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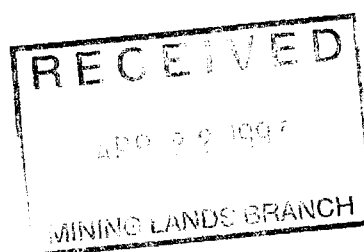
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**MIKWAM JOINT VENTURE**  
**REPORT ON 1997 DIAMOND DRILLING**  
**NOSEWORTHY TOWNSHIP**  
**LARDER LAKE MINING DIVISION**

**NTS 32E/5, 12**

Prepared For

**HIGHWOOD RESOURCES LTD**  
**BATTLE MOUNTAIN CANADA LIMITED**



**2.17187**

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## Summary

Between February 10 and March 5, 1997, 11 diamond drill holes totalling 3670.4m, were drilled on the Mikwam Joint Venture Property. Two of the three holes drilled to test the 3200 Vein intersected mineralization similar to that which produced favourable gold values in the past. This extends the known mineralization to a vertical depth of approximately 385m, over a vertical distance of 275m and extends the total strike length to approximately 210m based upon an east-west strike orientation.

Other holes tested geophysical and geochemical targets over a total strike length of 5km in the A8 Domain. All were successful in intersecting favourable sericite-ankerite alteration and/or quartz-ankerite-pyrite veins. Geophysical conductors were explained by graphitic argillite except in hole MK97-26, which intersected wide sections of disseminated pyrrhotite and pyrite, with 0.5 to 2.3m long sections of semi-massive to massive pyrite and pyrrhotite.

A total of 7800m of diamond drilling is proposed to further test the 3200 Vein, follow-up on areas of strong alteration and to test more remote targets.

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## **Introduction**

The Mikwam JV Property was originally staked in the early 1980's to cover the western extension of the Casa Berardi Deformation Zone. This structure hosts the gold deposits currently being mined by Les Mines Casa-Berardi in Quebec. During the course of exploration for gold on the property the potential for VMS base metal deposits was also recognized. These targets have yet to be fully tested.

The 1997 diamond drilling program was carried out with a two fold objective. First to follow-up on the results of the successful 1994 drilling campaign in the A8 area. Second, to investigate a number of geophysical targets up to 4km from the A8 area. At the time of writing this report, sampling of the core had not been completed. Assay results and additional expenditures will therefore be reported at a later date.

## **Location and Access**

The property is located for the most part in Bradette, Noseworthy and Hoblitzell townships in Northeastern Ontario, some 160 air-kilometres northeast of Timmins, Ontario (Figure 1). The eastern property boundary rests in Dieppe township in Northwestern Quebec and is only some 15 km west of Les Mines Casa Berardi (Figure 2). The property is roughly 36 kilometres in length and is roughly 7 kilometres wide at its widest point in Noseworthy township.

Access to the Mikwam Property is limited to helicopter, and in rare locations to fixed wing aircraft, during the summer and fall period. Larger tracked, muskeg-type vehicles can negotiate local terrain in this period, but creeks and rivers offer major obstacles to complete access.

In winter it is possible to traverse the entire property on an existing network of winter roads which have been generated over the last eight to ten years by Newmont and other major companies such as Noranda and Esso Minerals, who have also been active in the area. By crossing the Turgeon River, this road system connects with the all-weather Casa Berardi Road in Dieppe Twp, Quebec. During the winter of 1997, Tembec began actively logging an area to the south of the property in Bradette and Noseworthy Townships. Rather than attempt to construct an ice bridge on the Turgeon River in mid-winter, a fee was paid to Tembec to allow use of the bridge. A 5km long road was then constructed to connect Tembec's road system with the winter roads already existing on the property.

West of the Burntbush River, winter roads connect to the Tomlinson Road, which in turn connects to the Translimit Road, which runs between Iroquois Falls and the Ontario-Quebec border.

## **Property Status**

The property consists of 588 contiguous, unpatented, single unit claims in Hoblitzell, Noseworthy

# REGIONAL LOCATION MAP

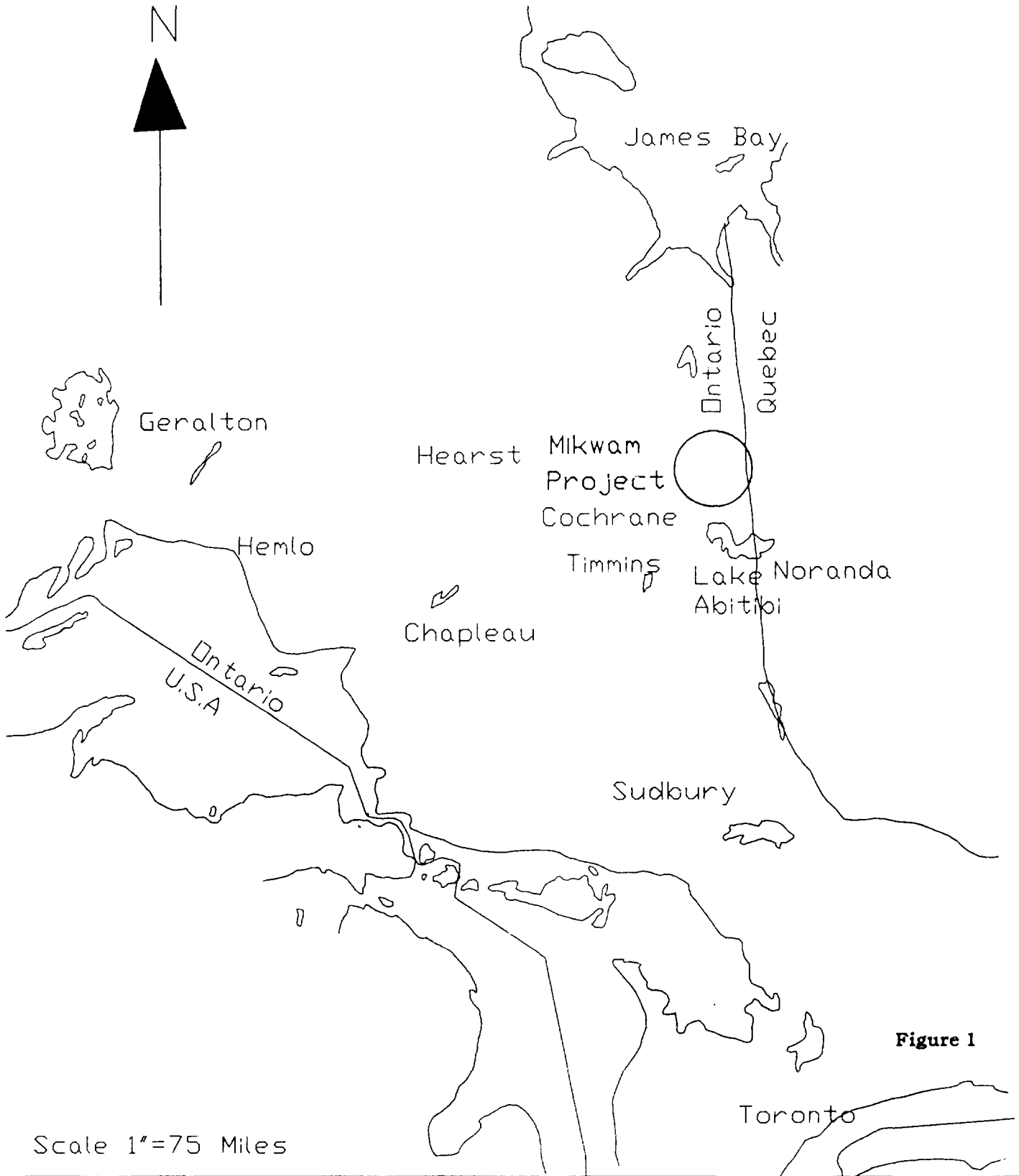
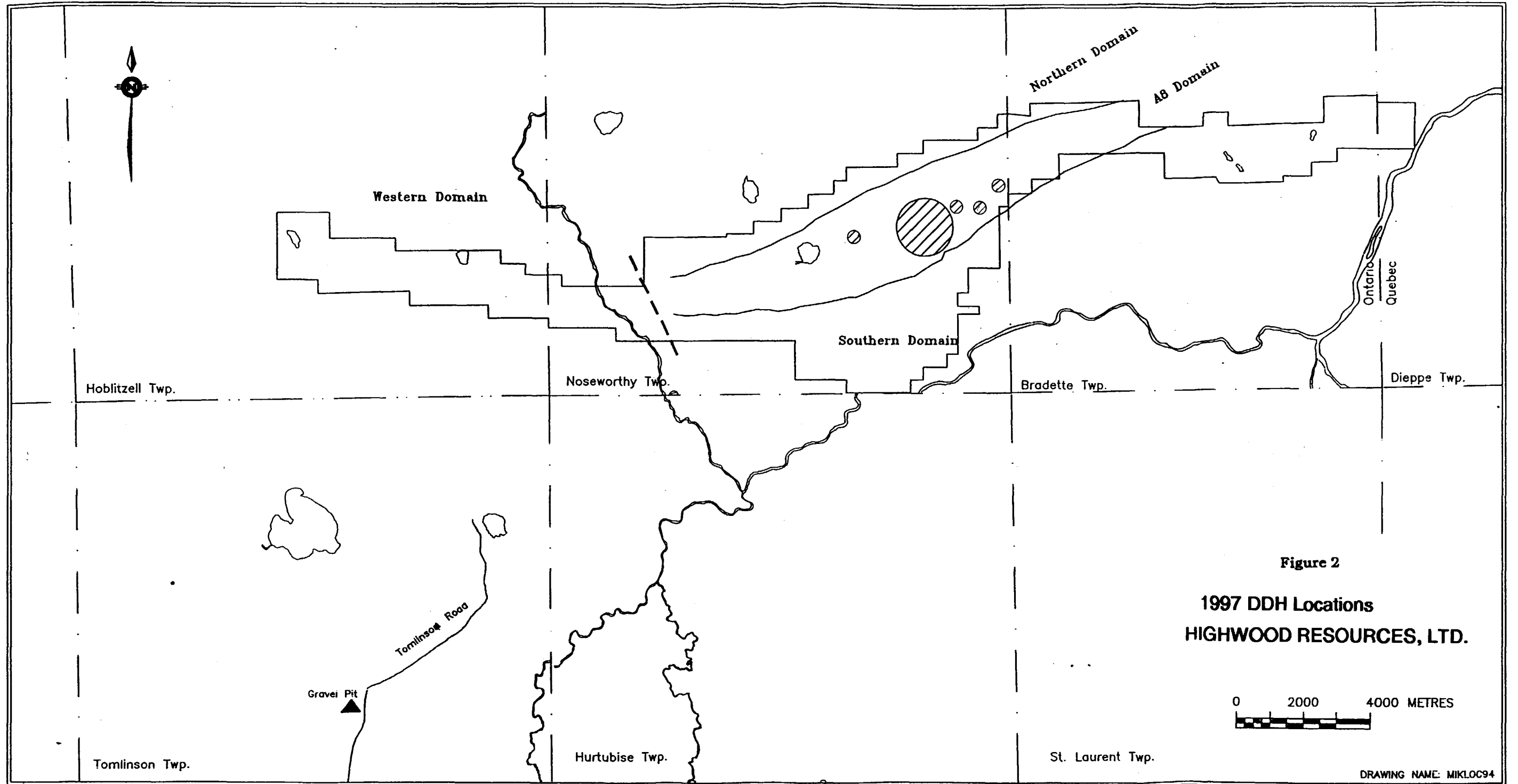


Figure 1



**Figure 2**  
**1997 DDH Locations**  
**HIGHWOOD RESOURCES, LTD.**

DRAWING NAME: MIKLOC94

and Bradette Townships, Ont and Dieppe Township, Que. The registered holder of all of the claims is Newmont of Canada Ltd. Exploration on the property is conducted under a joint venture agreement between Highwood Resources Ltd (formerly Mountain Minerals, Ltd) and Battle Mountain Canada Limited (formerly Hemlo Gold Mines, Ltd.) Golden Shield Resources Ltd. retains a 15% net profits interest in the 97 westernmost claims. Prior to commencement of the 1997 work program, Highwood Resources Ltd. controlled approximately 56% and operator ship of the Joint Venture, while Battle Mountain Canada limited held 44%. Royal Oak Mines Inc. performs work on the J.V. lands on behalf of Highwood Resources Ltd.

### Previous Work

Only a limited amount of work had been conducted on the property prior to 1981. Since that time, airborne magnetometer and electromagnetic surveys, ground magnetometer, HEM and IP surveys have been conducted, 403 overburden holes drilled and 34624m drilled in 122 diamond drill holes. A brief summary of past work is given in Table 1:

**Table 1**  
**Summary of Previous Work**  
**Mikwam Joint Venture**

1958	<b>Conwest Exploration</b>	DD 8 holes totalling 852m, recon HEM surveys
1959	<b>Conwest Exploration</b>	DD 2 holes totalling 312m
	<b>Tazin Mines Ltd.</b>	DD 3 holes totalling 305m
1965	<b>Rio Tinto Inc.</b>	Magnetic, VEM and gravity surveys, DD 3 holes totalling 312m
1973	<b>Dome Mines Ltd.</b>	HEM and magnetic surveys
	<b>Noranda Exploration</b>	VEM and magnetic surveys
1974	<b>Dome Mines Ltd.</b>	DD 7 holes totalling 873m
1975	<b>Patino Mines Ltd.</b>	HEM and magnetic surveys
1976	<b>Geophysical Engineering</b>	DD 1 hole totalling 76m
1977	<b>Hudson Bay Exploration</b>	HEM survey
1978	<b>Ontario Geological Survey</b>	Regional mapping program (Johns, 1978)
1981-1989	<b>Newmont Exploration (Mikwam J.V.)</b>	Magnetic surveys (1000 km), HEM surveys (770 km), selected I.P. coverage, helicopter-borne magnetic and electromagnetic surveys (723 km), overburden drilling (RC & sonic; total 403 holes), and Diamond Drilling (105 holes totalling 26,772m)
1990	<b>Noranda Exploration (Mikwam J.V.)</b>	DD 8 holes totalling 2,362m, re-evaluation of overburden drilling results, limited I.P. survey, re-processing of Newmont's historical HEM and magnetic data

1992            **Trader Resources Corp**      DD 9 holes totalling 2,597m  
**(Mikwam J.V.)**

1994            **Trader Resource Corp.**      DD 9 holes totalling 2893m

1994-1996      **Property Idle**                      Trader Resource Corp. changed name to Mountain Minerals, Ltd. Mountain Minerals Ltd. amalgamated with and changed name to Highwood Resources Ltd. Noranda Exploration transferred all gold properties, including the Mikwam J.V. interest to Hemlo Gold Mines Ltd. Hemlo Gold Mines Ltd. subsequently amalgamated with and changed name to Battle Mountain Canada Limited.

### **Regional Property Geology**

The property is underlain by a sequence of interbedded volcanic and sedimentary rocks running the length of the Mikwam J.V. property and continuing eastward to the Quevillon area in Quebec. Numerous gold deposits are located within this package in Quebec, including the Joutel (Agnico-Eagle), Estrades and Les Mines Casa Berardi deposits.

Outcrop exposure in the area is limited to the vicinity of the Burntbush River on the western part of the Property. Otherwise, information on the underlying geology has come entirely from diamond drill core and bedrock chips from overburden drilling.

Regionally the Property is underlain by two roughly east-west striking sequences of mafic to felsic volcanic flows and pyroclastics and interbedded sedimentary rocks the (Southern and Northern Domains of Pressacco (1994) separated by a complex assemblage of interbedded greywacke, argillite, graphitic argillite, conglomerate and chloritic iron formation (A8 Domain of Pressacco (1994)). These sediments are known as the Taibi Group in Quebec and can be traced eastward from the Mikwam Property, through Les Mines Casa Berardi property to Currie Twp, Quebec.

Between Tadpole and Noseworthy Lakes, a series of north west trending structures complicate the geology. West of this area, stratigraphy strikes roughly east-southeast and consists of argillaceous and conglomeratic sediments, andesitic to dacitic pyroclastics and iron-tholeiitic basalts with minor komatiite. Available regional geology maps show that this volcano-sedimentary sequence continues to the west, then wraps around the Bateman Lake Stock.

### **Geology of the A8 Area**

The portion of the property which has had the most work done on it is known as the A8 Area. This is underlain by a complex assemblage of interbedded argillite/siltstone, graphitic argillite, conglomerate, greywacke and iron formation. All lithologies in this area except the graphitic argillite display weak to strong sericite-ankerite alteration, often over wide widths. Weak quartz, quartz-calcite, and quartz-ankerite stringers and veinlets and minor to 1% fine to medium grained



disseminated pyrite are ubiquitous features in this area. A brief description of the major lithologies is given below. Identical lithologies occur outside of the A8 Area but are generally less altered and less mineralized.

### **Argillite/Siltstone**

There are probably more than one unit of this lithology, but all are similar in appearance. The rock consists of aphanitic light to dark grey argillite with 1-10 cm beds of fine grained light to moderate grey siltstone, with the argillite being the dominant component. Rarely, 1 to 2m thick beds of siltstone occur, containing thin interbeds of argillite. Interbedded graphitic argillite is common, however and these two units may grade into each other through interfingering or by gradation through dark grey, carbonaceous argillite. This lithology is commonly moderately to strongly foliated, and also variably sericitized, ankeritized and chloritized. Locally foliation is parallel to bedding and the ribbon texture produced by the combination of alteration and shearing may be difficult to distinguish from bedding. In some places, though foliation does cross bedding.

### **Graphitic Argillite**

This is a dark grey to black, aphanitic rock with a sooty appearance. Between 2 and 10% fine to coarse grained cubic, disseminated, stringer and/or nodular pyrite occur throughout the unit. Very fine grained, beds of pyrite up to 30cm thick can locally be present. Light grey interbedded siltstone is common, but usually not a major component. Fine laminations can locally be seen within the argillite. The unit is commonly foliated and often has quartz-calcite ribbons and veinlets parallel to foliation.

### **Quartz Greywacke**

This is a light to moderate grey, fine to medium grained rock containing 5 to 25% glassy quartz grains 0.25 to 2mm in diameter. The unit is usually unbedded and weakly to moderately foliated. Locally, 2-10mm beds containing 25-50% pyrite pyrrhotite occur, as in hole MK97-22. Argillite beds up to 2m thick also occur. The quartz greywacke is fairly consistent in appearance, and thus has value as a marker horizon. However Coad ( personal communication, 1997) has suggested that this unit may grade laterally into conglomerate. The presence of quartz grains in some argillites suggests a gradation into finer sediments as well. In the A8 area, this unit is strongly sericitized and locally contains medium to coarse, disseminated fuchsite grains.

### **Conglomerate**

This is one of the most variable units on the property. "Fresh" relatively unaltered and undeformed conglomerate consists of moderate grey, fine grained, sandy matrix supporting subrounded to well rounded clasts 5mm to 10cm in diameter. Clasts compositions include mafic volcanics, chert, pyritic chert, vein quartz and rare granodiorite/tonalite. 1-2% fine (0.25mm) quartz eyes locally occur in the matrix. The conglomerate also contains argillite interbeds up to

20cm thick.

More commonly, the matrix is sericitized, chloritized and moderately to strongly foliated. Clasts may also be altered and show elongation ratios of 5:1 to 10:1 in the direction of foliation. Locally, as at the end of the hole MK97-18X the unit is extremely sheared, elongation ratios are estimated at 20:1 and the unit superficially resembles a laminated argillite/siltstone sequence. In this last case, the chert and vein quartz clasts stay relatively undeformed with calcite-quartz forming sigma structures around them. The volcanic clasts are also a light buff colour, a colour which is not usually seen in the argillites.

### **Chloritic Iron Formation**

This unit consists of dark green very fine grained chloritic argillite containing beds and laminations of magnetite and cherty tuff. In most cases, the chloritic argillite is the dominant component. The cherty tuff consists of aphanitic, yellowish buff coloured, highly siliceous laminations, with or without inter laminated magnetite. These units are similar to the Key Tuffite in the Matagami area. Up to 5% pyrite may be present as stringers and disseminations in the argillite. This unit may be gradational into argillites as described earlier, as in hole MK97-19. The iron formation is probably two separate iron formations, which have been repeated many times by folding.

### **Felsic Fragmentals**

Felsic fragmental rocks do not occur in the A8 Area, but were encountered during the current drilling program in holes MK97-26 and MK97-28. These are light to medium grey or light buff in colour and consist of mainly tuffs and lapilli-tuffs. Moderate to strong sericite-ankerite and/or sericite chlorite alteration occurs throughout. 1 to 10% fine grained pyrite and pyrrhotite occurs between the fragments as disseminations and stringers.

### **Structure**

The recent drilling supports the contention of Pressacco (1994) that the Mikwam Property has been affected by intense folding. Medium scale folding is readily visible in drill core, especially within the iron formation and argillites. Also bedding and/or foliation angles often change dramatically within a few metres of core length. Such features as crenulated foliation and a weak secondary foliation suggest the area has been affected by at least two folding events.

The major faults on the property appear to be localized along graphitic argillite units, as it was found that graphitic gouge and breccia tends to be developed near the edges of these units. These faults may provide structural controls for potential mineralization. Smaller sections of fault gouge and breccia were also seen in other lithologies.

## **Mineralization**

Several styles of mineralization are present on the Mikwam property. Minor to 1% fine grained disseminated pyrite is ubiquitous in almost all rock types. quartz-calcite and quartz ankerite stringers and veinlets, parallel to or cutting foliation are likewise widespread. Minor amounts of brown or black tourmaline are common in these stringers. At least two generations of veining are present, as some veins are boudinaged or folded while others appear undeformed.

Coarse grained cubic and nodular pyrite is common in the graphitic argillite. Locally, the nodular pyrite forms semi-massive sections as in hole MK97-20. Semi-massive to massive bedded pyrite up to 30cm thick also occurs in the graphitic argillite.

In hole MK97-26, wide sections of fine grained stringer and disseminated pyrite and pyrrhotite within felsic lapilli-tuffs were found. Sections of semi-massive to massive pyrite/pyrrhotite veins also occur. The pyrite has a “spongy” texture similar to that seen in the 3200 Vein (see below).

Although narrow, high grade veins occur on the property, none were targeted during the current drilling program. These are described in previous reports (Pressacco, 1994, Coad, 1992).

### **3200 Vein**

This consists of a zone of quartz flooding and sulphidization at or near the contact of chloritic iron formation and either argillite (hangingwall) or conglomerate (footwall). Discrete quartz veins do occur in this zone, but assay results from previous drilling (Coad, 1992, Pressacco, 1994) indicate these are lower in grade than the highly sulphidized sections. Five to 50% medium to coarse grained cubic pyrite and 1 to 5% coarse grained arsenopyrite within a highly sericitized, quartz flooded matrix makes up the bulk of the zone and tends to carry better gold values. Pressacco (1994) noticed that the best gold values tend to be associated with pyrite containing fine vugs, yielding a “spongy” texture. As well, pyrrhotite was noted to indicate lower gold values (<3g/t). The zone strikes approximately east-west, but appears to change direction to strike approximately 115 degrees near its western limit.

### **1997 Diamond Drilling Program**

Between Feb 10 and Mar 5, 1997 a total of 3670.4 metres of diamond drilling were completed in 11 holes. The purpose of this drilling was two fold: first, to further test the limits of the 3200 Vein mineralization and second, to test a number of geophysical conductors elsewhere in the A8 Domain. All core was BQ. Drilling was contracted to Bradley Brothers Ltd, Rouyn-Noranda, Quebec.

It was originally intended to take Sperry-Sun tests every 60m down the hole. However, malfunctioning down hole instruments and the time required for repairs resulted in only acid tests being taken for some holes and a combination of acid and sperry sun tests being taken for others.

Heavy overburden conditions resulted in several whole or partial casings being left in the ground. This cut into the project budget substantially. Of a positive nature, holes MK97-21 and 22 were found to be making water. In fact, MK97-22 supplied water for holes MK97-18 and MK97-24

With the exception of part of the last hole, all core was logged at the camp established near the 3200 Vein area. Approximately one third of the core was split on site with a hydraulic splitter, with the remainder being sawn at Royal Oak's core shack in Schumacher. In the split/sawn sections sample lengths were generally not less than 30cm and rarely more than 1.5m. In sections displaying little visible mineralization, the core was "composite" sampled. This procedure involves taking a 5 to 10cm long piece of core approximately every 1.5m and placing these in a plastic bag to form a 0.5 to 2kg sample. Should anomalous gold values be detected in any of these samples, the interval will be relogged and sawn.

Assaying is being conducted by Spectrolab Inc. in Rouyn-Noranda, using the Fire Assay-Atomic Absorption method on a 1 assay-ton subsample. Results will be presented in a separate report.

## Results

Since assaying is still being conducted, only visual results can be reported at this time. Three holes tested the projected dip and strike extensions of the 3200 Vein Zone. Two of these MK97-19 and MK97-23 were successful in intersecting quartz-pyrite-arsenopyrite mineralization identical to that encountered in the 1994 drilling program. Thus, the 3200 Vein is now known over a total strike length of approximately 210m, based upon an east-west strike and a vertical distance of 275m to a maximum vertical depth of 385m. The zone is open below these holes.

Two holes, MK97-24 and MK97-18 were drilled to test a possible repetition of the 3200 Vein, 200m to the east. Over 100m of overburden was encountered in this location. Hole MK97-24 was abandoned due to the overburden conditions. This led to MK97-18 being drilled, 30m south of MK97-24. This hole intersected weak quartz-ankerite stringers and arsenopyrite mineralization near the end of the hole. This hole was later deepened.

The other eight holes all tested geophysical and geochemical targets over a total distance of 5km in the A8 Domain. Most of these conductors were found to be caused by graphitic argillite. Some encouragement can be had, however, from the fact that strong faulting is evident within the argillites and that rocks adjacent to the argillites are strongly sericitized and often mineralized with disseminated pyrite and quartz veinlets. These geological conditions suggest that gold mineralization may occur in these areas.

Hole MK97-25 and MK97-26 were the exceptions to the above. Hole MK97-25 tested an IP anomaly and intersected a 17.25m section of strongly sericitized and ankeritized greywackes containing strong quartz-ankerite veins, up to 3% pyrite and local traces of arsenopyrite and sphalerite. Hole MK97-26 intersected several short sections of semi-massive to massive pyrite and pyrrhotite within highly sericitized and variably chloritized felsic tuffs and lapilli-tuffs and

Table 2

## MIKWAM JV - 1997 DRILLING RESULTS

(February 24, 1997)

Hole No.	Northing	Easting	Dip*	Length (m)	From - To	Au gpt/Length	Comments
MK97-18 (H)	-2015	3500	-50	388	107.4-108.1	**	2nd attempt at MK-24 sheared qtz-stringer zone, 1% py
					207.6-224.1		Qtz-ank vein zone w tr-2%py, tr-4% po, in graph. arg.
					237.7-238.1		Qtz breccia vein w 1% py
					254.0-255.5 <del>360.2 - 361.6</del>		Bull qtz vein w tr py Mineralized Zone wk qtz-ank stringers, min py, po, tr-1% asp
MK97-19 (F)	-19+50	3200	-57	551	105.8-107.25		QAV Zone w 3% py, tr po, sph
					208.15-210.8		QV w 1% py, tr asp
					377.9-378.9		QCV w 1% py in graph argillite
					401.15-405.5		QAV, 3% py, min. asp tr po
					450.7-479.4		Mineralized Zone-3200 Vein, Qtz flooding & veining in sulphide zone 1-50% py, tr-5% asp.
MK97-20 (L)	-20+70	2700	-50	278	49.4-57.1		Highly seric-ank altered argillite/siltstone w qtz veins/stringers, 1-3% py throughout
					145.1-149.65		50-80% nodular pyrite in graph argillite
					209.7-212.8		QAV Zone, min-2% py in argillite/siltstone.
					264.6-265.2		40% qtz, 20% py replacing magnetite in IF chl
MK97-21 (M)	-2265	1950	-50	359	32.0-68.5		Strongly seric-ank altered, sheared sediments w QA veins & stringers, tr-5
					85.3-85.6		Massive, bedded py in graph. argillite
					96.1-96.4		As above
					112.5-115.2		QV Zone, 3-5% py, tr cpy, tr sph
					164.0-164.9		QA Brx vein 1% py
MK97-22 (D)	-2070	3100	-50	319	82.5-85.8		Sheared IFchl, Min - 5% qtz 1% py, tr asp
					163.7-168.1		1-2% py, po, min asp, tr sph in seric'd argillite.
					178.8-188.7		min -5% py, min -3% po in seric'd greywacke.
					198.8-204.6		po replacement of py nodules in argillite, 1-70% py, min-4% po
					222.3-224.4		Wk QAV zone w tr-1% asp, tr po, tr-1%
MK97-23 (C)	-2100	3300	-50	401	272.0-273.5		Tr asp, 1% py in IFchl
					294.5-319.7		Mineralized Zone, 3200 Vein Qtz flooding, veining and sulphidization 1-8% asp, 5-50% py QAV's w tr min asp, 1-2% py
MK97-24 (H)	-1985	3500	50	140			Stopped due to excessive steepening

**Table 2 (cont.)**

Hole No.	Northing	Easting	Dip*	Length (m)	From - To	Au gpt/Length	Comments
MK97-25 (G)	-2300	4000	-50	201	131.9-132.3		QAV 3% py
					150.0-150.9		QAV zone, 1% py, tr sph, ga
					165.8-179.0		QA stringer zone, min-2% py, tr sph, as
MK97-26 (K)	-1470	4400	-50	410	61.3-61.7		QAV, 1% py, min po
					71.0-99.3		Felsic tuff/lapilli-tuff w min to semi-massive py, tr-5% po
					110.0-113.0		Felsic tuff, 5-15% py, tr-1% po
					119.2-120.2		QAV zone, 6% py, tr po, sph, 5% brown tourmaline
					142.25-142.7		QVC w black tourmaline
					176.8-177.6		QAV, 4% py, 1% po, min asp tr sph, cp
					187.35-189.6		Massive py-po
MK97-27 (J)	-1550	5600	-55	277	69.1-87.8		Qtz stringer zone: 10-50% qtz, 1-3% diss py in argillite
					156.0-160.0		QV w 1-2% py, tr po QAV w 2% py 10% qtz, 2% py, tr cpy, tr bornite.
MK97-28	-750	6700	-50	346.4	69.1-69.8		QAV, 5% py, tr asp
					123.2-123.4		QAV w tour, 2% py
					133.45-134.65		QAV zone, 1-5% py
					141.3-141.85		QAV, 5% py
					147.55-147.9		QAV w tour, 2% py
					159.5-159.75		QAV w tour, 3% py
					216.2-217.3		QAV, 1% py, tr po
310.9-311.15		massive py, tr po					
<b>Total 11 Holes</b>				<b>3670.4</b>			

\* All holes drilled at 180 Degrees Azimuth. \*\* All assays pending

sediments. Wide sections of 1 to 5% disseminated pyrrhotite and pyrite are found in these host rocks.

Sections of significant quartz and/or sulphide mineralization are summarized in Table 2

### **Discussion of Results**

For the most part, the various objectives of the 1997 drill program were achieved. As assays are not available at this time, all conclusions are based upon visual examinations of the drill core. Of the 3 holes drilled to test the 3200 Vein, 2 intersected significant widths of mineralization similar to that which returned significant values in 1994. This greatly increases the potential of this area to host a significant gold orebody. This zone is now known to occur from approximately 110m to 385m vertical depths and for a total strike length of approximately 210m. The other hole in this area intersected only weak pyrrhotite-pyrite-arsenopyrite mineralization. This may be the extension of the 3200 Vein, but is probably above the plunge of interesting gold values.

Hole MK97-18, drilled to explore for a repetition of the 3200 Vein to the east, likewise intersected weak arsenopyrite mineralization. Since this intersection is located approximately 200m from any previously known gold values, encouragement should be taken. Also the very strong sericite-ankerite alteration encountered in this hole may indicate proximity to a mineralized zone.

The HLEM conductors tested by holes MK97-20, 21, and 28 are all explained by wide sections of graphitic argillite. However, each of these holes intersected highly sericite-ankerite altered sediments with local quartz-pyrite mineralization before entering the graphitic argillite. In the case of MK97-20 and 21 the full width of this alteration is not known as the hole collared in the alteration. Any anomalous gold values from these holes should be considered encouraging and more drilling should be done to further test these areas.

Hole MK97-25 tested an IP anomaly to the southeast of the A8 area. The anomaly is explained by a quartz-ankerite vein zone containing up to 2% pyrite, trace sphalerite and trace arsenopyrite, from 165.8 to 179.0m.

Hole MK97-26 intersected wide sections of sericite-ankerite altered felsic tuffs and lapilli-tuffs, mineralized with disseminated pyrite and pyrrhotite. Quartz-ankerite veins containing "spongy" textured pyrite similar to the 3200 Vein are widespread in this hole. Locally, these sulphides form semi-massive to massive zones, as at 187.35 to 189.6. Pressacco (1994) noted that pyrrhotite mineralization occurs on the edge of the 3200 Vein and rarely produced grades in excess of 3gpt Au. Thus any anomalous gold values in this hole should be followed up with more diamond drilling, as better grade material may be nearby.

Hole MK97-27 was drilled to follow up anomalous gold values in hole MK92-5. A wide zone of quartz-ankerite stringers and disseminated pyrite mineralization was found in argillite and

greywacke from 90.3m to 193.4m. Trace bornite was found in a quartz stringer at 193m. The remainder of the hole had little or no mineralization. Again, any anomalous gold values would provide a target to be followed up with future drilling.

### **Recommendations**

Although this report was written without the benefit of assay data, the following recommendations can nonetheless be made.

1. Much more work needs to be done on the 3200 vein. Pending assays, a minimum of 2900m should be drilled to further test this target at depth and along strike.
2. Regardless of assays, favourable alteration was intersected in holes MK97-20, 21, 26 and 28 in virtually unexplored areas of the property. Approximately 2400m of diamond drilling should be allocated to further testing these areas
3. A number of other areas, remote from the 3200 Vein remain to be drill tested. A minimum of 2500m should be drilled on these targets.
4. The total cost of gaining access to the property in the current program was approximately \$100,000, including mobilization, demobilization, fees paid to Tembec, road building and maintainance. Long term cost savings could be achieved by conducting the total recommended 7800m of drilling in one program, allowing more money to be put into the ground. This would have the added advantage of spreading actual work onto a greater number of claims, thus making it easier to hold the property.



## References

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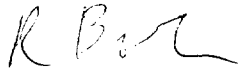
Pressacco, R. (1994)

Mikwam Joint Venture-Technical Report on the 1994 Diamond Drill Program and Proposed 1995 Exploration Budget (internal document-Royal Oak Mines Inc.)

### **Certificate of Qualifications**

I, Rodney Alan Barber, residing at 119 Lois Crescent, Timmins, Ontario, do hereby certify that:

1. I hold the degree of Bachelor of Science (Honours) in geology, obtained from Laurentian University, Sudbury, Ontario in 1988.
2. I have practiced my profession since 1988.
3. I personally supervised and conducted the work forming the subject of the preceding report.
4. That the information contained in this report is true and accurate to the best of my knowledge.
5. I hold no direct interest in the Mikwam Joint Venture, nor do I expect to receive any compensation, other than salaries, for this report.



**Rodney Barber**  
**Project Geologist**  
**Eastern Canada Exploration**  
**Royal Oak Mines Inc.**

**Appendix I**  
**List of Claims**

## SCHEDULE A

### CLAIM LIST

<u>Bradette Twp., Ontario</u>	L591375-378 incl.	( 4)
	L591380-394 incl.	(15)
	L624881-884 incl.	( 4)
	L633372-411 incl.	(40)
	L633452-491 incl.	(40)
	L633628-634 incl.	( 7)
	L633637-638 incl.	( 2)
	L634392-394 incl.	( 3)
	L636955-962 incl.	<u>( 8)</u>
	123	
<u>Hoblitzell Twp., Ontario</u>	L628595-630 incl.	(36)
	L628634-684 incl.	<u>(51)</u>
		87
<u>Noseworthy Twp., Ontario</u>	L624885-900 incl.	(16)
	L624981-990 incl.	(10)
	L628685-694 incl.	(10)
	L633106-107 incl.	( 2)
	L633130-132 incl.	( 3)
	L633269-273 incl.	( 5)
	L633312-371 incl.	(60)
	L633412-451 incl.	(40)
	L633548-566 incl.	(19)
	L633627	( 1)
	L633641-656 incl.	(16)
	L634364-391 incl.	(28)
	L733738-758 incl.	(21)
	L733761	( 1)
	L784535-536 incl.	( 2)
	L810232-273 incl.	(42)
	L814606-615 incl.	(10)
	L839437-475 incl.	(39)
	L839487-527 incl.	<u>(41)</u>
	366	
<u>Dieppe Twp., Quebec</u>	420620, 1-5 incl.	( 5)
	420621, 1-5 incl.	( 5)
	420622, 1-2 incl.	<u>( 2)</u>
	12	
	<b>GRAND TOTAL</b>	<b>588</b>
	<b>TOTAL ACRES</b>	<b>24,042 (9,729 hectares)</b>

Appendix II  
Summary Logs

## Summary Log

**Hole Number:** MK97-18

**Date Drilled:** Feb. 25 - Feb 28, 1997, Mar 4- Mar 5, 1997

**Drilling Contractor:** Bradley Bros., Rouyn - Noranda, Quebec

**Township:** Noseworthy

**Claim Number (s):** 633434

**Collar Co ordinates:** L35+00E, 20+15S, Az 180; Dip -50°

**NTS Co ordinates:** 0592612N, 5483163E

**Length:** 388

**Casing:** 103m BW, 61m NW (103m BW, 37m NW left in hole).

**Purpose:** 30m move to south after MK97-24 abandoned.  
Test for repetition of 3200 Vein

**Logged by:** R. Barber

**Core Storage:** Timmins, Royal Oak Mines Inc. core facility.

**Number of Samples:** 148

**Results:** Relatively thick sections of carbonaceous argillite and conglomerate were intersected, with thin interbedded chloritic iron formation units. Weak quartz-arsenopyrite mineralization occurs at 360.2-361.6. Hole stopped in sericitized and weakly fuchsitic argillite and greywacke.

## Summary Lithologies MK97-18

- 0-103 Casing
- 103-182.5 Carbonaceous Argillite  
107.9-116 Fault Zone  
142.8-150.2 Quartz-calcite stringer zone: 1-17% quartz-calcite stringers with trace to minor pyrite. Local brown dendritic tourmaline.  
167.8-174.7 Quartz-calcite stringer zone: 1-30% quartz-calcite stringers, trace to minor pyrite, local trace sphalerite. Possible fold nose.
- 182.5-198.1 Sericitized Argillite
- 198.1-228.75 Carbonaceous Argillite  
207.6-224.1 Mineralized Zone: 2-90% foliation-parallel quartz-ankerite veins with minor- 2% pyrite, trace-4% pyrrhotite and local trace sphalerite. Pyrite is locally spongy.
- 228.75-232 Chloritic Iron Formation: Interbedded ferruginous argillite, cherty tuff and 0-10% magnetite. Local trace- 2% disseminated pyrite and minor pyrrhotite. Local quartz-ankerite stringers.
- 232.0-234.76 Carbonaceous Argillite
- 234.76-235.26 Chloritic Iron Formation: As 228.75-232. 5% magnetite, 2% disseminated pyrite and minor pyrrhotite.
- 235.26-236.2 Carbonaceous Argillite
- 236.2-255.55 Chloritic Iron Formation: As 228.75-232. 0-10% magnetite.
- 255.55-263.54 Argillite/Siltstone: Weak calcite-chlorite alteration.
- 263.54-354.4 Conglomerate: Polymictic, heterolithic, weak calcite-chlorite alteration.
- 354.4-363 Argillite/Greywacke: Moderate to strong sericite-ankerite and sericite-chlorite alteration. 1-20% quartz stringers, trace-minor pyrite.  
360.2-361.6 Mineralized Zone: Sheared argillite with 5% quartz-ankerite stringers, minor disseminated pyrite, pyrrhotite and minor-1% disseminated arsenopyrite.
- 363-365.6 Sheared Conglomerate: Locally resembles a lapilli-tuff
- 365.6-371.76 Argillite

- 371.76-376.6 Sheared Conglomerate: Clasts stretched up to 20:1. Unit locally resembles argillite.
- 376.6-379 Argillite
- 379-381.3 Argillite/Chloritic Iron Formation: Mixed argillite, ferruginous argillite and cherty tuffs. No magnetite.
- 381.3-385.4 Quartz Eye Greywacke
- 385.4-387 Argillite/Chloritic Iron Formation: As 379-381.3.
- 387-387.9 Argillite/Greywacke
- 388 End of Hole



## Summary Log

**Hole Number:** MK97-19

**Date Drilled:** Feb 11 - Feb 19, 1997

**Drilling Contractor:** Bradley Bros., Rouyn-Noranda, Quebec

**Township:** Noseworthy

**Claim Number (s):** L633437, L633438

**Collar Co ordinates:** L32+00E, 19+50S, Az 180, Dip -57°

**NTS Co ordinates:** 0592297N, 5483270E

**Length:** 551m

**Casing:** 46m BW, 37m NW, (28m NW, 20BW left in hole)

**Purpose:** Test for extension at 3200 Vein at depth.

**Logged by:** E. Geneau

**Core Storage:** Timmins, Royal Oak Mines Inc. core facility

**Number of Samples:** 280

**Results:** Highly sericitized and ankeritized sediments from 266.5m to 551.0m. Significant quartz veins/mineralized zones at 105.8-107.25, 208.15-210.80, 377.90-378.90, 401.15-402.50. 3200 Vein Zone intersected at 450.70-479.40.

## Summary of Lithologies MK97-19

0-46.3	Casing
46.3-219.8	Carbonaceous/Graphitic Argillite 105.8-107.25 Quartz - ankerite vein zone with 3%, pyrite, trace pyrrhotite, minor white mica. 208.15-210.8 Quartz vein with graphitic inclusions, 1% stringer pyrite, trace arsenopyrite.
219.8-251.5	Chloritic Iron Formation: Mixed ferruginous sediments, cherty tuff and magnetite bands. % magnetite not noted.
251.5-265.3	Graphitic Argillite
265.3-270.7	Chloritic Iron Formation As 219.8-251.5
207.7-302.1	Argillite/Siltstone
302.1-350.7	Conglomerate: Polymictic, heterolithic, locally sheared.
350.7-380.4	Argillite 377.9-378.9 Quartz-calcite vein. 1% pyrite in calcite vugs
380.4-404.0	Chloritic Iron Formation: As 219.8-251.5 401.15-405.5 Quartz-ankerite vein with chloritic inclusions. 3% pyrite, trace pyrrhotite, minor arsenopyrite.
404-450.7	Argillite: highly sericitized and ankeritized.
450.7-479.4	Mineralized Zone: 3200 Vein: Qtz flooding and veins with 1-50% pyrite and minor - 5% arsenopyrite
479.4-542.5	Conglomerate
542.5-551	Quartz Eye Greywacke: Sericitized and ankeritized throughout.
551	End of Hole

## Summary Log

**Hole Number:** MK97-20

**Date Drilled:** Feb. 13 - Feb. 16, 1997

**Drilling Contractor:** Bradley Bros., Rouyn Noranda, Quebec

**Township:** Noseworthy

**Claim Number (s):** L633440

**Collar Co ordinates:** L27+00E, 20+65S, Az 180; Dip -51°

**NTS Co ordinates:** 0591798N, 5483148E

**Length:** 278m

**Casing:** 50m BW, 50m NW, all casing left.

**Purpose:** Test thickening of HEM anomaly on an east-west flexure, 400m west of 3200 Vein.

**Logged by:** R. Barber

**Core Storage:** Timmins, Royal Oak Mines Inc. core facility

**Number of Samples:** 156

**Results:** Strongly sericitized and ankeritized sediments from 49.0 to 57.5. Local arsenopyrite in quartz-ankerite stringer zone from 206.60-215.7. Pyrite replaces magnetite in a quartz flooded zone in chloritic iron formation from 264.6-265.2. EM anomaly due to graphitic argillite from 57.5-149.65.

## Summary Lithologies MK97-20

0-49.0	Casing
49.0-57.5	Highly Sericitized and Deformed Sediments (Argillite/Siltstone) Strongly foliated, sericitized and ankeritized. Local boudinaged quartz stringers. 1-2% fine disseminated pyrite throughout.
57.5-149.65	Graphitic Argillite/Siltstone
68.3-69.5	Fault Breccia: Quartz-calcite vein fragments in graphitic matrix.
123.1-129.9	Sericitized Siltstone/Argillite: contorted bedding throughout, 2% fine disseminated pyrite.
145.1-149.65	Semi-Massive Nodular Pyrite: 50-80% nodular pyrite in graphitic and calcitic matrix.
149.65-169.3	Carbonaceous Argillite: Wispy quartz-ankerite/dolomite stringers throughout
169.3-171.3	Sericitized Argillite: Trace to minor, fine, yellowish leucoxene.
171.3-235.6	Argillite/Siltstone
206.6-215.7	Quartz-Ankerite Stringer Zone: Up to 80% quartz-ankerite, minor-pyrite, trace sphalerite, local 1% arsenopyrite stringers.
227.8-229.7	Highly Deformed Zone: Bedding cut by M-folded quartz stringers, which are cut by quartz veinlets parallel to the axial plane of the M-folds.
235.6-278	Chloritic Iron Formation: Dark green ferruginous argillite with tan cherty tuff bands, 0-50% magnetite
244.8-246.9	Quartz Flooded Zone: contorted zone of mixed ferruginous argillite and cherty tuff. Up to 30% quartz; 1-5% pyrite stringers and trace to minor disseminated arsenopyrite.
264.6-265.2	Well Mineralized Zone: Pyrite replacing magnetite, quartz flooded.
278	End of Hole

## Summary Log

**Hole Number:** MK97-21

**Date Drilled:** Feb. 20,-Feb. 24, 1997

**Drilling Contractor:** Bradley Bros., Rouyn-Noranda, Quebec

**Township:** Noseworthy

**Claim Number (s):** L633443, L633444

**Collar Co ordinates:** 19+50E, 22+65S, Az 180; Dip -50°

**NTS Co ordinates:** not taken

**Length:** 359m

**Casing:** 31m BW, 31m NW, BW pulled, NW left, casing making water

**Purpose:** Test area between two strong HEM anomalies, possibly folded and/or altered sediments.

**Logged by:** R. Barber

**Core Storage:** Timmins, Royal Oak Mines Inc core facility

**Number of Samples:** 119

**Results:** Sericite-ankerite schist (deformed sediment) at 32 to 55.7. Mineralized, sericitized sediments with up to 15% pyrite from 55.7 to 68.5. EM anomalies caused by graphitic argillite with local bedded or nodular pyrite. Possibly near a fold nose, as many small folds seen in core.

## Summary of Lithologies MK97-21

- 0-32 Casing
- 32-55.7 Sericite-Ankerite Schist: Probably a highly deformed and altered argillite.  
50-55.7 Graphitic Fault Zone: Very broken, 3.3m of lost core. A major fault.
- 55.7-68.5 Mineralized Sediments: Sericitized and ankeritized, 2-15% disseminated and fracture-filling pyrite.
- 68.5-159.5 Graphitic Argillite: 10% nodular, disseminated, bedded and stringer pyrite. Calcite pressure shadows and local pull-apart structures present.  
85.3-85.6 Massive Pyrite Bed  
96.18-96.4 Massive Pyrite Bed  
109.5-115.2 Quartz Vein/Stringer Zone: 1 to 70% quartz stringers at low angles to core. 3-5% disseminated, coarse pyrite, trace sphalerite and chalcopyrite.  
156.5-156.7 Graphitic Gouge: Strong fault.
- 159.5-192.4 Mixed Siltstones and Argillite  
164.0-164.9 Quartz-ankerite Vein: Breccia vein with 10% light green mineral (sericite ?), 1% pyrite, 80% quartz.
- 192.4-232.7 Graphitic Argillite: Much as 68.5-159.5 but with more silty beds and no bedded pyrite.
- 232.7-359 Siltstone/Argillite: carbonaceous throughout. Silty beds 0.5-1.0m thick with local flame structures suggesting tops uphole. Locally deformed, with small scale folds in bedding.  
254.7-294.2 Graphitic Argillite: 2-5% nodular and S folded, bedded pyrite  
337.9-339 Cherty bed with quartz-calcite stockwork: minor to 1% pyrite.

## Summary Log

**Hole Number:** MK97-22

**Date Drilled:** Feb. 16-Feb. 20, 1997

**Drilling Contractor:** Bradley Bros., Rouyn Noranda, Quebec

**Township:** Noseworthy

**Claim Number (s):** L633437

**Collar Co ordinates:** L31+00E, 20+70S, Az 180°, Dip -50°

**NTS Co ordinates:** 0592160N, 5483106E

**Length:** 319m

**Casing:** 61m BW, 43m NW, BW left, NW pulled. Casing making water. Later pumped from casing for holes MK97-24, 18

**Purpose:** Test possible west plunge direction of 3200 Vein

**Logged by:** R. Barber

**Core Storage:** Timmins, Royal Oak Mines Inc. core facility

**Number of Samples:** 154

**Results:** Hole intersected chloritic iron formation, followed by a complex, probably folded, sequence of argillite, conglomerate and quartz-eye greywacke. Weak pyrite-pyrrhotite-arsenopyrite mineralization intersected at 163.7-168.1, 178.8-188.7 and 222.3-224.4. A quartz-ankerite breccia vein at 267-268.4 may represent the 3200 vein in this area.

## Summary of Lithologies MK97-22

0-61	Casing
61-124	Chloritic Iron Formation/Cherty Tuff: 0-90% magnetite interbedded with ferruginous argillite and tan cherty tuffs. Up to 2% fracture filling pyrite 82.5-85.8 Sheared zone with 2% quartz stringers, 1% pyrite, trace arsenopyrite
124-126.9	Sheared Argillite: strongly chloritic, 15-20% quartz stringers parallel to foliation. 1-2% pyrite
126.9-142.8	Conglomerate: Locally highly sheared, up to 10% quartz stringers, trace to 1% pyrite. Polymictic, heterolithic, matrix supported.
142.8-152.8	Sericitized Argillite/Siltstone: strongly sericitized, light grey-green, trace to 5% quartz-ankerite stringers parallel to foliation. Trace to 1% pyrite
152.8-154.6	Conglomerate: As 126.9-142.8
154.6-158.1	Sericitized Argillite/Siltstone: As 142.8-152.8
158.1-192.9	Quartz-Eye Greywacke: Strongly sericitized matrix, 5-15% quartz eyes 163.7-168.1 Weakly Mineralized Zone: 1-2% pyrite pyrrhotite, local arsenopyrite in quartz-ankerite stringer zone, 1-10% quartz stringers 178.8-188.7 Quartz/Sulphide Rich Unit: 25% quartz eyes, 2-5% pyrite/pyrrhotite beds and clasts
192.9-204.6	Graphitic Argillite: Up to 40% contorted quartz stringers throughout 193.15-196.3 Quartz-ankerite vein: 1-2% fracture filling and stringer pyrite in vein and quartz-flooded shear breccia 198.3-198.8 Semi-massive, cubic, pitted pyrite
204.6-240.3	Greywacke/Quartz Eye Greywacke: As 158.1-192.9 222.3-224.4: Weak Quartz Vein Zone: Trace to minor pyrite, pyrrhotite, arsenopyrite, 10-20% quartz.
240.3-244	Argillite: weakly sericitized. Sheared and contorted near lower contact.
244-247.6	Conglomerate: As 126.9-142.8 but strongly sericitized.
247.6-254	Greywacke: Fine grained, foliated, moderately sericitized, homogeneous grey-green rock.
254-257.9	Conglomerate: As 126.9-142.8. Many cherty clasts, minor fuchsite



- 257.9-259.9 Quartz Eye Greywacke: Much as 158.1-192.9, 5-10% quartz eyes, 1% elongate pyrite-po clasts
- 259.9-269.3 Argillite: Initially chloritized, grading into sericitized argillite.  
267-268.4 Quartz-ankerite breccia vein. 60% quartz with bluish-grey wallrock fragments. Minor pyrite, sphalerite.
- 269.3-281.8 Quartz Eye Greywacke: As 158.1-192.9
- 281.8-288.5 Argillite/Siltstone: Siltstone beds up to 0.5m thick. Locally sheared. Trace to minor disseminated pyrite.
- 288.5-319 Quartz Eye Greywacke: As 158.1-192.9. Local quartz-ankerite stringers, up to 30% quartz. Local 1% pyrite, trace pyrrhotite.
- 319 End of Hole

## Summary Log

**Hole Number:** MK97-23

**Date Drilled:** Feb. 19-Feb. 23, 1997

**Drilling Contractor:** Bradley Bros., Rouyn Noranda, Quebec

**Township:** Noseworthy

**Claim Number (s):** L633437

**Collar Co ordinates:** L32+00E, 21+00S, Az 180°, Dip -50°

**NTS Co ordinates:** 0592439N, 5483118E

**Length:** 401m

**Casing:** 49m BW, 46m NW, 19m BW, 16m NW left in hole

**Purpose:** 100m stepout below MK94-17, 100m east of MK94-15 to test for potential east rake of 3200 Vein. Test eastern limit of 3200 Vein.

**Logged by:** E. Geneau

**Core Storage:** Timmins, Royal Oak Mines Inc. core facility

**Number of Samples:** 130

**Results:** This hole intersected unusually thick sections of argillite, graphitic argillite and chloritic iron formation. It is not certain whether this thickening is due to stratigraphic changes or folding. Arsenopyrite and pyrite are found with quartz-ankerite stringers at 272.0-273.5. The 3200 vein was intersected at 294.5-319.7.

## Summary of Lithologies MK97-23

0-49.0	Casing
49-189.2	Argillites/Siltstone: Includes sections of graphitic argillite up to 42m long. Locally contorted and sheared.
189.2-294.5	Chloritic Iron Formation: Dark green ferruginous argillite with 0-50% magnetite, local cherty-tuff interbeds. 2-25% quartz-ankerite stringers and veins throughout. 272-273.5: Trace arsenopyrite and 1% pyrite in magnetite beds.
294.5-319.7	Mineralized Zone: 3200 Vein, quartz flooding and veins with 1-12% pyrite, minor to 8% arsenopyrite, and 5-80% quartz..
319.7-401.0	Argillite 321-322 2% pyrite, minor arsenopyrite in highly graphitic matrix. 20% vein quartz in section.
401	End of Hole

## Summary Log

**Hole Number:** MK97-24

**Date Drilled:** Feb. 23-Feb. 25, 1997

**Drilling Contractor:** Bradley Bros., Rouyn Noranda, Quebec

**Township:** Noseworthy

**Claim Number (s):** L633433, L633434

**Collar Co ordinates:** L35+00E, 19+85S, Az 180°, Dip -50°

**NTS Co ordinates:** 0592591N, 5483243E

**Length:** 140m

**Casing:** 104m BW, 55m NW, (104m BW pulled, 16m NW left in hole.)

**Purpose:** Test for repetition of 3200 Vein. Followed up holes 85-A8, 86-14

**Logged by:** R. Barber

**Core Storage:** Timmins, Royal Oak Mines Inc. core facility

**Number of Samples:** 17

**Results:** Hole intersected only carbonaceous argillite. Overburden depth is unusual for the area. Hole steepened 10° in overburden and would not have hit the desired target area. The hole was therefore stopped and MK97-18 drilled to test the same target.

### Summary of Lithologies MK97-24

0-104	Casing
104-139.2	Carbonaceous Argillite: Dark grey, locally graphitic, weakly to moderately sericitized.
139.2	End of Hole : Abandoned due to steepening of dip

## Summary Log

**Hole Number:** MK97-25

**Date Drilled:** Feb. 24-Feb. 25, 1997

**Drilling Contractor:** Bradley Bros., Rouyn Noranda, Quebec

**Township:** Noseworthy

**Claim Number (s):** L633430

**Collar Co ordinates:** L40+00E, 23+00S

**NTS Co ordinates:** 0593129N, 5482856E

**Length:** 201m

**Casing:** 45m BW, 45m NW, all casing pulled.

**Purpose:** Test IP anomaly to southeast of A8 area.

**Logged by:** E. Geneau

**Core Storage:** Timmins, Royal Oak Mines Inc. core facility

**Number of Samples:** 68

**Results:** *The entire hole intersected quartz-eye greywacke with local interbedded argillite and conglomerate. Variable sericite alteration is present throughout. Significant quartz-ankerite veins are found at 131.9-132.3 and 150.0-150.9. A quartz-ankerite stringer/vein zone at 165.8-179.0 contains minor to 2% pyrite, trace sphalerite and trace arsenopyrite and is likely the cause of the IP anomaly.*

## Summary of Lithologies MK97-25

0-45	Casing
45.0-201.0	Quartz-Eye Greywacke 131.9-132.3 Quartz-ankerite vein, 3% pyrite, 50% white to grey quartz. 150-150.9 Quartz-ankerite vein, 1% pyrite, trace sphalerite, galena, 10-60% quartz 165.8-179 Quartz-ankerite stronger zone, up to 2% pyrite , trace sphalerite, arsenopyrite, minor to 55% quartz.
201	End of Hole

## Summary Log

**Hole Number:** MK97-26

**Date Drilled:** Mar. 1-Mar. 4, 1997

**Drilling Contractor:** Bradley Bros., Rouyn Noranda, Quebec

**Township:** Noseworthy

**Claim Number (s):** L633427, L633428

**Collar Co ordinates:** L44+00E, 14+70S, Az 180°, Dip -50°

**Length:** 410m

**Casing:** 31m BW and NW. All BW pulled, NW left.

**Purpose:** Test folded magnetic anomaly and extension of ser-ank-quartz schist in hole 86-18.  
Possible repetition of 3200 Vein setting.

**Logged by:** R. Barber

**Core Storage:** Timmins, Royal Oak Mines Inc. core facility

**Number of Samples:** 228

**Results:** Most of the hole consists of variably sericitized and chloritized felsic tuffs and lapilli-tuffs. 1-2% disseminated pyrite and/or pyrrhotite are present throughout these rocks, as well as quartz-ankerite veins. Several sections of more concentrated mineralization were encountered, including semi-massive to massive pyrite and pyrrhotite at 187.35-189.6.



## Summary of Lithologies MK97-26

- 0-31 Casing
- 31-40.1 Tuffaceous Sediments: Moderately sericitized and chloritized, strongly foliated. Trace-5% disseminated pyrite and pyrrhotite.
- 40.1-79 Felsic Tuff/Lapilli-tuff: Chloritized, sericitized and weakly mineralized with minor-60% quartz, trace-5% pyrite and pyrrhotite
- 79-84.9 Mineralized Zone: 10-80% pyrite/pyrrhotite in highly sericitized felsic tuff/lapilli tuff. Local 10-15% quartz stringers.
- 84.9-101.95 Felsic Tuff/Lapilli-tuff: Much as 40.1-79.0. Locally up to 10% combined pyrite, pyrrhotite.
- 101.95-110 Graphitic Argillite: Very broken core. Black argillite with some silty bands. 5% pyrite.
- 110-130.95 Felsic Tuff/Lapilli-tuff: Much as 40.1-79.0  
119.2-120.2 Quartz-ankerite-tourmaline vein: 6% spongy pyrite, trace pyrrhotite, sphalerite, 5% brown tourmaline, 35% quartz.
- 130.95-169.45 Intermediate Tuff: strongly chloritized with local quartz veins up to 0.3m long. Minor-7% combined pyrite, pyrrhotite.  
167.2-167.6 Gouge/Fault Zone
- 169.45-187.35 Felsic Lapilli-Tuff: Moderately sericitized with hairline chlorite parallel to foliation. Fragments stretched up to 10:1  
176.8-177.6 Quartz-ankerite vein, 4% pyrite, 1% pyrrhotite, trace chalcopyrite, sphalerite, minor arsenopyrite, 75% quartz, 10% ankerite.
- 187.35-189.6 Mineralized Zone: Semi-massive to massive spongy pyrite and pyrrhotite vein. Overall 70% sulphides with wallrock inclusions and up to 15% breccia-textured quartz.
- 189.6-197.2 Felsic Lapilli-tuff/Tuff: Much as 169.45-187.35 but with a larger lapilli component. 1-20% quartz stringers, 2-12% pyrite/pyrrhotite.
- 197.2-206.15 Carbonaceous Argillite/Siltstone: Dark grey, locally graphitic. Silt beds appear tuffaceous.

- 206.15-219.0 Felsic Tuff/Lapilli-tuff: Much as 169.45-187.35 but highly sulphidic. Minor quartz stringers, 2-50% pyrite-pyrrhotite stringers and disseminations.
- 219.0-243.3 Chloritic Sediments: Strongly chloritic and calcitic, massive greywacke.  
237.4-237.9 Fault Zone
- 243.3-251.45 Quartz-Phyric Dacite: Possibly a dyke. Strongly sericitized with 5-10% glassy quartz-eyes.
- 251.45-258.35 Chloritic Sediments: As 219.0-243.3 but with 5-10% quartz eyes.
- 258.35-262.50 Quartz-Phyric Dacite: As 243.3-251.45 with up to 10% feldspar phenocrysts.
- 262.5-280.3 Mixed Dacite Tuffs: Mixed section of sediments as 251.45-258.35 and dacite as 258.45-262.50.
- 280.3-292.75 Felsic Tuff: Strongly foliated, sericitized and variably chloritized and ankeritized. Up to 2% quartz phenocrysts locally.  
281-284.12 Mineralized Zone: strongly chloritized and ankeritized, with quartz-pyrite veins, 3-50% pyrite, 10-30% quartz.
- 292.75-303.35 Siltstone/Argillite
- 303.35-375.35 Argillite/Siltstone: As 292.75-303.35 but with more argillite. Essentially not altered.  
333.6-335.3 Quartz-calcite stringer zone, up to 1% pyrite, 2% pyrrhotite, minor sphalerite, up to 65% quartz-calcite.
- 375.35-387.4 Sericitized Argillite: Highly sheared, intensely sericitized. Minor-25% quartz ankerite stringers parallel to foliation.  
377-380.3 Quartz-ankerite vein zone, up to 30% pyrite 15% pyrrhotite and 30% quartz. Locally graphitic.  
386.6-387.4 Quartz-ankerite vein, 1% pyrite, trace yellow sphalerite, 55% quartz, 20% ankerite.
- 387.4-399.4 Greywacke: Strongly sericitized, strongly foliated. 1-2% pyrite, 1-5% quartz.
- 399.4-410 Graphitic Argillite: Black, strongly foliated to contorted. Up to 45% quartz-calcite stringers, up to 10% pyrite and 7% pyrrhotite.
- 410 End of Hole

## Summary Log

**Hole Number:** MK97-27

**Date Drilled:** Feb. 25-Feb. 28, 1997

**Drilling Contractor:** Bradley Bros., Rouyn Noranda, Quebec

**Township:** Noseworthy

**Claim Number (s):** L633415, L633416

**Collar Co ordinates:** L56+00E, 15+50S, Az 180°, Dip -50°

**NTS Co ordinates:** 0594640N, 5483708E

**Length:** 277m

**Casing:** 52m BW, 52m NW, all casing pulled

**Purpose:** Test stratigraphy to south of MK92-5 (strong folding and 160 ppb Au/35.0m) Follow up Au-As dispersal train in OB holes

**Logged by:** E. Geneau

**Core Storage:** Timmins, Royal Oak Mines Inc. core facility

**Number of Samples:** 151

**Results:** The hole intersected a sequence of graphitic argillite, argillite, conglomerate and quartz-eye greywacke. Trace to minor amounts of disseminated pyrite and quartz-ankerite stringers occur throughout the hole. Concentrations of pyrite up to 2-3% are found in all units. A quartz stringer zone at 69.1-87.8 may be an extension of the anomalous gold mineralization in hole MK92-5. Significant quartz veins also occur at 156.0-160.0 and 184.6-185.5.

## Summary of Lithologies MK97-27

0-51.8	Casing
51.8-114.8	Argillite/Graphitic Argillite: Mixed carbonaceous and graphitic argillite. Minor to 2% disseminated pyrite bedded pyrite.
114.8-134.2	Quartz-Eye Greywacke: Weakly sericitized matrix. 1-20% quartz stringers and minor-2% disseminated pyrite throughout.
134.2-160	Conglomerate: Weakly sericitized, polymictic, heterolithic. 156-160 Quartz-sericite vein, 2% pyrite, trace pyrrhotite, 80-90% quartz.
160-173.3	Greywacke: Carbonaceous and carbonatized, locally sericitized 5-25% quartz stringers, 1-3% pyrite.
173.3-177.7	Graphitic Argillite: Highly graphitic, deformed, contorted texture.
177.7-185.8	Foliated Greywacke/Argillite: Foliated and weakly brecciated. Quartz eyes in greywacke. 184.6-185.8 Quartz Vein Zone, 2% pyrite, 60% quartz.
185.8-277.0	Quartz Eye Greywacke: As 114.8-134.2, moderately to strongly sericitized. Minor-3% disseminated pyrite, minor-30% quartz stringers.
277.0	End of Hole

## Summary Log

**Hole Number:** MK97-28

**Date Drilled:** Feb. 28-Mar 4, 1997

**Drilling Contractor:** Bradley Bros., Timmins Ontario

**Township:** Noseworthy

**Claim Number (s):** L624889

**Collar Co ordinates:** L61+00E, 7+25S, Az 180°, Dip -50°

**NTS Co ordinates:** Not measured

**Length:** 346.4m

**Casing:** 43m BW, 33m NW, (BW left, NW pulled.)

**Purpose:** Test 1.5km long HEM anomaly. 600m stepout from As dispersal train in OB.

**Logged by:** E. Geneau

**Core Storage:** Timmins, Royal Oak Mines Inc. core facility

**Number of Samples:** 242

**Results:** EM anomaly due to graphitic argillite at 167.6-346.4. Sericitized and ankeritized argillite and intermediate lapilli-tuff containing local quartz-ankerite veins and stringers and up to 5% disseminated and stringer pyrite from 69.2-167.6. Significant veins at 69.1-69.8, 123.2-123.4, 133.45-134.65, 141.3-141.85, 147.55-142.9, 149.5-159.75, and 216.2-217.3. A bed of massive pyrite with traces of pyrrhotite occurs in the graphitic argillite at 310.9-311.15.

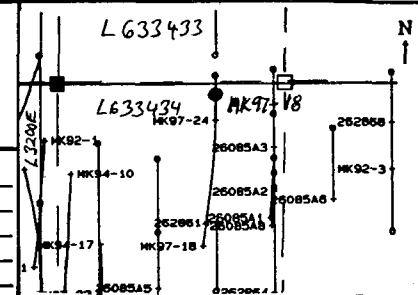
## Summary of Lithologies MK97-28

- 0-43 Casing
- 43-50.4 Sheared Tholeiitic Volcanics: Strongly foliated, fine grained, probably mafic volcanics. Local stretched calcite amygdules. Moderately chloritic and sericitized.
- 50.4-69.2 Amygdaloidal Volcanics: Less sheared than above, strongly chloritized and weakly sericitized. 5-10% calcite amygdules. Possibly originally pillowed.
- 69.2-74.3 Argillite/Greywacke: Foliated and locally brecciated, moderately sericitized. 1-20% quartz-ankerite-calcite stringers and trace to 2% disseminated and stringer pyrite throughout.  
69.1-69.8 Quartz-ankerite vein with 5% pyrite, trace arsenopyrite, 47% quartz-ankerite-calcite
- 74.3-131.07 Lapilli-tuff/Intermediate Volcanics: Medium green, chloritized matrix containing more felsic, grey clasts. Foliated. Trace to minor pyrite and 1-5% quartz-ankerite stringers throughout.  
123.2-123.4 Quartz-ankerite-tourmaline vein with 2% pyrite, 70% white quartz.
- 131.07-167.6 Argillite/Siltstone: Moderate to strong, chlorite-sericite-ankerite alteration, 1-30% quartz-ankerite stringers and minor to 5% pyrite throughout. Local veins and quartz-flooded zones.  
133.45-134.65 Quartz-ankerite-tourmaline vein with 1-5% pyrite, 70% quartz-ankerite overall.  
141.3-141.85 Quartz-ankerite-tourmaline-pyrite vein. Contorted, deformed zone with 5% pyrite, 60% quartz-ankerite.  
147.55-147.9 Quartz-ankerite-tourmaline flooded zone with 2% pyrite, 55% quartz-ankerite.  
159.5-159.75 Quartz-ankerite flooded zone with 3% pyrite
- 167.6-346.4 Graphitic Argillite: Quartz stringers and veins throughout  
216.2-217.3 Quartz-ankerite vein with 1% pyrite, trace pyrrhotite, 65% quartz-ankerite.  
310.9-311.15 Massive pyrite bed with trace pyrrhotite.
- 346.4 End of Hole

## **Appendix III**

### **Diamond Drill Logs**

HOLE #:                      NORTHING: 2015 EASTING:                      ELVN:                      LENGTH:                       
 TWP: Noseworthy Drilled by: Bradley Logged by: R. Barber Start: 25/02/97  
 Claim: L633434 Core Stored: Tinnahs Casing/Size: 103m Bwand NW Finish: 01/03/97



Dist	Azim	Dip	Dist	Azim	Dip	Dist	Azim	Dip	Dist	Azim	Dip
0	180	-50	224	186.5	-47						
104	182	-49.5	284	188	-45.5						
150	183.5	-50	344	188	-44						
164	185	-49.5	388	189	-44.5						

Purpose/Results: Test down-plunge extension of mineralization in 86-AB  
- Weak gte-asp mineralization at 360.2-361.6 148 samples.

Dist	Rock Description						Structure				Alteration Parameters (%)											Wth	Comments		
	Com	GrS	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank		Py	Po	Cpy	Sph	Asp	Mt	RQ			Sampl#	
0																									0-103 Casing
103						CAS																			103-182-5 Carbonaceous Argillite
106.4	B	VF	RUB	GY		S <sub>20</sub> gr	F	50														50	AK35937		grab
107.4	SS		SHD																			30	938		
108.1	SS		SHD				F	20		40												30	939		Sheared gte styr zone, 1% fg disc py.
108.8	B		RUB							1												0	940		
115.6	B		"	BR		F <sub>2</sub>																0	941		
116.3	"		"	"																		0	942		107.9-116 Fault Zone, much lost core. Fg gouge to gravelly & blocky core thru hole
																									107-110 1.2m lost core
																									110-113 1.0m " "
																									113-116 0.7m " "
116.8	S	VF	SHD	GY		S <sub>20</sub> gr	F	20		15				3								70	943		Qtz fg zone w/ dk py
117.8	F						F	50	F	70				5								60	944		mod fld in 2 directions
118.7														5								70	945		





Dist	Rock Description						Structure				Alteration Parameters (%)													Wth	Comments	
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt	RQ	Sampl#				
																										167.8 - 174.7 Wk Abt-cel stgr zone. Kfs-cel threads + stgrs 11 fol'n @ 45-0°. Fol'n direction changes rapidly, esp. near end of sect. Microscopic green's at foliated stgrs. Axial plane is second fol'n @ 75-80° TCA. Fold nose area, loc. M green's.
168.8	S	VF	BED	GY	-	S <sub>gr</sub>				2	1			.1								100	AX35464			
169.5			BED							20	10			.5										970		px, sph 11 fol'n near stgrs.
170.5			SHD							1	1			.1										971		
171.6										1	5			.1										972		
173									F 45	F 60	5	5		.1										973		
174										2	1			.1										974		
174.7									F 10		10	5		.5										975		strongly cre'd stgrs in fold nose area.
175.7										5	5			.1										976		
182.6						S <sub>gr</sub>				3	2			.5										977		
193	M		BED			SER1			B 40		1	1		.1										978		175.7-182.5 Wkly graphitic arg/sulfidation.
194.1	W		SHD						F 10		2			.1										979		
																										182.5-194.1 Sericitized Argillite.
																										Fg. It gr. w. loc. It gr. series streaks. Argillite/sulfidation, banded + wky - mod. fol'n. Tr does py 1-2%. Qtz - ank threads throughout. Strongly sheared after 190.7, fol'n variable.
194.6	M	E	SHD	GY		ALB	S <sub>gr</sub>	F 0		5		10		.5										980		194.1-196.2 Patchy fg, gy alth → albification, ank in threads + stgrs. Mn by dusky.
195.3						SER2						5		.1										981		
196.2						ALB				10		5		.1										982		
197.3						SER2				1	10			.1										983		
198.1										2	2			.1										984		
199.6						ANK	S <sub>gr</sub>			20	5	10		.5				.1						985		Brix'd Qtz - cel stgr zones, to sph.



Dist	Rock Description						Structure				Alteration Parameters (%)											Wth	Comments					
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt	RQ			Sampl#				
																									228-75-232 Chloritic Iron Formation			
																									Very lean magnetite-cherty bands interbedded with dk gn ferruginous sediment. Loc. py, po in mag-chert bands. Uk loc gtx - dat remaining.			
																									229-35 Z/S folded mag beds @ 40° TCA, axial plane @ 10° TCA			
229.5	M	F	BED	GN	CHL3	IFch1	C	55		2	1			1	.5									5	MX37515			
230.2										15		10			1	.5									10	516		
231.2															.5										5	517		
232															.5										5	518		
233.3			SHD	GY	CHL1	Sangr																			5	519		
234.76			"	"	"	Sangr	F	55																	5	520		
235.26			"	GN	CHL3	IFch1	B	45		5	1			2	.5										5	521		
236.2				GY	CHL1	Sangr																				5	522	
237.7				GN	CHL3	IFch1																				5	523	
																										235.26-236.2 Carbonaceous Argillite		
																										As 198.1-228.75		
238.1	M	F	BRX	GY	CHL3	QU				60				1											5	524		
239.1			"	GN		IFch1				10	20			1												5	525	
240			SHD	I											.5											5	526	
241.5			BRX	BR						3				1	.5											.5	527	
242.9			SHD	GN						2				.5													5	528
244.3			BED	"						7				.5												1	529	
245.85			"	TN	SER1	Scht				3				.5												10	530	
246.65			"	GN	CHL3	IFch1				1				1												1	531	
247.65	M	FM	BED	GY	ANK1	Sg								.5	.1											5	532	
249	"	F	"	GN	CHL3	IFch1				1				.5	.1											2	533	
																											poorly bedded cherty unit, somewhat coarser near top of section - tops down hole?	

Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments
	Com	GrS	Text	Co	Alt	NaM1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt					
249.8	M	F	BRX	GN	CHL3	IFchl					35		1								5	AN37534		3 bull gtz prx v lets w. wh ank t	
251	"	"	BED	TN	CHL3	St								.5	1						10	535		tan dol (1%)	
252.5				GN		IFchl								.1	1							536			
254				"		"				2				.1	1							537			
255.05			BRX	WH		QU	V	40		70		2		.1								538		Mull gtz - brx vein w. wh ank t	
255.55			SHD	GN		IFchl				1				.5								539		1% tan dol, irreg contacts.	
257			BED	GP	CHL	Says								.1								540			
263.54			"	"	"	"								.1								541		255.55-263.54 Argillite/Siltstone	
281		C	CLAS	GP	CHL	5c	F	40		.1	1			.5	1							542			
304.5		"	"	"	"	"				.1	1			.1								543		Aphanitic - lg, dk gy, bedding // Fol'n? 2-5% wh carb rhombs diss throughout. Wispy gel stars throughout Rec. Eg dissip. Appears coarsest at top of sect, but may be more intense ank altho.  5m gauge @ 20' w. 1t pk dol @ 262-3.  263.54-354.4 Conglomerate.  Poly metric, heterolithic. Eg mod - dk gy gwt matrix w. rare 0.5mm gtz eyes clasts long - 10cm long, wkly - mod fol'd + clasts stretched 11 ft in Flattened @ 5:1. Most common clasts are felds, vls, argillite(?) chert + 1-2% sulphidochert w. layered py/ps. 1% subrounded gy clasts. To 264.9 unit is mainly gwt w. 5% clasts. Also loc granitic clast Loc w/ k gtz - cal stars. Matrix supported 2.68 cherty clast w. wk fuchsite. 1% hematite clasts	

Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl #	Wth	Comments		
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank		%	Py	Po	Cpy	Sph	Asp	Mt						
305.5	M	C	CLAS	GP	CEL	Sc																			AX 37544		209.4 - 271 Argillite/Gwk bed
305.8																									545		within conglomerate sharp contact
306.8																									546		11 fol'n @ 40° Argillite on
329						Sc																			547		uphole side of unit in top
338.8						Sc																			548		uphole?
339.8																									549		
340.4																									550		- conglomerate more sheared,
341.4																									551		strongly fol'd, past 290.
353.4			SHD																						552		
354.4																									553		305.6, massive po stgr v. calcite
																									To 317		From approximately this point on 10-15% argillite clasts/beds are incorporated into the conglomerate. In places, the conglomerate superficially resembles argillite/siltstone, but there are always some exotic clasts. Clasts = 5% of unit, some clasts may be very stretched & so resemble beds.
																											324.9 Ph. dol stgr @ 20° v. Ax along edges. Stgr 5-6mm wide.
																											From 345 - 354.4 Highly sheared conglomerate as 305.6 - 317 gradational contact. 25mm etc eyes becoming more abundant (to 5%) downhole.
																											337.9 cal forms structure at edge of a clast.



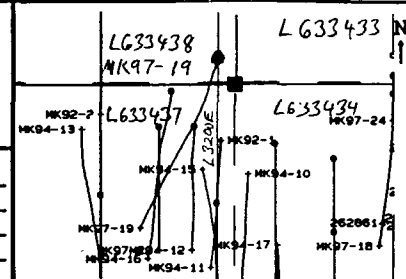
Extension of MK 97-18 Drilled Mar 4-5, 1977.

Highwood Resources Ltd. (formerly Mountain Minerals) / Mikwam Joint Venture												HOLE #:			Page 1 of 2																				
Dist	Rock Description						Structure		Alteration Parameters (%)										RQ	Sampl#	Wth	Comments													
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank		%	Py	Po	Cpy					Sph	Asp	Mt										
																																			362.3-363 serried Argillite
																																		Strongly foliated & crystalline fg. dur. px. Mod gy w. buff ribbons	
																																		363-365.6 sheared Conglomerate	
																																		Fg. mod gy w. buff streaks (clasts). Clasts are extremely stretched but can be seen to terminate locally. Loc 5-10mm qtz clasts which are relatively undeformed. strongly serried ank'd. Argillite band @ 364.5- 364.7. 1-2% fine qtz eyes throughout.	
362.3						LC																													
363	M	VF	SHD	GY	GER3	Sa									-.5																			AX43375	
363.5		F				Sc, sch									-1																			376	
364.7															-1																			377	
365.6										15					-.5																			378	
366.5		VF				Sc									-1																			379	
368						"									-1																			380	
369.5															-.5																			381	
371															-.5																			382	
371.76															-.5																			383	
373		FC				Sc, sch									-1																			384	
374															-1																			385	
375.5															-1																			386	
376.6															-1																			387	
																																			371.76-376.6 sheared Conglomerate
																																			As 363-365.6 but w. more prominent qtz clasts



Dist	Rock Description						Structure			Alteration Parameters (%)												Sampl #	Wth	Comments			
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt	RQ						
378	S	F	FOL	GY	CHL2	5a																		AX 43388		376.6 - 379 Argillite	
379	M		"		"	"						2												389			
380.5			SHD		CHL3	5a, 1F				1				2										390		Lt-dk gy, fg mod seric'd to	
381.3			"		"	"				40				4				1						391		strongly ch'd. 2% fg qtz eyes	
382.5		FM	FOL		SER3	5g, g								-1										392		loc.	
384						"								-1										393			
385.4						"								-1										394		379-381.3 Argillite / chloritic IF	
387		F	SHD		CHL3	5a, 1F				5		2		5										395			
388		FM	FOL		SER3	5a, g						7		-1										396		Mixed black argillite & inter- bedded gy chert; min buff cherty tuff & gh chl beds. No magnetite beds. Gy qtz, stgr zone from 380.5-381.3. Fg stgr py	
																											381.3-385.4 Qtz Eye Greywacke
																											f. Fgy, strongly seric'd, strongly ch'd. 2-5% 5-2mm qtz eyes Min eg drss py.
																											385.4-387 Argillite / chloritic IF
																											A. 379-381.3
																											387-387.9 Argillite / Greywacke
																											Mixed qtz eye greywacke w. 381.3-385.4 and dk gy argillite w. 5% bright apple gn tachicite bands.
																											388 EOH
																											103 m BW casing left. Test @ EOH is the only one with a reliable azimuth. Azimuth inferred on other tests.

HOLE #:                      NORTHING: 19 505 EASTING: 32 ELVN: 3050 LENGTH: 5  
 TWP: NOSE WORTHY Drilled by: GRADLEY Logged by: ERIC GENEAU Start: 11 FEB 97  
 Claim: L633437, L633438 Core Stored: Timmins Casing/Size: 47m BV, NW Finish: 19 FEB 97



Dist	Azim	Dip	Dist	Azim	Dip	Dist	Azim	Dip	Dist	Azim	Dip
0	177	-57	267	209	-57	506	206	-51			
47	203	-55				551	206	-47			
107	196	-56	387	209	-53						
167	203	-56	446	206	-49						

Purpose/Results: To test open down-dip extension of 3200 vein Mineralized Zone at 450.7-479.4 280 samples.

Dist	Rock Description						Structure		Alteration Parameters (%)														RQ	Sampl#	Wth (m)	Comments		
	Com	GrS	Text	Co	Alt	NaM1	B	A1	F	A2	Qtz	Cal	Ank		Py	Po	Cpy	Sph	Asp	Mt								
46.2						CAS																						OVER BURDEN
																												STRONGLY FOLDED GREY TO BLACK ARGILLITE (46.0 TO 219.9) - GREY TO DARK GRAY/BLACK COCOR - SILTSTONE LOCALLY INTERBEDDED WITH ARGILLITE - CHL I SER FOUND ALONG SCHISTOSITY PLANES - WHITE TO GREYISH WHITE QTZ/ ANK VEINS PRESENT - PY: EUHEDRAL, CUBIC <1mm TO 7-8mm SIDE SIZE FOUND IN QTZ VEIN OR FOLLOWING SCHISTOSITY - STRUCTURE: SCHISTOSITY AND QTZ VEINS SHOWS VARIABLE DIRECTIONS. ANGLE TO LCA INDICATED WHEN WELL DEFINED
47.5	M	UFFG	CoT	GY	ANK1	5a, s				30	-	1												100	35001	1.2	QTZ VEINLETS PRESENT ALONG INTERVAL	

Rock-Description		Structure		Alteration Parameters (%)														RQ	Sampl #	Wth (m)	Comments				
Dist (m)	Com	Grs	Text	Co	Alt	Na <sub>1</sub>	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Co <sub>2</sub>					Sph	Asp	Mt	
49.0	M	VEG	GOT	GY	ANK1	50.5	D	45			30	-	1		1							100	35002	1.5	Q <sub>12</sub> VEINLETS ALONG INTERVAL
50.5							U	10			20	-	1		0.5							90	35003	1.5	BROKEN CORE @ 50.35 TO 50.50 WHITE MICA LOCALLY NOTED WITH Q <sub>12</sub> VEIN. 8 CM WIDE Q <sub>12</sub> VEIN NOTED @ 50.27 TO 50.35
52.0											25	-	1		0.5							100	35004	1.5	Q <sub>12</sub> VEINS @ 50.5, 8cm WIDE, AND @ 50.70, 10cm WIDE
53.5							U	35			15	-	1		1							100	35005	1.5	Q <sub>12</sub> VEIN WITH WHITE MICA @ 53.95, 10cm WIDE SILTSTONE BED @ 52.30 TO 52.45
55.0							B	20	U	25	10	-	1		0.5							100	35006	1.5	SILTSTONE @ 54.05 TO 54.55
56.5											15	-	1		0.5							100	35007	1.5	Q <sub>12</sub> VEINS @ 55.40, 8cm WIDE AND @ 55.90, 9cm WIDE. SILTSTONE @ 55.50 TO 55.80
58.0											10	-	1		0.5							100	35008	1.5	SILTSTONE @ 57.30 TO 58.03
59.5							B	50			10	-	1		0.5							100	35009	1.5	SILTSTONE @ 58.30 TO 58.75
61.0											20	-	1		0.5							100	35010	1.5	Q <sub>12</sub> + WHITE MICA VEINLETS @ 59.70 TO 59.85
62.5											20	-	1		1							100	35011	1.5	WHITE MICA IN Q <sub>12</sub> VEINS NOTED ALONG THE INTERVAL
64.0							B	40			15	-	1		0.5							100	35012	1.5	INTERVAL COMPOSED MAINLY OF SILTSTONE

Dist	Rock Description						Structure		Alteration Parameters (%)											RQ	Sample#	Wth	Comments			
	Com	GrS	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank		% <sup>g</sup>	Py	Po	Cpy	Sph					Asp	Mt	
65.5	M	VFG	GOT	GY	ANK	Sg/s				1	-	1			0.1							100	35013	1.5	SILTSTONE RICH REGION	
67.0							V40			1	-	1			0.5							100	35014	1.5	SILTSTONE C 65.5 TO 65.9	
68.5										10	-	1			1							100	35015	1.5	QTZ VEINS @ 67.0 TO 67.59 ANA @ 68.16 TO 68.22	
70.0										10	-	1			0.5							90	35016	1.5	BROKEN CORE @ 69.65 TO 69.85 QTZ VEIN @ 69.3 TO 69.30	
71.5										15	-	1			1							100	35017	1.5	QTZ VEINETS AND SPOTS FOUND BETWEEN @ 70.5 TO 71.2	
73.0										3	-	1			0.1							100	35018	1.5	MINOR QTZ VEINETS	
74.5										7	-	1			0.5							100	35019	1.5	QTZ VEIN @ 74.07 TO 74.20 WITH CONTORTED FORM.	
76.0							V10			15	-	1			0.1							100	35020	1.5	QTZ VEIN WITH WHITE MICA @ 74.90 TO 75.05 DALE CLAY ARGILLITE @ 75.2 TO 76.4	
77.5										2	-	1			0.5							100	35021	1.5	BLACK ARG, TRACE OF GRAP	
79.2	S	VFG	COT	BK	-	5ggr	B70			1	-	-			1							15	35022	1.7	BLACK GRAPHIC ARGILLITE BLOCKY BREAK ON SHEAR PLANES, MAY FOLLOW SHEAR PLANES. MINOR QTZ VEINS 10% PY @ 78.9 TO 79.1	
80.0						LC																			0.8	
80.9	B	VFG	COT	BK	-	5ggr				1	-	-			1							10	35023	0.9	BLACK GRAPHIC ARG, BLOCKY BREAK ON SHEAR PLANES. 30-40% PY @ 80.5 TO 80.7	

Dist	Rock Description					Structure		Alteration Parameters (%)											RQ	Sampl#	Wth	Comments													
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph					Asp	Mt											
81.3						LC																													
83	S	VFG	COT	BK	-	5a,gr				95	-	-		3									70	35024	1.7	QZ VEIN C 81.5 TO 81.6 AND C 82.7 TO 82.9. 20-25% PY C 82.20 TO 82.28.									
84.1	M	VFG	COT	GY	ANK1	5a				70	-	1		3								100	35025	1.1	GRAY ARKILLITE										
84.9										2	-	0.5		40								100	35026	0.8	SEMI-MASSIVE, FINE GRAINED PY										
86.5	S	VFG	COT	BK	-	5a,gr				5	-	-		0.5								30	35027	1.6	BLACK GRAPH. ARG. BREAKS ROUGHLY ON SHEAR PLANES										
88.0	M									5	-	-		0.5								90	35028	1.5	LESS GRAPHITIC ON THE LAST 50 CM OF THE INTERVAL										
89.5	M	VFG	COT	GY	ANK1	5a				10	-	1		1								95	35029	1.5	QZ VEIN C 89.15 TO 89.25. GRAY TO BLACK ARG. NO GRAPH										
91.0										5	-	1		1								95	35030	1.5	GRAY TO BLACK ARG. NO GRAPH										
91.35						LC																			0.35										
92.5	M	VFG	CUT	GY	ANK1	5a, S				70	-	1		0.5								100	35031	1.15	DARK GRAY TO BLACK ARG										
94.0										70	-	0.5		0.5								100	35032	1.15	GRAY TO DARK GRAY ARG. QZ VEIN C 93.15 TO 93.23.										
95.5										13	-	0.5		0.1								100	35033	1.15	MED GRAY SILTSTONE LOCALLY INTER BEDDED WITH ARG.										
97.0						SE21	N	40		2	-	0.1		0.5								100	35034	1.15	LIGHT TO MEDIUM GRAY. FINE DEM. DETIC CHL WHIRLS NOTED. QZ VEIN WITH "BOUDIN" STRUCTURE NOTED R-96.0, 25% TO LGA.										

Rock Description						Structure				Alteration Parameters (%)													RQ	Sampl #	Wth	Comments
Dist	Com	Grs	Text	Co	Alt	Na	Al	F	A2	Qtz	Cal	Ank	Py	Po	Cpy	Sph	Asp	Mt								
98.5	M	VFG	COT	GY	SER2	5a,5				3	-	0.1								100	35035	1.5	LIGHT TO MED GRAY, SERICITIC + CARBONATIZED ALT.			
100										10	-	0.1								100	35036	1.5	QTZ VEIN @ 98.95 TO 99.10			
101.5										45	-	0.1								100	35037	1.5	QTZ VEIN @ 100.20 TO 100.65 AND @ 100.85 TO 101.0			
103.0										10	-	0.1		0.5						100	35038	1.5	PY + CHL DENDRITIC VEINLETS. NOTED @ 102.70 TO 103.0 QTZ VEIN @ 102.10 TO 102.15			
104.5										10	-	0.1		0.5						100	35039	1.5	LIGHT TO MEDIUM GREENISH GRAY, SERICITIC + MINOR CHL ALT. FINE DENDRITIC PY + CHL VEINLETS NOTED ALONG INTERVAL			
105.85										15	-	0.1		0.5						100	35040	1.35	MEDIUM TO DARK GRAY ARGILLITE QTZ VEIN @ 105.06 TO 105.16			
107.25	B	VFG	COT	GY		QU				80	-	-		3	0.1		0.1			60	35041	1.4	QTZ/ANK VEINS INTER BEDDED WITH MEDIUM GRAY ARGILLITE CHL LOCALLY ABUNDANT ON FRACTURE PLANES, WHITE MICA AND PO + SPH (RARE)			
108.50	M	VFG	BED	GG	SER2	5a	V30			25	-	0.1		2						100	35042	1.25	MEDIUM GRAYISH GREEN, HIGHLY SERICITIC ALTERATION, QTZ VEIN @ 107.70 TO 107.90			
110.0						ANK	V50			40	-	0.5		3						100	35043	1.5	MED GRAYISH GREEN FROM 108.5 TO 109.53. FROM 109.53 TO 110.0 BLACK ARG. QTZ VEINS @ 107.70 TO 108.0 AND @ 109.53 TO 110.0			
111.5	M	VFG	COT	DK	ANK	5a				5	-	0.5		0						90	35044	1.5	BLACK ARGILLITE			



Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments	
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	PO	Cpy	Sph	Asp	Mt						
124.7	M	VFG	ROT	BF	-	5a					5	-	-		0								90	35054	0.7	BLACK ARGILLITE, PY INTER-BEDDING.
125.0						LC																			0.3	
126.5	M	VFG	ROT	GY	SER1	5a,5					13	-	0.1		0.5								90	35055	1.5	WHITISH TO MEDIUM GRAY ARGILLITE/SILTSTONE, HGT SER + ANK ALT. CLAY/C 125.45 TO 125.50.
128.0							N 25				2	-	0.1		0.1								100	35056	1.5	MEDIUM GRAY ARGILLITE
129.5											11	-	0.1		0.1								100	35057	1.5	SAME AS BEFORE
131.0											1	-	0.1		0.1								80	25058	1.5	MEDIUM GRAY ARGILLITE, BLOCKY BLUEEN C 130.7 TO 131.
132.1	B										1	-	0.1		0.5								40	35059	1.1	HIGHLY BROKEN C 131.90 TO 132.1
133.2						LC																			1.1	
141.8	M	VFG	BED	GY	SER1	5a	N 25				0.5	-	0.1		0.1								100	35060	8.6	HOMOGENOUS GRAY ARGILLITE GRAB SAMPLE.
143.0	M	VFG	BED	GY	CHL	5a					1	-	0.1										90	35061	1.2	SECTION WITH CHL + SER1 ALTERATION
148.2	M	VFG	BED	GY	SER1	5a					1	-	0.1		0.1								100	35062	5.2	HOMOGENOUS GRAY ARGILLITE GRAB SAMPLE.
149.5	M	VFG	BED	GY	SER1	5a					2	-	0.1		0.5								100	35063	1.3	MEDIUM TO DARK GRAY ARGILLITE CHL + SER1 ALTERATION



Dist	Rock Description					Structure		Alteration Parameters (%)											RQ	Sampl#	Wth	Comments		
	Com	Gr	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	Py	Po	Cpy	Sph	Asp					Mt	
151.0	M	DFG	BED	GY	SER	SG	V	20		3	-	0.1		0.5							100	35064	1.5	DARK GRAY ARG. CHL+SER ALT.
152.5										2	-	0.1		0.1							100	35065	1.5	SAME AS BEFORE
154.0										7	-	0.1		0.5							100	35066	1.5	QZ VEIN C 153.92 TO 154.
155.5										8	-	0.1		0.5							100	35067	1.5	DARK GRAY ARG. QZ VEIN C 154.28 TO 154.35, CHL+SER ALT.
157.0	S	DFG	BED	GY	SER	SG				13	-	0.1		0.5							60	35068	1.5	MORE CHLORITIC SECTION (CHL2)
158.5	M	DFG	BED	GY	SER	SG				2	-	0.1		0.1							100	35069	1.5	CHLORITIC (CHL2)
160.0							B	40		40	-	0.1		1							100	35070	1.5	HIGHLY CHLORITIC QZ VEINING. LOW PY CONTENT.
161.5										40	-	0.1		1							100	35071	1.5	HIGHLY CHL QZ VEIN C 160.0 TO 160.60. FROM 160.160 TO 161.50 DARK GRAY, CHLORITIC ARGILLITE
163.0							B	40		3	-	0.1		0.5							100	35072	1.5	CHLORITIC, DARK GRAY ARGILLITE
164.5							U	30		7	-	0.1		0.5							90	35073	1.5	QZ VEIN WITH PY C 164.23 TO 164.89
165.75										5	-	0.1		0.1							100	35074	1.25	SMALL QZ VEIN C 165.60
168.40										2	-	0.1		0.1							100	35075	2.65	MEDIUM GRAY ARGILLITE. GRAB SAMPLE MINOR SER ALT. NO CHL ALT.

Rock Description						Structure		Alteration Parameters (%)														RQ	Sampl#	Wth	Comments
Dist	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	% <sup>q</sup>	Py	Po	Cpy	Sph	Asp	Mt					
169.7	M	VFG	COT	GY	ANK	5a					20	-	1		1							100	35076	0.7	DARK GRAY ARGILLITE, QTZ + ANK + PY VEINS. MINOR SER. ALT. NO. CHLORITE
171.3	M	VFG	BE0	GY	ANK	5a					3	-	1		0.1							95	35077	2.2	DARK GRAY ARGILLITE. MINOR QTZ AND PY. GRAB
172.55											5	-	1		0.5							100	35078	1.25	DARK GRAY TO LOCALLY BLACK ARGILLITE. QTZ + ANK + PY VEINS NOTED.
172.3											3	-	1		0.5							100	35079	4.75	MEDIUM TO DARK GRAY ARGILLITE. GRAB SAMPLE
177.8											20	-	2		0.5							60	35080	0.5	BLOBBY/BROKEN QTZ VEIN @ 177.45 TO 177.62.
184.5											1	-	0.5		0.1							100	35081	6.7	GRAB SAMPLE
185.6	M	VFG	COT	GY	SER1	5a					1	-	-		2							100	35082	1.1	MEDIUM TO DARK GREY ARGILLITE
187.05											1	-	-		1							100	35083	1.45	SAME AS 185.6
188.45	M	VFG	COT	BE	-	5a					3	-	-		3							95	35084	1.40	BLACK ARGILLITE, GRAPHITIC QTZ VEIN + PY + ASPY (TRACE) @ 188.35.
190.0	M	VFG	COT	GY	CHL	5a					5	-	-		0.5							100	35085	1.85	LIGHT TO MED GRAY ARGILLITE. MODERATE CHL + SERICITIC ALTERATION. DENDRITIC, FINE PL ± CHL NOTED
191.5											2	-	-		0.5							100	35086	1.5	SAME AS 190.0
193.0											2	-	-		1							100	35087	1.5	SAME AS 190.0
194.5											2	-	-		1							100	35088	1.5	SAME AS 190.0

Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl #	Wth	Comments	
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	% <sup>g</sup>	Py	Po	Cpy	Sph	Asp	Mt						
196.0	M	UFG	BED	GY	SER1	Sa	V	45				0.1		0.5									100	35089	1.5	MEDIUM GRAY ARGILLITE, MINOR SER+CHL+AVE ALT
197.5							V	70				0.1		0.5									100	35090	1.5	SAME AS 196.0
199.0							V	35				0.1		0.5									100	35091	1.5	SAME AS 196.0
200.8							V	25				0.1											100	35092	1.8	SAME AS 196.0
202.0	M	UFG	COT	DK		Sa gn				5				2									100	35093	1.2	BLACK MINOR GRAPHITIC ARGILLITE MINOR CHLORITIC ALTERATION
203.5										10				4						0.1			100	35094	1.5	QTZ+PY VEIN @ 203.25 TO 203.50. PY VEIN (ASPY TRAC) @ 203.11 TO 203.15
205.0										5				2									90	35095	1.5	SAME AS 202.0
206.5	S									3				1									70	35096	1.5	SAME AS 202.0
208.15	M									5				1									90	35097	1.00	DARK GRAY TO BLACK ARGILLITE, MINOR GRAPHITIC AND CHLORITIC
209.5	M	UFG	HOM	WA		QU				98				1						0.1			100	35098	1.35	WHITE TO GRAYISH WHITE QTZ VEIN GRAPHITE + ASPV LOCALLY FOUND IN NARROW BREAS
210.8										80				1						0.1			100	35099	1.30	SAME AS 209.5. INTERBEDDED WITH BLACK GRAPHITIC ARGILLITE @ 210.30 TO 210.60
211.6	M	UFG	COT	BR	SER1	Sa				5		0.1		2									100	35100	1.5	BLACK GRAPHITIC ARGILLITE WITH A PY VEINLET 2mm WIDE @ 211.45, 50° CCA
212.20	M	UFG	HOM	WT		QU				95				2						0.1			100	35101	0.10	SAME AS 209.5

Dist	Rock Description					Structure		Alteration Parameters (%)														RQ	Sampl#	Wth	Comments											
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt																
212.5						LC																														
214.0	M	VEG	COY	BR		Sagn				2					0.5										90	35102	1.5							BLACK GRAPHITIC ARGILLITE RALE CHLORITE ON SAGAR PLANES		
215.5										2					0.5										75	35103	1.5						SAME AS 214.0			
217.0										2					1										80	35104	1.5						SAME AS 214.0. PY:UCINLET LONN WIDE C. 216.97.			
218.5															0.5										100	35105	1.5						SAME AS 214.0			
219.8										1					0.5										100	35106	1.5						SAME AS 214.0.			
																																		CHLORITIC IRON FORMATION (219.8 TO 251.5) - MIX OF CHLORITIC SEDIMENTS TUFF AND MAGNETITE BEDS. - THE CHLORITIC SEDIMENTS ARGILLITE/SILTSTONE POSSESSES LOCALLY MANY ANKERITE PORPHYRO BLASTS. THE SEDS ARE THE PREDOMINANT PART OF THIS UNIT. - THE TUFF IS BUFF TO LOCALLY GREYISH. - GRTZ VEINS ARE LOCALLY PRESENT - INDIVIDUAL BED THICKNESS RANGE FROM 1 UP TO 50CM. - THE ROCK IS GENERALLY MASSIVE, WITH LOCAL BREAKS - MAGNETITE BEDS ARE GENERALLY INTERBEDDED WITH TUFF BEDS.		

Dist	Rock Description						Structure			Alteration Parameters (%)										RQ	Sampl #	Wth	Comments	
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp					Mt
221.0	M	JFG	BED	GY	ANK	IFCHL	B	30		15	-	1		0.5							100	35107	1.2	QTZ + PY + CHL VEINS C 219.2 TO 220.0 AND C 220.35 TO 220.40.
222.5							B	25		5	-	1		0.5							100	35108	1.5	QTZ + PY VEIN C 221.95 TO 222.05
224.0							J	20		20	-	1		0.5							100	35109	1.5	QTZ + PY + CHL VEINS C 222.5 TO 222.75 AND C 223.5 TO 223.6
225.5							J	20		20	-	1		0.5							100	35110	1.5	QTZ + PY + CHL VEINS C 224 TO 224.10, C 224.42 TO 224.55, C 224.80 TO 224.90
227.0							B	15		10	-	1		0.5							100	35111	1.5	QTZ + CHL VEIN C 226.4 TO 226.5
237.5							B	30		2	-	1		0.1							100	35112	1.5	GRAB SAMPLE
239.0							B	25		30	-	1		0.1							100	35113	1.5	QTZ + CHL VEIN C 237.7 TO 238.1, C 238.57 TO 238.67
240.5										2	-	1		0.5							100	35114	1.5	CHLORITIC SEDIMENTS + TUFF
242.0							B	20		15	-	1		0.1							100	35115	1.5	QTZ + CHL VEINS C 241.15 TO 241.20, C 241.4 TO 241.5
249.3							B	27		1	-	1		0.1							100	35116	7.3	GRAB SAMPLE
250.3										5	-	1		0.1							100	35117	1.7	QTZ + CHL VEINS IN THE INTERVAL
251.5										8	-	1		0.1							100	35118	1.2	QTZ + CHL VEINS



Rock Description		Structure		Alteration Parameters (%)														RQ	Sampl#	Wth	Comments				
Dist	Com	Grs	Text	Co	Alt	Na	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy					Sph	Asp	Mt	
260.5	M	NFG	GOT BK	-	Sgn	N	3S				1				0.1							100	35104	1.5	BLACK GRAPHITIC ARGILLITE QTZ VEIN, 2cm WIDE @ 259.8
262.0											4				0.5							100	35105	1.5	FINE QTZ VEINLETS ALONG INTERVAL
263.5					GY ANK	SO					1				0.1							100	35106	1.5	DAVE GREY TO BLACK CHLORITIC ALTERATION MORE INTERS
265.3											10				0.5							90	35107	1.8	LOCALLY BLOCKY,  CHLORITIC IRON FORMATION (265.3 TO 270.7) - MIX OF CHLORITIC SEDIMENTS, TUFF AND MAGNETIC BEDS - THE SEDIMENTS ARGILLITE/ SILTSTONE POSSESSES LOCALLY ANKERITE OR PHYROBLASTS, THE SEDS ARE THE PREDOMINANT PART OF THIS UNIT - TUFF IS BUFF TO LOCALLY GREENISH - QTZ VEINS ARE LOCALLY PRESENT - INDIVIDUAL BED THICKNESS RANGE FROM 1 TO 50 CM - MAGNETITE BEDS ARE GENERALLY INTERBEDDED WITH TUFF BEDS
266.5	M	NFG	BED	GY	SE	11	FCHL	N	15		2		0.1		0.1							100	35108	1.2	
268.0											10		0.1		0.5							100	35109	1.5	QTZ VEINLETS @ 267.0 T/267.40
269.5											1		0.1		0.1							100	35130	1.5	
270.7											5		0.1		0.1							100	35131	1.2	

Dist	Rock Description						Structure				Alteration Parameters (%)															
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank		%	Py	Po	Cpy	Sph	Asp	Mt	RQ	Sampl#	Wth	Comments	
																										ARGILLITE / SLT STONE (270.7 TO 302.1) - MEDIUM GRAY TO BLACK - SLT STONE LOCALLY INTER- BEDDED WITH ARGILLITE - DARK PORPHYROBLAST PRESENT - SER + CHL ALTERATION IN MATRIX OR ON THE SCHISTOSITY PLANES - WHITE TO GRAYISH WHITE QTZ / ANK / PY VEINLETS OR VEINS LOCALLY PRESENT - PY IN QTZ VEINS OR IN MATRIX
272.0	M	UFG	AED	GY	Ser1	Sg	V	25		10	-	0.1			0.5							100	35132	1.3	QTZ VEINLETS ALONG THE INTERVAL FOLLOWING BEDDING	
273.5										1	-	0.1			0.1							100	35133	1.5	BUFF TUFF C 273.3 TO 273.6	
275.0										20	-	0.1			0.1							100	35134	1.5	QTZ + CHL VEINS AND VEINLETS ALONG INTERVAL	
276.5							V	20		10	-	0.1			0.5							100	35135	1.5	SAME AS 275.0	
278.0							V	30		10	-	0.1			0.5							100	35136	1.5	SAME AS 275.0	
279.5										5	-	0.1			0.5							100	35137	1.5	QTZ VEIN C 278.3 TO 278.30	
281.0							B	40		5	-	0.1			0.1							100	35138	1.5	QTZ VEIN (280.6 TO 280.6)	



Dist	Rock Description					Structure		Alteration Parameters (%)													RQ	Sampl#	Wth	Comments
	Com	GrS	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	Py	Po	Cpy	Sph	Asp	Mt					
282.5	M	NFG	BED	GY	SER	So	A	35		75	-	0.1		0.5						100	35139	1.5	QTZ VEINS ALONG INTERVAL	
287.0							B	20		2	-	0.1		0.5						100	35140	4.5		
285.5										25	-	0.1								100	35141	1.5	QTZ VEIN C 285.15 TO 285.5	
287.0										5	-	0.1								100	35142	4.5	QTZ VEIN C 285.25 TO 285.95	
288.5			COT							2	-	0.1								100	35143	1.5		
290.0										1	-	0.1		0.1						100	35144	1.5		
291.5			BED				V	15		15	-	0.1							100	35145	1.5	QTZ VEINS C 290.85 TO 291.00, C 291.85 TO 291.55		
293.0							B	25		10	-	0.1		0.5					100	35146	1.5	BUFF TUFF INTERBEDDED WITH ARGILLITE C 292.40 TO 293.0		
294.5							V	10		20	-	0.1		0.5					100	35147	1.5	BUFF TUFF INTERBEDDED WITH ARGILLITE. QTZ VEINS 1cm WIDE FOLLOWS BEDDING		
296.0										1	-	0.1		0.1					100	35148	1.5	BLACK MINOR GRAPHITIC ARGILLITE CHL ALTERATION PRESENT (MIWARI)		
296.7			COT							75	-	0.1		15					100	35149	0.7	MIXED OF QTZ VEINS AND FLOODING(?) WITH PY GRA/ ARGILLITE.		
296.9	M	FG	UG	ME		PY				5	-	-		15			0.1		100	35150	0.2	MASSIVE PY WITH TRACES OF ASPY. SPANGY TEXTURE		
298.5	M	NFG	BED	GY		So	B	40		8	-	0.1		4			0.1		100	35151	1.6	GRAY ARGILLITE WITH PY AND QTZ INTERBEDDING		
300.0						So				1	-	0.1		0.1					100	35152	1.5	BLACK GRAPHITIC ARGILLITE		

Rock Description							Structure			Alteration Parameters (%)											RO	Sampl #	Wth	Comments	
Dist	Com	Grs	Text	Co	Alt	Na mel	B	A1	F	A2	Qtz	Cal	Ank	Py	Po	Cpy	Sph	Asp	Mt						
301.4	M	VEG	COTAR			50 gN					1	-	-	0.5							100	35153	1.4	BLACK GRAPH ARGILLITE	
302.1							B40				30	-	-	5					0.1		100	35154	0.7	INTERBEDDED WITH QTZ VEINS AND PY. TRACE ASPY!	
																									POLY MIXTIC CONGLOMERATE (300.1 TO 350.7) - MAINLY VOLCANIC CLASTS, OTHER: CHERT, QTZ - ARGILLIC TO GREYWACKE MATRIX - CLASTS ROUNDED TO LOCALLY HIGHLY FLOWGATE - CHL + ANK + SER (MINOR) - ALTERATION NOTED. CHL LOCALLY FOUND IN BEDS. - RARE PY + QTZ VEIN FOUND - CLAST MORE CHL THAN MATRIX
314.0	M	CG	BED	CG	ANK	5C	B30				0.1	-	1	0.1							100	35155	1.9	GRAB SAMPLE	
325.4							B35				0.1	-	1	0.1							100	35156	1.2	GRAB	
327.0						5c.a	V45				1	-	1	0.1							100	35157	1.5	GRAY ARGILLITE RICH INTERVAL FEW CLASTS. MINOR CHL + ANK ACT.	
328.5											1	-	1	0.1							100	35158	1.5	SAME AS 327.0	
330.0						5C					1	1	1	0.1							100	35159	1.5	CGH, CAL + QTZ VEINS PRESENT	
331.5											1	1	1	0.1							100	35160	1.5	SAME AS 330.0	
333.0											1	1	1	0.1							100	35161	1.5	SAME AS 330.0	
334.5											1	1	1	0.1							100	35162	1.5	SAME AS 330.0	

Dist	Rock Description					Structure	Alteration Parameters (%)													RQ	Sampl#	Wth	Comments		
	Com	Grs	Text	Co	Alt		Name1	B	A1	F	A2	Qtz	Cal	Ank	% <sup>g</sup>	Py	Po	Cpy	Sph					Asp	Mt
339.5	M	CG	bed	GY	ANK1	SC	0	35			1	-	1		0.1							100	35163	5	GRAY SAMPLE
341.0							N	40			2	-	1		0.5							100	35164	1.5	EVDM 341.0 TO 350.7 QTZ + CALC (MINOR) + PY USINLET FOLLOWING BEDDING
342.5											2	-	1		0.5							100	35165	1.5	
344.0							N	30			1	-	1		0.5							100	35166	1.5	
345.5							N	40			2	-	1		0.5							100	35167	1.5	
347.0							N	45			2	-	1		0.5							100	35168	1.5	
348.5							N	45			3	-	1		0.5							100	35169	1.5	
350.0							N	40			1	-	1		0.5							100	35170	1.5	
350.7											1	-	1		0.1							100	35171	0.7	ARGILLITE. (350.7 TO 380.4) - MEDIUM GRAY TO BLACK - CHL + ANK ALT - LOCALLY MINOR GRAPHITE - INTERBEDDED WITH SILTSTONE AND/OR BUFF TO LIGHT GREEN TUFF - PR MAINLY ON SHEAR DEGS - WHITISH TO GRAY QTZ/ANK USINLET/ FLOODING
352.2	M	VEG	COT	GY	ANK1	SA					1	-	1		0.1							100	35172	1.5	DARK GRAY ARGILLITE
353.5											1	-	1		0.5							100	35173	1.5	BLACK ARGILLITE
355.0											2	-	1		0.1							100	35174	1.5	SILTSTONE BED NOTED

Dist	Rock Description					Structure	Alteration Parameters (%)													RQ	Sampl#	Wth	Comments		
	Com	Grs	Text	Co	Alt		Name1	B	A1	F	A2	Qtz	Cal	Ank	% <sup>9</sup>	Py	Po	Cpy	Sph					Asp	Mt
356.5	M	UFG	BED	AK		Sq	B	35		1					0.6							95	35175	1.5	NARROW (5cm) CLAYEY/GRA- PHITIC FAULT SHEAR @ 355.7. STICKWORK OF ANK/QTZ/PY @ 355.75 TO 355.90
358.0						gy ser				10												100	35176	1.5	QTZ/CHL/PY VEINS @ 356.7 TO 356.85, @ 357.95 TO 358.05.
359.5							B	25		3												100	35177	1.5	QTZ/CHL VEINLETS AND NARROW TUFF BEDS PRESENTS
361.0							V	40		3					0.5							100	35178	1.5	QTZ/CHL/PY VEIN @ 360.57 TO 360.62, TUFF BEDS @ 359.65 TO 359.80, @ 360.09 TO 360.17.
362.5							V	30		5					0.5							90	35179	1.5	QTZ + PY VEIN, 361.05 TO 362.20
364.0							V	30		2					0.5							95	35180	1.5	NARROW QTZ VEINLETS PRES
365.5			COT							2					0.1							100	35181	1.5	
367.0			BED							1					0.1							100	35182	1.5	
368.5										10					0.5							100	35183	1.5	QTZ VEINS @ 367.05 TO 367.20 @ 367.55 TO 367.60
370.0							V	30		15					0.5							100	35184	1.5	QTZ VEIN @ 369.4 TO 369.65
371.5							V	10		12					0.5							100	35185	1.5	QTZ + CHL VEIN @ 371.30 TO 371.50
373.0										5					0.5							100	35186	1.5	QTZ + ANK VEIN @ 372.5 TO 372.57
374.5							V	30		20					1							100	35187	1.5	QTZ + ANK + PY VEIN @ 373.0 TO 373.15, @ 374.1 TO 374.25
377.9										1					0.1							100	35188	3.4	GRAM SAMPLE

Dist	Rock Description					Structure		Alteration Parameters (%)										RQ	Sampl #	Wth	Comments				
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy					Sph	Asp	Mt	
378.9	M	VR	ROM	WH	-	QV					70	3	2		1							80	35189	1.0	WHITE TO GRAYISH QZ/CALC VEIN. INTERBEDDED WITH GRAY ARGILLITE. JUICY CALC WITH PY.
380.4	M		BED	GY		ANKI SA	0	15							0.1							80	35190	1.5	DARK GRAY ARGILLITE, TUFF BED C. 379.5 TO 379.55  IRON FORMATION CHL. (380.4 TO 404)  - SAME DESCRIPTION AS FECHL 265.3 TO 270.7 - SPECIFIC INTERVAL: ITEM INDICATED
381.5	M	CG	BED	GG	-	IFCHL	B	15	N	25	1	5	4		1							100	35191	1.1	CALC + ANK BRECCIA WITH UUGS @ 381.30 TO 381.40
383.0											0.1				1							100	35192	1.5	NO IRON BED. CHL SEGS
390.4							N	10			0.1				1							100	35193	1.5	CHLORITIC SEGS. GRAB SAMPLE
392.0							N	25			0.5	5	2		1							90	35194	1.5	CALC + ANK + PY JOIN @ 390.5 TO 390.60. CHLORITIC SE. NO IRON BED
393.5							N	40			0.5	1			0.5							100	35195	1.5	MAINLY MAGNETITE + TUFF BEDS. CALC VEINLET WITH UUGS @ 392.0
395.0											1				0.1							100	35196	1.5	CHLORITIC SEDIMENTS
396.5							N	15			3				1							100	35197	1.5	CHLORITIC SEGS. QZ + TUFF + PY VEIN

Dist	Rock Description						Structure		Alteration Parameters (%)													RQ	Sampl #	Wth	Comments	
	Com	Grs	Text	Co	Alt	Name	B	A1	F	A2	Qtz	Cal	Ank		%	Py	Po	Cpy	Sph	Asp	Mt					
398.0	M	CG	BED	GG	-	IFCHL	V	10		5	-	-			1								100	35198	1.5	CHL BEDS. CALC + ANK + PY VEINLET @ 397.3. QTZ + PY VEIN @ 397.3, 3MM WIDE
399.5							V	50		10	-	-			0.5								100	35199	1.5	CHL BEDS. QTZ VEINLETS ALONG INTERVAL
401.5										1	-	-			0.1								100	35200	1.65	CHL SEDIMENTS
402.5	M	VFG	MM	WH	-	QU	V	30		85	-	3			3	QTZ				0.5			100	35201	1.35	WHITE TO GRAYISH WHITE, PY + PO (RARE) + ASPY (NEEDLES) + CHL FOUND IN THE VEIN. G- (?) @ 401.70, LOCALLY INTER- BEDDED WITH ARGILLITE MED GRAY
404.0										80	-	3			3	QTZ				0.5			100	35202	1.5	SAME AS 402.5  ARGILLITE (404.0 TO 450.7)  - MEDIUM GRAY TO BLACK - SAME DESCRIPTION AS 35207 TO 384.4
405.5	M	VFG	CO	T	GY	ANK	S	B	40	1	-	0.5			0.5							100	35203	1.5	INTERBEDDED WITH CHL BED	
407.0										2	-	0.5			0.5								100	35204	1.5	SAME AS 405.5
408.5										1	-	0.5			0.5								100	35205	1.6	SAME AS 405.5
409.0										2	-	0.5			1								100	35206	1.5	QTZ VEINLETS PRESENT
411.3							V	30		2	-	0.5			1								100	35207	1.3	QTZ VEINLETS ALONG INTERVAL

Dist	Rock Description						Structure		Alteration Parameters (%)													RQ	Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	% <sup>9</sup>	Py	Po	Cpy	Sph	Asp	Mt					
412.5	M	VFG	GOT	GG	ANK	5A				30	-	0.5		1					0.1		100	35208	1.2	GREY- GREEN ARGILLITE INTERBEDDED WITH QTZ, ASPY AND EHL. PRESENT.	
414.0				GY			V	20		1	2	0.5		2							100	35209	1.5	BLACK ARGILLITE. CAL + PY VEINLETS WITH VUGS PRESENT	
415.5							V	25		1	1	0.5		1							100	35210	1.5	SAME AS 414.0	
417.0										1	-	0.5		0.5							100	35211	1.5	DARK GREY TO BLACK ARG.	
418.5							V	30		2	-	0.5		0.5							100	35212	1.5	QTZ VEINLETS ALONG INTERVAL	
420.0										2	-	0.5		0.5							100	35213	1.5	SAME AS 418.5	
421.5										1	-	0.5		1							100	35214	1.5	QTZ VEIN @ 421.45-421.50	
423.0							V	40		10	-	0.5		1							100	35215	1.5	QTZ VEIN @ 422.25 TO 422.35	
424.5							B	45		1	-	0.5		1							100	35216	1.5	PY BEDS LOCALLY NOTED	
426.0										3	-	0.5		2							100	35217	1.5	QTZ VEINLETS AND PY BEDS ALONG INTERVAL	
427.5										2	-	0.5		1							100	35218	1.5	SAME AS 426.0	
429.0					SER					1	-	0.1		0.5							100	35219	1.5	MEDIUM TO DARK GRAY, CHLORIT BEDS PRESENT.	
430.5							B	25		10	-	0.1		2							100	35220	1.5	QTZ VEINING FROM 429.0 TO 429.5. @ 429.5-430.4 BLACK ARGILLITE WITH THIN BEDS OF PY.	
432.0					SER					1	-	0.1		0.5							100	35221	1.5	FROM 430.5 TO 432.0, MEDIUM GRAY ARGILLITE - HIGHLY SERICITIC BEDS OF SER-CHL LOCALLY ABUNDANT	

Dist	Rock Description						Structure		Alteration Parameters (%)											RQ	Sampl#	Wth	Comments		
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp					Mt	
433.5	M	NEG	COT	GY	SER3	5a				5	-	0.1		0.5								100	35222	1.5	GRY SPOTS ALONG INTERVAL
435.0										20	-	1		0.5								100	35223	1.5	QTZ VEIN @ 435.3 TO 435.6
436.5										5	-	0.1		0.1								100	35224	1.5	LOCALLY DARK GREY.
438.0										15	-	0.1		0.5								100	35225	1.5	QTZ VEIN @ 437.1 TO 437.2
439.5						SER2				10	-	0.1		+								100	35226	1.5	DARK GREY, ICHL ALT. QTZ VEIN @ 438.85 TO 439.00
441.0						SER1				30	-	1		+					0.1			100	35227	1.5	FROM 439.5 TO 450.7. DARK GREY TO BLACK ARGILLITE QTZ VEINLET OR VEINS WITH PY ± ASPY ± ANK. PY AND ASPY LOCALLY FOUND IN ARGILLITE MATRIX.
442.5							V	35		20	-	1		1					0.1			100	35228	1.5	
444.0										5	-	1		2					0.1			100	35229	1.5	
445.5										5	-	0.5		1					0.1			100	35230	1.5	
447.0										3	-	0.1		0.5					0.1			100	35231	1.5	
448.5										5	-	0.5		1					0.1			100	35232	1.5	
450.0							V	40		13	1	0.5		2					0.1			100	35233	1.5	@ ALT + PY VEIN, 2cm wide, @ 449.28 TO 449.30
450.7							B	30		15	-	0.5		0.5					0.1			100	35234	1.7	



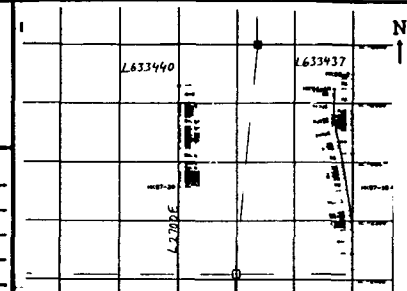
Dist	Rock Description						Structure			Alteration Parameters (%)														RQ	Sampl#	Wth	Comments									
	Com	Grs	Text	Co	Alt	Name1	B	A1	F A2	Qtz	Cal	Ank	% <sup>g</sup>	PY	PO	Cpy	Sph	Asp	Mt																	
																																				MINERALIZED ZONE (450.0 TO 474.4) QTZ VEINS/FLOODING (FROM 10 TO 30%) INCLUDED IN A MEDIUM TO DARK GRAY ARGILLITE/SILTSTONE FROM 450.7 TO 463.1 AND 476.5 TO 479.4 AND IN IF CHL 463.1 TO 476.5. PY (TO 10%), ASPY (4.1 TO 3%) MAINLY PRESENT IN THE QTZ VEINS/FLOODING BUT ALSO IN THE MATRIX. ANK IS PRESENT IN QTZ VEIN VARIABLE. SER + CHL ALTERATION CHL IS ALSO FOUND AS THIN BEDS OR AS STRINGERS/SATS IN QTZ VEINS. PY AND ASPY VARY FROM FINE TO COARSE GRAINED
452.0	M	UFG	COT	GY	SEB	S				10	1	1		1					0.1							100	35235	1.2								
453.5										20	0.5	2		2					0.5							100	35236	1.5								
455.0										20	0.5	2		3					1							100	35237	1.5								
456.5							N	30		10	0.5	1		1					0.1						100	35238	1.5									
458.0							B	25		7	0.5	1		2					1						100	35239	1.5							BED OF SILTSTONE (GNESSACE?) @ 456.75 TO 456.90, CONTAIN FINE GRAINED PY AND MEDIUM GR ASPY BOTH 10%.		
459.5										30	3	1		5					1						100	35240	1.5							DAKE VEINLETS/STOCKWORK WITH VUGS @ 458.40 TO 458.55		
461.0										20	0.5	1		3					2						100	35241	1.5									
462.5										30	0.5	2		5					2						100	35242	1.5									
463.1										20	-	1		3					1						100	35243	0.6							END OF ARGILLITE SECTION		

Dist	Rock Description						Structure			Alteration Parameters (%)											RQ	Sampl #	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	Py	Po	Cpy	Sph	Asp	Mt					
464.6	M	VFG	RED	GY	SER	FCHL				3	-	0.1	1					0.1	100	35244	1.5	BEGIN OF FCHL. MED GREY SER FCHL SEDIMENTS WITH BEDS OF M&N + TUFF		
466.1							B	25		20	-	1	2					0.5	100	35245	1.5			
467.6										40	-	1	4					1	100	35246	1.5			
469.1										2	-	0.1	0.5					0.1	100	35247	1.5	10% OF MAGNETITE BEDS		
470.6							B	30		1	-	-	0.5					0.1	100	35248	1.5	BLACK GRAY. SEDIMENTS		
471.8							B	20		15	-	0.5	4					1	100	35249	1.2	RY RICH SECTION C 71.5-74.70		
473.0	M	VFG	CUT	GY	-	GV				60	-	3	10					5	100	35250	1.2	FROM 471.8 TO 475.0 QZ V. ANK AND ARGILLITE PRESENT. PY AND ASPY MEDIUM TO COARSE GRAINED		
474.0										40	1	3	15					5	100	35251	1.0			
475.0										70	1	2	15					5	100	35252	1.0			
476.5			CUT				Sa	R	10	20	-	1	20					2	101	35253	1.5	DARK GREY ARGILLITE. PY + ASPY LOCALLY SEMI MASSIVE		
478.0										10	-	0.5	5					1	100	35254	1.5			
479.4										15	-	1	5					1	100	35255	1.5	END OF MINERALIZED ZONE		
																							POLYMETIC CONGLOMERATE	
																							MEDIUM TO DARK GRAY. ROCKS TO ELONGATED CLASTS. MAINLY SEDIMENTS ALSO QZ TUFF AND MINOR INTRUSIVE ROCKS NAME	

Rock Description							Structure				Alteration Parameters (%)													Comments			
Dist	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	% <sup>q</sup>	Py	Po	Cpy	Sph	Asp	Mt	RQ	Sampl#	Wth	Comments			
																									2AVE QTZ VEINS WITH AMP PY LOCALLY PRESENT IN MATRIX ARE IN CLASTS ALBICITE TO GREWALS MATR LOCALLY SANDSTONE ANK SER AND CAL ALTERATION.		
481.0		MICG	BED			5c					1	-	0.5		0.1							100	35256	1.6			
482.5											1	-	0.5		0.1								100	35257	1.5		
484.0											2	-	0.5		0.1								100	35258	1.5		
485.5											2	-	0.5		0.2								100	35259	1.5		
487.0							U	35			1	-	0.5		0.1								100	35260	1.5		
488.5											1	-	0.5		0.1								100	35261	1.5		
490.0											1	-	0.5		0.1								90	35262	1.5		
491.5							U	40			1	-	0.5		0.1								100	35263	1.5		
493.0											1	-	0.5		0.5								50	35264	1.5		
494.5											1	-	0.5		0.1								100	35265	1.5		
496.0							B	35			1	-	0.5		0.1								100	35266	1.5		
497.5											1	-	-		0.1								100	35267	1.5	BLACK ALBICITE SECTION	
498.6							V	45			10	-	-		-								100	35268	1.1	QTZ FLOWING @498.2 TO 498.6	
505.7							U	40			0.5	-	-		0.1								100	35269	7.1	GRAB SAMPLE	
507.8											10	-	0.5		0.5									100	35270	1.5	QTZ vein @ 505.7 TO 506.5



HOLE #: ~~2703-01~~ **NORTHING: 2070** **EASTING: 2700** **ELVN: 3000** **LENGTH: 270**  
 TWP: Noseworthy Drilled by: Bradley Logged by: R Barber Start: Feb 13/97  
 Claim: L633930 Core Stored: Timmins Casing/Size: 49m NW casing Finish: Feb 16/97



Dist	Azim	Dip	Dist	Azim	Dip	Dist	Azim	Dip	Dist	Azim	Dip	Purpose/Results:
0	180	-51										Test HLEM conductor NW of AD Area
120	180	-51.5										15h samples. Conductor ducts graphitic argillite. Strong seric-ank alth
246	180	-52										

Dist	Rock Description						Structure				Alteration Parameters (%) in sheared sed from 49-57.5											RQ	Sampl#	Wth	Comments				
	Com	GrS	Text	Co	Alt	NaMel	B	A1	F	A2	Qtz	Cal	Ank	‡	Py	Po	Cpy	Sph	Asp	Mt									
0																												0-49 Casing	
49																												49-57.5 Highly Seric'd & Deformed Sediments	
49.4																													
50.2	S	F	SHD	66	SER	5ajs	F60			5		1		2											50	35501		Lt. gg f. gy, strongly fol'd, low seric'd, strongly seric'd carb'd (ank). Becoming lighter gy, more seric'd down hole. Qtz stars & banding masses throughout 1-2% f. does & fol'n 1/4 py, low 7-5%	
50.9	"	"	"	"	"	"	F40	F30	7			1		1												50	35502	Minor bn four in gte stgrs at 52-4 cm in cleavage at 60, fol'n near 0 at this point.	
52.2	"	"	"	"	"	"	F20			20		1		2												30	35503	low lt gy ank in gte stgrs gys mellede. Lt. gk seric'd chears. 1% bn four in gte stgrs	
57.6	M			GY		RV	F5			80		1		2												70	35504	RV - Lt. gy-wh shear vein w. py along seric'd inclusions	
53.8	SS	F		GY		SER	5ajs	F0		10				1												60	35505	Lt. gy seric' alth	
54-1																													
55.15	S	F	SHD	GP		SER	5ajs	F45		1				2												70	35506	" " " "	

Dist	Rock Description						Structure		Alteration Parameters (%)											RQ	Sampl #	Wth	Comments					
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	% <sup>g</sup>	Py	Po	Cpy	Sph	Asp					Mt				
56.2	S	F	GHD	GY	SER	Sa's	F	0	J	25	5				3								80	35507		55.15-57.5: Dendritic blotchy		
57.1	"	"	"	GG	CHL	"				7					2									35508		chl at 1/4 grad appears along		
57.5	-	-	-	-	-	LC																					Transition to small sericite coat	
58.7	SS	F	GHD	BK	-	Sgr				5	5				7								30	35509		lower content of unit 1/4 in loc place		
																												57.5+14965: Graphitic Acgillite
																												- Fine grained, black, highly graphitic strongly fol'd. Much deformation - 2-50 µm, dill torn'd into bands. Some broad bands of py containing 2mm qtz grains near upper contact. Py in sect. is loc'y pitted by weathering.
59.8	"	"	"	"	-	Sgr				20	10				2									70	35510		58.7-62.65: Non qtz-cal started	
60.2	"	"	COT	GY	-	LC				50	10				2									50	35511		rem. F-cg py in veins & ultrafine	
62						LC																						
62.65	B	F	COT	GY	-	Sgr				40	5				5									50	35512			
63.5	"	"	RUB	BK	-	"	F	45		10	5				5									20	35513			
64.05	S	"	COT	GG	SER	Sa	F	10		10		50			10									100	35514		Highly shear ed inclusion(?) F-mg	
64.45	B	F	SHD	BK	-	Sgr	F	45		2	1				5									0	35515		Very sub. py	
65.0	-	-	-	-	-	LC																		0				
65.4	B	F	COT	GY	-	Sgr				40	5				10									0	35516		strobomiles 90° FLCA	
66.7	"	"	"	"	-	"				110	2				10									10	35517			
68.0	"	"	"	"	-	LC																		0				
69.5	B	FC	BKX	GY	-	FZ				130	5				5									10	35518		68.3-69.5: Fault-BKX: Highly	
70	SSS	F	COT	BK	-	Sgr	F	60		110	2				5									50	35519		- Graphitic matrix vs 30% angular qtz-cal vein frags 5% fq. dill py in matrix loc'y up to 7 µm py	
71	-	-	-	-	-	LC																		0				
71.75	SSS	F	COT	GY	-	Sgr				130	5				5									50	35520		At. qtz & lvs vs pitted graph incls & pitted py. At. loc'y very along with con tact	
73.2	"	"	"	BK	-	Sgr				5					2									20	35521		- metallic banded & nodular py	

Dist	Rock Description					Structure		Alteration Parameters (%)											RQ	Sampl #	Wth	Comments								
	Com	Grs	Text	Co	Alt	Na	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp					Mt							
93.75	S	FM	MOT	GY	CHL	Ss								2									AX35522					Coarse grained basic amphibole 1-4.5mm anhedral prismatic blasts both contacts fresh at ground.		
75	S	F	SHD	BK		5gr				3				5									523							
78.6	"	"	"	"	"	"				1				2									524					grab nodular py		
79.6	"	"	"	"	"	"				15				2									525							
80						LC																								
80.9	S	F	SHD	GY	CHL	Ss					1			10									35526					Ac 78.2-78.75, bedded py		
81.9	"	"	"	BK		5gr								5									527							
82.7	"	"	"	"	"					2	3			5									528							
83						LC																								
95	S	F	RED	BK		Sagr	F	65			1			15									529					83-110.4 Competent, wky shear graphitic anthillite 10-15/ft 40% py, 1-3% nodular py Kudat stretched 5:1 along bedding foln. loc. ant stress.		
96.2	"	"	"	"	"	"								20									530							
97.5	S	F	SHD	BK		Sagr	V	40		5	1			20									531					wk gtz-ank str zone.		
98.5	"	"	"	"	"	"				1				10									532							
109.4	"	"	"	"	"	"				1				10									533							
110.4	"	"	"	"	"	"				.5				10									534							
111.4	"	"	"	GY		5sgr	B	45						8									535						110.4-1221 Graphitic siltstone 1st mod at each end of silty beds w/ black graphitic org inter beds 10-5-5cm thick. 1-5% wispy gtz ice stags 5-10% granitic granulated py beds + dss on silt/arg 1. beds loc. shear & folded	
116.4	"	"		RED BK		5sgr				1	1			5									536							grab
117.4	"	"		"		"				.5				5									537							
118.3	"	"		SHD		"	V	35	5	70	130	10		5									538							str-dal-alc str zone, gran'n decrease in Wt% at 110°
122							F	25			.5			2									539							120.5-120.6 Graphitic Goudge grab
123.1							F	60		1	.5			3									540							

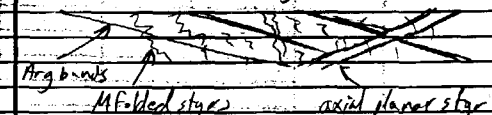
Dist	Rock Description						Structure				Alteration Parameters (%)													RQ	Sampl #	Wth	Comments									
	Com	Grns	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank		%	Py	Po	Cpy	Sph	Asp	Mt															
																																		123.6 = Seric/d Siltstone Argillite Fg. at g. thin - med bedded w. low Mg - black graph. argillite beds up to 30cm thick. Slightly seric'd - ink'l throughout. Bedding low v. con for top 1m - 2% fg. calc py throughout. Initially much as above but grad more ser'		
123.4 124.8	S "	M E	MBX RED	WH GY	- -	QV SS						60 55				70																	AX35541 542	Vuggy gtz - creamy pink/dol with Tracey contacts		
																																	-124.6-124.8 Silty bed continuing 1-10mm long rounded arg. clasts (crg = up)			
126 126.9	" S	" "	" "	" "	RD SER	SS SS																														
127.9 128.7	R "	" "	RUB "	" "	" "	" "																														
129.3 129.9	" S	" "	" SHD	" "	" "	" "																														
130.6 131.85	" "	" "	RED "	" "	" "	Sagr Sa, sgr																														
132.6 134	" "	" "	" "	" "	ANK "	" "																														
134.7 135.7	B "	F "	XUB "	GY BK	ANK -	" "																														
136.7 137	" "	" "	" "	" "	" "	" LC																														
138.5 139.7	S "	F "	RED "	GY "	" "	Sagr "																														
140	"	"	"	"	"	LC																														



Dist	Rock-Description					Structure				Alteration Parameters (%)										RQ	Sampl #	Wth	Comments	
	Com	GrS	Text	Co	Alt	NaM1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	PO	Cpy	Sph	Asp					Mt
140.8	S	FM	ROT	GY	ANK	Sa, gr					10	20		2							70	MS558		140-144 wk gr-ank/dol
141.8			RED							12				5							60	559		4gr zone
143							F 70	V	45	10	1			5							50	560		
144							V 30			10	1			5							70	561		
145.1										2				5							60	562		145.1-149.65 Semi-Massive
146.1	M	FC		VL		TFs					5			50							100	563		Non-lam Pyrite
147.5											5			80								564		graphitic matrix, cal halos
149											5			80								565		around nodules, Nodules zoned
149.65											5			80								566		1-2 cm diam, stretched 2:1 to 5:1
150.7	S	F	RED	AK		Sa, gr	F 40			2				2							90	567		
151.7	"		ROT	"		Sa				2	10			3							100	568		
153.1	M		SHD	GY						2	3			2								569		149.65-169.3 Carbonaceous Argillite
154.1	"		"	"						5	10			1								570		Fg, wk gy - bk, poorly bedded
154.6						LC															0			carbonaceous but not really
155.5	M	F	SHD	GY		Sa	V 35			30	40			5							100	571		graphitic, wavy stz - ank/dol
157										5	2			1								572		stz - v lcts throughout
158.5										5	5			1								573		Major - 2/3 fine gr. stz
159.2							V 0	T	50	8	2			5								574		stz - often pyromorphic
159.6										10	20			2								575		wk - strongly folld throughout
164										1	1			3								576		
162.3							V 0			7	5			2								577		
163.2										5	15			2								578		
164										2	3			2								579		
165.5										10	10			2								580		
167										5	10			7								581		167.3 - 171.3 Serrated Argillite
168.5			BED							7	2			2								582		fg - gg mod - strongly serrated
169.3			BED							1	7			2								583		traced by 1/2 wk stz - gy ank stz
170.3							B 90			1				5								584		Minor Fg disc py Tr Min. Fg yellowish
171.3										1	5			5								585		transverse
174.3						Sa, S				5	2			1								586		
188										7	7			5								587		
202.6							B 20			7	1			5								588		169.3-235.6 Argillite/Siltstone
203.6														5								589		As 149.65 - 169.3 weifer

169.3-171.3 Serrated Argillite  
As 149.65 - 169.3 weifer  
gr-ank stz - wk stz - should  
be sampled in detail at  
prev. unit - runs fine grained  
generally less sheared, more silty  
bands  
wk fault at 189.6-189.8

Dist	Rock Description						Structure				Alteration Parameters (%)										RQ	Sampl #	Wth	Comments		
	Com	GrS	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt						
203.9	M	F	COT	GY	-	Sa.5	V	10		15		5		1										AX35590		Slightly bandingd RAV less thick
204.9			BED																					591		
205.9																								592		Lt. pk. dol. st. grad. 207.5 @ 45° PCA
206.6																								593		206.6-215.7 Btr Ank Stgr Zone
																										Incr. gte & wht. grey ank stgr. usually bandingd and at very low angle to core width of interstrat. is magn. 1-5% f-mg desc tuffwork-like in some but little in wallrock. Py. loc. pitted in each. Xk faces visible in pits. Bedding in org. wallrock highly variable. Loc. disrupted by bandings. Wallrock loc. w/ky ank'd but essentially unaltered.
208.57	M	F	BED	GY	-	Sa.5	V	5	V	30	30	2		1			.1							594		Fr. sph. 1.5-2cm RA stgr
209.7		"	COT		-	"	B	10		10				2										595		
210.9		C	"		-	RAV	V	5		70	10			.5										596		RA. stgr 2-3cm thick, pitted py
211.8		F				Sa.5	V	5		2		1		.5										597		
212.8		MC				RAV	V	5		60	10			2			.1	1						598		1-2mm asp stgr 11cm near out contact.
214.3		F	BED			Sa.5				1				.5										599		
214.8			COT				B	40						.1										600		
215.7							V	5	B	0	20	5		3										601		
217							B	40		15		1		.5										602		
222.4			BED				B	45		1		.5		1										603		grab sample
223.4							B	60		5		.5		1										604		
223.7							V	15	B	60	10			.5										605		5-10cm wide, gte stgr, bandingd stgr. 11 cm near out contact in bedding
225	"	"	"	"	-	"	B	60		1				2										606		
226.5						"	V	15	B	45	2			1										607		
227.8						"	B	35		1				1										608		

Rock Description							Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments		
Dist	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt							
228.8	M	F	COT	GY	-	Says	R 10	V	15	30					.5									609		228.8 - 229.7 Highly deformed zone	
229.7			COT	GY	-		R 0	V	55	30					.5									610			
231.2							R 0			15					.5									611			
232.5							V 35			10					.1									612		Well defined cill/lrg bands at low angles to core (15-20) of cut by strongly M - folded gtz. Argill. having axial direction of 55° TCA. Also cut by gtz strike & lds at 15° TCA in opposite direction. These are // axial plane of the M-folded str.	
																											
234	M	F	BED	GY	-	Says				5					.1									613			
235.6	"	"	"	"	"	"	B 30			1					.1									614		Rip-up clasts 234.2 - 234.4 235.6 - 278 Chloritic IF Mainly fg, dk-gr, poorly laminated strongly chl'd, argillite, loc'y sheared and/or contorted. 5% cream-coloured, 25-50mm carbonated(?) speckles. Min-2% waxy gtz - cal strgs throughout. Much yellowish-brown, laminated cherty - tuffaceous bands, loc bk mag bands, int near tuff bands, but actually fairly rare. In contact of unit is strongly sheared.	

Dist	Rock Description					Structure		Alteration Parameters (%)													RQ	Sampl #	Wth	Comments			
	Com	Grns	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt							
236.8	M	F	SHD	GN	CHL	IFchl	C	40		5	2			1											615	In fissures band 236-238.4	
237.4	"	VF	COT	GY	SER	5+				2				5											616	Disct. Fract. Filling py	
238.4	"	F	SHD	GN	CHL	IFchl	B	15		1				5											617	Tuff band det. by py-ank & cal v.lch	
239.2	"	VF	"	YL	SER	5+				15	5	5		5											618		
240.4	"	F	"	GN	CHL	IFchl				1	1			1											619	Folded cherty tuff band at 239.8-239.8	
241.4	"	F	BED	BG	SER	5+	B	15		2	1			1											620	Cherty tuff bands X2	
242.7	"	F	"	GN	CHL	IFchl				1	1			5											621	" " " 241.8-242	
243.8	"	"	"	"	"	"				1	1			1											622	" " " 242.9-243.1	
244.8	"	VF	SHD	BG	SER	5+	B	15		5				1											623	" " " 243.8-244.2	
																											244.8-246.9 At a Flooded Zone
																											contacted zone at IFchl 5+
																											near fol in at 15-20 cut bedding
																											at 15 in opposite direction silicified
																											by py-ank flooding but no
																											discrete veins 1-5% pyroclastic
																											fract fillings. Tr-min py-v py disc
																											app
245.5	M	FA	COT	GN	CHL	IFchl				10				1												624	
246.9	"	FM	"	BG	SIL	5+	F	15	B	15	30			3												625	
248	"	F	SHD	GN	CHL	IFchl					1															626	
249.9	"	"	BED	"	"	"				1	1															627	
249.7	"	"	COT	"	SIL	"				30				1												628	At a Flooded zone at 248.8-246.9
251	"	"	BED	"	CHL	"					1															629	
251.8	"	"	"	"	"	"																				630	
252.6	"	VF	LAM	BG	SER	IFchl				1				2						20						631	Folded cherty tuff unit
253.2	"	F	BED	GN	CHL	IFchl																				632	
254.2	"	F	COT	BG	SER	IFchl								5	2					10						633	Folded cherty tuff
255.7	"	"	BED	GN	CHL	IFchl				2	1				1											634	
256.8	"	"	COT	"	"	"				10	5															635	contacted w/ky vein at zone 256-256.8
257.4	"	"	BED	"	"	"																				636	
258.3	"	"	"	"	"	"				10	10			1	5											637	W/ky pyroclastic starts, pyro in cherty tuff
259.3	"	"	"	"	"	"																				638	
260.6	"	VF	COT	BG	-	IFchl									1					30						639	
261.3	"	F	BED	GN	CHL	IFchl				1	2															640	
262.6	"	VF	COT	GY	CHL	5+				5	1			4	2											641	Mineralized cherty tuff, cubic pyro

Dist	Rock Description					Structure		Alteration Parameters (%)													RQ	Sampl #	Wth	Comments							
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt											
263.5	M	F	SHD	GN	CHL	IFcK1					5																		AX35642		
264.6			"	"	"	"				10					1						20								643		
265.2			RKX	GG						40					20						25								644		Well Mineralized zone. Py replacement
265.9			SHD	GN						5					5						30								645		mag bands in gtx. Placed zone.
267.3			RED							1																			646		thin thrust gouge / bre at 10' TGA
268.1			"							12																			647		
269.5			RED							11					3						15								648		
271			"							2	2				1						7								649		
271.7			"				V50			30					2														650		QAV 271.5 - 271.7
272.2			"							7	3				1														651		
274			"							5					5						25								652		
274.5			"							3	2																		653		
275.6			SHD				V20			20					5						40								654		QAV 275.2 - 275.6
276.8			RED							1					5						25								655		
278			"							2	1				1						5								656		FOH



Dist	Rock Description						Structure		Alteration Parameters (%)														RQ	Sampl#	Wth	Comments	
	Com	Grs	Text	Co	Alt	Named	B	A1	F	A2	Qtz	Cal	Ank		%	Py	Po	Cpy	Sph	Asp	Mt						
44.6	SS	F	SHD	GY	SEB3	Sech	F	50		2													80	AX35815		44.7-44.8 Atz-ank-dol Vlot (Foln)	
44.9	SS									20		10											50	816		Slightly fractured 1% dms	
46.3	B																						60	817		shaly py	
47						LC																					
48.3	SS	F		GY	SEB3	Sech																	60	818		47-50 Microchlorite section	
49.3	"									15					2								60	819		Foliated throughout w.	
50	B						F	70		20					5								70	820		near plane 35-40% ATZ, 2-5% small py bands 1mm thick graphitic near end w. highly bed'd gte stgs	
51.5						LC																	0			50-55.7 Graphitic Fault Zone	
52.8	B	F	RUB	BK		GFZ	F	45							5								0	821		Extremely broken core. Gravely	
53	"	"	"	WH		QU				50					10								0	822		seeds of almost pure graphite and "nuggets" of msiv. in interspersed	
54.8						LC																	0			with mod weathered pieces of highly graphitic argillite w/pts Blm lons.	
55.7	B	F	RUB	BK		GFZ				25					10								0	823		MAJOR FAULT	
																										55.7-68.5 Mineralized Sediments(?)	
																											Fg strongly sericid & ank'd w/ky mod ch'd, mod fol'd fairly homogeneous rich superficially resembles some sects of gte-argillite seen in AB area but contains no gte Probably highly altered greenish. Could also be gabbro. Very fractured broken core. 1-10% fms dms py as well as 1-10% f-mg stgs & fract filling py

Dist	Rock Description						Structure			Alteration Parameters (%)											RQ	Sampl #	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt				
57	B	FM	SHD	GY	SER3	Sgr								2							50	AX35824		
58.5	"	"	"	"	"	"				1				4							1	825		2cm gauge @ 70 TCA @ 57.6
58.8						LC															0			
59.8	B	FM	SHD	GY	SER3	Sgr								7							50	826		58.8 + 59.2" gauge @ 20-30°
61.3														10							1	827		TCA
62.3														15							1	828		
63.3														15							50	829		63.3 = 66.5 - rock appear tectonically
64.4										1				10							50	830		brnd
65						LC															0			
66.5	B	FM	SHD	GY	SER3	Sgr				5				15							0	831		RAV 66.2-66.3 v- 20% py in wall rock
67.3	"	"	"	"	"	"				1				7							0	832		+ve m
68						LC															0			
68.5	B	FM	SHD	GY	SER3	Sgr								10							0	833		68.15 - 2cm gauge angle uncertain 68.3 = 68.5 Broken to ground RAV w/ 16% py, num. graph. shears & inclusions
69.5	B	F	SHD	BK		Sgr								15							70	834		68.5 - 69.5 Graphitic Argillite
70.3	S	"	"	"	"	"															70	835		
71						LC																		
72	S	F	SHD	BK		Sgr				1				15							70	836		Fg. black, wky - strongly fol'd, matrix matrix has 10% nodular py 15-50% mag disc & star
84.3	M													15							100	837		bulky py near beginning of section - low porosity nodules beds are pulled apart and spines
85.3														10							1	838		filled w/ calcite - py nodules also have calcite pressure shadows - Num. rip-up clasts
85.6			BED	VL		IFs	B 35							90							1	839		
87.1			SHD	BK		Sgr	V 45			2				15							80	840		
95	S									12				20							100	841		
96.1														7							100	842		
96.4						IFs								85							1	843		
97.4	S		NOD	VL		Sgr	V 30			17				7							80	844		After 77m, argillite is somewhat lighter, w/ low py - silty beds. Still has nodular & bedded py
																								85.3-85.6 Massive Py Bed - 16 cal stgrs
																								96.18-96.4 Massive Py Bed



Dist	Rock Description					Structure		Alteration Parameters (%)													RQ	Sampl#	Wth	Comments		
	Com	Gr	Text	Co	Alt	Na	Al	F	A2	Qtz	Cal	Ank	Py	Po	Cpy	Sph	Asp	Mt								
98.2	S	F	SHD	GY	ANKI	5a, gr	V	35		20	10		5										AX35845	96.4-98.2	Wh gte-wh ank stgr	
99.5	"	"	"	OK						3			5										846	zone 5% stgr py		
105.4	M		BED	GY		5a, s, gr							5										847			
106.4	"		"	"		"							5										848	After 98.2, graph content diminishes considerably. Elastic silty beds becoming more common.		
107	M	F	SHD	GY	ANKI	5a, gr	V	30		30			4										849	106.4-107 RA vein zone		
108	"	"	BED	"	"	5s							2										850	Slightly conformed gte-ank vein		
109.5		FC	PLAS			"				2			3										851	stgrs w. shear texture		
																									108-109.5 Ltgy silty bed w. 5-10% 5-1cm rip-wackles overall elastic appearance. Poorly graded bedding suggests tops down-hole	
111	M	F	SHD	GY	ANKI	5a, s, gr	V	10		5			4										852	109.5-115.2 RV-stgr Zone		
112.5				OK						7			3										160	853	Wh-ltgy w/d shear veins + stgrs in graph arg/siltstone.	
113.3				GY						40			5										50	854	All at low angles to core. 1-2%	
114.4				WH		RV				70			3										50	855	arg embre by mica in wallrock, but some rd gtz. Tr A-mg H-mod	
115.2				GY		5a, s, gr				30			4										80	856	br sph. led to cylindrical tabular py?	
116.2										1			3										100	857		
117.6			BED							2			5											858		
118.5			"				B	40		20			5											859		
120			SHD	OK						5			5												860	
																										116.8-117.2 poorly graded bedding in silt bed suggests tops uphole
																										118.5-121 Folded-gtz threadite stgrs in graph arg. M folds on one side of core, 2 folds on one adjacent side, 5 folds on other adjacent side. Dip at stages in plunge of fold nodes is 45-70A
																										127.5-128.5 vlt gte stgrs

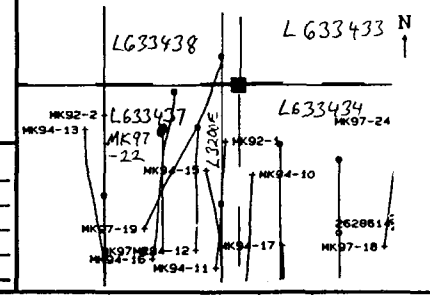
Rock Description		Structure				Alteration Parameters (%)														RQ	Sampl #	Wth	Comments				
Dist	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	Dol	%	Py	Po	Cpy	Sph					Asp	Mt		
136.7	M	F	RED GY			Sa, gr	B	30								3						40	AX35861		132-133.5 Min. rip ups in silt/grt		
137.7	S															3						100	862		but suggest tops uphole		
138.7	I							20			5					2						70	863				
139.7	I															5						80	864		137.75 dol-brk str 3-7mm wide		
150.8	SS															2						70	865		@ 25% TCA w- 20% ca 6 in sph.		
151.8	B		RUB													1						0	866		56 gtd str @ 15-20 TCA taken in		
152.8	R					ANK1										5						0	867		sample		
154.1	I										15					1						0	868				
155						LC																0			148.7-151.5 Broken, rubble zone		
156.5	B	F	RUB BK			Sa, gr					1					5						0	869		Pass fault zone		
157.1	B										10					2						0	870				
158						LC																0			151.8+152.6 Rtz dol str 1-1.5cm		
159.5	B	F	RUB BK			Sa, gr					2					2						50	871		wide; 1/1 to core 5-10% 1/1 ga		
161	M	F	RED GY			Ss					10					1						80	872		material, med ca PT - sericit apatite		
162.5						Sa, gr					8					2						100	873		4-6 in sph. Min - g py in wallrock		
164						Ss					15					1							874				
164.9						RAV					80					1								875		152.7-159.5 Locals - ank vlets F	
166						Sa, gr					2					5								876		starts in graph argillite 1-2%	
167.5			MSV			Ss					2					2								877		py in grt 2-5% py in wallrock	
169						Ss					1					1								878			
170.5						Ss										1								879		156.5-156.7 Graphitic Gouge	
171.6	SS		RED			Ss					5					1						50	880		STRONG FAULT		
																										159.5-162.4 Mixed Siltstone and	
																										Argillite	
																										Match as prev unit, but much more	
																										siltstone beds loc graph argillite	
																										More 5% no diss py, more	
																										concl'd argillite	
																											164-164.9 RAV - Brk d gtd
																											gy ank vein 10% 1/1 green sericit
																											at vein at 151.8-152.6

Dist	Rock Description					Structure				Alteration Parameters (%)											Sampl #	Wth	Comments			
	Com	Gr	Text	Co	Alt	Na	Al	F	A2	Qtz	Cal	Ank	% <sup>9</sup>	Py	Po	Cpy	Sph	Asp	Mt	RQ						
172.8	S	VF	GH	BK	-	S <sub>gr</sub>				10	5			5								AX35881		183.5-185.7 Qtz-cal stgr		
174.3	"	"	"	"	"	S <sub>gr</sub>				7				5								882		zone. stgr at 1/2 angle to		
181.6	M	"	BED	"	"	"	B	50		2				5								885		core: Mn- Mn-ph; could near		
182.6	"	"	"	"	"	"				5	.5			5								884		edges of stgr.		
183.5	"	"	"	"	"	"				4	1			2								885				
184.5	"	F	"	"	"	GY ANKI S <sub>s</sub>				5	5			1								886				
185.7	"	"	"	"	"	"	V	15		15	10			2								887		192.4-232.7 Graphitic Argillite		
186.7	"	"	"	"	"	"				5				1								888				
192.4	"	"	"	"	"	"								1								889				
209	M	VF	BED	BK	-	S <sub>gr</sub>								5								890		Mainly vfg, black graphitic		
223	"	"	"	"	"	"								5								891		argillite v. 5-10% gy siltstone		
224	"	F	"	"	"	GY ANKI S <sub>s</sub>								1								892		beds 1-20cm thick 1-2%		
225.5	"	"	"	"	"	"				5	5			5								893		gy bedded py 5-1cm thick		
226.5	"	"	"	"	"	S <sub>gr</sub>				1				5								894		as well as 5-5% P-mg disc py		
232.7	"	VF	"	"	"	S <sub>gr</sub>								2								895		and nodular py.		
251	"	F	"	"	"	S <sub>gr</sub>				5	.5			1								896		212-219 5% Qtz-cal stgr 30' ± 70° FCA		
																									223-226 Siltstone bed w/ wk Qtz-cal stgr.	
																									232.7 - Siltstone/Argillite	
																									At 192.5-192.4. Siltstone beds commonly 0.5-1m thick. Highly graphitic areas noted. Carbonaceous throughout. Mn- 5% py throughout. Mn Qtz-cal stgr throughout.	
																										238.5 Flame structures in siltstone bed suggest fang whole.
																									251.8-253.6 Graphitic argillite	

Dist	Rock Description						Structure		Alteration Parameters (%)											RQ	Sampl #	Wth	Comments						
	Com	Grs	Text	Co	Alt	Namel	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp					Mt					
271.1	M	VF	BED	BK	-	Sa,gr	8	40	F	50	.5	.5			3								AX35897		274.7-294.2	Graphitic Magnetite			
272.15							8	60							3											275.5	nodular to bedded py		
272.5			COT				V	70			35				2			.5									bedded py shaves S erupulelline		
273.5			BED												5												Angular planes are    to wk folia		
294.2												.5			3												at 50° TCA		
295.2		F		GY		Sa,s				1	1				2														
296.5			STWK			ANK1	V	25	V	45	5	5			2														
298										2	5				1													At 297.1 Bedding @ 35° Pol'n	
299			BED				8	45		1	2				1												@ 5-10.6m Pol'n cross'd w/		
300												.5															secondary folia developed @ 70° TCA		
306.6															1												Intersects 1st folia @ 80° bedding		
307.6															1												@ 85°		
308.7						CA#3	V	30		3	80				.5														
309.7															1														
325.6						Sa,gr									1		.1											272.15-273.5 conformed QV zone	
326.6		VF		BK		Sa,gr									1													27.4-mg disse py, min bn sph	
326.9			SHD				V	30			20				5			.5										281 Bedding @ 40-60° TCA	
327.9			BED												2														
																													284.5 py beds folded into
																												"bullseye" pattern w/ secondary	
																												folia @ 65° TCA is axis of folded	
																												beds. other axes is 5° TCA +	
																												crosses 1st at 85° angle	
																													295.2-299 w/ qtz-cd stg zone
																													5-9m stg @ 25-45° TCA
																													Hosted in siltstone bed.
																													307.6-108.7 Mid-qtz/cd zone
																													w/ 5% qtz-cd stg
																													326.6-326.9 Sheared & slightly
																													conformed qtz-vein zone. Min bn
																													sph 5% f-mg disse & stg py.
																													333 - Bedding @ 40° cut by wk folia
																													@ 55° TCA. w/ bedding @ 60°

Dist	Rock Description						Structure				Alteration Parameters (%)													Sampl #	Wth	Comments	
	Com	Gr	Text	Co	Alt	Names	B	A1	F	A2	Qtz	Cal	Ank		%	Py	Po	Cpy	Sph	Asp	Mt	RQ					
336.9	M	F	RED	GY	-	Sa, sgr																			AX35915		337.9-339 Atz-eal stockwork
337.9			SHD			"									.5										916		zone, in fg, siliceous chert, chert
339			BRN		ORL	5-ht				10	10				.5										917		wky brx d.
340			RED			Sa, s									.5										918		
359			"			"						.1			.5										919		343.3-343.5 Graphitic Fault 2cm gauge to 14pk dol brx stgrs @ 30° T&A
																											353-359 Loc'y contorted bedding.
																											359 EOH.
																											NW casing left. Hole could be extended to test secondary conductor to south.

