grained sugary texture. Sporadic very weak skarn. Subcroppings & resistant ridge..	467276.09	7083764.14	785.20	467275.74	7083767.16	785 42
TR9819	0	74.00	77.00	SSCT	F		Buff to pale grey-brown well foliated sericitic schist.	467275.74	7083767.16	785.42	467275.27	7083771 19	785.72
TR9819	2	76.00	77.00	QTZT	Ph,Hf		Phyllitic quartzite, weekly hornfelsed (biotite) w/ very fine diss Po. Intercalated SSCT.	467275.51	7083769 17	785.57	467275.27	7083771.19	785.72
TR9819	0	77.00	79.50	LMST			Pale grey to buff meta-limestone. Local very minor skarn developed as weak chl. Subcropping & resistant ridge.	467275.39	7083770.18	785.65	467275.04	7083773 20	785 88

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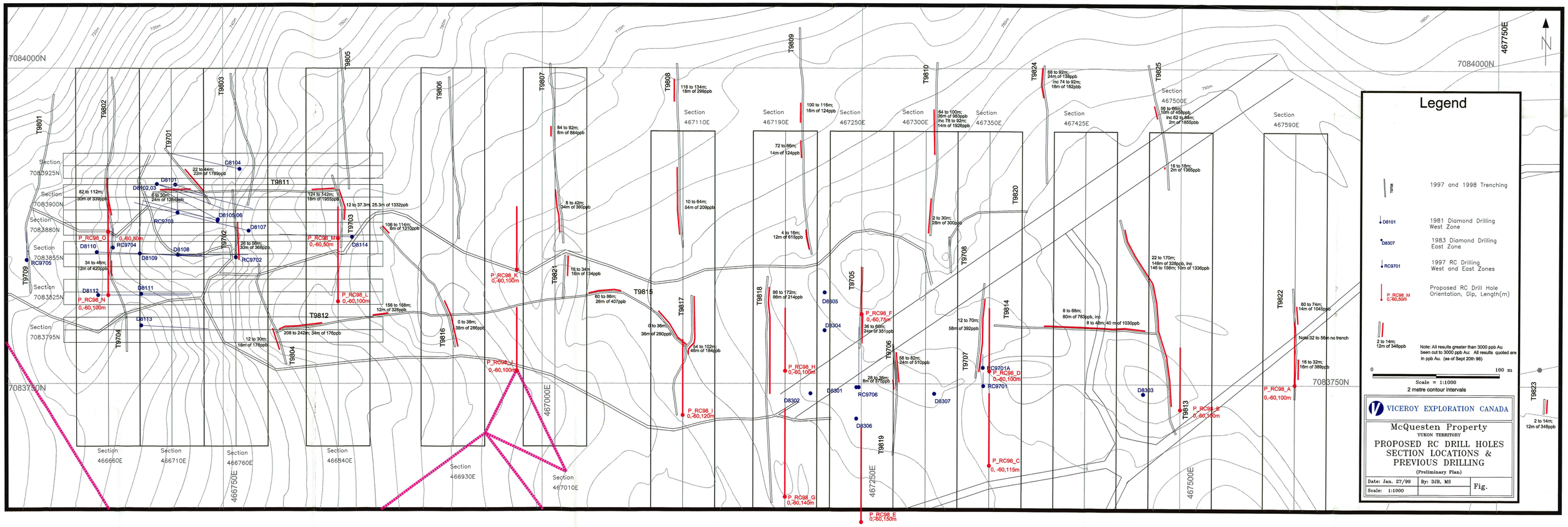
TR9819	0	79.50	88.00	MQZT	G		Finely intercalated sericitic & graphitic schist & phyllitic qtzt w/ qtz eyes. Part of displaced block.	467275.10	7083772.69	785.84	467274.10	7083781.25	786.48
TR9819	2	80.40	80.60	SKARN	Sk		Pocket of dark green skarn w/ intense manganese altn.	467274.99	7083773.60	785.91	467274.80	7083775.21	786.03
TR9820	0	0.00	4.50	LMST	Sk		Dark grey to black, weakly banded limestone. Sheared along bedding/foliation where a 5-10cm wide band occurs below the shear. Lmst is draped sub-parallel to northerly trending fault @ 4.5 m. Lmst does not occur west of fault.	467378.91	7083886.02	787.60	467372.94	7083886.37	787.07
TR9820	0	4.50	11.50	QTZT,SKARN	Ph		Phyllitic quzt w/ <=5cm wide layers of skarn consisting of chl-cal-Po+-Qtz & Chl-Bio-Po. Skarn comprises <30% of interval. Qtzt occasionally has qtz eyes. Strongly limonitic.	467374.43	7083886.42	787.10	467366.94	7083886.16	786.98
TR9820	0	11.50	42.50	SSCT	F		Pale grey, yellow-grey to green-grey & orange sericitic layers of graphite & graphitic schist. Minor intercalated qtzt & layers of skarn. Interval either represents a fault block or fault plane parallel to sub-parallel to trench(E-W trending fault). ub	467367.44	7083886.18	786.99	467335.61	7083882.53	786.41
TR9820	2	18.00	24.00	MQZT	Sk		~20% moderately daveloped skarn layers	467360.94	7083885.95	786.89	467354.95	7083885.74	786.80
TR9820	2	28.00	31.00	SSCT	Sk		20-30cm wide skarn layer	467350.95	7083885.60	786.74	467346.95	7083885.46	786.68
TR9820	0	42.50	49.00	MQZT,LMST	F,Sk		Intercalated phyllitic to foliated qtzt & sericitic schist. 10-30cm wide dark grey to black thinly bedded lmst @ bse of trench. As go west along lmst bed it becomes pale grey & coarsely crystalline. Locally lmst displays weak to moderate calc-silicate	467336.95	7083883.21	786.46	467330.26	7083879.81	786.23
TR9820	0	49.00	55.00	SSCT	F, G		Moderately to strongly altered sericitic schist & ~20% intercalated graphitic schist. Still within fault zone	467331.15	7083880.26	786.26	467326.09	7083875.49	785.51
TR9820	0	55.00	60.00	LMST,QTZT	Ph, Sk		Dark grey, weakly banded lmst beds up to 50 cm wide. Interbedded phyllitic quartzite. Thin skarn layers comprise <20% of interval.	467326.79	7083876.21	785.63	467324.03	7083872.06	785.39
TR9820	0	60.00	68.00	QTZT,SKARN	Ph		Interbedded phyllitic quartzite & moderately developed skarn. Skarn comprises ~50% of interval.	467324.03	7083872.06	785.39	467319.91	7083865.20	785.15
TR9820	0	68.00	74.00	LMST			Dominantly dark grey banded lmst. Interbedded qtzt @ 72-74m	467319.91	7083865.20	785.15	467319.29	7083859.24	785.09
TR9820	1	72.00	74.00	QTZT			Interbedded QTZT	467319.50	7083861.23	785.11	467319.29	7083859.24	785.09
TR9821	0	0.00	4.00	QTZT	Ph		0-2m strongly limonitic phyllitic qtzt	467015.59	7083817.10	780.10	467015.80	7083821.10	780.26
TR9821	2	2.00	3.00	SSCT	G		Interbed of weakly graphitic sericitic schist.	467015.70	7083819.10	780.18	467015.80	7083821.10	780.26
TR9821	0	4.00	10.00	QTZT	Tb		Thin banded to locally phyllitic weakly to moderately striped qtzt (black & white) & dark grey semi-massive biotite hornfelsed qtzt. White stripes occasionally seen as mm scale boudins. Blocky. Weak Fe-oxidation. Well jointed.	467015.80	7083821.10	780.26	467016.12	7083827.09	780.50
TR9821	0	10.00	16.00	QTZT,GSCT	F,G		Dominantly foliated graphitic quartzite; white qtz & graphitic bands. Minor intercalated graphitic schist. Sparse white & limonitic qtz clots/boudins. Foliation planes commonly have rusty spots & scorodite coating.	467016.12	7083827.09	780.50	467016.43	7083833.08	780.74
TR9821	0	16.00	17.50	QTZT	Ph		Limonitic phyllitic qtzt	467016.43	7083833.08	780.74	467016.53	7083835.08	780.82
TR9821	0	17.50	21.00	LMST			Dark grey variably banded lmst. Detached block. Sericatic schist & blocks of skarn sitting within detached block @ top of trench wall.	467016.51	7083834.58	780.80	467016.74	7083839.07	780.98
TR9821	0	21.00	25.50	MQZT	Ph,Sk		Within detached block. Mixture of phyllitic quartzite & sericitic schist. <20% skarn as <=10cm wide layers. Pelitic rocks are strongly clay altd - mush.	467016.69	7083838.08	780.94	467016.95	7083843.07	781.14
TR9821	0	25.50	29.00	GSCT	F		Well Foliated graphitic schist. Minor intercalated phyllitic qtzt.	467016.93	7083842.57	781.12	467017.16	7083847.06	781.30
TR9821	0	29.00	34.00	QTZT,SKARN			Phyllitic to thin banded quartzite & intercalated skarn. Minor sericitic schist.	467017.11	7083846.06	781.26	467017.37	7083851.06	781.46
TR9822	0	0.00	5.00	QTZT,SKARN			Very deep water pudde @ base of trench	467589.35	7083739.00	788.33	467589.56	7083745.00	788.09
TR9822	0	5.00	13.50	SKARN			Dominantly tan & rusty skarn. Minor sericitic schist & quartzite. Poor exposure in trench. Outcrop @ base of trench.	467589.52	7083744.00	788.13	467589.52	7083752.99	788.61
TR9822	0	11.00	12.00	MSCT			Intensely limonitic gouge(?) & SSCT & minor GSCT. Shear/contact (?)	467589.58	7083749.99	788.31	467589.56	7083750.99	788.41
TR9822	0	13.50	20.00	LMST,SKARN			Banded dark grey-black & white meta-limestone. Minor well mineralized siliceous skarn layers. @ 14.0-16.0m sericitic schist @ base of trench wall below LMST.	467589.53	7083752.49	788.56	467589.70	7083758.99	788.65

ID	Level	Survey from (m)	Survey to (m)	Lithology	Modifier(s)	Colour	Geology Memo	From Easting	From Northing	From Elevation	To Easting	To Northing	To Elevation
TR9822	0	20.00	27.00	MSCT	F		Detached layers. Intercalcated sericitic schist & dark grey weakly graphitic schist. Well foliated, fissile. mm wide layers. Detached breaks are flat lying to ~20 degrees North & are marked by narrow (1-3cm) gouge seams.	467589.70	7083758.99	788.65	467590.12	7083766.98	788.59
TR9822	0	27.00	32.00	SKARN			Pale to dark grey-green skarn.	467590.07	7083765.98	788.50	467590.33	7083770.97	788.95
TR9822	0	32.00	36.00	OVB			Unsorted till.	467590.33	7083770.97	788.95	467590.54	7083774.97	789.31
TR9822	0	36.00	56.00	OVB			Old Elsa Road, not trenched	467590.54	7083774.97	789.31	467589.63	7083794.93	789.45
TR9822	0	56.00	58.00	QTZT	Qe		Medium blue-grey variably phyllitic quartzite w/ fine (<1mm dia.) round dark grey quartz crystals. Finely banded. Beds several cms to 15 cm thick. Faulted contact striking 160 degrees.	467589.63	7083794.93	789.45	467589.49	7083796.93	788.61
TR9822	0	58.00	62.00	GSCT,QTZT	F		Strongly deformed detached block. Intercalated graphitic schist & thin layers (55mm thick) of grey quartzite w/ QTZ crystals.	467589.49	7083796.93	788.61	467589.21	7083800.92	788.65
TR9822	2	61.50	62.00	QTZT,LMST	C		silty limestone & limey quartzite layer.	467589.25	7083800.42	788.65	467589.21	7083800.92	788.65
TR9822	0	62.00	65.00	MSCT,QTZT	F		crushed and deformed mix of graphitic schist, sericitic schist & quartzite. Strongly limonitic.	467589.21	7083800.92	788.65	467588.93	7083804.91	788.69
TR9822	0	65.00	70.00	GSCT,QTZT	G,F		Intercalated graphitic schist & lesser graphitic foliated quartzite.	467589.00	7083803.91	788.68	467588.65	7083808.90	788.73
TR9822	2	69.50	70.00	LMST,QTZT,SKARN			Subcroppings & rubble @ base of trench of black silty Meta-LMST & calcareous quartzite. ~10% skarn w/ very fine diss. sulphides.	467588.69	7083808.40	788.73	467588.65	7083808.90	788.73
TR9822	0	70.00	74.00	MSCT,QTZT	F,Qs		Crushed mix of graphitic schist, sericitic schist & foliated quartzite. Characterized by flat lying limonitic, fractured & crushed narrow QTZ Vnlts/sweats. Top of limonitic zone marks a break in detachment.	467588.65	7083808.90	788.73	467588.58	7083812.90	788.69
TR9822	0	74.00	90.00	GSCT,QTZT	F,G		Intercalcated graphitic schist & graphitic phyllitic QTZT. @ 79.0-85m slightly less graphitic. Rock is still deformed, ie. folded.	467588.58	7083812.90	788.69	467587.92	7083826.88	789.11
TR9823	0	0.00	7.00	LMST,SK			Pale grey & buff meta-limestone (marble) & pale grey-green slightly skarned limestone. Finely banded. Subcroppings @ base of trench wall.	467786.39	7083728.52	0.00	467786.81	7083736.50	0.00
TR9823	0	7.00	13.00	SKARN,GSCT			Intercalated sericitic to graphitic schist. Subcroppings @ base of trench wall.	467786.78	7083735.50	0.00	467786.95	7083740.50	0.00
TR9823	0	13.00	14.00	OVB				467786.97	7083741.60	0.00	467787.02	7083743.80	0.00
TR9824	0	0.00	35.00	QTZT,GSCT	G,F	gy	Dark grey to black strongly graphitic striped quartzite composed of white quartz layers with graphitic envelopes. Typically well foliated. Intercalations of graphitic schist and blocky pale to medium grey quartzite. Blocky layers range from ~10cm to 30cm wide. Structurally deformed. Foliation is highly variable. Kink folds common.	467393.93	7083908.80	788.46	467393.51	7083944.79	787.10
TR9824	0	35.00	39.00	SKARN		gn-gy	Pale to medium green-grey skarn. Moderate chl, cal & Po. Locally silliceous. mm's wide bands. Upper half of skarn block has an apparent displacement of 3m south. Minor interbedded sericitic schist.	467393.49	7083943.79	787.16	467393.58	7083948.79	786.86
TR9824	0	39.00	45.00	LMST		gy	Dark grey, locally banded meta-limestone. Upper half of unit displaced 3m south.	467393.56	7083947.79	786.92	467393.68	7083954.79	786.50
TR9824	0	45.00	65.00	QTZT,GSCT	G,F	gy	Dark grey graphitic striped quartzite and intercalated graphitic schist. Graphitic content often variable, locally sericite > graphite. Unit characterized by numerous kink & open folds. Sparse, narrow rusty horizons. Sheared contact.	467393.66	7083953.79	786.56	467392.64	7083974.69	784.66
TR9824	0	65.00	69.00	QTZT	Tb	gy bl	Pale grey to grey-blue blocky quartzite. Bands typically 10cm wide but range up to 30cm. Quartz boudins/sweats. Unit becomes dark grey at northern contact (sheared).	467392.80	7083973.70	784.80	467392.01	7083978.64	784.10
TR9824	0	69.00	93.00	GSCT,QTZT	F,G	gy	Dominantly foliated striped quartzite with weak to moderate graphite. Locally sericite > graphite. Rusty orange weathering on joint surfaces. Lesser intercalations of graphitic schist. Overall unit is still graphitic but less so than 0-35m. Ubiquitous fractured bull white and limonitic quartz sweats.	467392.17	7083977.65	784.24	467391.60	7084002.52	782 02
TR9824	0	93.00	94.00	OVB			Bedrock drops off. Same clay layer as in TR98-10.	467391.55	7084001.52	782.08	467391.60	7084002.52	782 02

ID	Level	Survey from (m)	Survey to (m)	Geology Lithology	Modifier(s)	Colour	Memo	From Easting	From Northing	From Elevation	To Easting	To Northing	To Elevation
TR9825	0	0.00	14.00	GSCT		bk	Black graphitic schist shear band. Crushed limonitic ribbon quartz. From 7-14m mineralized skarn, minor schist & lmst thrust over GSCT. Lmst + skarn overlies GSCT from 13.5-14m.	467489.79	7083904.63	790.47	467489.06	7083918.61	788.53
TR9825	0	14.00	24.00	SKARN		gn gy	Dominantly pale to medium green-grey skarn. Minor intercalated schist, mainly at start of interval. Lmst has been thrust over skarn in upper half of trench wall.	467489.06	7083918.61	788.53	467488.19	7083928.57	788.31
TR9825	0	24.00	27.30	LMST		gy	Dark grey with mm's wide white bands. Lmst + schist +/- skarn comprises upper half of wall - detached block, strongly deformed.	467488.19	7083928.57	788.31	467487.63	7083932.53	788.15
TR9825	0	27.30	28.50	SKARN,SSCT		gn-gy gy	Lmst contact is weakly skarned. Green-grey skarn + pale grey meta-lmst are both well mineralized. Well foliated, rotten sericitic schist comprises ~50-70% of interval.	467487.73	7083931.83	788.18	467487.35	7083934.51	788.07
TR9825	0	28.50	65.50	QTZT,SSCT,GSCT	G,F	gy	Intercalated variably graphitic well foliated quartzite & sericitic schist. Lesser graphitic schist.	467487.56	7083933.02	788.13	467480.49	7083969.81	786.25
TR9825	0	65.50	99.00	QTZT	Tb	pl gy	Typically pale to medium grey blocky quartzite often with multidirectional buff white quartz vnlts/vns. Local phyllitic fabric. Minor intercalated schist.	467480.63	7083969.33	786.29	467473.49	7084003.06	784.43
TR9825	0	99.00	100.00	OVB			Light brown clay layer.	467473.68	7084002.08	784.48	467473.49	7084003.06	784.43
TR9826	0	0.00	7.00	SSCT,SKARN	F	pl gy	Unit largely comprised of pale grey weathering tan sericitic schist. Up to 20% intercalated dark grey poorly developed but mineralized skarn.	468973.77	7083795.41	0.00	468968.42	7083789.47	0.00
TR9826	0	7.00	16.00	LMST	F	gy	Foliated dark grey, sometimes banded meta-lmst. Contacts buried.	468969.09	7083790.21	0.00	468963.07	7083783.52	0.00
TR9826	0	16.00	24.00	SSCT,QTZT	F	bg, pl gy	Pale grey to beige sericitic schist. Strong sericite coating foliation planes. Minor intercalated foliated striped quartzite.	468963.07	7083783.52	0.00	468958.95	7083776.67	0.00
TR9826	0	24.00	29.00	SSCT,SKARN	F	bg, pl gy	Well foliated sericitic schist. Up to 10% poorly developed sparsely mineralized skarn.	468958.95	7083776.67	0.00	468957.29	7063770.90	0.00
TR9826	0	29.00	32.00	OVB			Frozen rubble.	468957.57	7083771.86	0.00	468956.74	7083768.98	0.00
TR9826	0	32.00	41.00	SSCT,SKARN	F	bg dk gy	Subequal proportions of well foliated sericitic schist & medium-dark grey mineralized skarn.	468956.74	7083768.98	0.00	468955.35	7083759.10	0.00
TR9826	0	41.00	43.00	LMST,SKARN	F	gy	Intercalated lmst (70%) & skarn (30%).	468955.46	7083760.09	0.00	468955.14	7083757.11	0.00
TR9826	0	43.00	49.00	SSCT,QTZT,SKARN	F	bg,gy	Intercalated beige to pale grey sericitic schist (~60%), foliated medium grey striped quartzite (40%) & green-grey & grey skarn (20%).	468955.25	7083758.10	0.00	468954.52	7083751.14	0.00
TR9826	0	49.00	52.80	SKARN		gn-gy	Medium green-grey skarn. Well mineralized.	468954.62	7083752.14	0.00	468954.24	7083747.15	0.00
TR9826	0	52.80	58.00	QTZT,SSCT,SKARN	F,C	gy	Intercalated foliated limey striped qtzt (45%), sericitic schist (40%) & poorly developed, sparsely mineralized skarn (15%). Qtzt is weakly mineralized.	468954.32	7083748.35	0.00	468953.96	7083743.16	0.00
TR9826	0	58.00	62.00	OVB				468953.96	7083743.16	0.00	468953.71	7083739.17	0.00
TR9826	0	62.00	63.00	SSCT,SKARN	F	bg-gn	Sericitic schist > well developed skarn.	468953.71	7083739.17	0.00	468953.61	7083737.17	0.00
TR9826	0	63.00	84.00	GSCT,QTZT	G,F	gy	Graphitic schist comprises ~70% of unit. Dark grey well foliated qtzt comprises the remainder. Ubiquitous limonitic qtz sweats.	468953.66	7083738.17	0.00	468951.00	7083717.35	0.00
TR9826	0	84.00	86.00	QTZT	Tb	pl gy	Blocky pale grey quartzite. Minor intercalated well foliated graphitic quartzite.	468951.00	7083717.35	0.00	468950.72	7083715.37	0.00
TR9826	0	86.00	98.00	GSCT,QTZT	G,F	gy	As 63-84m. Within detached block - klnk folds.	468950.72	7083715.37	0.00	468949.68	7083703.41	0.00
TR9826	0	98.00	123.00	OVB			Frozen. Dark brown clay.	468949.68	7083703.41	0.00	468948.77	7083677.43	0.00
TR9826	0	123.00	133.00	GSCT,QTZT	G,F	gy	Limonitic, fractured quartz sweats. Dark grey intercalated GSCT & graphitic foliated quartzite.	468948.80	7083678.43	0.00	468948.42	7083667.44	0.00
TR9826	0	133.00	137.00	LMST,SKARN,SSCT	F	gy,bg	Partly rubble, partly subcroppings.	468948.45	7083668.44	0.00	468948.28	7083663.44	0.00
TR9826	0	137.00	150.00	SKARN,QTZT,SSCT	C,F		Unit appears to be largely comprised of skarn & calcareous foliated quartzite. Minor intercalated sericitic schist.	468948.32	7083664.44	0.00	468947.90	7083651.45	0.00
TR9826	0	150.00	160.00	QTZT	C,F		Rubble of calcareous, foliated quartzite. Locally weakly skarned.	468947.90	7083651.45	0.00	468947.72	7083641.45	0.00
TR9826	0	160.00	174.00	OVB			Frozen. Dark brown clay.	468947.72	7083641.45	0.00	468947.06	7083627.47	0.00
TR9826	0	174.00	187.00	SKARN,QTZT,SSCT	C,F		Rubble. Variable amounts of skarn, limey quartzite & minor sericitic schist.	468947.06	7083627.47	0.00	468945.84	7083613.52	0.00

ID	Level	Survey from (m)	Survey to (m)	Geology Lithology	Modifier(s)	Colour	Memo	From Easting	From Northing	From Elevation	To Easting	To Northing	To Elevation
TR9826	0	187.00	211.00	SKARN,QTZT,LMST,SSCT	C,F		Subcroppings & rubble of dark grey limestone at 187--205m. Skarn rubble throughout. Lesser limey foliated quartzite & sericitic schist. Skarn mineralization increases from ~200-211m.	468945.93	7083614.52	0.00	468945.49	7083589.54	0.00
TR9826	0	211.00	214.00	LMST		gy	Subcroppings of dark grey meta-limestone.	468945.49	7083590.54	0.00	468945.49	7083587.54	0.00
TR9826	0	214.00	240.00	SKARN,QTZT	C,F	gn-gy	Mineralized skarn comprises ~70% of interval with calcareous, foliated quartzite comprising the remainder. Minor intercalate sericitic schist.	468945.49	7083587.54	0.00	468945.49	7083561.54	0.00
TR9826	1	234.00	234.50	LMST			Band of dark grey limestone subcropping in floor.	468945.49	7083567.54	0.00	468945.49	7083565.54	0.00
TR9826	0	240.00	257.00	SSCT,QTZT,SKARN		bg	Intercalated sericitic schist (50%), variably calcareous foliated quartzite (30%) & skarn (20%).	468945.49	7083561.54	0.00	468945.49	7083543.54	0.00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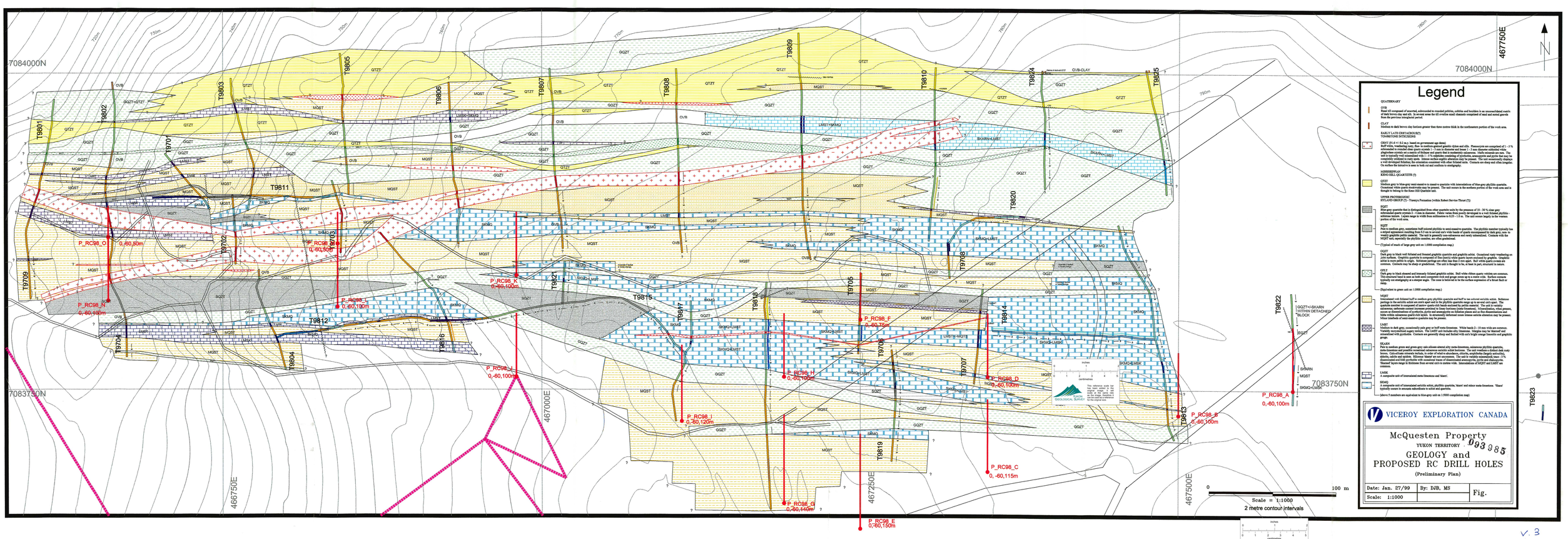
D8307
D8303
22 to 44m; 22m of 1769ppb
82 to 112m; 30m of 339ppb
4 to 30m; 24m of 1284ppb
34 to 48m; 12m of 420ppb
28 to 56m; 28m of 368ppb
124 to 142m; 18m of 1955ppb
12 to 37.3m; 25.3m of 1332ppb
106 to 114m; 8m of 1310ppb
208 to 242m; 34m of 176ppb
12 to 30m; 18m of 178ppb
156 to 168m; 12m of 328ppb
16 to 34m; 18m of 134ppb
0 to 38m; 38m of 286ppb
0 to 36m; 36m of 280ppb
84 to 92m; 8m of 884ppb
8 to 42m; 34m of 360ppb
116 to 134m; 18m of 299ppb
10 to 64m; 54m of 209ppb
100 to 116m; 18m of 124ppb
72 to 86m; 14m of 124ppb
4 to 16m; 12m of 615ppb
86 to 172m; 86m of 214ppb
54 to 102m; 48m of 184ppb
58 to 82m; 24m of 510ppb
28 to 36m; 8m of 375ppb
36 to 68m; 24m of 351ppb
84 to 100m; 30m of 983ppb inc 78 to 92m; 14m of 1926ppb
2 to 30m; 28m of 300ppb
12 to 70m; 58m of 392ppb
68 to 92m; 24m of 758ppb inc 74 to 92m; 18m of 182ppb
56 to 66m; 10m of 458ppb inc 62 to 66m; 2m of 1855ppb
16 to 18m; 2m of 1366ppb
22 to 170m; 148m of 328ppb, inc 146 to 156m; 10m of 1336ppb
8 to 88m; 80m of 783ppb, inc 8 to 48m; 40 m of 1030ppb
60 to 74m; 14m of 1045ppb
Note: 32 to 56m no trench
16 to 32m; 16m of 389ppb
2 to 14m; 12m of 348ppb
Legend
1997 and 1998 Trenching
D8101 1981 Diamond Drilling West Zone
D8307 1983 Diamond Drilling East Zone
RC9701 1997 RC Drilling West and East Zones
P_RC98_M 0,-60,50m Proposed RC Drill Hole Orientation, Dip, Length(m)
Note: All results greater than 3000 ppb Au been cut to 3000 ppb Au: All results quoted are in ppb Au. (as of Sept 20th 98)
0 100 m
Scale = 1:1000
2 metre contour intervals
VICEROY EXPLORATION CANADA
McQuesten Property
YUKON TERRITORY
PROPOSED RC DRILL HOLES SECTION LOCATIONS & PREVIOUS DRILLING
(Preliminary Plan)
Date: Jan. 27/99
By: DJB, MS
Scale: 1:1000
Fig.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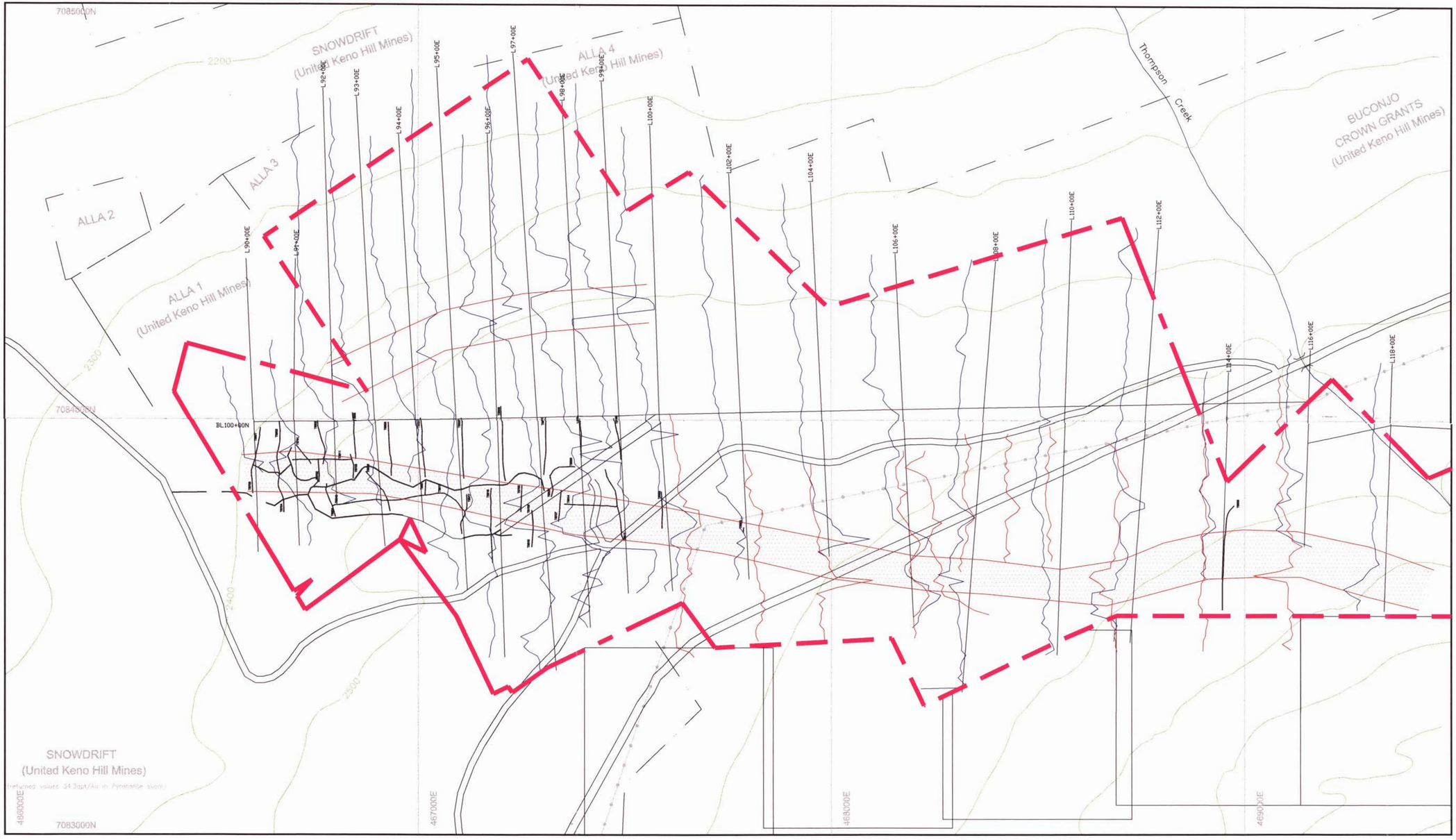
RC9701
D8305
D8304
D8301
D8302
D8306
D8307
D8303
Legend
QUATERNARY
OVB
Basal till composed of unsorted, subrounded to rounded pebbles, cobbles and boulders in an unconsolidated matrix of dark brown clay and silt. In several areas the till overlies small diamonic comprised of sand and normal gravels from the previous interglacial period.
CLAY
Medium to dark brown clay horizon greater than three metres thick in the northeastern portion of the work area.
EARLY LATE CRETACEOUS(?) TOMBSTONE INTRUSIONS
GRST (91.4 +/- 0.2 m.y.; based on government age dates)
Buff white, weathering rusty, fine to medium grained granitic dykes and sills. Phenocrysts are comprised of 1 - 3 % subrounded to rounded clear quartz crystals 1 - 3 mm in diameter and lesser 1 - 2 mm diameter subhedral to euhedral pink potassium feldspar crystals. Biotite is rare and occurs as 1 - 2 mm diameter subhedral books. The unit is typically very mineralized with 1 - 3 % sulphides consisting of pyrrhotite, arsenopyrite and pyrite that may be completely oxidized to rusty spots. Intense surface argillic alteration may be present. The unit occasionally displays a weak foliation. Contacts are generally sharp and finished with fine textured knife. Contacts are sharp and often irregular. On surface the intrusive is seen to both cut and confirm to stratigraphy.
MISSISSIPPIAN
KENO HILL QUARTZITE (?)
QTZT
Orange-grey to blue-grey sand recursive to massive quartzite with intercalations of blue-grey phyllitic quartzite. Occasional white quartz pebble conglomerate may be present. The unit occurs in the northern portion of the work area and is thought to belong to the Keno Hill Quartzite unit.
UPPER PROTEROZOIC
SYLVESTER GROUP (?) - Yusezyu Formation (within Robert Service Thrust (?))
SQZT
Blue-grey quartzite that is distinguished from other quartzite units by the presence of 10 - 30 % clear grey, subrounded quartz crystals 2 - 4 mm in diameter. Fabric varies from poorly developed to a well foliated phyllitic - schistose texture. Layers range in width from millimetres to 0.25 - 1.0 m. The unit occurs largely in the western portion of the work area.
SQZT
Pale to medium grey, sometimes buff stained phyllitic to semi-massive quartzite. The phyllitic member typically has a well developed foliation defined by 1 - 2 % fine grained sericite and chlorite. Interbedded with the quartzite are weakly graphitic phyllitic intervals. The unit is generally non-calcareous and rarely mineralized. Contacts with the MQST unit, especially the phyllitic member, are often gradational.
(Typical of much of large grey unit on 1:2000 compilation map.)
GQZT
Dark grey to black well foliated and fractured graphitic quartzite and graphitic schist. Occasional rusty weathering on fracture surfaces. Graphitic quartzite is composed of fine (sericite and graphite layers enclosed by graphite. Graphitic schist is more pelitic in origin. Foliation parallels or offers less than 2 mm apart. Buff white quartz eyeses are common. Contacts may be sharp or gradational. The unit is thought to be, at least in part, structural in nature.
GSLT
Dark grey to black sheared and intensely foliated graphitic schist. Buff white ribbon quartz veinlets are common. Unmineralized band is seen in both semi-competent rock and gouge seems up to a metre wide. Surface contacts typically cut unsharply at a steeper angle. The zone is believed to be the surface expression of a thrust fault or shear.
(Equivalent to green unit on 1:2000 compilation map.)
MQST
Interrupted well foliated buff to medium grey phyllitic quartzite and buff to tan sericite-carbonate schist. Schistose units are typically more competent than the phyllitic quartzite and are characterized by a massive fabric. The phyllitic quartzite member is composed of sericite and chlorite with lesser amounts of fine grained quartz and carbonate material. The unit is variably calcareous, carbonate content increases proximal to limey horizons (meta-limestone). Mineralization, when present, consists of disseminated and fracture controlled arsenopyrite, pyrite and galena. Quartz veins are common and are fine dissemination and blebs within calcareous quartzite beds/layers. Is extremely deformed zones limonite sericite alteration may be present. Minor interbeds of semi-massive quartzite may be present.
LMST
Medium to dark grey, occasionally pale grey or buff meta-limestone. White bands 2 - 10 cm wide are common. Variably recrystallized to sucrose. The LMST unit includes silty limestone, which may be laminated and mineralized with pyrrhotite. Contacts are generally sharp and finished with cm's bright orange limonite and graphitic gouge.
SKARN
Dark brown green and green-grey calc-silicate altered silty meta-limestone, calcareous phyllitic quartzite, meta-limestone and possible associated calcareous sericite schist horizons. The unit weathers a distinct dark rusty brown. Calcsilicate minerals include, in order of relative abundance, chlorite, amphiboles (largely actinolite), diopside, calcite and epidote. Siliceous 'skarns' are not uncommon. The unit is variably mineralized to trace - 1 % disseminated and blebs pyrrhotite with occasional traces of disseminated arsenopyrite, pyrite and chalcopyrite. Quartz-calcite veins range in thickness from cm-scale veins to massive veins. Interrelations of MQST and LMST are common.
LMSK
A composite unit of interstratied meta-limestone and 'skarn'.
SKMQ
A composite unit of interstratied sericitic schist, phyllitic quartzite, 'skarn' and minor meta-limestone. 'Skarn' typically occurs in amounts subordinate to schist and quartzite.
(above 5 members are equivalent to blue-grey unit on 1:5000 compilation map)
VICEROY EXPLORATION CANADA
McQuesten Property
YUKON TERRITORY
093985
GEOLOGY and PROPOSED RC DRILL HOLES
(Preliminary Plan)
Date: Jan. 27/99
By: DJB, MS
Scale: 1:1000
Fig.
0 100 m
Scale = 1:1000
2 metre contour intervals
This reference scale has been added to the original image. It will change with the scale of the image, therefore it is not applicable to the original size.
YUKON GEOLOGICAL SURVEY

v. 3



Flux Gate Mag (1998 Viceroy Survey)

Hemlo Mag Data

Trend Mag Anomaly
Correlated to Calc-Silicate
Alteration

0 093985 2/2 400 m

Scale = 1:5000

DIAND - YUKON REGION, LIBRARY

VICEROY EXPLORATION CANADA

McQuesten Property

YUKON TERRITORY

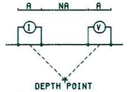
GROUND MAGNETOMETER MAP

Date: Jan. 99	By:	Fig.
Scale: 1:5000		

LINE : 9100 E

INDUCED POLARIZATION SURVEY

DIPOLE-DIPOLE ARRAY



N = 1, 2, 3, 4, ...
"A" SPACING = 25.0 METRES

VICEROY EXPLORATION

MCQUESTEN PROPERTY

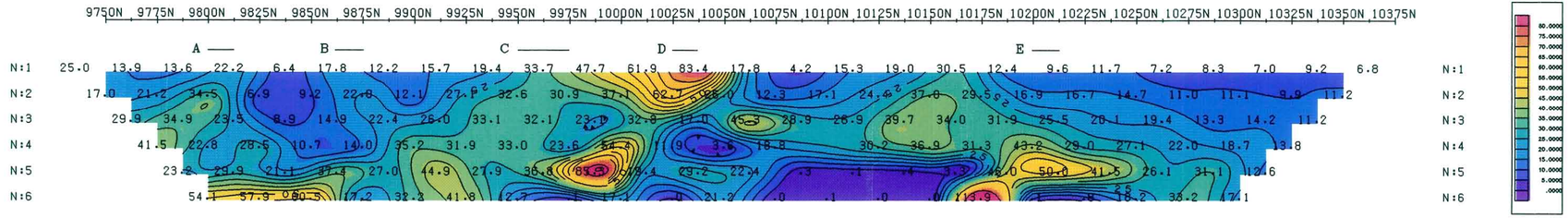
NTS 105M

DATE : 24 JUN 98 | REF : 98-12

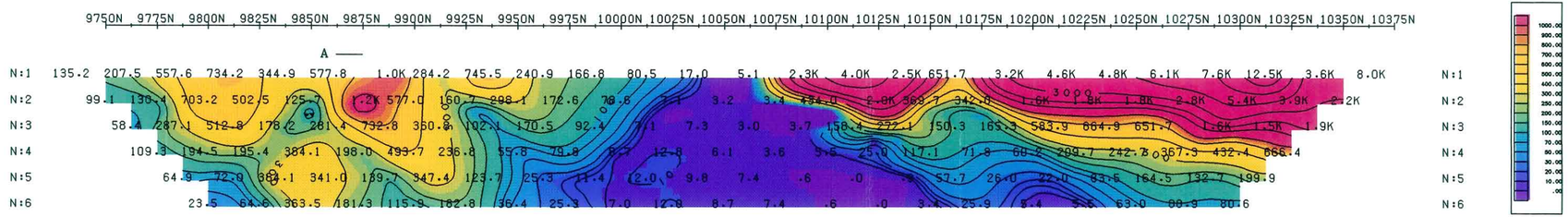
SCALE = 1: 2000

AMEROK GEOSCIENCES LTD.

Chargeability (mV/V)



Resistivity (ohm-m)



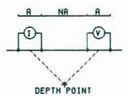
093985

v.2

LINE : 9300 E

INDUCED POLARIZATION SURVEY

DIPOLE-DIPOLE ARRAY



N = 1, 2, 3, 4, ...
"A" SPACING = 25.0 METRES

VICEROY EXPLORATION

MCQUESTEN PROPERTY

NTS 105M

DATE : 23 JUN 98 | REF : 98-12

SCALE = 1: 2000

AMEROK GEOSCIENCES LTD.