HOLE #: ~~MK97-22~~ NORTHING: 20705 EASTING: 3100 ELVN: 3099 LENGTH: 319.6  
 TWP: Noseworthy Drilled by: Bradley Logged by: R Barber Start: 16/02/97  
 Claim: L633437 Core Stored: Timmins Casing/Size: 61m NW + BW Finish: 20/02/97



Dist	Azim	Dip	Dist	Azim	Dip	Dist	Azim	Dip	Dist	Azim	Dip
0	180	-51	250	180	-48						
70	180	-51	310	180	-41						
130	180	-50									
190	180	-49									

Purpose/Results: Test 3200 Vein  
at -275m level  
154 samples. Py-po-asp  
mineralization intersected in gray matrix

Dist	Rock Description						Structure		Alteration Parameters (%)											Sampl #	Wth	Comments						
	Com	Grs	Text	Co	Alt	Nacl	B	A1	F	A2	Qtz	Cal	Ank		Py	Po	Cpy	Sph	Asp				Mt	RQ				
0																												0-61 Casing
20.3						CAS																						
60.6	S	F	BRX	NH	OXD	RV				85				10											50	AX35657	60.3-60.6 Mineralized Qtz Vein. Probably a boulder, possibly subcrop	
61						CAS																						61-124 Mixed chloritic Iron Formation and cherty tuffs Broken, rubble core. Vfg. laminated beige to yellowish cherty tuffs interbedded with fgy, dk dkccn poorly laminated sediments containing num. speckles of white seric. Also interbedded w. magnetite, IF. Minor - 1% py, mainly along fracture - W. py etc. - cal signs throughout. Cherty tuff more common in last 50m of unit. 61-64m 0.5m lost core 65-67m " " " 67-70m 1.2m " "
71	B	F	RUB	BG	GER	St, chl				1	1			5										50	35658	grab		
72.1	M		CAM	"	"	st				1	1			5										70	659			
73.3			BRX	"	"	"				30				2										90	660	qtz brx zone		
74.3			SAD	SN	CHL	IFchl				5	2			2										90	661			

Dist	Rock Description						Structure				Alteration Parameters (%)													RQ	Sampl #	wth	Comments		
	Com	GrS	Text	Co	Alt	NaMel	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt									
79	M	F	BED	BK	SER	5+																		80	AX35662		grab		
80.2			SHD	GN	CHL	IFchl																		100	663		80.2-82.5 Oxide IF w. wk gte		
81.4			LAM	BK	-	IFo	B	10		5				.5									90	664		remains Mn - 1% by diss py. Pss			
82.5			"	"	-	IFo				5				1									80	665		tr rly asp.			
83.5			SHD	GN	CHL	IFchl				1				1									20	666					
84.5			"	"	"	IFchl				15				1									10	667		82.5-85.8 Sheared, chloritic			
85			-	-	-	LC																	0			IF, strongly fold. Wk gte stages			
85.8	M	F	SHD	GN	CHL	IFchl	F	3		12				1									15	100	668		11 fol'n 1% diss py d. tr by diss		
91.7	B	"	BED	GN	CHL	"	B	10		17	.5			.5									5	70	669		assy!		
92.7	M	"	SHD							3		1		1										80	670				
94.2			"				F	30		20	5			1										90	671		Qtz and vlets // fol'n		
95.2			"							1				1										80	672				
96.5			"							1				.5									.5	80	673				
97			-	-	-	LC																		0					
98.1	M	F	BED	GN	CHL	IFchl				1				.5	1								.5	90	674				
99.1			"			"	B	35																2	90	675		1st 30' in hpx'd.	
100.6				BK		IFo				3		2		.5										70	100	676			
101.4						IFchl				.5				1										80	677				
101.7			-	-	-	LC																		0					
102.7	M	F	BED	GN	CHL	IFchl				1		1		1										15	90	678			
103.3										5		1		2										30	100	679			
104.3										.5				.1										80	680				
105.7										1				.1										100	681				
106.8										1				1										30	100	682			
108.3						IFo				2				2										80	70	683			
108.9			-	-	-	LC																		0					
109.7	S	F	SHD	GN	CHL	IFchl				10		5		5										5	70	684		sheared near cherty tuff head.	
110.7	M	"	"	"	"	"				5				.1										10	50	685			
111.5			RUR											1											30	686		111-113.9 Rubbly Fault Zone	
112			-	-	-	LC																			0				
112.7	S	F	SHD	GN	CHL	IFchl	F	0						2										30	10	687		sheared IF w. py along fol'n	
113.9			-	-	-	LC																			0				
114.6	S	F	SHD	GN	CHL	IFchl				1				2											100	688			
120.8	M	"	BED				B	35		1				1										1	689		grab		
121.8														.1										5	690				
122-3										15				1												691		Wk BAV at contact w. cherty tuff.	
123-4						IFo	B	40		.5				1										40	692				

Dist	Rock Description						Structure		Alteration Parameters (%)												RQ	Sampl #	Wth	Comments	
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt					
123.8	B	F	RUB	GN	CHL	1Fchl	V	20		10		5									0	AX35693		RAV - vuggy qtz + vuggy py	
124					LC																				124-126.9 Shear of Argillite
124.6	S	F	SHD	GB	CHL	5a															50	694			
125.5	S	"	"	"	"	5a	F	40		15					2						60	695		5.0 dk green-black, well checked (filled) with banding of qtz + ant stgs contained in fill. 1-2% 1/8" py // fol. - gradational in contact, sharp out contact	
126					LC																				
126.9	S	F	SHD	GB	CHL	5a				20		2		1							70	696		126.9-142.8 Conglomerate / Tuff	
																									lt - mod gg - gy, strongly fol'd with many clasts showing elongation of 5:1 to 10:1. Previously called conglomerate, this unit has no gv clasts + consists entirely of volcanic clasts in a fgserv-chl matrix. lam gtr eyes very visible in matrix. Loc dk gy at gtr bands up to 7cm long. Loc wk gtr - ant stgs + veining, almost always banding. Mod cerv. d + chl. up to 2% py Loc py, but usually in gv zones
128	S	C	FRAG	GG	SER	5a	C	55		1											80	AX35697			
129.5							F	35													100	698			
131										1													699		131-133.6 ut gtr zone, loc py vuggy. 1% 1/8" pk dol.
131.9										7		3			.5								700		
133										5					1								701		
133.6					GY	CHL				10					.5								702		1/2" gouge at 127.9 // fol.
134.6					GG	SER				2					.5								703		
141.8			CLAS	"	"		F	40							.1								704		
142.8					"		C	45							.1								705		
																									Note: Unit is a conglomerate later seen to contain well rounded clasts of REP clasts. Identified to unit called conglomerate in the A8 area.





Dist	Rock Description					Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments						
	Com	Gr	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank		% <sup>G</sup>	Py	Po	Cpy	Sph	Asp					Mt					
178.4	M	F	MSV	GY	CHL	5g																					AX35728		175-178.4 grtcs unit gradually gets darker & finer grained	
178.8	S		SHD			5g	E	30		10					5													729	Lower hole host 30cm is a strongly folded, wh. carbonaceous argillite	
180	B		RUB			5g	E	45							1													730	v. fol'n ll grt-ank and py if for.	
181.5	M	FM	BED			5g	B	40							2													731	This interval may represent the top of a Bouma sequence?	
183															1	3												732		
184.5			MSV												1	5												733		
186															5	3												734		
187.2															1	2												735		
188.7															5	5												736	178.8-188.7 Qtz/Sulphide rich Grtcs	
190															1	1												737	Much as main unit but with 20-25% clear 1mm grt eyes. Matrix also slightly coarser, more like a true sandstone. Contains 2-5% comb-like pyrobeds: 2-3mm thick and matrix pebbles (replacement?) 1-10mm in diam & slightly elliptical in one direction and 2'-20mm long & elongated    to wk fol'n/banding. Also 1-2% Py disc py in matrix. Also, there are thin black fracts & dendritic patterns roughly    bedding/fol'n.	
190.9			SHD		ANK	5g									1													738		
191.9																												739		
192.9							E	45																				740	179.6-180 Rubby fault w. a little sandy gouge. Edges of fault e 70' & 50' JCA.	
																														190.4-192.9 Grad darker at wacke/grtcs. Strong sh-ank diff'n. Mod folds.

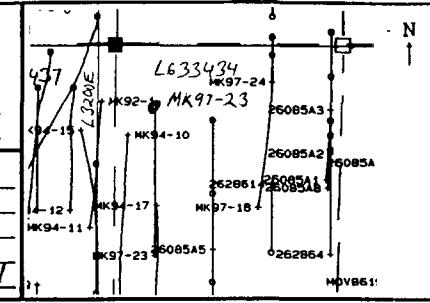
Dist	Rock Description					Structure				Alteration Parameters (%)											RQ	Sampl #	Wth	Comments				
	Com	GrS	Text	Co	Alt	NaM1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt								
194.1	S	F	SHD	GY	-	Sagr	C	45	F	10	40		10		+									AX 35741		192.9 - 204.6 Graphitic Argillite		
194.7	M		"	"	ANK	Sagr	F	20							3									742				
196.3	I		BRX	"	"	QAV	V	10			70		10		3									743		Fol dk gy - black, mod - strongly		
197.3	S		SHD	PK	"	Sagr																		80	744	Fol dk. Loc dirty gr like beds		
198.3	S		"	"	"	"																		72	745	up to 5m thick. W/ py & contacted. gtz - ank stars throughout 1-5% of kg disc cubic py & stgr py		
																											193.15 - 196.3 QAV	
																											Strong gtz - ank veins. Initially a gtz - foliated spear. Lt gy gtz - w/ gy ank throughout. 1-2% combined w/ g cubic py in wall rock & vein. Py fract filling & stgr py in gtz.	
198.8	S	MC	VAG	YL	-	IFs								70										60	746	Semi-massive, cubic, pitted, m-g py		
200.2		F	SHD	GY	CHL	Sa								10											747			
201.6	M													5	5											748		
203														1	4											749	198.8 - 204.6 Grading into dk gy	
203.9						SCL								1	4											750	argillite, to seric - ank alt'd	
204.6	S			GG	SER		F	45			5			6	2									50	751	arg. py nodules 2-5mm long grading py to no (replaced?) nodules down hole. More sheared & seric near end of unit.		
205.4	S	FM	SHD	GP	ANK	Sg					2			1											60	752	204.6 - 208.3 Greywacke / Qtz -	
206.4	M					"																			100	753	Greywacke	
210																											754	
210.8			MSV			SER																					755	Initially mod-dk gy chl - ank with 5% gtz grains. Grading down hole into strongly seric & ank'd, more massive unit as 158.1 - 192.9, & alternating w/ dark gr like again. Min - 16 py & gtrs / beds

Rock Description							Structure				Alteration Parameters (%)														RQ	Sampl #	Wth	Comments	
Dist	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt									
211	B	FM	SHD	GY	SER	Sg, g									5											AK 35756		2 faults w. msy py infilling	
212	M		MSV																								57	3mm int 7m thick, respectively	
216.4											5																58	at 2.01-3.0 TCA	
217.4					CHL	Sg									.1												59		
217.9											10				.5	+											60	217.4 + 217.9 Wk qtz stars zone	
218.9															.1												61	w. tr - 1/2 fgs - fgs diss asp.	
220					SCL										.1												762	more iron'd near star margins	
221.3													15		.1												763	Mica yellowish leucosene	
222.3															.5												764		
222.2							F 45				10				1												765	222.3 - 224.4 Wk qtz vein	
224.4											20				3												766	zone. Tr - 1/2 f-kg mainly	
225.4													10		.5												767	stubby asp. diss in wall rock	
226.4															1												768	Tr - main diss py tr po in stars.	
																													zoning wky - mid fld. locy green'd. Axer. f green'n at 55° TCA
228.4	M	FM	MSV	GY	SCL	Sg									.5												769	5cm gravelly fault @ 228.4	
229.3			BED				B 35								3	4											770	"bedded" po-py @ 35° TCA	
230.3			MSV												.1													771	
240.3					SER	Sg, g	C 45								.5													772	grabs, locy 1-2 1/2 py
243	S	F	LAM			Sg																					773		
244	"	"	"			"																					774	240.3 - 244. Argillite	
																													Fgs dk grey, v wky, seric'd spaced & can faulted toward lower contact
																													Gravelly Fault @ 240.7, 5cm wide
244.6	M	C	SHD	GY	SER	Sg	F 30				5				.1												775	244 - 247.6 Conglomerate	
245.6			CLAS												1													776	
246.6			"												.5													777	polythene, matrix supported
247.6			SHD				E 20				15				1													778	14 gys - gg, ferr'd, lky qtz stars. 10 clasts 5cm - 5cm long strs tubed up to 10cm strongly fold'd near contacts

Dist	Rock Description						Structure				Alteration Parameters (%)										Sampl#	Wth	Comments					
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt				RQ				
249	M	F	MSV	GG	SER	Sg																	AR 3579		247.6-254	Greywacke		
250.5															5								780					
252															5								781			Fol med fold, gg, med		
253															5								782			sericid. homogeneous greywacke		
254							V	30				5			5								783			bed. Minor ga stars. Tr + minor m-cg. diss. lubric. py.		
254.7	M	C	SHD	GG	SCL	5a	F	30		15		10		5									784			254-257.9 Conglomerate		
255.5										5					5								785					
256.2										10					5								786			As: 244-247.6 Many cherty		
257.1										5					5								787			clasts vs. py, po up to 10%		
257.9					SER					1				1									788			Minor fuchsite		
259	M	F	MSV	GY	SER	Sg						1		5	5								789			257.9-259.9 Qtz Eye Greywacke		
259.9	A	"	"	"	"	Sg	F	20						1	1								790			Eg: lt gy matrix w. 5-10% fine qtz grains. 1% py-po elongated clasts. 3 Black fract fillings. As interstitial from 178.8-188.7. Mod fold @ 20° TZA		
261	M	VF	SHD	GY	CHL	5a						1		5										791			259.9-269.3 Argillite	
262			LAM				B	10						1										792				
262.6			SHD				V	20		50		5		1										793			Apparently med gy strongly fold @ 10°	
263.5										1				1										794			TZA loc 2-3m long rip-up	
264.7										1				1										795			clasts (?) visible. Initially chld,	
266										5		5		5										796			grading down hole into gx-gg	
267										5				5										797			sericid arg.	
268.4	M	C	BRX	GY	SCL	QAV	C	35		60		10		5										798			Qtz Ank Brz Vein, GY gtz w.	
269.3	M	VF	SHD	GY	CHL	5a	B	10		5		2		1										799			lt bluish-gy wacke frags.	
270.3	M	FM	SHD	GY	SER	Sg	F	30		2				5													269.3-281.8 Qtz Eye Greywacke	
281.8			MSV																						800			lt gy, sericid, As 158.1-192.9
																									801			Min. lg cubic f. clothed dip.
																												279.2-279.6 Argillite bed.

Rock Description							Structure				Alteration Parameters (%)											Sampl #	Wth	Comments		
Dist	Com	Grs	Text	Co	Alt	Named	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt	RQ	Sampl #	Wth	Comments		
																									281.8-288.5 Argillite/Siltstone	
																									Lt = dk. gy, relatively thickly bedded siltstone beds up to 0.5m thick. Loosy with sherd. Tr - min f-ing dispy. Tr wispy qtz-ank stipes. Gradational in contact, out contact in vein zone	
287.2	"	"	LAM	"	"	"																			AN 35802	
288.2	S	"	"	"	"	"									5							50	803		QAV in contact zone veinlets	
288.7	S	"	SHD		CHL	CTZ	F35	V	35	30		10		1								50	804		out folia	
289.7	M	DM	MSV		SCL	5916									5							100	805			
307.8																						100	806		288.5-319. Qtz Fye Graywacke	
308.8																						100	807		Lt - mod gy, seric'd & mod chl'd. Much as 158.1-192.9. Tr - loosy 1% diss & "bedded" py.	
309.4	M	FM	SHD	GY	SCL	5911	F45			20		30		5	1							100	808		QA stgr zone II folia	
310.4	"	"	MSV	"	SCL	"									1									809		
319	"	"	"	"	"	"	F50			1					5									810		Eoff
																									Attempted to pull casing, but jammed. 61m of NW and 13W casing left in hole. Casing making water.	
																									All tests are acid tests, azimuth assumed to be straight. Sperry sun and Tiropani units both broke.	

HOLE #: ~~633434~~ NORTHING: 2100S EASTING: 3300E ELVN: 3650 LENGTH: 40.00m  
 TWP: NOSEWORTHY Drilled by: BRADLEY Logged by: ERIC GENEAU Start: 19 FEB 97  
 Claim: 633434 Core Stored: TIMMINS Casing/Size: NW/BW Finish: 23/02/97



Dist	Azim	Dip	Dist	Azim	Dip	Dist	Azim	Dip	Dist	Azim	Dip
0	180	-50	353	180	-49						
110	180	-52	401	180	-51						
230	180	-48									
293	180	-50									

Purpose/Results: TEST DOWN  
 DIP AWD STRIKE EXTEN-  
 SION OF 3200 VEIN IN  
 MK 94-10.  
 130 samples 3200 Vein intersected

Rock Description		Structure				Alteration Parameters (%) at 294.5-317.7												Comments							
Dist	Com	Grs	Text	Co	Alt	Na	Al	F	A2	Qtz	Cal	Ank		Py	Po	Cpy	Sph	Asp	Mt	RQ	Sampl#	Wth			
49.0					CAS																				46 m CAS NW, 49 m CAS BW
																									ARGILLITE/SILTSTONE (49.0 TO 189.2) - MEDIUM GRAY TO BLACK - TEXTURE: BEDDING TO FOLIATED - SEX + ANK, LOCALLY CHL ALT. - LOCALLY GRAPHITIC - BROKEN/BLOCKY @ 49 TO - QTZ ± ANK ± PY VEINLETS/VEINS LOCALIZED - PY: CUBIC IN MATRIX OR WITHIN VEINLETS BETWEEN BEDS
62.0	B	NFG	BEDGY	SERA	59.5					1	-	0.11		0.5							0	35281	13		GRAB SAMPLE. HIGHLY BROKEN LOST CORE @ 49-50, 0.4m, C 50- 53, 1.7m, C 53-56, 1.8m, C 56-59, 1.2m, C 59-62, 0.8m.
74.3	S				AK	59.9				1	-	0.11		0.5							20	35282	12.3		BLACK MINOR GRAPHITIC ARG LOST CORE @ 62-65, 0.2m, C 65-68, 0.3m @ 68-71, 0.2m, C 71-74.3, 0.4m. LOCALLY GRAPHITIC BLOCKY GRAB SAMPLE.

Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments	
	Com	GrS	Text	Co	Alt	NaM1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt						
75.0	M	VFG	BED	BK	-	50.90	B	40			10	-	-		0.5								90	35283	0.7	QTZ VEIN @ 74.45-74.55
79.9							B	45			1	-	-		0.5								80	35284	4.9	GRAB SAMPLE
81.5											5	-	-		1								70	35285	1.6	LOCALIZED QTZ + PY FLOODING
83.0							B	50			1	-	-		0.5								90	35286	1.5	BLACK ARGILLITE
84.5						GYSEL 50	V	60			3	-	-		0.5								70	35287	1.5	MEDIUM GYLEY, QTZ + PY VEINLETS PRESENT
86.0			COT								10	-	-		1								70	35288	1.5	QTZ FLOODING @ 84.5-84.58 & 84.9-85.0
87.5	B		BED	BK	-	50.90					1	-	-		0.1								50	35289	1.5	BLACK GRAB ARGILLITE, LOCALLY BROKEN BLOCKY.
89.0	M										10	-	-		1								95	35290	1.5	QTZ + PY VEIN @ 88.0 TO 88.15
90.5							V	60			3	-	-		0.5								80	35291	1.5	LOCALLY BROKEN, QTZ VEINLETS PRESENT (W/ PY)
92.0							F	15			1	-	-		0.1								75	35292	1.5	BROKEN @ 91.1-91.30, FAULT GOUGE @ 90.8-90.9, 15% LCA
93.5			COT	GYSEL							15	-	0.1		0.5								100	35293	1.5	MEDIUM TO DARK GRAB / QTZ + PY FLOODING @ 93.1-93.35
95.0											5	-	0.1		0.5								100	35294	1.5	LOCALIZED QTZ VEINLETS
96.5											5	-	0.1		0.5								100	35295	1.5	SAME AS 95
97.0											2	-	-		0.5									35296	1.5	FROM 96.5 TO 108.0
97.5											2	-	-		0.5								100	35297	1.5	BLACK, MEDIUM CLASTIC, ARG. 1-5% QTZ + PY + ANK VEINLETS LOCALIZED PY VEINLETS
101.0			BED				V	45			2	-	-		0.5								100	35298	1.5	



Dist	Rock Description						Structure				Alteration Parameters (%)													RQ	Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt							
102.5	M	VFG	BED	BR	-	5a,gn	B	60			2	-	-		0.1						100	35299	1.5				
104.0							V	45			2	-	-		0.1						100	35300	1.5				
105.5											1	-	-		0.1						100	35301	1.5				
107.0							B	40			1	-	-		0.1						100	35302	1.5				
108.5											2	-	-		0.5						100	35303	1.5				
110.0							V	45			2	-	-		0.5						100	35304	1.5				
111.5							B	45			2	-	-		0.5						100	35305	1.5				
113.0											1	-	-		0.5						100	35306	1.5				
114.5							B	40			3	-	-		0.5						100	35307	1.5	QTZ/PY VEIN @ 114.2-114.3			
116.0			CR								2	-	-		0.5						100	35308	1.5				
117.5							V	15			3	-	-		0.5						100	35309	1.5	QTZ/PY VEIN @ 116.95, 5 cm wide			
119.0											1	-	-		0.5						100	35310	1.5				
120.5							V	25			3	-	-		0.5						100	35311	1.5	QTZ/PY VEIN @ 119.8-119.9			
122.0											1	-	-		0.5						100	35312	1.5				
123.5							V	30			1	-	-		1						100	35313	1.5				
124.0											0.5	-	-		0.1						80		0.5	BROKEN COLE @ 124.4-124.5			
124.5						LC																	0.5				
125.0			BED			5a,gn	B	30			0.5	-	-		0.1						100	35314	0.5	SAMPLE 124.0-124.5 AND 124.5-125.0			
126.5											0.5	-	-		0.1						90	35315	1.5				

Dist	Rock Description						Structure		Alteration Parameters (%)														RQ	Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Names	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt						
128.0	M	VFG	BED BK	-	Sagn					1	-	-		0.5							100	35316	1.5			
131					GY SER	59	B	40		1	-	-		0.1							100	35317	3.0	GRAB SAMPLE MED TO DARK GR		
131.5										10	-	-		5							100	35318	0.5	QTZ + PY VEIN @ 131.2-131.5		
141.0							B	45		1	-	-		0.5							100	35319	9.5	MED TO DARK GREY ARGILLITE GRAB SAMPLE		
142.5							V	40		15	-	-		1							80	35320	1.5	QTZ + PY VEINS @ 141.7 TO 141.8, @ 142.2 - 142.3		
144.6							B	40		1	-	-		0.5							100	35321	2.1			
146.3			COT							10	-	-		1							95	35322	1.8	QTZ + PY VEINS @ 144.8-144.9 @ 145.8-146.1 (FLOODING)		
156.4			BEN				B	50		2	-	0.5		0.5							95	35323	10.1	GRAB SAMPLE		
156.8							V	50		20	-	3		2							100	35324	0.4	QTZ / ANK / PY VEIN @ 156.55 TO 156.66.		
169.7							V	30		2	-	-		0.1							80	35325	12.5	MED TO DARK GRAY, NARROW QTZ VEINS LOCALIZED, HIGHLY BROKEN @ 162.5-163.0. GRAB SAMPLE		
171.5	M	VFG	FOL BK	-	Sagn					2	-	-		0.5							100	35326	1.8	FROM 169.7 TO 189.2 DARK GREY TO BLACK ARGILLITE LOCALLY GRAPHITIC NUMEROUS QTZ + ANK IFY VEINLETS AND LOCALIZED VEINS LOCALIZED CUBIC PY GR VEINLETS		
173.0										5	-	-		1							100	35327	1.5			
174.5							B	45		3	-	-		0.5							100	35328	1.5			
176.0							V	40		15	-	2		2							100	35329	1.5	QTZ + ANK + PY + CHL VEINS @ 174.65 TO 174.85, @ 175.2-175.4		
177.5							B	40		2	-	-		1							100	36330	1.5			

Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments	
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt						
179.0	M	JEG	FOL	OK	-	5a,gn					1	-	-		0.5							100	35331	1.5		
180.5											10	-	2		1							100	35332	1.5	QTZ + ANK + PY VEINS @ 180.05 TO 180.25	
187.7							N	25			1	-	-		0.1							100	35333	7.2	GRAB SAMPLE	
189.2							N	20			20	-	2		1							100	35334	1.5	QTZ + ANK + PY VEINS @ 188.9-189.2	
																										CHLORITIC IRON FORMATION (189.2 TO 294.5) - CHLORITIZED ARGILLITE/SILTSTONE (73%) WITH MAGNETITE ADS (15%) AND TUFF BEDS (10%) - LOCALIZED STOCKWORK OF TUFF VEINLETS AND PY. - NARROW QTZ + ANK + PY VEINS PRESENT
191.0	M	UFG	BSD	GG	CHL	FCHE	B	35			3	-	-		0.5						2	100	35335	1.5	QTZ + TUFF + PY VEINS	
192.5							B	25			2	-	-		1							30	100	35336	1.5	SAME AS 191.0
194.0											5	-	-		1							10	100	35337	1.5	SAME AS 191.0
210.2							B	40			2	-	-		0.5							10	100	35338	15.8	GRAB SAMPLE
211.5											5	-	0.5		0.5							1	100	35339	1.3	QTZ + ANK VEINLETS PRESENT
213.0											10	-	0.5		0.5							1	100	35340	1.5	SAME AS 211.5
214.5							B	40			10	-	1		0.5							1	100	35341	1.5	SAME AS 211.5
227.0							B	45			3	-	-		0.5							5	95	35342	12.5	GRAB SAMPLE

Dist	Rock Description						Structure		Alteration Parameters (%)														Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt	RQ				
228.5	M	JFG	BED	GG	-	IFCHL	B	30		3	-	-		1						1	100	35343	1.5	QTZ + PY VEINLETS ALONG INTERVAL	
230.0							B	35		5	-	-		2						2	100	35344	1.5	QTZ + PY VEIN @ 228.5 228.65 PY VEINLETS PRESENT ALONG INTERVAL	
233.9							B	50		2	-	-		0.5						25	100	35345	3.9	GRAB SAMPLE	
235.4										0.5	-	-		1						50	100	35346	7.5	PY VEINLETS @ 235.6-235.75	
236.4							B	15		1	-	-		12	3					50	100	35347	1.0	PY + PO VEIN @ 235.80 TO 236.05	
247.2							B	30		2	-	0.5		0.5						30	100	35348	10.8	GRAB SAMPLE	
248.8							B	15		5	-	0.5		2						30	100	35349	1.0	QTZ + PY + CHL FLOODING NOTED	
253.5							B	35		1	-	-		0.5						20	100	35350	4.7	GRAB SAMPLE	
254.1							B	10		5	-	-		2						25	100	35351	0.6	PY VEINLETS PRESENT	
260							B	20		1	-	-		0.5						30	100	35352	5.9	GRAB SAMPLE	
261.1							B	30		1	-	-		0.1						50	100	35353	1.1		
261.8										25	-	2		1						10	100	35354	0.7	QTZ + ANK VEIN @ 261.25 TO 261.45	
263.0							B	40		1	-	-		0.5						20	100	35355	1.2		
264.5										0.5	-	-		0.1						1	100	35356	1.5		
266.0							V	30		10	-	1		1						2	100	35357	1.5	QTZ + ANK + PY FLOODING ALONG INTERVAL	
267.5							V	50		1	-	-		0.5						1	100	35358	1.5		
269.0							V	35		1	-	-		0.5						-	100	35359	1.5	TUFF BEDS @ 267.55-267.75 @ 268.05 TO 268.75 @ 268.80-268.9	

Dist	Rock Description						Structure				Alteration Parameters (%)													Comments	
	Com	Grs	Text	Co	Alt	Names	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt	RQ	Sampl#	Wth		
270.5	M	VFG	CST	GG	CHL	IFCHL					5	1	1		0.5						-	100	35360	1.5	
272.0											8	-	1		0.5						-	100	35361	1.5	
273.5							B				8	-	2		1				0.1	3	100	35362	1.5		AsPy + Py IN NARROW BEDS BEDS
275.0							B				10	-	2		1					3	100	35363	1.5		
276.5							V				5	-	3		0.5					10	100	35364	1.5		
278.0							B				5	1	1		0.5					5	100	35365	1.5		
279.5							V				5	-	1		1					-	100	35366	1.5		
281.0							V				2	-	-		0.5					5	100	35367	1.5		
282.5							V				2	-	-		0.5					-	100	35368	1.5		FROM 281.0 TO 294.5 MAINLY CHL SEDIMENTS. LOW MAGNETITE
284.0											2	-	-		0.5					-	100	35369	1.5		
285.5							B				10	-	2		1					-	100	35370	1.5		QTZ + PY ± ANK VEANETS AND FLOORING ALONG INTERVAL
287.0							B				2	-	1		0.5					2	100	35371	1.5		
288.5							B				5	-	1		1					-	100	35372	1.5		Py BEDS @ 287.20 TO 287.25
290.0			CST								2	-	-		10					-	100	35373	1.5		Py BEDS @ 289.2 TO 289.9
291.5							B				3	-	-		1					-	100	35374	1.5		90% PALE GREEN TUFF BEDS
293.0			BED				B				2	-	-		1					-	100	35375	1.5		
294.5							B				4	-	0.5		2					0.1	100	35376	1.5		

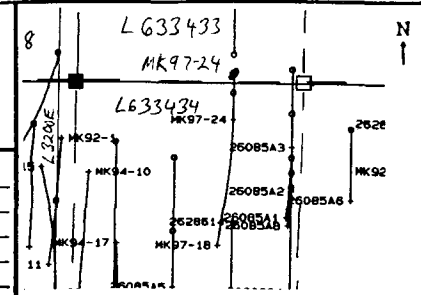


Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt					
309.5	M	VFG	BED	GY	SER	SA	B	25		20	-	2		12					8	100	35386	1.5	BACK TO SERICITIZED ARGILLITE		
311.0							B	20		40	-	3		10					5	100	35387	1.5	QTZ MAINLY @ 310.3-311.0		
312.5	M	VFG	HOM	WH	-	QV				75	-	2		10					8	100	35388	1.5	WHITE-GRAY QTZ/PY/ASPY VENE		
313.0	M	VFG	BED	GY	SER	SA	V	20		20	-	1		5					3	100	35389	1.5	QTZ/ANK/PY/ASPY VEIN @ 312.85-313.65		
315.5	M	VFG	HOM	WH	-	QV				80	-	2		5					2	100	35390	1.5	QTZ FLOODING + SERICITE		
317.0										70	-	2		3					1	100	35391	1.5	QTZ FLOODING + SERICITE		
318.5										60	-	2		1					0.1	100	35392	1.5	SAME AS 317.0		
319.7										50	-	1		0.5					-	100	35393	1.2	SAME AS 317.0		
																								ARGILLITE (319.7 TO 401.0) - MEDIUM GRAY TO BLACK - LOCALLY GRAPHITIC - TEXTURE: BEDDED TO FOLIATED - SER + ANK ± CHL ALTERATION - QTZ + ANK ± PY ± CHL VEINLETS FLOODING PRESENT - PY CURSIC IN MATRIX/VEINS TO THIN VEINLETS BETWEEN BEDS	
321.0	M	VFG	COT	GY	SER	5agnV		20		20	-	-		1					0.1	100	35394	1.3	QTZ EXES AND FLOODING. DARK GRAY (METALLIC) ARGILLITE		
322.0			FOL							1	-	-		2					0.5	100	35395	1.0	PY + ASPY IN MATRIX. HIGHLY GRAPHITIC @ 322.35-322.5		
323.5										20	-	-		1					0.1	95	35396	1.5	QTZ + ANK VEINS @ 323.05-323.45 @ 323.35-323.50		

Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments		
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt							
325.0	M	VEG	FOL	GY	SE21	5a	V	30			1	-	-		1								100	35397	1.5	NO GRAPHITE, MEDIUM GRAY	
326.5											1	-	-		1								100	35398	1.5		
328.0											1	-	-		0.5								100	35399	1.5		
329.5					SE22						3	-	-		2								100	35400	1.5	QTZ FLOODING ALONG INTERVAL	
331.0							B	30			2	-	-		1								100	35401	1.5		
332.5							B	35			3	-	0.5		1								100	35402	1.5	QTZ + ANK + PV FLOODING @ 332.0 TO 332.30.	
334.0											10	-	0.5		0.5								100	35403	1.5	QTZ + ANK FLOODING ALONG INTERVAL	
335.5							B	25			1	-	-		0.5								100	35404	1.5		
337.0											5	-	-		0.1								100	35405	1.5	SAME AS 334.0	
350.0							B	30			1	-	-		0.1								100	35406	13.0	FROM 337.0 TO	
362.0											1	-	-		0.1								100	35407	12.0	MEDIUM TO DARK GREY ARGILL. MINOR TO MODERATE SERICITIZ. ALTERATION	
374.0							B	25			1	-	-		0.1								100	35408	12.0	MINOR PV + QTZ. GRAB SAMPLE LOCALIZED GROW ACRES SECTION	
386.0							B	30	B	20	1	-	-		0.1								100	35409	12.0		
401.0											1	-	-		0.1								100	35410	15.0		
401.0						EOH																				EOH	
																											All tests are acid tests. Casing pulled, but 19m RW, 16m NW left in hole.



HOLE #: ~~2703-104~~ NORTHING: ~~19785~~ EASTING: ~~3500~~ ELVN: ~~3050~~ LENGTH: ~~139.2~~  
 TWP: Nasaworthy Drilled by: Bradley Logged by: R. Barber Start: 24/02/97  
 Claim: L633433, L633434 Core Stored: Timmins Casing/Size: 109m BW, 53m NW Finish: 25/02/97



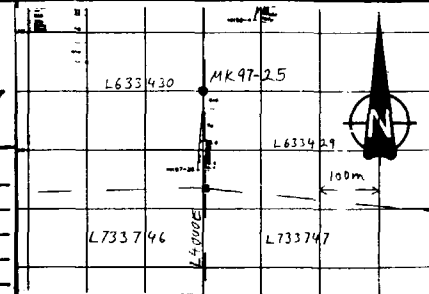
Dist	Azim	Dip	Dist	Azim	Dip	Dist	Azim	Dip	Dist	Azim	Dip
0	180	-50									
107	180	-60									
137	180	-62									

Purpose/Results: Test possible down-plunge extension of gold mineralization in 86-A8. Hole stopped due to excessive steepening 17 samples

Dist	Rock Description						Structure		Alteration Parameters (%)														Sampl#	Wth	Comments		
	Com	Grs	Text	Co	Alt	Namel	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt	RO						
0																										0-104 Casing	
107						CAS																				104-139.2 Carbonaceous Argillite	
108.6	B	VF	RUB	GY	SEK1	5a																		30	AX35920	104-107 1.1m lost core	
109.6	"	"	"	"	"	"																		70	921	107-110 0.6m "	
111.3	SS		SHD				F0	F	Y5	5														70	922		
112.3	"		"																						80	923	109.6-111.3 wk qtz stgr zone 11 Polh Fol'n 45°-0°
																											113-116 0.7m lost core
																											116-118.4 0.6m "
																											120-127.4 Highly even'd sub-11 TCA secondary Fol'n's axial plane at core'n

Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments			
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank		%	Py	Po	Cpy	Sph	Asp	Mt							
124.25	S	VF	SHD	GY	SER1	5a					1													AN35924		(ve. v. n. c. coverage) @ 85-90°		
125.25					SCL1																		70	925		TCA		
126.1					CHL						5				5								30	926		- 5% by diss py in slightly graphitic		
127.6					SCL						7												70	927				
128						LC																	0					
128.4	M	VF	SHD	WH	SER	B.V	V40				60				.5								100	928		shear/bx qz 128.1-128.35, 2% serc inclusions.		
129.5			BED	GY	T	5a	B.50				1													929				
131			"																						930			
132			"																							931	Z-evening	
132.9			SHD		SCL1						30				.5	.5									932		- SH'd & slightly contacted qtz-stgr zone	
133.7			BED				B.45																			933	min diss py, po	
134.2			SHD		SER1						20				.1	.1										934	- wk shear remaining	
135.2			BED																							935		
140			"								.5				.5									70	936		137-139.2 Fault Zone? Gravelly & rubbly core	
																												140.0 EOH
																												Hole stopped due to steepening of hole, probably in 1/6. All BW casing pulled. NW casing broke in 1/6, 16 m left in hole. Drill moved ahead 30m to MK 97-18 to test same target. All tests are acid tests.

HOLE #: ~~9725~~ NORTHING: 3300 S EASTING: 4000 E ELVN: 3050 LENGTH: 201.0  
 TWP: NOSE WORTHY Drilled by: BRADLEY Logged by: ERIC GENEAU Start: 24 FEB 97  
 Claim: L 633430 Core Stored: TIMMINS Casing/Size: 45m BW, NW Finish: 26 FEB 97



Dist	Azim	Dip	Dist	Azim	Dip	Dist	Azim	Dip	Dist	Azim	Dip
0	180	-50									
90	186	-48.5									
120	-	-50									
180	184	-44.5									

Purpose/Results: Test IP anomaly to southeast of A8 area.  
68 samples Mainly qtz-eye gwk w. conglomerate & adq. interbeds

Dist	Rock Description						Structure				Alteration Parameters (*)										Comments				
	Com	Grs	Text	Co	Alt	Na mel	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt		RQ	Sampl #	Wth	
45.0						CAS																			QUARTZ-EYES GREYWACKE (45.0 TO 201.0 (EOH)) LIGHT TO MEDIUM GREY COLOR MAINLY GREYWACKE LOCALLY INTER-BEDDED WITH SILTSTONE. MODERATE TO INTENSE SERICITIC ALTERATION, ALSO WITH ANK + CHL ALTERATION. SMALL QTZ EYES NOTED. SMALL BEDS OF ARGILLITE PRESENT. BEDDING AND FOLIATION GENERALLY @ 20-40° ECH. CRENULATION AND OTHER STRUCTURAL FEATURES NOT WELL DEVELOPED. NOTED IF SIGNIFICANT. FEW QTZ VEINLET, VEINS. FEW PY, AND WHEN PRESENT FOLLOW FOLIATION INTERSECTION.
50.0	B	FG	FOL	GY	S&B	5g	B	20		1	-	-		0.1							20	35411	5.0	HIGHLY BROKEN. NO QTZ VEIN, PY GRAB SAMPLE	
51.5										3	-	-		0.5							50	35412	1.5	QTZ+ANK+PY @ 50.95 TR 51.1	

Veins at 131.9-132.3, 150.0-150.9  
 Zone at 165.8-175 may explain IP anomaly

Dist	Rock Description						Structure				Alteration Parameters (%)										RQ	Sampl#	Wth	Comments	
	Com	Grs	Text	Co	Alt	Names	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt					
52.2	M	FG	CGT	GY	SER2	Sg					10	-	1									80	35413	1.5	QTZ + ANK + PY FLOODING @ 51.8 TO 52.0.
53.7			FOL				R	30			0.5	-	-		0.1							100	35414	1.5	
61.0							B	30			0.5	-	-		0.1							100	35415	7.3	GRAB SAMPLE
62.5					SER3		B	40			5	-	1		0.5							90	35416	1.5	BROKEN QTZ/ANK VEIN @ 61.55 - 61.60
64.0							B	50			3	-	0.5		0.1							90	35417	1.5	QTZ/ANK VEINLETS @ 63.20, 20° LCA, @ 63.85, 15° LCA.
66.0											10	-	2		0.5							40	35418	1.6	QTZ/ANK VEIN @ 64.95 TO 65.15. LOST CORE @ 65.40 TO 65.80.
67.5							B	10			2	-	0.5		0.1							100	35419	1.5	QTZ/ANK VEINLET @ 66.60.
78.0							B	20			0.5	-	-		0.1							100	35420	10.5	GRAB SAMPLE
87.5							B	35			0.5	-	-		0.1							95	35421	9.5	GRAB SAMPLE
89.0							B	20			0.5	-	-		0.1							100	35422	1.5	MORE ARGILLITE + PY BEDS
102.0							B	30			0.1	-	-		0.1							95	35423	13.0	ARGILLITE BEDS @ 97.5-97.9 GRAB SAMPLE
103.5							B	35			1	-	-		0.5							100	35424	1.5	QTZ + PY VEINLETS ALONG INTERVAL
114.0							B	20			0.1	-	-		0.1							95	35425	10.5	GRAB SAMPLE
118.7							V	15			0.1	-	-		0.1							100	35426	4.7	GRAB SAMPLE
120.2							B	20			1	-	0.5		0.1							100	35427	1.5	
120.8							V	20			10	-	1		0.1							90	35428	0.6	QTZ + ANK + PY VEIN @ 120.40 TO 120.47.

Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	GA					
122.1	M	NFG	FOL	GY	SER	Sg					0.5	-	-		0.1						100	35429	1.3		
127.4							B	30			0.5	-	-		0.1						95	35430	5.3	GRAB SAMPLE	
128.9						Sg, a	B	15			0.5	-	-		0.5						100	35431	1.5	FROM 127.4 TO 131.9	
129.9						Sg, c					0.5	-	-		0.1						100	35432	1.0	ARGILLITE/SILTSTONE BEDS. CLASTS	
130.8						Sg, c					0.5	-	-		0.1						100	35433	0.9	NOTED @ 129.0 TO 130.2 THEY ARE FLOWGATED AND MAINLY ARGILLIC	
131.4	B					Sg, a					8	-	2		1						60	35434	0.6	QTZ TANK + PY VEINS @ 130.9 TO 131.0. BROKEN COKE.	
131.9	M										0.5	-	-		0.1						100	35435	0.5		
132.3	B	NFG	HOM	WH	SER	QV					50	-	5		3						30	35436	0.4	QTZ TANK + PY VEIN. BROKEN WHITE TO GREYISH WHITE	
133.5	M		FOL			Sg					0.1	-	-		0.1						100	35437	1.2		
135.0							B	10			0.1	-	-		0.1						100	35438	1.5		
136.3							B	10			0.1	-	-		0.1						100	35439	1.3		
136.6	B										30	-	2		3						40	35440	0.3	BROKEN QTZ + ANK + PY VEINLET	
138.0	M			GG	SCL		V	30			0.5	-	-		0.1						100	35441	1.4	GREY-GREEN, SER-CHL ALTERATION	
149.0							B	25			0.5	-	-		0.1						100	35442	11.0	GRAB SAMPLE	
150.0							V	30			0.5	-	-		0.1						100	35443	1.0		
150.4											10	-	1		1			0.1	0.1		100	35444	0.4	QTZ + ANK + PY + SPA + GA VEINLETS PRESENT	
150.9	M	NFG	HOM	WH	SER	QV	V	25			60	-	3		1			0.3	0.1		100	35445	0.5	QTZ + ANK + PY + SPH + FA VEIN	
152.0				GY		Sg					0.5	-	-		0.1						100	35446	1.1		

Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl #	Wth	Comments
	Com	Grs	Text	Co	Alt	Na:el	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt					
153.0	M	VFG	BEDGY	SER	Sg		B	40			0.5	-	-		0.1						100	35447	1.0		
154.5							B	45			0.5	-	-		0.1						100	35448	1.5	FROM 153.0 TO 162.0 LOCALIZED	
156.0							B	50			2	-	-		0.5						100	35449	1.5	FLOWGATED VOLCANIC CLASTS FOUND IN MATRIX	
157.5											0.5	-	-		0.1						100	35450	1.5		
159.0							B	35			0.5	-	-		0.1						100	35451	1.5		
160.5											1	-	-		0.1						100	35452	1.5	LIGHT TO MEDIUM GREY	
162.0							B	25			0.5	-	-		0.1						100	35453	1.5	"	
163.5											0.5	-	-		0.1						100	35454	1.5	"	
165.0											0.5	-	-		0.5						100	35455	1.5	"	
165.8											0.5	-	-		0.5						100	35456	0.8	"	
166.7	B	VFG	COT	WH	-	QV					55	-	5		3			0.5	0.1		30	35457	0.9	QTZ + ANK + PY + SPH + ASPY (TRACE) VEIN CONTACTED BLOCKY/BLOCK WHITE TO GREYISH WHITE.	
167.85	M	VFG	BEDGY	SER	Sg		B	20			2	-	-		0.5						100	35458	1.15	FROM 166.7 TO 201.0 COLOR DARK GREY.	
168.3	B	VFG	COT	WH	-	QV					50	-	5		2			0.1			100	35459	0.45	QTZ + ANK + PY + ASPY (TRACE) VEIN BROKEN/BLOCKY	
169.3	M	VFG	BEDGY	SER	Sg						0.5	-	-		0.1						100	35460	1.0		
170.1							B	10			0.5	-	-		1						100	35461	0.8		
170.6	M	VFG	COT	WH	-	QV					45	-	5		2			0.1			100	35462	0.5	QTZ + ANK + PY + ASPY (TR) VEINS	
172.0	M	VFG	BEDGY	SER	Sg						0.5	-	-		0.1						100	35463	1.4		









Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments			
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt								
65.9	M	FC	FRAG	GY	SCL2	4dt					10	5											100	AX37598		Irreg QA stgr zone		
67.7																									599			
68							V	40			30														600			
69.5					66																				601			
71					GY	SER3																			602		71-74.2 Highly bleached, serc'd	
72.4																									603		Fragmental Qtz-ank vein & stgr	
73.5										10															604			
73.8						QV				50	5														605			
74.2			SHD			4dt																			606			
75.5			FRAG		SCL2																				607			
77					CHL2					1	2														608			
78					SCL2					1	3														609			
79					SER3					5															610		Highly bleached, serc'd, fydcs py/py	
80.05	M	ML	DRX	YL	SHL3	MIN				15				80											611			
80.9	S	FM	SHD	GY	CHL3		V	50		10				5	5										612		79-84.9 Mineralized Zone	
81.85	M		FRAG		SER2									30	1										613			
83.3														15	5											614		10% to loc'y semi-massive
84.9					SCL2					.5				10	2										615		py/po stgrs in 1 fgy, serc'd	
86.1		F			SER2	4dt								3											616		Tuff/Lapilli-tuff. Also some	
86.9										5				5											617		fine sulfides esp po. Hairline to	
88.4														1	1										618		msv black chl stgrs near top of	
89.4					SCL2									3											619		unit & at 78-79, chl stgrs	
90.2										1				5											620		11 fcl'n. Min Qtz stgrs w. loc sph.	
91.45										2				5											621		79-80.05 Nearly msv py. F-mg calcite	
91.9										4				7											622		py forms matrix to rounded	
93.2														5									60	623		clasts of vein Qtz giving overall		
																												appearance of breccia. In
																												many clasts py seems to form
																												embayments in Qtz.
																												84.9-101.95 Fcl'n Tuff/Lapilli-
																												Tuff
																												Much as 40.1-79, but w. loc
																												msv units w. white carb speckling
																												loc sects of stgr py/po as 79-84.9



Rock Description							Structure				Alteration Parameters (%)														RQ	Sampl#	Wth	Comments
Dist	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank		%	Py	Po	Cpy	Sph	Asp	Mt							
110.3	S	F	SHD	GY	SER2	4dt										10								80	AX37639	710-130.95	F/ser Tuff/Lapilli-	
111.5	M		SHD		"						.5					5	1							100	640		Tuff	
113			FRAG		SER2											15	1								641			
114			MSV													.5	1								642		Much as unit from 40.1-79	
118.2			"				F	SS			.1	.1				.5									643		though initially fg, fairly massive,	
119.2			FRAG													.5									644		with little obvious bedding or	
120.2			SHD		SER3		N	HS			35		2			6	.1		.1						645		lapilli frags. Tr-min dur py, po	
121.2		FC	FRAG		SER2	4dt										1									646		throughout.	
126.4											1	1				.5	.1								647			
127.4																.5										648		
128.4	S	FM		TN	SER2	4dt										.5							80	649				
129.5																.1									650		119.2-120.2 atz-ank-tour vein	
130.95											1					.1									651		w. py'd wallrock. Strangely cherted	
132	M	FM		GN	CHL3	3lt					.5	.1				.5	.1						100	652		zoned w. abundant bluish		
139											.5	.5				.1									653		gy sercs. 5% coarse bk four	
140											2					.5									654		knobs in vein. Tr sph, po in	
																												vein. Most py is in wallrock,
																												but also in fracts in vein & vein
																												contacts. "spongy" py.
																												120.2-127.4 Definite change
																												in unit to more chertier, darker
																												lapilli-tuff
																												127.4-130.95 Buff serical unit
																												Tr-min py along B/L in
																												130.95-169.45 Intermediate Tuff
																												Same fragmental textures as
																												prev units, but strongly cherted.
																												Very little sercs. Min 2% gtr-
																												cal stgrs. loc veins.
																												114-115.6 split by mistake AX3750

Dist	Rock Description						Structure				Alteration Parameters (%)											Wth	Comments		
	Com	Grs	Text	Co	Alt	Na mel	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt	RQ			Sampl#	
140.3	M	EM	BRX	WH	CHL	QV	V	40			50				1							100	AX37855	Wh gr w. 5% wallrock inclusions	
141.3			FRAG	GN		3/4					1			1									656		
142.25			"	"							1			1									657		
142.7			BRX	WH		QV					60			1	5								658	Qtz-cal vein brx v. 2% black	
143.7			FRAG	GY	SER									5	2								659	four	
147.8				GN	CHL									2	5								660	serried & min'd zones, fg d. py, po	
146.2														5									661		
147											4	1		5									662		
147.7							V	45			15			5									663	wt qtz-cal vlet zone	
148.7											1			5									664		
168.4											1			5	1								665	167.2-167.6 Gauge/Fault Zone	
169.45											1	2		5									666	3 gauge seams up to 7cm long @ 45-50 TCA	
																									158.7-161.6 wk-mod serried strong sh'd zone
																									169.45-187.35 Folioe Lapilli-Tuff
171	M	FC	FRAG	GY	SER2	4d1t								5									667		
172.5														4										668	Fault gy mod serried w. wh ant
174														5	5									669	sparkling throughout. Black
175														1	5									670	chl // foln. Mod. strongly fold
176														1	1									671	loc. qtz vlets & stars w. "spongy"
176.8					SER2									1	3									672	py, tr - 5% f. d. d. sty, py, po Fragments stretched up to 10:1 py content generally increasing down hole. loc. 25-5mm qtz grains
177.6			BRX	WH	SCL3	QV	V				75	10		4	1	-1	-1	5						673	QAV w. 10% wallrock inclusions, wh- gy qtz & ank. Py as fine - v. coarse
178.4			FRAG	GY	SER2	4d1t					7	1		5	1									674	stgs & knots. 1% m-cg po in fronds
179.9											1			3	3									675	f. near inclusions. Tr cap. sph. 1-2mm
181.2											5			2	3									676	thick stgr of ap-po near 1/2 of vein
181.5														10	1									677	
182.3														5	1									678	
183.5															5									679	- highly fragmental texture

Dist	Rock Description						Structure				Alteration Parameters (%)											Sampl#	Wth	Comments			
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank		%	Py	Po	Cpy	Sph	Asp	Mt				RQ		
184.2	M	F	SHD	GY	SCL3	4dlt	V	40	V	45	10		2		5	1								AX37680		2 QAV's 11 fol'n + cutting fol'n 5% tan-1t bn min'l in vein @ 183-5-183.6 -> scheelite ? spongy py in veins, 1% disc py + po in wallrock.	
185.6	"	"	"	"	"	4dlt	F	50			.5	-5			1	3								681		187.35-189.6 Mineralized Zone	
186.35					CHL	"					3				1	2								682			
187.35					"	"									2									683		Semi-massive to massive spongy py and po. Locally forms net work pattern w/ wallrock inclusions within py. Min qtz stars within wallrock. Late sulphides is usually as "bcx frags" with embayed margins where in contact w/ sulphides.	
																											187.6 RV frag w. 30% same bn min'l as noted in vein @ 183.5-183.6
188.6	M	FM	SHD	YL	CHL	MIN					1				70	10								684		Note: Foliation angle changes grad in sample processing zone -> possibly a fold nose?	
188.9			SHD	GY			F	75			2				5	2								685			
189.6			BRX	YL							15				75										686		
190	S	F	FRAG	TN	SERS	4dlt	F	90							1	.5									687		
190.3	B	"	RUB	"	"	"					20				2	.5						0		688		189.6-197.2 False Lapilli-Tuff/Tuff	
190.7	-	-	-	-	-	LC																0					
191.6	S	F	FRAG	TN	SERS	4dlt					.5				2							70		689		Much as 169.45-187.35, but larger lapilli component.	
																											191.03 2.5cm band of gy chert Min for disc py, possibly laminated. Fract zone immediately follows.
191.9	SS	"	"	GY	SCL3	4dlt	V	45			1				12									690		2-5cm vein msc py @ 191.7	
193.3	S	"	"	"	SERS	"					5				5									691			
194.4	"	"	"	"	"	"					7				5	3									692		

Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl #	Wth	Comments		
	Com	Grs	Text	Co	Alt	Names	B	A1	F	A2	Qtz	Cal	Ank		%	Py	Po	Cpy	Sph	Asp	Mt						
196	S	F	FRAG	GY	SER	4dt									1	.5							80	AX37693			
196.6			"				V	45		20		5			9	.1							70	694		at-rock-px vein stub	
197.2			SHD												3								60	695			
198.4			BED		SCL	5 as									2								100	696		197.2-206.15 Carbonaceous	
199.4			"		CHL	"									5								100	697		Argillite/Siltstone	
																											Alternating lt gy & bk beds // fol'n low graphite gouge or slips. Silty bands appear to occur and at 209.2-209.6 isolated lapilli frags occur. Strongly fol'd. Highly crystallized. Wisp. qtz= cal frags // fol'n. 2-5% disc px
200.8					CHL	5 as	F	55		.5	.5				2								70	698			
201.8										.5	.5				2								60	699		- low graph gouge @ 199.5	
202.8										.5	.5				2								70	700			
203.25			SHD			QV	V	37		50		2			5								70	701		QV - px in vein. Drag fold near	
204.5	M		BED			5 as				1	1												100	702		1/2 has axial planar cleavage @ 35° TCA	
205.85			"							1	1													703			
206.15		FC	BRX			2AV	V	30	F	45	40		10		10	8								704		Wh - lt gy qtz at contact. 5% rounded clasts of lg px (nodular px?) within brx formed by network of qtz, 2 mg cubic px & p.p. 206.15 - 219 Foliated Tuff/ Lapilli-tuff. Much as 169.45-187.35. Highly sulfidized with disc frags px, p.p. throughout. Also seems to be between lapilli frags. Sericite + strongly ant'd throughout.	
206.6	M	FC	FRAG	"	SER	4dt									5	10							700	705		- rounded px frags as in vein @ 206.15	
207.3			"			4dt									2	5									706		- large lapilli frags
207.8			"			4dt									50	2									707		

Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments		
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank		%	Py	Po	Cpy	Sph	Asp	Mt						
204.8	M	F	FRAG	GY	SCL3	4dt					1	1			.5	.5								AX37708			
209.7					SER3	4dt									1	.5								709			
210.2															3	10								710		stgr py 1% nodular py	
210.8									F 55	F 35					1	10								711		axes of ccrn'n @ 35° TCA	
211.75			MSV			4dt					2	1			.5	1								712			
212-8		FM	FRAG		SCL3				F 50						30	2								713		211.75-213.6 Highly Pyritic Zone	
213-6		"	"		"				J 50						30	2								714		F-mg cubic clustered stgr - like py	
214.9		F	"		SER3	4dt									1	.5								715		- 1% py gtz in matrix unit	
216.5		"	SHD			4dt									1	3								716		becoming highly sheared.	
218						4dt									1	15								717			
219						4dt			F 70		1	1			.5	2								718		More'n's, axial plane 35-40° TCA	
220.5		FM		GG	SCL3	5g									.5	1								719		ccrn'n's east plunging?	
242	S	"			SCL3	5g					.5	2			.5	.5								720			
242.9	M	F	SHD		"	"			C 55						.1									721		219-243.3 Chloritic Sediments	
243-3		VF	"	GY	SIL	CTZ			C 45		2				.1									722			
																											Fig. mod-dk gg strongly ch'd diagnostic vs mg calcite knots 11 ft ch. strongly ch'd. has gtz - cal stgrs for lots. Fairly homogeneous unbedded greywacke/ tuffaceous sediments. Could also be matrix volcanics.
																											237.4-237.9 Fault Zone Very jumbled brx w. some go agn. Wkly sericid. Intruded by cal stgrs.
																											242.9-243.3 Contact Zone: vtz - Fg highly siliceous zone. Tr m- cg py. wkly fold.



Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments		
	Com	GrS	Text	Co	Alt	Name1	B	A1	F	A2	qtz	Cal	Ank		%	Py	Po	Cpy	Sph	Asp	Mt						
244.3	M	FM	QFP	GY	SER3	4d, gp																			A137123	243.3-251.45	Qtz-Phyric Dacite
250.5					SER2																				724		
251.45					SCL1																				725		Fg, med hard, lt-med gy, seric'd matrix. 5-10% .5-2 mm diam euhedral glassy qtz phenos. Wh'y fol'ds tr. Fg py along fol'n. May be a dyke, but contacts are 11 f. thin. Darker & less seric'd down hole.
252.5	M	FM	SHD	GG	CCL	5g, g	V	60	F	45	15														726	251.45-258.35	Chloritic Sediments
254																									727		
255																									728		As 219-243.3 5-10% qtz eyes
256.1																									729		Loc qtz - ka tour stylst & lts.
256.5	"	"	MSV	WH	-	QV																			730		Wh-11 gy qtz w. 7% ka tour
257.3					GY	CCL																			731		following fract. in qtz. Min fg det.
258.35					"	"																			732		py in tour.
259.3			SHD	"	SER3	4d, gp	F	50																	733		
260			"	"	"	"																			734		
261					"	"																			735		258.35-262.5 Qtz-Phyric Dacite
262.5					SCL3		V	20			2	5													736		
263.5					"	"					.5	1													737		As 243.3-251.45 but loc'y w.
279.3					"	"					.5	.5													738		up to 10% .25-1mg fsp phenos.
280.3					"	"					.5														739		Loc'y seric - chl alt'd.
																											262.5-280.3 Mixed Dacite-Tuffs
																											As prox. two units but intimately mixed. Strongly seric'd/chl'd. Qtz - cal styls throughout. Loc'y appears seric - chl laminated.
																											Note Section from 219-280.3 may all be different parts of same unit, although sharp contacts are seen.



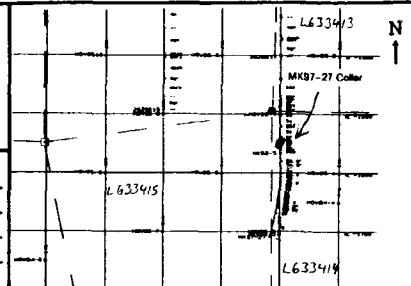
Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments				
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank		%	Py	Po	Cpy	Sph	Asp	Mt								
296.8	M	F	SHD	GY	SCL3	50, g									-5										AX43293		292.75-303.35 Siltstone/Argillite		
297.8															-5										294				
299										10	5				2	-5									295		Eq, lt. mod gy, mod - strongly		
300.5			BED				B	55							-5										296		sericite & variably ch'd 1-3%		
302			"							-5					-5										297		.25-2mm Qtz eyes diss throughout		
303.35			BED												-5										298		loc'y well bedded but mainly has only argillite streaks within lt gy siltstone. Min cal streaks 11. Roll in + crossing fol in at 45° TCA.		
																											303.35-375.35 Argillite/Siltstone		
																											VFg - Eq laminated, dk gy Min - 1% disc py, Min - 1% cal streaks. Vwky - wky calcitic		
304.55	M	F	SHD	GP	CHL2	5a				1	1			-5	5										299		309.7-317.2 Variably faulted		
305.7	"	VF	LAM			5a				2	5			-5											300		section, loc'y very broken		
311	S													-5										90	301				
311.9														-5											90	302			
312.4										30				-5											90	303		Qtz v/let 312.2-312.4, w. stges.	
312.4	SS													-5											50	304			
321.8	SS	F	SHD											-5											50	305		311-314 0-3m lost core.	
322.35	S	VF	LAM											-5											100	306			
323.75										15	5			-5												307			
324.75										8				-5												308			
326	M									1	-5			-5												309			
327	"		SHD							2	3			2												60	310		
327.7	B		BRX							20				1												20	311		Qtz - dol brz zone 20% dol
328.2	-	-	-	-	-	LC																			0			327.5-327.7 Chloritic gouge.	
329	S	VF	LAM	GY		5a	B	50						-5											50	312			
330														-5												100	313		
331														-5												100	314		
332										5				1												"	315		

Dist	Rock Description						Structure				Alteration Parameters (%)										RQ	Sampl#	Wth	Comments		
	Com	Grs	Text	Co	Alt	Namel	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt						
333.6	M	F	LAM	6P	-	5a	F	50		1	-5			-5	.1									AX43316	333.6-335.3 Qtz-cal vein/stgr	
334.2			SHD			"				7	8			1	1									317	Zone. Veins + stgrs 1/16" in	
335.3			BRX			QCV	V	50		60	5			1	2									318	Larger veins have abundant	
335.8			SHD			5a	F	35		10	1			1	-5									319	wallrock inclusions. 1/2 raggy	
336.6											-5			1										320	py. 2% m-cg py. tr - minor red-	
337.5										1	1			1										321	brown sph. Sulphides mainly	
338.6			MSV								.1			.5										322	at vein edges + edges of inclusions	
338.9			"				V	50		20	5			.5	1									323		
340.3			SHD							1	-5			.5	.5									324	337.5-339.1 silt/gwk bed, msut	
341.25			LAM											1	.1									325	wkly fol'd.	
342.35			SHD				V	40		20	5			1	2									326	-QCV stgr zone diss + fol'd 1/16" py, ps	
343.7			LAM																					327	in wallrock.	
344			BRX			QCV	V	35		30	30			1	-5									328	-QCV brx vein	
345			SHD			5a				1	1			1	-5									329		
368							B	45		1	-5			-5	.1									330	grab sample.	
368.9										2	2			-5										331		
370.4							F	50		5	1			-5										332		
371										30	10			1	-5									333	Qtz-cal shear brx zone.	
372.5										10	20			1										334		
374										10	20			1										335	371-375.35 Highly sheared argillite	
375.35										5	5			1										336	with Qtz-cal ribbons + boudinaged stgrs.	
																										375.35-387.4 Sericitized Argillite
																										Highly sheared to contorted, lt gy. Intensely seric. Minor Qtz-dk threads + stgrs 1/16" in. Larger veins noted. wk - mod chl loc. It appears to be a sharp alteration contact of mod seric + dk gy arg. Seric increases away from contact.
																										376.03-376.52 Strongly chl'd, med-dk gg zone 15% ps stgrs 1/16" py.





HOLE #:                      NORTHING: 1550.5 EASTING: 50 ELVN: 3050 LENGTH: 87  
 TWP: NOSEBORTHY Drilled by: BRADLEY Logged by: ERIC GENEAU Start: 26 FEB 97  
 Claim: L633414 Core Stored: TIMMINS Casing/Size: 52m. BV, NW Finish: 28 Feb 97



Dist	Azim	Dip	Dist	Azim	Dip	Dist	Azim	Dip	Dist	Azim	Dip
0	180	-55	277	196.6	-55.5						
60	178	-54									
120	185	-54									
180	188	-54									

Purpose/Results: TEST STRATIGRA.  
PHI SOUTH OF MK 92-5  
 NOTE, SAMPLES FROM 35479 TO 35500  
 AND FROM 37001 TO 120 151 samples.