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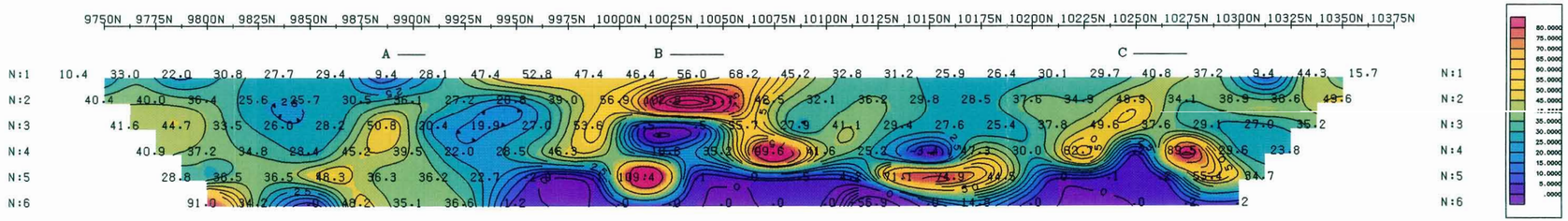

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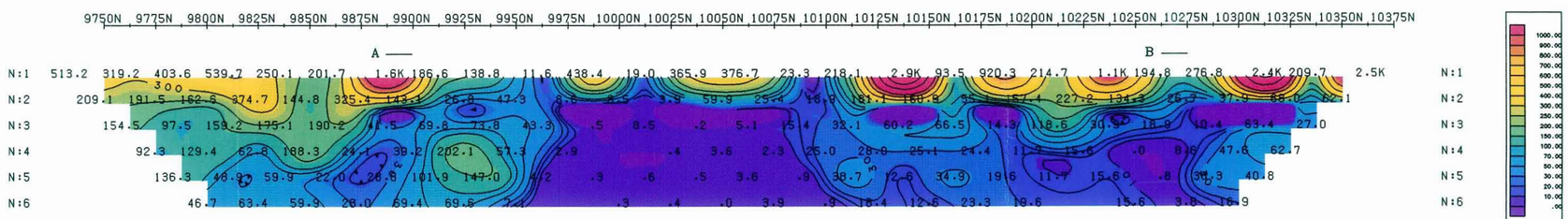
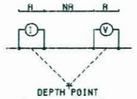


093985
v.2

LINE : 9500 E

INDUCED POLARIZATION SURVEY

DIPOLE-DIPOLE ARRAY



N = 1, 2, 3, 4, ...
"A" SPACING = 25.0 METRES

VICEROY EXPLORATION

MCQUESTEN PROPERTY

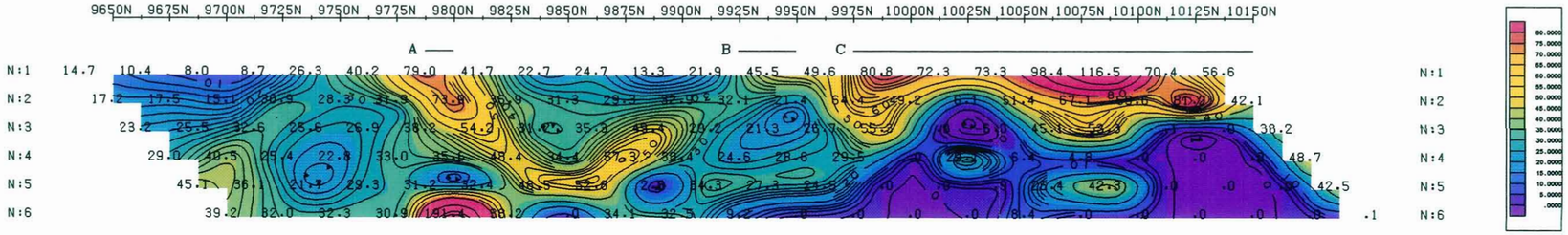
NTS 105M

DATE : 25 JUN 98 | REF : 98-12

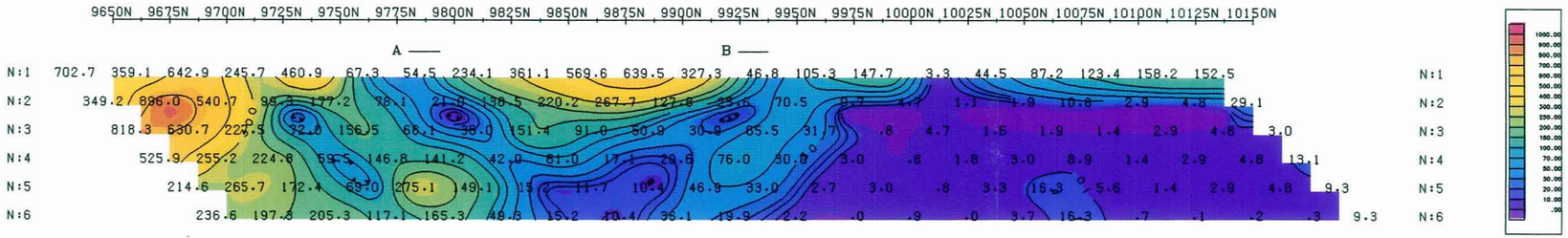
SCALE = 1: 2000

AMEROK GEOSCIENCES LTD.

Chargeability (mV/V)



Resistivity (ohm-m)

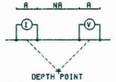


093985
V-2

LINE : 9700 E

INDUCED POLARIZATION SURVEY

DIPOLE-DIPOLE ARRAY



N = 1. 2. 3. 4. ...
"A" SPACING = 25.0 METRES

VICEROY EXPLORATION

MCQUESTEN PROPERTY

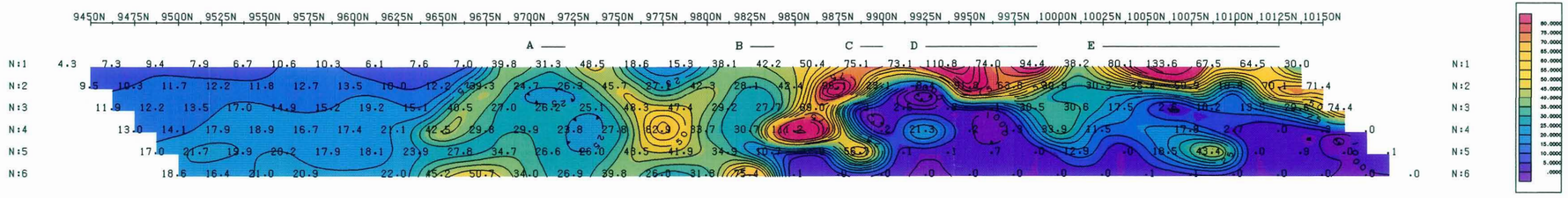
NTS 105M

DATE : 24 JUN 98 | REF : 98-12

SCALE = 1: 2000

AMEROK GEOSCIENCES LTD.

Chargeability (mV/V)



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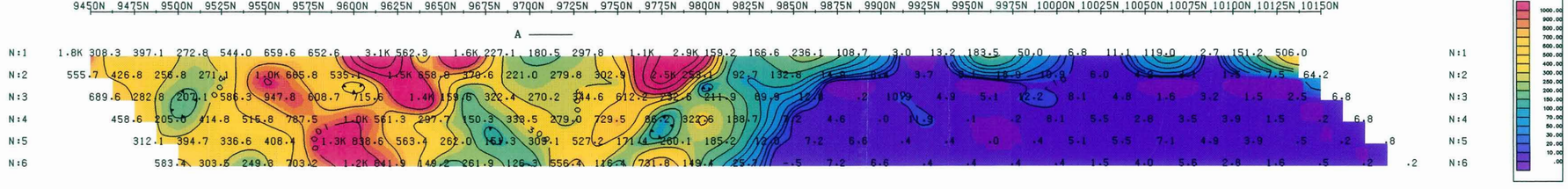
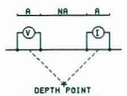


093985
v.2

LINE : 9700 N

INDUCED POLARIZATION SURVEY

DIPOLE-DIPOLE ARRAY



N = 1, 2, 3, 4, ...
"A" SPACING = 25.0 METRES

VICEROY EXPLORATION

MCQUESTEN PROPERTY

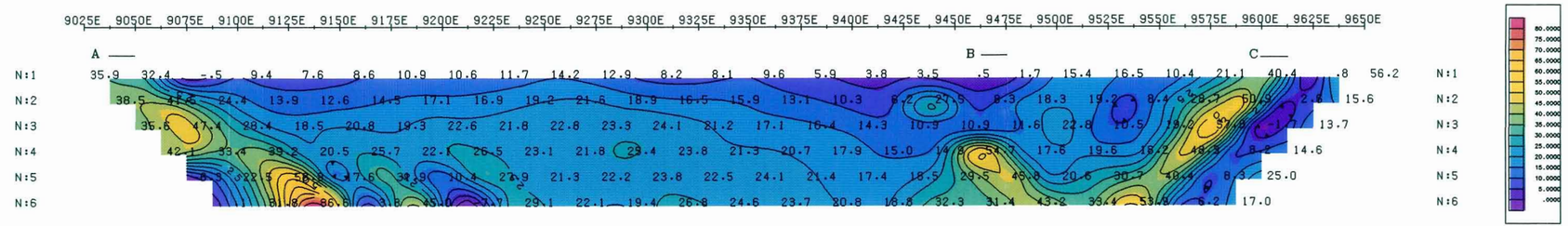
NTS 105M

DATE : 26 JUN 98 | REF : 98-12

SCALE = 1: 2000

AMEROK GEOSCIENCES LTD.

Chargeability (mV/V)



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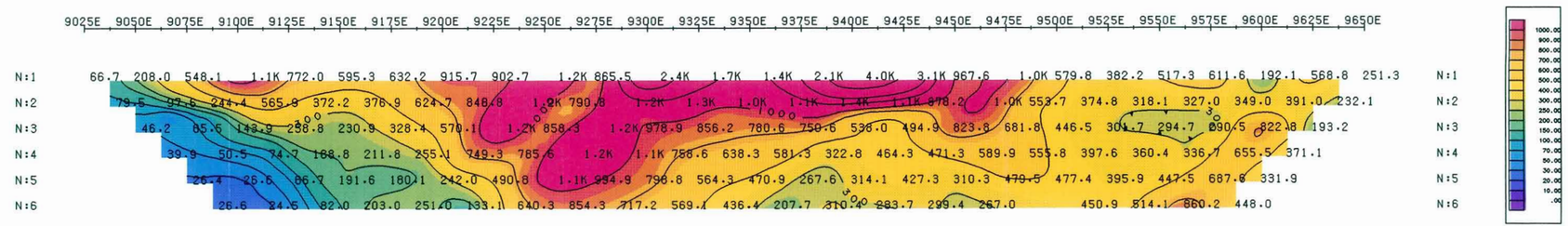
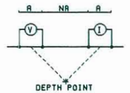


093985
v.2

LINE : 9800 N

INDUCED POLARIZATION SURVEY

DIPOLE-DIPOLE ARRAY



N = 1, 2, 3, 4, ...
"A" SPACING = 25.0 METRES

VICEROY EXPLORATION

MCQUESTEN PROPERTY

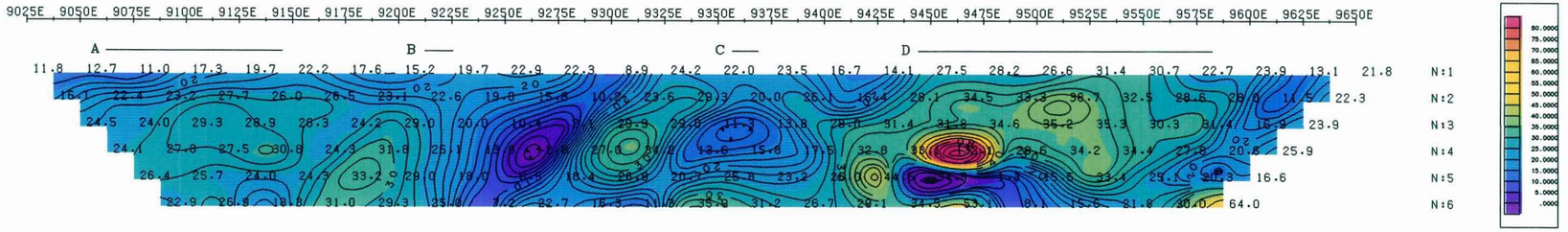
NTS 105M

DATE : 25 JUN 98 | REF : 98-12

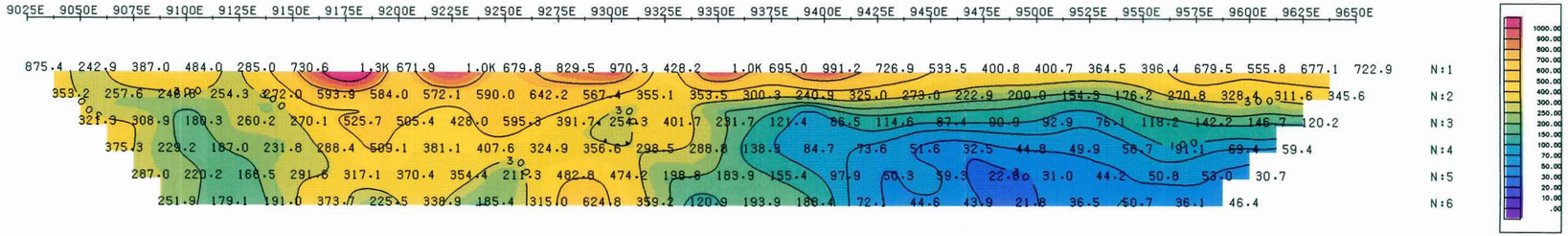
SCALE = 1: 2000

AMEROK GEOSCIENCES LTD.

Chargeability (mV/V)



Resistivity (ohm-m)

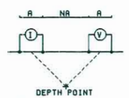


093985
V.2

LINE : 9900 E

INDUCED POLARIZATION SURVEY

DIPOLE-DIPOLE ARRAY



N = 1, 2, 3, 4, ...
"A" SPACING = 25.0 METRES

VICEROY EXPLORATION

MCQUESTEN PROPERTY

NTS 105M

DATE : 27 JUN 98 | REF : 98-12

SCALE = 1: 2000

AMEROK GEOSCIENCES LTD.

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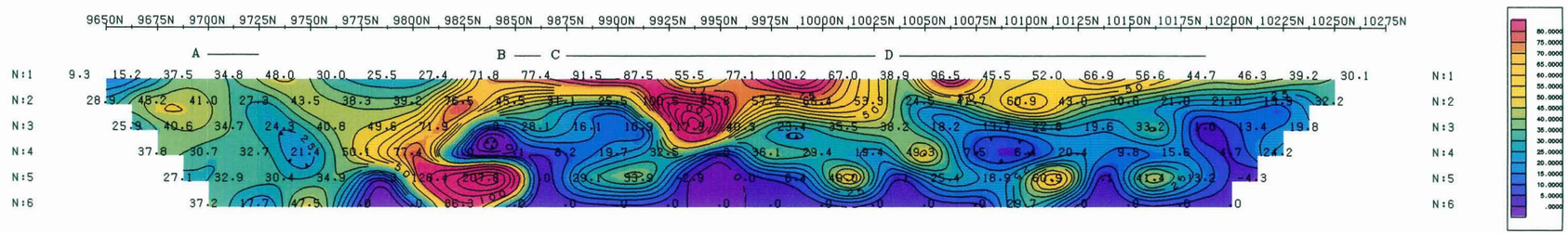

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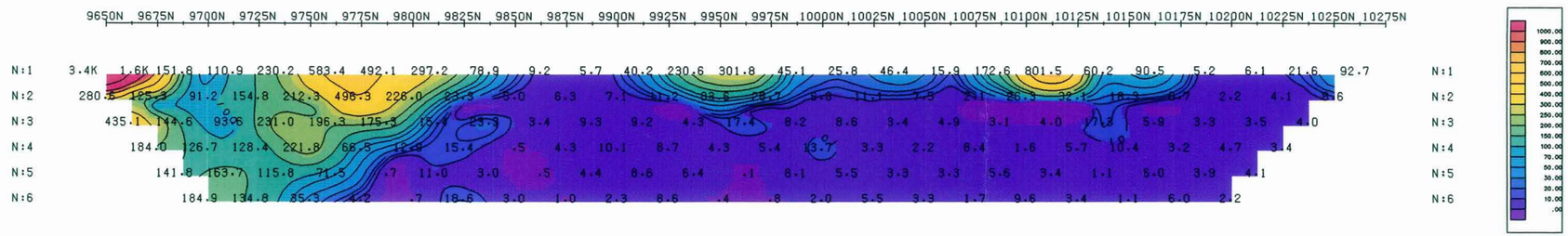
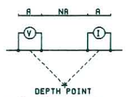


093985
v.2

LINE : 9900 N

INDUCED POLARIZATION SURVEY

DIPOLE-DIPOLE ARRAY



N = 1, 2, 3, 4, ...
"A" SPACING = 25.0 METRES

VICEROY EXPLORATION

MCQUESTEN PROPERTY

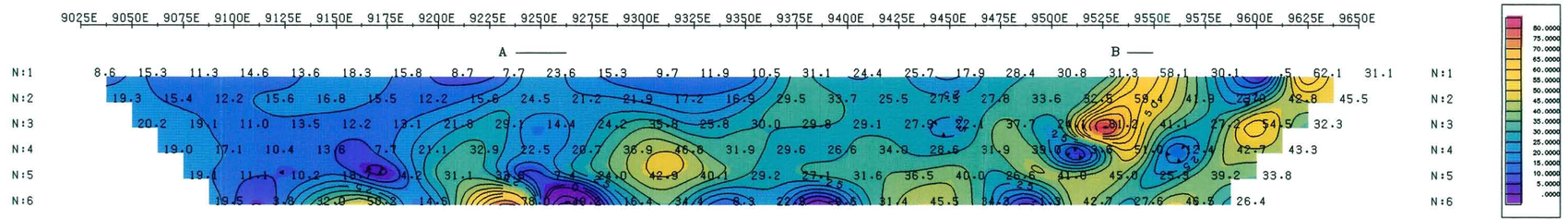
NTS 105M

DATE : 26 JUN 98 | REF : 98-12

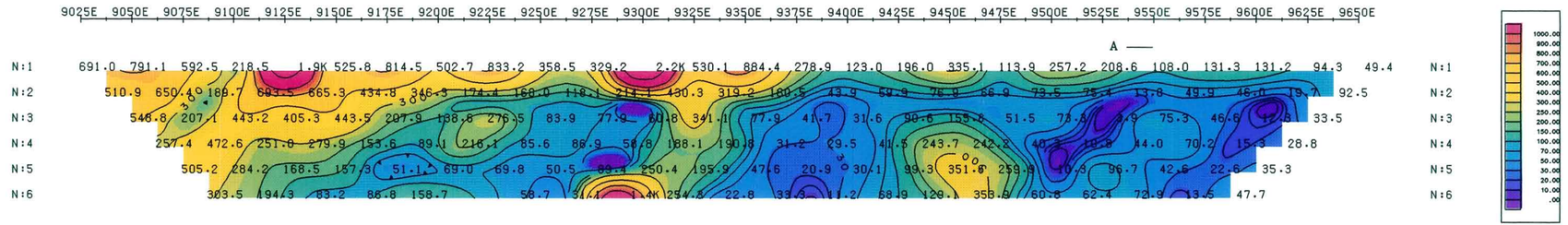
SCALE = 1: 2000

AMEROK GEOSCIENCES LTD.