Dist	Rock Description						Structure				Alteration Parameters (*)										RQ	Sampl#	Wth	Comments					
	Com	Grs	Text	Co	Alt	Names	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt									
51.80						CAS																							CAS
52.25	B	VFG	HOM	WH	-	QV				95	-	-		2	0.1								0	35479	0.45			Blocky/BROKEN WHITE QTZ + PY VEIN WITH GRAPHITE INCLUSION IN CRACKS	
																													ARGILLITE (52.25 TO 114.8) DARK GRAY TO BLACK LOCALLY GRAPHITIC AND CARBONACEOUS, BROKEN/BLOCKY TO MASSIVE, HIGHLY FOLDED, CONTUR- TED TEXTURE, QTZ + ANK I, PY VEINLETS PRESENT (1 TO 10%), PY PRESENT AS FOLDED, FINE GRAINED, CHL FOUND ON SURF REARS MIX OF ARG/GWK @ 107.7 TO 114.8
53.50	B	NFG	COT	AK	GRP	5a, 9f				10	-	0.5		3									30	35480	1.25				
55.0						LC																							LC
67.0	B	NFC	COT	AK	GRP	5a, 9f				7	-	0.5		3									50	35481	7.0			GRAA SAMPLE, LOST CORE C 63.7 TO 64.0, C 66.7 TO 67.0	
69.1										1	-	-		2									20	35482	0.8			LOST CORE @ 67.3 TO 68.0	

Rock Description							Structure				Alteration Parameters (%)														
Dist	Com	Grs	Text	Co	Alt	Na <sub>1</sub>	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt	RQ	Sampl#	Wth	Comments	
70.5	B	NFG	COT	BK	GRD	Sa, gn					35	-	2		3							50	35483	1.1	QTZ+ANK+PY VEINLETS COMMON TO
72.0	M										20	-	2		2							75	35484	1.5	"
73.5											10	-	1		1							90	35485	1.5	"
74.5			BRXGY		ANK2	Sa					50	-	3		3							80	35486	1.0	QTZ+ANK+PY BLECCIA.
75.2											40	-	2		1							80	35487	0.7	QTZ+ANK+PY BLECCIA. GREYWACKE BED ALSO INTERSECTED 74.75 TO 74.95.
76.35			STWK		CHK						20	-	2		2							100	35488	1.15	DARK GREY QTZ+ANK+PY STRIMMERS PY ALSO IN MATRIX
76.9			BRX		ANK2						40	-	3		1							100	35489	0.55	QTZ+ANK+PY BLECCIA
78.0			STWK BK		CHK				V10		15	-	2		1							100	35490	1.1	QTZ+ANK+PY STWK BLACK CO. MORE CARBONACEOUS
79.1											15	-	2		1							100	35491	1.1	SAME AS 78.0
80.4			BRXGY		ANK2						40	-	2		1							100	35492	1.3	QTZ+ANK+PY BRX. DARK GREY LOCALLY STWK
81.5			COT								0.5	-	-		2							100	35493	1.1	MEDIUM TO DARK GRAY ARG.
82.6											0.5	-	-		0.5							100	35494	1.1	SAME AS 81.5
84.0			BRX BK		CHK						25	-	3		2							95	35495	1.4	BLACK. QTZ+ANK+PY BRX
85.0			STWK BK		CHK						10	-	2		2							100	35496	1.0	QTZ+ANK+PY STWK
85.9											10	-	2		1							100	35497	0.9	SAME AS 85.0
86.3											30	-	3		1							100	35498	0.4	QTZ+ANK+PY STWK (DENSE)
87.8											10	-	2		2							100	35499	1.5	QTZ+ANK+PY STWK



Rock Description							Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments			
Dist	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt								
89.0	M	UFG	STWK	BR	CAN	5a					5	-	0.5		1							100	35500	1.2				QTZ+ANK+PY STWK
90.3			BED	GY	ANK	5a, g	B	50			3	-	-		0.5							100	37001	1.3				QTZ EYES GWT ILUTERBEDDED LIGHT TO MEDIUM GRAY.
91.5			STWK	BR	CAN	5a					3	-	-		0.5							100	37002	1.2				MINOR QTZ+PY STWK
92.5											3	-	-		0.5							100	37003	1.0				SAME AS 91.5
93.7			BRX	GY	ANK						40	-	3		1							100	37004	1.2				QTZ+ANK+PY BRX, LOCALLY COARSER GRAINS (GRENACHE) HEMATITE SPECS NOTED
94.3			STWK	GY							20	-	2		0.5							90	37005	0.6				QTZ+ANK+PY STWK
94.9			BRX								15	-	1		1							70	37006	0.6				BRX WITH QTZ CLASTS AND CARBONACEOUS MATRIX
96.4			STWK								10	-	1		0.5							95	37007	1.5				QTZ+ANK+PY STWK, LOCALLY BRECCIATED
97.6			COT								5	-	-		0.5							100	37008	1.2				
98.2			HOM			5g					1	-	-		0.5							100	37009	0.6				QTZ EYES GRENACHE BED
99.7			COT			5a					10	-	1		1							100	37010	1.5				SAME AS 96.4
100.7			STWK				U	35			5	-	0.5		0.5							100	37011	1.0				DARK GRAY CARBONACEOUS WITH QTZ+PY STWK
101.9											5	-	0.5		0.5							100	37012	1.2				SAME AS 100.7
102.3			BRX								2	-	-		1							100	37013	0.4				BRX WITH QTZ CLASTS AND CARBONACEOUS MATRIX
103.0			STWK				V	30			5	-	0.5		0.5							100	37014	0.7				DARK GRAY, CARB. WITH QTZ+ PY STWK
103.8			BRX								2	-	-		1							100	37015	0.8				SAME AS 100.3

		Rock Description					Structure				Alteration Parameters (%)															
Dist	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank		%	Py	Po	Cpy	Sph	Asp	Mt	RQ	Sampl#	Wth	Comments	
104.4	M	VEG	STWK	GY	CAR	Su					2	-	3			1						100	37016	1.1	DARK GRAY TO BLACK, CARB ARK. VEINLETS OF QTZ + PY. VEINLETS OF ANK NOTED	
106.0			BRX								5	-	2			1						100	37017	1.1	BRX WITH ARG CLASTS AND CARBONACEOUS MATRIX	
106.8											8	-	2			3						100	37018	0.8	BRX WITH ARG CLASTS AND CARB MATRIX. MORE PY, BEDS OR IN MATRIX	
107.2											20	-	2			2						100	37019	0.4	BRX WITH MORE QTZ FLOODING	
107.7					ANK1	Sg					10	-	1			1						100	37020	0.5	BRX WITH LARGE GNEISS CLASTS	
108.3			STWK			Sg					10	-	1			1						100	37021	0.6	DARK GREY GNEISS WITH STWK OF QTZ + ANK + PY VEINLETS	
109.2			BRX								2	-	-			0.5						100	37022	0.9	BRX GNEISS CLASTS, WITH CARB MATRIX	
110.3			STWK		SER1						5	-	1			0.5						100	37023	1.1	GWK WITH A FIN STWK OF QTZ + ANK + PY VEINLETS. MEDIUM GRAY	
111.6					ANK1						10	-	1			1						100	37024	1.3	DARK GRAY GWK WITH STWK OF QTZ + ANK VEINS. LOCALLY BROWN	
112.8											15	-	1			0.5						100	37025	1.2	TEO. FROM 110.3 TO 114.8.	
113.5			BRX								20	-	2			1						100	37026	0.7	BRX WITH QTZ FLOODING	
114.8			STWK		SER1						5	-	1			1						100	37027	1.8		
																										QTZ EYES GNEISS (114.8 TO 134.2) MEDIUM TO DARK GREY, LOCALLY GREENISH GREY MINOR SERICITE AND



Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Names	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt					
135.7	M	CG	CLAS	GY	SER	5c					2	-	-		1						100	37039	1.5	FROM 135.7 TO 144.7 SER TCHL MATRIX, CLASIS SER	
137.2											2	-	-		1						100	37040	1.5		
138.7											1	-	-		1						100	37041	1.5		
140.2											2	-	-		1						100	37042	1.5		
141.7									V20		2	-	-		1						100	37043	1.5		
143.2											1	-	-		0.5						100	37044	1.5		
144.7											2	-	-		1						100	37045	1.5		
145.9					SER						1	-	-		0.5						100	37046	1.2	CHLORITIC MATRIX, SERICITIZED SEDIMENTS	
147.4											1	-	-		0.5						100	37047	1.5	SAME AS 145.9	
148.9											1	-	-		0.5						100	37048	1.5	SAME AS 145.9	
149.55											1	-	-		0.5						100	37049	0.65	SAME AS 145.9	
150.5			BED			5g					2	-	-		1						100	37050	0.95	GWK WITH LOCALIZED AREAS OF SERICITE.	
151.4			BLY			5c	N	55			20	-	-		2						100	37051	0.9	BRECCIATED CONGLOMERATE WITH STUCK WORK OF SERICITE	
152.9											10	-	-		1						100	37052	1.5	SERICITIZED CLASTS AND MATRIX, VEINLETS OF SERICITE.	
154.5											10	-	-		1						100	37053	1.5	SAME AS 152.9	
155.4											7	-	-		1						100	37054	0.9	SAME AS 152.9	
156.0											5	-	-		1						100	37055	0.16	SAME AS 150.9	

Rock Description							Structure				Alteration Parameters (%)														RQ	Sampl#	Wth	Comments
Dist	Com	Grs	Text	Co	Alt	Names	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt								
157.5	M	VEG	STWK	GY	SER3	QV					80	-	-		2	0.1						100	37056	1.5	LIGHT TO MEDIUM GREY QTZ VEIN WITH STWK OF SERICITE + PY			
159.0							V10				80	-	-		2	0.1						100	37057	1.5	PY IN TRACE.			
160.0											90	-	-		1	0.1						100	37058	1.0				
161.2			MBX		SER2	Sg					20	-	1		1	-						100	37059	1.2	GREWACKE + QTZ FLOODS BRACIA RED WITH QTZ ± PY ± ANK ± SER STRINGERS, CLASTS LOCALLY SERICITIZED BYA, HIGH CARBONACEOUS MATRIX @ 161.1-161.2			
162.0			BYA		SER1	Sg, QV	30				20	-	-		2	-						100	37060	0.8	BRECCIATED GWK + QTZ FLOOD WITH A 30° LCA PREFERENTIAL DIRECTION FOR ARGILLITE + PY STRINGERS, LOCALLY SERICITIZED CLASTS + MATRIX			
163.5											15	-	-		1	-						100	37061	1.5				
165.0			COT	BR	ANK1	Sg, a					25	-	2		3	-						85	37062	1.5	FROM 163.5 TO 167.5: CONTINUED DARK GRAY TO BLACK, HIGHLY CARBONACEOUS, GREWACKE + ARGILLITE LOCALLY MINOR GRAPH QTZ + ANK + PY VEINLETS/FLOODS HIGHLY BROKEN @ 163.7 to 163.85			
166.5											25	-	2		3							100	37063	1.5				
167.5											25	-	2		3							100	37064	1.0				
169.0			FOLGY		ANK3	Sg					15	-	-		1							100	37065	1.5	GREWACKE WITH SMALL BRACIATED FRAGMENTS, QTZ VEINLETS/STWK PRESENT, ANKERITIC, WITH MINOR CARBONACEOUS. LOCALLY BRECCIATED, LOCALIZED SERICITE BEDS.			
170.5											10	-	-		3							100	37066	1.5				
172.0							A10				10	-	-		1							100	37067	1.5	SAME AS 169.0			
173.3											5	-	-		1							100	37068	1.5				

Rock Description							Structure				Alteration Parameters (%)														Comments
Dist	Com	GrS	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt	RQ	Sampl#	Wth	Comments	
174.7	M	VEG	COT	BR	CAN	Sg,gn					15	-	3		2							100	37064	1.5	ARGILLITE (173.3 TO 177.7) BLACK, GRAPHITIC, CONTACTED,
176.2											10	-	2		1							100	37070	1.5	QTZ + ANK + PY FOLIATED BEDS PRESENTS. PY FOUND CUBIC ALSO
177.7											10	-	1		1							100	37071	1.5	IN MATRIX. ANKERITIC TO CARBONACEOUS ALTERATION QTZ FLOORS NOTED.
179.2	M	VEG	MBX	GY	ANK	Sg,a					5	-	1		1							100	37072	1.5	FOLIATED GRENACHE/ARGILLITE (177.7 TO 185.8)
180.4			FOL								10	-	2		1							100	37073	1.2	LIGHT TO MEDIUM GRAY FOLIATED TO ANNECATED
181.5			MBX								5	-	0.5		0.5							100	37074	1.1	GWK/ARG. ANK + MINOR SER ALT IN PRESENTS. QTZ + ANK + PY
182.2			BRX								10	-	1		0.5							100	37075	0.7	FLOORS/VEINLETS/STRG'N QTZ EYES/ANKERITE CRYSTALS/ MICRO-CLASTS LOCALLY FLOORS
182.7			FOL								20	-	2		1							100	37076	0.5	PY WITH QTZ, CUBIC IN MATRIX OR IN THIN BEDS FOLLOWING FOLIATION
183.3			BRX								25	-	5		5							100	37077	0.6	CARBONACEOUS MTX IN BRX
183.8			FOL								25	-	3		1							100	37078	0.5	
184.6			BRX								15	-	2		2							100	37079	0.8	
185.8	M	FG	COT	WHT	SER	QU, Sg	V	30			60	-	3		2							100	37080	1.2	QTZ VEINS/FLOODING + GWK WITH SERICITE + PY VEINLETS STRIKING. WHITE TO GREYISH WHITE QTZ
187.3	M	CG	BRX	GY	SER	Sg,a					25	-	2		2							100	37081	1.5	FROM 185.8 TO 188.6, BRECCIA. GWK, ARG, QTZ CLASTS IN A CARBONACEOUS + SERICITIZED + QTZ MATRIX. PY FOUND IN VEINLETS OR WITH QTZ
188.6											15	-	1		1							100	37082	1.3	

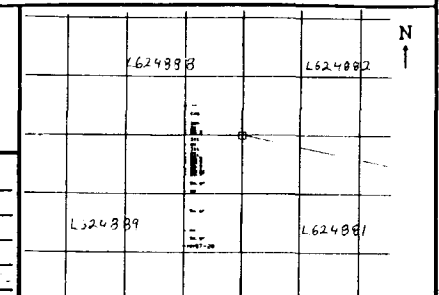
Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments
Dist	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	FE Bao				
190.1	M	FG	FOL	GG	SER2	Sg	B	20			10	-	1		2						100	37083	1.5	FROM 188.6 TO 190.1
191.1											20	-	2		1						100	37084	1.0	FOLIATED, MODERATELY SERICITIZED GNEISS. QTZ EYES PRESENT
192.1											20	-	2		1						100	37085	1.0	SER IN BEDS AND STRINGS CLASTS LOCALLY ROUNDED.
193.4					SER3		B	15			10	-	1		2		0.1	BARNITE	0.1		100	37086	1.3	FROM 192.1 TO 194.6, FOL HIGHLY SERICITIZED GWK, QTZ EYE
194.6												-	1		2						100	37087	1.2	PRESENT SER IN BEDS AND STRK
195.8					SER2		B	10			10	-	1		1						100	37088	1.2	SAME AS 190.1
197.3					SER3		B	10			10	-	1		1						100	37089	1.5	SAME AS 193.4
198.8											10	-	1		1						100	37090	1.5	FROM 197.3 TO 200.1, FOL, HIGHLY SERICITIZED GWK. QTZ
200.3											10	-	1		1						100	37091	1.5	QTZ EYES, LOCALLY UP TO 2CM DIAMETER. SER STRINGS +
201.2											10	-	1		1						100	37092	0.9	BEDS
202.1											10	-	1		1						100	37093	0.9	
202.8						QU					30	-	2		3						100	37094	0.7	GRAY QTZ FLOWINS WITH PY STRINGS. HIGHLY SERICITIZED
204.0	M	FG	FOL	GG	SER2	Sg					2	-	0.5		0.5						100	37095	1.2	FROM 202.8 TO 277.0 QTZ EYES GWK. SERICITIZED
205.0											2	-	0.5		0.5						100	37096	1.0	ALT'N DECREASING DOWN DEPT LOCALIZED NARROW QTZ + ANE + PY
206.5											4	-	1		1						100	37097	1.5	VEINLETS. FEW PY IN MATRIX
208.0											1	-	0.5		0.5						100	37098	1.5	
209.3											1	-	0.5		0.5						100	37099	1.3	
210.25							N	30			10	-	4		1						100	37100	0.95	QTZ + ANE + PY VEINLETS NOTED
211.5											1	-	0.5		0.5						100	37101	1.25	

Rock Description							Structure			Alteration Parameters (%)														RQ	Sampl#	Wth	Comments
Dist	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt							
213.0	m	Fg	Fol	Gc	SE12	Sg					1	-	0.5		0.5							100	37102	1.5			
214.5											1	-	0.5		0.5							100	37103	1.5			
216.0						GYSE21				V 10	1	-	0.5		0.5							100	37104	1.5			
217.5											1	-	0.5		0.5							100	37105	1.5			
219.0											1	-	0.5		0.5							100	37106	1.5			
220.5											1	-	0.1		0.1							100	37107	1.5			
222.0										V 10	1	-	0.1		0.1							100	37108	1.5			
223.5											1	-	0.1		0.1							100	37109	1.5			
225.0										V 20	1	-	0.1		0.1							100	37110	1.5			
226.5										V 20	1	-	0.1		0.5							100	37111	1.5			
228.0											1	-	0.1		0.5							80	37112	1.5			
229.5										V 10	1	-	0.1		0.5							90	37113	1.5			
231.0											1	-	0.1		0.5							75	37114	1.5			
232.5											1	-	0.1		0.5							100	37115	1.5			
234.0											1	-	0.5		0.5							100	37116	1.5			
235.5											1	-	0.1		0.5							100	37117	1.5			
237.0											1	-	0.1		0.5							100	37118	1.5			
250.0											0.5	-	-		0.1							95	37119	13.0	GRAB SAMPLE		
253.7										B 30	0.5	-	-		0.5							100	37120	8.7	GRAB SAMPLE		





HOLE #: ~~100-97-08~~ NORTHING: 750 S EASTING: 6700 E ELVN: 3050 LENGTH: 346.4  
 TWP: BRADLETTE Drilled by: BRADLEY Logged by: E. GENEVA Start: 1 MARCH 97  
 Claim: L624889, L624891 Core Stored: TIMMINS Casing/Size: 43m BS, NW Finish: \_\_\_\_\_



Dist	Azim	Dip	Dist	Azim	Dip	Dist	Azim	Dip	Purpose/Results:
0	180	-50'	346	179	-41.5				Test HLEM anomaly
75	180	-48'							
240	too light								
300	180	-44'							242 samples graphitic argillite 167.6-346.4. Sericite.

Dist	Rock Description						Structure			Alteration Parameters (%) <small>zed argillite and intermediate lapilli-tuff north of graphitic argillite</small>										RQ	Sampl #	Wth	Comments						
	Com	Grs	Text	Co	Alt	Namel	B	A1	F	A2	Qtz	Cal	Ank	DoL	%	Py	Po	Cpy	Sph					Asp	Mt				
43.0						CAS																							CAS
																													SHEARED THOLEIITIC VOLCANICS (43.0 TO 50.4) LIGHT TO MEDIUM GRAY CHLORITIC + SERICITIC ALTERATION ELONGATED CALCITE FILLED AMIG DULCE RAIN Qtz EYES, Qtz + CALC + DOLOMITE VEINS AND FLOORING PRESENT. FEW PV NOTED
45.0	S	VFG	SHD	GR	SKH	2sh	V	60		0.5	3	-	0.5		0.1								70	37129	1.0				
49.9	M									0.5	2	-	0.5		0.1									95	37130	0.9			
45.6							V	30		1	2	-	3		0.1									70	37131	0.7		PINK DOLOMITE (V. 45.6) 2cm WIDTH	
47.0							F	70		1	2	-	0.5		0.1									80	37132	1.4			
47.9										1	3	-	0.5		0.1									100	37133	0.9			
48.8										5	1	-	4		0.1									90	37134	0.9		Qtz + DoL FLOORING ALSO DOLOMITE VEINS	
49.0							V	50		5	1	-	1		0.1									70	37135	0.2		Qtz FLOORING 2cm WID - 45.6 - 47.0	

Rock Description							Structure				Alteration Parameters (%)													RQ	Sampl #	Wth	Comments	
Dist	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	Dol	%	Py	Po	Cpy	Sph	Asp	Mt							
50.4	M	VFG	SHD	GR	SHA	ash	F55				1	2	-	0.1		0.1								100	37136	0.8		
																												AMIGDALOIDAL THOLEIITIC VEINLINES (50.4 TO 64.2) MEDIUM GREEN MAINLY CHLORITIC, MINOR SERICITIC ALT'N. ROUNDED TO LIGHTLY ELONGATED CALC AMIGDALS CALC/QTZ/DOL VEINLETS - FLOODING PRESENT ANKERITE ALT'N LOCALLY STRONG MAGNETITE NOTED (SPICES)
51.1	M	VFG	AMIG	GR	KHL	2a	V30				1	2	-	2		0.1								100	37137	0.7		
51.4											20	5	1			1								100	37138	0.3	QTZ + ANK + CALC FLOODING	
52.9											5	2	-	3		0.5								80	37139	1.5		
54.0						ANK2					2	2	0.5	1		0.1								90	37140	1.1		
54.9											2	2	-	1		0.1								80	37141	0.9		
55.8							V40				10	5	1	10		0.5								75	37142	0.9	QTZ + CALC + DOL FLOODING LOCALIZED NARROW SHEARS	
56.5											2	1	-	-		0.1								100	37143	0.7		
57.2											2	2	-	10		0.1								90	37144	0.7	PINK DOL VEINLINES + FLUIDS PRESENT	
58.6											3	2	-	5		0.5								90	37145	1.4	QTZ + CALC + DOL FLOODS	
60.0											2	1	-	1		0.5								90	37146	1.4		
61.4											10	1	-	1										90	37147	1.4	QTZ + CALC + DOL FLOODS	
62.9							V20				6	1	-	0.5		0.5								100	37148	1.5	SAME AS 61.4	
64.2											3	1	-	0.5		0.5								100	37149	1.3		

Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl #	Wth	Comments									
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	D <sub>L</sub>	%	Py	Po	Cpy	Sph	Asp	Mt													
																																		ARGILLITE/GNEWACK (64.2 TO 74.3) MEDIUM GREENISH GREY FOLIATED TO LOCALLY BRECCIATED MODERATE SERICITE, MINOR CHL + AWK ALTERATION THIN BEDS OF PY FOLLOWING FOLIATION, QTZ + AWK + PY VEINS FLORATING PRESENT
65.7	M	VFG	FOL	GG	SERA	50g	N	25		2	0.5	0.5			1									100	37150	1.5								
67.2							N	30		2	0.5	0.5			1									95	37151	1.5								
68.4							N	25		3	1	0.5			1									90	37152	1.0								
68.8							N	30		20	1	3			2									75	37153	0.4							QTZ + AWK + PY + CHL VEINS/FLOODS	
69.1										1	-	0.1			0.1									100	37154	0.3								
69.8	B									40	2	5			5					0.1				0	37155	0.7								HIGHLY BROKEN QTZ + AWK + PY EASY FLOODS AND VEINS WHITE QTZ PY STAINERS IN QTZ
71.7							50g	N	45	1	-	-			0.5									50	37156	1.9								LOT CORE @ 70.2-70.6
72.6	M		BRX							1	1	1	15		1									80	37157	0.9								BRECCIATION WITH MAINLY DOLOMITE FILLS
73.4										1	1	1	15		1									75	37158	0.8								SAME AS 72.6
74.3										3	-	0.5	-		0.5									30	37159	0.9								BROKEN/BLOCKY (Intermediate?) LAPILLI-TUFF AFFIC VOLCANICS 74.3 TO 131.07) MEDIUM GREEN PARTLY WITH LIGHT TO MEDIUM GRAY CHL'S



Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt					
98.2	M	CG	FRAG	GG	CHL	3LT	V	05			10	-	2		3							100	37176	0.2	QTZ + PY VEINLET SUB-PARALLEL TO LCA.
99.7											2	-	0.5		0.5							100	37177	1.5	
101.2											4	-	1		0.5							95	37178	1.5	QTZ FLOODS (1cm wide)
101.6	M	WFG	COT	WIK	-	QJ					45	-	5		2							95	37179	0.4	QTZ + PY FLOODING
102.9	M	CG	FRAG	GG	CHL	3LT	V	20			2	-	0.5		0.5							100	37180	1.3	
104.0											2	-	0.5		0.1							100	37181	1.1	
105.5							V	60			5	-	1		0.5							100	37182	1.5	
107.0											3	-	0.5		0.1							100	37183	1.5	
108.5							V	60			3	-	0.5		0.1							100	37184	1.5	
110.0											5	-	1		0.5							100	37185	1.5	QTZ + PY FLOOD, 2cm wide @ 108.6
111.5							V	50			2	-	0.5		0.1							100	37186	1.5	MORE SERPENTINIC @ 110.5-110.8
113.0											2	-	0.5		0.1							100	37187	1.5	
114.5							V	45			2	-	0.5		0.1							100	37188	1.5	
116.0							V	85			2	-	0.5		0.1							100	37189	1.5	
117.2											3	-	0.5		0.1							100	37190	1.0	
117.8							V	30			10	-	3									100	37191	0.6	QTZ + ANK + TOURM + PY VEINLET S.
119.0											2	-	0.5		0.1							100	37192	1.2	
120.5							V	80			3	-	0.5		0.5							100	37193	1.5	
122.0							V	35			5	-	1		0.5							100	37194	1.5	

Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments		
	Com	GrS	Text	Co	Alt	Nome1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt							
123.2	M	CG	FRAG	SG	CHL	3LT					2	-	0.5		0.1								100	37195	1.2		
123.4		VFG	HOM	WH	-	QU					70	-	3		2								100	37196	0.2	QTZ + ANK + TOUR + PY VEIN WHITE QTZ	
124.9		CG	FRAG	SG	CHL	3LT					1	-	0.5		0.1								100	37197	1.5		
126.4											2	-	1		0.5								100	37198	1.5		
127.65											1	-	0.5		0.1								100	37199	1.25		
127.85							V	60			45	-	5		2								100	37200	0.2	QTZ + ANK + TOUR + PY VEIN, WHITE QTZ	
128.5											2	-	0.5		0.5								100	37201	0.65		
128.7							V	15			25	-	2		2								100	37202	0.2	QTZ + ANK + TOUR + PY FLOODS	
130.2											2	-	0.5		0.5								100	37203	1.5		
131.07											8	-	1		1								100	37204	0.81	QTZ FLOODING @ 131.0-131.7	
																											ARGILLITE / SILTSTONE ' FLOW 131.07 TO 167.6 LIGHT TO MEDIUM GREENISH GREY CHLORITIZED AND SERICITIZED ANK ALTERATION ALSO PRESENT. QTZ + ANK + PY VEINS / FLOODS. PY FOUND BETWEEN BEDS. (CAN BE SHEARED) EXTENSION OF 3LT)
132.5	M	VFG	FOL	GV	SCHL	Sa.s	V	50			3	-	1		1								100	37205	1.43		
133.0											3	-	1		1								100	37206	0.5		
133.45							V	35			30	-	10		5								100	37207	0.175	QTZ + ANK + PY VEINS / FLOODING	
134.0			HOM	WH	-	QU					70	-	20		5								100	37208	0.55	QTZ + ANK + TOUR + PY VEIN WHITE QTZ	

Dist	Rock Description						Structure		Alteration Parameters (%)														RQ	Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt						
134.35	M	VFG	FOL	GG	SCHL	Sa.S				15	-	3			1						100	37209	0.35			
134.65	M		HOM	WH	-	QU				80	-	10			2						100	37210	0.30	QTZ + ANK + PY + TOURMALINE VEIN WHITE QTZ		
135.3	M		FOL	GG	SCHL	Sa.S	V	60		2	-	0.5			0.5						100	37211	0.65			
135.65										35	-	5			2						100	37212	0.35	QTZ + ANK + PY VEINS		
137.0							V	70		3	-	1			0.5						100	37213	1.35			
137.4										3	-	1			0.5						100	37214	0.3			
137.7										30	-	5			1						100	37215	0.3	QTZ + ANK + PY + TOURMALINE VEINS		
138.8										2	-	0.5			0.5						100	37216	1.1			
139.6			COT	GY	-	QU				30	-	15			3						90	37217	0.8	QTZ + ANK + PY FLOODS AND VEINS		
140.8			FOL	GG	SCHL	Sa.S				5	-	2			1						100	37218	1.0			
141.2										8	-	2			0.5						100	37219	0.5			
141.85			COT	WH	-	QU				50	-	10			5						90	37220	0.55	QTZ + ANK + PY + TOURMALINE HIGHLY COT, NOT HOMOGENEOUS		
142.2						GG	SCHL	Sa.S		10	-	3			2						100	37221	0.35			
143.0						WH	-	QU		40	-	15			3						100	37222	1.0	SAME AS 141.85, WHITE + GREY 3+3		
144.2						GG	SCHL	Sa.S		15	-	5			2						100	37223	1.0	QTZ + ANK + PY FLOOD		
145.2							V	40		5	-	2			1						100	37224	1.0			
146.2										3	-	1			1						100	37225	1.0			
146.7										25	-	5			3						100	37226	0.5	QTZ + ANK + PY FLOODS/VEINS		



Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments		
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt							
147.55	M	VFG	FOL	GG	SCHL	Sa.S	V	40			5	-	1		1								100	37227	0.85		
147.9			COT	WH	-	QU					50	-	5		2								100	37228	0.35	QTZ + ANK + PY + TOUR FLOWING	
149.0			FOL	GG	SCHL	Sa.S					5	-	1		1								100	37229	1.1		
150.5							V	40			10	-	2		1								100	37230	1.5	QTZ + ANK + PY FLOWS @ 149.5-149.6, @ 150.12-150.16	
152.0							V	15			5	-	1		1								100	37231	1.5	QTZ + ANK + PY WEINLE @ 150.65	
153.5											2	-	0.5		0.5								100	37232	1.5		
155.0											5	-	2		1								100	37233	1.5	QTZ + ANK + PY FLOWS ALONG INTER- VAL	
156.5							V	50			3	-	1		0.5								100	37234	1.5		
158.0						SER2					1	-	0.5		0.5								100	37235	1.5		
159.5											3	-	0.5		0.5								100	37236	1.5		
159.75			COT	WH	SER2	QU					60	-	10		3								100	37237	0.25	QTZ + ANK + PY FLOWING	
161.0			FOL	GR		Sa.S					3	-	1		0.5								100	37238	1.25		
162.5						SER1					1	-	0.5		0.5								100	37239	1.5		
163.4						SCHL					1	-	0.5		0.5								100	37240	0.8		
163.5						LC																					LC
164.7	M	VEG	FOL	GR	SCHL	Sa.S					1	-	0.5		0.5								100	37241	0.9		
164.6											40	-	5		2								100	37242	0.8	QTZ + ANK + PY FLOWING	
165.4											2	-	0.5		0.5								100	37243	0.8		

Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments	
	Com	Grs	Text	Co	Alt	NaMel	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt						
166.8	M	VFG	FOL	GG	SER1	Sa,S					4	-	1		1							100	37244	1.4		
167.6					SER2						20	-	5		2							100	37245	0.8	QTZ + ANK + PY FLOODING.	
																										ARGILLITE (167.6 TO 346.4) BLACK, MODERATELY TO HIGHLY GRAPHITIC - QTZ + ANK + PY VEINLETS/ VEINS/FLOODING NOTED - PRIMARY, MODULAR PY NOTED - PY, SECONDARY, IN BEDS, VEIN- LETS AND LOCALITY OF IRONING
168.4	B	VFG	COT	BR	GRP	Sa,gn					40	-	3		5							70	37246	0.8	QTZ (WHITE) FLOODING WITH PY	
169.9						LC																				LC
170.9	M	VFG	COT	BR	GRP	Sa,gn	V	20			20	-	3		3							0	37247	1.0	QTZ + PY FLOODS	
171.9											2	-	-		3								30	37248	1.0	PRIMARY MODULAR PY
176.2	S										2	-	-		5								30	37249	4.3	PRIM PY, GRAB SAMPLE, LOST CORE @ 175-175.3
176.6						LC																				
177.8	S	VFG	COT	BR	GRP	Sa,gn	V	50			20	-	2		3								50	37250	1.2	BROKEN @ 176.6-176.8, WITH NARROW FAULT GOUGE??
179.0											20	-	2		2								50	37251	1.3	
180.5	M										15	-	2		1								80	37252	1.5	
182.0							V	50			15	-	2		1								95	37253	1.5	
183.5											25	-	2		3								90	37254	1.5	
185.0											15	-	2		2								100	37255	1.5	

Dist	Rock Description						Structure		Alteration Parameters (%)														RQ	Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt						
186.5	M	VRG	COF	BE	GRP	Sa,gn	V	40		10	-	1		2							100	37256	1.5			
188.0										20	-	2		3	0.1			0.1			100	37257	1.5			
189.5										10	-	1		3							100	37258	1.5			
191.0										15	-	1		3							100	37259	1.5			
192.5							V	40		15	-	2		8	0.1						100	37260	1.5			
194.0							V	35		10	-	1		4					0.1		100	37261	1.5			
195.5										10	-	2		4							100	37262	1.5			
197.0							V	35		15	-	2		3							100	37263	1.5			
198.5							V	50		15	-	3		3	0.1			0.1			100	37264	1.5			
200.0							V	45		10	-	3		3							100	37265	1.5			
201.5							V	70		20	-	3		3	0.1			0.1			100	37266	1.5			
203.0							V	60		15	-	3		3							100	37267	1.5			
204.2							V	50		8	-	2		1							100	37268	1.2			
205.7							V	50		20	-	3		3	0.1			0.1			100	37269	1.5			
206.6										15	-	3		2							100	37270	0.9			
207.5							V	70		15	-	2		2	0.1						100	37271	0.9			
209.0										15	-	3		1							100	37272	1.5			
210.5										20	-	3		2	0.1			0.1			100	37273	1.5			
212.0										30	-	2		2	0.1			0.5			100	37274	1.5			

Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt					
213.5	M	VFG	COT	BR	GNP	Sagn	V	45		20	-	2		2	0.1						90	37275	1.5		
215.0										15	-	2		2							80	37276	1.5		
216.2										15	-	2		3	0.1						60	37277	1.2	FAULT SHEAR @ 216.1-216.2. APPROX 60° LCA	
217.3				WH		QU				60	-	5		1	0.1						50	37278	0.9		
218.8				BR						10	-	2		1							95	37279	1.5		
220.3								V50		5	-	1		1							100	37280	1.5		
221.3										10	-	1		2							100	37281	1.0		
222.0										10	-	1		1							100	37282	0.7		
222.7				GY				V25		40	-	2		1							100	37283	0.7	QTZ + ANK + PI VIEW @ 222.2 TO 222.40	
224.0								V30		5	-	1		2							100	37284	1.3		
225.5										10	-	2		2							100	37285	1.5		
227.0										15	-	2		1							100	37286	1.5		
228.5										10	-	1		1							100	37287	1.5		
230								V30		7	-	0.5		1							100	37288	1.5		
231.5								V50		20	-	2		2							100	37289	1.5		
232.5								V30		4	-	-		2							100	37290	1.0		
233.5										40	-	3		2							70	37291	1.0	QTZ FLOWS. LOST CORE @ 233.1 TO 233.2. FAULT GOING @ 232.10.	

Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt					
234.5	M	VEF	COT	ACK	GVP	Sagn					10	-	1		1							80	37292	1.0	
236.0							V	45			2	-	-		5							80	37293	1.5	
237.5											5	-	-		5							100	37294	1.5	
239.0											10	-	1		4							100	37295	1.5	
240.5							V	40			10	-	1		5	0.1						100	37296	1.5	
242.0											5	-	-		5							100	37297	1.5	
243.5							V	30			5	-	-		3							100	37298	1.5	
245.0							V	35			10	-	1		2							100	37299	1.5	
246.5											7	-	-		3							100	37300	1.5	
248.0							U	35			1	-	-		5							100	37301	1.5	
249.5							V	25			3	-	-		2							100	37302	1.5	
251.0							V	35			2	-	-		2							100	37303	1.5	
252.5											2	-	-		2							100	37304	1.5	
254.0							V	40			4	-	-		2							100	37305	1.5	
255.5							V	30			10	-	1		3							100	37306	1.5	
257.0							V	35			2	-	-		4							100	37307	1.5	
258.5							V	45			10	-	1		3							100	37308	1.5	
260.0											2	-	-		4							90	37309	1.5	
261.5							V	50			5	-	-		2							90	37310	1.5	

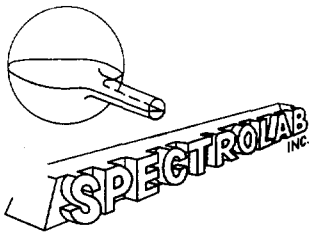
Dist	Rock Description						Structure				Alteration Parameters (%)													RQ	Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt							
263.0	M	VFO	COI	BR	GRP	Sa,gn	V	45			15	-	2		3						100	37311	1.5				
264.5							V	60			10	-	1		3	0.1					100	37312	1.5				
266.0							V	55			7	-	1		2						100	37313	1.5				
267.5											10	-	1		2						90	37314	1.5				
269.0							V	45			5	-	-		2						100	37315	1.5				
270.5							V	40			8	-	1		2						100	37316	1.5				
272.0											10	-	1		2						100	37317	1.5				
273.5							V	45			5	-	-		1						100	37318	1.5				
275.0							V	50			10	-	1		2						100	37319	1.5				
276.5							V	40			15	-	2		1	0.1					100	37320	1.5				
278.0											5	-	1		1						100	37321	1.5				
279.5											8	-	1		2						100	37322	1.5				
281.0											15	-	1		2						100	37323	1.5				
282.5							V	55			5	-	2		3						90	37324	1.5				
284.0							V	60			3	-	-		3						75	37325	1.5				
285.5											5	-	1		2						100	37326	1.5				
287.0							V	65			10	-	1		3						100	37327	1.5				
288.5							V	60			7	-	1		3						100	37328	1.5				
290.0											10	-	1		3						100	37329	1.5				

Dist	Rock Description						Structure				Alteration Parameters (%)													RQ	Sampl #	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt							
291.5	M	VFG	COT	BK	GRP	Sagn	V	25			5	-	1		2							100	37330	1.5			
292.0											5	-	1		3							100	37331	1.5			
294.5							V	60			7	-	1		2							100	37332	1.5			
296.0											2	-	-		4							100	37333	1.5			
297.5							V	50			1	-	-		3							90	37334	1.5			
299.0											2	-	-		3							100	37335	1.5			
300.5	S						V	55			10	-	1		3							80	37336	1.5			
302.0	B										3	-	-		2							40	37337	1.5	LOST CABLE @ 300.5 TO 302.8		
303.5	S										20	-	1		2							80	37338	1.5			
305.0	M										10	-	1		3							90	37339	1.5			
306.5											15	-	1		3							95	37340	1.5			
308.0							V	50			20	-	1		2							100	37341	1.5			
309.5											5	-	-		4							100	37342	1.5			
310.9											2	-	-		4							100	37343	1.4			
311.5	M	FMG	SER	MT		—					0.5	-	-		95	0.1						100	37344	0.25	MASSIVE PY (V. ID), NODULAR AND SECONDARY PY, FINE TO COARSE GRAINED		
311.8	M	VFG	COT	BK	GRP	Sagn					1	-	-		10	-						100	37345	0.65	NODULAR PY (V. ID)		
312.1											5	-	-		40	-						100	37346	0.3	SAME AS 311.1 BETWEEN 311.2 - 311.95		
313.6											5	-	-		2							100	37347	1.5			

Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt					
315.0	m	UFG	CSY	BK	GRP	So. gn					10	-	1		3						100	37348	1.4		
316.5										15	-	1		2							100	37349	1.5		
317.5							V 50			2	-	-		3							100	37350	1.0		
318.2										40	-	5		2							100	37351	0.7	QTZ + ANK + PY VEINING	
319.2							V 40			10	-	1		2							100	37352	1.0		
320.6										15	-	2		3							100	37353	1.4		
322.0										7	-	2		4							100	37354	1.4		
323.5							V 60			5	-	-		2							100	37355	1.5		
325.0										2	-	-		2							100	37356	1.5		
326.4							V 45			25	-	3		2							100	37357	1.5	QTZ + ANK + PY VEINING	
327.9										5	-	1		3							100	37358	1.5		
329.0							V 60			3	-	-		2							100	37359	1.1		
330.5							V 65			5	-	-		2							100	37360	1.5		
332.0							V 60			3	-	-		2							100	37361	1.5		
333.5							V 55			2	-	-		3							100	37362	1.5		
335.0							V 45			2	-	-		2							100	37363	1.5		
336.5										10	-	1		2							100	37364	1.5		
338.0										7	-	1		2							100	37365	1.5		
339.5							V 40			10	-	1		2							100	37366	1.5		







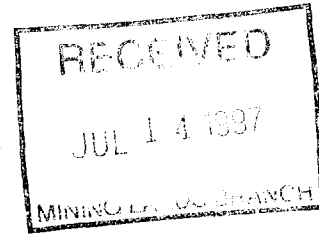
# SPECTROLAB INC.

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Rouyn-Noranda (Québec) J9X 7A5  
Tél.: (819) 797-4653 - Fax: (819) 797-4501

CERTIFICAT D'ANALYSES N°: IG-1314-A DATE: 07/03/97

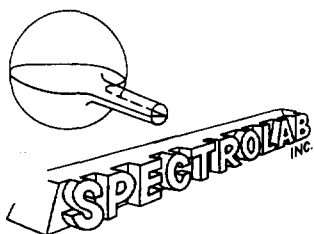
Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 26/02/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35001	0.011	
AX35002	<0.005	
AX35003	<0.005	
AX35004	0.008	
AX35005	0.012	
AX35006	0.013	
AX35007	0.020	
AX35008	0.007	
AX35009	0.008	
AX35010	0.006	
AX35011	<0.005	
AX35012	<0.005	
AX35013	<0.005	
AX35014	<0.005	
AX35015	0.012	
AX35016	<0.005	
AX35017	0.007	
AX35018	0.007	
AX35019	<0.005	
AX35020	<0.005	<0.005



\*\*YELLOW TAGS\*\*

ANALYSTE: Mira Godbout BSc



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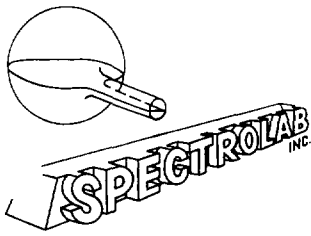
CERTIFICAT D'ANALYSES N°: IG-1314-B DATE: 07/03/97

Client: ROYAL DAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 26/02/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35021	0.009	
AX35022	0.042	
AX35023	<0.005	
AX35024	0.086	
AX35025	0.018	
AX35026	<0.005	
AX35027	0.014	
AX35028	0.012	
AX35029	<0.005	
AX35030	0.011	0.013
AX35031	0.009	
AX35032	0.010	
AX35033	<0.005	
AX35034	<0.005	
AX35035	<0.005	
AX35036	0.005	
AX35037	<0.005	
AX35038	<0.005	
AX35039	0.005	
AX35040	<0.005	<0.005

\*\*YELLOW TAGS\*\*

ANALYSTE: Mira Godbout BSc



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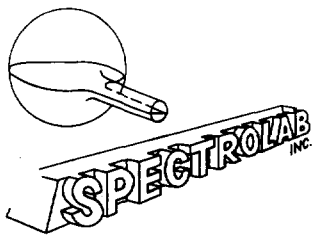
CERTIFICAT D'ANALYSES N°: IG-1314-C DATE: 07/03/97

Client: ROYAL OAK MINES LTD Échantillons: Core Mikwam Ref. 2703  
ROB BARBER 20 Projet: \_\_\_\_\_  
 Reçu de: Au Nombre d'analyses: 0.005 Date reçu: 26/02/97  
 Éléments: \_\_\_\_\_ Limite de détection: \_\_\_\_\_ Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35041	0.015	
AX35042	<0.005	
AX35043	0.016	
AX35044	0.029	
AX35045	0.047	
AX35046	0.021	
AX35047	<0.005	
AX35048	0.077	
AX35049	0.039	
AX35050	0.012	0.008
AX35051	0.079	
AX35052	0.142	
AX35053	0.020	
AX35054	0.139	
AX35055	0.015	
AX35056	<0.005	
AX35057	<0.005	
AX35058	0.039	
AX35059	0.005	
AX35060	<0.005	<0.005

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ANALYSTE: Mira Godbout BS.



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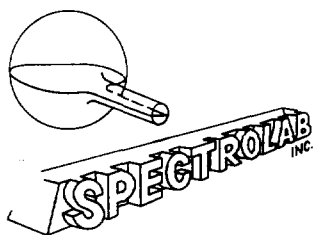
CERTIFICAT D'ANALYSES N°: IG-1314-D DATE: 07/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 26/02/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35061	0.011	
AX35062	0.012	
AX35063	0.034	
AX35064	0.050	
AX35065	0.010	
AX35066	0.018	
AX35067	0.018	
AX35068	0.015	
AX35069	0.030	
AX35070	0.012	0.008
AX35071	0.015	
AX35072	0.017	
AX35073	0.012	
AX35074	0.011	
AX35075	0.009	
AX35076	0.011	
AX35077	0.009	
AX35078	<0.005	
AX35079	0.014	
AX35080	0.012	0.012

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ANALYSTE: Mira Godbout B.Sc.



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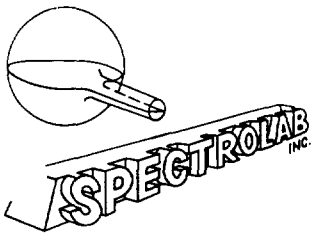
CERTIFICAT D'ANALYSES N°: IG-1314-E DATE: 07/03/97

Client: ROYAL DAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 26/02/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35081	0.007	
AX35082	0.034	
AX35083	0.015	
AX35084	0.030	
AX35085	<0.005	
AX35086	0.011	
AX35087	0.011	
AX35088	0.006	
AX35089	0.024	
AX35090	0.011	0.022
AX35091	0.011	
AX35092	0.014	
AX35093	0.014	
AX35094	0.010	
AX35095	0.012	
AX35096	0.010	
AX35102	0.027	
AX35103	0.019	
AX35104	0.013	
AX35105	0.051	0.052

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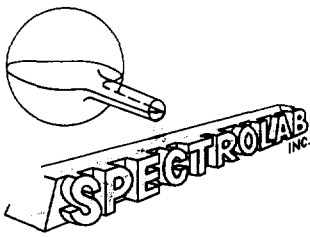
CERTIFICAT D'ANALYSES N°: IG-1314-F DATE: 07/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 26/02/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35106	0.014	
AX35108	0.016	
AX35109	0.006	
AX35110	0.078	
AX35111	<0.005	
AX35112	0.011	
AX35113	0.005	
AX35114	0.006	
AX35115	0.005	
AX35116	0.013	0.009
AX35117	0.022	
AX35118	0.005	
AX35119	0.142	
AX35120	0.063	
AX35121	<0.005	
AX35122	0.013	
AX35123	<0.005	
AX35124	<0.005	
AX35125	<0.005	
AX35126	0.005	<0.005

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CERTIFICAT D'ANALYSES N°: IG-1314-G DATE: 07/03/97

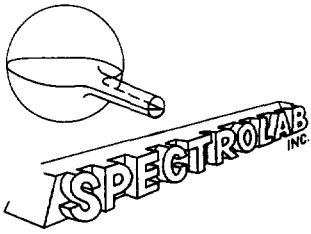
Client: ROYAL OAK MINES LTD. Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 26/02/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35127	0.053	
AX35128	0.032	
AX35129	<0.005	
AX35130	0.005	
AX35131	0.050	
AX35132	0.024	
AX35133	0.016	
AX35134	0.018	
AX35135	0.008	0.006
AX35136	0.031	
AX35137	0.083	
AX35138	0.060	
AX35139	0.093	
AX35140	0.028	
AX35141	0.152	
AX35142	0.436	
AX35143	0.288	
AX35144	0.063	
AX35145	0.024	
AX35146	0.128	0.144

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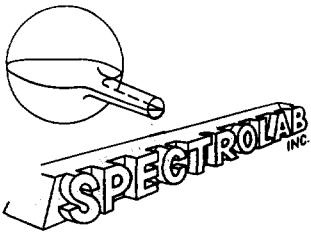
CERTIFICAT D'ANALYSES N°: IG-1314-H DATE: 07/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 26/02/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35147	0.010	
AX35148	0.009	
AX35149	0.046	
AX35150	0.002	
AX35151	0.013	
AX35152	0.007	
AX35153	0.007	
AX35154	0.022	
AX35155	0.005	
AX35156	0.012	0.015
AX35157	<0.005	
AX35158	0.011	
AX35159	0.008	
AX35160	0.010	
AX35161	0.006	
AX35162	0.006	
AX35163	0.018	
AX35164	0.005	
AX35165	0.011	
AX35166	0.005	0.009

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ANALYSTE: Mira Godbout BSc



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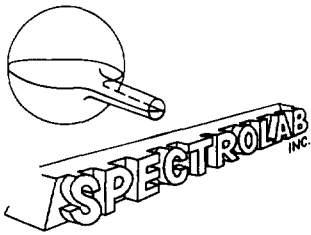
CERTIFICAT D'ANALYSES N°: IG-1314-I DATE: 07/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 26/02/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35167	0.124	
AX35168	0.015	
AX35169	0.018	
AX35170	0.019	
AX35171	0.006	
AX35172	<0.005	
AX35173	0.005	
AX35174	0.009	
AX35175	0.007	
AX35176	0.025	0.012
AX35177	0.034	
AX35178	<0.005	
AX35179	0.010	
AX35180	<0.005	
AX35181	<0.005	
AX35182	0.006	
AX35183	0.006	
AX35184	<0.005	
AX35185	0.010	
AX35186	0.013	0.005

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ANALYSTE: Mira Godbout BSO



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CERTIFICAT D'ANALYSES N°: IG-1314-J DATE: 07/03/97

Client: ROYAL OAK MINES LTD. Échantillons: Core Projet: Mikwam Ref. 2703

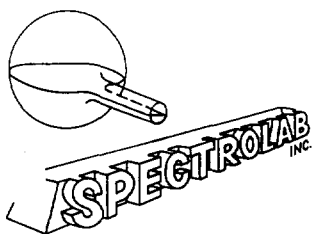
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 26/02/97

Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35187	0.008	
AX35188	0.063	
AX35189	0.010	
AX35190	0.010	
AX35191	<0.005	
AX35192	<0.005	
AX35193	0.008	
AX35194	0.005	
AX35195	0.009	
AX35196	0.009	0.011
AX35197	0.011	
AX35198	0.011	
AX35199	0.008	
AX35204	0.047	
AX35205	0.072	
AX35206	0.061	
AX35207	0.097	
AX35208	0.555	
AX35209	0.035	
AX35210	0.029	0.037

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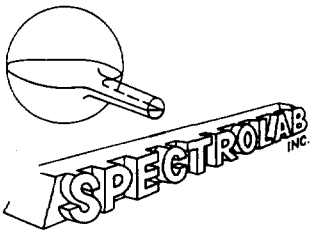
CERTIFICAT D'ANALYSES N°: IG-1314-K DATE: 07/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 26/02/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35211	0.040	
AX35212	0.052	
AX35213	0.023	
AX35214	0.038	
AX35215	0.072	
AX35216	0.057	
AX35217	0.124	
AX35218	0.089	
AX35219	0.017	
AX35220	0.100	0.118
AX35221	0.011	
AX35222	0.008	
AX35223	0.021	
AX35224	0.052	
AX35225	0.147	
AX35226	0.074	
AX35257	0.009	
AX35258	0.083	
AX35259	<0.005	
AX35260	0.011	0.005

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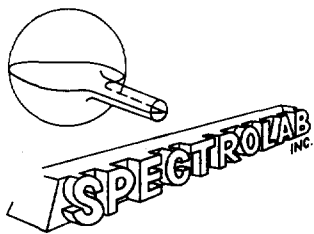
CERTIFICAT D'ANALYSES N°: IG-1314-L DATE: 07/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 26/02/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35261	0.060	
AX35262	0.014	
AX35263	0.021	
AX35264	0.007	
AX35265	<0.005	
AX35266	0.008	
AX35267	0.008	
AX35268	0.010	
AX35269	0.012	
AX35270	0.014	0.014
AX35271	0.018	
AX35272	0.021	
AX35273	0.007	
AX35274	0.040	
AX35275	0.012	
AX35276	0.015	
AX35277	0.018	
AX35278	0.033	
AX35279	0.012	
AX35280	0.030	0.047

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ANALYSTE: Mira Godbout B.Sc.



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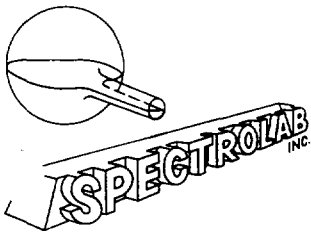
CERTIFICAT D'ANALYSES N°: IG-1315-A DATE: 07/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 26/02/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35501	0.017	
AX35502	0.009	
AX35503	0.014	
AX35504	0.005	
AX35505	0.011	
AX35506	0.013	
AX35507	0.010	
AX35508	0.012	
AX35509	0.088	
AX35510	0.062	0.054
AX35511	0.040	
AX35512	0.086	
AX35513	0.064	
AX35514	0.042	
AX35515	0.122	
AX35516	0.064	
AX35517	0.094	
AX35518	0.070	
AX35519	0.042	
AX35520	0.044	0.048

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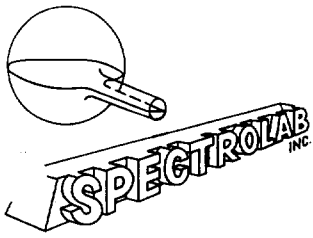
CERTIFICAT D'ANALYSES N°: IG-1315-B DATE: 07/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 26/02/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35521	0.038	
AX35522	0.010	
AX35523	0.040	
AX35524	0.042	
AX35525	0.036	
AX35526	0.036	
AX35527	0.092	
AX35528	0.038	
AX35529	0.028	
AX35530	0.022	0.028
AX35531	0.038	
AX35532	0.030	
AX35533	0.018	
AX35534	0.026	
AX35535	0.016	
AX35536	0.022	
AX35537	0.026	
AX35538	0.020	
AX35539	0.024	
AX35540	0.024	0.014

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ANALYSTE: Mira Godbout BSc.



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CERTIFICAT D'ANALYSES N°: IG-1315-C DATE: 07/03/97

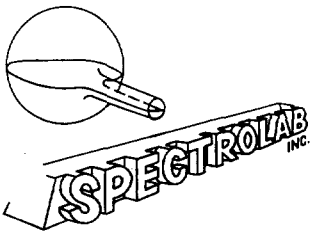
Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 26/02/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35541	0.009	
AX35542	0.014	
AX35543	0.016	
AX35544	0.009	
AX35545	0.006	
AX35546	0.005	
AX35547	0.009	
AX35548	0.011	
AX35549	0.021	
AX35550	0.007	0.007
AX35551	0.027	
AX35552	0.009	
AX35553	0.011	
AX35554	0.010	
AX35555	0.008	
AX35556	0.015	
AX35557	0.013	
AX35558	0.015	
AX35559	0.018	
AX35560	0.011	0.007

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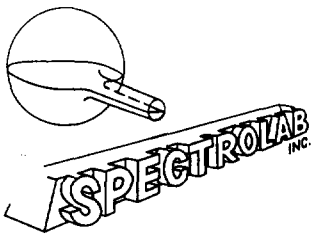
CERTIFICAT D'ANALYSES N°: IG-1315-D DATE: 07/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 26/02/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35561	0.014	
AX35562	0.055	
AX35563	0.183	
AX35564	0.003	
AX35565	0.047	
AX35566	0.027	
AX35567	0.058	
AX35568	0.010	
AX35569	0.013	
AX35570	0.016	0.021
AX35571	0.005	
AX35572	0.005	
AX35573	0.010	
AX35574	0.006	
AX35575	0.037	
AX35576	0.010	
AX35577	0.019	
AX35578	0.014	
AX35579	0.012	
AX35580	0.032	0.028

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ANALYSTE: Mira Godbout BSc.



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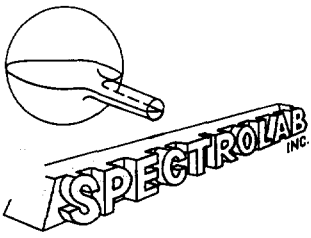
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Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 26/02/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35581	0.029	
AX35582	0.019	
AX35583	0.010	
AX35584	0.011	
AX35585	0.009	
AX35586	0.014	
AX35587	0.013	
AX35588	0.014	
AX35589	0.054	
Ax35590	0.045	0.027
AX35591	0.018	
AX35592	0.020	
AX35593	0.012	
AX35594	0.019	
AX35595	0.032	
AX35596	0.063	
AX35597	0.025	
AX35598	0.055	
AX35599	0.018	
AX35600	0.015	0.022

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ANALYSTE: Mira Guelbout BSc



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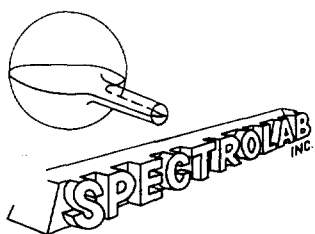
CERTIFICAT D'ANALYSES N°: IG-1315-F DATE: 07/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 26/02/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35601	0.045	
AX35602	0.016	
AX35603	0.017	
AX35604	0.012	
AX35605	0.013	
AX35606	0.011	
AX35607	0.029	
AX35608	0.007	
AX35609	0.016	
AX35610	0.036	0.054
AX35611	0.020	
AX35612	0.013	
AX35613	0.010	
AX35614	0.007	
AX35615	0.015	
AX35616	<0.005	
AX35617	0.007	
AX35618	0.005	
AX35619	0.006	
AX35620	0.007	0.007

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ANALYSTE: Mina Godbout BSc



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780, boul. de l'Université  
 Rouyn-Noranda (Québec) J9X 7A5  
 Tél.: (819) 797-4653 - Fax: (819) 797-4501

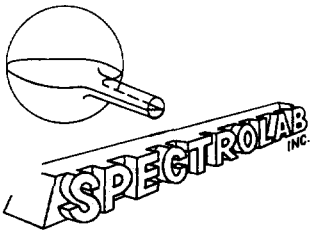
CERTIFICAT D'ANALYSES N°: IG-1315-G DATE: 07/03/97

Client: ROYAL OAK MINES LTD Échantillons: Core Mikwam Ref. 2703  
ROB BARBER 20 Projet: 26/02/97  
 Reçu de: Au Nombre d'analyses: 0.005 Date reçu: F.A./A.A.  
 Éléments: \_\_\_\_\_ Limite de détection: \_\_\_\_\_ Méthode: \_\_\_\_\_

Sample	Au g/t	Au Cks g/t
AX35621	0.006	
AX35622	0.014	
AX35623	0.022	
AX35624	0.009	
AX35625	0.009	
AX35626	0.008	
AX35627	0.011	
AX35628	0.011	
AX35629	0.017	
AX35630	0.019	0.021
AX35631	0.011	
AX35632	0.009	
AX35633	0.011	
AX35634	0.010	
AX35635	0.005	
AX35636	0.009	
AX35637	0.018	
AX35638	0.011	
AX35639	0.008	
AX35640	0.012	0.009

**\*\*YELLOW TAGS\*\***

ANALYSTE: Mira Guelbout BSc.



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CERTIFICAT D'ANALYSES N°: IG-1315-H DATE: 07/03/97

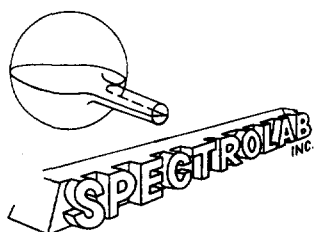
Client: ROYAL OAK MINES LTD Échantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 15 Date reçu: 26/02/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35641	0.011	
AX35642	0.006	
AX35643	0.008	
AX35644 AX35645	0.329 ***	
AX35646	0.018	
AX35647	0.018	
AX35648	0.012	
AX35649	0.015	
AX35650	0.012	0.007
AX35651	0.007	
AX35652	0.009	
AX35653	0.006	
AX35654	0.017	
AX35655	0.008	
AX35656	0.007	0.005

\*\*\*TICKETS WERE IN THE SAME BAG

\*\*YELLOW TAGS\*\*

ANALYSTE: Mira Godbout BSc



# SPECTROLAB INC.

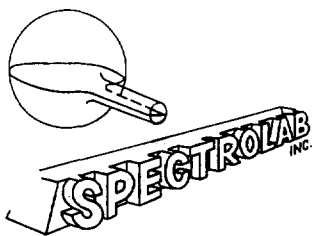
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Tél.: (819) 797-4653 - Fax: (819) 797-4501

CERTIFICAT D'ANALYSES N°: IG-1363-A DATE: 13/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core (Grab) Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 04/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35481	0.076	
AX35814	0.017	
AX35837	0.136	
AX35841	0.240	
AX35847	0.023	
AX35861	<0.005	
AX35865	<0.005	
AX35883	0.062	
AX35889	0.044	
AX35890	0.038	0.022
AX35891	0.010	
AX35895	0.024	
AX35896	0.012	
AX35897	0.032	
AX35901	0.016	
AX35907	0.012	
AX35911	<0.005	
AX35915	<0.005	
AX35919	<0.005	
AX35937	<0.005	<0.005

ANALYSTE: Mira Godbout BSc



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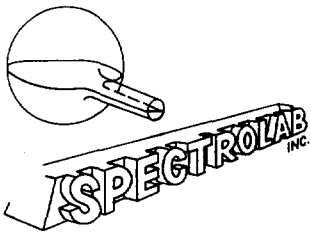
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Tél.: (819) 797-4653 - Fax: (819) 797-4501

CERTIFICAT D'ANALYSES N°: IG-1363-B DATE: 13/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core (Grab) Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 18 Date reçu: 04/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35941	<0.005	
AX35950	0.008	
AX35951	0.006	
AX35968	0.015	
AX35977	0.029	
AX35978	0.009	
AX35987	0.007	
AX37038	0.014	
AX37119	0.012	
AX37120	0.018	0.012
AX37124	0.020	
AX37128	0.012	
AX37541	0.016	
AX37542	0.019	
AX37543	<0.005	
AX37547	<0.005	
AX37548	0.006	
AX37552	0.008	

ANALYSTE: Mira Godbout B.Sc.



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CERTIFICAT D'ANALYSES N°: IG-1370-A DATE: 14/03/97

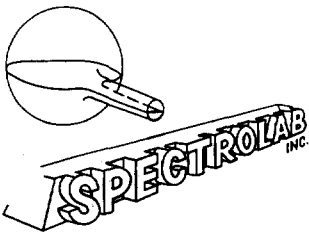
Client: ROYAL DAK MINES LTD Échantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 04/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35657	0.034	
AX35658	0.008	
AX35659	0.006	
AX35660	0.010	
AX35661	0.010	
AX35662	0.011	
AX35663	0.006	
AX35664	0.005	
AX35665	0.010	
AX35666	0.052	0.025
AX35667	0.008	
AX35668	0.010	
AX35669	0.009	
AX35670	0.012	
AX35671	0.011	
AX35672	0.014	
AX35673	0.023	
AX35674	0.023	
AX35675	0.020	
AX35676	0.010	0.018

**\*\*YELLOW TAGS\*\***

ANALYSTE: Glaude Savard B.Sc.





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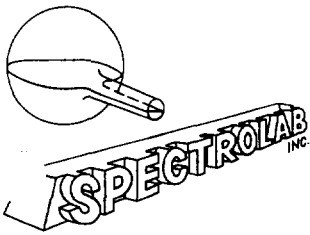
CERTIFICAT D'ANALYSES N°: IG-1370-B DATE: 14/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 04/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35677	<0.005	
AX35678	<0.005	
AX35679	0.018	
AX35680	0.009	
AX35681	0.005	
AX35682	<0.005	
AX35683	<0.005	
AX35684	<0.005	
AX35685	<0.005	
AX35686	<0.005	0.011
AX35687	<0.005	
AX35688	<0.005	
AX35689	<0.005	
AX35690	0.008	
AX35691	0.011	
AX35692	0.009	
AX35693	0.024	
AX35694	0.208	
AX35695	0.074	
AX35696	0.018	0.021

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ANALYSTE: Claude Savard, B.Sc.



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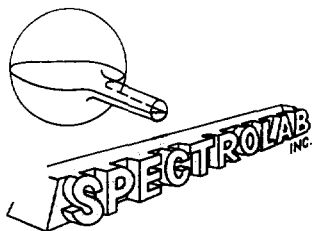
CERTIFICAT D'ANALYSES N°: IG-1370-C DATE: 14/03/97

Client: ROYAL OAK MINES LTD Échantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 04/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35697	<0.005	
AX35698	<0.005	
AX35699	0.006	
AX35700	0.006	
AX35701	<0.005	
AX35702	<0.005	
AX35703	<0.005	
AX35704	<0.005	
AX35705	0.016	
AX35706	0.007	0.008
AX35707	0.010	
AX35708	0.006	
AX35709	<0.005	
AX35710	0.007	
AX35711	0.010	
AX35712	0.010	
AX35713	0.008	
AX35714	<0.005	
AX35715	<0.005	
AX35716	<0.005	<0.005

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ANALYSTE: Claude Lavard, B.Sc.



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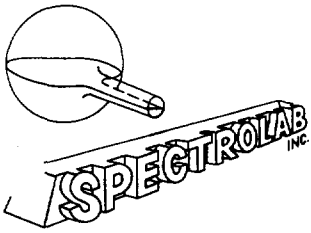
CERTIFICAT D'ANALYSES N°: IG-1370-D DATE: 14/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 04/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35717	0.031	
AX35718	0.016	
AX35719	0.010	
AX35720	0.005	
AX35721	0.015	
AX35722	0.033	
AX35723	0.006	
AX35724	0.007	
AX35725	0.007	
AX35726	0.007	<0.005
AX35727	0.050	
AX35728	0.008	
AX35729	0.023	
AX35730	0.015	
AX35731	0.014	
AX35732	0.006	
AX35733	0.018	
AX35734	0.017	
AX35735	0.007	
AX35736	0.012	<0.005

**\*\*YELLOW TAGS\*\***

ANALYSTE: Alain J. Lavoie, B.Sc.



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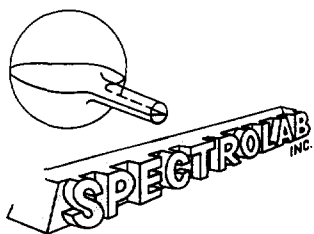
CERTIFICAT D'ANALYSES N°: IG-1370-E DATE: 14/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 04/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35737	0.008	
AX35738	0.006	
AX35739	<0.005	
AX35740	<0.005	
AX35741	0.022	
AX35742	0.032	
AX35743	0.011	
AX35744	0.108	
AX35745	0.044	
AX35746	0.046	0.048
AX35747	0.016	
AX35748	0.031	
AX35749	0.026	
AX35750	0.013	
AX35751	0.022	
AX35752	0.013	
AX35753	0.023	
AX35754	0.009	
AX35755	0.015	
AX35756	0.024	0.022

\*\*YELLOW TAGS\*\*

ANALYSTE: Claude Savard, B.Sc.



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CERTIFICAT D'ANALYSES N°: IG-1370-F DATE: 14/03/97

Client: ROYAL OAK MINES LTD Échantillons: Core Projet: Mikwam Ref. 2703

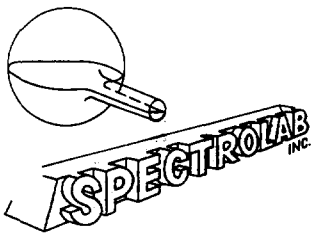
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 04/03/97

Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35757	0.007	
AX35758	0.006	
AX35759	0.006	
AX35760	0.011	
AX35761	0.011	
AX35762	0.008	
AX35763	0.013	
AX35764	0.009	
AX35765	0.028	
AX35766	0.030	0.042
AX35767	0.008	
AX35768	0.010	
AX35769	<0.005	
AX35770	<0.005	
AX35771	<0.005	
AX35772	0.005	
AX35773	0.010	
AX35774	0.027	
AX35775	0.016	
AX35776	0.021	0.017

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ANALYSTE: Claude Jaurud, B.Sc.



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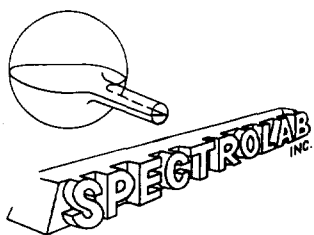
CERTIFICAT D'ANALYSES N°: IG-1370-G DATE: 14/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 04/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35777	0.019	
AX35778	0.016	
AX35779	0.019	
AX35780	0.013	
AX35781	0.017	
AX35782	0.008	
AX35783	0.009	
AX35784	0.023	
AX35785	0.013	
AX35786	0.017	<0.005
AX35787	0.038	
AX35788	0.012	
AX35789	0.016	
AX35790	0.026	
AX35791	0.023	
AX35792	0.020	
AX35793	0.011	
AX35794	0.011	
AX35795	0.010	
AX35796	0.013	0.008

**\*\*YELLOW TAGS\*\***

ANALYSTE: Glaude Savard, B.Sc.



# SPECTROLAB INC.

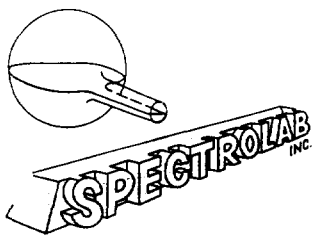
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CERTIFICAT D'ANALYSES N°: IG-1456-E DATE: 02/04/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 26/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX37525	0.131	
AX37526	0.009	
AX37527	0.033	
AX37528	0.041	
AX37529	0.018	
AX37530	0.009	
AX37531	<0.005	
AX37532	0.005	
AX37533	0.013	
AX37534	0.010	0.017
AX37535	<0.005	
AX37536	0.017	
AX37537	0.073	
AX37538	0.005	
AX37539	0.007	
AX37540	0.011	
AX37344	0.021	
AX37345	0.018	
AX37546	0.016	
AX37549	0.016	0.019

ANALYSTE: Mira Goulbort BSc



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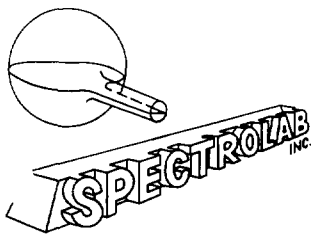
CERTIFICAT D'ANALYSES N°: IG-1456-F DATE: 01/04/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 13 Date reçu: 26/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX37550	0.019	
AX37551	0.027	
AX37553	0.008	
AX37554	<0.005	
AX37555	0.007	
AX37556	0.018	
AX37557	0.008	
AX37558	0.014	
AX37559	0.011	
AX37560	0.038	0.013
AX37561	0.366	
AX37562	0.425	
AX37563	0.057	

ANALYSTE: Mira Godbout BSc





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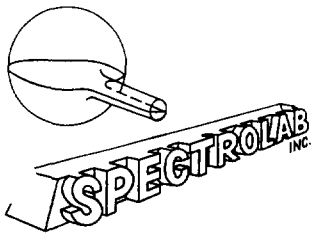
780, boul. de l'Université  
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Tél.: (819) 797-4653 - Fax: (819) 797-4501

CERTIFICAT D'ANALYSES N°: IG-1457-A DATE: 07/04/97

Client: ROYAL DAK MINES LTD Echantillons: Core Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 26/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX37350	0.032	
AX37351	0.100	
AX37352	0.080	
AX37353	0.042	
AX37354	0.072	
AX37355	0.326	
AX37356	0.148	
AX37357	0.084	
AX37358	0.054	
AX37359	0.056	0.050
AX37360	0.052	
AX37361	0.002	
AX37362	0.124	
AX37363	0.038	
AX37364	0.112	
AX37365	0.146	
AX37366	0.072	
AX37367	0.072	
AX37368	0.090	
AX37369	0.106	0.098

ANALYSTE: Mira Godbout BSc



# SPECTROLAB INC.

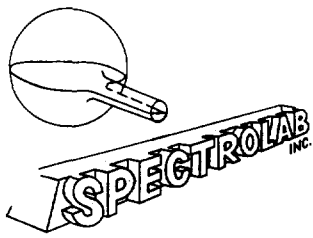
780, boul. de l'Université  
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CERTIFICAT D'ANALYSES N°: IG-1457-B DATE: 07/04/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 2 Date reçu: 26/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t
AX37370	0.040
AX37371	0.034

ANALYSTE: Mira Godbout B.Sc.



# SPECTROLAB INC.

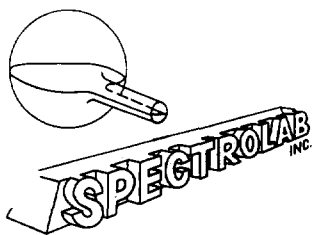
780, boul. de l'Université  
Rouyn-Noranda (Québec) J9X 7A5  
Tél.: (819) 797-4653 - Fax: (819) 797-4501

CERTIFICAT D'ANALYSES N°: IG-1481-A DATE: 14/04/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 08/04/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35811	0.039	
AX35812	0.030	
AX35813	0.027	
AX35815	0.017	
AX35816	0.020	
AX35817	0.018	
AX35818	0.026	
AX35819	0.039	
AX35820	0.155	
AX35821	0.114	0.102
AX35822	0.140	
AX35823	0.127	
AX35824	0.024	
AX35825	0.021	
AX35826	0.027	
AX35827	0.018	
AX35828	0.029	
AX35829	0.022	
AX35830	0.028	
AX35831	0.025	0.030

ANALYSTE: Mira Godbout BSc



# SPECTROLAB INC.

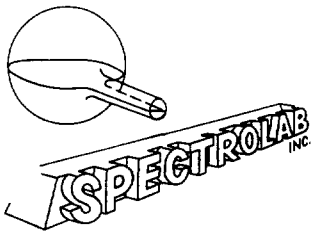
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CERTIFICAT D'ANALYSES N°: IG-1481-B DATE: 14/04/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 08/04/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35832	0.020	
AX35833	0.176	
AX35834	0.154	
AX35835	0.218	
AX35836	0.174	
AX35838	0.052	
AX35839	0.266	
AX35840	0.234	
AX35842	0.080	
AX35843	1.516	1.630
AX35844	0.065	
AX35845	0.074	
AX35846	0.096	
AX35848	0.025	
AX35849	0.013	
AX35850	0.024	
AX35851	0.018	
AX35852	0.017	
AX35853	0.019	
AX35854	0.041	0.041

ANALYSTE: Mura Godbout B.Sc.



# SPECTROLAB INC.

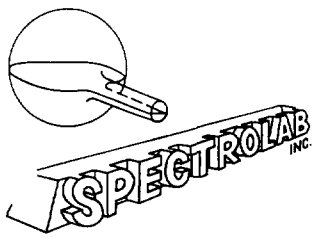
780, boul. de l'Université  
Rouyn-Noranda (Québec) J9X 7A5  
Tél.: (819) 797-4653 - Fax: (819) 797-4501

CERTIFICAT D'ANALYSES N°: IG-1481-C DATE: 14/04/97

Client: ROYAL OAK MINES LTD Echantillons: Core Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 08/04/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35855	0.044	
AX35856	0.018	
AX35857	0.020	
AX35858	0.021	
AX35859	0.019	
AX35860	0.027	
AX35862	0.016	
AX35863	0.016	
AX35864	0.016	
AX35866	0.019	0.027
AX35867	0.009	
AX35868	0.011	
AX35869	0.012	
AX35870	0.008	
AX35871	0.014	
AX35872	0.015	
AX35873	0.020	
AX35874	0.014	
AX35875	0.015	
AX35876	0.040	0.044

ANALYSTE: Mirva Godbout BSc



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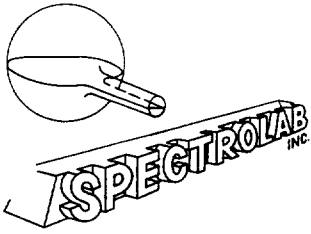
780, boul. de l'Université  
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Tél.: (819) 797-4653 - Fax: (819) 797-4501

CERTIFICAT D'ANALYSES N°: IG-1481-D DATE: 14/04/97

Client: ROYAL OAK MINES LTD Echantillons: Core Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 08/04/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35877	0.014	
AX35878	0.011	
AX35879	0.010	
AX35880	0.011	
AX35881	0.018	
AX35882	0.028	
AX35884	0.028	
AX35885	0.015	
AX35886	0.009	
AX35887	1.090	1.049
AX35888	0.010	
AX35892	0.011	
AX35893	0.007	
AX35894	0.007	
AX35898	0.024	
AX35899	0.026	
AX35900	0.028	
AX35902	0.006	
AX35903	0.010	
AX35904	0.006	<0.005

ANALYSTE: Mira Godbout BS



# SPECTROLAB INC.

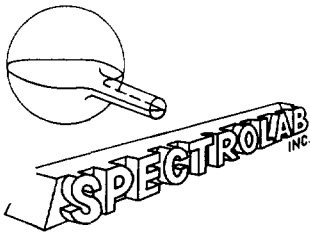
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CERTIFICAT D'ANALYSES N°: IG-1481-E DATE: 14/04/97

Client: ROYAL OAK MINES LTD Échantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 11 Date reçu: 08/04/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35905	0.019	
AX35906	0.011	
AX35908	0.010	
AX35909	0.015	
AX35910	0.013	
AX35912	0.032	
AX35913	2.314	
AX35914	0.026	
AX35916	0.017	
AX35917	0.011	0.014
AX35918	0.009	

ANALYSTE: Mira Guelbouts BSc.



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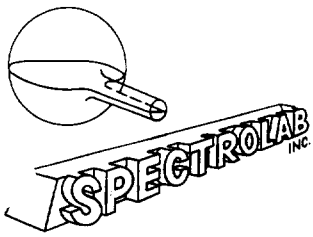
CERTIFICAT D'ANALYSES N°: IG-1482 DATE: 11/04/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: RDB BARBER Nombre d'analyses: 12 Date reçu: 08/04/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX37150	<0.005	
AX37151	0.007	
AX37152	0.005	
AX37153	<0.005	
AX37154	<0.005	
AX37155	0.034	
AX37156	0.008	
AX37157	0.005	
AX37158	0.013	
AX37159	0.010	0.006
AX37160	<0.005	
AX37161	0.005	

ANALYSTE: Mira Godbout B.Sc.





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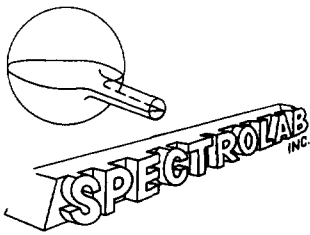
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Tél.: (819) 797-4653 - Fax: (819) 797-4501

CERTIFICAT D'ANALYSES N°: IG-1520 DATE: 08/05/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 8 Date reçu: 05/05/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX37376	0.025	
AX37377	0.009	
AX37378	0.010	
AX37379	0.008	
AX37380	0.006	
AX37381	0.024	
AX37382	0.009	
AX37383	0.010	0.016

ANALYSTE: Mira Godbout BSc



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CERTIFICAT D'ANALYSES N°: IG-1521 DATE: 09/05/97

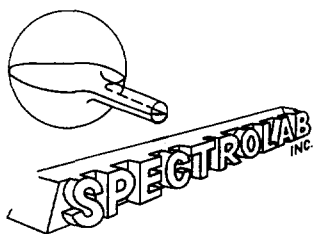
Client: ROYAL OAK MINES LTD Échantillons: Core Projet: Mikwam Ref. 2703

Reçu de: ROB BARBER Nombre d'analyses: 21 Date reçu: 05/05/97

Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX37384	0.114	
AX37385	0.246	
AX37386	0.200	
AX37387	0.238	
AX37388	0.026	
AX37389	0.036	
AX37390	0.038	
AX37391	0.088	
AX37392	0.050	
AX37393	0.084	0.103
AX37394	0.034	
AX37395	0.028	
AX37396	0.050	
AX37397	0.148	
AX37398	0.058	
AX37399	0.116	
AX37400	0.238	
AX37401	0.092	
AX37402	0.576	
AX37403	0.322	0.344
AX37404	0.040	

ANALYSTE: Mira Godbout B.Sc.



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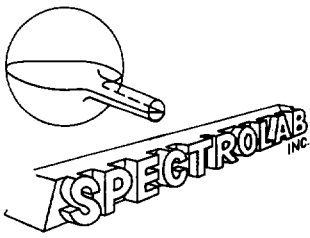
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Tél.: (819) 797-4653 - Fax: (819) 797-4501

CERTIFICAT D'ANALYSES N°: \_\_\_\_\_ DATE: 29/04/97

Client: ROYAL OAK MINES LTD Echantillons: Rejects Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 32 Date reçu: \_\_\_\_\_  
Éléments: Au Limite de détection: \_\_\_\_\_ Méthode: F.A./BALANCE

Sample	Certificat #	Au g/t
AX35369	IG-1371-D	0.549
AX35370	IG-1371-D	0.754
AX35371	IG-1371-D	0.343
AX35372	IG-1371-D	1.611
AX35373	IG-1371-D	2.777
AX35374	IG-1371-D	0.583
AX35375	IG-1371-E	<0.034
AX35398	IG-1371-E	0.377
AX35399	IG-1371-E	0.309
AX35400	IG-1371-E	3.154
AX35235	IG-1434-A	2.160
AX35236	IG-1434-A	0.926
AX35237	IG-1434-B	2.469
AX35238	IG-1434-B	3.154
AX35239	IG-1434-B	0.651
AX35240	IG-1434-B	0.823
AX35241	IG-1434-B	2.469
AX35242	IG-1434-B	5.760
AX35243	IG-1434-B	5.246
AX35244	IG-1434-B	0.514
AX35245	IG-1434-B	1.543
AX35246	IG-1434-B	1.714
AX35247	IG-1434-B	0.103
AX35248	IG-1434-B	<0.034
AX35249	IG-1434-B	0.823
AX35250	IG-1434-B	1.371
AX35251	IG-1434-B	3.943
AX35252	IG-1434-B	4.011
AX35253	IG-1434-B	3.531
AX35254	IG-1434-B	0.720
AX35255	IG-1434-B	4.594
AX35913	IG-1481-E	<0.034

ANALYSTE: Mira Godbout BSc



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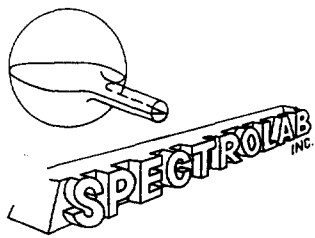
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CERTIFICAT D'ANALYSES N°: IG-1434-A DATE: 26/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 17/03/97  
Éléments: Au Limite de détection: 0.034 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35097	<0.034	
AX35098	<0.034	
AX35099	<0.034	
AX35100	<0.034	
AX35101	0.034	
AX35102	0.034	
AX35200	0.069	
AX35201	0.309	
AX35202	0.789	
AX35203	0.446	0.446
AX35227	0.034	
AX35228	0.034	
AX35229	0.137	
AX35230	0.069	
AX35231	0.034	
AX35232	0.034	
AX35233	0.069	
AX35234	0.034	
AX35235	1.371	
AX35236	0.789	0.720

ANALYSTE: Mira Godbout BSc



# SPECTROLAB INC.

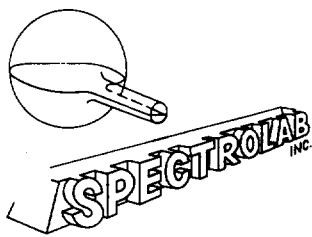
780, boul. de l'Université  
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Tél.: (819) 797-4653 - Fax: (819) 797-4501

CERTIFICAT D'ANALYSES N°: IG-1434-B DATE: 26/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 17/03/97  
Éléments: Au Limite de détection: 0.034 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t	Au Cks F.A. g/t
AX35237	2.400		
AX35238	2.743		
AX35239	0.617		
AX35240	0.926		
AX35241	2.400		
AX35242	4.937		
AX35243	5.829		
AX35244	0.377		
AX35245	1.166		
AX35246	2.057	1.920	
AX35247	0.137		
AX35248	0.069		
AX35249	0.549		
AX35250	1.097		
AX35251	2.880		
AX35252	3.703		
AX35253	2.743		
AX35254	0.582		
AX35255	7.474		6.651
AX35256	0.069	0.069	

ANALYSTE: Mira Godbout



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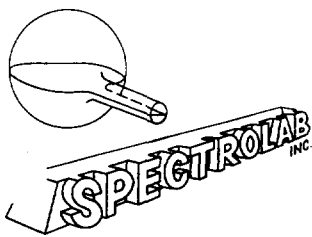
CERTIFICAT D'ANALYSES N°: IG-1311-A DATE: 27/02/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 21 Date reçu: 26/02/97  
Éléments: Au Limite de détection: 0.034 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35281	0.034	
AX35282	<0.034	
AX35284	0.034	
AX35317	0.034	
AX35319	0.034	
AX35323	0.034	
AX35325	<0.034	
AX35333	0.034	
AX35338	0.034	
AX35342	0.034	0.034
AX35345	0.034	
AX35348	0.034	
AX35350	0.034	
AX35352	2.743	
AX35376	0.789	
AX35377	0.034	
AX35378	3.840	
AX35379	0.617	
AX35380	1.783	
AX35381	1.371	
AX35382	1.714	

**\*\*RUSH SAMPLES - ORANGE TAGS\*\***

ANALYSTE: Mira Godbout BS



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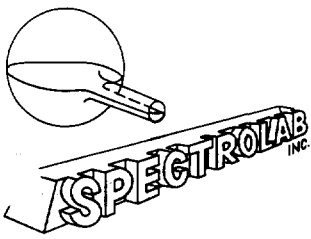
CERTIFICAT D'ANALYSES N°: IG-1311-B DATE: 27/02/97

Client: ROYAL OAK MINES LTD Echantillons: Core Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 26/02/97  
Éléments: Au Limite de détection: 0.034 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35383	0.446	
AX35384	1.851	
AX35385	2.743	
AX35386	2.343	
AX35387	2.674	
AX35388	4.114	
AX35389	0.720	
AX35390	0.343	
AX35391	0.240	
AX35392	0.411	0.411
AX35393	0.274	
AX35394	0.514	
AX35395	0.240	
AX35396	0.137	
AX35397	0.069	
AX35406	<0.034	
AX35407	<0.034	
AX35408	<0.034	
AX35409	<0.034	
AX35410	<0.034	<0.034

**\*\*RUSH SAMPLES - ORANGE TAGS\*\***

ANALYSTE: Mira Godbout BS



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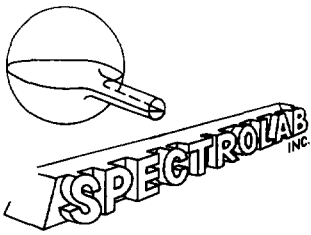
CERTIFICAT D'ANALYSES N°: IG-1441-C DATE: 27/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 21/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX37701	0.042	
AX37702	0.006	
AX37703	0.170	
AX37704	0.010	
AX37705	0.024	
AX37706	0.027	
AX37707	0.372	
AX37708	0.017	
AX37709	0.011	
AX37710	0.022	0.043
AX37711	0.042	
AX37712	0.144	
AX37713	0.022	
AX37714	0.024	
AX37715	0.110	
AX37716	0.012	
AX37717	0.012	
AX37718	0.060	
AX37719	0.007	
AX37720	0.008	0.009

ANALYSTE: Mira Godbout BS





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CERTIFICAT D'ANALYSES N°: IG-1441-D DATE: 27/03/97

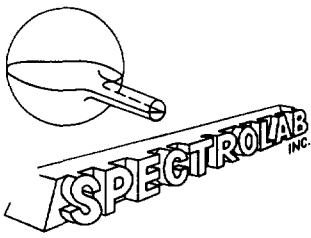
Client: ROYAL OAK MINES LTD Échantillons: Core Projet: Kwam Ref. 2703

Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 21/03/97

Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX37721	0.031	
AX37722	0.023	
AX37723	0.018	
AX37724	0.013	
AX37725	0.045	
AX37726	0.010	
AX37727	0.012	
AX37728	0.009	
AX37729	0.013	
AX37730	0.010	0.007
AX37731	0.022	
AX37732	0.008	
AX37733	0.007	
AX37734	<0.005	
AX37735	0.014	
AX37736	0.008	
AX37737	0.008	
AX37738	0.009	
AX37739	0.008	
AX37740	0.007	0.007

ANALYSTE: Mira Godbout BSc



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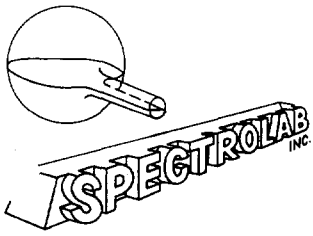
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CERTIFICAT D'ANALYSES N°: IG-1441-E DATE: 27/03/97

Client: ROYAL OAK MINES LTD. Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 21/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX37741	0.031	
AX37742	0.014	
AX37743	0.011	
AX37744	0.026	
AX37745	0.015	
AX37746	0.006	
AX37747	0.009	
AX37748	0.007	
AX37749	0.007	
AX43286	0.006	<0.005
AX43287	0.058	
AX43288	0.013	
AX43289	0.014	
AX43290	0.012	
AX43291	0.022	
AX43292	0.010	
AX43293	0.015	
AX43294	0.009	
AX43295	0.010	
AX43296	0.006	<0.005

ANALYSTE: Mira Godbout BSc



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CERTIFICAT D'ANALYSES N°: IG-1441-F DATE: 27/03/97

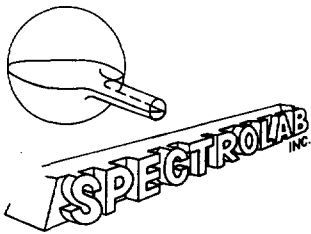
Client: ROYAL OAK MINES LTD Échantillons: Core Projet: Mikwam Ref. 2703

Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 21/03/97

Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX43297	0.005	
AX43298	0.009	
AX43299	0.012	
AX43300	0.009	
AX43301	<0.005	
AX43302	0.014	
AX43303	0.005	
AX43304	0.008	
AX43305	0.008	
AX43306	0.008	0.007
AX43307	<0.005	
AX43308	0.007	
AX43309	0.006	
AX43310	0.009	
AX43311	0.015	
AX43312	0.019	
AX43313	0.009	
AX43314	0.011	
AX43315	0.011	
AX43316	0.010	0.007

ANALYSTE: Mira Godbout



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CERTIFICAT D'ANALYSES N°: IG-1441-G DATE: 27/03/97

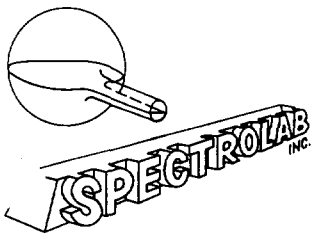
Client: ROYAL OAK MINES LTD Échantillons: Core Projet: Mikwam Ref. 2703

Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 21/03/97

Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX43317	0.009	
AX43318	0.008	
AX43319	0.012	
AX43320	0.020	
AX43321	0.013	
AX43322	0.011	
AX43323	0.009	
AX43324	0.016	
AX43325	0.011	
AX43326	0.008	0.009
AX43327	0.024	
AX43328	0.017	
AX43329	0.020	
AX43330	0.017	
AX43331	0.018	
AX43332	0.018	
AX43333	0.015	
AX43334	0.014	
AX43335	0.013	
AX43336	0.051	0.064

ANALYSTE: Mira Godbout



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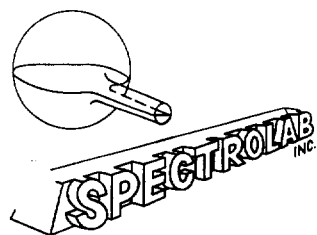
780, boul. de l'Université  
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CERTIFICAT D'ANALYSES N°: IG-1441-H DATE: 27/03/97

Client: ROYAL DAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 21/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX43337	0.009	
AX43338	0.014	
AX43339	0.012	
AX43340	0.016	
AX43341	0.011	
AX43342	0.008	
AX43343	0.017	
AX43344	0.012	
AX43345	0.011	
AX43346	0.016	0.021
AX43347	0.035	
AX43348	0.010	
AX43349	0.012	
AX43350	0.014	
AX43351	0.014	
AX43352	0.014	
AX43353	0.015	
AX43354	0.012	
AX43355	0.014	
AX43356	0.016	0.010

ANALYSTE: Mira Godbout B.Sc.



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CERTIFICAT D'ANALYSES N°: IG-1441-I DATE: 27/03/97

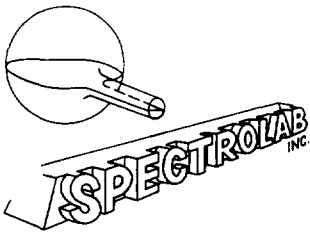
Client: ROYAL OAK MINES LTD Échantillons: Core Projet: Mikwam Ref. 2703

Reçu de: ROB BARBER Nombre d'analyses: 18 Date reçu: 21/03/97

Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX43357	0.024	
AX43358	0.012	
AX43359	0.011	
AX43360	0.009	
AX43361	0.015	
AX43362	0.013	
AX43363	0.013	
AX43364	0.040	
AX43365	0.027	
AX43366	0.024	0.016
AX43367	0.019	
AX43368	0.030	
AX43369	0.023	
AX43370	0.021	
AX43371	0.015	
AX43372	0.016	
AX43373	0.011	
AX43374	0.010	

ANALYSTE: Mira Godbout BS



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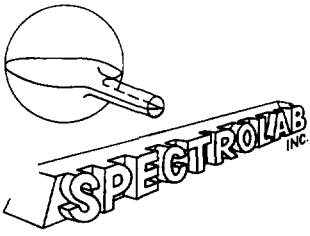
780, boul. de l'Université  
Rouyn-Noranda (Québec) J9X 7A5  
Tél.: (819) 797-4653 - Fax: (819) 797-4501

CERTIFICAT D'ANALYSES N°: 16-1456-A DATE: 01/04/97

Client: ROYAL OAK MINES LTD Echantillons: Core Proj. Mikwan Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 26/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35938	0.014	
AX35939	0.014	
AX35940	0.025	
AX35942	0.014	
AX35943	0.015	
AX35944	0.014	
AX35945	0.018	
AX35946	0.012	
AX35947	0.013	
AX35948	0.021	0.010
AX35949	0.015	
AX35952	0.016	
AX35953	0.008	
AX35954	<0.005	
AX35955	0.011	
AX35956	0.008	
AX35957	0.008	
AX35958	0.013	
AX35959	0.008	
AX35960	0.010	0.014

ANALYSTE: Mira Godbout BSc



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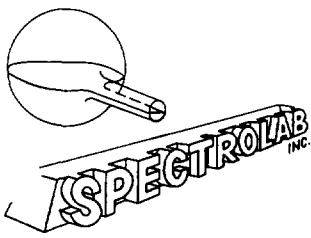
CERTIFICAT D'ANALYSES N°: IG-1456-B DATE: 01/04/97

Client: ROYAL OAK MINES LTD Échantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 26/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35961	0.011	
AX35962	0.019	
AX35963	0.012	
AX35964	0.016	
AX35965	0.030	
AX35966	0.018	
AX35967	0.022	
AX35969	0.022	
AX35970	0.021	
AX35971	0.026	0.021
AX35972	0.019	
AX35973	0.008	
AX35974	0.018	
AX35975	0.019	
AX35976	0.023	
AX35979	0.017	
AX35980	0.019	
AX35981	0.023	
AX35982	0.011	
AX35983	0.019	0.006

ANALYSTE: Mira Godbout, BSc





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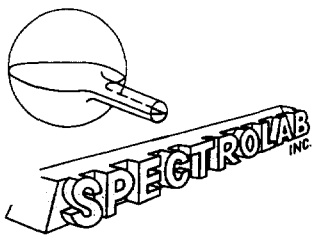
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CERTIFICAT D'ANALYSES N°: IG-1456-C DATE: 01/04/97

Client: ROYAL OAK MINES LTD Échantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 26/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35984	0.020	
AX35985	0.066	
AX35986	0.025	
AX35988	0.020	
AX35989	0.012	
AX35990	0.022	
AX35991	0.023	
AX35992	0.024	
AX35993	0.017	
AX35994	0.024	0.023
AX35995	0.010	
AX35996	0.052	
AX35997	0.040	
AX35998	0.016	
AX35999	0.018	
AX36000	0.016	
AX37501	0.020	
AX37502	0.025	
AX37503	0.043	
AX37504	0.019	0.016

ANALYSTE: Mira Godbout B.Sc.



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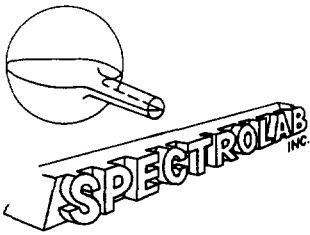
780, boul. de l'Université  
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CERTIFICAT D'ANALYSES N°: IG-1456-D DATE: 01/04/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 26/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX37505	0.047	
AX37506	0.020	
AX37507	0.019	
AX37508	0.013	
AX37509	0.019	
AX37510	0.014	
AX37511	0.039	
AX37512	0.012	
AX37513	0.014	
AX37514	0.008	0.009
AX37515	0.031	
AX37516	0.024	
AX37517	0.013	
AX37518	0.010	
AX37519	0.015	
AX37520	0.051	
AX37521	0.013	
AX37522	0.014	
AX37523	0.036	
AX37524	0.092	0.135

ANALYSTE: Mira Godbout BS



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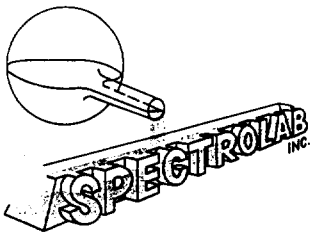
CERTIFICAT D'ANALYSES N°: IG-1370-H DATE: 14/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
 Reçu de: ROB BARBER Nombre d'analyses: 14 Date reçu: 04/03/97  
 Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35797	0.011	
AX35798	0.028	
AX35799	0.012	
AX35800	0.025	
AX35801	0.045	
AX35802	0.017	
AX35803	0.013	
AX35804	0.074	
AX35805	0.012	
AX35806	<0.005	0.016
AX35807	0.013	
AX35808	0.015	
AX35809	0.013	
AX35810	0.017	

**\*\*YELLOW TAGS\*\***

ANALYSTE: Claude Gauthier, B.Sc.



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CERTIFICAT D'ANALYSES N°: IG-1371-A DATE: 14/03/97

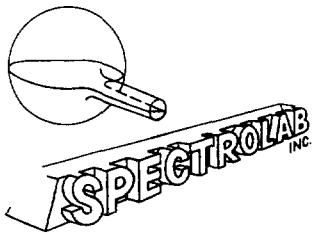
Client: ROYAL OAK MINES LTD Echantillons: Core Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 04/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35283	<0.005	
AX35285	<0.005	
AX35286	<0.005	
AX35287	<0.005	
AX35288	<0.005	
AX35289	<0.005	
AX35290	<0.005	
AX35291	<0.005	
AX35292	<0.005	
AX35293	0.006	0.006
AX35294	0.006	
AX35295	0.023	
AX35296	0.008	
AX35297	<0.005	
AX35298	0.007	
AX35299	0.018	
AX35300	0.014	
AX35301	0.007	
AX35302	<0.005	
AX35303	<0.005	0.007

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ANALYSTE

*Claude Jaurud B.Sc.*



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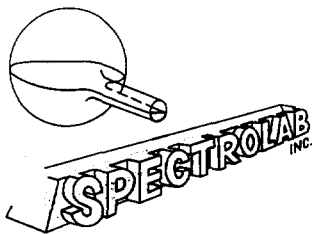
CERTIFICAT D'ANALYSES N°: IG-1371-B DATE: 14/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 04/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35304	0.037	
AX35305	0.088	
AX35306	0.103	
AX35307	0.052	
AX35308	0.056	
AX35309	0.023	
AX35310	0.019	
AX35311	0.021	
AX35312	0.024	
AX35313	0.032	0.021
AX35314	0.061	
AX35315	0.015	
AX35316	0.014	
AX35318	0.012	
AX35320	0.011	
AX35321	0.031	
AX35322	<0.005	
AX35324	0.020	
AX35326	0.027	
AX35327	0.011	0.005

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ANALYSTE: Claude Jaurud, B.Sc.



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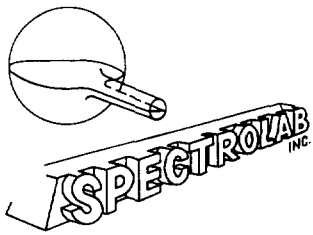
CERTIFICAT D'ANALYSES N°: IG-1371-C DATE: 14/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 04/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35328	0.006	
AX35329	0.020	
AX35330	0.006	
AX35331	0.018	
AX35332	0.006	
AX35334	<0.005	
AX35335	0.005	
AX35336	0.020	
AX35337	0.009	
AX35339	0.010	0.023
AX35340	0.037	
AX35341	0.007	
AX35343	0.009	
AX34344	0.014	
AX35346	0.007	
AX35347	0.017	
AX35349	0.019	
AX35351	0.010	
AX35353	<0.005	
AX35354	0.023	0.022

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ANALYSTE: Claude Jaurand, B.Sc.



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CERTIFICAT D'ANALYSES N°: IG-1371-D DATE: 14/03/97

Client: ROYAL OAK MINES LTD Échantillons: Core Projet: Mikwan Ref. 2703

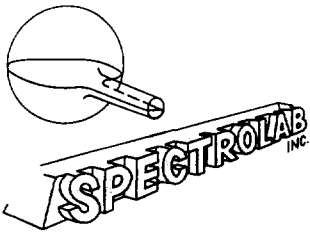
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 04/03/97

Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35355	0.007	
AX35356	0.007	
AX35357	0.012	
AX35358	0.006	
AX35359	<0.005	
AX35360	<0.005	
AX35361	0.038	
AX35362	0.792	
AX35363	0.015	
AX35364	<0.005	<0.005
AX35365	<0.005	
AX35366	0.012	
AX35367	0.006	
AX35368	0.064	
AX35369	0.539	
AX35370	0.801	
AX35371	0.022	
AX35372	1.399	
AX35373	2.492	
AX35374	0.147	0.115

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ANALYSTE Claude Savard B.Sc.



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CERTIFICAT D'ANALYSES N°: IG-1371-E DATE: 14/03/97

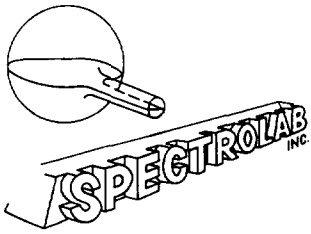
Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 9 Date reçu: 04/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35375	0.033	
AX35398	0.047	
AX35399	0.010	
AX35400	2.875	
AX35401	0.017	
AX35402	0.006	
AX35403	<0.005	
AX35404	<0.005	
AX35405	0.007	0.022

**\*\*YELLOW TAGS\*\***

ANALYSTE Alain Jaurand B.Sc.





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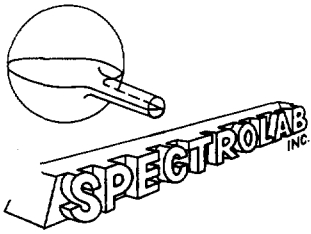
780, boul. de l'Université  
Rouyn-Noranda (Québec) J9X 7A5  
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CERTIFICAT D'ANALYSES N°: IG-1391-A DATE: 18/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 04/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35411	0.011	
AX35412	0.008	
AX35413	0.011	
AX35414	0.013	
AX35415	0.014	
AX35416	0.014	
AX35417	<0.005	
AX35418	<0.005	
AX35419	0.006	
AX35420	0.017	0.011
AX35421	0.011	
AX35422	0.005	
AX35423	0.013	
AX35424	0.006	
AX35425	0.009	
AX35426	0.012	
AX35427	0.010	
AX35428	0.006	
AX35429	0.005	
AX35430	0.008	0.009

ANALYSTE: Mira Godbout B.Sc.



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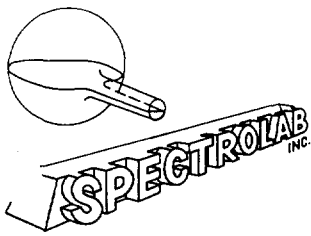
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CERTIFICAT D'ANALYSES N°: IG-1391-B DATE: 18/03/97

Client: ROYAL OAK MINES LTD Échantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 04/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35431	0.082	
AX35432	0.046	
AX35433	0.034	
AX35434	0.039	
AX35435	0.050	
AX35436	0.009	
AX35437	0.007	
AX35438	0.022	
AX35439	0.014	
AX35440	0.010	0.012
AX35441	0.018	
AX35442	0.011	
AX35443	0.018	
AX35444	0.080	
AX35445	0.036	
AX35446	0.023	
AX35447	0.041	
AX35448	0.060	
AX35449	0.010	
AX35450	0.013	0.016

ANALYSTE: Mira Godbout B.Sc.



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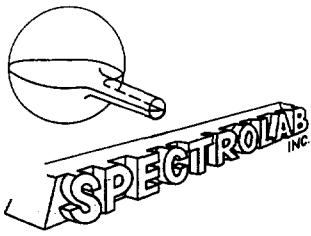
780, boul. de l'Université  
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Tél.: (819) 797-4653 - Fax: (819) 797-4501

CERTIFICAT D'ANALYSES N°: IG-1391-C DATE: 18/03/97

Client: ROYAL OAK MINES LTD Échantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 04/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35451	0.024	
AX35452	0.071	
AX35453	0.019	
AX35454	0.067	
AX35455	0.010	
AX35456	0.008	
AX35457	0.013	
AX35458	0.018	
AX35459	0.015	
AX35460	0.037	0.046
AX35461	0.026	
AX35462	0.016	
AX35463	0.019	
AX35464	0.008	
AX35465	0.018	
AX35466	0.032	
AX35467	0.017	
AX35468	0.018	
AX35469	0.071	
AX35470	0.011	0.005

ANALYSTE: Mira Godbout BSc.



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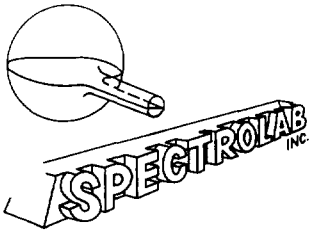
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Rouyn-Noranda (Québec) J9X 7A5  
Tél.: (819) 797-4653 - Fax: (819) 797-4501

CERTIFICAT D'ANALYSES N°: IG-1389 DATE: 18/03/97

Client: ROYAL OAK MINES LTD Échantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 17 Date reçu: 12/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35920	0.041	
AX35921	0.017	
AX35922	0.012	
AX35923	0.012	
AX35924	0.006	
AX35925	0.005	
AX35926	0.018	
AX35927	0.007	
AX35928	<0.005	
AX35929	0.005	0.007
AX35930	0.009	
AX35931	0.015	
AX35932	<0.005	
AX35933	0.007	
AX35934	0.005	
AX35935	<0.005	
AX35936	<0.005	

ANALYSTE: Mira Godbout BSz



# SPECTROLAB INC.

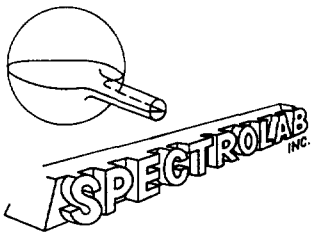
780, boul. de l'Université  
Rouyn-Noranda (Québec) J9X 7A5  
Tél.: (819) 797-4653 - Fax: (819) 797-4501

CERTIFICAT D'ANALYSES N°: IG-1391-D DATE: 18/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 8 Date reçu: 04/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX35471	0.011	
AX35472	0.260	
AX35473	0.010	
AX35474	0.085	
AX35475	0.007	
AX35476	0.034	
AX35477	0.053	
AX35478	0.010	<0.005

ANALYSTE: Mira Godbout BSc



# SPECTROLAB INC.

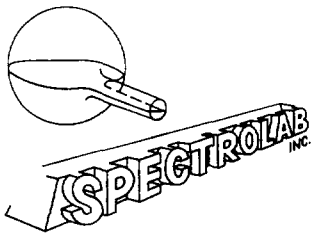
780, boul. de l'Université  
Rouyn-Noranda (Québec) J9X 7A5  
Tél.: (819) 797-4653 - Fax: (819) 797-4501

CERTIFICAT D'ANALYSES N°: IG-1416-A DATE: 25/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 12/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX37564	0.007	
AX37565	0.015	
AX37566	0.007	
AX37567	0.011	
AX37568	0.006	
AX37569	0.007	
AX37570	0.008	
AX37571	0.007	
AX37572	<0.005	
AX37573	0.009	0.008
AX37574	0.007	
AX37575	<0.005	
AX37576	<0.005	
AX37577	<0.005	
AX37578	0.007	
AX37579	0.007	
AX37580	0.014	
AX37581	0.022	
AX37582	0.010	
AX37583	0.009	0.013

ANALYSTE: Mira Gauthier BSc



# SPECTROLAB INC.

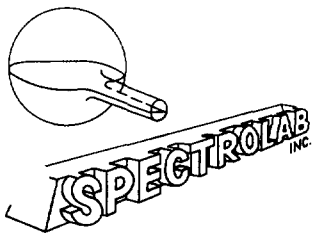
780, boul. de l'Université  
Rouyn-Noranda (Québec) J9X 7A5  
Tél.: (819) 797-4653 - Fax: (819) 797-4501

CERTIFICAT D'ANALYSES N°: IG-1416-B DATE: 25/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: RDB BARBER Nombre d'analyses: 20 Date reçu: 12/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX37584	0.008	
AX37585	0.009	
AX37586	0.009	
AX37587	0.006	
AX37588	0.008	
AX37589	0.006	
AX37590	0.009	
AX37591	0.010	
AX37592	0.009	
AX37593	0.021	0.019
AX37594	0.006	
AX37595	0.019	
AX37596	0.011	
AX37597	0.014	
AX37598	0.025	
AX37599	0.024	
AX37600	0.014	
AX37601	0.010	
AX37602	0.013	
AX37603	0.014	0.012

ANALYSTE: Mira Godbout BS



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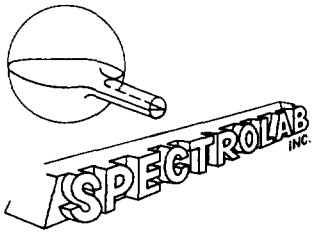
CERTIFICAT D'ANALYSES N°: IG-1416-C DATE: 25/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 12/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX37604	<0.005	
AX37605	0.006	
AX37606	0.012	
AX37607	0.007	
AX37608	0.013	
AX37618	0.015	
AX37619	0.010	
AX37620	0.010	
AX37621	0.008	
AX37622	0.011	0.011
AX37623	0.008	
AX37624	0.018	
AX37625	0.009	
AX37626	0.019	
AX37627	0.008	
AX37628	0.012	
AX37629	0.026	
AX37630	0.010	
AX37631	0.019	
AX37632	0.014	0.011

ANALYSTE: Mira Guelbout Be





# SPECTROLAB INC.

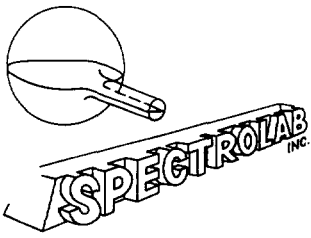
780, boul. de l'Université  
Rouyn-Noranda (Québec) J9X 7A5  
Tél.: (819) 797-4653 - Fax: (819) 797-4501

CERTIFICAT D'ANALYSES N°: IG-1416-D DATE: 25/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 12/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX37633	0.019	
AX37634	0.037	
AX37635	0.012	
AX37636	0.024	
AX37637	0.012	
AX37638	0.023	
AX37639	0.005	
AX37640	0.012	
AX37641	0.031	
AX37642	0.017	0.011
AX37643	0.006	
AX37644	0.006	
AX37645	0.008	
AX37646	0.014	
AX37647	0.008	
AX37648	0.009	
AX37649	0.005	
AX37650	<0.005	
AX37651	0.008	
AX37652	0.267	0.206

ANALYSTE: Mira Godelout BSc



# SPECTROLAB INC.

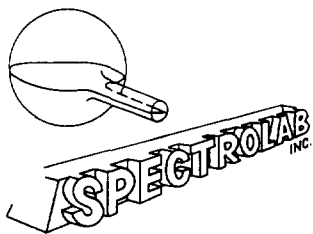
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CERTIFICAT D'ANALYSES N°: IG-1416-E DATE: 25/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 18 Date reçu: 12/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX37653	0.038	
AX37654	0.049	
AX37655	0.009	
AX37656	0.070	
AX37657	<0.005	
AX37658	<0.005	
AX37659	<0.005	
AX37660	0.009	
AX37661	<0.005	
AX37662	0.008	0.003
AX37663	<0.005	
AX37664	<0.005	
AX37665	<0.005	
AX37666	<0.005	
AX37667	0.012	
AX37668	0.005	
AX37669	<0.005	
AX37750	<0.005	

ANALYSTE: Mira Godbout



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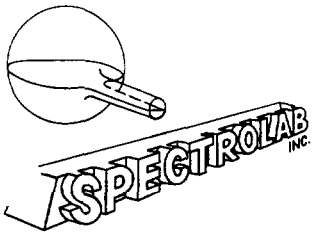
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Tél.: (819) 797-4653 - Fax: (819) 797-4501

CERTIFICAT D'ANALYSES N°: IG-1439-A DATE: 25/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 21/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX43375	0.045	
AX43376	0.168	
AX43377	0.008	
AX43378	0.020	
AX43379	0.028	
AX43380	0.017	
AX43381	0.028	
AX43382	0.042	
AX43383	0.016	
AX43384	0.056	0.015
AX43385	0.024	
AX43386	0.054	
AX43387	0.041	
AX43388	0.010	
AX43389	0.015	
AX43390	0.024	
AX43391	0.063	
AX43392	0.006	
AX43393	0.006	
AX43394	0.020	0.008

ANALYSTE: Mira Godbout B.Sc.



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CERTIFICAT D'ANALYSES N°: IG-1439-B DATE: 25/03/97

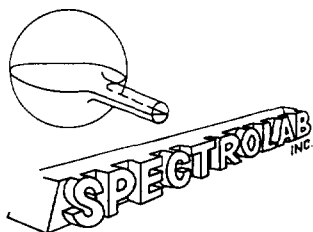
Cient: ROYAL OAK MINES LTD Échantillons: Core Projet: Mikwam Ref. 2703

Reçu de: ROB BARBER Nombre d'analyses: 2 Date reçu: 21/03/97

Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t
AX43395	0.076
AX43396	0.017

ANALYSTE: Mira Godbout B.S.



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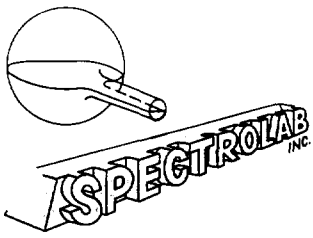
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CERTIFICAT D'ANALYSES N°: IG-1438-A DATE: 26/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 21/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX37313	0.035	
AX37314	0.026	
AX37315	0.024	
AX37316	0.040	
AX37317	0.022	
AX37318	0.024	
AX37319	0.022	
AX37320	0.016	
AX37321	0.029	
AX37322	0.028	0.047
AX37323	0.027	
AX37324	0.026	
AX37325	0.008	
AX37326	0.015	
AX37327	0.024	
AX37328	0.025	
AX37329	0.016	
AX37330	0.016	
AX37331	0.025	
AX37332	0.019	0.010

ANALYSTE: Mira Godbout BSc



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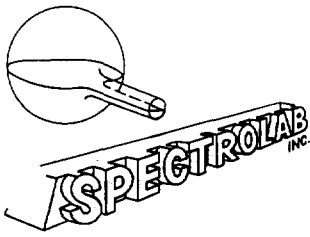
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CERTIFICAT D'ANALYSES N°: IG-1438-B DATE: 26/03/97

Client: ROYAL OAK MINES LTD Échantillons: Core Projet: Ikwan Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 17 Date reçu: 21/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX37333	0.010	
AX37334	0.011	
AX37335	0.011	
AX37336	0.011	
AX37337	0.020	
AX37338	0.008	
AX37339	0.008	
AX37340	0.008	
AX37341	<0.005	
AX37342	0.014	0.015
AX37343	0.036	
AX37344	0.124	
AX37345	0.022	
AX37346	0.100	
AX37347	0.005	
AX37348	0.008	
AX37349	0.013	

ANALYSTE: Mira Godbout BSc



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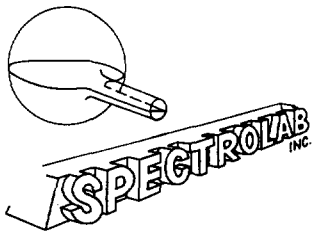
780, boul. de l'Université  
Rouyn-Noranda (Québec) J9X 7A5  
Tél.: (819) 797-4653 - Fax: (819) 797-4501

CERTIFICAT D'ANALYSES N°: IG-1440-B DATE: 26/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 21/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX37149	0.005	
AX37162	0.005	
AX37163	0.021	
AX37164	<0.005	
AX37165	<0.005	
AX37166	0.007	
AX37167	0.007	
AX37168	0.008	
AX37169	0.015	
AX37170	0.010	0.013
AX37171	0.028	
AX37172	0.006	
AX37173	0.022	
AX37174	0.014	
AX37175	0.009	
AX37176	0.018	
AX37177	0.017	
AX37178	0.165	
AX37179	0.833	
AX37180	0.026	0.051

ANALYSTE: Mira Godbout BSc



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CERTIFICAT D'ANALYSES N°: IG-1440-A DATE: 26/03/97

Client: ROYAL OAK MINES LTD Échantillons: Core Projet: Mikwam Ref. 2703

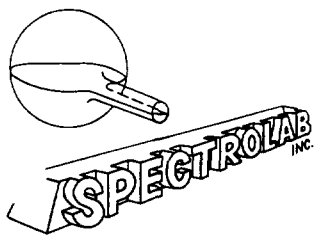
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 21/03/97

Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX37129	0.027	
AX37130	0.032	
AX37131	0.014	
AX37132	0.006	
AX37133	0.006	
AX37134	0.006	
AX37135	0.007	
AX37136	0.019	
AX37137	<0.005	
AX37138	0.008	0.011
AX37139	0.007	
AX37140	0.590	
AX37141	0.005	
AX37142	0.009	
AX37143	0.019	
AX37144	0.021	
AX37145	0.010	
AX37146	0.018	
AX37147	0.011	
AX37148	0.087	0.036

ANALYSTE: Mira Godbout BSc.





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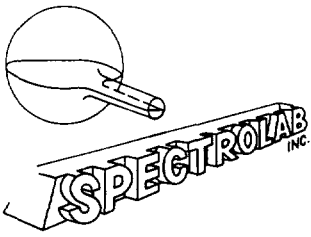
780, boul. de l'Université  
Rouyn-Noranda (Québec) J9X 7A5  
Tél.: (819) 797-4653 - Fax: (819) 797-4501

CERTIFICAT D'ANALYSES N°: IG-1440-C DATE: 26/03/97

Client: ROYAL OAK MINES LTD Échantillons: Core Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 21/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX37181	<0.005	
AX37182	0.010	
AX37183	0.007	
AX37184	<0.005	
AX37185	0.006	
AX37186	0.012	
AX37187	0.013	
AX37188	0.057	
AX37189	0.023	
AX37190	0.020	0.014
AX37191	0.009	
AX37192	0.053	
AX37193	0.020	
AX37194	0.007	
AX37195	0.010	
AX37196	0.006	
AX37197	0.011	
AX37198	0.011	
AX37199	<0.005	<0.005
AX37200	0.006	

ANALYSTE: Mira Godbout Bz



# SPECTROLAB INC.

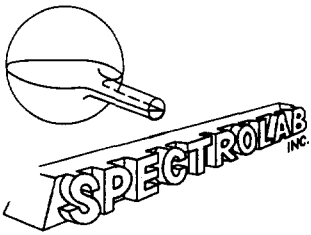
780, boul. de l'Université  
Rouyn-Noranda (Québec) J9X 7A5  
Tél.: (819) 797-4653 - Fax: (819) 797-4501

CERTIFICAT D'ANALYSES N°: IG-1440-D DATE: 26/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 21/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX37201	0.025	
AX37202	0.067	
AX37203	0.024	
AX37204	0.145	
AX37205	0.023	
AX37206	0.029	
AX37207	0.005	
AX37208	<0.005	
AX37209	<0.005	
AX37210	0.013	0.007
AX37211	0.009	
AX37212	0.012	
AX37213	0.014	
AX37214	0.034	
AX37215	0.024	
AX37216	<0.005	
AX37217	0.006	
AX37218	0.011	
AX37219	0.005	
AX37220	0.010	0.036

ANALYSTE: Mira Gauthier BSc



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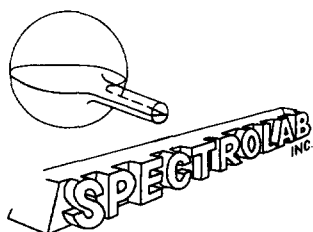
780, boul. de l'Université  
Rouyn-Noranda (Québec) J9X 7A5  
Tél.: (819) 797-4653 - Fax: (819) 797-4501

CERTIFICAT D'ANALYSES N°: IG-1440-E DATE: 26/03/97

Client: ROYAL OAK MINES LTD Échantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 21/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX37221	0.033	
AX37222	0.013	
AX37223	0.035	
AX37224	0.016	
AX37225	0.009	
AX37226	0.017	
AX37227	0.010	
AX37228	0.013	
AX37229	0.030	
AX37230	0.014	0.016
AX37231	0.016	
AX37232	0.013	
AX37233	0.020	
AX37234	0.024	
AX37235	0.021	
AX37236	0.011	
AX37237	0.044	
AX37238	0.011	
AX37239	0.013	
AX37240	0.020	0.009

ANALYSTE: Mira Godbout B.Sc.



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CERTIFICAT D'ANALYSES N°: IG-1440-F DATE: 26/03/97

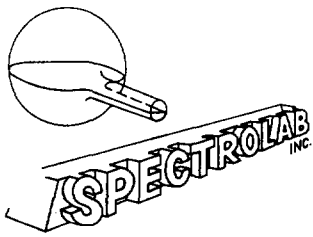
Client: ROYAL OAK MINES LTD Échantillons: Core Project: Mikwan Ref. 2703

Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 21/03/97

Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX37242	0.014	
AX37243	0.013	
AX37244	0.009	
AX37245	0.013	
AX37246	0.038	
AX37247	0.078	
AX37248	0.038	
AX37249	0.054	
AX37250	0.046	
AX37251	0.044	0.042
AX37252	0.022	
AX37253	0.030	
AX37254	0.050	
AX37255	0.048	
AX37256	0.062	
AX37257	0.062	
AX37258	0.048	
AX37259	0.080	
AX37260	0.168	
AX37261	0.054	0.056

ANALYSTE: Mira Godbout BSc



# SPECTROLAB INC.

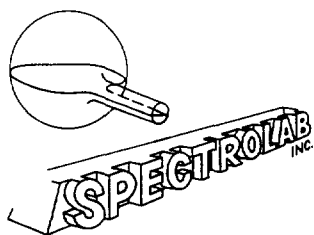
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Tél.: (819) 797-4653 - Fax: (819) 797-4501

CERTIFICAT D'ANALYSES N°: IG-1440-G DATE: 26/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 21/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX37262	0.054	
AX37263	0.068	
AX37264	0.028	
AX37265	0.044	
AX37266	0.098	
AX37267	0.046	
AX37268	0.018	
AX37269	0.054	
AX37270	0.024	
AX37271	0.028	0.016
AX37272	0.024	
AX37273	0.028	
AX37274	0.040	
AX37275	0.052	
AX37276	0.110	
AX37277	0.078	
AX37278	0.050	
AX37279	0.084	
AX37280	0.078	
AX37281	0.074	0.068

ANALYSTE: Mura Godbout Hsu



# SPECTROLAB INC.

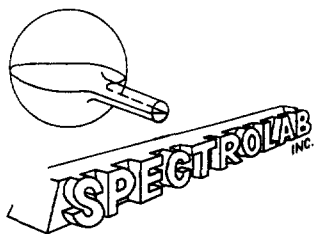
780, boul. de l'Université  
Rouyn-Noranda (Québec) J9X 7A5  
Tél.: (819) 797-4653 - Fax: (819) 797-4501

CERTIFICAT D'ANALYSES N°: IG-1440-H DATE: 26/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 21/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX37282	0.050	
AX37283	0.010	
AX37284	0.058	
AX37285	0.068	
AX37286	0.060	
AX37287	0.040	
AX37288	0.028	
AX37289	0.042	
AX37290	0.022	
AX37291	0.018	0.014
AX37292	0.024	
AX37293	0.034	
AX37294	0.032	
AX37295	0.034	
AX37296	0.032	
AX37297	0.028	
AX37298	0.046	
AX37299	0.030	
AX37300	0.026	
AX37301	0.030	0.030

ANALYSTE: Mira Godbout BSc



# SPECTROLAB INC.

780, boul. de l'Université  
Rouyn-Noranda (Québec) J9X 7A5  
Tél.: (819) 797-4653 - Fax: (819) 797-4501

CERTIFICAT D'ANALYSES N°: IG-1440-I DATE: 27/03/97

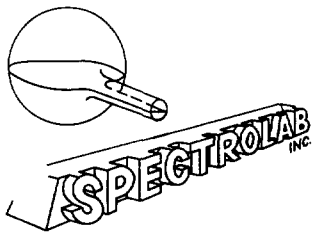
Client: ROYAL OAK MINES LTD L'Échantillon: Core Projet: Matkwan Ref. 2703

Reçu de: ROB BARBER Nombre d'analyses: 11 Date reçu: 21/03/97

Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX37302	0.048	
AX37303	0.084	
AX37304	0.048	
AX37305	0.052	
AX37306	0.040	
AX37307	0.048	
AX37308	0.050	
AX37309	0.058	
AX37310	0.048	
AX37311	0.040	
AX37312	0.052	0.050

ANALYSTE: Mira Godbout BSc



# SPECTROLAB INC.

780, boul. de l'Université  
Rouyn-Noranda (Québec) J9X 7A5  
Tél.: (819) 797-4653 - Fax: (819) 797-4501

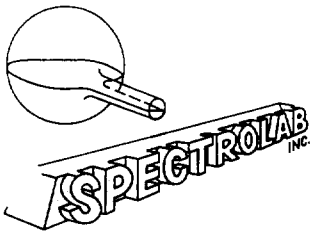
CERTIFICAT D'ANALYSES N°: IG-1441-B DATE: 27/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core Projet: Mikwam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 21/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX37681	<0.005	
AX37682	0.009	
AX37683	0.006	
AX37684	0.028	
AX37685	0.007	
AX37686	0.014	
AX37687	0.010	
AX37688	0.008	
AX37689	0.009	
AX37690	0.008	0.011
AX37691	0.013	
AX37692	0.014	
AX37693	0.005	
AX37694	0.009	
AX37695	0.006	
AX37696	0.006	
AX37697	0.005	
AX37698	0.008	
AX37699	0.136	
AX37700	0.019	0.008

ANALYSTE: Mira Gauthier BSc





# SPECTROLAB INC.

780, boul. de l'Université  
Rouyn-Noranda (Québec) J9X 7A5  
Tél.: (819) 797-4653 - Fax: (819) 797-4501

CERTIFICAT D'ANALYSES N°: IG-1441-A DATE: 27/03/97

Client: ROYAL OAK MINES LTD Echantillons: Core Miknam Ref. 2703  
Reçu de: ROB BARBER Nombre d'analyses: 20 Date reçu: 21/03/97  
Éléments: Au Limite de détection: 0.005 Méthode: F.A./A.A.

Sample	Au g/t	Au Cks g/t
AX37609	0.019	
AX37610	<0.005	
AX37611	0.032	
AX37612	<0.005	
AX37613	0.012	
AX37614	0.009	
AX37615	0.006	
AX37616	0.006	
AX37617	<0.005	
AX37670	<0.005	0.009
AX37671	<0.005	
AX37672	<0.005	
AX37673	0.012	
AX37674	0.006	
AX37675	0.023	
AX37676	<0.005	
AX37677	0.007	
AX37678	0.010	
AX37679	<0.005	
AX37680	0.029	0.019

ANALYSTE: Mira Godbout B.Sc.

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

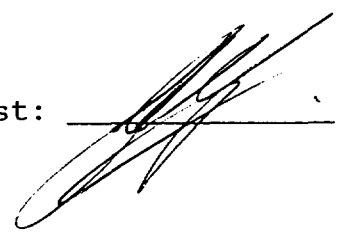
Exploration 5675-2703

Hole Number: MK-97-27  
 Date Assayed: 04/11/97  
 Week/Tray: 97APR07/AF029

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	AX35479		0.001	35
2	AX35480		0.001	35
3	AX35482		0.001	35
4	AX35483		0.001	35
5	AX35484		0.001	35
-----				
6	AX35485		0.001	35
7	AX35486		0.004	135
8	AX35487		0.023	790
9	AX35488		0.001	35
10	AX35489		0.004	135
-----				
11	AX35490		0.001	35
12	AX35491		0.001	35
13	AX35492		0.002	70
14	AX35493		0.001	35
15	AX35494		0.001	35
-----				
16	AX35495		0.001	35
17	AX35496		0.001	35
18	BLANK	Blank	0.001	35
19	CONTROL	Control	0.104	3570
20				
21				
22				
23				
24				

Geologist: R. BARBER

Chief Chemist: \_\_\_\_\_



Assay Lab Copy

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

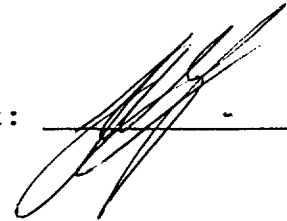
Exploration 5675-2703

Hole Number: MK-97-27  
 Date Assayed: 04/11/97  
 Week/Tray: 97APR07/AF030

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	AX35497		0.001	35
2	AX35498		0.001	35
3	AX35499		0.026	890
4	AX35500		0.003	105
5	AX37001		0.014	480
-----				
6	AX37002		0.001	35
7	AX37003		0.014	480
8	AX37004		0.001	35
9	AX37005		0.006	205
10	AX37006		0.004	135
-----				
11	AX37007		0.003	105
12	AX37008		0.002	70
13	AX37009		0.007	240
14	AX37010		0.019	650
15	AX37011		0.002	70
-----				
16	AX37012		0.004	135
17	AX37013		0.001	35
18	BLANK	Blank	0.001	35
19	CONTROL	Control	0.101	3460
20				
21				
22				
23				
24				

Geologist: R. BARBER

Chief Chemist: \_\_\_\_\_



ROYAL OAK ANALYTICAL LABORATORY

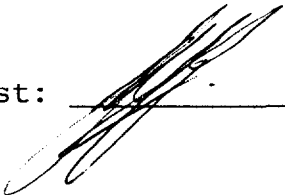
CERTIFICATE OF ANALYSIS

Exploration 5675-2703

Hole Number: MK-97-27  
 Date Assayed: 04/11/97  
 Week/Tray: 97APR07/AF031

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	AX37014		0.001	35
2	AX37015		0.001	35
3	AX37016		0.001	35
4	AX37017		0.006	205
5	AX37018		0.002	70
-----				
6	AX37019		0.001	35
7	AX37020		0.001	35
8	AX37021		0.001	35
9	AX37022		0.001	35
10	AX37023		0.002	70
-----				
11	AX37024		0.001	35
12	AX37025		0.001	35
13	AX37026		0.006	205
14	AX37027		0.001	35
15	AX37028		0.001	35
-----				
16	AX37029		0.001	35
17	AX37030		0.012	410
18	BLANK	Blank	0.001	35
19	CONTROL	Control	0.099	3390
20				
21				
22				
23				
24				

Geologist: R. BARBER

Chief Chemist: 

Exploration Copy

ROYAL OAK ANALYTICAL LABORATORY

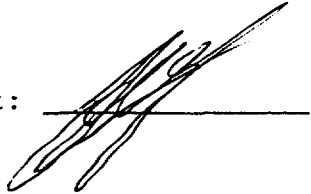
CERTIFICATE OF ANALYSIS

Exploration 5675-2703

Hole Number: MK-97-27  
 Date Assayed: 04/14/97  
 Week/Tray: 97APR07/AF032

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	AX37031		0.010	345
2	AX37032		0.001	35
3	AX37033		0.005	170
4	AX37034		0.006	205
5	AX37035		0.002	70
6	AX37036		0.002	70
7	AX37037		0.003	105
8	BLANK	Blank	0.001	35
9	CONTROL	Control	0.101	3460
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				

Geologist: R. BARBER

Chief Chemist: 

Assay Lab Copy

ROYAL OAK ANALYTICAL LABORATORY

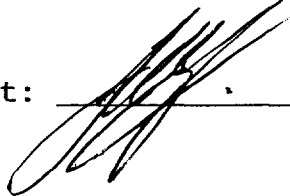
CERTIFICATE OF ANALYSIS

Exploration 5675-2703

Hole Number: MK-97-27  
 Date Assayed: 05/01/97  
 Week/Tray: 97APR21/AF013

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	AX37040	Re-Assay	0.010	345
2	AX37041	Re-Assay	0.001	35
3	AX37042	Re-Assay	0.001	35
4	AX37043	Re-Assay	0.001	35
5	AX37044	Re-Assay	0.005	170
6	AX37048	Re-Assay	0.002	70
7	AX37055	Re-Assay	0.001	35
8	AX37058	Re-Assay	0.001	35
9	AX37059	Re-Assay	0.014	480
10	AX37060	Re-Assay	0.012	410
11	AX37061	Re-Assay	0.013	445
12	AX37062	Re-Assay	0.032	1100
13	AX37063	Re-Assay	0.002	70
14	AX37064	Re-Assay	0.018	615
15	AX37065	Re-Assay	0.010	345
16	AX37066	Re-Assay	0.010	345
17	AX37074	Re-Assay	0.002	70
18	BLANK	Blank	0.001	35
19	CONTROL	Control	0.100	3430
20				
21				
22				
23				
24				

Geologist: R. BARBEER

Chief Chemist: 

Exploration Copy

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

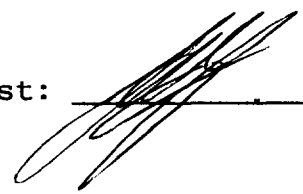
Exploration 5675-2703

Hole Number: MK-97-27  
 Date Assayed: 04/18/97  
 Week/Tray: 97APR14/AF004

*Entered*

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	AX37048		0.003	105
2	AX37050		0.001	35
3	AX37051		0.002	70
4	AX37105		0.001	35
5	AX37060		0.003	105
-----				
6	AX37085		0.001	35
7	AX37064		0.006	205
8	AX37091		0.001	35
9	AX37090		0.001	35
10	AX37098		0.028	960
-----				
11	AX37107		0.001	35
12	AX37106		0.001	35
13	AX37109		0.001	35
14	AX37049		0.001	35
15	AX37127		0.004	135
-----				
16	AX37053		0.001	35
17	AX37055		0.003	105
18	BLANK	Blank	0.001	35
19	CONTROL	Control	0.106	3630
20				
21				
22				
23				
24				

Geologist: R. BARBER

Chief Chemist: 

Exploration Copy

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS


Exploration 5675-2703

Hole Number: MK-97-27  
 Date Assayed: 04/18/97  
 Week/Tray: 97APR14/AF003

*Entered*

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	AX37061		0.004	135
2	AX37086		0.003	105
3	AX37063		0.008	275
4	AX37062		0.001	35
5	AX37058		0.007	240
-----				
6	AX37103		0.018	615
7	AX37057		0.001	35
8	AX37087		0.007	240
9	AX37059		0.013	445
10	AX37089		0.001	35
-----				
11	AX37108		0.004	135
12	AX37102		0.001	35
13	AX37088		0.004	135
14	AX37101		0.001	35
15	AX37104		0.004	135
-----				
16	AX37084		0.004	135
17	AX37083		0.002	70
18	BLANK	Blank	0.001	35
19	CONTROL	Control	0.103	3530
20				
21				
22				
23				
24				

Geologist: R. BARBER

Chief Chemist: 

Exploration Copy



ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-2703

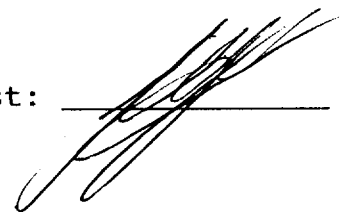
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 Date Assayed: 04/16/97  
 Week/Tray: 97APR14/AF014

*Entered*

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	AX37076		0.005	170
2	AX37075		0.004	135
3	AX37074		0.004	135
4	AX37114		0.003	105
5	AX37067		0.001	35
-----				
6	AX37081		0.002	70
7	AX37115		0.006	205
8	AX37077		0.007	240
9	AX37113		0.004	135
10	AX37045		0.001	35
-----				
11	AX37082		0.005	170
12	AX37080		0.004	135
13	AX37079		0.001	35
14	AX37042		0.004	135
15	AX37041		0.002	70
-----				
16	AX37078		0.001	35
17	AX37043		0.003	105
18	AX37044		0.003	105
19	BLANK	Blank	0.001	35
20	CONTROL	Control	0.099	3390
-----				
21				
22				
23				
24				

Geologist: R. BARBER

Chief Chemist: \_\_\_\_\_



Exploration Copy

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5675-2703

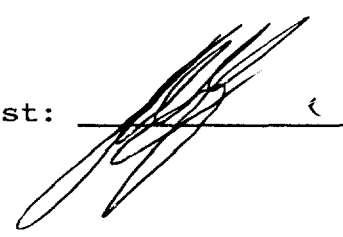
Hole Number: MK-97-27  
 Date Assayed: 04/14/97  
 Week/Tray: 97APR14/AF005

*Entered*

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	AX37097		0.002	70
2	AX37094		0.001	35
3	AX37092		0.022	755
4	AX37073		0.001	35
5	AX37072		0.001	35
-----				
6	AX37071		0.001	35
7	AX37070		0.001	35
8	AX37069		0.001	35
9	AX37068		0.001	35
10	AX37066		0.007	240
-----				
11	AX37065		0.001	35
12	AX37056		0.002	70
13	AX37052		0.001	35
14	AX37047		0.001	35
15	AX37046		0.001	35
-----				
16	AX37040		0.012	410
17	AX37039		0.001	35
18	BLANK	Blank	0.001	35
19	CONTROL	Control	0.102	3500
20				
21				
22				
23				
24				

Geologist: R. BARBER

Chief Chemist: \_\_\_\_\_



Exploration Copy

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

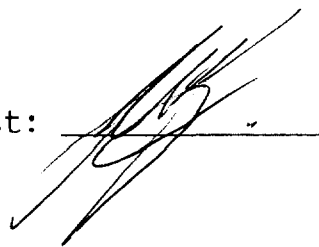
Exploration 5675-2703

*Entered.*

Hole Number: MK-97-27  
 Date Assayed: 04/15/97  
 Week/Tray: 97APR14/AF006

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	AX37100		0.001	35
2	AX37099		0.001	35
3	AX37093		0.001	35
4	AX37095		0.002	70
5	AX37096		0.010	345
-----				
6	AX37054		0.001	35
7	AX37126		0.006	205
8	AX37125		0.001	35
9	AX37123		0.001	35
10	AX37122		0.001	35
-----				
11	AX37121		0.001	35
12	AX37118		0.001	35
13	AX37117		0.006	205
14	AX37116		0.001	35
15	AX37112		0.004	135
-----				
16	AX37111		0.002	70
17	AX37110		0.004	135
18	BLANK	Blank	0.001	35
19	CONTROL	Control	0.098	3360
20				
21				
22				
23				
24				

Geologist: R. BARBER

Chief Chemist: 

Exploration Copy

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS


Exploration 5675-2703

Hole Number: MK-97-27  
 Date Assayed: 04/29/97  
 Week/Tray: 97APR21/AF014

*Checks*

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	AX37075	Re-Assay	0.001	35
2	AX37076	Re-Assay	0.001	35
3	AX37077	Re-Assay	0.001	35
4	AX37078	Re-Assay	0.001	35
5	AX37079	Re-Assay	0.001	35
-----				
6	AX37080	Re-Assay	0.006	205
7	AX37081	Re-Assay	0.003	105
8	AX37082	Re-Assay	0.007	240
9	AX37083	Re-Assay	0.003	105
10	AX37084	Re-Assay	0.004	135
-----				
11	AX37085	Re-Assay	0.001	35
12	AX37086	Re-Assay	0.006	205
13	AX37087	Re-Assay	0.001	35
14	AX37088	Re-Assay	0.001	35
15	AX37092	Re-Assay	0.001	35
-----				
16	AX37095	Re-Assay	0.001	35
17	AX37096	Re-Assay	0.003	105
18	BLANK	Blank	0.001	35
19	CONTROL	Control	0.108	3700
20				
21				
22				
23				
24				

Geologist: R. BARBER

Chief Chemist: 

ROYAL OAK ANALYTICAL LABORATORY

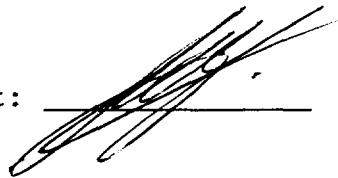
CERTIFICATE OF ANALYSIS

Exploration 5675-2703

Hole Number: MK-97-27  
 Date Assayed: 04/29/97  
 Week/Tray: 97APR21/AF008

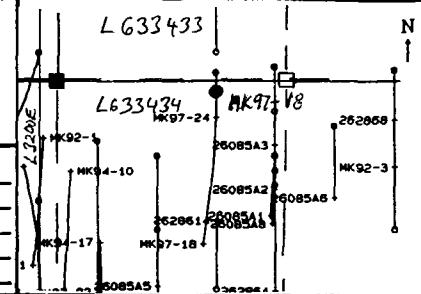
	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	AX37097	Re-Assay	0.001	35
2	AX37098	Re-Assay	0.001	35
3	AX37103	Re-Assay	0.001	35
4	AX37104	Re-Assay	0.008	275
5	AX37105	Re-Assay	0.001	35
-----				
6	AX37106	Re-Assay	0.001	35
7	AX37107	Re-Assay	0.001	35
8	AX37108	Re-Assay	0.003	105
9	AX37109	Re-Assay	0.001	35
10	AX37110	Re-Assay	0.001	35
-----				
11	AX37111	Re-Assay	0.001	35
12	AX37112	Re-Assay	0.018	615
13	AX37113	Re-Assay	0.005	170
14	AX37114	Re-Assay	0.006	205
15	AX37115	Re-Assay	0.001	35
-----				
16	AX37116	Re-Assay	0.012	410
17	AX37117	Re-Assay	0.002	70
18	AX37126	Re-Assay	0.001	35
19	BLANK	Blank	0.001	35
20	CONTROL	Control	0.102	3500
-----				
21				
22				
23				
24				

Geologist: R. BARBER

Chief Chemist: 

Exploration Copy

HOLE #:                      NORTHING: 2015 EASTING: 350 ELVN: 5050 LENGTH: 389  
 Surveyed  
 TWP: Noseworthy Drilled by: Bradley Logged by: R. Barber Start: 25/02/97  
 Claim: L633434 Core Stored: Timmins Casing/Size: 103m Bward NW Finish: 01/03/97

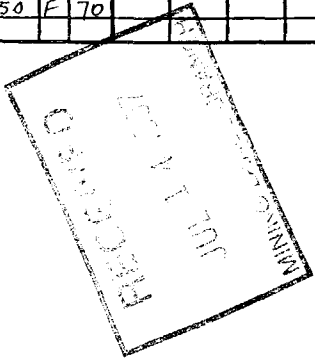


Dist	Azim	Dip	Dist	Azim	Dip	Dist	Azim	Dip	Dist	Azim	Dip
0	180	-50	224	186.5	-47						
104	182	-49.5	284	188	-45.5						
150	183.5	-50	344	188	-44						
164	185	-49.5	308	189	-44.5						

Purpose/Results: Test down-plunge extension of mineralization in 86 AS  
-Weak qtz-asp mineralization at 360.2-361.6 14.8 samples.

Assayed 0.391 g/t Au over 1.4m

Dist	Rock Description					Structure	Alteration Parameters (%)													Wth	Comments					
	Com	Grs	Text	Co	Alt		Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt	RQ	Sampl#								
0																								0-103 Casing		
103						CAS																		103-182-5 Carbonaceous Argillite		
																								Aphanitic - Fg dk gy, strongly fol'd. As unit in 197-24, loc weathered & pitted qtz stars. Min-1% diss of fract filling pyx.		
106.4	B	VF	RUB	GY		Sagr	F50																	grab		
107.4	SS		SHD																							
108.1	SS		SHD				F20			40															sheared qtz star zone, 1% by diss pyx.	
108.8	B		RUB																							
115.6	B		"	BK		F2																				
116.3	"		"	"																						
116.8	S	VF	SHD	GY		Sagr	F20			15															Qtz fgr zone w/ dk py mod fol'd in 2 directions	
117.8	F						F50			F70																
118.7																										











Dist	Rock Description						Structure		Alteration Parameters (%)															RQ	Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Na mel	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt							
																											167.8-174.7 WK qtz-cal stgr zone. qtz-cal threads & stgrs // folia @ 45-0° Folia direction changes rapidly, esp near end of sect Microscopic creases of folial stgrs. Axial plane is second folia @ 75-80° TCA. Fold nose area, low M creases.
168.9	S	VE	BED	GY	-	S <sub>ans</sub>				2	1			.1								100		AX35969			
169.5			BED							2	10			.5										970		px, sph // folia near stgrs.	
170.5			SHD							1	1			.1										971			
171.6										1	5			.1										972			
173									F 45	F 60	5	5		.1										973			
174										2	1			.1										974			
174.7									F 10		10	5		.5										975		strongly creas'd stgrs in fold nose area.	
178.7										5	5			.1										976			
182.6						S <sub>agr</sub>				3	2			.5										977			
193	M		BED		SER1	S <sub>a</sub>	B 40			1	1			.1										978		175.7-182.5 wk'y graphitic arg./siltstone.	
194.1	"		SHD				F 10			2				.1										979			
																											182.5-198.1 Sericitized Argillite. Fg. lt grey, low st gr series streaks. Argillite/siltstone, bedded & wky - mod. folia. Tr disc px 1-2 to qtz - ank threads throughout. Strongly sheared after 190.7, folia variable.
194.6	M	F	SHD	BY	ALB	S <sub>a</sub>	F 0			5		10		.5										980		194.1-196.2 Patchy fg, wky alt <sub>g</sub> → alteration? alk in threads & stgrs. Mn. fg drusy	
195.3					SER2							5		.1										981			
196.2					ALB					10		5		.1										982			
197.3					SER2					1		10		.1										983			
198.1					1					2		2		.1										984			
199.6					ANK	S <sub>agr</sub>				2		5	10	.5			.1							985		Br'd qtz-cal stgr zone, to sph.	



Dist	Rock Description					Structure				Alteration Parameters (%)											RQ	Sampl #	Wth	Comments			
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank		%	Py	Po	Cpy	Sph	Asp					Mt		
200.6	M	F	SHD	GY	←	5a,gr									.5									100	AX35986		198.1-228.75 Carbonaceous Argillite
																											Dark w. lighter silty bands strongly fol'd throughout. Min- 1/2 gtz - cal threads & ctgrs // folia Min - 1/2 py.
206.6	M	VE	SHD	GY	SE01	5a									.1									101	987		
207.6	S					CCL									.1											988	207.6-224.1 Mineralized Zone
208.6															.5											989	strong gtz veining roughly //
209.5		FM							F45	15		5			.5											990	to folia as well as gtz - ank
210		C	BRX	WH		RV				25		5			.1	.1										991	stgrs // folia. Min - 1/2 to disc
211.1		FM	BRX	GY		5a,gr				70		5			.1	.1										992	py, tr - up to 5% vly - fg diss po
212.2		4	SHD							45		5			.5	.4										993	// folia. strongly ch'd, weakly
213.6	M	F								20		5			.5	.2										994	seam'd & loc'y graphitic throughout
214.4										1		1			.5	.1										995	strong gtz - brx vein @ 209.5-210
214.7									F40	1		1			.2	.5										996	
215.75										2	10				.1	.1										997	
216.1				WH		RV			V50	90		2			.1	.1										998	5% inclusions in msu wh. gr. py, po
217.6			SHD	GY		5a,gr				30	20	2			.1	.2										999	at edges of inclusions & vadrice
218.5										10	20	2			.1	.1		.1								AX36000	vein // folia.
219.6						SE0				15	1	5			.1	.1										AX37501	
220.6						CCL				1	1	.5			.5	.2										502	
221.3									F50	5	5	.5			.5	.1										503	
221.9										30		5			.1	.1										504	
223										5	5	2			.5	.1										505	
223.7										3	10	1			.1	.1										506	
224.1										20		40			.2	.1										507	QAV stgr zone w. "spongy" py in
224.8										1	5	3			.1	.1										508	vein
225.1										30	5	2			.5	.5										509	
226										1	2	2			.1											510	224.3-224.4 M. cen'ns in folia
226.8										10	20	2			.1											511	axial plan @ 5' TCA piece extracted
227.3										30	5	20			.1											512	
228.2										10	2	10			.5											513	224.9-225.05 QV w. 5' wellrock
228.75										15	2	5			.5											514	inclusions, diss py, po, gy - wh gtz







Dist	Rock Description						Structure				Alteration Parameters (%)											Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt	RQ			
249.8	M	F	BRX	GN	CHL3	IFchl					35		1								5	AX97534		3 bull gtz brx vlets w. wh ank f
251	"	"	BED	TN	CHL3	5+								.5	.1						10	535		tan dol (1%)
252.5				GN		IFchl								.1	.1							536		
254						"				2				.1	.1							537		
255.05			BRX	WH		QU	V	40		70		2		.1								538		Bull gtz - brx vein w. wh ank f
255.55			SHD	GN		IFchl				1				.5								539		1% tan dol, irreg contacts.
257			BED	GP	COL1	Sas					1			.1								540		
263.54			"	"	"	"					1			.1								541		255.55-263.54 Argillite/Siltstone
281	C		CLAS	GP	COL2	5c	F	40		.1	1			.5	.1							542		
304.5	"	"	"	"	"	"				.1	1			.1								543		Apomorphic - fg, dk gy, bedding // fol'd? 2-5% wh carb chert, diss throughout. wispy cal stars throughout Rare fg diss. Appears coarsest at top of sect, but may be more intense ank alt'n.
																								5m gauge @ 20' w. 1 ft pk dol @ 262-3.
																								263.54-354.4 Conglomerate
																								Polyvaritic, heterolithic. Fg med - dk gy gwt matrix w. rare 0.5mm gtz eyes. Clasts 1mm - 10cm long. Wky - mod fol'd & clasts stratified // fol'd Flattened $\approx$ 5:1. Most common clasts are felsic volc, argillite(?) chert & 1-2% sulphidochert w/ layered pylope. 1% subrounded gy clasts. To 264.9 unit is mainly gwt w. 5% clasts. Also loc quartz clasts loc w/ gtz - cal stars. Matrix supported 268.8 cherty clast w - wk fuchsite 1% brachiopod clasts





Dist	Rock Description						Structure			Alteration Parameters (%)											Wth	Comments			
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt			RQ	Sampl#	
305.5	M	C	CLAS	GP	col	Sc									-1								AX 37544	209.4 - 271 Argillite/Gwk bed	
305.8															-1	2							545	within conglomerate sharp contact	
306.8															-1								546	11.6 m @ 40° Argillite on	
329						Sc									-1								547	uphole, side of unit in top	
338.8						Sc									-1								548	uphole?	
339.8															-1								549		
340.4															5	2							550	- conglomerate more sheared,	
341.4															-1								551	strongly fold, past 290.	
353.4			SHD												-1								552		
354.4															-1								553	305.6, massive po. str. v. calcite	
																							To 317	From approximately this point on, 10-15% argillite clasts/beds are incorporated into the conglomerate. In places, the conglomerate superficially resembles argillite/siltstone, but there are always some exotic clasts. Clasts = 5% of unit, some clasts may be very stretched & so resemble beds.	
																									324.9 Ph. dol. str. @ 20° v. N along edges. Str 5-6 mm wide.
																								From 345 - 354.4 Highly sheared conglomerate as 305.6 - 317 gradation contact. 25mm etc eyes becoming more abundant (to 5%) downhole.	
																									337.9 cal forms & structure at edge of a clast.