Chargeability (mV/V)



Resistivity (ohm-m)



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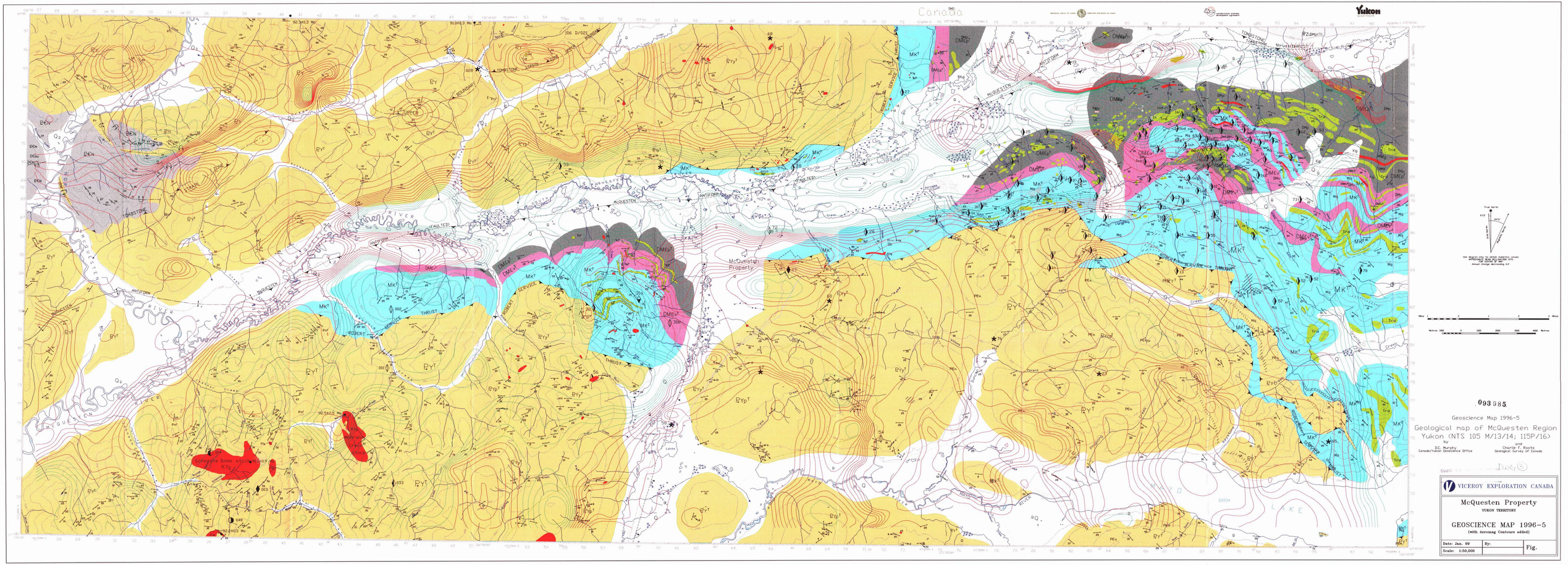
v.2


Canada
Yukon
McQuesten Property
McQUESTEN RIVER
ANTIFORM
THRUST
FAULTED
SERVICE
ROBERT
BOUNDARY
TOMBSTONE
TOMBSTONE TERRANE
TRAIL
ZONE
Creek
Lake
Scheelite Bone skarn
Mo-bearing granite
Mo-bearing granite
Mo-bearing granite

QUATERNARY

Q — Undifferentiated unconsolidated gravels,sands and clays

EARLY LATE CRETACEOUS

TOMBSTONE INTRUSIONS

KTg — Dykes and sills of fine–grained, locally porphyritic, locally clay– and carbonate–altered aplite and granite

UPPER PROTEROZOIC

HYLAND GROUP [2]

PЄN — Narchilla Formation[3] (?): maroon and green phyllite with cm–scale grey–green siltstone laminations, grey to green medium– to thick–bedded meta–sandstone and pebbly meta–sandstone (grit), and sandy limestone

PЄNc — Sandy limestone and limestone–breccia–rich member

PYᵀ — Yusezyu Formation [2,3] : medium brown, foliated and lineated muscovite–chlorite phyllite, quartzofeldspathic and micaceous psammite and rare calcsilicate rock and marble (diagonal ruling).
PYcpᵀ : carbonaceous phyllite member

TkdᵀROBERT SERVICE THRUST

TRIASSIC

Trd — Foliation–concordant podiform to lenticular bodies of fine– to medium– grained green amphibole–chlorite–plagioclase [1]meta–diorite or meta–gabbro.[4]

MISSISSIPPIAN

KENO HILL QUARTZITE [5]

MKᵀ — Finely to coarsely foliated and lineated, light to dark grey, locally mottled vitreous quartzite, subordinate dark grey carbonaceous phyllite, and calcareous quartzite. Rare unit of green grey phyllite with mm–scale quartz augen of possible felsic metavolcanic origin and thin limestone shown with diagonal ruling.[6]

DMEvᵀ

DEVONO–MISSISSIPPIAN

DMEpᵀ EARN GROUP

DMEvᵀ — Foliated greenish white to green–grey, quartz–sericite–chlorite phyllite, locally with mm–scale quartz augen; inferred to be of felsic meta–volcanic origin. Subordinate carbonaceous phyllite.[7]

DMEpᵀ — Grey carbonaceous phyllite, siliceous carbonaceous meta–siltstone, rare calcareous greywacke.

TOMBSTONE THRUST

PALEOZOIC ?

PZu — Grey phyllite overlying Keno Hill quartzite in Davidson Range.[8]

RECOMMENDED CITATION

MURPHY, D.C. and ROOTS, C.F., 1996. Geological map of Keno Hill area, Central Yukon (105 M/14). Exploration and Geological Services Division, Indian and Northern Affairs Canada, Map 1996–1, scale–1: 50 000.

This map accompanies MURPHY, D.C. 1997. Geology of the McQuesten River region, northern McQuesten and Mayo map areas, Yukon (115 P/14,15,16 and 105 M/13,14). Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Bulletin 6.

Digital cartography and drafting by Will van Randen, Yukon Geology Program

Any revisions or additional geological information known to the user would be welcomed by the Yukon Geology Program.

Copies of this map, the accompanying report and YUKON MINFILE may be purchased from Geoscience Information and Sales, Exploration and Geological Services Division, Indian and Northern Affairs Canada, Room 102–300 Main St. Whitehorse, Yukon Y1A 2B5 Ph. 867–667–3264 Fax 867–667–3267.

Store the map in a dark area to prevent the colours from fading.

Map released August, 1997, subsequent revision dates are:

AGE CONSTRAINTS

1 K–Ar and U–Pb age determinations from similar nearby rocks are early Late Cretaceous suggesting that these rocks belong to the Tombstone Intrusions (Leech et al., 1964; Wanless et al, 1967; Stevens et al., 1981; Sinclair et al., 1980; U–Pb age determination by J. K. Mortensen and M.L. Bevier, University of British Columbia).

2 Hyland Group and Yusezyu Formation are defined by Gordey and Anderson (1993) based on work in Nahanni map area (105 I).

3 Yusezyu Formation is intruded by pre–kinematic intermediate to mafic bodies of unknown age that are too small to portray at the scale of mapping.

4 U–Pb zircon and baddelyite determination on similiar diorite sills in Tombstone Mountains of 232 +1.5/–1.2 Ma (Mortensen and Thompson, 1990).

5 Mississippian age is based on Visean–Namurian conodonts obtained from Keno Hill quartzite in Tombstone Mountains (Mortensen and Thompson, 10990; Orchard, 1991).

6 This unit may be an infold of DMEvᵀ from which Devonian and Mississippian U–Pb ages have been obtained. This unit is in similar structural position to unit hosting MARG VMS deposit in southern Nash Creek map area (YUKON MINFILE 106 D009).

7 Relatively imprecise Devonian and Mississippian U–Pb age determinations have been obtained from this unit in northeastern Mayo map area by M.L. Bevier and J.K Mortensen, University of British Columbia. This unit may correlate with the unit hosting the MARG VMS deposit– see also note 6.

8 This unit is intruded by pre–kinematic mafic sills equivalent to unit Trdᵀ and is therefore pre mid–Triassic. If the unit stratigraphically overlies the Keno Hill quartzite, then it is constrained to be Carboniferous– early Triassic in age.

SYMBOLS

Geological contact (defined, approximate, assumed and/or covered)

Fault or vein–fault, displacement unknown (defined, approximate, assumed and/or covered)

Thrust fault, teeth on hanging wall (defined, approximate, assumed and/or covered)

Limit of outcrop

Bedding (known upright, overturned, unknown) 34 23 17

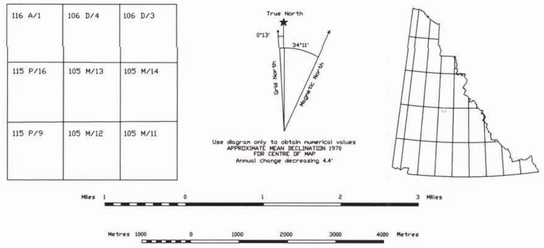
Foliation– (one tick indicates earliest phase of deformation, two or more indicates subsequent phase(s) of deformation) and mineral or clast–elongation lineation 23 17

Line of cross–section A A′

Apparent dip of measured bedding, foliation (in cross–section)

Foliation form lines in cross–section

Summer roads



CONTOUR INTERVAL 100 FEET
Elevations in Feet above Mean Sea Level
North American Datum 1985
Transverse Mercator Projection

ONE THOUSAND METRE
Universal Transverse Mercator Grid
ZONE 8

Topographic base produced by SURVEYS AND MAPPING BRANCH, DEPARTMENT OF ENERGY, MINES AND RESOURCES.

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MINFILE OCCURRENCES
YUKON MINFILE
105M 14

veins:

105 M/001a.	◊	Elsa	Ag–Pb
105 M/001a.	◊	Dixie	Ag–Pb
105 M/001c	◊	Coral and Wigwam	Ag–Pb
105 M/001d.	◊	Arctic and Mastiff	Ag–Pb
105 M/001e.	◊	Ruby	Ag–Pb
105 M/001f.	◊	No Cash	Ag–Pb
105 M/001g.	◊	Betty	Ag–Pb
105 M/001h.	◊	Hector	Ag–Pb
105 M/001i.	◊	Calumet	Ag–Pb
105 M/001j.	◊	Dragon	Ag–Pb
105 M/001k.	◊	Formo	Ag–Pb
105 M/001l.	◊	Galkeno–McLeod	Ag–Pb
105 M/001m.	◊	Galkeno–Sime/Sugiyama	Ag–Pb
105 M/001n.	◊	Eagle	Ag–Pb
105 M/001o.	◊	Fisher Creek	Ag–Pb
105 M/001p.	◊	Bluebird	Ag–Pb
105 M/001q.	◊	Tin Can	Ag–Pb
105 M/001r.	◊	Rico	Ag–Pb
105 M/001s.	◊	Duncan Creek	Ag–Pb
105 M/001t.	◊	Moth	Ag–Pb
105 M/001u.	◊	Onek	Ag–Pb
105 M/001v.	◊	Klondyke–Keno	Ag–Pb
105 M/001w.	◊	Sadie–Friendship	Ag–Pb
105 M/001x.	◊	Ladue	Ag–Pb
105 M/001y.	◊	Bellekeno	Ag–Pb
105 M/001aa.	◊	Kijo	Ag–Pb
105 M/001ab.	◊	Croesus No. 1	Ag–Pb
105 M/001ac.	◊	Black Cap and Shepherd	Ag–Pb
105 M/001ad.	◊	Lucky Queen	Ag–Pb
105 M/001ae.	◊	Lake	Ag–Pb
105 M/001af.	◊	Vanguard	Ag–Pb
105 M/001ag.	◊	Apex	Ag–Pb
105 M/001ah.	◊	Shamrock	Ag–Pb
105 M/001ai.	◊	Highlander	Ag–Pb
105 M/001aj.	◊	Cub and Bunny	Ag–Pb
105 M/001ak.	◊	Stone	Ag–Pb
105 M/001am.	◊	No. 6	Ag–Pb
105 M/001an.	◊	Porcupine–Kinman	Ag–Pb
105 M/001ao.	◊	No. 9	Ag–Pb
105 M/001ap.	◊	No. 1	Ag–Pb
105 M/001aq.	◊	Main fault and Nabob	Ag–Pb
105 M/001ar.	◊	Lake View	Ag–Pb
105 M/001as.	◊	Nabob No. 2	Ag–Pb
105 M/001at.	◊	Helen Fraction	Ag–Pb
105 M/001au.	◊	Gold Hill No. 2	Ag–Pb
105 M/001av.	◊	Fox	Ag–Pb
105 M/001aw.	◊	Alice	Ag–Pb
105 M/001ax.	◊	Caribou	Ag–Pb
105 M/001ay.	◊	Divide	Ag–Pb
105 M/001az.	◊	Devon	Ag–Pb
105 M/002.	◊	Faith	Ag–Pb
105 M/003.	◊	Duncan	Ag–Pb
105 M/004.	◊	Gold Queen	Ag–Pb
105 M/005.	◊	Silver Basin	Ag–Pb
105 M/006.	◊	Nabob	Ag–Pb
105 M/007.	◊	Monument	Ag–Pb
105 M/008.	◊	Comstock	Ag–Pb
105 M/009.	◊	Apex	Ag–Pb
105 M/010.	◊	Vanguard	Ag–Pb
105 M/011.	◊	Homestake	Ag–Pb
105 M/012.	◊	Christine	Ag–Pb
105 M/013.	◊	Mo	Ag–Pb
105 M/014.	◊	Mayburn	Ag–Pb
105 M/015.	◊	Hagan	Ag–Pb
105 M/016.	◊	Runer	Ag–Pb
105 M/017.	◊	Wernecke	Ag–Pb
105 M/018.	◊	Formo (different from 1k)	Ag–Pb
105 M/020.	◊	Paddy	Ag–Pb
105 M/021.	◊	Eagle	Ag–Pb
105 M/022.	◊	Fisher	Ag–Pb
105 M/024.	◊	Cream and Jean	Ag–Pb
105 M/025.	◊	Nord	Ag–Pb
105 M/046.	◊	Moon	Ag–Pb
105 M/050.	◊	Nero	Ag–Pb
105 M/052.	◊	Mt. Hinton	Ag–Pb
105 M/053.	◊	Avenue	Ag–Pb
105 M/055.	◊	Yono	Ag–Pb
105 M/061.	◊	Christal	Ag–Pb
105 M/062.	◊	Segsworth	Ag–Pb
105 M/063.	◊	Ironclad	Ag–Pb
105 M/069.	◊	Gambler	Ag–Pb
105 M/070.	◊	Havrenak	Ag–Pb
105 M/073.	◊	Bema	Ag–Pb

work targets:

105 M/019.	★	Nomad	unknown
105 M/023.	★	Parent	unknown
105 M/065.	★	Nadar	unknown
105 M/076.	★	Goldrock	unknown
105 M/078.	★	Feed	unknown

MINFILE OCCURRENCES
YUKON MINFILE
105M 13

Veins:

105 M/1a	◊	Husky SW	Ag, Pb, Zn
105 M/1b	◊	Silver King	Ag, Pb, Zn
105 M/26	◊	Gerlitzki	Ag, Pb, Zn
105 M/27	◊	Titan	Ag, Pb
105 M/28	◊	Shanghai	Ag, Pb, Zn
105 M/29	◊	Wayne	Ag, Pb, Zn, Au, W
105 M/31a	◊	Strebchuck	Sn, Ag,Pb,W
105 M/31b	◊	Joumbira	Pb, Ag, Sn, W
105 M/32	◊	Mount Haldane	Ag, Pb, Zn
105 M/33	◊	Laysier	Ag, Pb
105 M/54	◊	Chance	Sb
105 M/56	◊	Sundown	Ag, Pb
105 M/72	◊	Beley	Zn
106 D/21	◊	Rex	Ag, Pb, Zn, Sb

Skarns/replacement:

105 M/29	◊	Wayne	Au, W

Work targets:

105 M/30	★	Argent	unknown
105 M/58	★	Halfway	unknown
105 M/60	★	Newry (Aurex)	unknown
105 M/67	★	Corkery	unknown
105 M/68	★	Weasel	unknown

MINFILE OCCURRENCES
YUKON MINFILE
115P 16

Veins:

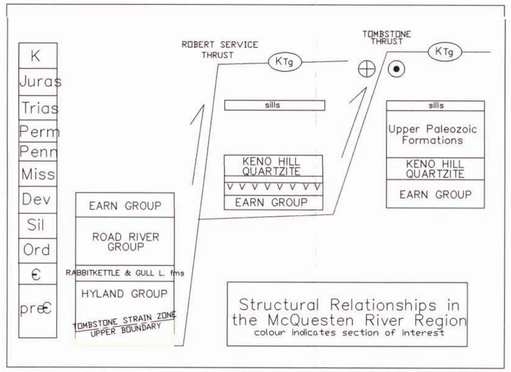
115P 001	◊	Jaybee	Pb–Zn–Ag vein
115P 002	◊	Seattle	Pb–Zn–Ag vein
115P 003	◆	Hawthorne	Au–Ag–Sb vein
115P 033	◆	Bennett	Au vein

Skarns/replacement:

115P 004	◐	Scheelite Dome	W skarn, intrusion–hosted Au vein
115P 048	◐	Potter	Sn skarn

Work targets:

115P 028	★	Secret	work target



Indian and Northern Affairs Canada
Exploration and Geological Services Division
Yukon Region

Aeromag Contours: nano teslas
Contour Levels:
Red: −80, −75, −70, −65, −60, −55, −50 −45, −40, −20, 0, 40, 80, 120, 160 200, 240, 280 and 320
Green: −320, −280, −240, −200, −160, −140 −120, −100, −95, −90 and −85

093 985

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Geoscience Map 1996-5

Geological map of McQuesten Region Yukon (NTS 105 M/13/14; 115P/16)

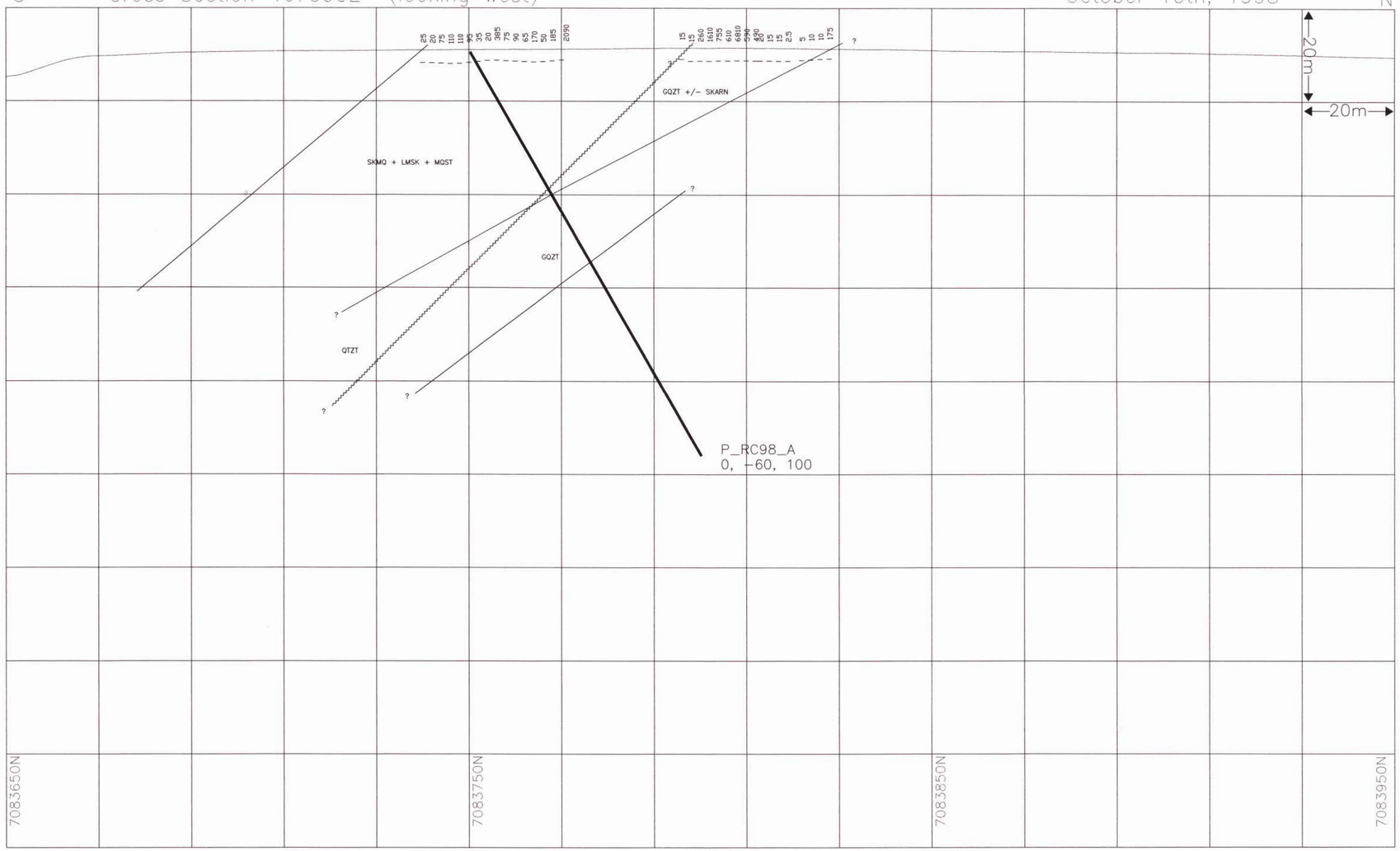
by
D.C. Murphy
Canada/Yukon Geoscience Office
and
Charlie F. Roots
Geological Survey of Canada

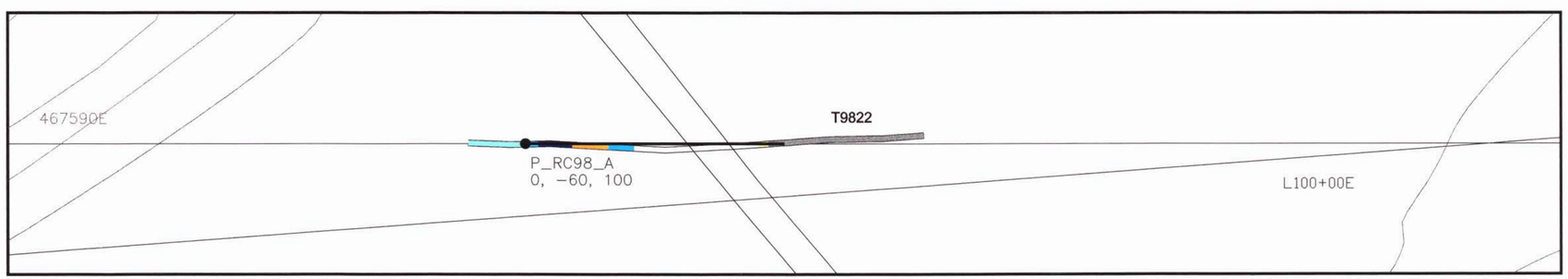
VICEROY EXPLORATION CANADA

McQuesten Property
YUKON TERRITORY
LEGEND FOR GEOSCIENCE MAP 1996–5
(with Aeromag Contours added)