Dist	Rock Description						Structure				Alteration Parameters (%)										Wth	Comments			
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank		%	Py	Po	Cpy	Sph	Asp			Mt	RQ	Sampl#
																									362.3-363 Seric'd Argillite
																									Strongly fol'd & crend. in fg diss. pr. Mod gy w. buff ribbon
																									363-365.6 Sheared Conglomerate
																									Fg. mod gy w. buff streaks (clasts). Clasts are extremely stretched but can be seen to terminate loc'y. Loc 5-10mm qtz clasts which are relatively undeformed. Strongly seric'd ank'd. Argillite band @ 364.5- 364.7. 1-2% fine qtz eyes throughout.
362.3						LC																			
363	M	VF	SHD	GY	SER3	Sa																		AX43375	
363.5		F				Ser, sch																			376
364.7																									377
365.6										15															378
366.5		VF				SCL3 Sa																			379
368						" "																			380
369.5																									381
371																									382
371.76																									383
373		FC				SER3 Ser, sch																			384
374																									385
375.5																									386
376.6																									387
																									371.76-376.6 Sheared Conglomerate
																									As 363-365.6 but w. more prominent qtz clasts

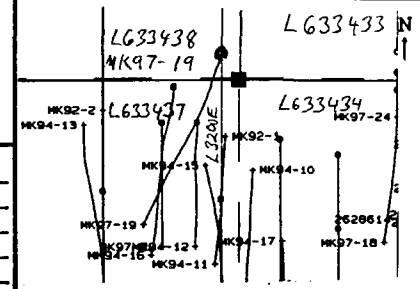


Dist	Rock Description						Structure		Alteration Parameters (%)													RQ	Sampl#	Wth	Comments			
	Com	GrS	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank		%	Py	Po	Cpy	Sph	Asp	Mt							
378	S	F	FOL	GV	CHL2	Sa																			AX 43388	376.6 - 379	Argillite	
379	M		"		"	"						2													389			
380.5			SHD		CHL3	Sa, IF																			390		Lt - dk gy, fg mod sericid to	
381.3			"		"	"						40													391		strongly chl'd. 2% fg ptz eyes	
382.5		FM	FOL		SER3	Sg, g																			392		loc'y.	
384						"																			393			
385.4						"																			394		377-381.3 Argillite / chloritic IF	
387		F	SHD		CHL3	Sa, IF					5		2												395			
388		FM	FOL		SER3	Sa, g																			396		Mixed black argillite + inter bedded gy chert + min buff cherty tan + gn chl beds. No magnetite beds. Gy ptz, stgr zone from 380.5-381.3. Fg stgr py.	
																												381.3-385.4 Qtz Eye Greywacke
																												Lt fg, strongly sericid, strongly chl'd. 2-5% 5-6mm qtz eyes. Min sg drss py.
																												385.4-387 Argillite / chloritic IF
																												A. 379-381.3
																												387-387.9 Argillite / Greywacke
																												Mixed qtz eye greywacke as 381.3-385.4 and dk gy argillite w. 5% bright apple gn fuchsite bands.
																												388 EOH
																												103 m BW casing left. Test @ EOH is the only one with a reliable azimuth. Azimuth inferred on other tests.





HOLE #: ~~19508~~ NORTHING: 19508 EASTING: 3200E ELVN: 3050 LENGTH: 957  
 TWP: NOSE WORTHY Drilled by: BRADLEY Logged by: ERIC GENEAU Start: 11 FEB 97  
 Claim: L633437, L633438 Core Stored: Timmins Casing/Size: 47m B.V. NW Finish: 19 FEB 97



Dist	Azim	Dip	Dist	Azim	Dip	Dist	Azim	Dip	Dist	Azim	Dip
0	177°	-57°	267	209	-57	506	206	-51			
47	203°	-55°				551	206	-47			
107	196°	-56°	387	209	-53						
167	203°	-56°	446	206	-49						

Purpose/Results: To test open down dip extension of 3200 Vein. Mineralized Zone at 450.7-479.4 280 samples.

Rock Description Structure Alteration Parameters (\*) 3200 Vein assayed 2.013g/t Au over 25.7m, including 5.402/2 and 3.298/6-4

Dist	Rock Description						Structure				Alteration Parameters										RQ	Sampl#	Wth (mm)	Comments				
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt								
46.3						CAS																						OVER BURDEN
																												STRONGLY FOLDED GREY TO BLACK ARGILLITE (46.0 TO 219.8) - GREY TO DARK GRAY/BLACK COCOR - SILTSTONE LOCALLY INTERBEDDED WITH ARGILLITE - CHL I SER FOUND ALONG SCHISTOSITY PLANES - WHITE TO GREYISH WHITE QTZ/ ANK VEINS PRESENT - PY: E UHEDRAL, CUBIC <1mm TO 7-8mm SIDE SIZE FOUND IN QTZ VEIN OR FOLLOWING SCHISTOSITY - STRUCTURE: SCHISTOSITY AND QTZ VEINS SHOWS VARIABLE DIRECTIONS. ANGLE TO LCA MINERALIZED WHEN WELL DEFINED
47.5	M	UFF	COT	GY	ANK	59.5					30	-	1		1								100	35001	1.2		QTZ VEINLETS PRESENT ALONG INTERVAL	



Dist(m)	Rock Description						Structure				Alteration Parameters (%)											Comments			
	Com	GrS	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt	RQ		Sampl#	Wth (m)	
49.0	M	UFG	COT	GY	ANK1	5a.s	D	45			30	-	1		1							100	35002	1.5	QTZ VEINLETS ALONG INTERVAL
50.5							U	10			20	-	1		0.5							90	35003	1.5	BROKEN CORE @ 50.35 TO 50.50 WHITE MICA LOCALLY NOTED WITH QTZ VEIN. 8 CM WIDE QTZ VEIN NOTED @ 50.27 TO 50.35
53.0											25	-	1		0.5							100	35004	1.5	QTZ VEINS @ 50.5, 8cm WIDE, AND 50.70, 10cm WIDE.
53.5							U	35			15	-	1		1							100	35005	1.5	QTZ VEIN WITH WHITE MICA 52.95, 10cm WIDE SILTSTONE AND @ 52.30 TO 52.45
55.0							B	20	U	25	10	-	1		0.5							100	35006	1.5	SILTSTONE @ 54.05 TO 54.55
56.5											15	-	1		0.5							100	35007	1.5	QTZ VEINS @ 55.40, 8mm WIDE AND @ 55.90, 9mm WIDE. SILTSTONE @ 55.50 TO 55.80.
58.0											10	-	1		0.5							100	35008	1.5	SILTSTONE @ 57.30 TO 58.03
59.5							B	50			10	-	1		0.5							100	35009	1.5	SILTSTONE @ 58.30 TO 58.75
61.0											20	-	1		0.5							100	35010	1.5	QTZ + WHITE MICA VEINLETS @ 59.70 TO 59.85
62.5											20	-	1		1							100	35011	1.5	WHITE MICA IN QTZ VEINS NOTED ALONG THE INTERVAL
64.0							B	40			15	-	1		0.5							100	35012	1.5	INTERVAL COMPOSED MAINLY OF SILTSTONE



Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt					
65.5	M	UFG	GOT	GY	ANK1	S9.5					1	-	1		0.1						100	35013	1.5	SILTSTONE RICH SECTION	
67.0							N	40			1	-	1		0.5						100	35014	1.5	SILTSTONE @ 65.5 TO 65.9	
68.5										40	-	1		1							100	35015	1.5	QTZ VEINS @ 67.0 TO 67.57 AWA @ 68.16 TO 68.22	
70.0										10	-	1		0.5							90	35016	1.5	BROKEN CORE @ 69.65 TO 69.85 QTZ VEIN @ 69.30 TO 69.30	
71.5										15	-	1		1							100	35017	1.5	QTZ VEINETS AND SPOTS FOUND BETWEEN @ 70.5 TO 71.2	
73.0										3	-	1		0.1							100	35018	1.5	MINOR QTZ VEINETS	
74.5										7	-	1		0.5							100	35019	1.5	QTZ VEIN @ 74.07 TO 74.20 WITH CONTORTED FORM.	
76.0							N	10		15	-	1		0.1							100	35020	1.5	QTZ VEIN WITH WHITE MICA @ 74.90 TO 75.05 PALE GRAY ARGILLITE @ 75.2 TO 76.4	
77.5										2	-	1		0.5							100	35021	1.5	BLACK ARG, TRACE OF GRAP	
79.2	S	UFG	COT	BK	-	S9.9N	B	70		1	-	-		1							15	35022	1.7	BLACK GRAPHITIC ARGILLITE, BLOCKY BREAK ON SHEAR PLANES, BY FOLLOW SHEAR PLANES, MINOR QTZ VEINS 10% PY @ 78.9 TO 79.1	
80.0						LC																		0.8	
80.9	B	UFG	COT	PH	-	S9.9N				1	-	-		1							10	35023	0.9	BLACK GRAPHITIC ARG, BLOCKY BREAK ON SHEAR PLANES, 30-40% PY @ 80.5 TO 80.7	



Dist	Rock Description						Structure			Alteration Parameters (%)													RQ	Sampl #	Wth	Comments						
	Com	GrS	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt												
81.3						LC																										
83	S	VFG	COT	BK	-	sa,gr					25	-	-		3										70	35024	1.7				QTZ VEIN C 81.5 TO 81.6 AND C 82.7 TO 82.9. 20-25% PY C 82.20 TO 82.28.	
84.1	M	VFG	COT	GY	ANK1	sa					10	-	1		3									100	35025	1.1				GRAY ARGILLITE		
84.9											2	-	0.5		40									100	35026	0.8				SEMI-MASSIVE, FINE GRAINED PY		
86.5	S	VFG	COT	BK	-	sa,gr					5	-	-		0.5									30	35027	1.6				BLACK GRAPH ARG. BREAKS ROUGHLY ON SHEAR PLANES		
88.0	M										5	-	-		0.5									90	35028	1.5				LESS GRAPHITIC ON THE LAST 50 CM OF THE INTERVAL		
89.5	M	VFG	COT	GY	ANK1	sa					10	-	1		1									95	35029	1.5				QTZ VEIN C 89.15 TO 89.25. GREY TO BLACK ARG. NO GRAPH		
91.0											5	-	1		1									95	35030	1.5				GREY TO BLACK ARG. NO GRAPH		
91.35						LC																									0.35	
92.5	M	VFG	COT	GY	ANK1	sa,s					10	-	1		0.5									100	35031	1.15				DARK GREY TO BLACK ARG		
94.0											10	-	0.5		0.5									100	35032	1.5				GREY TO DARK GREY ARG. QTZ VEIN C 93.15 TO 93.23		
95.5											3	-	0.5		0.1									100	35033	1.5				MED. GREY SILTSTONE LOCALLY WATER-WEADED WITH ARG.		
97.0						SELI					2	-	0.1		0.5									100	35034	1.5				LIGHT TO MEDIUM GRAY FINE DEN-DRITIC CHL. VEINLETS NOTED. QTZ VEIN WITH "BOUDIN" STRUCTURE NOTED @ 96.0, 25° TO LER.		





Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt					
98.5	M	VFG	COT	GY	SER2	5a, 5					3	-	0.1									100	35035	1.5	LGTH TO MED GREY, SERICITIC + CARBONATED ALT
100											10	-	0.1									100	35036	1.5	QTZ VEIN @ 98.95 TO 99.10
101.5											45	-	0.1									100	35037	1.5	QTZ VEIN @ 100.20 TO 100.65 AND @ 100.85 TO 101.0
103.0											10	-	0.1		0.5							100	35038	1.5	PY + CHL DENDRITIC VEINLETS NOTED @ 102.70 TO 103.0 QTZ VEIN @ 102.10 TO 105.15
104.5											10	-	0.1		0.5							100	35039	1.5	LIGHT TO MEDIUM GREENISH GREY, SER. - MINOR CHL ALT. FINE DENDRITIC PY + CHL VEINLETS NOTED ALONG INTERVAL
105.85											15	-	0.1		0.5							100	35040	1.35	MEDIUM TO DARK GRAY ARGILLITE QTZ VEIN @ 105.06 TO 105.16
107.25	B	VFG	COT	GY	-	QU					80	-	-	3	0.1		0.1					60	35041	1.40	QTZ/ANK VEINS INTERBEDDED WITH MEDIUM GRAY ARGILLITE CHL. LOCALLY ABUNDANT ON FRACTURE PLANES. WHITE MICA AND Po + Sph (RARE)
108.50	M	VFG	BED	GG	SER2	5a	V	30			35	-	0.1		2							100	35042	1.25	MEDIUM GREYISH GREEN, HIGHLY SER + CHL ALTERATION, QTZ VEIN @ 107.70 TO 107.90
110.0											40	-	0.5		3							100	35043	1.5	MED GRAYISH GREEN FROM 108.5 TO 109.53. FROM 109.53 TO 110.0 BLACK ARG. QTZ VEINS @ 107.3 TO 108.0 AND @ 109.53 TO 110.0
111.5	M	VFG	COT	DK	ANK	5a					5	-	0.5		0							90	35044	1.5	BLACK ARGILLITE







Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt					
124.7	M	VFG	COT	BE	-	Sa					5	-	-		2							90	35054	0.7	BLACK ARGILLITE, PY INTER-BEDDING.
125.0						LC																		0.3	
126.5	M	VFG	COT	GY	SER3	Sa				3	-	0.1		0.5								90	35055	1.5	WHITISH TO MEDIUM GRAY ARGILLITE/SILTSTONE, HIGH SER + ANK ALT. CLAY/C 125.45 TO 125.50.
128.0							N	25		2	-	0.1		0.1								100	35056	1.5	MEDIUM GRAY ARGILLITE
129.5										1	-	0.1		0.1								100	35057	1.5	SAME AS BEFORE
131.0										1	-	0.1		0.1								80	35058	1.5	MEDIUM GRAY ARGILLITE BLOCKY BROKEN @ 130.7 TO 131.
132.1	B									1	-	0.1		0.5								40	35059	1.1	HIGHLY BROKEN @ 131.90 TO 132.1
133.2						LC																		1.1	
141.8	M	VFG	BED	GY	SER1	Sa	N	25		0.5	-	0.1		0.1							100	35060	8.6	HOMOGENEOUS GRAY ARGILLITE GRAB SAMPLE.	
143.0	M	VFG	BED	GY	CHL	Sa				1	-	0.1									90	35061	1.2	SECTION WITH CHL + SER1 ALTERATION	
148.2	M	VFG	BED	GY	SER1	Sa				1	-	0.1		0.1							100	35062	5.2	HOMOGENEOUS GRAY ARGILLITE GRAB SAMPLE.	
149.5	M	VFG	BED	GY	SER1	Sa				2	-	0.1		0.5							100	35063	1.3	MEDIUM TO DARK GRAY ARGILLITE WITH CHL + SER1 ALTERATION	



Dist	Rock Description					Structure				Alteration Parameters (%)														RQ	Sampl#	Wth	Comments	
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt								
151.0	M	VFG	BED	GY	SER	5a	V	20			3	-	0.1		0.5									100	35064	1.5	DARK GRAY ARG. CHL + SER ALT.	
152.5											2	-	0.1		0.1										100	35065	1.5	SAME AS BEFORE
154.0											7	-	0.1		0.5										100	35066	1.5	QZ VEIN @ 153.92 TO 154.
155.5											8	-	0.1		0.5										100	35067	1.5	DARK GRAY ARG. QZ VEIN @ 154.23 TO 154.35, CHL + SER ALT
157.0	S	VFG	BED	GY	SER	5a					3	-	0.1		0.5									60	35068	1.5	MORE CHLORITIC SECTION (CHL 2)	
158.5	M	VFG	BED	GY	SER	5a					2	-	0.1		0.1										100	35069	1.5	CHLORITIC (CHL 2)
160.0							B	40			40	-	0.1		1										100	35070	1.5	HIGHLY CHLORITIC QZ VEINING LOW PY CONTENT.
161.5											40	-	0.1		1										100	35071	1.5	HIGHLY CHL QZ VEIN @ 160.0 TO 160.60 FROM 160.60 TO 161.50 DARK GRAY, CHLORITIC ARGILLITE
163.0							B	40			3	-	0.1		0.5										100	35072	1.5	CHLORITIC, DARK GRAY ARGILLITE
164.5							U	30			7	-	0.1		0.5										90	35073	1.5	QZ VEIN WITH PY @ 164.23 TO 164.99
165.75											5	-	0.1		0.1										100	35074	1.25	SMALL QZ VEIN @ 165.60
168.40											2	-	0.1		0.1										100	35075	2.65	MEDIUM GRAY ARGILLITE, GRAB SAMPLE MINOR SER ALT, NO CHL ALT





Dist	Rock Description						Structure				Alteration Parameters (%)										RO	Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt				
169.1	M	VFG	COT	GY	ANK	5a					20	-	1		1						100	35076	0.7	DARK GRAY ARGILLITE, QTZ + ANK + PY VEINS. MINOR SER. ALT. NO. CHLORITE
171.3	M	VFG	BEU	GY	ANK	5a					3	-	1		0.1						95	35077	2.2	DARK GRAY ARGILLITE. MINOR QTZ AND PY. GRAB
172.55											5	-	1		0.5						100	35078	1.25	DARK GRAY TO LOCALLY BLACK ARGILLITE. QTZ + ANK + PY VEINS NOTED
177.3											3	-	1		0.5						100	35079	4.75	MEDIUM TO DARK GRAY ARGILLITE. GRAB SAMPLE
177.8											20	-	2		0.5						60	35080	0.5	BLOSSY/BROKEN QTZ VEIN @ 177.45 TO 177.62.
184.5											1	-	0.5		0.1						100	35081	6.7	GRAB SAMPLE
185.6	M	VFG	COT	GY	ANK	5a					1	-	-		2						100	35082	1.1	MEDIUM TO DARK GREY ARGILLITE
187.05											1	-	-		1						100	35083	1.45	SAME AS 185.6
188.45	M	VFG	COT	BE	-	5a					3	-	-		3				0.1		95	35084	1.40	BLACK ARGILLITE, GRAPHITIC QTZ VEIN + PY + ASP (TRAC)
190.0	M	VFG	COT	GY	CHL	5a					5	-	-		0.5						100	35085	1.15	LIGHT TO MED GRAY ARGILLITE. MODERATE CHL + SERPENTINIC ALTERATION. DENDRITIC, FINE PL + CHL NOTED
191.5											2	-	-		0.5						100	35086	1.15	SAME AS 190.0
193.0											2	-	-		1						100	35087	1.5	SAME AS 190.0
194.5											2	-	-		1						100	35088	1.5	SAME AS 190.0



Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Namel	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt					
196.0	M	VFG	BEI	GY	SER1	Sa	V	45			1	-	0.1		0.5							100	35089	1.5	MEDIUM GRAY ARGILLITE, MINOR SER+CHL+ANF ALT
197.5							V	70			1	-	0.1		0.5							100	35090	1.5	SAME AS 196.0
199.0							V	35			1	-	0.1		0.5							100	35091	1.5	SAME AS 196.0
200.8							V	25			1	-	0.1		1							100	35092	1.8	SAME AS 196.0
202.0	M	VFG	COT	OK	-	Sa,gr					5	-	-		2							100	35093	1.2	BLACK MINOR GRAPHITIC ARGILLITE MINOR CHLORITIC ALTERATION
203.5											10	-	-		4				0.1			100	35094	1.5	QTZ + PY VEIN @ 203.35 TO 203.50. PY VEIN (ASPY TRACE) @ 203.11 TO 203.15
205.0											5	-	-		2							90	35095	1.5	SAME AS 202.0
206.5	S										3	-	-		1							70	35096	1.5	SAME AS 202.0
208.15	M										5	-	-		1							90	35097	1.65	DARK GREY TO BLACK ARGILLITE MINOR GRAPHITIC AND CHLORITIC
209.5	M	VFG	HOM	WA	-	QU					98	-	-		1				0.1			100	35098	1.35	WHITE TO GREYISH WHITE QZ VEIN GRAPHITIC + ASPY LOCALLY FOUND IN NARROW BELTS
210.8											80	-	-		1				0.1			100	35099	1.30	SAME AS 209.5 INTERBEDDED WITH BLACK GRAPHITIC ARGILLITE @ 210.30 TO 210.60
211.6	M	VFG	CST	BF	SER1	Sa					5	-	0.1		2							100	35100	1.5	BLACK GRAPHITIC ARGILLITE WITH A PY VEIN LST 2MM WIDE @ 211.45, 50% LCA
212.20	M	VFG	HOM	WH	-	QU					95	-	-		2				0.1			100	35101	0.6	SAME AS 209.5



Dist	Rock Description						Structure				Alteration Parameters (%)														Comments
	Com	GrS	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt	RO	Sampl#	Wth		
212.5						LC																			
214.0	M	VFQ	CoT	BK	-	Sagn				2	-	-		0.5								90	35102	1.5	BLACK GRAPHITIC ARGILLITE RAVE CHLORITE ON SHEAR PLANES
215.5										2	-	-		0.5								75	35103	1.5	SAME AS 214.0
217.0										2	-	-		1								80	35104	1.5	SAME AS 214.0, PY VEINLET LAW WIDE C 216.97.
218.5										1	-	-		0.5								100	35105	1.5	SAME AS 214.0
219.8										1	-	-		0.5								100	35106	1.5	SAME AS 214.0.
																									CHLORITIC IRON FORMATION (219.8 TO 251.5) - MIX OF CHLORITIC SEDIMENTARY TUFF AND MAGNETITE BEDS. - THE CHLORITIC SEDIMENTARY ARGILLITE/SILTSTONE POSSIBLY LOCALLY MANY ANKERITE PORPHYRY BLASTS. THE SEDS ARE THE PREDOMINANT PART OF THIS UNIT. - THE TUFF IS BUFF TO LOCALLY GREYISH. - QTZ VEINS ARE LOCALLY PRESENT - INDIVIDUAL AVE THICKNESSES RANGE FROM 1 CM TO 30 CM. - THE ROCK IS GENERALLY MASSIVE, WITH LOCAL BREAKS - MAGNETITE BEDS ARE GENERALLY INTERBEDDED WITH TUFF BEDS.



Dist	Rock Description						Structure			Alteration Parameters (%)											RQ	Sampl #	Wth	Comments	
	Com	Grs	Text	Co	Alt	NaMel	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt					
221.0	M	JFG	BED	GY	ANK	IFCHL	B	30			15	-	1		1							100	35107	1.2	QTZ + PY + CHL VEINS @ 219.8 TO 220.0 AND @ 220.35 TO 220.10
222.5							B	25			5	-	1		0.5							100	35108	1.5	QTZ + PY VEIN @ 221.95 TO 222.05
224.0							N	30			20	-	1		0.5							100	35109	1.5	QTZ + PY + CHL VEINS @ 222.5 TO 222.75 AND @ 223.5 TO 223.6
225.5							N	20			20	-	1		0.5							100	35110	1.5	QTZ + PY + CHL VEINS @ 224.0 TO 224.10, @ 224.42 TO 224.5, @ 224.80 TO 224.90
227.0							B	15			10	-	1		0.5							100	35111	1.5	QTZ + CHL VEIN @ 226.4 TO 226.5
237.5							B	30			2	-	1		0.1							100	35112	1.5	GRAB SAMPLE
239.0							B	25			30	-	1		0.1							100	35113	1.5	QTZ + CHL VEIN @ 237.7 TO 238.1, @ 238.57 TO 238.67
240.5											2	-	1		0.5							100	35114	1.5	CHLORITIC SEDIMENT + BUFF
242.0							B	20			15	-	1		0.1							100	35115	1.5	QTZ + CHL VEINS @ 241.5 TO 241.90, @ 241.4 TO 241.5
249.3							B	27			1	-	1		0.1							100	35116	7.3	GRAB SAMPLE
250.3											5	-	1		0.1							100	35117	1.7	QTZ + CHL VEINS IN THE INTERVAL
251.5											8	-	1		0.1							100	35118	1.2	QTZ + CHL VEINS





Dist	Rock Description						Structure				Alteration Parameters (%)											Wth	Comments			
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank		%	Py	Po	Cpy	Sph	Asp	Mt			RQ	Sampl#	
																										FOLDED GREY TO BLACK ARGILLITE (251.5 TO 265.3) - GRAY, DARK GREY TO BLACK COLOR - LOCALLY INTERBEDDED WITH SILTSTONE - CHL + SER FOUND ALONG SCHISTOSITY PLACES - WHITE TO GREYISH WHITE QZ / ANK PY VEINS PRESENT - STRUCTURE: SCHISTOSITY (B500, W6) AND QZ VEIN SHOWS VARIABLE DIRECTION, TOWNS, AWKLE TO GRA INDICATED WHEN WELL DEFINED - FINE ANKERITE PSEPHHO BLAST FOUND LOCALLY - LOCALLY MINOR TO HIGHLY GRAPHITIC
253.0	M	NEG	COT	GY	CHL	Sa gn					8	-	0.1		1							100	3519	1.5	DARK GRAY TO BLACK MINOR GRAPHITIC ARGILLITE MODERATE CHL ALT (CHL 2)	
254.5											2	-	0.1		0.5							100	3520	1.5	SAME AS 253.0	
256.0									B 30		1	-	0.1		0.5							100	3521	1.5	SAME AS 253.0	
257.5					BK						2	-			1							100	3522	1.5	BLACK GRAPHITIC ARGILLITE	
259.0									B 20		1	-			0.5							100	3523	1.5	SAME AS 257.5	



Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl #	Wth	Comments		
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt							
260.5	M	VFG	COT	BK	-	Sagn	N	35			5	-	-		0.1									100	35124	1.5	BLACK GRAPHITIC ARGILLITE QTZ VEIN, 2CM WIDE @ 259.8
262.0											4	-	-		0.5									100	35125	1.5	FINE QTZ VEINLETS ALONG INTERVAL.
263.5						GY ANK	Sg				1	-	1		0.1									100	35126	1.5	DAVE GREY TO BLACK CHLORITIC ALTERATION AND S INTERPOS
265.3											10	-	1		0.5									90	35127	1.8	LOCALLY BLOCKY.  CHLORITIC IRON FORMATION (265.3 TO 270.7). - MIX OF CHLORITIC SEDIMENTS, TUFF AND MAGNETIC BEDS - THE SEDIMENTS ARGILLITE/ SILTSTONE POSSESSES LOCALLY ANKERITE PORPHYROBLASTS. THE SEDS ARE THE PREDOMINANT PART OF THIS UNIT - TUFF IS BUFF TO LOCALLY GREENISH - QTZ VEINS ARE LOCALLY PRESENT - INDIVIDUAL BED THICKNESS RANGE FROM 1 TO 50 CM - MAGNETITE BEDS ARE GENERALLY INTERBEDDED WITH TUFF BEDS
266.5	M	VFG	BED	GY	SER	IF-CHL	V	15			2	-	0.1		0.1									100	35128	1.2	
268.0											10	-	0.1		0.5									100	35129	1.5	QTZ VEINLETS @ 267.0-267.40:
269.5											1	-	0.1		0.1									100	35130	1.5	
270.7											3	-	0.1		0.1									100	35131	1.2	



Dist	Rock Description						Structure				Alteration Parameters (%)														Sampl#	Wth	Comments					
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt	RQ											
																																ARGILLITE / SILTSTONE (270.7 TO 302.1) - MEDIUM GREY TO BLACK - SILTSTONE LOCALLY INTER- BEDDED WITH ARGILLITE - ANK PORPHYROBLAST PRESENT - SER + CHL ALTERATION IN MATRIX OR ON THE SCHISTOSITY PLANES - WHITE TO GRAYISH WHITE QTZ / ANK / PY VEINLETS OR VEINS LOCALLY PRESENT - PY IN QTZ VEINS OR IN MATRIX
272.0	M	VFG	BED	GY	Seri	Sg	V	25		10	-	0.1		0.5								100	35132	1.3						QTZ VEINLETS ALONG THE INTERVAL FOLLOWING BEDDING		
273.5										1	-	0.1		0.1								100	35133	1.5						BUFF TUFF @ 273.3 TO 272.6		
275.0										20	-	0.1		0.1								100	35134	1.5						QTZ + CHL VEINS AND VEINLETS ALONG INTERVAL		
276.5							V	20		10	-	0.1		0.5								100	35135	1.5						SAME AS 275.0		
278.0							V	30		10	-	0.1		0.5								100	35136	1.5						SAME AS 275.0		
279.5										5	-	0.1		0.5								100	35137	1.5						QTZ VEIN @ 278.23 TO 278.30		
281.0							B	40		5	-	0.1		0.1								100	35138	1.5						QTZ VEIN @ 280.60 TO 280.67		



Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments	
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt						
282.5	M	NFG	BED	GY	SER	Sa	B	35			15	-	0.1		0.5								100	35139	1.5	QTZ VEINS ALONG INTERVAL
284.0							B	20			2	-	0.1		0.5								100	35140	1.5	
285.5											25	-	0.1		+								100	35141	1.5	QTZ VEIN @ 285.15 TO 285.5
287.0											5	-	0.1		1								100	35142	1.5	QTZ VEIN @ 285.85 TO 285.95
288.5			COT								2	-	0.1		1								100	35143	1.5	
290.0											1	-	0.1		0.1								100	35144	1.5	
291.5			BED				V	15			15	-	0.1		1								100	35145	1.5	QTZ VEINS @ 290.85 TO 291.00, @ 291.35 TO 291.55
293.0							B	25			10	-	0.1		0.5								100	35146	1.5	BUFF TUFF INTERBEDDED WITH ARGILLITE @ 292.10 TO 293.0
294.5							V	10			20	-	0.1		0.5								100	35147	1.5	BUFF TUFF INTERBEDDED WITH ARGILLITE. QTZ VEINS 1cm WIDE FOLLOWS BEDDING
296.0											1	-	0.1		0.1								100	35148	1.5	BLACK MINOR GRAPHITIC ARGILLITE CHL ALTERATION PRESENT (MINOR)
296.7			COT								15	-	0.1		15								100	35149	0.7	MIXED OF QTZ VEINS AND FLOODING(?) WITH PY GRA/ ARGILLITE.
296.9	M	FG	UVG	MS		PY					5	-	-		95							0.1	100	35150	0.2	MASSIVE PY WITH TRACE OF ASPY. SPONGY TEXTURE
298.5	M	NFG	BED	GY		Sa	B	40			8	-	0.1		4							0.1	100	35151	1.6	GRAY ARGILLITE WITH PY AND QTZ INTERBEDDING
300.0						Sagn					1	-	0.1		0.1							-	100	35152	1.5	BLACK GRAPHITIC ARGILLITE









Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments	
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt						
339.5	M	CG	BED	GY	ANK1	SC	0	35			1	-	1		0.1							100	35163	5	GRAB SAMPLE	
341.0							U	40			2	-	1		0.5							100	35164	1.5	FROM 341.0 TO 350.7 QTZ + CALC (MINOR) + PY USINLET FOLLOWING BEDDING	
342.5											2	-	1		0.5							100	35165	1.5		
344.0							U	30			1	-	1		0.5							100	35166	1.5		
345.5							U	40			2	-	1		0.5							100	35167	1.5		
347.0							U	45			2	-	1		0.5							100	35168	1.5		
348.5							U	45			3	-	1		0.5							100	35169	1.5		
350.0							U	40			1	-	1		0.5							100	35170	1.5		
350.7											1	-	1		0.1							100	35171	0.7		
																										ARGILLITE. (350.7 TO 380.4) - MEDIUM GRAY TO BLACK - CHL + ANK ALT - LOCALLY MINOR GRAPHITE - INTERBEDDED WITH SILTSTONE AND/OR BUFF TO LIGHT GREEN TUFF - PY MAINLY ON SHEAR BEGS - WHITISH TO GRAY QTZ/ANK USINLETS/FLOODING
352.2	M	VEG	COT	GY	ANK1	SA					1	-	1		0.1							100	35172	1.5	DARK GRAY ARGILLITE	
353.5											1	-	1		0.5							100	35173	1.3	BLACK ARGILLITE	
355.0											2	-	1		0.1							100	35174	1.5	SILTSTONE BED ABOVE	



Dist	Rock Description						Structure			Alteration Parameters (%)											RQ	Sampl #	Wth	Comments		
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt						
356.5	M	UGG	BED	BK		Sq	B	35			1				0.5								95	35175	1.5	NARROW (5mm) CLAYEY/GRAPHITIC FAULT SHEAR @ 355.7 STOCKWORK OF ANK/QTZ/PY @ 355.75 TO 355.90
358.0						G/SERI					10												100	35176	1.5	QTZ/CHL/PY VEINS @ 356.7 TO 356.85, @ 357.95 TO 358.05
359.5							B	25			3												100	35177	1.5	QTZ/CHL VEINLETS AND NARROW TUFF BEDS PREC.
361.0							V	40			3				0.5								100	35178	1.5	QTZ/CHL/PY VEIN @ 360.57 TO 360.62, TUFF BEDS @ 359.65 TO 359.80, @ 360.09 TO 360.17
362.5							V	30			5				0.5								90	35179	1.5	QTZ + PY VEIN, 361.05 TO 362.20
364.0							V	20			2				0.5								95	35180	1.5	NARROW QTZ VEINLETS PREC.
365.5			COT								2				0.1								100	35181	1.5	
367.0			BED								1				0.1								100	35182	1.5	
368.5											10				0.5								100	35183	1.5	QTZ VEINS @ 367.05 TO 367.20 @ 367.55 TO 367.60
370.0							V	30			15				0.5								100	35184	1.5	QTZ VEIN @ 369.11 TO 369.65
371.5							V	10			10				0.5								100	35185	1.5	QTZ + CHL VEIN @ 371.30 TO 371.50
373.0											5				0.5								100	35186	1.5	QTZ + ANK VEIN @ 372.5 TO 372.57
374.5							V	30			20												100	35187	1.5	QTZ + ANK + PY VEIN @ 373.0 TO 373.15, @ 374.1 TO 374.25
377.9											1				0.1								100	35188	3.4	GRAM SAMPLE



Dist	Rock Description						Structure			Alteration Parameters (%)													RQ	Sampl#	Wth	Comments		
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt								
378.9	M	VE	Hom	WH	-	QV					70	3	2											80	35189	1.0	WHITE TO GRAYISH QTZ/CALC VEIN. INTERBEDDED WITH GRAY/ARGILLITE. UGGY CALC WITH PY.	
380.4	M		BED	GY	ANKI	59	6	15			1	-	-		0.1										80	35190	1.5	DARK GRAY ARGILLITE, TUFF BED @ 379.5 TO 379.55  IRON FORMATION CHL (380.4 TO 404)  - SAME DESCRIPTION AS IECHL 265.3 TO 270.7 - SPECIFIC INTERVAL ITEM IDENTIFIED
381.5	M	CG	Bed	GG	-	IFHLB	15	N	25		1	5	4												100	35191	1.1	CALC + ANK BRECCIA WITH UUGS @ 381.30 TO 381.40
383.0											0.1	-	-		1										100	35192	1.5	NO IRON BED. CHL S...
390.4							N	10			0.1	-	-		1										100	35193	1.5	CHLORITIC SEDS. GRAB SAMPLE
392.0							N	25			0.5	5	2		1										90	35194	1.5	CALC + ANK + PY JOIN @ 391.5 TO 392.00. CHLORITIC SS NO IRON BED
393.5							N	40			0.5	1	-		0.5										100	35195	1.5	MAINLY MAGNETITE + TUFF BEDS Calc veinlet with UUGS @ 392.0
395.0											1	-	-		0.1										100	35196	1.5	CHLORITIC SEDIMENTS
397.0							N	15			3	-	-		1										100	35197	1.5	CHLORITIC SEDS. QTZ + TUFF + PY JOIN





Dist	Rock Description						Structure			Alteration Parameters (%)													RQ	Sampl #	Wth	Comments	
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt							
398.0	M	CG	BED	GG	-	IFCHL	V	10			5	1	1		1									100	35198	1.5	CHL SEDS. CALC + ANK + PY VEINLET @ 397.3, QTZ + PY VEIN @ 397.7, 3mm WIDE
399.5							V	50			10	-	-		0.5									100	35199	1.5	CHL SEDS. QTZ VEINLETS ALONG INTERVAL
401.5											1	-	-		0.1									100	35200	1.65	CHL SEDIMENTS
402.5	M	VFG	ARM	WH	-	QU	V	30			85	-	3		3	0.1			0.5					100	35201	1.35	WHITE TO GREYISH WHITE, PY + PO (rare) + ASPY (NEEDS) + CHL FOUND IN THE VEIN. G <sub>0</sub> (?) @ 401.70, LOCALLY INTER- BEDDED WITH ARGILLITE MED GRAY
404.0											80	-	3		3	0.1			0.5					100	35202	1.5	SAME AS 402.5  ARGILLITE (404.0 TO 450.7)  - MEDIUM GRAY TO BLACK - SAME DESCRIPTION AS 350.7 TO 384.4
405.5	M	VFG	COT	GY	ANK	S <sub>0</sub>	B	40			1	-	0.5		0.5									100	35203	1.5	INTERBEDDED WITH CHL BED
407.0											2	-	0.5		0.5									100	35204	1.5	SAME AS 405.5
408.5											1	-	0.5		0.5									100	35205	1.6	SAME AS 405.5
410.2											2	-	0.5		1									100	35206	1.5	QTZ VEINLETS PRESENT
411.3							V	30			2	-	0.5		1									100	35207	1.3	QTZ VEINLETS ALONG INTERVAL



Dist	Rock Description						Structure				Alteration Parameters (%)											Comments			
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt	RQ		Sampl#	Wth	
412.5	M	VFG	COT	GG	ANKI	SM					30	-	0.5		7					0.1		100	35208	1.2	GREY-GREEN ARGILLITE INTERBEDDED WITH QTZ, PYPY AND CHL PRESENT.
414.0				GY			V	20			1	2	0.5		-2							100	35209	1.5	BLACK ARGILLITE CALC + PY VEINLETS WITH VUAS PRESENT
415.5							V	25			1	1	0.5		+							100	35210	1.5	SAME AS 414.0
417.0											1	-	0.5		0.5							100	35211	1.5	DARK GREY TO BLACK ARG.
418.5							V	30			2	-	0.5		0.5							100	35212	1.5	QTZ VEINLETS ALONG INTERVAL
420.0											2	-	0.5		0.5							100	35213	1.5	SAME AS 418.5
421.5											1	-	0.5		1							100	35214	1.5	QTZ VEIN @ 421.45 - 421.50
423.0							V	40			10	-	0.5		1							100	35215	1.5	QTZ VEIN @ 422.25 TO 422.35
424.5							B	45			1	-	0.5		1							100	35216	1.5	PY BEDS LOCALLY NOTED
426.0											3	-	0.5		2							100	35217	1.5	QTZ VEINLETS AND PY BEDS ALONG INTERVAL
427.5											2	-	0.5		1							100	35218	1.5	SAME AS 426.0
429.0						SERQ					1	-	0.1		0.5							100	35219	1.5	MEDIUM TO DARK GRAY, SERQ BEDS PRESENT
430.5							B	25			10	-	0.1		2							100	35220	1.5	QTZ VEINING FROM 429.0 TO 429.5, C 429.5 - 430.4 BLACK ARGILLITE WITH THIN BEDS OF PY
432.0						SERQ					1	-	0.1		0.5							100	35221	1.5	FROM 430.5 TO 432.5, MED GRAY ARGILLITE, HIGHLY SERQ BEDS OF SERQ - CHL LOCALLY ABUNDANT



Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Na	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt					
433.5	M	JFG	COT	GY	SER3	Sa					5	-	0.1		0.5						100	35222	1.5	QTZ SPOTS ALONG INTERVAL	
435.0											20	-	1		0.5						100	35223	1.5	QTZ VEIN @ 435.3 TO 435.6	
436.5											5	-	0.1		0.1						100	35224	1.5	LOCALLY DARK GREY	
438.0											15	-	0.1		0.5						100	35225	1.5	QTZ VEIN @ 437.1 TO 437.2	
439.5					SER2						10	-	0.1		1						100	35226	1.5	DARK GREY, CHL ALT. QTZ VEIN @ 438.85 TO 439.00	
441.0					SER1						30	-	1		1				0.1		100	35227	1.5	FROM 439.5 TO 450.7, DARK GREY TO BLACK ARGILLITE QTZ VEINLET OR VEINUS WITH PY ± AS ± ANK. PY AND ASPY LOCALLY FOUND IN ARGILLITE MATRIX.	
442.5							V	35			20	-	1		1				0.1		100	35228	1.5		
444.0											5	-	1		2				0.1		100	35229	1.5		
445.5											5	-	0.5		1				0.1		100	35230	1.5		
447.0											3	-	0.1		0.5				0.1		100	35231	1.5		
448.5											5	-	0.5		1				0.1		100	35232	1.5		
450.0							V	40			3	-	0.5		2				0.1		100	35233	1.5	@ ACB + PY VEIN, 2mm WIDE, @ 449.28 TO 449.30	
450.7							B	30			2	-	0.5		0.5				0.1		100	35234	1.7		



Dist	Rock Description						Structure				Alteration Parameters (%)													Comments	
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt	RQ	Sampl#	Wth		
																									MINERALIZED ZONE (450.7 TO 479.4) QTZ VEINS/FLOODING (FROM 10 TO 30%) INCLUDED IN A MEDIUM TO DARK GRAY ARGILLITE/SILTSTONE FROM 450.7 TO 463.1, AND C 476.5 TO 479.4, AND IN IFCHL (463.1 TO 476.5, PY (1 TO 10%), ASPY (0.1 TO 3%) MAINLY PRESENT IN THE QTZ VEINS/FLOODING BUT ALSO IN THE MATRIX ANK IS PRESENT IN STR VEIN VARIABLE SER + CHL ALTERATION CHL IS ALSO FOUND AS THIN BEDS OR AS STRINGERS/SPLITS IN STR VEINS. PY AND ASPY VARY FROM FINE TO COARSE GRAINED
452.0	M	VF6	COT	GY	SER1	SA,S				10	1	1		1							0.1	100	35235	1.3	
453.5										20	0.5	2		2							0.5	100	35236	1.5	
453.0										20	0.5	2		3							1	100	35237	1.5	
456.5										10	0.7	1		1							0.1	100	35238	1.5	
458.0										7	0.5	1		2							1	100	35239	1.5	BED OF SILTSTONE (GREENISH) @ 456.75 TO 456.90, CONTAINING GRAINED PY AND MEDIAN GR BOTH 10%
459.5										30	3	1		5							1	100	35240	1.5	① CALC VEINLETS/STOCKWORK WITH VUGS @ 458.40 TO 458.55
461.0										20	0.5	1		3							2	100	35241	1.5	
462.5										30	0.5	2		5							2	100	35242	1.5	
463.1										20	-	1		3							1	100	35243	0.6	END OF ARGILLITE SECTION





Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt					
464.6	M	VFG	RED	GY	SER	IFCHL					3	-	0.1		7				0.1	100	35244	1.5	BEGIN OF IFCHL. MED GREY SER + CHL. SEDIMENTS WITH BEDS OF MAF + TUFF		
466.1							B	25			20	-	1		2				0.5	100	35245	1.5			
467.6											40	-	1		4				1	100	35246	1.5			
469.1											2	-	0.1		0.5				0.1	100	35247	1.5	10% OF MAGNETITE BEDS		
470.6							B	30			1	-	-		0.5				0.1	100	35248	1.5	BLACK GRASSY SEDIMENTS		
471.8							B	20			5	-	0.5		4				1	100	35249	1.2	PY. RICH SECTION C 71.5" - 71.70		
473.0	M	VFG	CUT	GY	-	GV					60	-	3		10				5	100	35250	1.2	FROM 471.8 TO 475.0 QTZ VEIN ANK AND ARGILLITE PRESENT. PY AND ASPY MEDIUM TO COARSE GRAINED		
474.0											40	1	3		15				5	100	35251	1.0			
475.0											70	1	2		15				5	100	35252	1.0			
476.5			CUT			5a	B	10			20	-	1		20				2	100	35253	1.5	DARK GREY ARGILLITE. PY + ASPY LOCALLY SEMI-MASSIVE		
478.0											10	-	0.5		5				1	100	35254	1.5			
479.4											15	-	1		5				1	100	35255	1.5	END OF MINERALIZED ZONE		
																								POLYMIC TIC CONGLOMERATE	
																								MEDIUM TO DARK GRAY. ROUNDED TO ELONGATED CLASTS. MAINLY SEDIMENTS ALSO QTZ TUFF AND MINOR INTRUSIVE ROCKS IN ARE	

Dist	Name1	Sampl#	Width	Au (g/T)			Cu		Zn		Pb		ppm				%	
				nfa	off 2nd FA	ppb Avg	%	ppm	%	ppm	%	ppm	Ag	Ni	Co	As	SiO2	Na2O
464.6	IFLHL	35244	1.5	0.377	0.514	0.446												
466.1		245		1.166	1.543	1.354												
467.6		246		1.989	1.714	1.851												
469.1		247		0.137	0.103	0.120												
470.6		248		0.069	<0.034	0.043												
471.8		249	1.2	0.549	0.823	0.686												
473.0	QV	250	1.2	1.097	1.371	1.234												
474.0		251	1.0	2.880	3.943	3.412												
475.0		252	1.0	3.703	4.011	3.857												
476.5	5a	253	1.5	2.743	3.531	3.137												
478.0		254		0.582	0.720	0.651												
479.4		255	1.4	7.062	4.594	5.828												

3.298  
/6.4

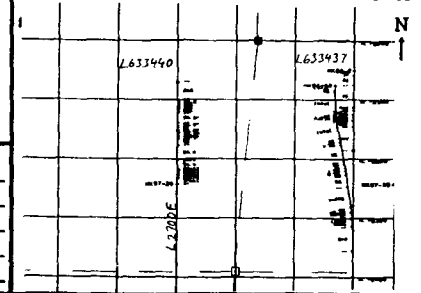
Dist	Rock Description						Structure				Alteration Parameters (%)														Sampl#	Wth	Comments							
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt	RQ													
																													RARE QTZ VEINS WITH AWK PY, PY LOCALLY PRESENT IN MATRIX LANE IN CLASTS ARGILLITE TO GREWAKE MATRIX LOCALLY SANDSTONE AWK, SER AND CHL ALTERATION.					
481.0	MCG	BED	BY	ANK	5C					1	-	0.5		0.1							100	35256	1.6											
482.5										1	-	0.5		0.1								100	35257	1.5										
484.0										2	-	0.5		0.1								100	35258	1.5										
485.5										2	-	0.5		0.1								100	35259	1.5										
487.0									V35	1	-	0.5		0.1								100	35260	1.5										
488.5										1	-	0.5		0.1								100	35261	1.5										
490.0										1	-	0.5		0.1								90	35262	1.5										
491.5									V40	1	-	0.5		0.1								100	35263	1.5										
493.0										1	-	0.5		0.5								80	35264	1.5										
494.5										1	-	0.5		0.1								100	35265	1.5										
496.0									B35	1	-	0.5		0.1								100	35266	1.5										
497.5										1	-	-		0.1								100	35267	1.5										BLACK ARGILLITE SECTION
498.6									V45	10	-	-		1								100	35268	1.5										QTZ FLOODING @498.0 TO 498.6
505.7									V40	0.5	-	-		0.1								100	35269	7.1										GRAB SAMPLE
507.0										10	-	0.5		0.5								100	35270	1.5										QTZ VEIN C 505.8 TO 506.5







HOLE #: ~~2703-20~~ **2070** NORTHING: **2070** EASTING: **2700** ELVN: **3080** LENGTH: **270**  
 TWP: Noseworthy Drilled by: Bradley Logged by: R Barber Start: Feb 13/97  
 Claim: L 633 430 Core Stored: Timmins Casing/Size: 49m NW casing Finish: Feb 16/97



Dist	Azim	Dip	Dist	Azim	Dip	Dist	Azim	Dip	Dist	Azim	Dip
0	180	-51									
120	180	-51.5									
246	180	-52									

Purpose/Results: Test HLEM conductor NW of AD Area  
156 samples. Conductor ducts graphitic argillite. Strong seric-ank altn

Dist	Rock Description						Structure			Alteration Parameters (*) In sheared seds from 49-57.5. 0.529 g/t Au / 1.3m from py replacement at 264.6-265.9													RQ	Sampl #	Wth	Comments			
	Com	Grs	Text	Co	Alt	Names	B	A1	F	A2	Qtz	Cal	Ank	†	Py	Po	Cpy	Sph	Asp	Mt									
0																													0-49 Casing
49						CAS																						49-57.5 Highly Sericid & Deformed Sediments	
49.4						LC																							
50.2	S	F	SHD	66	SER	Saps	F 60			5				2										50	35501		1.7 g/t gy, strongly fol'd, low g/t py, strongly sericid carb'd (ank). Becoming lighter gy more sericid down hole. At 50.2, 4 banded masses throughout 1-2% by disc'd fol'n // py, locally to 5%		
50.9	"	"	"	"	"	"	F 40	F 30		7				1											50	35502		Minor bn tour in gte styes at 50.9 cretin cleavage at 60; fol'n near 0 at this point.	
52.2	"	"	"	"	"	"	F 20			20				1											30	35503		loc 1.7 g/t ank, in gte styes gys include 1% gte sericid chevrs 1% bn tour in gte styes	
52.6	M	"	"	GY	"	QV	F 5			80				2											70	35504		QV - 1.7 g/t - sharp vein w. py along sed inclusion 1.7 g/t seric altn	
53.8	SS	F	"	GY	SER	Saps	F 0			10				1											60	35505		1.7 g/t seric altn	
54.1						LC																							
55.15	S	F	SHD	66	SER	Saps	F 45			1				2											70	35506		" " "	





Dist	Rock Description						Structure			Alteration Parameters (%)											RQ	Sampl#	Wth	Comments			
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt							
56.2	S	F	SHD	GY	SER	Sa,s	F	0	J	SS	5				3								80	35507		55.15-57.5 Dendritic + blocky	
57.1				GG	CHL	"					2				2									35508		opt. alt'n grad appears along	
57.5						LC																					blocky. It. gy. l. ser. field opt. lower contact at unit is in last case
58.7	SS	F	SHD	BK		Sgr					5	5			7								30	35509		57.5-62.65 Graphitic Argillite	
																											Fine in. red. black. highly graphitic. irregularly solid. Moder broken carb. 2-5 mm. di. & rounded into bands. 5cm broad band of py containing 2mm qtz grains near upper contact. Py in sect. is loc'y pitted by weathering.
59.8						Sgr					20	10			2									70	35510		58.7-62.65 Non qtz-cal stgrst +
60.2			COT	GY		QU					50	10			2									50	35511		rem. F-sgr py in contact with ash.
62						LC																					
62.65	B	F	COT	GY		Sgr					40	5			5									50	35512		
63.5	"	"	RUB	BK		"	F	45			10	5			5									20	35513		
64.05	S	"	COT	GG	SER	Sa	F	10			10		50		10									100	35514		Highly sheared inclusion(?) F-mg
64.45	B	F	SHD	BK		Sgr	F	45			2	1			5									0	35515		raggy euh. py
65.0						LC																		0			
65.4	B	F	COT	GY		Sgr					40	5			10									0	35516		streaks @ 90° FLCA
66.7						"					10	2			10									10	35517		
68.0						LC																		0			
68.5	B	FC	BKX	GY		FZ					30	5			5									10	35518		68.3-68.5 Fault Brx. Highly
70	SSS	F	COT	BK		Sgr	F	60			10	2			5									50	35519		Graphitic matrix vs 30% angular qtz-cal vein frags. 5% ag. dur. py in matrix. Loc'y up to 7% cpy
71						LC																		0			
71.75	SSS	F	COT	GY		Sgr					30	5			5									50	35520		qtz-cal v. l. vs. pitted graph. in. & pitted py. It. loc'y raggy along vein contacts.
73.2				BK		Sgr					5				2									20	35521		mainly banded & nodular py.



Dist	Rock Description						Structure				Alteration Parameters (%)										Sampl#	Wth	Comments			
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt				RQ		
73.25	S	FM	MOT	GY	CHL	Ss									2								AX3522		coarser grained, less graphic, v	
75	S	F	SHD	BK		Sgr				3				5									523		1-1.5cm ank porphyroblasts both contacts broken at ground.	
78.6										1				2									524		grab, nodular py	
79.6										.5				2									525			
80						LC																				
80.9	S	F	SHD	GY	CHL	Ss						1		10									35526		Ats 73.2-73.75, bedded py	
81.9						BK								5									527			
82.7										2		3		3									528			
83						LC																				
95	S	F	BED	BK		Ss,gr	F	65				1		15									529		83-110.4 Competent, wk's sheared graphic argillite 10-40% by diss py, 1-2% nodular py	
96.2														20										530		Nodular stretched 5:1 along bedding fol'n. low ank stgrs.
97.5	S	F	SHD	BK		Ss,gr	V	40		5		1		20									531		Wk gtz-ank stgr zone.	
98.5										1				10										532		
109.4										1		1		10										533		grab.
110.4										.5				10										534		
111.4				GY		Ss,gr	B	45						8										535		110.4-123.1 Graphitic siltstone lt-med py carbonated silty beds w. black-graphitic arg. interbeds beds 10-5-5cm thick. 1-5% wispy gtz-ank stgrs. 5-10% gently, irregular py beds & drss py. silt/arg beds too y. drss'd & folded.
116.4			BED	GY		Ss,gr				1		1		5										536		grab.
117.9										.5				5										537		
118.3			SHD				V	35	J	70	30	10		5										538		Ats-dal-cal-stgr zone. Gran'n clearage in wallrock at 70°
122							G	25				5		2										539		120.5-120.6 Graphitic Gouge grab
123.1							F	60		1		5		3										540		



Dist	Rock Description					Structure			Alteration Parameters (%)											Sampl#	Wth	Comments					
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp				Mt	RQ			
123.4	S	M	MRX	JH	-	QV					60		20		1								AX35541		123.1 - Seric'd Siltstone/Argillite		
124.8		F	RED	GY	-	SS	B	45			5			5									542		Eq. 1t qtz, thinly - mod bedded w/ low blk gy - black graph argillite beds up to 30cm thick, strongly seric'd - ank'd throughout - Bedding loc'y conformed Mm - 2% to 4% py throughout. Initially much as above, but grad more seric.		
126	"	"	"	"	"	RED					1			5										543			
126.9	S	"	"	"	"	SER					7			3								70		544			
127.9	B	"	RUB	"	"						2			2								0		545			
128.7	"	"	"	"	"		F	45	V	0	25			3					.5			0		546		1-1.5cm qtz star subll CA. Musc sph	
129.3	"	"	"	"	"	"								5								0		547		contacted 'br'd gy, to cpy, to alp?	
129.9	S	"	SHD	"	"						2			5					.1	.1		70		548		xfg - by dws py, 1tr alp	
130.6			RED			Sagf					1			5								90		549			
131.85						5a sigr					.5			2								90		550		129-145il Graphitic Argillite/Siltstone	
132.6						ANK					.5		1	7								90		551		Much as unit to 123.1 but w/ more argillite, more gxs & scattered seric'n.	
139											.5			1								85		552			
134.7	B	F	RUB	GY	ANK	"					30		5	1										553		Vuggy qtz - creamy ank/dol rein	
135.7	"	"	"	DK	"	"					1			1											554		
136.7				GY	"	"					.5			1											555		
137						LC																					
138.5	S	F	RED	GY	"	Sagf					1			1											556		
139.7	"	"	"	"	"	"					5			1											557		
140						LC																					



Dist	Rock Description					Structure				Alteration Parameters (%)											Sampl#	Wth	Comments	
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt				RQ
140.8	S	FM	COT	GY	ANK	Sa, sgr					10	20		3							70	A35558	140-144 wk gtz ank/dol	
141.8			BED							2				5							60	559	stg zone	
143									F 70	V	45	10	1	5							50	560		
144									V 30			10	1	5							70	561		
145.1										2				5							60	562	145.1-149.65 Semi-Massive	
146.1	M	FC		YL		IFs					5			50							100	563	Nodular Pyrite	
147.5											5			80								564	graphitic matrix, cal halos	
149											5			80								565	around nodules, nodules zoned.	
149.65											5			80								566	1-2 cm diam, stretched 2:1 to	
150.7	S	F	BED	AK		Sa, sgr			F 40	2				2							90	567	5:1	
151.7	"		COT			Sa				2		10		3							100	568		
153.1	M		SHD	GY						2		3		2								569	149.65-169.3 Carbonaceous Argillite	
154.1	"		"	"						5		10		1								570	fg, dk gy - blk, poorly bedded	
154.6						LC															0		Carbonaceous but not really	
155.5	M	F	SHD	GY		Sa			V 35	30		40		5							100	571	graphitic, wavy, gtz-ank/dol	
157										5		2		1									572	stg & vlets throughout
158.5										5		5		1									573	Minor - 2% tan disp py. gtz
159.2									V 0	7	50	2		5									574	stg - at top, gtz matrix
159.6										10		20		2									575	Wk - strongly fold throughout
161										1		1		3									576	
162.3									V 0	1		5		2									577	
163.2										5		15		2									578	
164										2		3		2									579	
165.5										10		10		2									580	
167										5		10		2									581	169.3-171.3 Sarcoid Argillite
168.5			BED							1		2		2									582	fg - gg mod - strongly sarcoid
169.3			BED							1		1		2									583	fractured, 11. wk gtz - gy ank stg
170.3									B 90	1				5									584	Minor fg disp py. Tr. Min. fg yellowish
171.3										1		5		5									585	terranene
174.3						Sa, s				5		2		1									586	
188										1		1		5									587	
202.6									B 20	1				5									588	169.3-235.6 Argillite/Siltstone?
203.6										1				5									589	As 149.65-169.3. Weaker

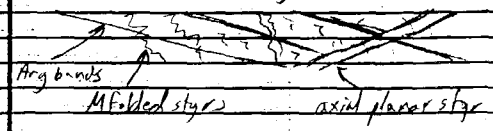
Wk fault at 189.6-189.8









Dist	Rock Description						Structure				Alteration Parameters (%)													Sampl#	Wth	Comments
	Com	GrS	Text	Co	Alt	Name1	B	Al	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt	RQ					
228.8	M	F	COT	GY	-	Says	10	V	15	30				5										609		227.8 - 229.7 Highly deformed
229.7			COT	GY	-		10	V	55	30				5										610		Corner
231.2							10			15				5										611		Well deformed with arg. bands at
232.5							35			10				1										612		low angles to core (15-20°) at cut by strongly M-folded gtz stays having ave. direction of 55° TCA. Also cut by gtz stays v. lts. at 15° TCA in opposite direction. These are // axial plane of the M-folded stays.
																										
234	M	F	BED	GY	-	Says				5				1										613		
235.6	"	"	"	"	"	"	30			1				1										614		Rip-up clasts 234.2 - 234.4
																										235.6 - 278 Chloritic IF
																										Mainly fg. dk. gn, poorly laminated strongly chl'd. argillite. Locally sheared and/or con. torted. 5% cream-coloured, 25-50µm carbonate(?) speckles. Min-2% waxy gtz - cal stays throughout. Mainly yellowish-beige, laminated cherty - tuffaceous bands. Loc. bk mag bands in t near tuff bands, but actually fairly rare. In contact of unit is strongly sheared.



Dist	Rock Description						Structure			Alteration Parameters (%)													Wth	Comments		
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt	RQ	Sampl #				
236.8	M	F	SHD	GN	CHL	IFchl	C	40			5	2		1									AX35615	In Paceous band 236-236.4		
237.4	"	VF	OOT	GY	SER	S+					2			5									616	Dist. fract filling py		
238.4		F	SHD	GN	CHL	IFchl	B	15			1			5									617	Tuff band cut by qtz-ank & cal v. chl		
239.2		VF	"	YL	SER	S+					15	5	5	5									618			
240.4		F	"	GN	CHL	IFchl					1	1		1									619	Folded cherty tuff band at 239.5-239.8		
241.4		F	BED	BG	SER	S+	R	15			2	1		1									620	Cherty tuff bands XZ		
242.7		F	"	GN	CHL	IFchl						1		5									621	" " 241.8-242		
243.8		"	"	"	"	"								1									622	" " 242.9-243.1		
244.8		VF	SHD	BG	SER	S+	B	15			5			1									623	" " 243.8-244.2		
																									244.8-246.9 Act Flooded Zone	
																									contacted zone of IFchl & S+	
																									mixed fol in at 15-20' cut bedding	
																									at 15' in opposite direction tilted	
																									by qtz-ank flooding, but no	
																									discrete vein 1-5% py, st, qtz	
																									fract fillings. Tr - mu 10g-v, dur	
																									asp.	
245.5	M	FM	COT	GN	CHL	IFchl					10			1										624		
246.9	"	FM	"	BG	SIL	S+	F	15	B	15	30			3										625		
248		F	SHD	GN	CHL	IFchl																			626	
249.4			BED		"						1	1													627	
249.7			COT		SIL						30			1											628	Act Flooded zone at 244.8-246.9
251			BED		CHL							1													629	
251.8																									630	
252.6		VF	LAM	BG	SER	IFcht					1			2							20			631	Folded cherty tuff unit	
253.2		F	BED	GN	CHL	IFchl																			632	
254.2		F	COT	BG	SER	IFcht								5	2						10				633	Folded cherty tuff
255.7			BED	GN	CHL	IFchl					2	1			1										634	
256.8			COT								10	5													635	contacted w/ky vein zone 256-256.8
257.4			BED																						636	
258.3			"								10	10		1	5										637	w/ qtz-ank st, py, po in cherty tuff
259.3																									638	
260.6		VF	COT	BG	-	IFcht					1	1			1						30			639		
261.3		F	BED	GN	CHL	IFchl					1	2													640	
262.6		VF	COT	GY	CHL	S+					5	1		4	2										641	Mineralized cherty tuff, cubic po after py



Dist	Rock Description						Structure				Alteration Parameters (%)											Wth	Comments	
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt	RQ			Sampl#
263.5	M	F	SHD	GN	CHL	IFchl					5												AX35642	
264.6			"			"				10										20			643	
265.2			BRX	GG						40					20					25			644	Well Mineralized Zone. Py replacing mag bands in gte Placed zone
265.9			SHD	GN						5					5					50			645	thin thick gänge / bx at 10' TCA
267.3			RED							1													646	
268.1			"							2													647	
269.5			RED							1					3					15			648	
271										2	2				1					7			649	
271.7							V50			20					2								650	RAV 271.5-271.7
273.2										7	3				1								651	
274										5					5					25			652	
274.5										3	2												653	
275.6			SHD				V20			20					5					40			654	RAV 275.2-275.6
276.8			RED							1					5					25			655	
278										2	1				1					5			656	EOH









Dist	Rock Description						Structure			Alteration Parameters (%)											RQ	Sampl #	Wth	Comments		
	Com	Grs	Text	Co	Alt	Namel	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt						
44.6	SS	F	SHD	GY	SER3	Ssch	F	50		2												20	AX35815		44.7-44.8 Atz-ank-dol Vlot (1 folia)	
44.9	SS									20		10			1								50	816		Slightly corroted. 1% diss
46.3	B																						60	817		similar to py
47						LC																				
48.3	SS	F				Ssch																60	818		47-50 Marchantia section	
49.3	"									5					2							60	819		Folia extend throughout w.	
50	B						F	70		20					5							70	820		axial plane 35-40 TCA. 2-5% greenish py bands 1mm thick. Graphitic near end w. highly brok'd gte stars	
51.5						LC																0			50-55.7 Graphitic Fault Zone	
52.8	B	F	RUB	BK		GFZ	F	45						5								0	821		Extremely broken core. Gravelly	
53	"	"	"	WH		QU				50				10								0	822		sections of almost pure graphite and	
54.8						LC																0			"nuggets" at mix w. interpersed	
55.7	B	F	RUB	BK		GFZ				25				10								0	823		with mod weathered pieces of highly graphitic atgillite up to 8cm long. - AMADOR FAULT	
																										55.7-68.5. Mineralized Sediments(?)
																										Fr. strongly seric'd & ank'd wky-mod ch'd, mod fold. fairly homogeneous rock. Superficially resembles some sects of atz-eye gneiss seen in the Arch; but contains no gte. Probably a highly altered green sch. Could also be a fault. Very fractured, broken core. 1-10% f. diss py as well as 1-10% f-mg star d fract filling py.



Dist	Rock Description						Structure			Alteration Parameters (%)											RQ	Sampl #	Wth	Comments	
	Com	GrS	Text	Co	Alt	Namel	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt					
57	B	FM	SHD	GY	SER3	Sgr								2							50	AX35824			
58.5	"	"	"	"	"	"				1				4							0	825		2cm gouge @ 70 TCA @ 57.6	
58.8						LC															0				
59.8	B	FM	SHD	GY	SER3	Sgr								7							50	826		58.8-59.2" gouge @ 20-30" TCA	
61.3														10							0	827			
62.3														15							0	828			
63.3														15							50	829		63.3-66.5, rock appear tectonically	
64.4										1				10							50	830		brzd	
65						LC															0				
66.5	B	FM	SHD	GY	SER3	Sg				5				15							0	831		DAV 66.2-66.3 v- 20% py in wall rock	
67.3														7							0	832		+vein	
68						LC															0				
68.5	B	FM	SHD	GY	SER3	Sgr								10							0	833		68.15 2cm gouge, angle uncertain 68.3-68.5 Broken to ground DAV w- 10% py, num. graph. shears & inclusions	
69.5	B	F	SHD	BK		Sgr								15							70	834		68.5-69.5 Graphitic Argillite	
70.3	S																				70	835			
71						LC																			
72	S	F	SHD	BK		Sgr				1				15							70	836		Fg. black, wky - strongly fol'd, massive matrix w- 10% nodular py 15-50% mag. disc & star	
84.3	M													15							100	837		trub'ic py near beginning of section. Loc. discontinuous py beds are pulled apart and spaces filled w- calcite. Py nodules also have calcite. pressure shadows. Num. rip-up clasts	
85.3														10									838		
85.6			BED	YL		IFs	B 35							90									839		
87.1			SHD	BK		Sgr	V 45			2				15							80	840			
95	S									2				20							80	841			
96.1														7							100	842			
96.4						IFs								25							11	843			
97.4	S		NOD	YL		Sgr	V 30			7				7							80	844		After 77m, argillite is some what lighter, w- low fine silty beds. Still has nodular & bedded py.  85.3-85.6 Massive Py Bed. - local stgrs.  96.18-96.4 Massive Py bed.	



Dist	Rock Description					Structure				Alteration Parameters (%)											Wth	Comments		
	Com	GrS	Text	Co	Alt	NaMel	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt			RQ	Sampl#
98.2	S	F	SHD	GY	ANKI	S <sub>2</sub> , gr	V	35			20		10		5			.1				AX35845	96.4-98.2 wk gte-wh ank stgr	
99.5	"	"	"	OK	"	"				3				5								846	zone S <sub>1</sub> stgr py.	
105.4	M	"	BED	GY	"	S <sub>2</sub> , s, gr								5								847		
106.4	"	"	"	"	"	"								5								848	After 98.2, graph content diminishes considerably. Elastic silty beds becoming more common.	
107	M	F	SHD	GY	ANKI	S <sub>2</sub> , gr	V	30		30				4			.1					849	106.4-107 RA vein zone	
108	"	"	BED	"	"	S <sub>2</sub>								2								850	Slightly conformed gte-ank vein	
109.5	"	FC	CLAS	"	"	"				2				3								851	stgr w shear texture	
																							108-109.5 Ltgy silty bed w. 5-11% 5-1cm rip-up clasts overall clastic appearance. Poorly graded bedding suggests tops down hole	
111	M	F	SHD	GY	ANKI	S <sub>2</sub> , s, gr	V	10		5				4			.1					852	109.5-115.2 AV-stgr zone	
112.5				OK	"	"				7				3			.1				100	853	wh-11 gy brkt shear veins + stgrs in graph arg/siltstone.	
113.3				GY	"	"				40				5		.1?	.1					50	854	
114.4				WH	"	AV				70				3		.1?	.1					50	855	All at low angles to core. 1-2%
115.2				GY	"	S <sub>2</sub> , s, gr				30				4								80	856	arg cubic py mainly in wallrock, but some in gte. Tr A-mg H-mod
116.2						"				1				3							100	857	km-sph. Loc tr cpy (or tarnished py?)	
117.6			BED	"	"	"				2				5			.1						858	
118.5			"	"	"	"	B	40		20				5									859	
120			SHD	OK	"	"				5				5									860	
																								116.8-117.2 poorly graded bedding in silt bed suggests tops uphole
																								118.5-121. Folded gte thread stgrs in graph arg. 1 fold on one side of core, 2 folds on one adjacent side. 5 folds on other adjacent side. Dip at stgrs (ie plunge of fold nose) is 45° TCA
																								127.5-128.5 wk gte stgrs





Dist	Rock Description					Structure		Alteration Parameters (%)													RQ	Sampl#	Wth	Comments				
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	Dol	%	Py	Po	Cpy	Sph	Asp					Mt			
136.7	M	F	RED	GY	-	Sa,gr	B	30							3								90	AX35861	132-133.5 Min. rip ups in silt/grk			
137.7	S														3								100	862	bed suggest top uphole			
138.7															2								70	863				
139.7															5								80	864	137.75 dol brk str 3-7mm wide			
150.8	SS														2								70	865	@ 25% TGA w- 20% ca br sph			
152.8	B		RUB												1								0	866	56 gts stars @ 15-20 TGA tab in			
152.8	B														5								0	867	sample			
154.1															1								0	868				
155	-	-	-	-	-	LC																	0		148.7-159.5 Broken, rubble zone			
156.5	B	F	RUB	BR	-	Sa,gr									5								0	869	Pass fault zone			
157.1	B														2								0	870				
158	-	-	-	-	-	LC																	0		151.8-152.8 Qtz-dol str 1-1.5cm			
159.5	B	F	RUB	BR	-	Sa,gr									2								50	871	wide, 11 to core 5-10% lt an			
161	M	F	RED	GY	ANK2	Ss									1								80	872	material, med soft - sericite opalite?			
162.5						Ss,gr									8								100	873	tr 1-6% sph. Min - 3% py in wallrock			
164						Ss									15										874			
164.9						RAV	V	40							80											875	152.7-159.5 Loc. Qtz-ank v. left	
166						Sa,gr	B	45							2											876	stars in graph argillite 1-2%	
167.5						Ss									2											877	py in Qtz 2-5% py in wallrock	
169						Ss									1											878		
170.5						Ss									1											879	156.5-156.7 Graphitic Gouge	
171.6	SS		RED			Ss									5								50	880	STRONG FAULT			
																												159.5-192.4 Mixed Siltstones and Argillite
																												Much as prev unit, but much more siltstone beds loc graph argillite
																												Min 5% mg diss py, more consid in argillite
																												164-164.9 RA Vein - Oxidated grey ank vein 10% lt green sericite as in vein at 151.8-152.6



Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl #	Wth	Comments			
	Com	Grs	Text	Co	Alt	Namel	B	A1	F	A2	Qtz	Cal	Ank		%	Py	Po	Cpy	Sph	Asp	Mt							
172.8	S	VF	GHD	BK	-	S <sub>2</sub> gr					10	5			5									AX35881		183.5-185.7	Qtz-cal stgr	
174.3	"	"	"	"	"	S <sub>2</sub> gr					1				5								882			zoned. stgr at 1/2 angle to		
181.6	M	"	BED	"	"	"	B	50			2				5								883			core: Min. on sph, rimmed near		
182.6	"	"	"	"	"	"					.5	.5			5								884			edges of stgr.		
183.5	"	"	"	"	"	"					4	1			2								885					
184.5	"	F	"	"	"	GY ANKI S <sub>2</sub>					.5	.5			1								886					
185.7	"	"	"	"	"	"	V	15			15	10			2								887			192.4-232.7	Graphitic Argillite	
186.7	"	"	"	"	"	"					.5				1								888					
192.4	"	"	"	"	"	"									1								889					
209	M	VF	BED	BK	-	S <sub>2</sub> gr									5								890				Mainly r.fg, black graphite	
223	"	"	"	"	"	"									5								891				argillite v. 5-10% gy siltstone	
224	"	F	"	"	"	GY ANKI S <sub>2</sub>									1								892				beds 1-20cm thick. 1-2%	
225.5	"	"	"	"	"	"					5	5			5								893				fg bedded py .5-1cm thick	
226.5	"	"	"	"	"	S <sub>2</sub> gr					1				5								894				as well as 2-5% P-mg disc. py	
232.7	"	VF	"	"	"	S <sub>2</sub> gr									2								895				and nodular py.	
251	"	F	"	"	"	S <sub>2</sub> gr					.5	.5			1								896				212-219 5% Qtz-cal stgr 30° ±	
																												70° TCA
																												223-226 Siltstone bed w.
																												nk Qtz-cal stgr.
																												232.7 - siltstone/Argillite
																												As 189.5-192.4. Siltstone
																												beds commonly 0.5-1m thick.
																												Highly graphitic areas noted.
																												Carbonaceous throughout. Min
																												5% py throughout. Min Qtz-cal
																												stgrs throughout
																												238.5 Flame structures in siltstone
																												bed suggest trace sphale.
																												251.8-253.6 Graphitic argillite



Dist	Rock Description						Structure				Alteration Parameters (%)											Sampl #	Wth	Comments	
	Com	Grs	Text	Co	Alt	Na <sub>1</sub>	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt	RO				
271.1	M	VF	BED	BK		Sa,gr	B	40	F	50	.5	.5			3								AX35897	254.7-294.2	Graphitic Alagillite
272.15							B	60							3								898	2-5% nodular & bedded py	
272.5			COT				V	20			35			2				5					899	Bedded py shows S exsolution	
273.5			BED											5									900	Axial planes are    to wk fol'n	
294.2			"								.5			3									901	at 50° TCA	
295.2		F	"	GY		Sa,ss					1			2									902	1	
296.5			STVK		ANK1		V	25	V	45	15	5		2									903		
298			"								2	5		1	1								904	At 297.1 Bedding @ 35° fol'n	
299			BED				B	45			1	2		1									905	@ 5-10% fol'n circa'd & wk	
300			"											.5									906	secondary fol'n developed @ 70° TCA	
306.6			"											1									907	Intersects 1st fol'n @ 80° bedding	
307.8			"											1									908	@ 85°	
308.7			"			CA3	V	30			3	80		.5									909		
309.7			"											1										910	272.15-273.5. Contacted RV zone
325.6			"			Sa,gr								1	1								911	Zn-f-mg diss py, min bn sph	
326.6		VF	"	BK		Sa,gr								1									912		
326.9			SHD				V	30			20			5				5					913	281 Bedding @ 40-60° TCA	
327.9			BED											2									914		
			"																						284.5 py beds folded into
			"																						"bullseye" pattern wk secondary
			"																						fol'n @ 65° TCA is axis of folded
			"																						beds. Other axis is = 5° TCA +
			"																						crosses 1st at 85° angle
			"																						295.2-299 wk gtr-cal stg zone
			"																						5-2cm stg @ 25-45° TCA
			"																						Hosted in siltstone bed
			"																						307.6-108.7 Mod. silicified zone
			"																						W. 5% gtr-cal stg
			"																						326.6-326.9 Sheared & slightly
			"																						contacted gtr vein zone. Min bn
			"																						sph. 5% f-mg diss & stg py.
			"																						333 Bedding @ 40° cut by wk fol'n
			"																						@ 55° TCA. L.w. bedding = 60°



Dist	Rock Description						Structure				Alteration Parameters (%)											Sampl#	Wth	Comments	
	Com	Grs	Text	Co	Alt	Na mel	B	A1	F	A2	Qtz	Cal	Ank		%	Py	Po	Cpy	Sph	Asp	Mt				RO
336.9	M	F	RED	GY	-	Sa sgr									1								AX35915	337.9-339	Ata-cal stockwork
337.9			SHD		-	"									.5								916	zone, in fg, siliceous chert, chert	
339			RED		CAK1	5 chf				10	10				.5								917	wtly brx'd.	
340			RED		-	Sa s									.5								918		
359			"		-	"									.5								919	343.3-343.5 Graphitic Fault 2cm gouge of 1/4" dk brx stgs @ 30' T&H	
																									353-359 Lowly contorted bedding.
																									359 EOH.
																									NW casing left. Hole could be extended to test secondary conductor to south.





Rock Description		Structure		Alteration Parameters (%)														RQ	Sampl#	Wth	Comments									
Dist	Com	Grs	Text	Co	Alt	Nome1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy					Sph	Asp	Mt						
72																														
73.5		FC	NOD	6Y	-	Sag						2														100	AX37384			
75												2															385		77-84.3 Finely bedded graph. arg. w	
76												2															386		5-10% larger 2-20mm clasts, mainly	
77		FM	MBX									1															80	387	aphanitic arg (?) + loc chert	
78.4												1															70	388	Probably a trachytic brecc. Ct	
78.7							V	45			2	.5														100	389	w. nodular sect above in broken		
80												.5																390	sect	
81.1												.5																391		
81.5			MSV									2																392	Fg msv. lt gy sect. Unbedded	
82.15		F	MBX									2																393		
83.5		FC										1																394		
84.3												1																395		
87.1																													87.1-95 as 77-84.3 above	
88.1			MBX	6Y	-	Sag	F	45				1															100	AX 37396	w. loc py-nodule rich sects	
88.4			NOD									2																397		
89.4			MBX									.5																398		
90.5							F	5			7	.5															50	399		
91.7			NOD								7	.5																100	400	
92.0			SHD								30		1															1	401	SHD QPV zone
93.0			NOD								10																		402	
94.1			"								15																	70	403	
95.0			MSV																									100	404	Fg msv. lt gy sect as 81.1-81.5

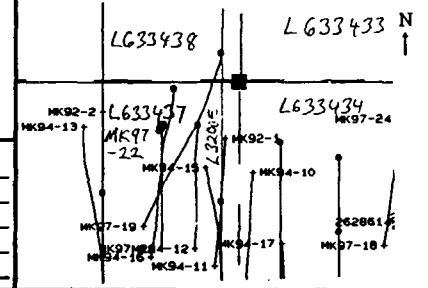
Highwood Resources Ltd. (formerly Mountain Minerals) / Mikwam Joint Venture

Dist	Name1	Sampl#	Width	Au (g/T)		Au	Cu		Zn		Pb		ppm				%	
				nfa	cfa	ppb	%	ppm	%	ppm	%	ppm	Ag	Ni	Co	As	SiO2	Na2O
72.0																		
73.5		AX37384	1.5	0.114														
75		385	1.5	0.246														
76		386	1.0	0.200														
77		387	1.0	0.238														
78.4		388	1.4	0.026														
78.7		389	1.3	0.036														
80		390	1.3	0.038														
81.1		391	1.1	0.088														
81.5		392	0.4	0.050														
82.15		393	0.65	0.093														
83.5		394	1.35	0.034														
84.3		395	0.8	0.028														
87.1																		
88.1		AX37396	1.0	0.050														
88.4		397	0.3	0.148														
89.4		398	1.0	0.058														
90.5		399	1.1	0.116														
91.7		400	1.2	0.238														
92.0		401	0.3	0.092														
93.0		402	1.0	0.576														
94.1		403	1.1	0.333														
95.0		404	0.9	0.040														

0.196/2.0

0.230/2.0

HOLE #: ~~20705~~ NORTHING: 20705 EASTING: 31000 ELVN: 3040 LENGTH: 319  
 TWP: Noseworthy Drilled by: Bradley Logged by: R Barber Start: 16/02/97  
 Claim: L633437 Core Stored: Timmins Casing/Size: 61m MW & BW Finish: 20/02/97



Dist	Azim	Dip	Dist	Azim	Dip	Dist	Azim	Dip	Dist	Azim	Dip
0	180	-51	250	180	-48						
70	180	-51	310	180	-41						
130	180	-50									
190	180	-49									

Purpose/Results: Test 3200 Vein at -275m level  
 154 samples. Py-po-asp mineralization intersected in grey rocks

Dist	Rock Description						Structure			Alteration Parameters (*)														Wth	Comments	
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt	RQ	Sampl#				
0																									0-61 Casing	
60.3						CAS																				
60.6	S	F	BRX	WH	OXD	RV				95				10						5	50	AX35657			60.3-60.6 Mineralized Qtz Vein, Probably a boulder, possibly subcrop	
61						CAS																				61-124 Mixed chlorite, Iron Formation and Cherty Tuffs Broken, rubble core. Vfg laminated beige to yellowish cherty tuffs interbedded with fgn dk green poorly laminated sediments containing num. speckles of white seric. Also interbedded w magnetite LF. Minor - 1% py, mainly along fracture w/isp, etc - cal stggs throughout. Cherty tuff more common in lit 50m at upit. 61-64m 0.5m lost core 64-67m " " " 67-70m 1.2m " "
71	B	F	RUB	BG	GER	St chl								.5							50	35	658		grab	
72.1	M		CAM	"	"	St								.5							90		659			
73.3			BRX	"	"	"				30				2							90		660		qtz brx zone	
74.3			SHD	EN	CHL	IFChl				5	2			2							90		661			

at 163.7-168.1, 178.8-188.7, 222.3-224.4. Quartz-an kerite vein at 267-269.5 may represent 3200 Vein Zone. Only significant Au value are 0.203g/t/0.6 at 124.0-124.6



Dist	Rock Description					Structure		Alteration Parameters (%)													Wth	Comments			
	Com	Grs	Text	Co	Alt	Nome	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt			RO	Sampl #	
79	M	F	BED	BL	SK	S+																80	AX35662	grab	
80.2			SHD	GN	CHL	IFchl																100	663	80.2-82.5 Oxide I.F. w. wk qtz	
81.4			SHD	GN	CHL	IFchl	B	10														90	664	residual Mn - 1% by diss py. Pch	
82.5			"	"	"	IFo																80	665	to rly asp.	
83.5			SHD	GN	CHL	IFchl																20	666		
84.5			"	"	"	IFchl																10	667	82.5-85.8 Sheared, chlorite	
85			"	"	"	LC																0	668	IF, strongly fol'd, WE etc. signs	
85.8	M	F	SHD	GN	CHL	IFchl	F	3														15	100	11 fall'n 1% diss py + 1% by diss	
91.7	B	"	BED	GN	CHL	"	B	10														70	669	asp	
92.7	M	"	SHD																			80	670		
94.2			"				F	30														90	671	Qtz-ank vlets 11 fall'n	
95.2			"																			80	672		
96.5			"																			80	673		
97			"			LC																0			
98.1	M	F	BED	GN	CHL	IFchl																90	674		
99.1			"				B	35														90	675	1st 30cm lpx'd.	
100.6			"	BL		IFo																70	100		
101.4			"			IFchl																80	677		
101.7			"			LC																0			
102.7	M	F	BED	GN	CHL	IFchl																15	90	678	
103.3			"																			30	100	679	
104.3			"																			80		680	
105.7			"																			100		681	
106.8			"																			30	100	682	
108.3			"	BL		IFo																80	70	683	
108.9			"			LC																0			
109.7	S	F	SHD	GN	CHL	IFchl																5	70	684	sheared near cherty tuff head
110.7	M	"	"	"	"	"																10	50	685	
111.5	"	"	RUR	"	"	"																30		686	111-113.9 Rubbly Fault Zone
112			"			LC																0			
112.7	S	F	SHD	GN	CHL	IFchl	F	0														30	70	687	sheared IF w. py along folion
113.9			"			LC																0			
114.6	S	F	SHD	GN	CHL	IFchl																100		688	
120.4	M	"	BED				B	35														1		689	grab
121.8			"																			5		690	
122.3			"																					691	Wk BAV at contact - cherty tuff
123.4			"			IFo	B	40														40		692	



Dist	Rock Description						Structure		Alteration Parameters (%)													RQ	Sampl #	Wth	Comments	
	Com	GrS	Text	Co	Alt	NaM1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt						
123-8	B	F	RUA	GN	CHL	Fchl	V20			10		5		1								0	AX35693		RAY w-ruggy qtz + ruggy py	
124						LC																				
124.6	S	F	SHP	GB	CHL	5a								1								50	694		124-126.9 Sheared Argillite	
125.5	S	"	"	"	"	5a	F40			15				2								60	695		By dk green-black well sheared (F. 14) With bandings of qtz + ant	
126						LC																				
126.9	S	F	SHP	GB	CHL	5a				20		2		1								70	696		By py // folia. Explanatory in contact, sharp out contact	
																										126.9-142.8 Conglomerate/Tuff
																										Lt-mod gg-gy + frong by Bo Md with many clasts showing elongation of 5:1 to 10:1. Proximately called conglomerate, this unit has no gv clasts + consists entirely of volcanic clasts in a ferr-ch/matrix. In qtz + ant. very variable in matrix. Loc dk gy + qb bands up to 70cm long. Loc dk qtz + ant + py + vening, almost always bandings. Med carried + chills up to 2m. Py lacy, but usually in gv zones
128	S	C	FRAG	GG	SER	5c	C55			1												80	AX35697			
129.5							F35															100	698			
131										1																131-133.6 wt qz + stg zone, lacy
131.9										7		3		.5												ruggy, 1 to 1.5 ft dk
133										15				1												
133.6						GY CHL				10				.5												5" gauge at 127.9 H. folia
134.6						GG SER				7				.5												
141.8			CLAS	"	"		F40							1												
142.8			"	"	"		C45							1												
																										Note: Unit is a conglomerate later seen to contain well rounded clasts of RFP + stg. Identical to unit called conglomerate in the AB area





Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl #	Wth	Comments	
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt						
143.8	M	VF	LAM	GY	-	5a	B	45		1													AX35706		142.8 - 152.8 Sericitized Argillite	
145										1													707		Siltstone	
146.5										5													708		Lagg. G. - x-bedded, but also	
148			SHD	GG	SER	5a.s				2													709		strongly fol'd. Silt. beds are	
149.5										5													710		like the gneiss and are fairly	
151										3													711		massive. Wk gte - ank start vlt's	
151.9			MSV							2													712		1.5% through with Mn - 1% mg	
152.8			RED				B	10															713		rich py.	
154	M	C	CLAS	GG	SER	5c																	714		152.8 - 159.6 Conglomerate	
154.6	"	"	"	"	"	"																	715		As 126.9 - 142.8	
155.5	M	F	RED	GG	SER	5a.s	B	80		3													716		154.6 - 158.1 sericitized	
157			ROT				F	0		5													717		Argillite / Siltstone	
158.1			RED							1													718		As 142.8 - 152.8	
																										158.1 - 192.9 Qtz - Fy. Grsywacke
																										Fy. 1 fgy. strongly sericitized matrix w/ 5-15% .5-1.5mm evenly distributed gte grains w/ky fol'd throughout. Use Argillite inter beds of Cox large exotic clasts.
159.1	M	F	SHD	GY	SER	5g.9	F	20															719		161 + 162.8 Argoniturbed	
162.7		EM	MSV	GP	"	"																	720			
163.7																								721		163.7 - 168.1 - Weakly Mylonitized
164.5							F	45		1													722		1-2% combined py 11% calc	
165.3										5													723		may be stretched siltite gte	
165.9																										reformed stretched clastic Wk
167.1	M	F	MSV	GY	SER	5g.9																	724		qtz - cal vlt's + gte - ank str	
168.1							F	55		10													725		163.7 - 164.5 - 1.5% exp. containing	
169										1													726		as does po.	
173.4			RED				B	45															727		170.4 Cherty buff clastic 10% py py	



Dist	Rock Description						Structure			Alteration Parameters (%)													RQ	Sampl#	Wth	Comments				
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt										
178.4	M	F	MSV	GR	CHK	Sg																				AX35728		175-178.8 grade unit gradually		
178.8	S		SHD			Sg	F	30		10				5												729		gets darker & finer grained		
180	B		RUB		SER	EZ	E	45						1												730		fewer holes. last 30cm is a stringy		
181.5	M	FM	RED			Sg								2												731		folded w/ky carbonaceous argillite		
183							B	45						7	3											732		v. fall // qtz-ank and py lags		
184.5			MSV											7	5												733		This interval may represent the	
186														5	3												734		top of a Barrow sequence?	
187.2														7	2												735			
188.7														5	5												736		178.8-188.7 Qtz/Sulphide rich grade	
190														7	1												737		Much as main unit, but with 20-25%	
190.9														7	1												738		clear mm qtz eyes. Matrix also	
191.9			SHD		ANK	Sg								7	1												739		slightly coarser, more like a true	
192.9							F	45						7	1												740		quartzite. Contains 2-5% combie pyrobeds 2-3mm thick and mainly clasts (replacement?) 1-10mm in diam & slightly elliptical in one direction and 2-20mm long & elongated // to wk fall/banding Also 1-2% Py disc py in matrix Also, there are thin black fronds & dendritic patterns roughly // bedding/ fall	
																														179.6-180 Rubbly fault w. a little sandy gouge. Edges of fault @ 70° & 50° TCA.
																														190.4-197.9 Grad darker & swack grains. Stray chl-ank with Mudflats



Dist	Rock Description					Structure			Alteration Parameters (%)											RQ	Sampl #	Wth	Comments						
	Com	Grs	Text	Co	Alt	Name1	B	Al	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp					Mt					
194.1	S	F	SHD	GY	-	Sagr	C	45	F	10	40		10		1										AX 35741	741	192.9-204.6 Graphitic Argillite		
194.7	M		"	"		ANK	S	agr	F	20					3										742				
196.3			BKX			"	ANK	V	10		70		10		2										743	Fal. dk. gy - black, mod - strongly			
197.3	S		SHD	BK	"	Sagr																		80	744	Fal. dk. loc. dirty gr. v. k. beds			
198.3	S		"	"		"																		70	745	up to 5m thick, w/ipy it contacted gr. - ank steps throughout 1-5% f - kgd. in cubic py. + step py.			
																											193.15-196.3 QAK		
																											Strong gr. - ank, yellow. Initially + gr. + flooded spear py. dk. gy gr. - w. gy ank throughout 1-2% laminated - in eg cubic py. in rock + resist by fract. filling of step py in gr.		
198.8	S	MC	VAG	YL	-	IFs								70											60	746	Semi-massive, cubic, pitted, in-eg		
200.2	"	F	SHD	GY	CHL	Sa								10												747	py		
201.6	M													5	.5											748			
203														1	4												749	198.8-204.6 Grading into dk. gy	
203.9						SKL								1	4												750	argillite, to sericite - ank alt'd	
204.6	S			GG	SER		F	95			5			6	2										50	751	arg. py. nodules 2-5mm long grading px to no (replaced?) nodules down hole. More sheared & seric near end of unit.		
205.4	S	EM	SHD	GY	ANK	Sy					2			1												60	752	204.8-204.3 Greywacke/Qtz-	
206.4	M					"																				100	753	Greywacke	
210																												754	
210.8			MSV			SER																						755	Initially mod. dk. gy, chl - ank alt'd to 5% gr. grains. Gradly down hole into strongly sericified & ank, more massive unit as 15%   - 192.9, alternatingly dark gy. be again. Min. to py & grs/ beds



Dist	Rock Description						Structure		Alteration Parameters (%)														RQ	Sampl #	Wth	Comments		
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt								
211	B	FM	SHD	GR	SER	Sg									.5											AX 35756	2 faults w. msy py infilling	
212	M		MSV		"	"																				57	3mm to 7mm thick, respectively	
216.4										.5																58	at 20' = 30' TCA	
217.4					CHL	Sg									.1											59		
217.9										10					.5	.1										60	217.4 - 217.9 Wk gte star zone	
218.9															.1											61	w. tr - 1/6 vfg - fg disc asp.	
220					SCL										.1											762	more coarse near star margins	
221.3												15			.1											763	M. a. yellowish leucocrone	
222.3															.5											764		
223.2							F 45			10					.1											765	222.3 - 224.4 Wk gte zone	
224.4										20					.3											766	zone. Tr - 1/6 f - mg mainly	
225.4											10				.5											767	stubby asp. disc in wallrock	
226.9															.1											768	Tr - dark disc py tr po in stars	
																												2mm wky - mid f'd. locy green d. Ax. f. green in at 55' TCA.
228.4	M	FM	MSV	GY	SCL	Sg								.5												769	5cm gravelly fault @ 228.4	
229.3			BED				B 35							.3	4											770	"bedded" po-py @ 35' TCA	
230.3			MSV												.1												771	
240.3					SER	Sg	C 45								.5												772	grab, locy 1-2% py
243	S	F	LAM			Sa																				773		
244	"	"	"			"																				774	240.3 - 244 Argillite	
																												Egs dk gy. v wky seric'd
																												sharped & con tapered toward
																												lower contact.
																												Gravelly fault @ 240.7, 5cm wide
244.6	M	C	SHD	GY	SER	Sa	F 30			.5				.1												775	244 - 247.6 Conglomerate	
245.6			CLAS							.1					.1												776	
246.6			"												.5												777	Polylithic, matrix supported
247.6			SHD				F 20			15				.1													778	lt. gy - gg, seric'd. lib. gte
																												stg. - gg clast. 5mm - 5cm long
																												stretch'd up to 10.1. s. f. very
																												f. d. near contacts





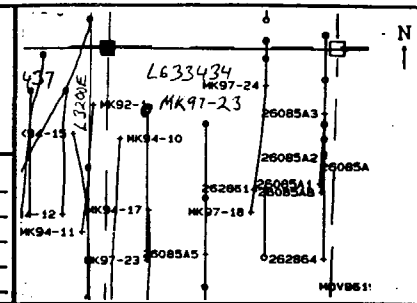
Dist	Rock Description						Structure		Alteration Parameters (%)											RQ	Sampl#	Wth	Comments					
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp					Mt				
249	M	F	MSV	GG	SER	Sg																		AR 3579	247.6-254	Greywacke		
252.5															.5									780				
252															.4									781		Fg: mod fol'd, gg, mod		
253															.1									782		seric'd homogeneous greywacke		
254							V	30				5			.1									783		bed: Minor ga stars. Tr-min. m-cg diss Lubric. py.		
254.7	M	C	SHD	GG	SCL	5a	F	30		15		10		.5										784	254-257.9	Conglomerate		
255.5										5					.7										785			
256.2										10					1										786		As: 244-247.6 Many cherty	
257.1										5					.5	.1									787		clasts w/ py, po up to 10%.	
257.9					SER					1				1											788		Minor fuchsite	
259	M	F	MSV	GY	SER	Sg/g						1		.5	.5									789	257.9-259.9	Qtz Eye. Greywacke		
259.9	"	"	"	"	"	"	F	20						1	1									790		Fg: lt gy matrix w. 5-10% / mm qtz grains. 1% py-po elongated clasts. Black fract fillings. As integral from 178.8-188.7. Mod fol'd @ 20' TZA		
261	M	VF	SHD	GY	CHL	5a						1		.5											791	259.9-269.3	Argillite	
262			LAM				B	10						1											792			
262.6			SHD				V	20		50		5		.1											793		Approx. mod gy strongly fol'd @ 10'	
263.5										1				1											794		TZA. Loc 2-3cm long rip-up	
264.7										1				1											795		clasts (?) visible. Initially ch'd,	
266										5		5		.5		.1									796		grading down hole into gy-gg	
267										5				.5											797		seric'd arg.	
268.4	M	C	BRX	GY	SCL	QAV	C	35		60		10		.5											798		Qtz-Ank Brx Vein, Gy gtz w.	
269.3	M	VF	SHD	GY	CHL	5a	B	10		5		2		1											799		lt black-gy wallrock Brax.	
270.3	M	FM	SHD	GY	SER	Sg/g	F	30		2				.5											800	269.3-281.8	Qtz Eye. Greywacke	
281.8			MSV																							801		lt gy, seric'd, As 158.1-192.9. Mod cg cubic fr. clotted py.
																												279.2-279.6 Argillite bed



Dist	Rock Description						Structure			Alteration Parameters (%)											RQ	Sampl#	Wth	Comments						
	Com	Grs	Text	Co	Alt	Namel	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt										
																														281.8-288.5 Argillite/Siltstone
																													Lt - dk gy, relatively thickly bedded siltstone beds up to 0.5m. Thick lacy mold sheard. Tr - min f-mg disc py. Tr wispy qtz - ank sthrs. Gradational in contact, out contact in vein zone.	
287.2	"	"	LAM							-1				1															AX35802	
288.2	3	"	"											5																QAV in contact zone veinlets
288.7	5	"	SAD		CHL	CTZ	F35	V	35	30		10		1															out foln.	
289.7	M	PM	MSV		SCL	59iq								5																
307.8														1																288.5-319. Qtz Eye Greywacke
308.9														1																Lt - mod gy, seric'd & mod chld. Much as 158.1-192.9. Tr - lacy 1% disc & "bedded" py.
309.9	M	FM	SAD	GY	SCL	Egg	F45			20		30		5	1															BA-stgr zone II foln.
310.4	"	"	MSV		SCL	"								1																
319	"	"	"		"	"	F50			1				5																EOT
																														Attempted to pull casing, but jammed. 61m at NW and 13W casing left in hole. Casing making water.
																														All tests are acid tests, azimuth assumed to be straight. Sperry-sun and Tropari units both broke.



HOLE #:                      NORTHING: 2100 S EASTING: 3000 E ELVN: 3020 LENGTH: 400  
 TWP: NOSEWORTH Drilled by: BRADLEY Logged by: ERIC GENEAU Start: 19 FEB 97  
 Claim: 633434 Core Stored: JIMMINS Casing/Size: NW/BW Finish: 23/02/97



Dist	Azim	Dip	Dist	Azim	Dip	Dist	Azim	Dip	Dist	Azim	Dip
0	180	-50	353	180	-49						
110	180	-52	401	180	-51						
230	180	-48									
293	180	-50									

Purpose/Results: TEST DOWN  
DIP AND STRIKE EXTEN-  
SIGN OF 300 VEIN IN  
MK 94-10.  
130 samples 3200 Vein intersected

Rock Description:                      Structure:                      Alteration Parameters (%): at 294.5-317.7 Assayed 1.516 g/t / 152 m, including 3.014 / 6.0 m at 306.5-312.5

Dist	Com	GrS	Text	Co	Alt	NaM1	B	A1	F	A2	Qtz	Cal	Ank		‡	Py	Po	Cpy	Sph	Asp	Mt	RQ	Sampl#	Wth	Comments
49.0						CAS																			46 m CAS NW, 49 m CAS BW
																									ARGILLITE/SILTSTONE (49.0 TO 159.2) - MEDIUM GRAY TO BLACK - TEXTURE: BEDDING TO FOLIATED - SEX + ANK, LOCALLY CHL ALT. - LOCALLY GRAPHITIC - BROKEN/BLOCKY @ 49 TO - QTZ ± ANK ± PY VEINLETS/VEINS LOCALIZED - PY: CUBIC IN MATRIX OR IN THIN VEINLETS BETWEEN BEDS
62.0	B	VFR	BEDGY	SERA	50.5	B60					1	-	0.1			0.5						0	35281	13	GRAB SAMPLE, HIGHLY BROKEN LOST CORE: @ 49-50, 0.4m, @ 50-53, 1.7m, @ 53-56, 1.8m, @ 56-59, 1.0m, @ 59-62, 0.8m.
74.3	S			PK	50.9	B45					1	-	0.1			0.5						20	35282	12/3	BLACK MINOR GRAPHITIC, ARG LOST CORE @ 62-65, 0.2m, @ 65-68, 0.2m, @ 68-71, 0.2m, @ 71-74.3, 0.4m. LOCALLY BROKEN BLOCKY. GRAB SAMPLE.



Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl #	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt					
75.0	M	VEG	BED	BE	-	50.9n	B	40			10	-	-		0.5							90	35283	0.7	QTZ VEIN @ 74.45-74.55
79.9							B	45			1	-	-		0.5							80	35284	4.9	GRAB SAMPLE
81.5										5	-	-		1								70	35285	1.6	LOCALIZED QTZ+PY FLOODING
83.0							B	50			1	-	-		0.5							90	35286	1.5	BLACK ARGILLITE
84.5						GY SOLI 50	V	60			3	-	-		0.5							70	35287	1.5	MEDIUM GRAIN, QTZ+PY VEINLETS PRESENT
86.0			CNT							10	-	-		1								70	35288	1.5	QTZ FLOODING @ 84.5-84.58-84.9-85.0
87.5	D		BED	BE	-	50.9n				1	-	-		0.1								50	35289	1.5	BLACK GAP ARGILLITE, LOCALLY BROKEN BLOCKY.
89.0	M									10	-	-		1								95	35290	1.5	QTZ+PY VEIN @ 88.0 TO 88.15
90.5							V	60			3	-	-		0.5							80	35291	1.5	LOCALLY BROKEN, QTZ VEINLETS PRESENT (WITH PY)
92.0							F	15			1	-	-		0.1							75	35292	1.5	BROKEN @ 91.1-91.30, FAULT GOUGE @ 90.8-90.9, 15% LCA
93.5			CNT	GY SOLI						15	-	0.1		0.5								100	35293	1.5	MEDIUM TO DARK GRAY QTZ+PY FLOODING @ 93.1-93.35
95.0										5	-	0.1		0.5								100	35294	1.5	LOCALIZED QTZ VEINLETS
96.5										5	-	0.1		0.5								100	35295	1.5	SAME AS 95
98.0										2	-	-		0.5									35296	1.5	FROM 96.5 TO 100.0 BLACK, MINOR ECLATHITE, ACC.
99.5										2	-	-		0.5								100	35297	1.5	1-5% QTZ+PY+ANK VEINLETS LOCALIZED PY VEINLETS
101.0			BED				V	45			2	-	-		0.5							100	35298	1.5	





Dist	Rock Description						Structure			Alteration Parameters (%)											RQ	Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt				
102.5	M	VFG	BED	AK	-	5a,gn	B	60		2	-	-		0.1							100	35299	1.5	
104.0							V	45		2	-	-		0.1							100	35300	1.5	
105.5										1	-	-		0.1							100	35301	1.5	
107.0							B	40		1	-	-		0.1							100	35302	1.5	
108.5										2	-	-		0.5							100	35303	1.5	
110.0							V	45		2	-	-		0.5							100	35304	1.5	
111.5							B	45		2	-	-		0.5							100	35305	1.5	
113.0										1	-	-		0.5							100	35306	1.5	
114.5							B	40		3	-	-		0.5							100	35307	1.5	QTZ/PY VEIN @ 114.2-114.3
116.0			COT							2	-	-		0.5							100	35308	1.5	
117.5							V	15		3	-	-		0.5							100	35309	1.5	QTZ/PY VEIN @ 116.25, 5cm wide
119.0										1	-	-		0.5							100	35310	1.5	
120.5							V	25		3	-	-		0.5							100	35311	1.5	QTZ/PY VEIN @ 119.8-119.9
122.0										1	-	-		0.5							100	35312	1.5	
123.5							V	30		1	-	-		1							100	35313	1.5	
124.0										0.5	-	-		0.1							80		0.5	BROKEN CORE @ 124.4-124.5
124.5						LC																	0.5	
125.0			BED			5a,gn	B	30		0.5	-	-		0.1							100	35314	0.5	SAMPLE 124.0-124.5 AND 124.5-125
126.5										0.5	-	-		0.1							90	35315	1.5	



Dist	Rock Description						Structure			Alteration Parameters (%)													RQ	Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt						
128.0	M	VFG	BED BK	-	Sagn					1	-	-		0.5							100	35316	1.5			
131					GY SER	SS	B	40		1	-	-		0.1							100	35317	3.0	GRAB SAMPLE MED TO DARK GR		
131.5										10	-	-		5							100	35318	0.5	QTZ + PY VEIN @ 131.2-131.35		
141.0							B	45		1	-	-		0.5							100	35319	9.5	MED TO DARK GREY ARGILLITE GRAB SAMPLE		
142.5							V	40		15	-	-		1							80	35320	1.5	QTZ + PY VEINS @ 141.7 TO 141.8, @ 142.2 - 142.3		
144.6							B	40		1	-	-		0.5							100	35321	2.1			
146.3			CoT							10	-	-		1							95	35322	1.8	QTZ + PY VEINS @ 144.8-144.9 (FLOODING) @ 145.8-146.1		
156.4			BEN				B	50		2	-	0.5		0.5							95	35323	10.1	GRAB SAMPLE		
156.8							V	50		20	-	3		2							100	35324	0.5	QTZ / ANK / PY VEIN @ 156.55 TO 156.66.		
169.7							V	30		2	-	-		0.1							80	35325	12.5	MED TO DARK GRAY, NARROW QTZ VEINS LOCALIZED, HIGHLY BROKEN @ 162.5-163.8. GRAB SAMPLE		
171.5	M	VFG	FOL BK	-	Sagn					2	-	-		0.5							100	35326	1.8	FROM 169.7 TO 189.2 DARK GREY TO BLACK ARGILLITE		
173.0										5	-	-		1							100	35327	1.5	LOCALLY GRAPHITIC		
174.5							B	45		3	-	-		0.5							100	35328	1.5	NUMEROUS QTZ + ANK + PY VEINLETS AND LOCALIZED VEINS LOCALIZED CUBIC PY GR VEINLETS		
176.0							V	40		15	-	2		2							100	35329	1.5	QTZ + ANK + PY + CHL VEINS @ 174.65 TO 174.85, @ 175.3-175.4		
177.5							B	40		2	-	-		1							100	36330	1.5			



Dist	Rock Description						Structure			Alteration Parameters (%)											RQ	Sampl#	Wth	Comments	
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt					
179.0	M	JFG	FOL	BK	-	Sagn				1	-	-		0.5							100	35331	1.5		
180.5										10	-	2		1							100	35332	11.5	QTZ + ANK + PY VEINS @ 180.05 TO 180.25	
187.7							N	25		1	-	-		0.1							100	35333	7.2	GRAB SAMPLE	
189.2							N	20		20	-	2		1							100	35334	1.5	QTZ + ANK + PY VEINS @ 189.1-189.2	
																									CHLORITIC IRON FORMATION (189.2 TO 294.5)
																									- CHLORITIZED ARGILLITE/SILTSTONE (75%) WITH MAGNETITE AGES (15%) AND TUFF AGES (10%)
																									- LOCALIZED STOCKWORK OF TUFF VEINLETS AND PY.
																									- NARROW QTZ + ANK + PY VEINS PRESENT
191.0	M	UFG	BFD	GG	CHL	FECHL	B	35		3	-	-		0.5						2	100	35335	11.5	QTZ + TUFF + PY VEINS	
192.5							B	25		2	-	-		1							30	100	35336	1.5	SAME AS 191.0
194.0										5	-	-		1							10	100	35337	1.5	SAME AS 191.0
210.2							B	40		2	-	-		0.5							10	100	35338	15.8	GRAB SAMPLE
211.5										5	-	0.5		0.5							1	100	35339	1.3	QTZ + ANK VEINLETS PRESENT
213.0										10	-	0.5		0.5							1	100	35340	1.5	SAME AS 211.5
214.5							B	40		10	-	1		0.5							1	100	35341	11.5	SAME AS 211.5
227.0							B	45		3	-	-		0.5							5	95	35342	12.5	GRAB SAMPLE



Dist	Rock Description						Structure			Alteration Parameters (%)													Wth	Comments	
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt	RQ	Sampl#			
228.5	M	VFG	BED	GG	-	1PCHL	B	30			3	-	-		1						1	100	35343	1.5	QTZ + PY VEINLETS ALONG INTERVAL
230.0							B	35			5	-	-		2						2	100	35344	1.5	QTZ + PY VEIN @ 228.5-230.05 PY VEINLETS PRESENT ALONG INTERVAL
233.9							B	50			2	-	-		0.5						25	100	35345	3.9	GRAB SAMPLE
235.4											0.5	-	-		1						50	100	35346	7.5	PY VEINLETS @ 235.6-235.75
236.4							B	15			1	-	-		12	3					50	100	35347	1.0	PY + PO VEIN @ 235.80 TO 236.05
247.2							B	30			2	-	0.5		0.5						30	100	35348	10.8	GRAB SAMPLE
248.8							B	15			5	-	0.5		2						30	100	35349	1.6	QTZ + PY + CHL FLOODING NOTED
253.5							B	35			1	-	-		0.5						20	100	35350	4.7	GRAB SAMPLE
254.1							B	10			5	-	-		2						25	100	35351	0.6	PY VEINLETS PRESENT.
260							B	20			1	-	-		0.5						30	100	35352	5.9	GLAYS SAMPLE
261.1							B	30			1	-	-		0.1						50	100	35353	1.1	
261.8											25	-	2		1						10	100	35354	0.7	QTZ + ANK VEIN @ 261.25 TO 261.45
263.0							B	40			1	-	-		0.5						20	100	35355	1.2	
264.5											0.5	-	-		0.1						1	100	35356	1.5	
266.0							V	30			10	-	1		1						2	100	35357	1.5	QTZ + ANK + PY FLOODING ALONG INTERVAL
267.5							V	50			1	-	-		0.5						1	100	35358	1.5	
269.0							V	35			1	-	-		0.5						-	100	35359	1.5	IVF BEDS @ 267.55-267.75 @ 268.05 TO 268.75 @ 268.80-268.9





Dist	Rock Description						Structure				Alteration Parameters (%)											Wth	Comments			
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt	RQ			Sampl#		
270.5	M	VFG	CoT	GG	CHL	IFCHL					5	1	1		0.5						-	100	35360	1.5		
272.0											8	-	1		0.5							-	100	35361	1.5	
273.5							B35				8	-	2		1				0.1	3	100	35362	1.5		AsPy + PY IN NARROW BEDS BEDS.	
275.0							B45				10	-	2		1						3	100	35363	1.5		
276.5							V30				5	-	3		0.5						10	100	35364	1.5		
278.0							B15				5	1	1		0.5						5	100	35365	1.5		
279.5							V20				5	-	1		1						-	100	35366	1.5		
281.0							V30				2	-	-		0.5						5	100	35367	1.5		
282.5							V35				2	-	-		0.5						-	100	35368	1.5	FROM 281.0 TO 294.5 MAINLY CHL SEDIMENTS. LOW MAGNETITE	
284.0											2	-	-		0.5						-	100	35369	1.5		
285.5							B30				10	-	2		1						-	100	35370	1.5	QTZ + PY ± ANK VENULETS AND FLOODING ALONG INTERVAL	
287.0							B40				2	-	1		0.5						2	100	35371	1.5		
288.5							B50				5	-	1		1						-	100	35372	1.5	PY BEDS @ 287.20 TO 287.25	
290.0			CoT								2	-	-		10						-	100	35373	1.5	PY BEDS @ 289.2 TO 289.9	
291.5							B40				3	-	-		1						-	100	35374	1.5	90% PALE GREEN TUFF BEDS	
293.0			BED				B45				2	-	-		1						-	100	35375	1.5		
294.5							B35				4	-	0.5		2						0.1	100	35376	1.5		



Dist	Rock Description					Structure				Alteration Parameters (%)																
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank		%	Py	Po	Cpy	Sph	Asp	Mt	RO	Sampl#	Wth	Comments	
																										MINERALIZED ZONE (294.5 TO 319.7) QTZ ± ANK VEINS/FLOODING (FROM 5 TO 80%), UNIT SITUATED BETWEEN THE IFCHL AND A GREY TO BLACK ARGILLITE PY (1 TO 12%) + ASPY (0.5-8%) MAINLY PRESENT IN THE QTZ VEINS/FLOODING, BUT ALSO IN THE MATRIX, LOCALLY SEMI-MASSIVE SER + CHL ALTERATION. CHL LOCALLY ASSOCIATED WITH QTZ IN STRIKERS, PY AND ASPY VARY FROM FINE TO COARSE GRAINED
296.0	M	VEG	BEDGY	SER1	5a	B30				5	-	0.5			10					3		100	35377	1.5	PY + ASPY MAINLY @ 295.8-296.0	
297.5										5	-	0.5			10					2		100	35378	1.5		
299.0							B30			3	-	-			7					2		100	35379	1.5	PY + ASPY MAINLY @ 298.85-299.0	
300.5						SER2				15	-	2			10					8		100	35380	1.5	ASPY SEEMS TO REPLACE THE PY. EUBEDRAL ASPY.	
302.0										10	-	1			12					8		100	35381	1.5		
303.5						SER3				10	-	1			8					5		100	35382	1.5	PY + ASPY MAINLY @ 302.0 TO 302.40 302.40 TO 303.5 SERICIZED ARGILLITE	
305.0	M	VEG	HOM	WH	SER2	QV				60	-	5			10					5		100	35383	1.5	WHITE TO GREYISH QTZ/ANK/ PY/ASPY VEINS/FLOODING.	
306.5										70	-	5			10					5		100	35384	1.5		
308.0										60	-	5			8					5		100	35385	1.5		



Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt					
309.5	M	VFG	BED	GY	SER	SA	B	25			20	-	2		12				8		100	35386	1.5	BACK TO SERICITIZED ARGILLITE	
311.0							B	20			40	-	3		10				5		100	35387	1.5	QTZ MAINLY @ 310.8-311.0	
312.5	M	VFG	HOM	WH	-	QU					75	-	2		10				8		100	35388	1.5	WHITE-GRAY QTZ/PY/ASPY VENE	
313.0	M	VFG	BED	GY	SER	SA	V	20			20	-	1		5				3		100	35389	1.5	QTZ/ANKE/PY/ASPY VENE 312.85-313.65	
315.5	M	VFG	HOM	WH	-	QU					80	-	2		5				2		100	35390	1.5	QTZ FLOODING + SERICITE	
317.0											70	-	2		3				1		100	35391	1.5	QTZ FLOODING + SERICITE	
318.5											60	-	2		1				0.1		100	35392	1.5	SAME AS 317.0	
319.7											50	-	1		0.5				-		100	35393	1.2	SAME AS 317.0	
																									ARGILLITE (319.7 TO 401.0) - MEDIUM GRAY TO BLACK - LOCALLY GRAPHITIC - TEXTURE: BEDDED TO FOLIATED - SER + ANK ± CHL ALTERATION - QTZ + ANK ± PY ± CHL VEINLETS FLOODING PRESENT - PY: CUBIC IN MATRIX/VEINS TO THIN VEINLETS BETWEEN BEDS
321.0	M	VFG	COT	GY	SER	SA	V	20			20	-	-		1				0.1		100	35394	1.3	QTZ EXES AND FLOODING. DARK GRAY (METALLIC) ARGILLITE	
322.0			FOL								1	-	-		2				0.5		100	35395	1.0	PY + ASPY IN MATRIX HIGHLY GRAPHITIC @ 322.55-322.5	
323.5											20	-	-		1				0.1		95	35396	1.5	QTZ + ANK VEINS @ 322.05-322.15 @ 322.35-322.50	



Dist	Rock Description						Structure			Alteration Parameters (%)													RQ	Sampl#	Wth	Comments		
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt								
325.0	M	VFG	FOL	GY	S&B	SG	V	30			1	-	-											100	35397	1.5	NO GRAPHITE, MEDIUM GRAY	
326.5											1	-	-		1									100	35398	1.5		
328.0											1	-	-		0.5									100	35399	1.5		
329.5					S&B						3	-	-		2									100	35400	1.5	QTZ FLOODING ALONG INTERVAL	
331.0							B	30			2	-	-		1									100	35401	1.5		
332.5							B	35			3	-	0.5		1									100	35402	1.5	QTZ + ANK + PY FLOODING @ 332.0 TO 332.30.	
334.0											10	-	0.5		0.5									100	35403	1.5	QTZ + ANK FLOODING ALONG INTERVAL	
335.5							B	25			1	-	-		0.5									100	35404	1.5		
337.0											5	-	-		0.1									100	35405	1.5	SAME AS 334.0	
350.0							B	30			1	-	-		0.1									100	35406	13.0	FROM 337.0 TO	
362.0											1	-	-		0.1									100	35407	12.0	- MEDIUM TO DARK GREY ARGILLIC ALTERATION - MINOR TO MODERATE SERPENTINIZATION	
374.0							B	25			1	-	-		0.1									100	35408	12.0	- MINOR PV + QTZ, GRAB SAMPLE - LOCALIZED GLOW ACRE SECTIONS	
386.0							B	30	B	20	1	-	-		0.1									100	35409	12.0		
401.0											1	-	-		0.1									100	35410	15.0		
401.0																												EOT
																												All tests are acid tests Casing pulled, but 19m RW. 16m NW left in hole.

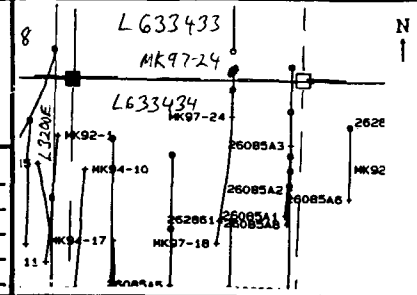








HOLE #: 104 NORTHING: 19785 EASTING: 3500 ELVN: 3050 LENGTH: 139.2  
 TWP: Nasworthy Drilled by: Bradley Logged by: R. Barber Start: 24/02/97  
 Claim: L633433, L633434 Core Stored: Timmins Casing/Size: 104m BW, 53m NW Finish: 25/02/97



Dist	Azim	Dip	Dist	Azim	Dip	Dist	Azim	Dip	Dist	Azim	Dip
0	180	-50									
107	180	-60									
137	180	-62									

Purpose/Results: Test possible down-plunge extension of gold mineralization in 86-AR. Hole stopped due to excessive steepening. 17 samples

Dist	Rock Description						Structure				Alteration Parameters										(*) No significant Assays		Comments				
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank		%	Py	Po	Cpy	Sph	Asp	Mt	RQ		Sampl#	Wth		
0																										0-104 Casing	
104						CAS																				104-139.2 Carbonaceous Argillite Fg-aphanitic, mod-dk gr, locy graphitic stringy fol'n rock. Mt - mod sericite throughout. Tr-matrix mg disc. loc. min qtz string. Very broken near top, much lost core. Fol'n locy stringy conc'd (S+Z patterns) Fol'n varied 45°-0° TCA.	
108.6	B	VF	RUB	GY	SER	5a																	30	AX35920		104-107 1.1m lost core	
109.6	"		"																				70	921		107-110 0.6m "	
111.3	SS		SHD				E0	F	4.5	5													70	922			
112.3	"		"																					80	923		109.6-111.3 Wk qtz string conc'd 11 Fol'n 45°-0°
																										113-116 0.7m lost core	
																										116-118.4 0.6m "	
																										120-127.4 Highly conc'd sub-11 TCA secondary fol'n is axial plane at core'n	

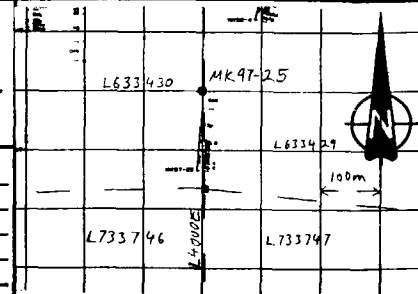


Dist	Rock Description						Structure			Alteration Parameters (%)													RQ	Sampl#	Wth	Comments		
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank		%	PY	Po	Cpy	Sph	Asp	Mt							
124.25	S	VF	SHD	GY	SER1	5a					1															AK35924		(ie. v. s. n. c. coverage) @ 25-90°
125.25					SCL1																				70	925	JCA	
126.1					CHL					5					5										30	926	- 5% by diss py in slightly graphitic	
127.6					SCL1					7															7m	927		
128						LC																			0			
128.4	M	VF	SHD	GY	SER	AV					60				.5										100	928	Shear/400 gr 128.1-128.35, 2%	
129.5					RED	GY					1															929	some inclusions	
131																										930		
132																										931	Z-even in	
132-9					SHD						30				.5	.5										932	- SA'd & slightly contorted gtz-stgr zone	
133-7					RED																					933	min diss py, po	
134.2					SHD	SER1					20				.1	.1										934	- wk shear veining	
135.2					RED																					935		
140											.5				.5										70	936	137-139.2 Fault Zone? Gravelly & rubble core	
																												140.0 EOH
																												Hole stopped due to steepening of hole, probably in o/b.
																												All BW casing pulled. NW casing broke in 1/6, 16 m left in hole.
																												Drill moved ahead 30m to MK 97-18 to test same target.
																												All tests are acid tests.



HOLE #: ~~2010~~ NORTHING: 2300S EASTING: 4000E ELVN: 3050 LENGTH: 201.0

TWP: NOSE WORTHY Claim: L633430 Drilled by: BRADLEY Core Stored: TIMMINUS Logged by: ERIC GENEAU Casing/Size: 45m BW, NW Start: 24 FEB 97 Finish: 26 FEB 97



Dist	Azim	Dip	Dist	Azim	Dip	Dist	Azim	Dip	Dist	Azim	Dip
0	180	-50									
90	186	-48.5									
120	-	-50	use 185 Az								
180	184	-44.5									

Purpose/Results: Test IP anomaly to southeast of Area.  
68 samples mainly Qtz-eye gwt w. conglomerate & arg. interbeds.

Rock Description Structure Alteration Parameters (%) Veins at 131.9-132.3, 150.0-150.9 Zone at 165.8-175 may explain IP anomaly Highest Au value

Dist	Com	Gr	Text	Co	Alt	Namel	B	A1	F	A2	Qtz	Cal	Ank		Py	Po	Cpy	Sph	Asp	Mt	RQ	Sampl#	Wth	Comments		
45.0						CAS																			QUARTZ-EYES GREYWACKE (45.0 TO 201.0 (EOH)) LGTH TO MEDIUM GREY COLOR MAINLY GREYWACKE, LOCALLY INTERBEDDED WITH SILTSTONE. MODERATE TO INTENSE SERICITIC ALTERATION, ALSO WITH ANK + CHL ALTERATION, SMALL QTZ EYES NOTED. SMALL BEDS OF ARGILLINE PRESENT. BEDDING AND FOLIATION GENERALLY @ 20-40° ECA. CRENULATION AND OTHER STRUCTURAL FEATURE NOT WELL DEVELOPPED. MINED IF SIGNIFICANT. FEW QTZ VEINLETS/VEINS FEW PY, AND WHEN PRESENT FOLLOW FOLIATION DIRECTION.	
50.0	B	FG	FOL	GY	SAND	Sg	B20				1	-	-		0.1							20	35411	S.1	HIGHLY BROKEN. NO QTZ VEIN, PY GRAB SAMPLE	
51.5											3	-	-		0.5								50	35412	1.5	QTZ+ANK+PY DEW @ 50.85 TO 51.1





Dist	Rock Description						Structure			Alteration Parameters (%)											RQ	Sampl#	Wth	Comments
	Com	GrS	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt				
52.2	M	FG	CoT	4Y	SER2	5g				10	-	1									80	35413	1.5	QTZ + ANK + PY FLOODING @ 51.8 TO 52.0.
53.7			FOL				B	30		0.5	-	-		0.1							100	35414	1.5	
61.0							B	30		0.5	-	-		0.1							100	35415	7.3	GRAB SAMPLE
62.5					SER3		B	40		5	-	1		0.5							90	35416	1.5	BROKEN QTZ/ANK VEIN @ 61.55 - 61.60
64.0							B	50		3	-	0.5		0.1							90	35417	1.5	QTZ/ANK VEINLETS @ 63.20, 20° LCA, @ 63.85, 15° LCA.
66.0										10	-	2		0.5							40	35418	1.6	QTZ/ANK VEIN @ 64.45 TO 65.15. LAST CORE @ 65.40 TO 65.80.
67.5							B	10		2	-	0.5		0.1							100	35419	1.5	QTZ/ANK VEINLET @ 66.60.
78.0							B	20		0.5	-	-		0.1							100	35420	10.5	GRAB SAMPLE
87.5							B	35		0.5	-	-		0.1							95	35421	9.5	GRAB SAMPLE
89.0							B	20		0.5	-	-		0.1							100	35422	1.5	MORE ARGILLITE + PY BEDS
102.0							B	20		0.1	-	-		0.1							95	35423	13.0	ARGILLITE BEDS @ 97.5-97.9 GRAB SAMPLE
103.5							B	35		1	-	-		0.5							100	35424	1.5	QTZ + PY VEINLETS ALONG INTERVAL
114.0							B	20		0.1	-	-		0.1							95	35425	10.5	GRAB SAMPLE
118.7							V	15		0.1	-	-		0.1							100	35426	4.7	GRAB SAMPLE
120.2							B	20		1	-	0.5		0.1							100	35427	1.5	
120.8							V	20		10	-	1		0.1							90	35428	0.0	QTZ + ANK + PY VEIN @ 120.40 TO 120.47.



Dist	Rock Description						Structure			Alteration Parameters (%)											RQ	Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	GA				
122.1	M	VEG	FOL	GY	SFL2	5g				0.5	-	-		0.1							100	35429	1.3	
127.4							B	30		0.5	-	-		0.1							95	35430	5.3	GRAB SAMPLE
128.9						5g,a	B	15		0.5	-	-		0.5							100	35431	1.5	FROM 127.4 TO 131.9 GREWACKE WITH A LOT OF ARGILLITE/SILTSTONE BEDS, CLASTS
129.9						5g,c				0.5	-	-		0.1							100	35432	1.0	NOTED @ 129.0 TO 130.2 THEY ARE FLOWATED AND MAINLY ARGILLIC.
130.8						5g,c				0.5	-	-		0.1							100	35433	0.9	
131.4	B					5g,a				8	-	2		1							60	35434	0.6	QTZ + ANK + PY VEINS @ 130.9 TO 131.0. BROKEN CORE.
131.9	M									0.5	-	-		0.1							100	35435	0.5	
132.3	B	VEG	HOM	WH	SER1	QV				50	-	5		3							30	35436	0.4	QTZ + ANK + PY VEIN. BROKEN. WHITE TO GREYISH WHITE
133.5	M		FOL			5g				0.1	-	-		0.1							100	35437	1.2	
135.0							B	10		0.1	-	-		0.1							100	35438	1.5	
136.3							B	10		0.1	-	-		0.1							100	35439	1.3	
136.6	B									30	-	2		3							40	35440	0.3	BROKEN QTZ + ANK + PY VEINLET
138.0	M			GG	SCL		V	30		0.5	-	-		0.1							100	35441	1.4	GREY-GREEN, SER-CHL ALTERATION
149.0							B	25		0.5	-	-		0.1							100	35442	1.0	GRAB SAMPLE
150.0							V	30		0.5	-	-		0.1							100	35443	1.0	
150.4										10	-	1		1				0.1	0.1		100	35444	0.4	QTZ + ANK + PY + SPH + GA VEINLETS PRESENT
150.9	M	VEG	HOM	WH	SER1	QV	V	25		60	-	3		1				0.3	0.1	100	35445	0.5	QTZ + ANK + PY + SPH + GA VEIN	
152.0				GY		5g				0.5	-	-		0.1							100	35446	1.1	



Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments	
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt						
153.0	M	VFG	BED	GY	SER	Sg	B	40			0.5	-	-		0.1								100	35447	1.0	
154.5							B	45			0.5	-	-		0.1								100	35448	1.5	FROM 153.0 TO 162.0. LOCALIZED
156.0							B	50			2	-	-		0.5								100	35449	1.5	FLOWGATED VOLCANIC CLASTS FOUND IN MATRIX
157.5											0.5	-	-		0.1								100	35450	1.5	
159.0							B	35			0.5	-	-		0.1								100	35451	1.5	
160.5											1	-	-		0.1								100	35452	1.5	LIGHT TO MEDIUM GREY
162.0							B	25			0.5	-	-		0.1								100	35453	1.5	"
163.5											0.5	-	-		0.1								100	35454	1.5	"
165.0											0.5	-	-		0.5								100	35455	1.5	"
165.8											0.5	-	-		0.5								100	35456	0.8	"
166.7	B	VFG	COT	WH	-	QV					55	-	5		3			0.5	0.1				30	35457	0.9	QTZ + ANK + PY + ASPH + ASPY (TRACE) VEIN CONTACTED BLOCK/BLOCKS WHITE TO GREYISH WHITE.
167.85	M	VFG	BED	GY	SER	Sg	B	20			2	-	-		0.5								100	35458	1.5	FROM 166.7 TO 201.0 COLOR DARK GREY.
168.3	B	VFG	COT	WH	-	QV					50	-	5		2			0.1					100	35459	0.45	QTZ + ANK + PY + ASPY (TRACE) VEIN. BROKEN/BLOCKY.
169.3	M	VFG	BED	GY	SER	Sg					0.5	-	-		0.1								100	35460	1.0	
170.1							B	10			0.5	-	-		1								100	35461	0.8	
170.6	M	VFG	COT	WH	-	QV					45	-	5		2			0.1					100	35462	0.5	QTZ + ANK + PY + ASPY (TR) VEINS
172.0	M	VFG	BED	GY	SER	Sg					0.5	-	-		0.1								100	35463	1.4	

















Dist	Rock Description						Structure			Alteration Parameters (%)											RQ	Sampl #	Wth	Comments				
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt								
65.9	M	FC	FRAG	GI	SCL2	4dt					10	5											100	AX37518		Irreg RA stgr zone		
67.7																3									599			
68									√ 40		30														600			
69.5					GG									.5											601			
71					GY	SER3								.5											602		71-74.2 Highly bleached, serrated	
72.4														.1											603		Fragmental Qtz-ank vein & stgrs	
73.5										10				.1											604			
73.8						QV				50	5			1											605			
74.2			SHD			4dt								1	1										606			
75.5			FRAG		SCL2									.5	.5										607			
77					SCL2					1	2			1	.5										608			
78					SCL2					1	3			1	1										609			
79					SER3					5				1	5										610		Highly bleached, serrated, hydrous py, px	
80.05	M	ML	BRX	YL	SUL3	MIN				15				80											611			
80.9	S	FM	SHD	GY	CHL3		√	50		10				5	.5										612		79-84.9 Mineralized Zone	
81.85	M		FRAG		SER2									30	1										613			
83.3														15	5											614		10% to loc'y semi-massive
84.9					SCL2					.5				10	2										615		py/px stgrs in ltgy, serrated	
86.1		F			SER2	4dt								3											616		Tuff / Lapilli - tuff. Also some	
86.9										5				5											617		fine sulphides, esp py. Hairline to	
88.4														1	1										618		msv black chl stgrs near top of	
89.4					SCL2									3											619		unit & at 78-79. chlt py stgrs	
90.2										1				.5											620		11 fol'n. Min gtz stgrs w/loc sph.	
91.45										2				.5											621		79-80.05 Nearly msv py, f-mg calcite	
91.9										4				7											622		py forms matrix to rounded	
93.2														5									60	623		clasts of resin gtz giving overall appearance of breccia. In many clasts, py seems to form embayments in gtz.		
																												84.9-101.95 Feldic Tuff / Lapilli - Tuff
																												Much as 40.1-79, but w/loc msv units w/ white carb speckling loc sects of stgr py/px as 79-84.9



Dist	Rock Description						Structure				Alteration Parameters (%)											Sampl #	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt	RQ			
93.5	S	EC	FRAG	GP	SCL2	4dt	F	45		15				5							80	AX 37624		86.1-86.4 folia in msy unit abruptly stops at py-filled fract where folia in main unit is locy much shallower angle msy unit ad fract <sup>+</sup> py stgr folia main unit
95	M	"	"	"	"	"								5	5						100	625		
95.6		F	"	"	"	4dt								5								626		
96.3		"	"	"	"	"				20				1	.5							627		Highly folded gtz stgr w. mm four 1-2cm wide.
97.8		FM	"	"	"	"								1	.5							628		
99.3		"	"	"	"	"								5	.5							629		- loc gtz granis.
100.4		"	"	"	"	"					3			1								630		
101.95		"	"	"	"	"				1	2			1								631		
103.5	B	F	RUB			Sa,gr								2							50	632		101.95-110 Graphitic Argillite
104						LC															0			
105.5	B	F	RUB	BK		GF2								5							0	633		Black graphitic bands interbedded w. lt. gy silty bands. Very broken throughout, with loc ssils graphitic
106.2	G	"	"	"		"								5							0	634		
107						LC															0			
107.9	B	F	RUB	GY	CC1	Sa,gr								5							30	635		gauge 5'-diss t stgr py
109.3	SS	"	BED	"	"	"				5				5							50	636		- 8cm gauge @ 107.9-107.98
109.6	M	F	SHD	GY	CC1	Sa,gr	V	45		30				10							100	637		WH BL w. gy "spongy" py invading along fract + in wall rock. Min F-ty red-bn sph.
110			"	"	"	"								5							60	638		





Dist	Rock Description						Structure				Alteration Parameters (%)										RQ	Sampl#	Wth	Comments					
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank		%	Py	Po	Cpy	Sph	Asp					Mt				
110.3	S	F	SHD	GY	SER2	4dt										10							60	AX37639		110-130.95 False Tuff/Lapilli-			
111.5	M		SHD		"					.5					5	1							100	640		Tuff			
113			FRAG		SER2										15	1								641					
114			MSV												.5	1									642		Much as unit from 40.1-79		
118.2			"				F55			.1	.1				.5										643		though initially fq, fairly massive,		
119.2			FRAG												.5										644		with little obvious bedding or		
120.2			SHD		SER3		V45			35		2			6	.1		.1							645		lapilli frags. Tr=mic dia py, px		
121.2		FC	FRAG		SCL2	4dt									1										646		throughout.		
126.4										1	1				.5	.1									647				
127.4															.5											648			
128.4	S	FM		TN	SER2	4dt									.5								80		649				
129.5															.1											650		119.2-121.2 Qtz-ank-tour vein	
130.95										1					.1											651		w. py'd wallrock. Strongly sheared	
132	M	FM		GN	CHL3	3lt				.5	.1				.1	.1							100		652		z. dte w. abundant bluish		
139										.5	.5				.1											653		gy serres. 5% coarse bh four	
140										2					.5											654		knobs in vein. Tr sph, po in	
																												vein. Most py is in wallrock,	
																												but also in fracts in vein & vein	
																												contacts. "Spongy" py	
																													120.2-127.4 Definite changes
																													in unit to more clastic, darker
																													lapilli-tuff
																													127.4-130.95 Buff serried unit
																													Tr=mic py along Bolin
																													130.95-169.45 Intermediate Tuff
																													Same fragmental textures as
																													prev units but strongly chilled.
																													Very little serres. Mic 4% qtz-
																													cal stages. Loc veins.
																													114-115.6 split by mistake AX37150



Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments			
	Com	GrS	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank		%	Py	Po	Cpy	Sph	Asp	Mt							
140.3	M	FM	BRX	WH	CHL	QV	V	40		50					1								100	AX37655		Wh gv w. 5% wallrock inclusions		
141.3			FRAG	GN		3H					1				1									656				
142.25										1					1									657				
142.7			BRX	WH		QV				60					1	5								658		Rtz-cal vein brx w. 2% black		
143.7			FRAG	GY	SER										5	2								659		four		
144.8				GN	CHL										2	5								660		serried & min'd zone, lg disc py-po		
146.2															5									661				
147										4	1				5									662		wk gfc-cal vlet zone		
147.7							V	45		15					5									663				
148.7										1					5									664				
168.4										1					5	1								665		167.2-167.6 Gauge/Fault Zone		
168.45										1	2				5									666		3 gauge seams up to 7cm long @ 45-50 TCA		
																										158.7-161.6 wk-mod serried, stringy sh'd zone		
																										169.45-171.35 Felsic Lapilli-Tuff		
171	M	FG	FRAG	GY	SER2	4dH									5									667				
172.5															4										668			
174															5	5									669		Eq. lt gy mod serried w. wh. and speckling throughout. Black	
175															1	5									670		chl // foln. Mod. strongly fold	
176															1	1									671		loc gtz vlets + stgrs w/ "spongy"	
176.8						SER2									1	3									672		py-Tr = 5% typical of stgrs py-po Fragments stretched up to 10-11 py content generally increasing down hole. loc. 25-5mm gtz grains	
177.6	"	"	BRX	WH	SCL3	QV	V			75	10				4	1	-1	-1	-5						673		RAV w. 10% wallrock inclusions, wh- gy gtz & ank. Py as fine - v. coarse	
178.4			FRAG	GY	SER2	4dH				7	1				5	1									674		stgrs & knots 1% m-cg po in bands	
179.9										1					3	3										675		f. near inclusions Tr cap. sph. 1-2mm
181.2										.5					2	3										676		thick stgr of asp-po near 1/2 of vein
181.5															10	1										677		
182.3															5	1										678		
182.5																5										679		- highly fragmental texture







Dist	Rock Description						Structure		Alteration Parameters (%)											RQ	Sampl#	Wth	Comments				
	Com	GrS	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank		%	Py	Po	Cpy	Sph					Asp	Mt		
196	S	F	FRAG	GY	SER2	4dlt										1	.5						80	AK37693			
196.6																8	.1						70	694		ate-ank-py vein stub	
197.2			SHD													3							60	695			
198.4			BED		SCL2	5a.s										2							100	696		197.2-206.15 Carbonaceous	
199.4			"		CHL2	"										5							100	697		Argillite/Siltstone	
																										Alternating lt gy & bk beds //	
																										fol'n low graphite gouge or	
																										slips. Silty bands appear to trace	
																										and at 209.2-209.6 isolated	
																										lapilli frags occur. strongly fol'd	
																										massy, circumulated. Wispy fol' =	
																										cal stages // fol'n. 2-5% disc	
																										py	
200.8					CHL2	5a.s	F	55			.5	.5				2							70	698			
201.8											.5	.5				2							60	699		low graph gouge @ 199.5	
202.8											.5	.5				2							70	700			
203.25			SHD			QV	V	37			50		7			5							70	701		QV - py in vein. Drag fold near	
204.5	M		BED			5a.s					1	1											100	702		1/2 has axial planar cleavage @ 35° to	
205.85			"			"					1	1												703			
206.15		FC	BRX			QAV	V	30	F	45	40		10			10	8							704		Wh - pl gy qav at contact. 5% rounded cherts of lg py (nodular py?) within brx formed by peritect of qtz, Fe-mg carb. py & po.	
																										206.15 - 209 False Tuff / Lapilli-tuff.	
																										Much as 169.45 - 187.35. Highly silty/drc with disc of stgr pyrite throughout. Also seems to be between lapilli frags. Seem'd to strongly ant'd throughout.	
206.6	M	FC	FRAG	"	SER	4dlt										5	10						100	705		-rounded py frags seen vein @ 206.15	
207.3		FC				4dlt										2	5								706		-large lapilli frags
207.8		EM				4dlt										50	2								707		





Dist	Rock Description						Structure				Alteration Parameters (%)												Sampl#	Wth	Comments		
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank		%	Py	Po	Cpy	Sph	Asp	Mt	RQ					
208.8	M	F	FRAG	GY	SCL3	4dt					1	1			.5	5								AX3708			
209.7					SER3	4dt									1	5								709			
210.2															3	10								710		stgr py, 1% nodular py	
210.8										F 55	F 35				1	10								711		axes of ccrain @ 35° TCA	
211.75			MSV			4dt				2	1				.5	1								712			
212.8		FM	FRAG		SCL3										30	2								713		211.75-213.6 Highly Pyritic Zone	
213.6		"	"		"					J 50					30	2								714		F-mg cubic clustered stgr - like py	
214.9		F	"		SER3	4dt									1	5								715		-1% Ag gtz in matrix unit	
216.5		"	SAD			4dt									1	3								716		becoming highly sheared.	
218						4dt									1	15								717			
219						4dt	F 70			1	1				.5	2								718		Mercurian axial plane 35-40° TCA	
220.5		FM		GG	SCL3	5g									.5	1								719		ccrain's east plunging?	
242	S	"			SCL3	5g					.5	2			.5	.5								720			
242.9	M	F	SAD		"	"	C 55								1									721		219-243.3 Chloritic sediments	
243.3	"	WF	"	GY	SIL	CTZ	C 45			2					1									722			
																											Fg. mod-dk gg strongly ch'd loc calcific w. mg calcite knots 11 to 13% strongly ch'd - has gtz-calc stgr & lots Fairly homogenous unbedded greywacke/ tuffaceous sediments. Could also be matrix volcanics.
																											237.4-237.9 Fault Zone Very jumbled brx w some go sgr Wk'y serried. Intruded by cal stgr.
																											242.9-243.3 Contact Zone. vAg - Fg highly siliceous zone. Tr m- cg py. wk'y solids.



Dist	Rock Description						Structure				Alteration Parameters (%)											Sampl #	Wth	Comments		
	Com	GrS	Text	Co	Alt	Namel	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt	RQ					
244.3	M	FM	QFP	GP	SER3	4d, pp																	AV37 723	243.3-251.45	Qtz-Phyrric Dacite	
250.5					SER2																		724			
251.45					SCL1																		725		Fig. mid hard, lt-med gy. seric'd matrix. 5-10% .5-2 mm diam anhedral glassy Qtz phenos. Wh'y fol'd. to fg py along fol'n. May be a dyke, but contacts are ill f'd. Darker & less seric'd down hole.	
252.5	M	FM	SHD	GG	CCL	5g, g	V	60	F	45	15		5										726	251.45-258.35	Chloritic Sediments	
254																							727			
255																							728		As 219-243.3 5-10% Qtz eyes	
256.1																							729		Loc Qtz - kn tour stys & lts	
256.6			MSV	WH	-	QV				90				.5									730		Wh - lt gy Qtz w. 7% kn tour	
257.3				GY	CCL	5g, g								.1									731		following fract's in Qtz. Min fg des	
258.35														.1									732		py in tour	
259.3			SHD		SER3	4d, pp	F	50						.5	5								733			
260														.5	5								734			
261														.5									735	258.35-262.5	Qtz-Phyrric Dacite	
262.5					SCL3		V	20		2	5			.5									736			
263.5										.5	1			.5									737		As 243.3-251.45 but locy w.	
279.3										.5	5			.5									738		up to 10% .25-1mm fsp phenos	
280.3											1			.5									739		Locy seric - chl alt'd	
																									262.5-280.3	Mixed Dacite Tuffs
																										As prev. two units but intimately mixed. strongly seric'd/chl'd. Qtz - cal stys throughout. Loc'y appears seric - chl laminated.
																										Note Section from 219-280.3 may all be different parts of same unit, although sharp contacts are seen.







Dist	Rock Description						Structure				Alteration Parameters (%)												Sampl#	Wth	Comments		
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank		%	Py	Po	Cpy	Sph	Asp	Mt	RQ					
296.8	A	F	SHD	GY	SCL3	5s, g										-5								AX43293	292.75-303.35	Siltstone / Argillite	
297.8																-5								294			
299										10	5					2	-5							295		Eq, lt-mad gy, mad-strongly	
300.5			BED				B	55								-5								296		redd to variably ch'd 1-3%	
302			"													-5								297		.25-2 mm qtz eyes diss throughout	
303.35			BED													-5								298		locy well bedded, but mainly has only argillite streaks within lt gy siltstone. Min cal stgs 11 folia & crossing folia at 45° TCA.	
																										303.35-375.35	Argillite / Siltstone
																											VFg - Eq laminated, dk gy Min-1% disc. py. Min-1% cal stgs. Vwky - wky calcitic
304.55	M	F	SHD	GY	CHL2	5a				1	1				-5	5								299		309.7-317.2	Variably faulted section, locy very broken
305.7	"	VF	LAM			5a				2	5				-5									300			
311	S														-5								90	301			
311.9															-5								90	302			
312.4										30					-5								90	303		Qtz vlet 312.2-312.4, w. stgs.	
313.4	SS														-5								50	304			
321.8	SS	F	SHD												1								50	305		311-314	0-3m lost core.
322.85	S	VF	LAM												-5								100	306			
323.75										15	5				-5									307			
324.75										8					-5									308			
326	M		"							1	-5				1									309			
327	"		SHD							2	3				2								60	310			
327.7	B		BRX							20					1								20	311		Qtz - dol br zone 20% dol	
328.2	-	-	-	-		LC																	0	312		327.5-327.7 Chlorite gouge.	
329	S	VF	LAM	GY		5a	B	50							-5								50	313			
330															-5								100	314			
331															-5								100	315			
3321										5					1								"	315			









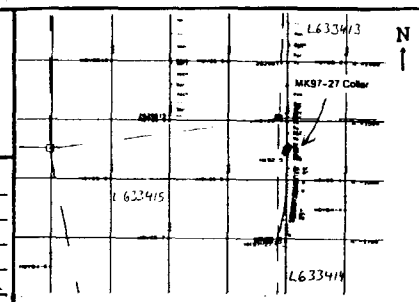
Dist	Rock Description						Structure				Alteration Parameters (%)											Wth	Comments		
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt	RQ			Sampl#	
																									377-377.35 Graphitic qtz-brx zone with 30% f-mg fctgr py. 11 folia & crossing folia 27. It tan ruggy dol. Py also loc'y vuggy. Min of black tour
																									378.4-379.4 3 qtz and v. lct loc'y 11 folia & folia = 45-0. May be same vein repeated. Also qtz string @ 80 TCA approx 11 secondary fractures (crack cleavage?) mineralized with po. Also of po in veins
																									379.4-379.95 only 4 m in sample uncertain where core was lost as entire run seems to be present.
																									379.95-380.3 QAV of po in fault & near inclusions in qtz.
376.03	M	VF	SHD	GV	SCL2	5a	F	70		3				.1										AX43337	
376.52				GN	CHL3									1	15										338
377				GV	SEB3					20				5	5										339
377.4	S	FM	BRX					RV		30				30											340
378.4	M	VF	SHD			5a				7	3			3	1										341
379.4										25				1	3										342
379.95								F	10					.5	2										343
380.3						QV		V	45	80				1	1										344
381.5						5a		F	55	1	.5			1	1										345
383			COT											1	2										346
384.5			"											1	2										347
385.6								F	0					1	5										348
386.6														2	.5										349
																									Secondary structure @ 80 TCA.