Date: Jan. 99	By:	Fig.
Scale: 1:50,000		

S Cross Section 467590E (looking west) October 10th, 1998 N





0 40 m

Scale = 1:500

093985 Dwg (5)

VICEROY EXPLORATION CANADA

McQuesten Property

YUKON TERRITORY

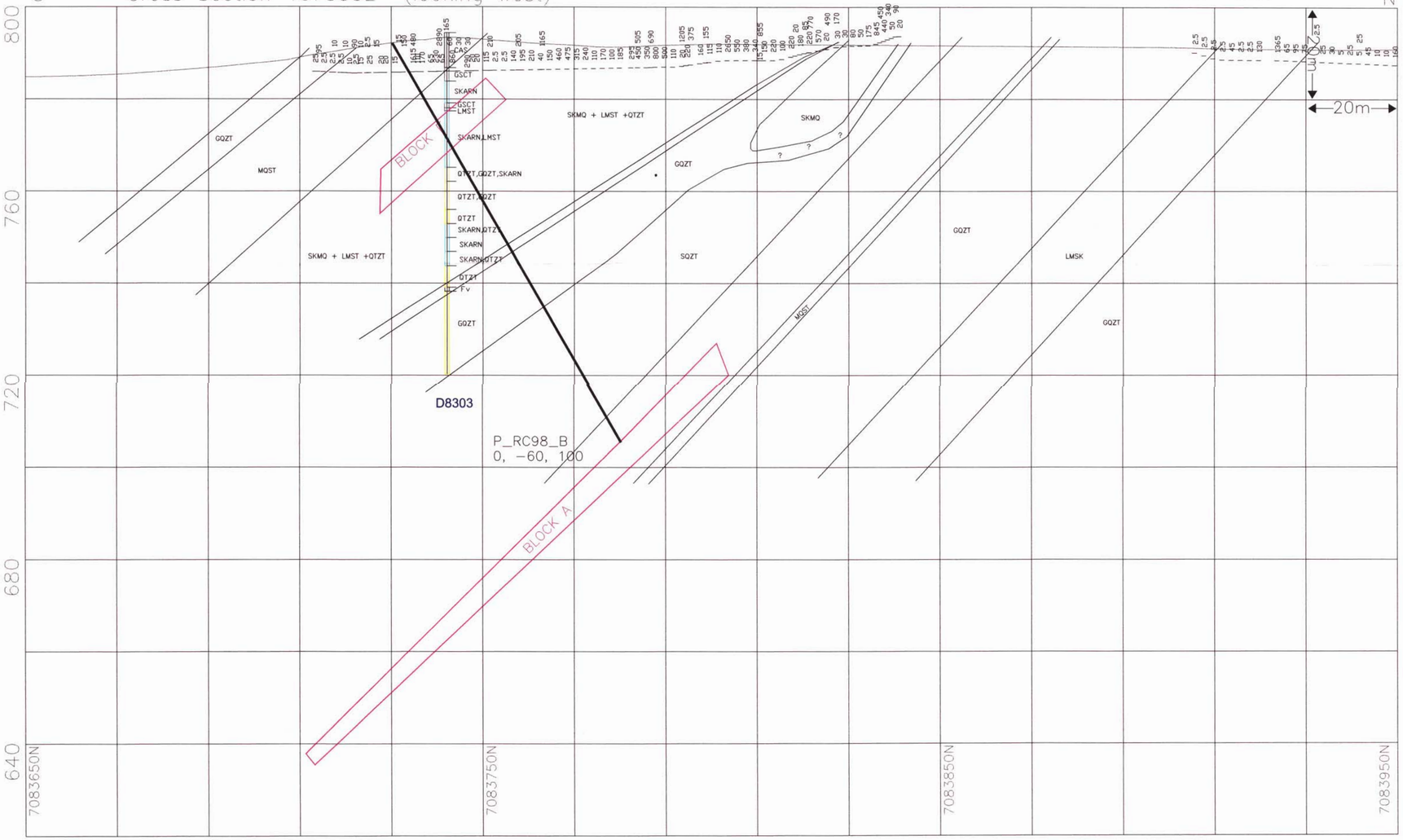
CROSS-SECTION

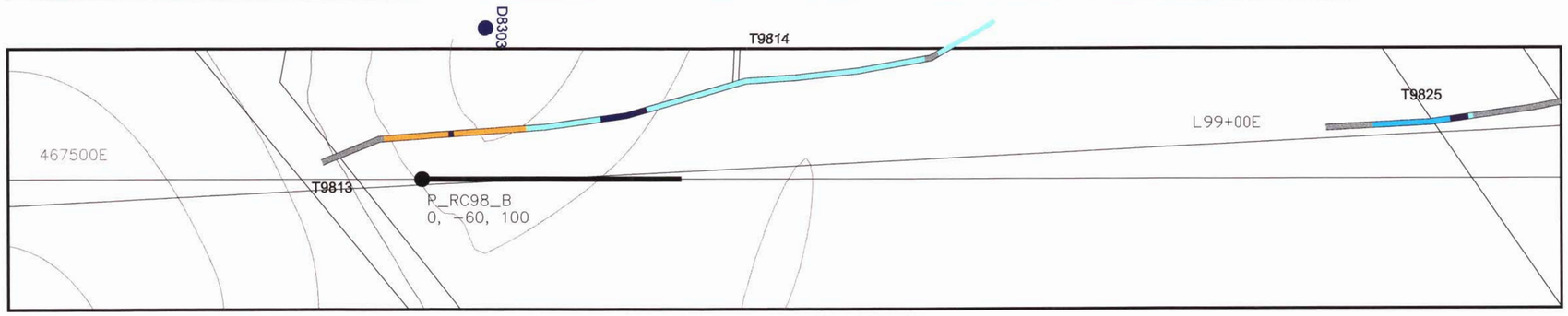
467590 E

(LOOKING WEST)

Date: Nov. 98	By:	Fig.
Scale: 1:500		

S Cross Section 467500E (looking west) October 10th, 1998 N





0 40 m

Scale = 1:500

093385 DWG 6

VICEROY EXPLORATION CANADA

McQuesten Property

YUKON TERRITORY

CROSS-SECTION
467500 E
(LOOKING WEST)

Date: Nov. 98	By:	Fig.
Scale: 1:500		

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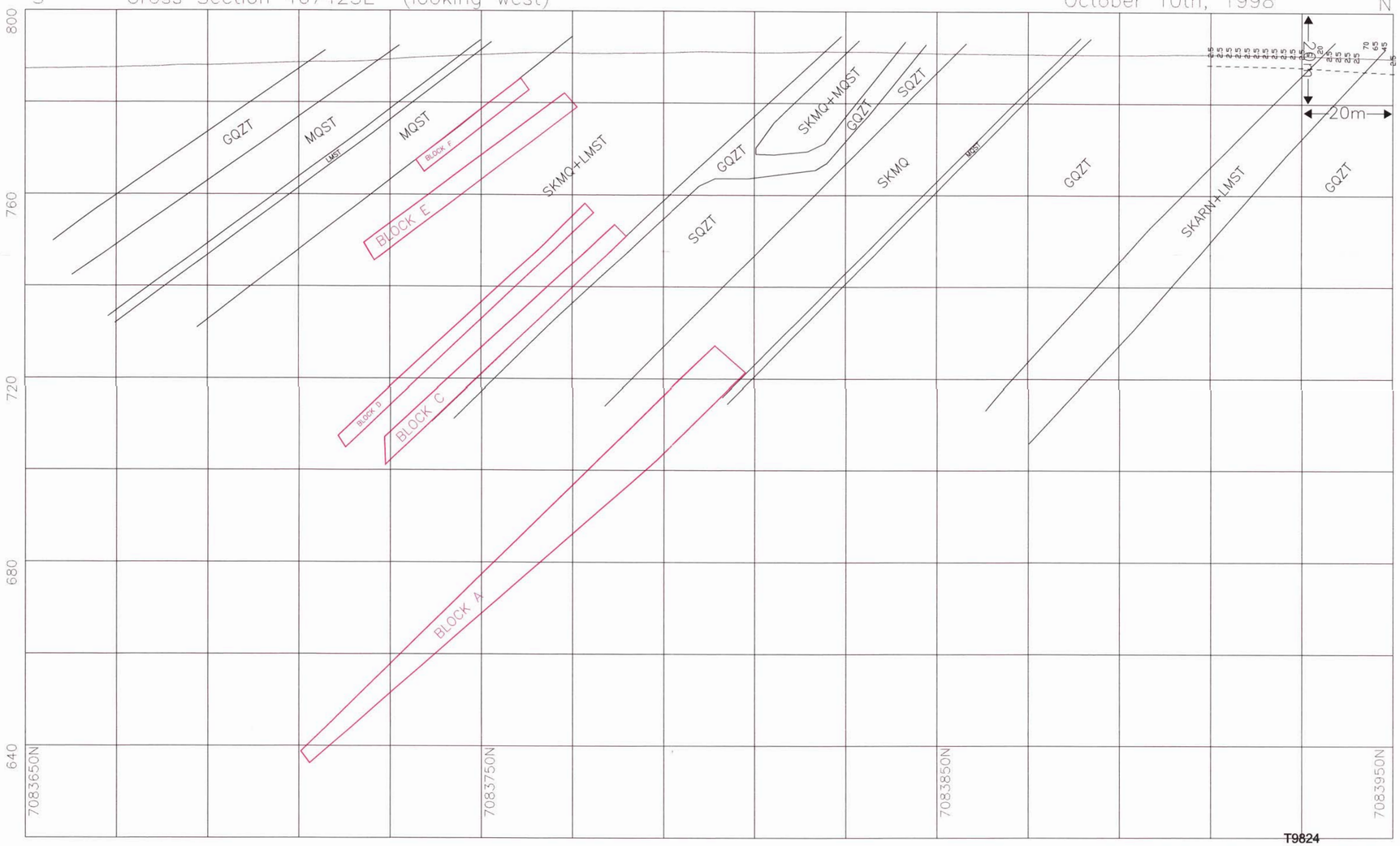
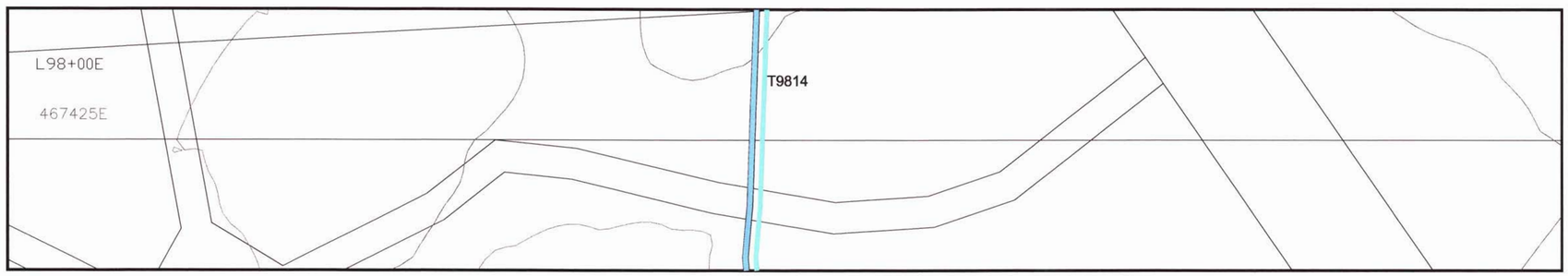
S Cross Section 467425E (looking west) October 10th, 1998 N





0 40 m

Scale = 1:500

093 985

VICEROY EXPLORATION CANADA

McQuesten Property
YUKON TERRITORY
CROSS-SECTION
467425 E
(LOOKING WEST)

Date: Nov. 98	By:	Fig.
Scale: 1:500		

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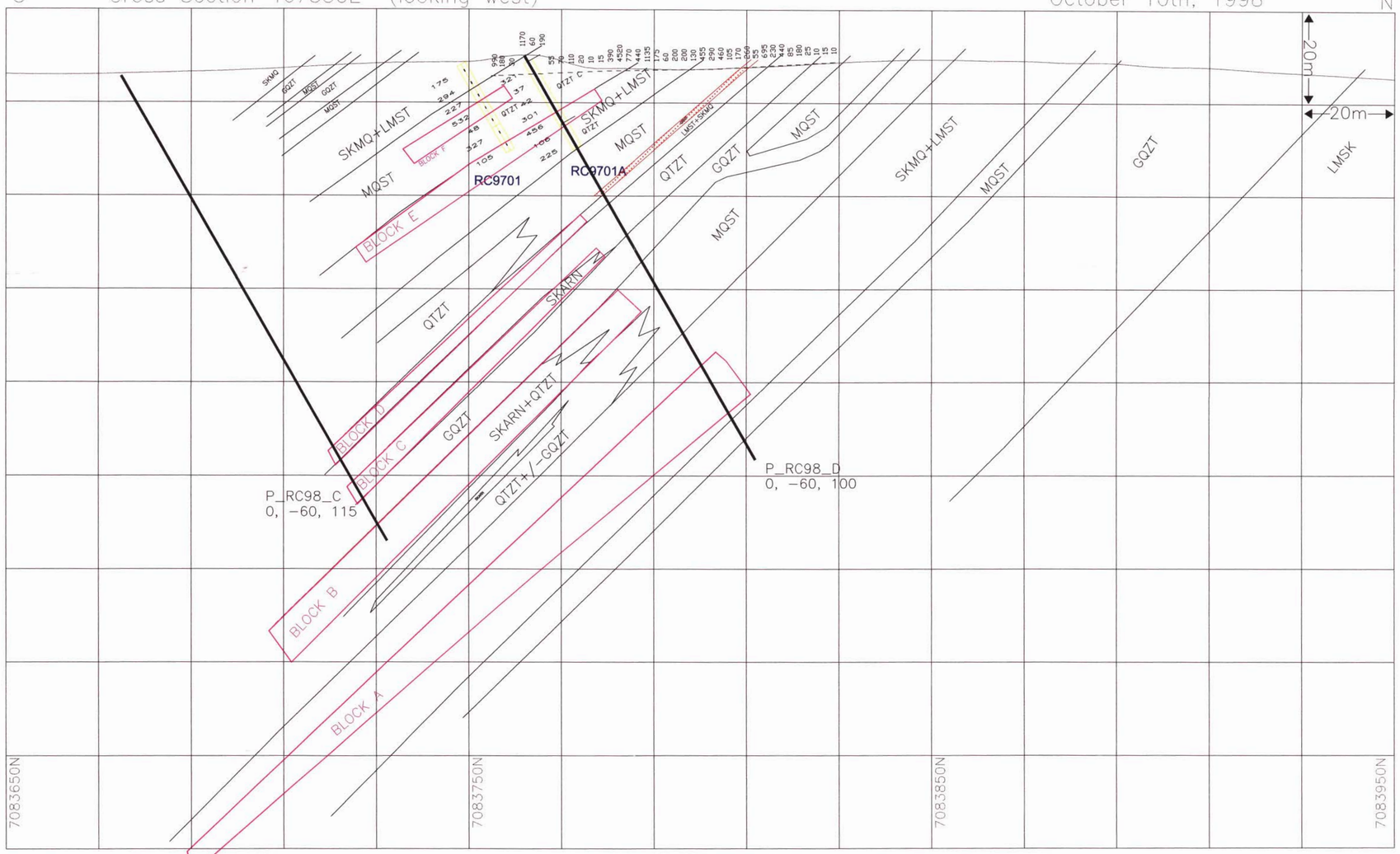
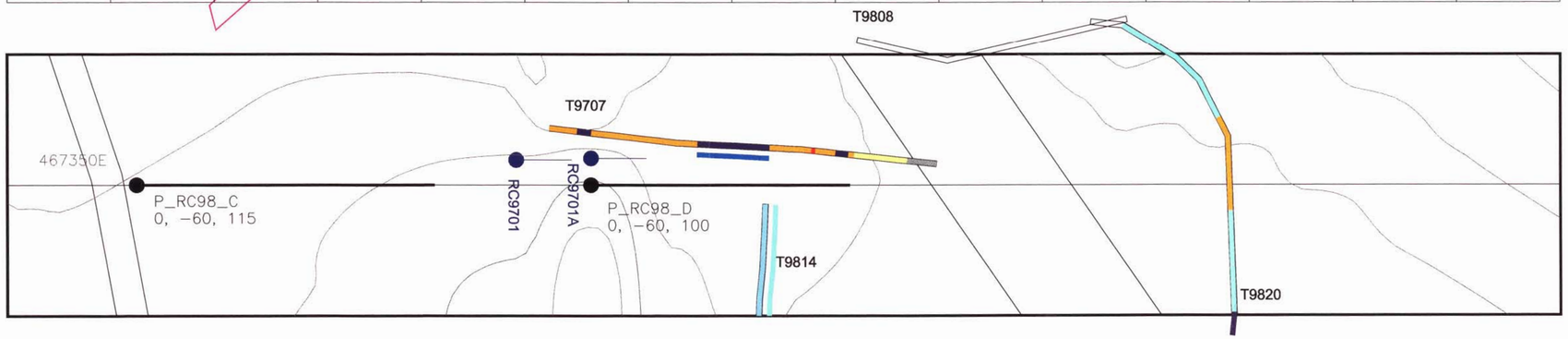
S Cross Section 467350E (looking west) October 10th, 1998 N





0 40 m

Scale = 1:500

093 985 Dig (8)
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VICEROY EXPLORATION CANADA

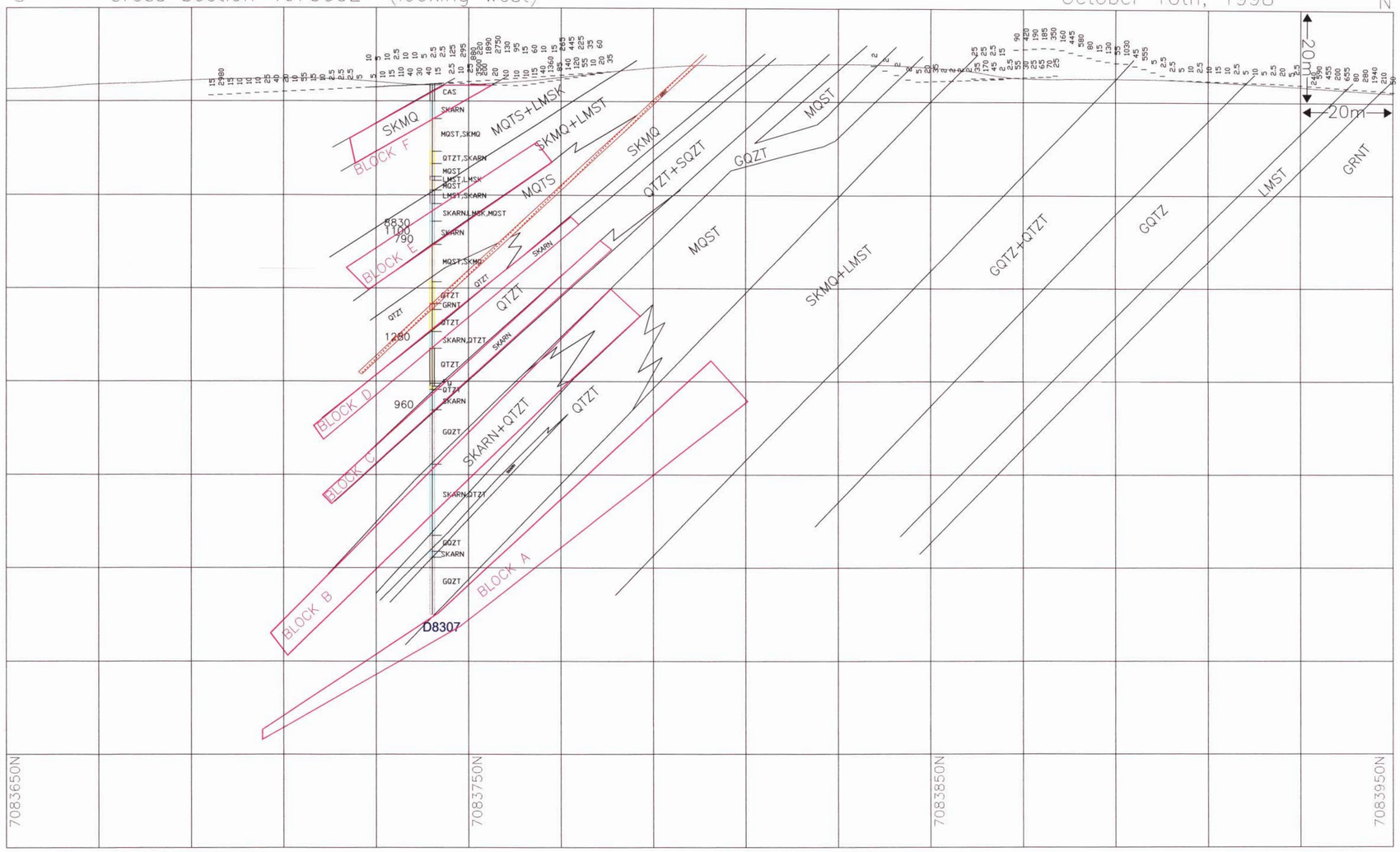
McQuesten Property

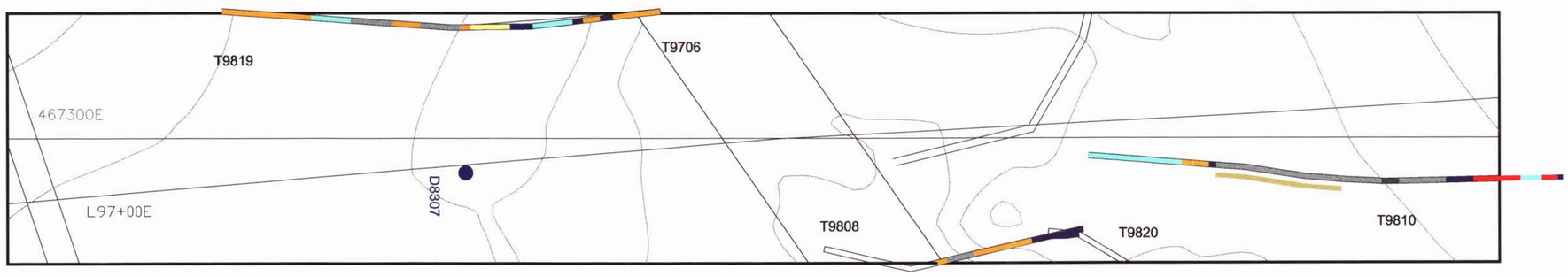
YUKON TERRITORY

CROSS-SECTION
467350 E
(LOOKING WEST)

Date: Nov. 98	By:	Fig.
Scale: 1:500		

S Cross Section 467300E (looking west) October 10th, 1998 N





0 40 m

Scale = 1:500

Dwg (9)

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VICEROY EXPLORATION CANADA

McQuesten Property

YUKON TERRITORY

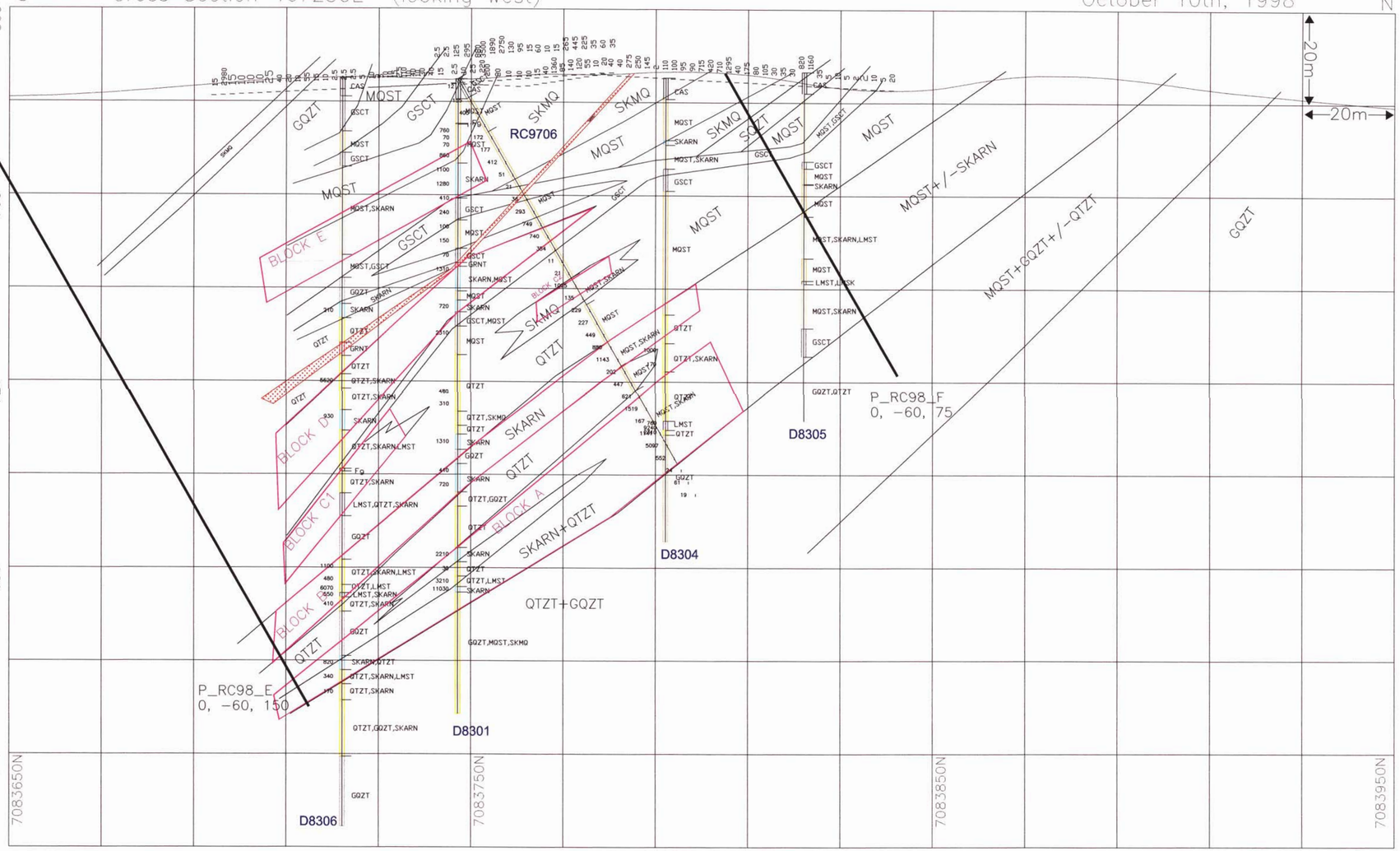
CROSS-SECTION

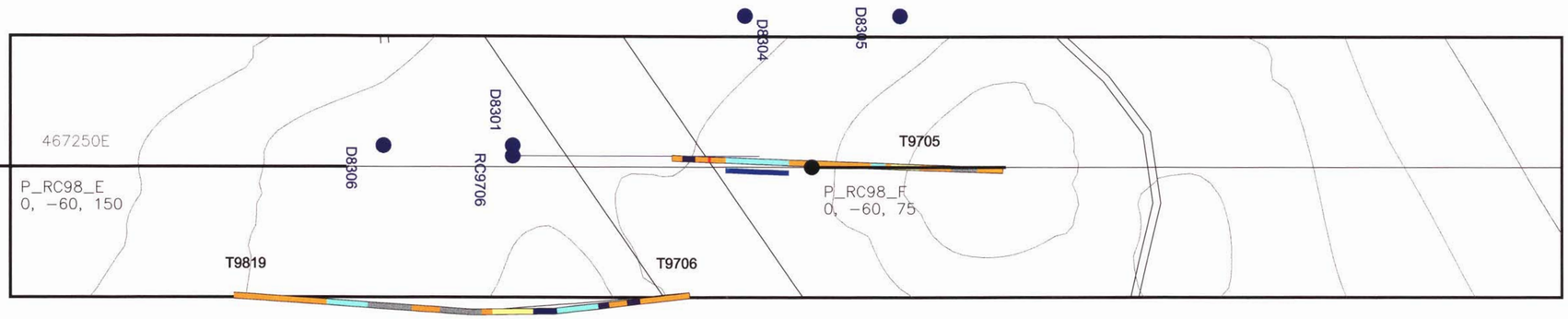
467300 E

(LOOKING WEST)

Date: Nov. 98	By:	Fig.
Scale: 1:500		

S Cross Section 467250E (looking west) October 10th, 1998 N





0 40 m

Scale = 1:500

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VICEROY EXPLORATION CANADA

McQuesten Property

YUKON TERRITORY

CROSS-SECTION
467250 E
(LOOKING WEST)

Date: Nov. 98	By:	Fig.
Scale: 1:500		

S Cross Section 467190E (looking west) October 10th, 1998 N

800
760
720
680
640

7083650N 7083750N 7083850N 7083950N

BLOCK E
BLOCK D
BLOCK C

GQZT MQST SKMQ SQZT GSCT MQST+SKMQ+LMST MQST+GQZT GRNT

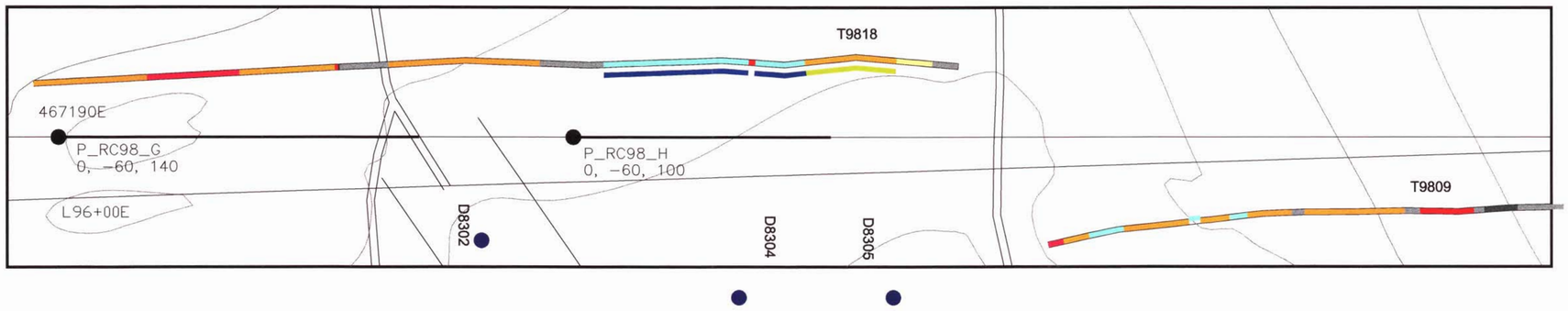
QTZT QTZT+SKARN

D8305 D8304 D8302

P_RC98_H
0, −60, 100

P_RC98_G
0, −60, 140

20m



0 40 m

Scale = 1:500

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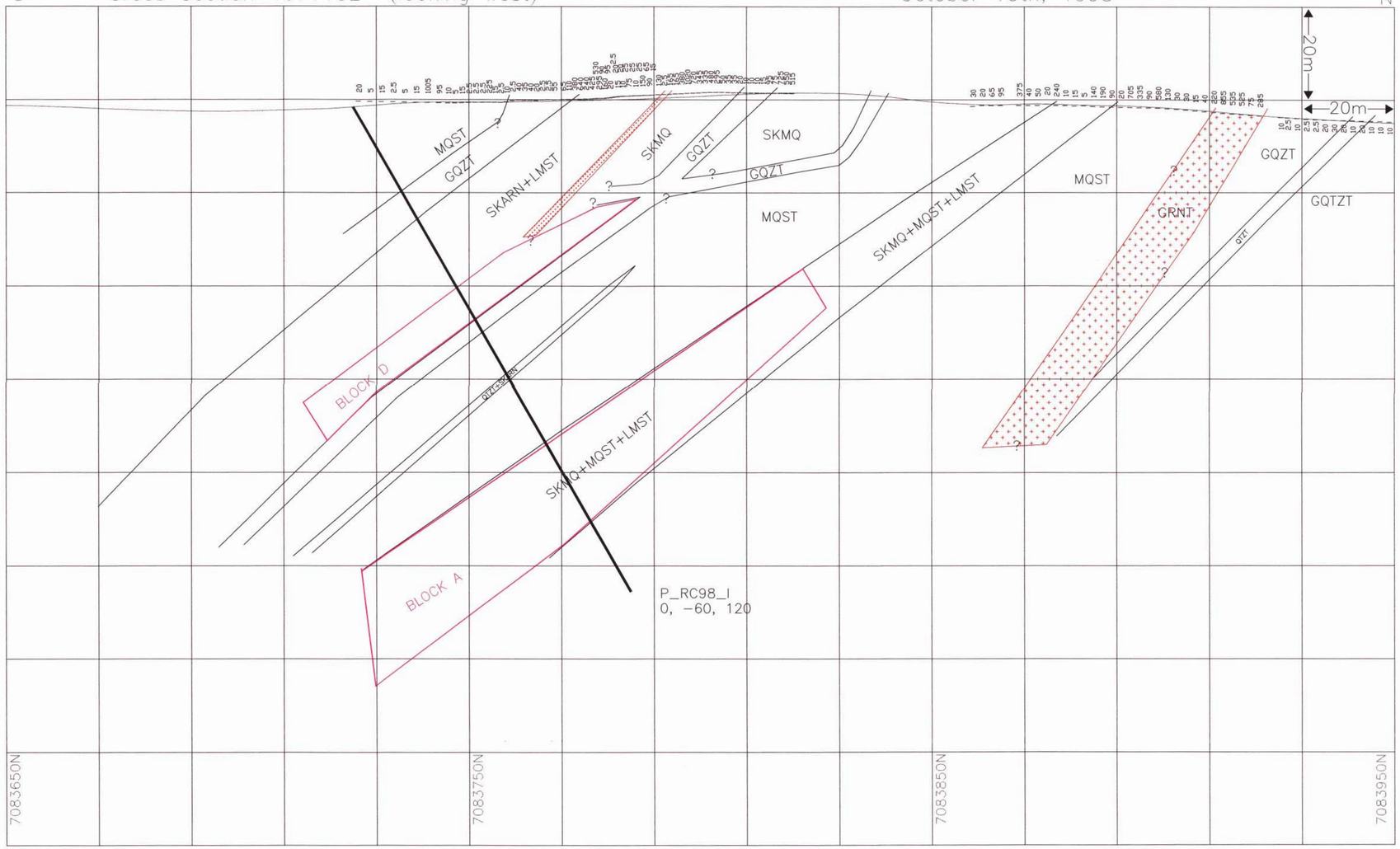
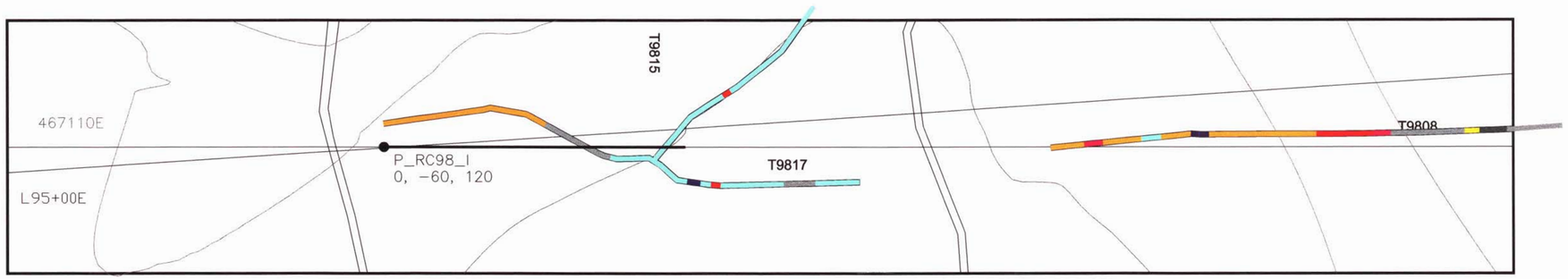
VICEROY EXPLORATION CANADA

McQuesten Property
YUKON TERRITORY
CROSS-SECTION
467190 E
(LOOKING WEST)

Date: Nov. 98	By:	Fig.
Scale: 1:500		

S Cross Section 467110E (looking west) October 10th, 1998 N





0 40 m

Scale = 1:500

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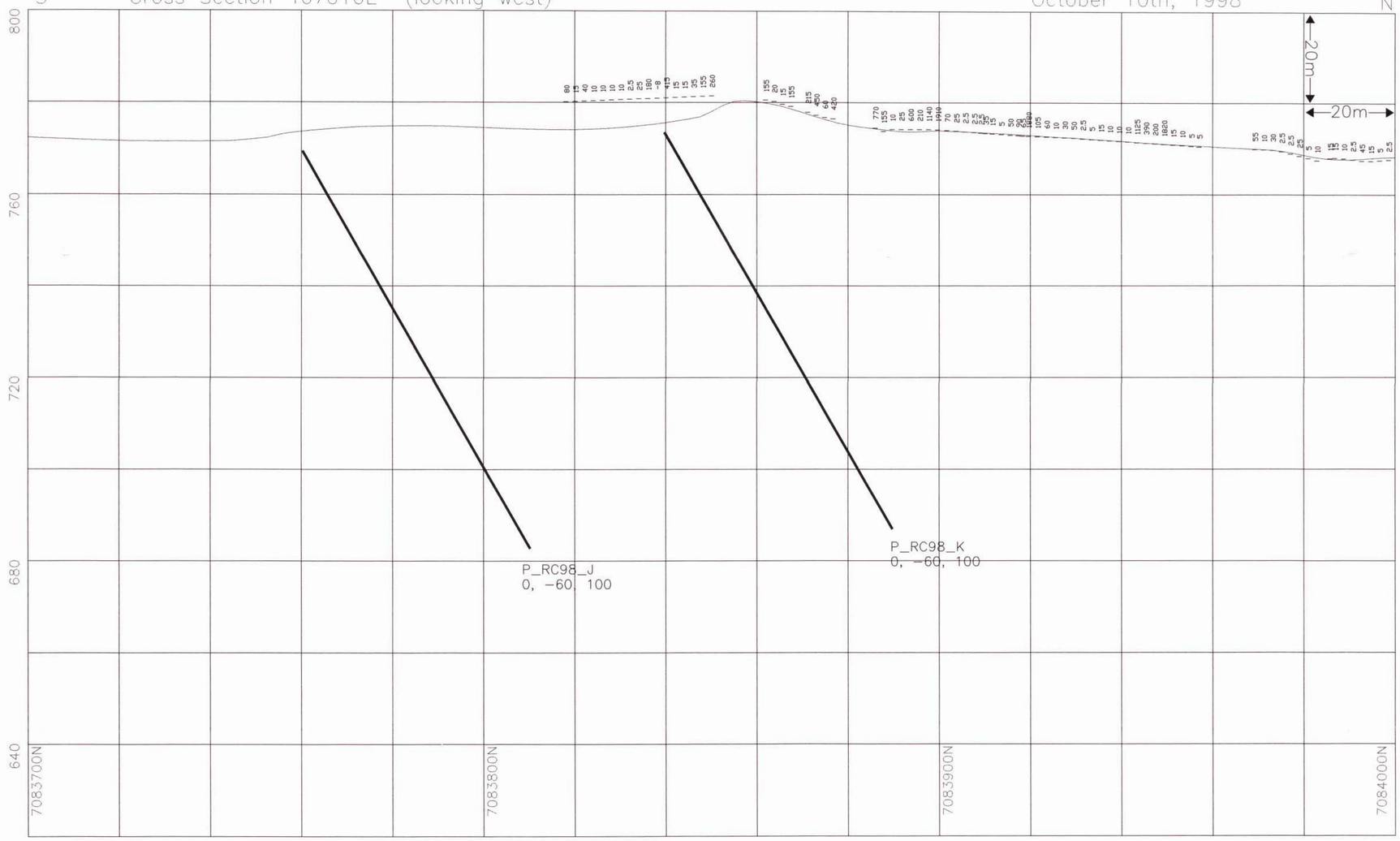
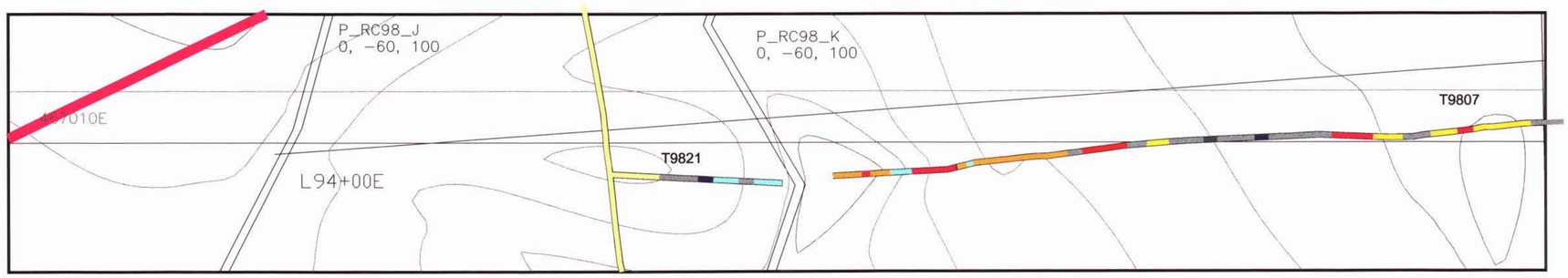
VICEROY EXPLORATION CANADA

McQuesten Property
YUKON TERRITORY
CROSS-SECTION
467110 E
(LOOKING WEST)

Date: Nov. 98	By:	Fig.
Scale: 1:500		

S Cross Section 467010E (looking west) October 10th, 1998 N





0 40 m

Scale = 1:500

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DIAND - YUKON REGION

VICEROY EXPLORATION CANADA

McQuesten Property

YUKON TERRITORY

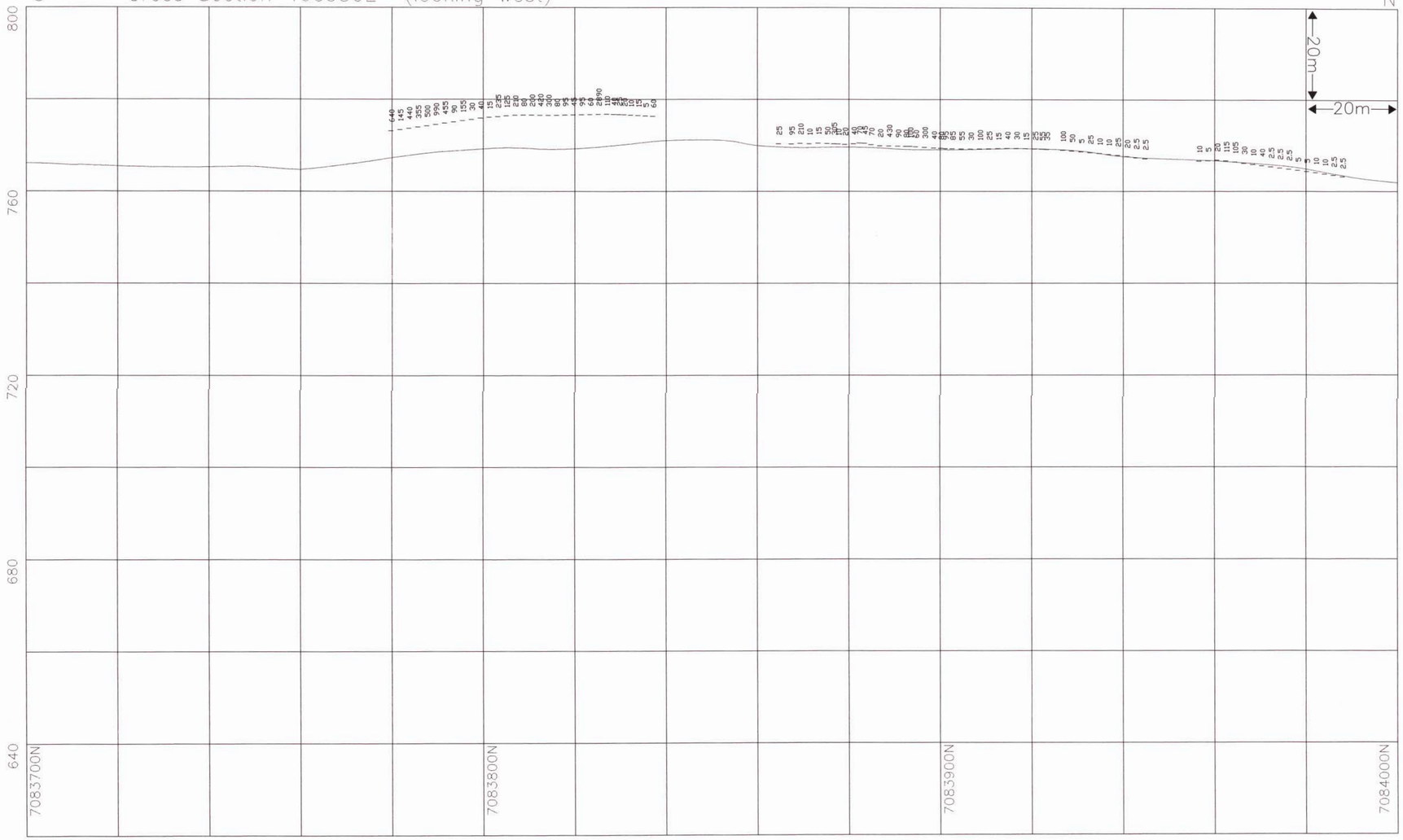
CROSS-SECTION

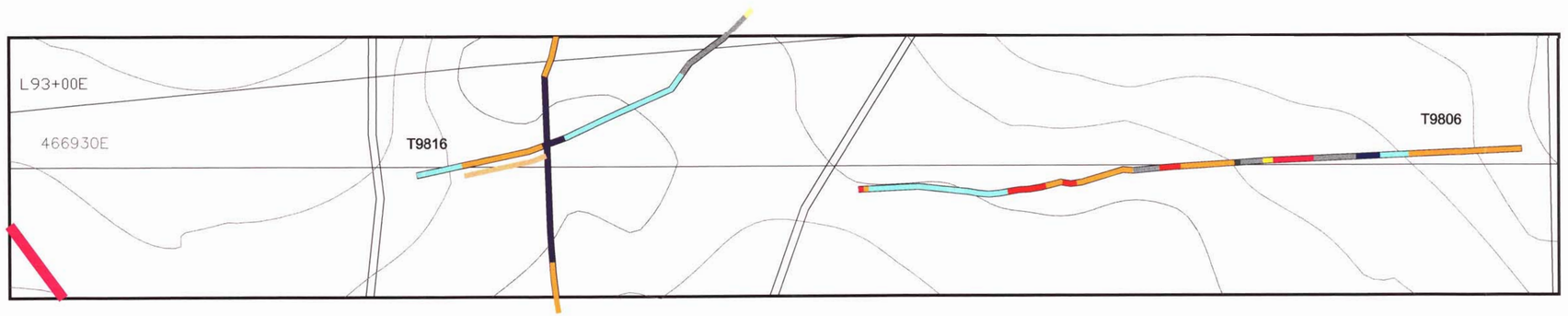
467010 E

(LOOKING WEST)

Date: Nov. 98	By:	Fig.
Scale: 1:500		

S Cross Section 466930E (looking west) N





0 40 m

Scale = 1:500

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VICEROY EXPLORATION CANADA

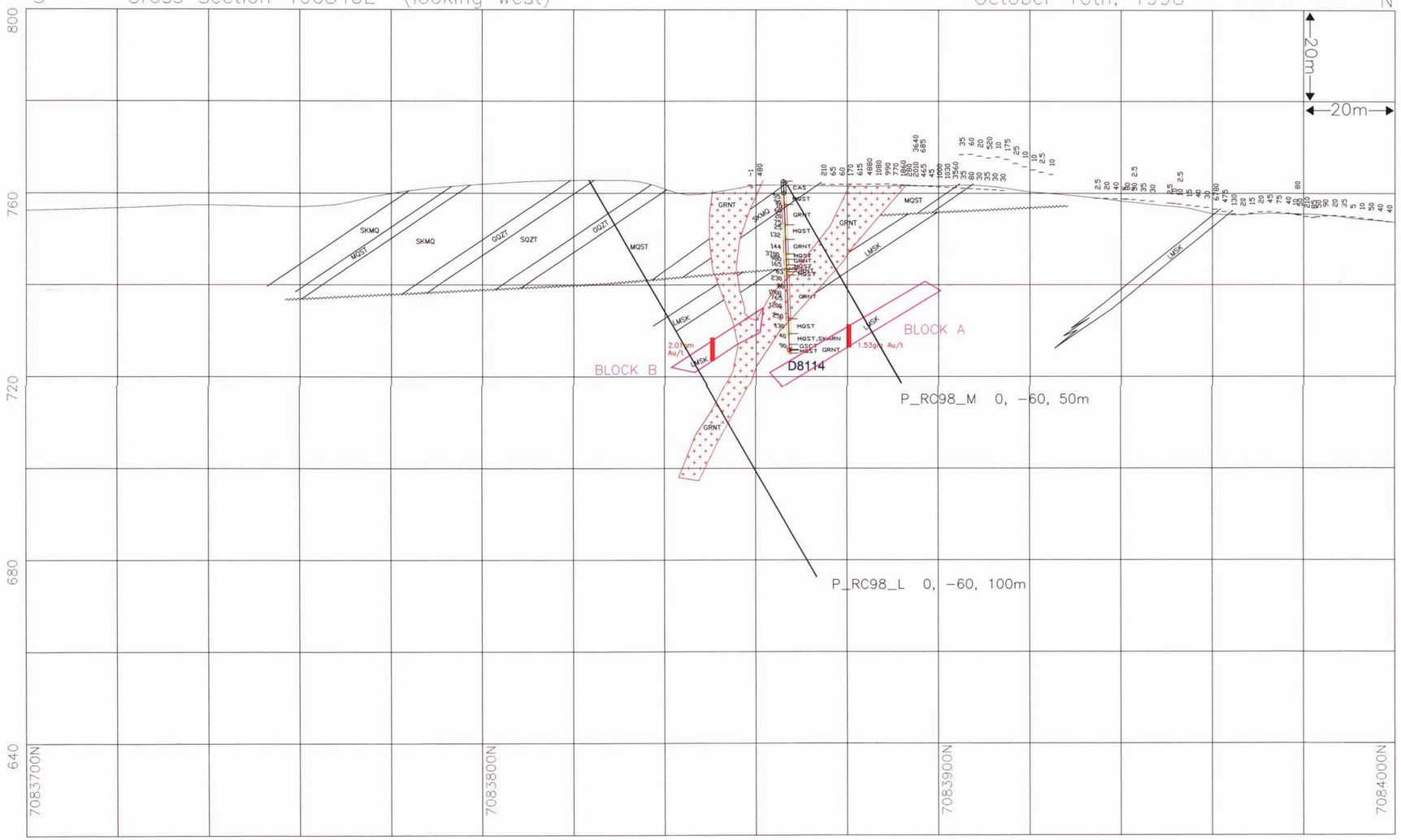
McQuesten Property

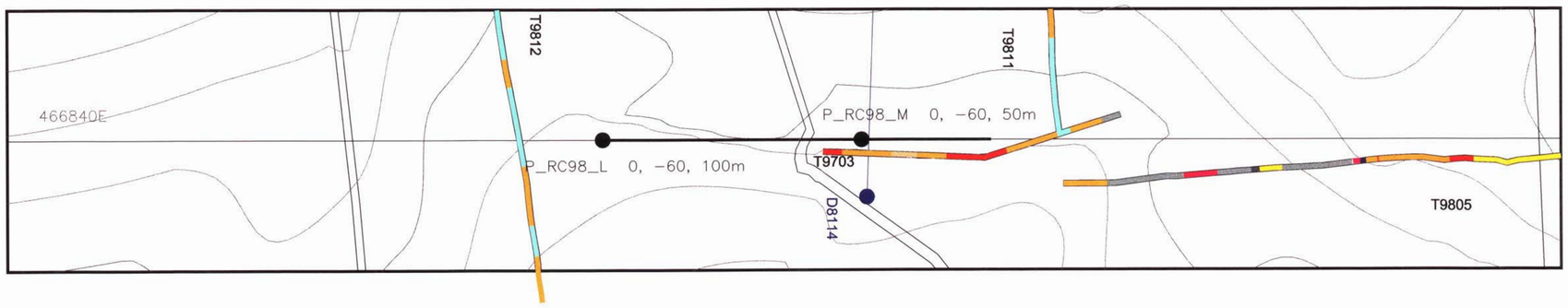
YUKON TERRITORY

CROSS-SECTION
466930 E
(LOOKING WEST)

Date: Nov. 98	By:	Fig.
Scale: 1:500		

S Cross Section 466840E (looking west) October 10th, 1998 N





0 40 m

Scale = 1:500

093985

VICEROY EXPLORATION CANADA

McQuesten Property
YUKON TERRITORY
CROSS-SECTION
466840 E
(LOOKING WEST)

Date: Nov. 98	By:	Fig.
Scale: 1:500		

S Cross Section 466760E (looking west)

October 10th, 1998

N

760
720
680
640
600

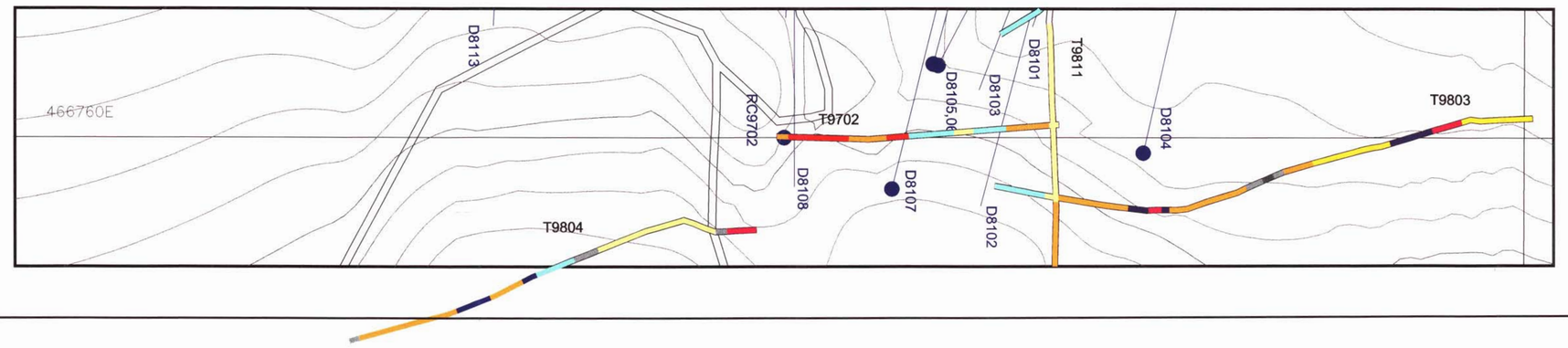
7083700N
7083800N
7083900N
7084000N

20m
20m

D8105,06
D8107
D8101
D8104
RC9702
D8108
D8102
D8103

BLOCK A
BLOCK B

MQST
LMSK
GRNT
QTZT
SKARN
LMST
GSCT
GQZT
CAS



0 40 m

Scale = 1:500

093985
DIAND - YUKON REGION, LIBRARY

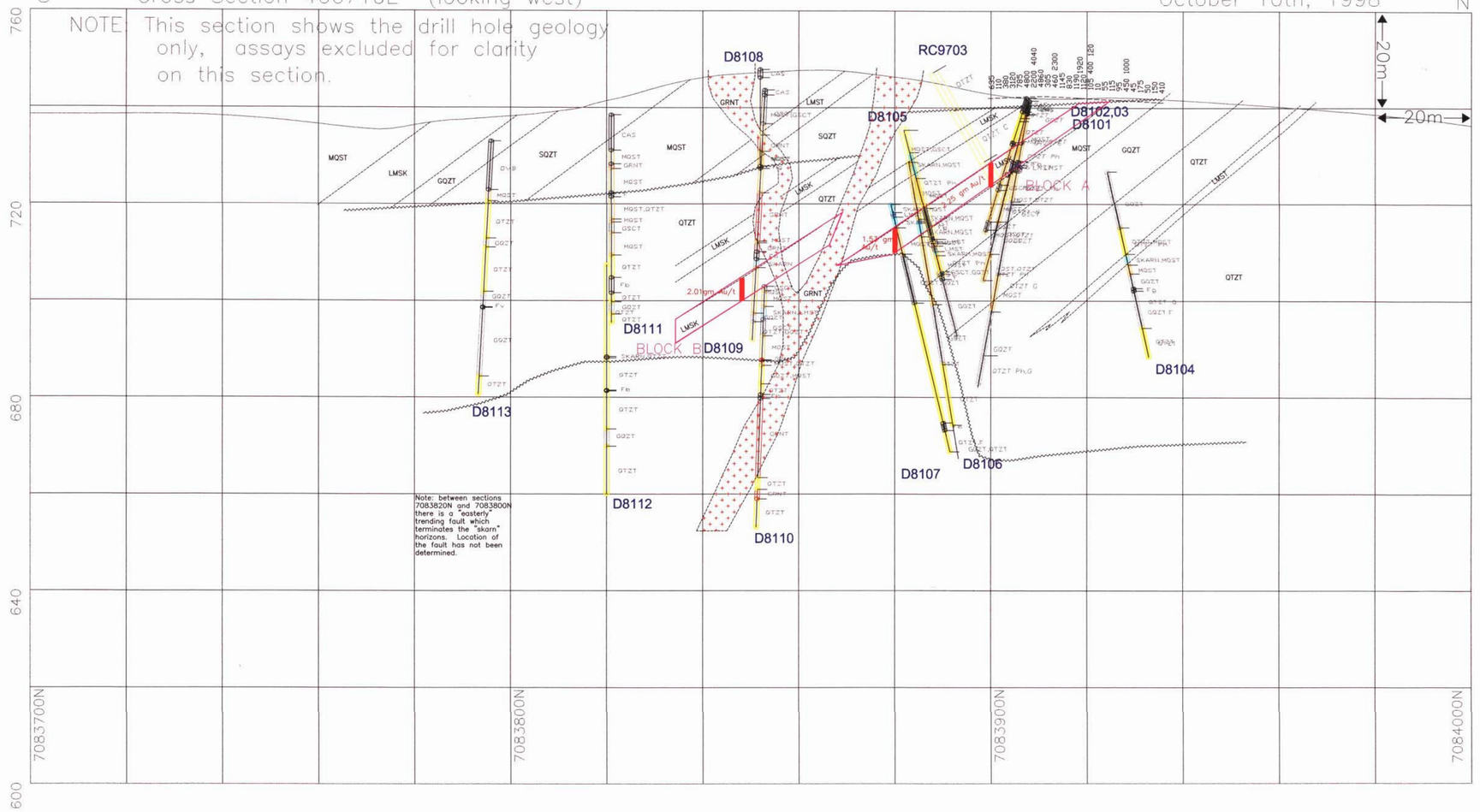
VICEROY EXPLORATION CANADA

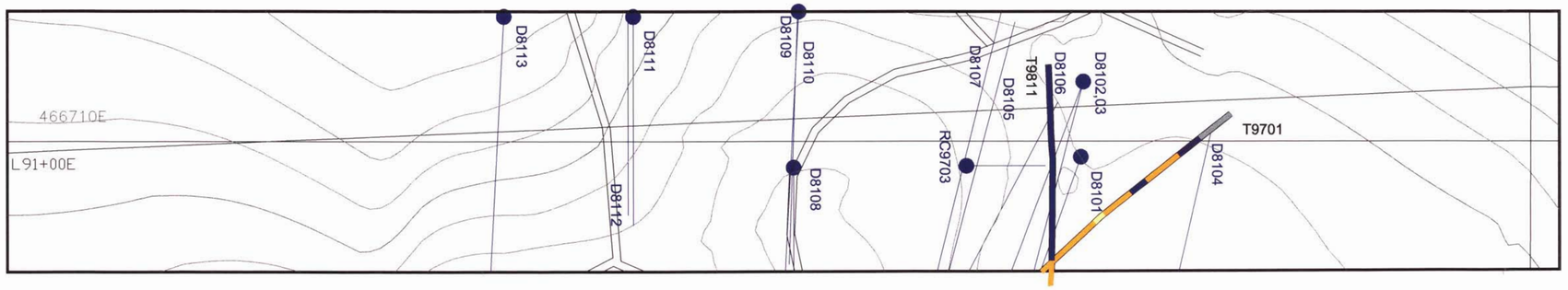
McQuesten Property
YUKON TERRITORY
CROSS-SECTION
466760 E
(LOOKING WEST)

Date: Nov. 98	By:	Fig.
Scale: 1:500		

S Cross Section 466710E (looking west) October 10th, 1998 N

NOTE: This section shows the drill hole geology only, assays excluded for clarity on this section.





0 40 m

Scale = 1:500

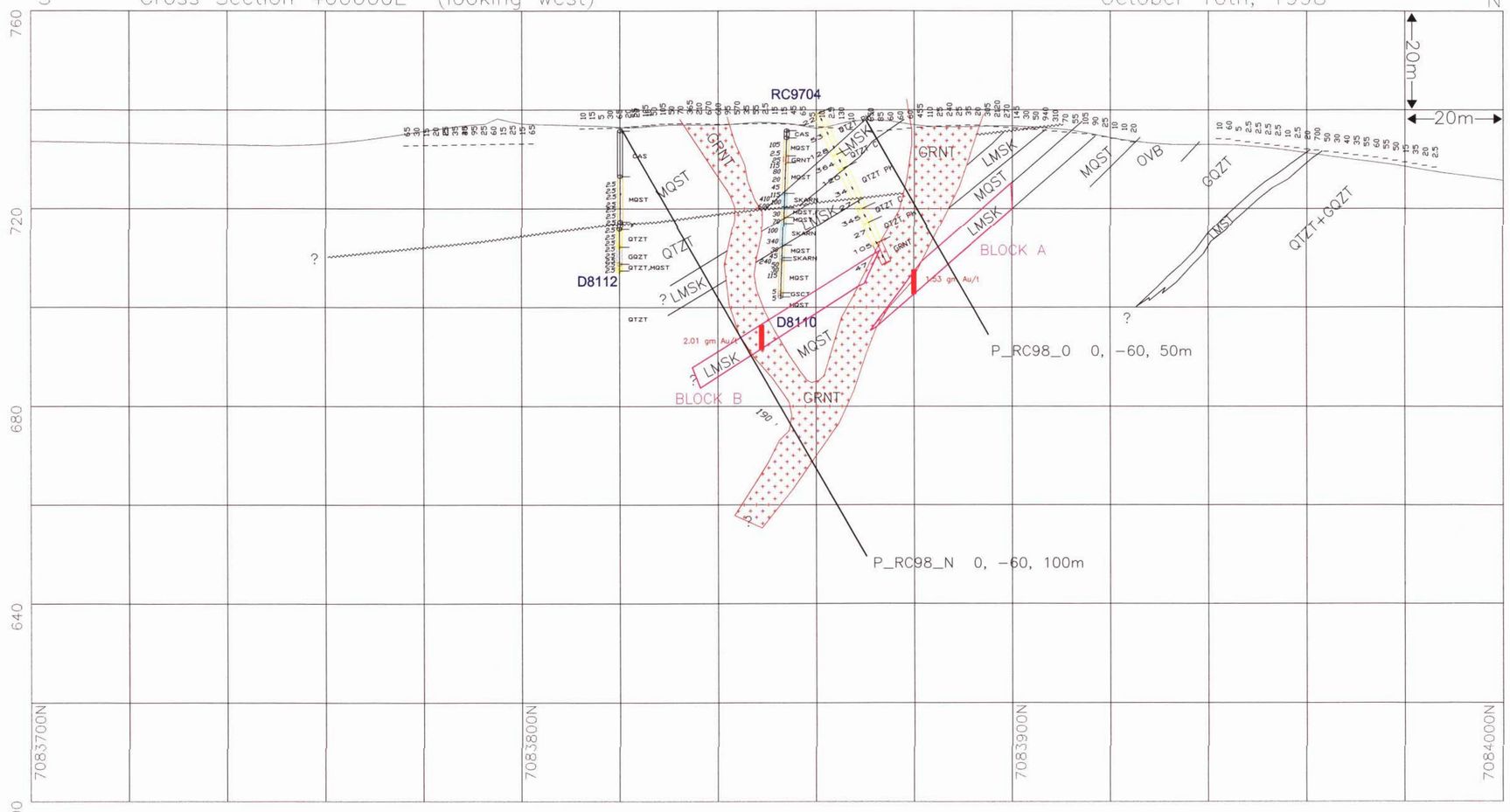
093985

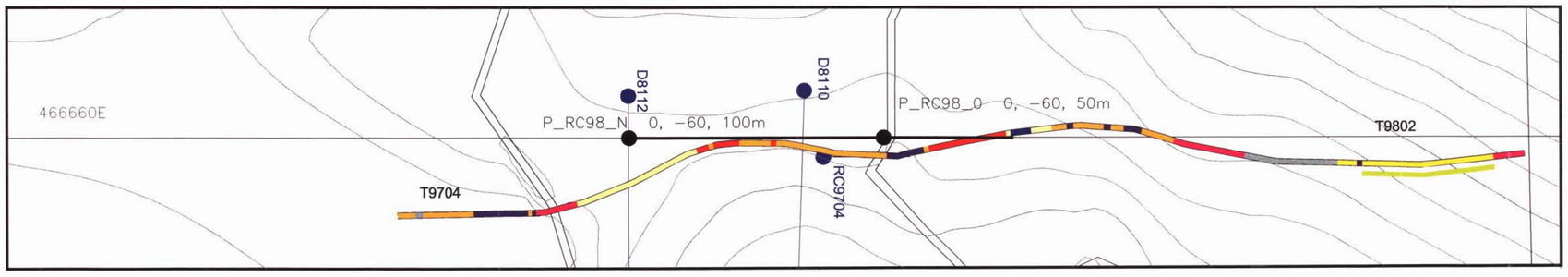
VICEROY EXPLORATION CANADA

McQuesten Property
YUKON TERRITORY
CROSS-SECTION
466710 E
(LOOKING WEST)

Date: Nov. 98	By:	Fig.
Scale: 1:500		

S Cross Section 466660E (looking west) October 10th, 1998 N





0 40 m

Scale = 1:500

093985

DIAND - YUKON REGION, LIBRARY

VICEROY EXPLORATION CANADA

McQuesten Property

YUKON TERRITORY

CROSS-SECTION

466660 E

(LOOKING WEST)

Date: Nov. 98	By:	Fig.
Scale: 1:500		

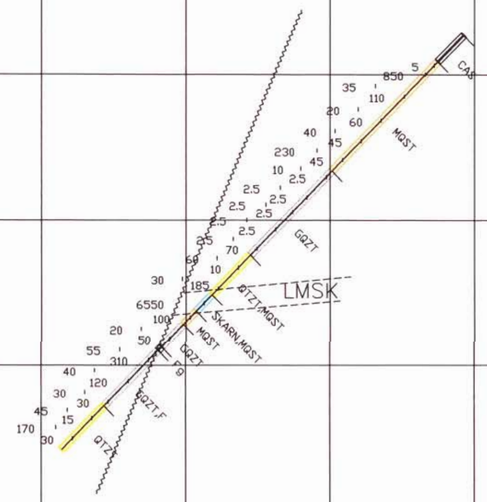
W Long Section 7083925N (looking north) October 9th, 1998 E

780

20 m

20 m

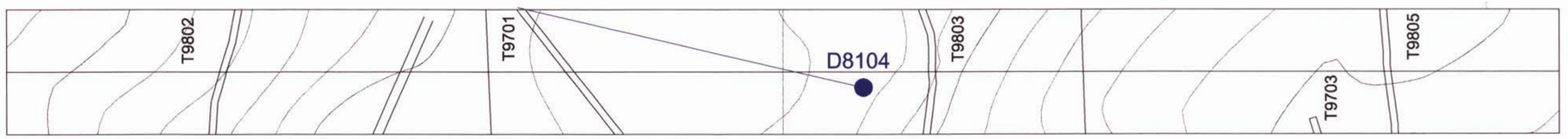
D8104



466625E

466875E

640



093 985

0 40 m

Scale = 1:500

DWG (19)

VICEROY EXPLORATION CANADA

McQuesten Property

YUKON TERRITORY

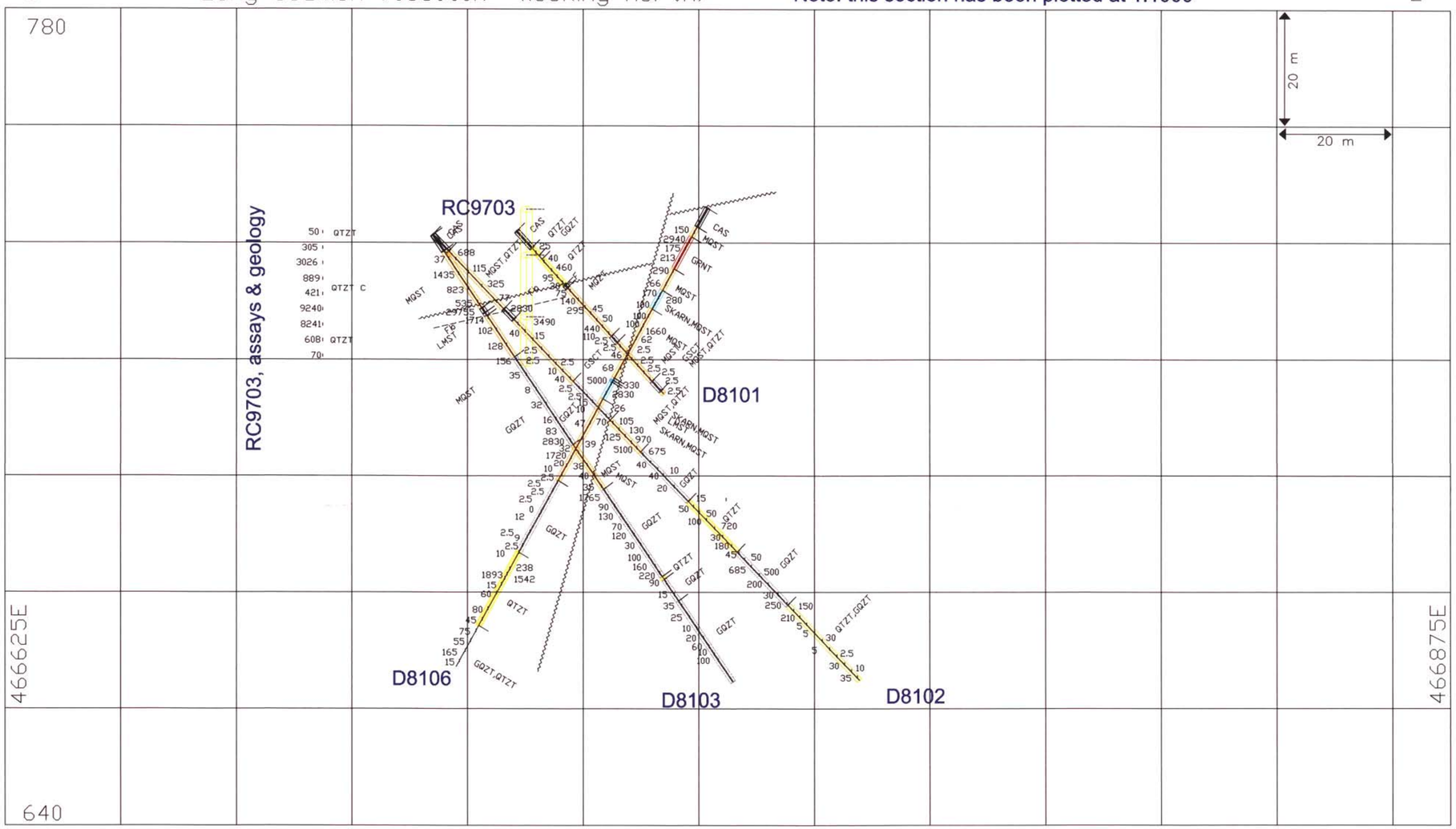
LONG-SECTION

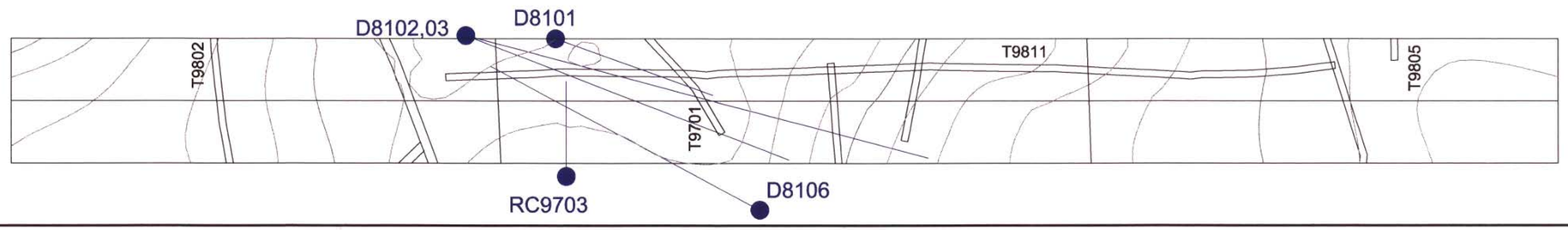
7083925 N

(LOOKING NORTH)

Date: Nov. 98	By:	Fig.
Scale: 1:500		

W Long Section 7083900N (looking north) Note: this section has been plotted at 1:1000 E





0 093985 40 m

Scale = 1:500

DIAND - YUKON REGION, LIBRARY DWG (20)

VICEROY EXPLORATION CANADA

McQuesten Property

YUKON TERRITORY

LONG-SECTION
7083900 N
(LOOKING NORTH)

Date: Nov. 98	By:	Fig.
Scale: 1:500		

W

Long Section 7083880N (looking north)

October 9th, 1998

E

780

RC9703

D8105

D8114

D8107

D8106

LMSK

LMSK

Mistake in plotting D8105 geology is not plotted to end of hole

466625E

466875E

640

20 m

20

T9802

O 0,-60,50m

RC9703

D8105,06

T9702

D8107

T9703

M 0,-60,50m

D8114

093985

0 40 m

Scale = 1:500

VICEROY EXPLORATION CANADA

McQuesten Property

YUKON TERRITORY

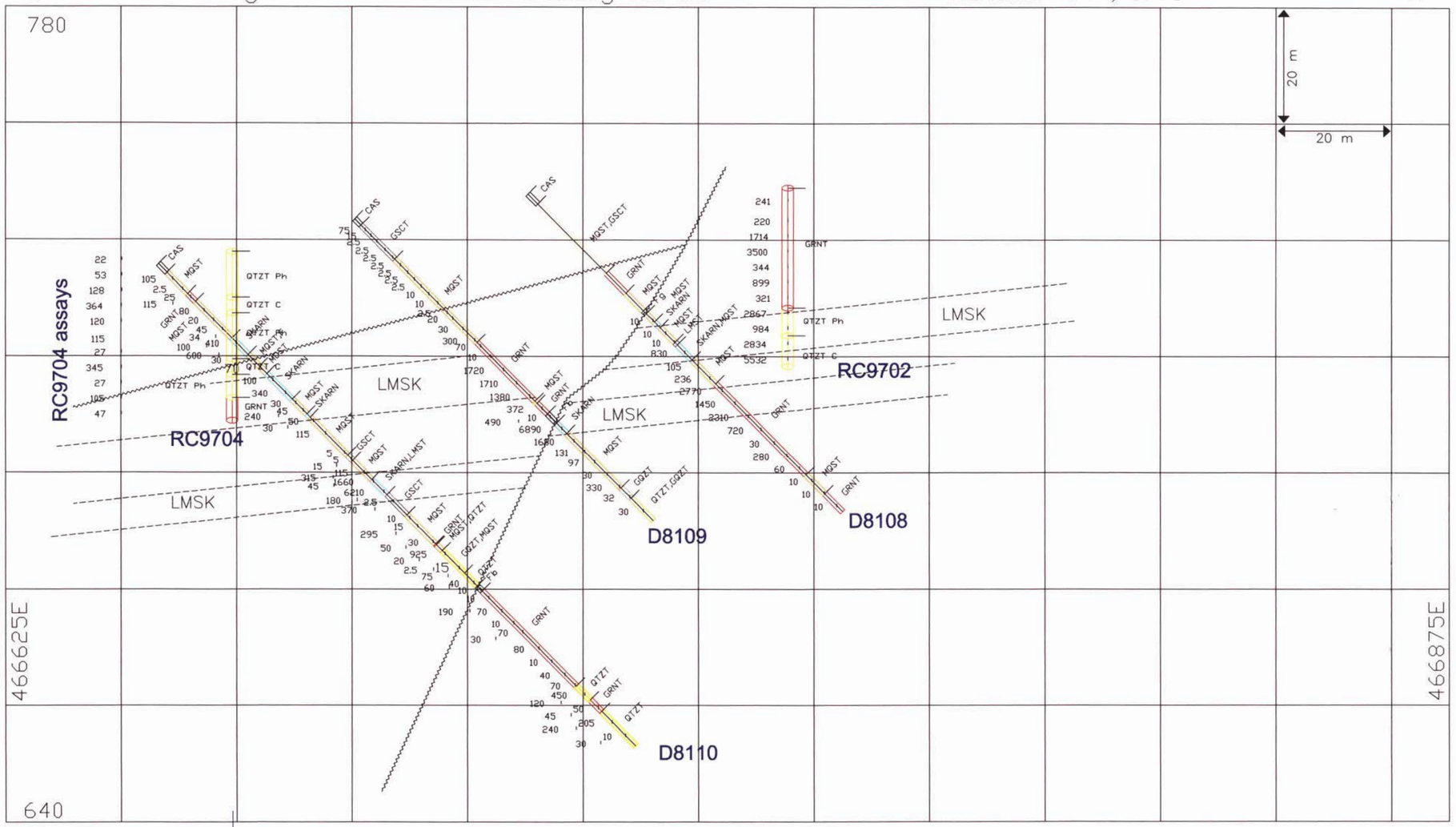
LONG-SECTION

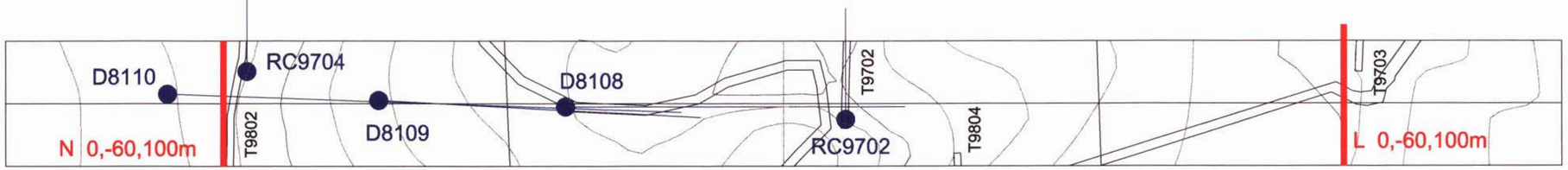
7083880 N

(LOOKING NORTH)

Date: Nov. 98	By:	Fig.
Scale: 1:500		

W Long Section 7083855N (looking north) October 9th, 1998 E





093985

0 40 m

Scale = 1:500

DIAND - YUKON REGION, LIBRARY

DWG 22

VICEROY EXPLORATION CANADA

McQuesten Property

YUKON TERRITORY

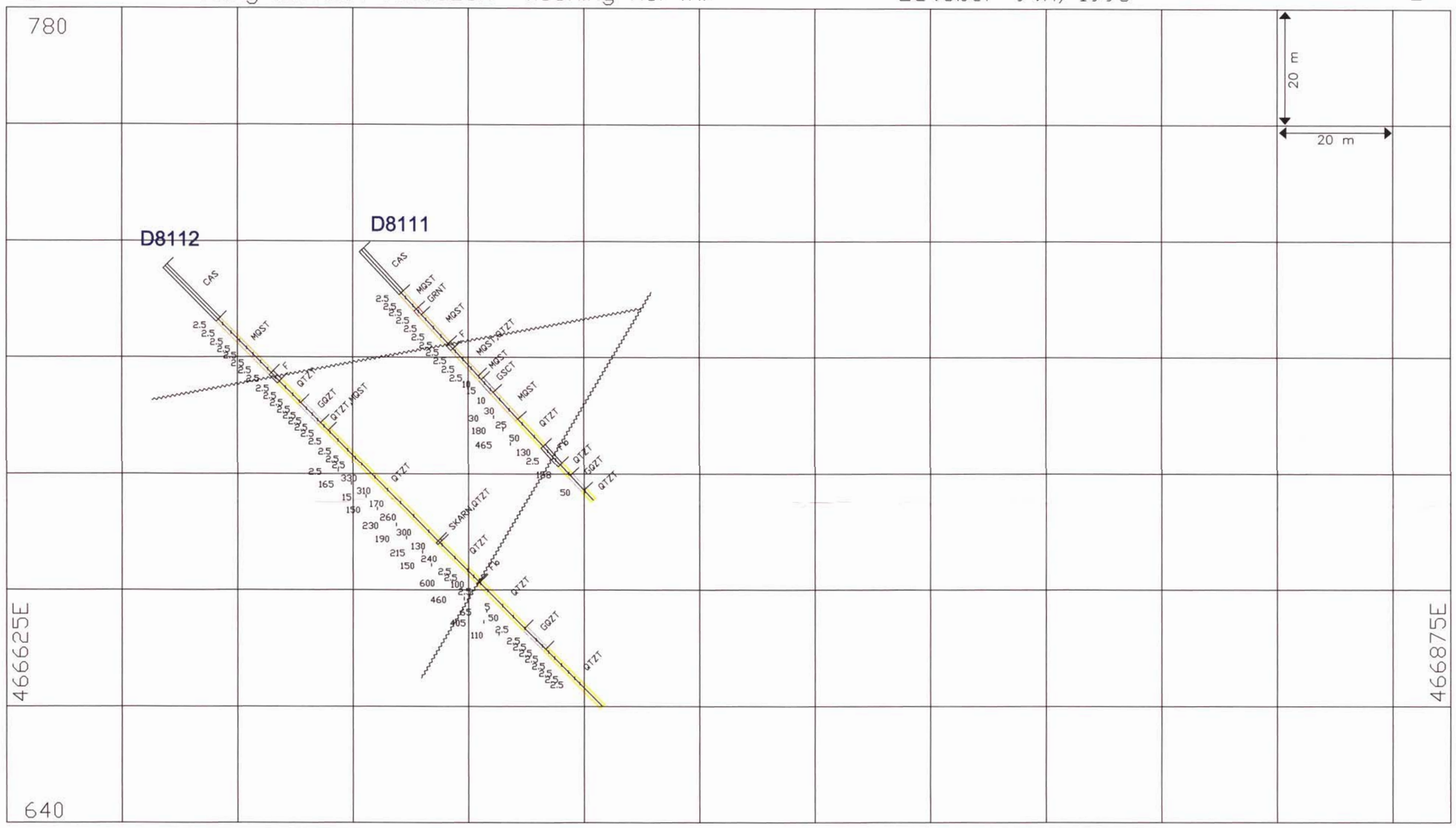
LONG-SECTION

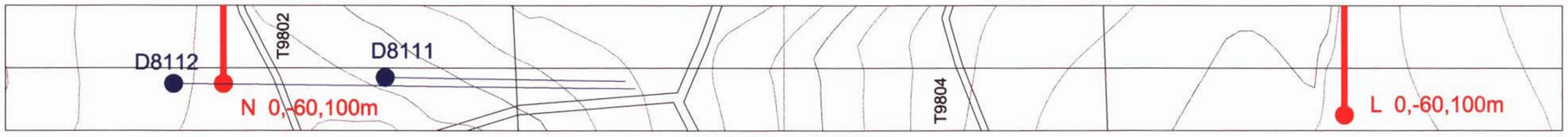
7083855 N

(LOOKING NORTH)

Date: Nov. 98	By:	Fig.
Scale: 1:500		

W Long Section 7083825N (looking north) October 9th, 1998 E





0 093985 40 m

Scale = 1:500

DIAND - YUKON REGION, MEDFD DWG (23)

VICEROY EXPLORATION CANADA

McQuesten Property

YUKON TERRITORY

LONG-SECTION

7083825 N

(LOOKING NORTH)

Date: Nov. 98	By:	Fig.
Scale: 1:500		

W Long Section 7083795N (looking north) October 9th, 1998 E

780

20 m

20 m

D8113

DVB

WQST

QTZT

GQZT

QTZT

GQZT

QTZT

GQZT

QTZT

466625E

466875E

640

D8113

T9704

T9804

T9812

093985 3/2

0 40 m

Scale = 1:500

DWG (24)

VICEROY EXPLORATION CANADA

McQuesten Property

YUKON TERRITORY

LONG-SECTION

7083795 N

(LOOKING NORTH)

Date: Nov. 98	By:	Fig.
Scale: 1:500		