HOLE #:                      NORTHING: 1550.5 EASTING: 5000 ELVN: 3000 LENGTH:                       
 TWP: NOSEBORTHY Drilled by: BRADLEY Logged by: ERIC GENEAU Start: 26 FEB 97  
 Claim: L 633414 Core Stored: TIMMINS Casing/Size: 52m DV, NW Finish: 28 Feb 97



Dist	Azim	Dip	Dist	Azim	Dip	Dist	Azim	Dip	Dist	Azim	Dip
0	180	-55	277	196.6	-55.3						
60	178	-54									
120	185	-54									
180	188	-54									

Purpose/Results: TEST STRAIT 1624  
PHI SOUTH OF MK 92-5  
 NOTE: SAMPLES FROM 35479 TO 35500  
 AND FROM 37001 TO 128 151 samples

Rock Description						Structure				Alteration Parameters (*)														Wth	Comments	
Dist	Com	GrS	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank		Py	Po	Cpy	Sph	Asp	Mt	RQ	Sampl#				
51.80						CAS																				CAS
53.35	B	NFG	Hom	WA	-	QV					95	-	-		2	0.1						30	35479	0.45	Blacky/BROKEN WHITE QTZ + PY VEIN WITH GRAPHITE INCLUSION IN CRACKS	
																										ARGILLITE (52.25 TO 114.8) DARK GREY TO BLACK LOCALLY GRAPHITIC AND CARBONACEOUS, BROKEN/BLOCKY MASSIVE, HIGHLY FOLDED TEXTURE, QTZ + ANK I PY VEINETS PRESENT (1 TO 10%) BY PRES. OF 1% ILLITE + 1% CLAY GRAIN D. CAL FOUND IN SH. ILL. RESS. MIX OF ARG/GWK @ 107.7 TO 114.8
53.50	B	NFG	COT	BR	GRP	5a, gr					10	-	0.5		3							30	35480	1.25		
55.0						LC																				LC
67.0	B	NFG	COT	BR	GRP	5a, gr					7	-	0.5		3							50	35481	7.0	GRAB SAMPLE, LOST CORE C 63.7-64.0 C 66.7 TO 67.0	
69.1											1	-	-		2								20	35482	0.2	LOST CORE @ 67 TO 68.6





Dist	Rock Description						Structure				Alteration Parameters (%)													RQ	Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt							
70.5	B	NFG	COT	BK	GRD	Sa gn					35	-	2		3						50	35483	1.4	QTZ+ANK+PY VEINLETS CONTORTED			
72.0	m									20	-	2		2							75	35484	1.5	"			
73.5										10	-	1		1							90	35485	1.5	"			
74.5			BRX	GY	ANK	Sa				50	-	3		3							80	35486	1.0	QTZ+ANK+PY BRECCIA.			
75.2										40	-	2		1							80	35487	0.7	QTZ+ANK+PY BRECCIA. GREWACKE BED ALSO NOTED @ 74.75 TO 74.95			
76.35			STWK		CAR					20	-	2		2							100	35488	1.15	DARK GREY QTZ+ANK+PY STRINGS & PY ALSO IN MATRIX			
76.9			BRX		ANK					40	-	3		1							100	35489	0.55	QTZ+ANK+PY BRECCIA			
78.0			STWK	BK	CAR		U	10		15	-	2		1							100	35490	1.1	QTZ+ANK+PY STWK BLACK CO. MORE CARBONACEOUS			
79.1										15	-	2		1							100	35491	1.1	SAME AS 78.0			
80.4			BRX	GY	ANK					40	-	2		1							100	35492	1.3	QTZ+ANK+PY BRX. DARK GREY LOCALLY STWK			
81.5			COT							0.5	-	-		2							100	35493	1.1	MEDIUM TO DARK GREY ARG.			
82.6										0.5	-	-		0.5							100	35494	1.1	SAME AS 81.5			
84.0			BRX	BK	CAR					25	-	3		2							95	35495	1.4	BLACK. QTZ+ANK+PY BRX			
85.0			STWK	BK	CAR					10	-	2		2							100	35496	1.0	QTZ+ANK+PY STWK			
85.9										10	-	2		1							100	35497	0.9	SAME AS 85.0			
86.3										30	-	3		1							100	35498	0.4	QTZ+ANK+PY STWK (DENSE)			
87.8										10	-	2		2							100	35499	1.5	QTZ+ANK+PY STWK			



Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt					
89.0	M	UFG	STWK	BR	CAR	SA					5	-	0.5		1							100	35500	1.2	QTZ+ANK+PY STWK
90.3			BED	GY	ANK	SA	B	50			3	-	-		0.5							100	37001	1.3	QTZ EYES GIVE INTERBEDDED LIGHT TO MEDIUM GRAIN
91.5			STWK	BR	CAR	SA					3	-	-		0.5							100	37002	1.2	MINOR QTZ+PY STWK
92.5											3	-	-		0.5							100	37003	1.0	SAME AS 91.5
93.7			BRX	GY	ANK						40	-	3		1							100	37004	1.2	QTZ+ANK+PY BRX, LOCALLY COARSE GRAINS (GNEISS) HEMATITE SPECS NOTED
94.3			STWK	GY							20	-	2		0.5							90	37005	0.6	QTZ+ANK+PY STWK
94.9			BRX								15	-	1		1							70	37006	0.6	BRX WITH QTZ CLASTS AND CARBONACEOUS MATRIX
96.4			STWK								10	-	1		0.5							95	37007	1.5	QTZ+ANK+PY STWK, LOCALLY BRECCIATED
97.6			COT								5	-	-		0.5							100	37008	1.2	
98.2			HOM			SA					1	-	-		0.5							100	37009	0.6	QTZ EYES (GREENACKER BED)
99.7			COT			SA					10	-	1		1							100	37010	1.5	SAME AS 96.4
100.7			STWK				U	35			5	-	0.5		0.5							100	37011	1.0	DARK GRAY CARBONACEOUS WITH QTZ+PY STWK
101.9											5	-	0.5		0.5							100	37012	1.2	SAME AS 100.7
102.3			BRX								2	-	-		1							100	37013	0.4	BRX WITH QTZ CLASTS AND CARBONACEOUS MATRIX
103.0			STWK				U	30			5	-	0.5		0.5							100	37014	0.7	DARK GRAY, CARB WITH QTZ+ PY STWK
103.8			BRX								2	-	-									100	37015	0.8	SAME AS 103



Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments	
	Com	GrS	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt						
104.4	M	VEG	STWK	GY	CAR	5A					2	-	3		1							100	37016	1.1	DARK GRAY TO BLACK, CARB ARE. VEILULETS OF QTZ + PY. VEILULETS OF ANK NOTED	
106.0			BRX								5	-	2		1							100	37017	1.1	BRX WITH ARG CLASTS AND CARBONACEOUS MATRIX	
106.8											8	-	2		3							100	37018	0.8	BRX WITH ARG CLASTS AND CARB MATRIX. MORE PY, BEDS OR IW MATRIX	
107.2											20	-	2		2							100	37019	0.4	BRX WITH MORE QTZ FLOODING	
107.7					ANK1	5a, g					10	-	1		1							100	37020	0.5	BRX WITH LARGE GROWACKE CLASTS	
108.3			STWK			5g, a					10	-	1		1							100	37021	0.6	DARK GREY GROWACKE WITH STWK OF QTZ + HWK AND VEILULETS	
109.2			BRX								2	-	-		0.5							100	37022	0.9	BRX GROWACKE CLASTS WITH CARB MATRIX	
110.3			STWK		SER1						5	-	1		0.5							100	37023	1.1	GWF WITH A FIN STWK OF QTZ + ANK + PY VEILULETS. MEDIUM GRAY	
111.0					ANK1						10	-	1		1							100	37024	1.3	DARK GRAY GWF WITH STWK OF QTZ + ANK VEILULETS. LOCALLY BROWN	
112.8											15	-	1		0.5							100	37025	1.2	TOO. FROM 110.3 TO 114.8.	
113.5			BRX								20	-	2		1							100	37026	0.7	BRX WITH QTZ FLOODING	
114.8			STWK		SER1						5	-	1		1							100	37027	1.2		
																										QTZ EYES GROWACKE (114.8 TO 134.2) MEDIUM TO DARK GREY, LOCALLY GREENISH GREY MILKY SERICIT AND



Rock Description		Structure				Alteration Parameters (%)																				
Dist	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt	RQ	Sampl#	Wth	Comments		
																									ANKERITIC ALTERATION CLASTS LOCALLY NOTED IN MATRIX. QTZ + ANK + PY (SIN CLTS) FLOODING ALTERN	
116.3	M	PG	BED	GY	S&R	Sg					1	-	-	0.5							100	37028	1.5			
117.7							V30				1	-	-	0.5								100	37029	1.4		
119.1											1	-	-	0.5								100	37030	1.4		
120.6							V15				2	-	-	0.5								100	37031	1.5	BRLC 119.85-119.95	
122.0											1	-	-	0.5								100	37032	1.4	CLASTS NOTED IN MATRIX	
123.5			BRLC			SC					20	-	2	1								100	37033	1.5	FROM 122.0 TO 124.8 BRECCIATED CONGLOMERATE	
124.8											20	-	2	1								100	37034	1.3	POLYMICTIC CLASTS IN A GYLWKE MATRIX STRONG OF QTZ PRESENT	
125.7			BED			Sg	B25				2	-	-	1								100	37035	0.9	CLASTS NOTED IN MATRIX	
126.1			BRLC								15	-	2	2									100	37036	0.1	BRECCIATED WITH QTZ VEINLES
127.6			BED				V50				5	-	0.5	0.5								100	37037	1.5	QTZ VEINLES NOTED	
134.2							V30				2	-	0.5	0.5								100	37038	G16	CLASTS (RARE) NOTED, GRAIS SAMPLE	
																									CONGLOMERATE (134.2 TO 160.0) - POLYMICTIC CLASTS, ELONGATED - LOCALLY BRECCIATED - QTZ + PY STRINGERS PRESENTS IN CLASTS AND MATRIX - QTZ VES GRENACHE - QTZ FLOODING NOTED	





Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt					
135.7	M	CG	CLAS	FX	SR1	5c				2	-	-		1						100	37039	1.5	FROM 135.7 TO 144.7 SER + CHL MATRIX, CLASIS SER		
137.2										2	-	-		1						100	37040	1.5			
138.7										1	-	-		1						100	37041	1.5			
140.2										2	-	-		1						100	37042	1.5			
141.7									V20	2	-	-		1						100	37043	1.5			
143.2										1	-	-		0.5						100	37044	1.5			
144.7										2	-	-		1						100	37045	1.5			
145.9					SER2					1	-	-		0.5						100	37046	1.2	CHLORITIC MATRIX, SERICITIZED SEDIMENTS		
147.4										1	-	-		0.5						100	37047	1.5	SAME AS 145.9		
148.9										1	-	-		0.5						100	37048	1.5	SAME AS 145.9		
149.55										1	-	-		0.5						100	37049	0.65	SAME AS 145.9		
150.5			BED			5g				2	-	-		1						100	37050	0.95	GWK WITH LOCALIZED BEDS OF SERICITE.		
151.4			BLX			5c			V55	20	-	-		2						100	37051	0.9	BRECCIATED CONGLOMERATE WITH STUCK WORK OF SERICITE		
152.9										10	-	-		1						100	37052	1.5	SERICITIZED CLASIS AND MATRIX VEINLETS OF SERICITE.		
154.5										10	-	-		1						100	37053	1.5	SAME AS 152.9		
155.4										7	-	-		1						100	37054	0.9	SAME AS 152.9		
156.0										5	-	-		1						100	37055	0.16	SAME AS 152.9		



Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt					
157.5	M	VFG	STWK	GY	SER3	Q					80	-	-		2	0.1						100	37056	1.5	LIGHT TO MEDIUM GREY/ QTZ VEIN WITH STWK OF SERICITE + PY
159.0							V10				80	-	-		2	0.1						100	37057	1.5	PO IN TRACE
160.0											90	-	-		1	0.1						100	37058	1.0	
161.2			MBX		SER2	5g					20	-	1		1	-						100	37059	1.2	GREWACKE + QTZ FLOODS AKA RED WITH QTZ + PY + ANK + SER STRINGERS, CLASTS LOCALLY SERICITIZED BXA, HIGH CARBONACEOUS MATRIX @ 161.1-161.2
162.0			BXA		SER1	5g, 0.1b	30				20	-	-		2	-						100	37060	0.8	BRECCIATED GWK + QTZ FLOOD WITH A 30° LCA PREFERENTIAL DIRECTION FOR ARGILLITE TPY
163.5											15	-	-		1	-						100	37061	1.5	STRINGERS, LOCALLY SERICITIZED CLASTS + MATRIX
165.0			COT	BK	ANK1	5g, a					25	-	2		3	-						85	37062	1.5	FROM 163.5 TO 167.5, CONTAINS DARK GRAY TO BLACK, HIGHLY CARBONACEOUS, GREWACKE + ARGILLITE, LOCALLY MINOR QTZ QTZ + ANK TPY VEINLETS/FLOODS
166.5											25	-	2		3							100	37063	1.5	HIGHLY BRECCIA HIGHLY BRECCIA 163.7 to 163.85
167.5											25	-	2		3							100	37064	1.0	MINOR CARBONACEOUS, LOCALY BRECCIATED, LOCAL SERICITE BEDS
169.0			POLGY	ANK2		5g					15	-	-		1							100	37065	1.5	GREWACKE WITH SMALL BRECCIATED FRAGMENTS, QTZ VEINLETS/STWK PRESENT, ANKONITIC, WITH MINOR CARBONACEOUS.
170.5											10	-	-		3							100	37066	1.5	LOCALY BRECCIATED, LOCAL SERICITE BEDS
172.0							B10				10	-	-		1							100	37067	1.5	SAME AS 169.0
173.3											5	-	-		1							100	37068	1.5	



Rock Description							Structure			Alteration Parameters (%)															
Dist	Com	Gr	Text	Co	Alt	Name 1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt	RQ	Sampl #	Wth	Comments	
174.7	M	NEG	COT	BR	CAN	Sg, gn					15	-	3		2							100	37069	1.5	ARGILLITE (173.3 TO 177.7) BLACK GRAPHIC, CONTACTED
176.2											10	-	2		1							100	37070	1.5	QTZ + ANK + PY FOLIATED BEDS PRESENTS, PY FOUND CUBIC ALSO
177.7											10	-	1		1							100	37071	1.5	IN MATRIX, ANKERITIC TO CARBONACEOUS ALTERATION QTZ FLOODS NOTED.
179.2	M	NEG	MBX	GY	ANK	Sg, a					5	-	1		1							100	37072	1.5	FOLIATED GREWACIE/ARGILLITE (177.7 TO 185.8)
180.4			FOL								10	-	2		1							100	37073	1.2	LITH TO MEDIUM GRAY FOLIATED TO ANNECATED
181.5			MBX								5	-	0.5		0.5							100	37074	1.1	GWK/ARG. ANK + MINOR SER ALT IN PRESENTS QTZ + ANK + PY
182.2			BLX								10	-	1		0.5							100	37075	0.7	FLOODS/VEINLETS/STRG'N QTZ EYES/ANKERITE CRISTALS/ MICRO-CLASTS LOCALLY FOUND
182.7			FOL								20	-	2		1							100	37076	0.5	PY WITH QTZ, CUBIC IN MATRIX OR WITHIN BEDS FOLLOWING FOLIA- TION CARBONACEOUS MTX IN BLX
183.3			BLX								25	-	5		5							100	37077	0.6	
183.8			FOL								25	-	3		1							100	37078	0.5	
184.6			BLX								15	-	2		2							100	37079	0.8	
185.8	M	FG	COT	WH	SER	QU, Sg, V				30			60	-	3							100	37080	1.2	QTZ VEINS/FLOODS + GWK WITH SERICITIZED + PY VEINLETS/ STRONGER, WHITE TO GRAYISH WHITE QTZ
187.3	M	CG	BLX	GY	SER	Sg, a					25	-	2		2							100	37081	1.5	FROM 185.8 TO 188.6. BRECCIA, GWK, ARG, QTZ CLASTS IN A
188.6											15	-	1		1							100	37082	1.3	CARBONACEOUS + SERICITIZED + QTZ MATRIX, PY FOUND IN VEINLETS OR WITH QTZ



Dist	Rock Description						Structure				Alteration Parameters (%)										RQ	Sampl #	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	FE Bon				
190.1	M	FG	FOL	GG	SER2	Sg	B	20			10	-	1		2						100	37083	1.5	FROM 188.6 TO 192.1
191.1										20	-	2		1							100	37084	1.0	FOLIATED, MODERATELY SERICITIZED GNEISS. QTZ EYES PRESENT
192.1										20	-	2		1							100	37085	1.0	SER IN BEDS AND STRIGERS CLASTS LOCALLY FOUND.
193.4					SER3		B	15		10	-	1		2		0.1	BORNITE	0.1			100	37086	1.3	FROM 192.1 TO 194.6, FOL HIGHLY SERICITIZED GWK, QTZ EYE PRESENT, SER IN BEDS AND STRIG
194.6											-	1		2							100	37087	1.2	PRESNT, SER IN BEDS AND STRIG
195.8					SER2		B	10		10	-	1		1							100	37088	1.2	SAME AS 190.1
197.3					SER3		B	10		10	-	1		1							100	37089	1.5	SAME AS 193.4
198.8										10	-	1		1							100	37090	1.5	FROM 197.3 TO 200.1, FOL HIGHLY SERICITIZED GWK, QTZ + PY EYES, LOCALLY UPTO 2CM DIAMETER. SER STRINGERS + BEDS
200.3										10	-	1		1							100	37091	1.5	
201.2										10	-	1		1							100	37092	0.9	
202.1										10	-	1		1							100	37093	0.9	
202.8						QZ				30	-	2		3							100	37094	0.7	GRAY QTZ FLOWINGS WITH PY STRINGERS HIGHLY SERICITIZED
204.0	M	FG	FOL	GG	SER2	Sg				2	-	0.5		0.5							100	37095	1.2	FROM 202.8 TO 277.0 QTZ EYES GWK, SERICITIZED ALT'N DECREASING DOWN WPT LOCALIZED NARROW QTZ + ANE + PY VENILETS. FEW PY IN MATRIX
205.0										2	-	0.5		0.5							100	37096	1.0	
206.5										4	-	1		1							100	37097	1.5	
208.0										1	-	0.5		0.5							100	37098	1.5	
209.3										1	-	0.5		0.5							100	37099	1.3	
210.25								N	30	10	-	4		1							100	37100	0.95	QTZ + ANK + PY VENILETS MORE
211.5										1	-	0.5		0							100	37101	1.25	





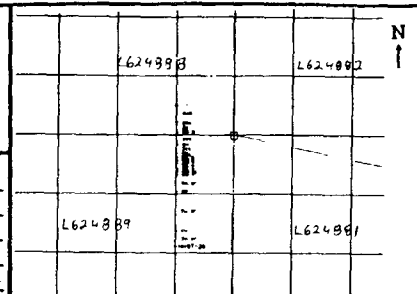
Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl #	Wth	Comments
	Com	Grs	Text	Co	Alt	Na <sub>1</sub>	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt					
213.0	m	Fg	Fol	Gg	Ser	Sg					1	-	0.5		0.5							100	37102	1.5	
214.5											1	-	0.5		0.5							100	37103	1.5	
216.0				Gy	Ser		N	10			1	-	0.5		0.5							100	37104	1.5	
217.5											1	-	0.5		0.5							100	37105	1.5	
219.0											1	-	0.5		0.5							100	37106	1.5	
220.5											1	-	0.5		0.1							100	37107	1.5	
222.0							V	10			1	-	0.1		0.1							100	37108	1.5	
223.5											1	-	0.1		0.1							100	37109	1.5	
225.0							V	20			1	-	0.1		0.1							100	37110	1.5	
226.5							V	20			1	-	0.1		0.5							100	37111	1.5	
228.0											1	-	0.1		0.5							80	37112	1.5	
229.5							V	10			1	-	0.1		0.5							90	37113	1.5	
231.0											1	-	0.1		0.5							75	37114	1.5	
232.5											1	-	0.1		0.5							100	37115	1.5	
234.0											1	-	0.5		0.5							100	37116	1.5	
235.5											1	-	0.1		0.5							100	37117	1.5	
237.0											1	-	0.1		0.5							100	37118	1.5	
250.0											0.5	-	-		0.1							95	37119	13.0	GRAB SAMPLE
258.7							B	30			0.5	-	-		0.5							100	37120	8.7	GRAB SAMPLE







HOLE #: ~~6700E~~ NORTHING: 7503 EASTING: 6700E ELVN: 3050 LENGTH: 346  
 TWP: BRADLETTE Drilled by: BRADLEY Logged by: E. GENERAL Start: 1 MARCH 97  
 Claim: L624889, L624888 Core Stored: TIMMINS Casing/Size: 45m BW, NW Finish: 05/03/97



Dist	Azim	Dip	Dist	Azim	Dip	Dist	Azim	Dip	Dist	Azim	Dip
0	180	-50	346	179	-41.5						
170	180	-48									
240	too light										
300	180	-44									

Purpose/Results: Test HLEM anomaly  
242 samples  
Graphitic argillite 167.6-346.4. Sericite.

Dist	Rock Description					Structure		Alteration Parameters (%)										RQ	Sampl#	Wth	Comments								
	Com	Grs	Text	Co	Alt	Namel	B	A1	F	A2	Qtz	Cal	Ank	DoL	%	Py	Po					Cpy	Sph	Asp	Mt				
43.0						CAS																							CAS at 322.0-344.0
																													SHEARED THOLEIITIC VOLCANICS (43.0 TO 50.4) LIGHT TO MEDIUM GREEN CHLORITIC + SERICITIC ALTERATION ELONGATED, CALCITE FILLED AMIG. DOLC. AND QZ EYES. QZ + CALC + DOLOMITE VEINS AND FLOORING PRESENT. FEW PYRITE
44.0	S	VEG	SHD	GR	SH	Qsh	V	60		0.5	3	-	0.5		0.1								70	37129	1.0				
44.9	M									0.5	2	-	0.5		0.1									95	37130	0.9			
45.6								V	30	1	2	-	3		0.1									70	37131	0.7			PIPK DOLOMITE VEINS 0.45m diam width
47.0								F	70	1	2	-	0.5		0.1									80	37132	1.4			
47.9										1	3	-	0.5		0.1									100	37133	0.9			
48.8										5	1	-	4		0.1									90	37134	0.9			QZ + DOLO FLOORING ALSO DOLOMITE VEINS
49.6								V	50	3	1	-	1		0.1									70	37135	1.2			QZ + DOLO FLOORING 0.45m diam width



Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments				
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	Dol	%	Py	Po	Cpy	Sph	Asp	Mt								
50.4	M	VFG	SHD	GR	SH	ash	F	55			1	2	-	0.1		0.1								100	37136	0.8			
																												AMIGDALOIDAL THOLEIITIC VOLCANICS (50.4 TO 64.2)	
																												MEDIUM GRN. MAINLY CHLORITIC, MINOR SERICITIC ALT'N.	
																												ROUNDED TO LIGHTLY ELONGATED CALC AMIGDULES CALC/QTZ/DOL VEINLETS - FLOODING PRESENT	
																												ANKERITE ALT'N LOCALLY STRONG - MAGNETITE NOTED (SPRES)	
51.1	M	VFG	AMIG	GR	EHL	2a	V	30			1	2	-	2		0.1								100	37137	0.7			
51.4											20	5	1			1									100	37138	0.3	QTZ + ANK + CALC FLOODING	
52.9											5	2	-	3		0.5									80	37139	1.5		
54.0						ANK					2	2	0.5	1		0.1									90	37140	1.1		
54.9											2	2	-	1		0.1									80	37141	0.9		
55.8							V	40			10	5	1	10		0.5									75	37142	0.9	QTZ + CALC + DOL FLOODING LOCALIZED NARROW SHEARS	
56.5											2	1	-	-		0.1									100	37143	0.7		
57.2											2	2	-	10		0.1									90	37144	0.7	PINK DOL VEINUS + FLOODS PRESENT	
58.6											3	2	-	5		0.5									90	37145	1.4	QTZ + CALC + DOL FLOODS	
60.0											3	1	-	1		0.5									90	37146	1.4		
61.4											10	1	-	1												90	37147	1.4	QTZ + CALC + DOL FLOODS
62.9							V	20			6	1	-	0.5		0.5									100	37148	1.5	SAME AS 61.4	
64.2											3	1	-	0.5		0.5										100	37149	1.3	





Dist	Rock Description						Structure				Alteration Parameters (%)													RQ	Sampl#	Wth	Comments						
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	Dol	%	PY	Po	Cpy	Sph	Asp	Mt												
																																	ARGILLITE/GYLEWACK (64.2 TO 74.3) MEDIUM GREENISH GREY FOLIATED TO LOCALLY BRECCIATED MODERATE SERICITE, MINOR CHL + ANK ALTERATION THIN BEDS OF PY FOLLOWING FOLIATION, QTZ + ANK + PY + UGM + FLOWS PRESENT
65.7	M	VFG	FOL	GG	SERA	50g	N	25		2	0.5	0.5			1										100	37150	1.5						
67.2							N	30		2	0.5	0.5			1										95	37151	1.5						
68.4							N	25		3	1	0.5			1										90	37152	1.8						
68.8							N	30		20	1	2			2										75	37153	0.4					QTZ + ANK + PY + CHL VEINS/FLOWS	
69.1										1	-	0.1			0.1										20	37154	0.3						
69.8	D									40	2	5			5					0.1					0	37155	0.7					HIGHLY BROKEN QTZ + ANK + PY EASY FLOWS AND VEINS WHITE CHL PY STAINERS IN QTZ	
71.7						50g	N	45		1	-	-			0.5										50	37156	1.9					LIT CORE @ 70.2-70.6	
72.6	M		BRX							1	1	1	15		1										80	37157	0.9					BRECCIATED WITH MAINLY BLOOMITE FILLS	
73.4										1	1	1	15		1										75	37158	0.8					SAME AS 72.6	
74.3										3	-	0.5	-		0.5										30	37159	0.9					BROKEN/BLOCKY (Intermediate?) LAPILLI - TUFF MAFIC VOLCANICS (74.3 TO 131.07) MEDIUM GREEN MATRIX WITH LIGHT TO MEDIUM GRAY CLASTS	



Dist	Rock Description					Structure				Alteration Parameters (%)												RQ	Sampl#	Wth	Comments			
	Com	Grs	Text	Co	Alt	Neame1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt								
																												Mafic, chloritized matrix with more felsic, elongated angular clasts. Py and Qtz/Cal veinlets locally found
75.8	M	CG	FRAGGR	CHL	3LT	N 55					3	-	0.5	0.5									100	37160	1.5			
77.0											2	-	0.5	0.1									100	37161	1.2			
78.5						N 15					3	-	0.5	0.5									100	37162	1.5			
80.0											1	-	-	0.1									100	37163	1.5			
81.5						N 45					2	-	0.5	0.1									100	37164	1.5			
83.0						N 60					1	-	0.1	0.1									100	37165	1.5			
84.5						N 45					4	-	1	0.5									100	37166	1.5			
86.0						N 60					3	-	0.5	0.1									100	37167	1.5			
87.5						N 60					2	-	0.1	0.5									100	37168	1.5			
89.0						N 20					2	-	0.1	0.1									100	37169	1.5			
90.5											5	-	1	1.0									100	37170	1.5	Qtz + ANK + PY VEINLET, 1cm WIDTH @ 89.80		
92.0											1	-	0.1	0.1									100	37171	1.5			
93.5						N 15					1	-	0.1	0.5									100	37172	1.5			
95.0											2	-	0.5	0.5									100	37173	1.5	From 95.0 Down DEPTH CLASTS MORE ELONGATED (SHAPE)		
96.5						N 70					2	-	0.5	0.1									100	37174	1.5			
98.0											1	-	0.1	0.1									100	37175	1.5			



Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt					
98.2	M	CG	FRAG	GG	CHL	SLT	V	05			10	-	2		3						100	37176	0.2	QTZ + PY VEINLET SUB-PARALLEL TO LCA.	
99.7											2	-	0.5		0.5						100	37177	1.5		
101.2											4	-	1		0.5						95	37178	1.5	QTZ FLOODS (1cm wide)	
101.6	M	WFG	COT	WH	-	QJ					45	-	5		0						95	37179	0.4	QTZ + PY FLOODING	
102.9	M	CG	FRAG	GG	CHL	SLT	V	20			2	-	0.5		0.5						100	37180	1.3		
104.0											2	-	0.5		0.1						100	37181	1.1		
105.5							V	60			5	-	1		0.5						100	37182	1.5		
107.0											3	-	0.5		0.1						100	37183	1.5		
108.5							V	60			3	-	0.5		0.1						100	37184	1.5		
110.0											5	-	1		0.5						100	37185	1.5	QTZ + PY FLOOD, 2cm wide @ 108.6	
111.5							V	50			2	-	0.5		0.1						100	37186	1.5	MORE SERICITIC @ 110.5-110.8	
113.0											2	-	0.5		0.1						100	37187	1.5		
114.5							V	45			2	-	0.5		0.1						100	37188	1.5		
116.0							V	85			2	-	0.5		0.1						100	37189	1.5		
117.2											3	-	0.5		0.1						100	37190	1.0		
117.8							V	30			10	-	3		1						100	37191	0.6	QTZ + ANK + TOURM + PY VEINLETS.	
119.0											2	-	0.5		0.1						100	37192	1.2		
120.5							V	20			3	-	0.5		0.5						100	37193	1.5		
122.0							V	35			5	-	1		0.5						100	37194	1.5		



Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments		
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt							
123.2	M	CG	FRAG	GG	CHL	3LT					2	-	0.5		0.1								100	37195	1.2		
123.4		VFG	HOM	WH	-	QU					70	-	3		2								100	37196	0.2	QTZ + ANK + TOUR + PY VEIN WHITE QTZ	
124.9		CG	FRAG	GG	CHL	3LT					1	-	0.5		0.1								100	37197	1.5		
126.4											2	-	1		0.5								100	37198	1.5		
127.65											1	-	0.5		0.1								100	37199	1.25		
127.85									V60		45	-	5		2								100	37200	0.2	QTZ + ANK + TOUR + PY VEIN, WHITE QTZ	
128.5											2	-	0.5		0.5								100	37201	0.65		
128.7									V15		25	-	2		2								100	37202	0.2	QTZ + ANK + TOUR + PY FLOODS	
130.2											2	-	0.5		0.5								100	37203	1.5		
131.07											8	-	1		1								100	37204	0.87	QTZ FLOODING @ 131.0-131.7	
																											ARGILLITE / SILTSTONE ' FROM 131.07 TO 137.6) LIGHT TO MEDIUM GREENISH GREY CHLORITIZED AND SERICITIZED ANK ALTERATION ALSO PRESENT. QTZ + ANK + PY VEINS / FLOODS. PY FOUND BETWEEN FLOODS. (CAN BE SHEARED) EXTENSION OF 3LT)
132.5	M	VFG	FOL	GG	SCHL	Sa.s			V50		3	-	1		1								100	37205	1.43		
133.0											3	-	1		1								100	37206	0.5		
133.45									V35		30	-	10		5								100	37207	0.45	QTZ + ANK + PY VEINS / FLOODING	
134.0											70	-	20		5								100	37208	0.65	QTZ + ANK + TOUR + PY VEIN WHITE QTZ	





Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments	
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt						
134.35	M	VFG	FOL	GG	SCHL	So.S					15	-	3		1								100	37209	0.25	
134.65	M		Hom	WH	-	QU					80	-	10		2								100	37210	0.30	QTZ + ANK + PY + TOURMALINE VEINS WHITE QTZ
135.3	M		FOL	GG	SCHL	So.S	V	60			2	-	0.5		0.5								100	37211	0.65	
135.65											35	-	5		2								100	37212	0.35	QTZ + ANK + PY VEINS
137.0							V	70			3	-	1		0.5								100	37213	1.35	
137.4											3	-	1		0.5								100	37214	0.3	
137.7											30	-	5		1								100	37215	0.3	QTZ + ANK + PY + TOURMALINE VEINS
138.8											2	-	0.5		0.5								100	37216	1.1	
139.6			COT	GY	-	QU					30	-	15		3								90	37217	0.8	QTZ + ANK + PY FLOODS AND VEINS
140.8			FOL	GG	SCHL	So.S					5	-	2		1								100	37218	1.0	
141.3											8	-	2		0.5								100	37219	0.5	
141.85			COT	WH	-	QU					50	-	10		5								90	37220	0.55	QTZ + ANK + PY + TOURMALINE HIGHLY COT, NOT HOMOGENEOUS
142.2						GG	SCHL	So.S			10	-	3		2								100	37221	0.35	
143.2						WH	-	QU			40	-	15		3								100	37222	1.0	SAME AS 141.85, WHITE + GREEN Q+Z
144.2						GG	SCHL	So.S			15	-	5		2								100	37223	1.0	QTZ + ANK + PY FLOOD
145.2									V	40					1								100	37224	1.0	
146.2											3	-	1		1								100	37225	1.0	
146.7											25	-	5		3								100	37226	0.5	QTZ + ANK + PY FLOODS/VEINS



Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments	
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt						
147.55	M	VFG	FOL	GR	SCHL	Sa.S	V	40			5	-	1		1								100	37227	0.85	
147.9			COI	WH	-	QU					50	-	5		2								100	37228	0.35	QTZ + ANK + PY + TORL FLOWING
149.0			FOL	GR	SCHL	Sa.S					5	-	1		1								100	37229	1.1	
150.5							V	40			10	-	2		1								100	37230	1.5	QTZ + ANK + PY FLOWS @ 149.5-149.6, @ 150.12-150.16
152.0							V	15			5	-	1		1								100	37231	1.5	QTZ + ANK + PY WEINLET @ 150.65
153.5											2	-	0.5		0.5								100	37232	1.5	
155.0											5	-	2		1								100	37233	1.5	QTZ + ANK + PY FLOWS ALONG WATER VHL
156.5							V	50			3	-	1		0.5								100	37234	1.5	
158.0						SER2					1	-	0.5		0.5								100	37235	1.5	
159.5											3	-	0.5		0.5								100	37236	1.5	
159.75			COI	WH	SER2	QU					60	-	10		3								100	37237	0.25	QTZ + ANK + PY FLOWING
161.0			FOL	GR		Sa.S					3	-	1		0.5								100	37238	1.25	
162.5						SER1					1	-	0.5		0.5								100	37239	1.5	
163.4						SCHL					1	-	0.5		0.5								100	37240	0.8	
163.5						LC																				LC
164.7	M	VFG	FOL	GR	SER2	Sa.S					1	-	0.5		0.5								100	37241	0.9	
164.6											40	-	5		2								100	37242	0.2	QTZ + ANK + PY WEIN
165.4											2	-	0.5		0.5								100	37243	0.8	



Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments	
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt						
166.8	M	VFG	FOL	GG	SER1	5a, S					4	-	1		1							100	37244	1.4		
167.6					SER2						20	-	5		2							100	37245	0.8	QTZ + ANK + PY FLOODING.	
																										ARGILLITE (167.6 TO 346.4) - BLACK, MODERATELY TO HIGHLY GRAPHITIC - QTZ + ANK + PY VEINLETS/ VEINOS/FLOODING NOTED - PRIMARY, NODULAR PY NOTED - PY, SECONDARY, IN BEDS, VEIN- LETS AND LOCALLY DISSEMINATING
168.4	B	VFG	CUT	BK	GRP	5a, gn					40	-	3		5							70	37246	0.8	QTZ (WHITE) FLOODING WITH PY	
169.9						LC																				LC
170.9	D	VFG	CUT	BK	GRP	5a, gn					20	-	3		3							0	37247	1.0	QTZ + PY FLOODS	
171.9											2	-	-		5								30	37248	1.0	PRIMARY NODULAR PY
176.2	S										2	-	-		5								30	37249	4.3	PRIM PY, GRASS SAMPLE, LOST COM @ 175-175.3
176.6						LC																				
177.8	S	VFG	COT	BK	GRP	5a, gn					20	-	2		3								50	37250	1.2	BROKEN @ 176.6-176.8, WITH NARROW FAULT GOUGE??
179.0											20	-	2		2								50	37251	1.2	
180.5	M										15	-	2		1								80	37252	1.5	
182.0											15	-	2		1								95	37253	1.5	
183.5											25	-	2		3								90	37254	1.5	
185.0											15	-	2		2								100	37255	1.5	



Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt					
186.5	m	VEG	CoT	BE	GR	Sa.yn	V	40			10	-	1		2							100	37256	1.5	
188.0											20	-	2		3	0.1		0.1				100	37257	1.5	
189.5											10	-	1		3							100	37258	1.5	
191.0											15	-	1		3							100	37259	1.5	
192.5							V	40			15	-	2		8	0.1						100	37260	1.5	
194.0							V	35			10	-	1		4				0.1			100	37261	1.5	
195.5											10	-	2		4							100	37262	1.5	
197.0							V	35			15	-	2		3							100	37263	1.5	
198.5							V	50			15	-	3		3	0.1		0.1				100	37264	1.5	
200.0							V	45			10	-	3		3							100	37265	1.5	
201.5							V	70			20	-	3		3	0.1		0.1				100	37266	1.5	
203.0							V	60			15	-	3		3							100	37267	1.5	
204.2							V	50			8	-	2		1							100	37268	1.2	
205.7							V	50			20	-	3		3	0.1		0.1				100	37269	1.5	
206.6											15	-	2		2							100	37270	0.9	
207.5							V	70			15	-	2		2	0.1						100	37271	0.9	
209.0											15	-	3		1							100	37272	1.5	
210.5											20	-	3		2	0.1		0.1				100	37273	1.5	
212.0											30	-	3		2	0.1		0.5				100	37274	1.5	





Dist	Rock Description						Structure			Alteration Parameters (%)											RQ	Sampl #	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt				
213.5	M	VFG	COT	BR	GRP	Sagn	V	45		20	-	2		2	0.1						90	37275	1.5	
215.0										15	-	2		2							80	37276	1.5	
216.2										15	-	2		3	0.1						60	37277	1.2	FAULT SHEAR @ 216.1-216.2. APPROX 60° LCA
217.3				WH		QU				60	-	5		1	0.1						50	37278	0.9	
218.8				BR						10	-	2		1							95	37279	1.5	
220.3								V	50	5	-	1		1							100	37280	1.5	
221.3										10	-	1		2							100	37281	1.0	
222.0										10	-	1		1							100	37282	0.7	
222.7				GY				V	25	40	-	2		1							100	37283	0.7	QTZ + ANK + PY NEW @ 222.2 TO 222.40
224.0								V	30	5	-	-		2							100	37284	1.3	
225.5										10	-	2		2							100	37285	1.5	
227.0										15	-	2		1							100	37286	1.5	
228.5										10	-	1		1							100	37287	1.5	
230								V	30	7	-	0.5		1							100	37288	1.5	
231.5								V	50	20	-	2		2							100	37289	1.5	
232.5								V	30	4	-	-		2							100	37290	1.0	
233.5										40	-	3		2							70	37291	1.0	QTZ FLOWS. LOST CORE @ 233.1 TO 233.2. FAULT GOUSS @ 233.10.



Dist	Rock Description						Structure			Alteration Parameters (%)													RQ	Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt						
234.5	M	VFG	COT	AC	GMP	Sa gn					10	-	1		1							80	37292	1.5		
236.0							V	45			2	-	-		5							80	37293	1.5		
237.5											5	-	-		5							100	37294	1.5		
239.0											10	-	1		4							100	37295	1.5		
240.5							V	40			10	-	1		5	0.1						100	37296	1.5		
242.0											5	-	-		5							100	37297	1.5		
243.5							V	20			5	-	-		3							100	37298	1.5		
245.0							V	35			10	-	1		2							100	37299	1.5		
246.5											7	-	-		3							100	37300	1.5		
248.0							V	35			1	-	-		5							100	37301	1.5		
249.5							V	25			3	-	-		2							100	37302	1.5		
251.0							V	35			2	-	-		2							100	37303	1.5		
252.5											2	-	-		2							100	37304	1.5		
254.0							V	40			4	-	-		2							100	37305	1.5		
255.5							V	30			10	-	1		3							100	37306	1.5		
257.0							V	35			2	-	-		4							100	37307	1.5		
258.5							V	45			10	-	1		3							100	37308	1.5		
260.0											2	-	-		4							90	37309	1.5		
261.5							V	50			5	-	-		2							90	37310	1.5		



Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt					
263.0	M	VFO	CGT	BRGRP	Sagn	V45				15	-	2		3								100	37311	1.5	
264.5						V60				10	-	1		3	0.1							100	37312	1.5	
266.0						V55				7	-	1		2								100	37313	1.5	
267.5										10	-	1		2								90	37314	1.5	
269.0						V45				5	-	-		2								100	37315	1.5	
270.5						V40				8	-	1		2								100	37316	1.5	
272.0										10	-	1		2								100	37317	1.5	
273.5						V45				5	-	-		1								100	37318	1.5	
275.0						V50				10	-	1		2								100	37319	1.5	
276.5						V40				15	-	2		1	0.1							100	37320	1.5	
278.0										5	-	1		1								100	37321	1.5	
279.5										8	-	1		2								100	37322	1.5	
281.0										15	-	1		2								100	37323	1.5	
282.5						V55				5	-	2		3								90	37324	1.5	
284.0						V60				3	-	-		3								75	37325	1.5	
285.5										5	-	1		2								100	37326	1.5	
287.0						V65				10	-	1		3								100	37327	1.5	
288.5						V60				7	-	1		3								100	37328	1.5	
290.0										10	-	1		3								100	37329	1.5	



Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Name1	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt					
291.5	M	VFG	COT	BK	GRP	Sagn	V	25			5	-	1		2							100	37330	1.5	
293.0											5	-	1		3							100	37331	1.5	
294.5							V	60			7	-	1		2							100	37332	1.5	
296.0											2	-	-		4							100	37333	1.5	
297.5							V	50			1	-	-		3							90	37334	1.5	
299.0											2	-	-		3							100	37335	1.5	
300.5	S						V	55			10	-	1		3							80	37336	1.5	
302.0	R										3	-	-		2							40	37337	1.5	LAST CABLE @ 300.5 TO 302.8
303.5	S										20	-	1		2							80	37338	1.5	
305.0	M										10	-	1		3							90	37339	1.5	
306.5											15	-	1		3							95	37340	1.5	
308.0							V	50			20	-	1		2							100	37341	1.5	
309.5											5	-	-		4							100	37342	1.5	
310.9											2	-	-		4							100	37343	1.4	
311.5	M	FMG	SER	MT							0.5	-	-		95	0.1						100	37344	0.25	MASSIVE PY WITH NODULAR AND SECONDARY PY. FINE TO COARSE GRAINED
311.8	M	VFG	COT	BK	GRP	Sagn					1	-	-		10	-						100	37345	0.65	NODULAR PY 1.5"
312.1											5	-	-		40	-						100	37346	0.3	SAME AS 311.1" BETWEEN 311.85 - 311.95
313.6											5	-	-		2							100	37347	1.5	





Dist	Rock Description						Structure				Alteration Parameters (%)											RQ	Sampl#	Wth	Comments
	Com	Grs	Text	Co	Alt	Namel	B	A1	F	A2	Qtz	Cal	Ank	%	Py	Po	Cpy	Sph	Asp	Mt					
315.0	m	VFG	CST	BR	GR	50 gn					10	-	1		3							100	37348	1.4	
316.5											15	-	1		2							100	37349	1.5	
317.5							V	50			2	-	-		3							100	37350	1.0	
318.2											40	-	5		2							100	37351	0.7	QTZ + ANK + PY VEINS
319.2							V	40			10	-	1		2							100	37352	1.0	
320.6											15	-	2		3							100	37353	1.4	
322.0											7	-	2		4							100	37354	1.4	
323.5							V	60			5	-	-		2							100	37355	1.5	
325.0											2	-	-		2							100	37356	1.5	
326.4							V	45			25	-	3		2							100	37357	1.5	QTZ + ANK + PY VEINS
327.9											5	-	1		3							100	37358	1.5	
329.0							V	60			3	-	-		2							100	37359	1.1	
330.5							V	65			5	-	-		2							100	37360	1.5	
332.0							V	60			3	-	-		2							100	37361	1.5	
333.5							V	55			2	-	-		3							100	37362	1.5	
335.0							V	45			2	-	-		2							100	37363	1.5	
336.5											10	-	1		2							100	37364	1.5	
338.0											7	-	1		2							100	37365	1.5	
339.5							V	40			10	-	1		2							100	37366	1.5	



5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
1 L839505	1	0	\$400		
2 L839506	1	0	\$400		
3 L839507	1	0	\$400		
4 L839508	1	0	\$400		
5 L839509	1	0	\$400		
6 L839510	1	0	\$400		
7 L839511	1	0	\$400		
8 L839512	1	0	\$400		
9 L839513	1	0	\$400		
10 L839514	1	0	\$400		
11 L839515	1	0	\$400		
12 L839516	1	0	\$400		
13 L839517	1	0	\$400		
14 L839518	1	0	\$400		
15 L839519	1	0	\$400		
Column Totals		0	<del>\$6,000</del>		

2.17187

I, \_\_\_\_\_, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing

*P. Lewis*

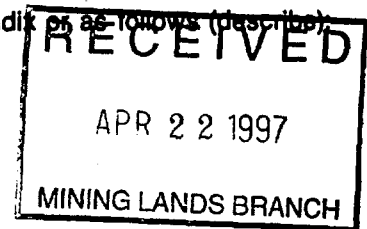
Date

April 11 1997

6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):



Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)		

the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

Mining Claim Number. Or if work was done on other eligible mining land, show in this column, the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
1 L839490	1	0	\$400		
2 L839491	1	0	\$400		
3 L839492	1	0	\$400		
4 L839493	1	0	\$400		
5 L839494	1	0	\$400		
6 L839495	1	0	\$400		
7 L839496	1	0	\$400		
8 L839497	1	0	\$400		
9 L839498	1	0	\$400		
10 L839499	1	0	\$400		
11 L839500	1	0	\$400		
12 L839501	1	0	\$400		
13 L839502	1	0	\$400		
14 L839503	1	0	\$400		
15 L839504	1	0	\$400		
Column Totals		0	<del>\$6000</del>		

2.17187

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Signature of Recorded Holder or Agent Authorized in Writing

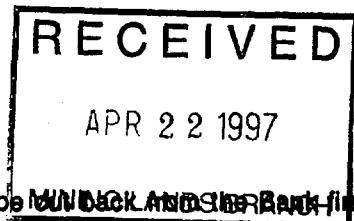
Date

April 11/97

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Note: If you have not indicated how your credits are to be deleted, credits will be ~~cut back and then Bank~~ cut back and then Bank first, followed by option number 2 if necessary.

For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)		

5. Work to be recorded and distributed. Work can only be assigned to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
- 1 L839520	1	0	\$400		
- 2 L839521	1	0	\$400		
- 3 L839522	1	0	\$400		
- 4 L839523	1	0	\$400		2.18187
- 5 L839524	1	0	\$400		
- 6 L839525	1	0	\$400		
- 7 L839526	1	0	\$400		?
- 8 L839527	1	0	\$400		
9					
10					
11					
12					
13					
14					
15					
<b>Column Totals</b>		0	3200		

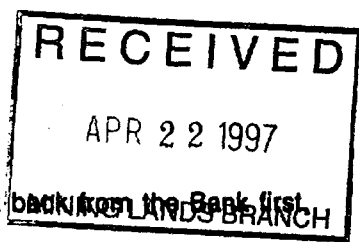
I, \_\_\_\_\_, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: [Signature] Date: April 11 1997

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For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
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Approved for Recording by Mining Recorder (Signature)		

the mining land where work was performed, at the time work was performed. A map showing the contiguous mining must accompany this form.

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
- 1 L633344	1	0	\$400		
✓ 2 L633345	1	0	\$400		
- 3 L633346	1	0	\$400		
- 4 L633347	1	0	\$400		
- 5 L633348	1	0	\$400		
- 6 L633349	1	0	\$400		
- 7 L633350	1	0	\$400		
- 8 L633351	1	0	\$400		
✓ 9 L633352	1	0	\$400		
- 10 L633353	1	0	\$400		
- 11 L633354	1	0	\$400		
- 12 L633355	1	0	\$400		
✓ 13 L633356	1	0	\$400		
14 L633357	1	0	\$400		
15 L633358	1	0	\$400		
Column Totals		0	\$6,000		

2.17187

I, \_\_\_\_\_, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing

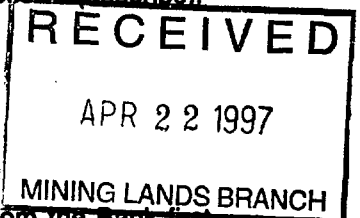
Date

April 11, 1997

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For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)		

the mining land where work was performed, at the time work was performed. A map showing the contiguous mining land must accompany this form.

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.		Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg	TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg	1234567	12	0	\$24,000	0	0
eg	1234568	2	\$8,892	\$4,000	0	\$4,892
✓	1 L633329	1	0	\$400	<b>2.17187</b>	
✓	2 L633330	1	0	\$400		
✓	3 L633331	1	0	\$400		
✓	4 L633332	1	0	\$400		
✓	5 L633333	1	0	\$400		
✓	6 L633334	1	0	\$400		
✓	7 L633335	1	0	\$400		
✓	8 L633336	1	0	\$400		
✓	9 L633337	1	0	\$400		
✓	10 L633338	1	0	\$400		
✓	11 L633339	1	0	\$400		
✓	12 L633340	1	0	\$400		
✓	13 L633341	1	0	\$400		
✓	14 L633342	1	0	\$400		
✓	15 L633343	1	0	\$400		
<b>Column Totals</b>			0	<del>\$6000</del>		

I, \_\_\_\_\_, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing

Date

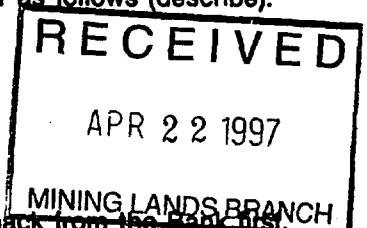
*[Handwritten Signature]*

*April 11, 97*

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**For Office Use Only**

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	Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)		



5. Work to be recorded and distributed. Work can only be assigned to claims that are on the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.		Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg	TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg	1234567	12	0	\$24,000	0	0
eg	1234568	2	\$8,892	\$4,000	0	\$4,892
✓ 1	L633313	1	0	\$400		
✓ 2	L633314	1	0	\$400		
✓ 3	L633315	1	0	\$400		
✓ 4	L633316	1	0	\$400		
✓ 5	L633317	1	0	\$400		
✓ 6	L633318	1	0	\$400		
✓ 7	L633319	1	0	\$400		
✓ 8	L633320	1	0	\$400		
✓ 9	L633321	1	0	\$400		
✓ 10	L633323	1	0	\$400		
✓ 11	L633324	1	0	\$400		
✓ 12	L633325	1	0	\$400		
✓ 13	L633326	1	0	\$400		
✓ 14	L633327	1	0	\$400		
✓ 15	L633328	1	0	\$400		
<b>Column Totals</b>			0	<del>\$6000</del>		

2.17187

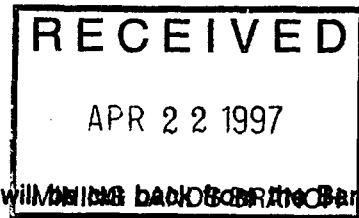
I, \_\_\_\_\_, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: *[Signature]* Date: April 11, 1997

6. Instructions for cutting back credits that are not approved.

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5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg TB 7827	16 ha	\$26, 825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$ 8, 892	\$ 4,000	0	\$4,892
✓✓ 1 L624982	1	0	\$ 400		
✓✓ 2 L624983	1	0	\$ 400		
✓✓ 3 L624984	1	0	\$ 400		
✓✓ 4 L624985	1	0	\$ 400		
✓✓ 5 L624986	1	0	\$ 400		
✓✓ 6 L624987	1	0	\$ 400		
✓✓ 7 L624988	1	0	\$ 400		
✓✓ 8 L624989	1	0	\$ 400		
✓✓ 9 L624990	1	0	\$ 400		
✓ 10 L628685	1	0	\$ 400		
✓ 11 L628686	1	0	\$ 400		
✓ 12 L628687	1	0	\$ 400		
✓ 13 L628688	1	0	\$ 400		
✓ 14 L628689	1	0	\$ 400		
✓ 15 L628690	1	0	\$ 400		
Column Totals		0	<del>6000</del>		

2.17187

I, \_\_\_\_\_, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing

Date April 11/92

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**RECEIVED**  
 APR 22 1997  
 MINING LANDS BRANCH

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For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
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Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
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eg 1234568	2	\$8,892	\$4,000	0	\$4,892
✓ 1 L628691	1	0	\$400		
✓ 2 L628692	1	0	\$400		
✓ 3 L628693	1	0	\$400		
✓ 4 L628694	1	0	\$400		
✓ 5 L633106	1	0	\$400		
6 L633107	1	0	\$400		
✓ 7 L633130	1	0	\$400		
- 8 L633131	1	0	\$400		
✓ 9 L633132	1	0	\$400		
- 10 L633269	1	0	\$400		
✓ 11 L633270	1	0	\$400		
- 12 L633271	1	0	\$400		
- 13 L633272	1	0	\$400		
- 14 L633273	1	0	\$400		
- 15 L633312	1	0	\$400		
<b>Column Totals</b>		0	<del>\$6,000</del>		

2.17187

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Signature of Recorded Holder or Agent Authorized in Writing

Date

April 11/97

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Deemed Approved Date	Date Notification Sent
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Approved for Recording by Mining Recorder (Signature)	

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Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
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eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
✓ 1 L628655	1	0	\$400		
✓ 2 L628656	1	0	\$400		
✓ 3 L628657	1	0	\$400		
✓ 4 L628658	1	0	\$400		
✓ 5 L628659	1	0	\$400		
✓ 6 L628660	1	0	\$400		
✓ 7 L628661	1	0	\$400		
✓ 8 L628662	1	0	\$400		
✓ 9 L628663	1	0	\$400		
✓ 10 L628664	1	0	\$400		
✓ 11 L628665	1	0	\$400		
✓ 12 L628666	1	0	\$400		
✓ 13 L628667	1	0	\$400		
✓ 14 L628668	1	0	\$400		
✓ 15 L628669	1	0	\$400		
Column Totals		0	<del>\$6000</del>		

2.17157

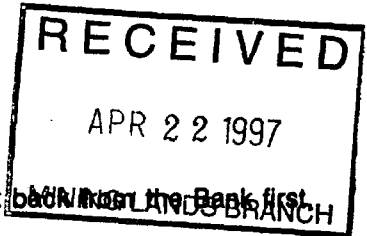
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Signature of Recorded Holder or Agent Authorized in Writing: [Signature] Date: April 11/97

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For Office Use Only

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Approved for Recording by Mining Recorder (Signature)		

the mining land where work was performed, at the time work was performed. A map showing the mining land must accompany this form.

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
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eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
✓ 1 L628670	1	0	\$400		
- 2 L628671	1	0	\$400		
- 3 L628672	1	0	\$400		
- 4 L628673	1	0	\$400		
- 5 L628674	1	0	\$400		
- 6 L628675	1	0	\$400		
- 7 L628676	1	0	\$400		
- 8 L628677	1	0	\$400		
- 9 L628678	1	0	\$400		
- 10 L628679	1	0	\$400		
✓ 11 L628680	1	0	\$400		
- 12 L628681	1	0	\$400		
✓ 13 L628682	1	0	\$400		
- 14 L628683	1	0	\$400		
✓ 15 L628684	1	0	\$400		
<b>Column Totals</b>		0	<del>\$6000</del>		

I, \_\_\_\_\_, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing

Date

*[Handwritten Signature]*

April 11/97

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**RECEIVED**  
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 MINING LANDS BRANCH

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eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
✓ 1 L591391	1	0	\$400		
- 2 L591392	1	0	\$400		
✓ 3 L591393	1	0	\$400		
- 4 L591394	1	0	\$400		
- 5 L624881	1	0	\$400		
✓ 6 L624882	1	0	\$400		
- 7 L624883	1	0	\$400		
✓ 8 L624884	1	0	\$400		
✓ 9 L633372	1	0	\$400		
- 10 L633373	1	0	\$400		
- 11 L633374	1	0	\$400		
- 12 L633375	1	0	\$400		
- 13 L633376	1	0	\$400		
- 14 L633377	1	0	\$400		
✓ 15 L633378	1	0	\$400		
<b>Column Totals</b>		0	<del>\$6,000</del>		

2.17187

I, \_\_\_\_\_, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

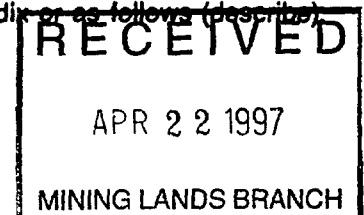
Signature of Recorded Holder or Agent Authorized in Writing

Date: April 11, 1997

6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):



Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)		

the mining land where work was performed, at the time work was performed. This form must accompany this form.

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
✓ 1 L633379	1	0	\$400		
- 2 L633380	1	0	\$400		
✓ 3 L633381	1	0	\$400		
- 4 L633382	1	0	\$400		
- 5 L633383	1	0	\$400		
- 6 L633384	1	0	\$400		
✓ 7 L633385	1	0	\$400		
- 8 L633386	1	0	\$400		
- 9 L633387	1	0	\$400		
- 10 L633388	1	0	\$400		
- 11 L633389	1	0	\$400		
- 12 L633390	1	0	\$400		
- 13 L633391	1	0	\$400		
- 14 L633392	1	0	\$400		
✓ 15 L633393	1	0	\$400		
Column Totals		0	<del>\$6000</del>		

2.17187

**RECEIVED**  
 APR 22 1997  
 MINING LANDS BRANCH

I, \_\_\_\_\_, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: [Signature] Date: April 11/97

**6. Instructions for cutting back credits that are not approved.**

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

**For Office Use Only**

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)		

must accompany this form.

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$ 8,892	\$ 4,000	0	\$4,892
✓ 1 L633394	1	0	\$ 400		
✓ 2 L633395	1	0	\$ 400		
✓ 3 L633396	1	0	\$ 400		
✓ 4 L633397	1	0	\$ 400		
✓ 5 L633398	1	0	\$ 400		
✓ 6 L633399	1	0	\$ 400		
✓ 7 L633400	1	0	\$ 400		
✓ 8 L633401	1	0	\$ 400		
✓ 9 L633402	1	0	\$ 400		
✓ 10 L633403	1	0	\$ 400		
✓ 11 L633404	1	0	\$ 400		
✓ 12 L633405	1	0	\$ 400		
✓ 13 L633406	1	0	\$ 400		
✓ 14 L633407	1	0	\$ 400		
✓ 15 L633408	1	0	\$ 400		
<b>Column Totals</b>		0	\$6,000		

2.171 E7

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 APR 22 1997  
 MINING LANDS BRANCH

I, \_\_\_\_\_, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: [Signature] Date: April 16 1997

**6. Instructions for cutting back credits that are not approved.**

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

**For Office Use Only**

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)		



the mining land where work was performed, at the time work was performed. A map showing the contiguous mining land must accompany this form.

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
✓ 1 L624885	1	0	\$400		
✓ 2 L624886	1	0	\$400		
✓ 3 L624887	1	0	\$400		
✓ 4 L624890	1	0	\$400		
✓ 5 L624891	1	0	\$400		
✓ 6 L624892	1	0	\$400		
✓ 7 L624893	1	0	\$400		
✓ 8 L624894	1	0	\$400		
✓ 9 L624895	1	0	\$400		
✓ 10 L624896	1	0	\$400		
✓ 11 L624897	1	0	\$400		
✓ 12 L624898	1	0	\$400		
✓ 13 L624899	1	0	\$400		
✓ 14 L624900	1	0	\$400		
✓ 15 L624981	1	0	\$400		
<b>Column Totals</b>		0	\$6,000		

2.17187

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 APR 22 1997  
 MINING LANDS BRANCH

I, \_\_\_\_\_, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: P. W. A. B. Date: April 11/97

**6. Instructions for cutting back credits that are not approved.**

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

**For Office Use Only**

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)		

the mining land where work was performed, at the time work was performed. A map showing the contiguous mining must accompany this form.

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg TB 7927	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
✓ 1 L633359	1	0	\$400		
✓ 2 L633360	1	0	\$400		
✓ 3 L633361	1	0	\$400		
✓ 4 L633362	1	0	\$400		
✓ 5 L633363	1	0	\$400		
✓ 6 L633364	1	0	\$400		
✓ 7 L633365	1	0	\$400		
✓ 8 L633366	1	0	\$400		
✓ 9 L633367	1	0	\$400		
✓ 10 L633368	1	0	\$400		
✓ 11 L633369	1	0	\$400		
✓ 12 L633370	1	0	\$400		
✓ 13 L633371	1	0	\$400		
✓ 14 L633322	1	0	\$400		
✓ 15 L633412	1	0	\$400		
<b>Column Totals</b>		0	\$6,000		

17187

**RECEIVED**  
 APR 22 1997  
 MINING LANDS BRANCH

I, \_\_\_\_\_, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: [Signature] Date: April 22 1997

**6. Instructions for cutting back credits that are not approved.**

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

**For Office Use Only**

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)		

The work to be recorded and distributed. From the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

Claiming Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
1 L633413	1	0	\$400		
2 L633415	1	0	\$400		
3 L633416	1	0	\$400		
4 L633417	1	0	\$400		
5 L633418	1	0	\$400		
6 L633419	1	0	\$400		
7 L633420	1	0	\$400		
8 L633421	1	0	\$400		
9 L633422	1	0	\$400		
10 L633423	1	0	\$400		
11 L633424	1	0	\$400		
12 L633425	1	0	\$400		
13 L633426	1	0	\$400		
14 L633429	1	0	\$400		
15 L633431	1	0	\$400		
<b>Column Totals</b>		0	\$6,000		

2.17157

**RECEIVED**  
APR 22 1997  
MINING LANDS BRANCH

I, \_\_\_\_\_, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: [Signature] Date: April 11/97

**6. Instructions for cutting back credits that are not approved.**

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

**For Office Use Only**

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)		

the mining land where work was performed, at the time work was performed. A map showing the location must accompany this form.

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$ 8,892	\$ 4,000	0	\$4,892
✓ 1 L628622	1	0	\$ 400		
✓ 2 L628623	1	0	\$ 400		
✓ 3 L628624	1	0	\$ 400		
✓ 4 L628625	1	0	\$ 400		
✓ 5 L628626	1	0	\$ 400		
✓ 6 L628627	1	0	\$ 400		
✓ 7 L628628	1	0	\$ 400		
✓ 8 L628629	1	0	\$ 400		
✓ 9 L628630	1	0	\$ 400		
✓ 10 L628634	1	0	\$ 400		
✓ 11 L628635	1	0	\$ 400		
✓ 12 L628636	1	0	\$ 400		
✓ 13 L628637	1	0	\$ 400		
✓ 14 L628638	1	0	\$ 400		
✓ 15 L628639	1	0	\$ 400		
<b>Column Totals</b>		0	\$6000		

2.1

**RECEIVED**  
 APR 22 1997  
 MINING LANDS BRANCH

I, \_\_\_\_\_, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: [Signature] Date: April 11/92

**6. Instructions for cutting back credits that are not approved.**

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

**For Office Use Only**

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)		

5. WORK to be recorded and distributed. Work can only be assigned to claims on the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
✓ 1 L628640	1	0	\$400		
✓ 2 L628641	1	0	\$400		
✓ 3 L628642	1	0	\$400		
✓ 4 L628643	1	0	\$400		
- 5 L628644	1	0	\$400		
✓ 6 L628645	1	0	\$400		
✓ 7 L628646	1	0	\$400		
✓ 8 L628647	1	0	\$400		
✓ 9 L628648	1	0	\$400		
✓ 10 L628649	1	0	\$400		
✓ 11 L628650	1	0	\$400		
✓ 12 L628651	1	0	\$400		
✓ 13 L628652	1	0	\$400		
✓ 14 L628653	1	0	\$400		
✓ 15 L628654	1	0	\$400		
<b>Column Totals</b>		0	<del>\$6,000</del>		

17187

**RECEIVED**  
 APR 22 1997  
 MINING LANDS BRANCH

I, \_\_\_\_\_, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing

Date

*[Handwritten Signature]*

*April 11/97*

**6. Instructions for cutting back credits that are not approved.**

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

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- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

**For Office Use Only**

Received Stamp

Desmed Approved Date	Date Notification Sent
Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)	

5. WORK TO BE RECORDED AND DISTRIBUTED: the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg TB 7827	16 ha	\$28,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
- 1 L628 607	1	0	\$400		
- 2 L628 608	1	0	\$400		
- 3 L628 609	1	0	\$400		
- 4 L628 610	1	0	\$400		
- 5 L628 611	1	0	\$400		
- 6 L628 612	1	0	\$400		
- 7 L628 613	1	0	\$400		
- 8 L628 614	1	0	\$400		
- 9 L628 615	1	0	\$400		
- 10 L628 616	1	0	\$400		
- 11 L628 617	1	0	\$400		
- 12 L628 618	1	0	\$400		
- 13 L628 619	1	0	\$400		
- 14 L628 620	1	0	\$400		
- 15 L628 621	1	0	\$400		
<b>Column Totals</b>		0	<del>\$6,000</del>		

2.17157

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APR 22 1997

MINING LANDS BRANCH

I, \_\_\_\_\_, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: [Signature] Date: April 11/97

6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

<b>For Office Use Only</b> Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	

5. Work to be recorded and distributed. Work done on the mining land where work was performed, at the time work was performed. A map showing the contiguous mining land must accompany this form.

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
✓ 1 L591375	1	0	\$400		
- 2 L591376	1	0	\$400		
✓ 3 L591377	1	0	\$400		
✓ 4 L591378	1	0	\$400		
- 5 L591380	1	0	\$400		
- 6 L591381	1	0	\$400		
✓ 7 L591382	1	0	\$400		
- 8 L591383	1	0	\$400		
✓ 9 L591384	1	0	\$400		
- 10 L591385	1	0	\$400		
✓ 11 L591386	1	0	\$400		
- 12 L591387	1	0	\$400		
✓ 13 L591388	1	0	\$400		
✓ 14 L591389	1	0	\$400		
✓ 15 L591390	1	0	\$400		
<b>Column Totals</b>		0	\$6,000		

17187

RECEIVED  
APR 22 1997  
MINING LANDS BRANCH

I, Paul Card (Print Full Name), do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: [Signature] Date: April 11/97

6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

**For Office Use Only**

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)		

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
✓ 1 L633409	1	0	\$400		
✓ 2 L633410	1	0	\$400		
✓ 3 L633411	1	0	\$400		
✓ 4 L633452	1	0	\$400		
✓ 5 L633453	1	0	\$400		
✓ 6 L633454	1	0	\$400		
✓ 7 L633455	1	0	\$400		
✓ 8 L633456	1	0	\$400		
✓ 9 L633457	1	0	\$400		
✓ 10 L633458	1	0	\$400		
✓ 11 L633459	1	0	\$400		
✓ 12 L633460	1	0	\$400		
✓ 13 L633461	1	0	\$400		
✓ 14 L633462	1	0	\$400		
✓ 15 L633463	1	0	\$400		
<b>Column Totals</b>		0	<del>\$6,000</del>		

181

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I, \_\_\_\_\_, do hereby certify that the above work ~~credits are eligible under~~ subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: F. CONRAD Date: April 11/97

6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

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- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

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	Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)		



5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
✓ 1 L633432	1	0	\$400		
✓ 2 L633435	1	0	\$400		
✓ 3 L633436	1	0	\$400		
✓ 4 L633439	1	0	\$400		
✓ 5 L633441	1	0	\$400		
✓ 6 L633442	1	0	\$400		
✓ 7 L633445	1	0	\$400		
✓ 8 L633446	1	0	\$400		
✓ 9 L633447	1	0	\$400		
✓ 10 L633448	1	0	\$400		
✓ 11 L633449	1	0	\$400		
✓ 12 L633450	1	0	\$400		
✓ 13 L633451	1	0	\$400		
✓ 14 L633548	1	0	\$400		
✓ 15 L633549	1	0	\$400		
Column Totals		0	\$6,000		

17187

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MINING LANDS BRANCH

I, \_\_\_\_\_, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: P. COSTA Date: April 11/97

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For Office Use Only

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	Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)		

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eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
✓ 1 L633550	1	0	\$400		
✓ 2 L633551	1	0	\$400		
- 3 L633552	1	0	\$400		
- 4 L633553	1	0	\$400		
✓ 5 L633554	1	0	\$400		
- 6 L633555	1	0	\$400		
- 7 L633556	1	0	\$400		
- 8 L633557	1	0	\$400		
- 9 L633558	1	0	\$400		
- 10 L633559	1	0	\$400		
- 11 L633560	1	0	\$400		
- 12 L633561	1	0	\$400		
- 13 L633562	1	0	\$400		
- 14 L633563	1	0	\$400		
✓ 15 L633564	1	0	\$400		
<b>Column Totals</b>		0	\$6,000		

2.17107

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MINING LANDS BRANCH

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Signature of Recorded Holder or Agent Authorized in Writing: P. Lewis Date: April 11/97

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	Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)		

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eg	TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg	1234567	12	0	\$24,000	0	0
eg	1234568	2	\$8,892	\$4,000	0	\$4,892
✓ 1	L633464	1	0	\$400		
✓ 2	L633465	1	0	\$400		
✓ 3	L633466	1	0	\$400		
✓ 4	L633467	1	0	\$400		
✓ 5	L633468	1	0	\$400		
✓ 6	L633469	1	0	\$400		
✓ 7	L633470	1	0	\$400		
✓ 8	L633471	1	0	\$400		
✓ 9	L633472	1	0	\$400		
✓ 10	L633473	1	0	\$400		
✓ 11	L633474	1	0	\$400		
✓ 12	L633475	1	0	\$400		
✓ 13	L633476	1	0	\$400		
✓ 14	L633477	1	0	\$400		
✓ 15	L633478	1	0	\$400		
<b>Column Totals</b>			0	<del>\$6,000</del>		

2.18137

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 MINING LANDS BRANCH

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Signature of Recorded Holder or Agent Authorized in Writing: [Signature] Date: April 11/97

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**For Office Use Only**

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Approved for Recording by Mining Recorder (Signature)		

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eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
✓ 1 L633565	1	0	\$400		
✓ 2 L633566	1	0	\$400		
✓ 3 L633627	1	0	\$400		
✓ 4 L633641	1	0	\$400		
- 5 L633642	1	0	\$400		
✓ 6 L633643	1	0	\$400		
- 7 L633644	1	0	\$400		
- 8 L633645	1	0	\$400		
- 9 L633646	1	0	\$400		
- 10 L633647	1	0	\$400		
- 11 L633648	1	0	\$400		
• 12 L633649	1	0	\$400		
✓ 13 L633650	1	0	\$400		
✓ 14 L633651	1	0	\$400		
✓ 15 L633652	1	0	\$400		
<b>Column Totals</b>		0	<del>\$6000</del>		

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APR 22 1997  
MINING LANDS BRANC

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Signature of Recorded Holder or Agent Authorized in Writing

Date

*[Handwritten Signature]*

*[Handwritten Date: April 11, 1997]*

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Date Approved	Total Value of Credit Approved
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eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
✓ 1 L633653	1	0	\$400		
✓ 2 L633654	1	0	\$400		
✓ 3 L633655	1	0	\$400		
✓ 4 L633656	1	0	\$400		
✓ 5 L634364	1	0	\$400		
✓ 6 L634365	1	0	\$400		
✓ 7 L634366	1	0	\$400		
✓ 8 L634367	1	0	\$400		
✓ 9 L634368	1	0	\$400		
✓ 10 L634369	1	0	\$400		
✓ 11 L634370	1	0	\$400		
✓ 12 L634371	1	0	\$400		
✓ 13 L634372	1	0	\$400		
✓ 14 L634373	1	0	\$400		
✓ 15 L634374	1	0	\$400		
<b>Column Totals</b>		0	<del>\$6,000</del>		

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**RECEIVED**  
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 MINING LANDS BRANCH

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Signature of Recorded Holder or Agent Authorized in Writing

*[Handwritten Signature]*

Date

April 11/97

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eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
✓ 1 L634375	1	0	\$400		
- 2 L634376	1	0	\$400		
- 3 L634377	1	0	\$400		
- 4 L634378	1	0	\$400		
- 5 L634379	1	0	\$400		
- 6 L634380	1	0	\$400		
- 7 L634381	1	0	\$400		
- 8 L634382	1	0	\$400		
- 9 L634383	1	0	\$400		
- 10 L634384	1	0	\$400		
- 11 L634385	1	0	\$400		
- 12 L634386	1	0	\$400		
- 13 L634387	1	0	\$400		
- 14 L634388	1	0	\$400		
- 15 L634389	1	0	\$400		
<b>Column Totals</b>		0	<del>\$6000</del>		

17187

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APR 22 1997

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Signature of Recorded Holder or Agent Authorized in Writing: [Signature] Date: April 11 1997

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eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
✓ 1 L633479	1	0	\$400		
- 2 L633480	1	0	\$400		
- 3 L633481	1	0	\$400		
✓ 4 L633482	1	0	\$400		
- 5 L633483	1	0	\$400		
- 6 L633484	1	0	\$400		
- 7 L633485	1	0	\$400		
- 8 L633486	1	0	\$400		
- 9 L633487	1	0	\$400		
- 10 L633488	1	0	\$400		
- 11 L633489	1	0	\$400		
- 12 L633490	1	0	\$400		
- 13 L633491	1	0	\$400		
✓ 14 L633628	1	0	\$400		
✓ 15 L633629	1	0	\$400		
<b>Column Totals</b>		0	<del>\$6000</del>		

2. 17107

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MINING LANDS BRANCH

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Signature of Recorded Holder or Agent Authorized in Writing: *[Signature]* Date: April 11/92

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eg	1234567	12	0	\$24,000	0	0
eg	1234568	2	\$ 8,892	\$ 4,000	0	\$4,892
✓ 1	L633630	1	0	\$ 400		
✓ 2	L633631	1	0	\$ 400		
✓ 3	L633632	1	0	\$ 400		
✓ 4	L633633	1	0	\$ 400		
✓ 5	L633634	1	0	\$ 400		
✓ 6	L633637	1	0	\$ 400		
✓ 7	L633638	1	0	\$ 400		
✓ 8	L634392	1	0	\$ 400		
✓ 9	L634393	1	0	\$ 400		
✓ 10	L634394	1	0	\$ 400		
✓ 11	L636955	1	0	\$ 400		
✓ 12	L636956	1	0	\$ 400		
✓ 13	L636957	1	0	\$ 400		
✓ 14	L636958	1	0	\$ 400		
✓ 15	L636959	1	0	\$ 400		
Column Totals			0	\$ 6,000		

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APR 22 1997  
MINING LANDS BRANCH

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Signature of Recorded Holder or Agent Authorized in Writing: P. C. [Signature] Date: April 11/97

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eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
- 1 L636960	1	0	\$400		
- 2 L636961	1	0	\$400		
✓ 3 L636962	1	0	\$400		
✓ 4 L628595	1	0	\$400		
✓ 5 L628596	1	0	\$400		
✓ 6 L628597	1	0	\$400		
- 7 L628598	1	0	\$400		
✓ 8 L628599	1	0	\$400		
- 9 L628600	1	0	\$400		
✓ 10 L628601	1	0	\$400		
✓ 11 L628602	1	0	\$400		
✓ 12 L628603	1	0	\$400		
✓ 13 L628604	1	0	\$400		
✓ 14 L628605	1	0	\$400		
✓ 15 L628606	1	0	\$400		
<b>Column Totals</b>		0	<del>\$6000</del>		

2.171 - 7

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 MINING LANDS BRANCH

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Signature of Recorded Holder or Agent Authorized in Writing: P. Carst Date: April 11/97

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eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
1 L634390	1	0	\$400		
2 L634391	1	0	\$400		
3 L733738	1	0	\$400		
4 L733739	1	0	\$400		
5 L733740	1	0	\$400		
6 L733741	1	0	\$400		
7 L733742	1	0	\$400		
8 L733743	1	0	\$400		
9 L733744	1	0	\$400		
10 L733745	1	0	\$400		
11 L733746	1	0	\$400		
12 L733747	1	0	\$400		
13 L733748	1	0	\$400		
14 L733749	1	0	\$400		
15 L733750	1	0	\$400		
Column Totals		0	<del>\$6,000</del>		

2.187.400

**RECEIVED**  
 APR 22 1997  
 MINING LANDS BRANCH

I, \_\_\_\_\_, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing

*P. Cowley*

Date

April 11/97

**6. Instructions for cutting back credits that are not approved.**

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**For Office Use Only**

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)		

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
- 1 L733751	1	0	\$400		
- 2 L733752	1	0	\$400		
- 3 L733753	1	0	\$400		
- 4 L733754	1	0	\$400		
- 5 L733755	1	0	\$400		
- 6 L733756	1	0	\$400		
- 7 L733757	1	0	\$400		
- 8 L733758	1	0	\$400		
- 9 L733761	1	0	\$400		
- 10 L784535	1	0	\$400		
- 11 L784536	2	0	\$400		
- 12 L810232	1	0	\$400		
- 13 L810233	1	0	\$400		
- 14 L810234	1	0	\$400		
- 15 L810235	1	0	\$400		
Column Totals		0	<del>\$6,000</del>		

**RECEIVED**  
 APR 22 1997  
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Signature of Recorded Holder or Agent Authorized in Writing: [Signature] Date: April 11/97

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eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
- 1 L810236	1	0	\$400		
- 2 L810237	1	0	\$400		
- 3 L810238	1	0	\$400		
- 4 L810239	1	0	\$400		
- 5 L810240	1	0	\$400		
- 6 L810241	1	0	\$400		
- 7 L810242	1	0	\$400		
- 8 L810243	1	0	\$400		
- 9 L810244	1	0	\$400		
- 10 L810245	1	0	\$400		
- 11 L810246	1	0	\$400		
- 12 L810247	1	0	\$400		
- 13 L810248	1	0	\$400		
- 14 L810249	2	0	\$400		
- 15 L810250	1	0	\$400		
Column Totals		0	<del>\$6000</del>		

**RECEIVED**  
 APR 22 1997  
 MINING LANDS BRANCH

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Signature of Recorded Holder or Agent Authorized in Writing: [Signature] Date: April 11 1997

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**For Office Use Only**

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Approved for Recording by Mining Recorder (Signature)		

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eg	TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg	1234567	12	0	\$24,000	0	0
eg	1234568	2	\$8,892	\$4,000	0	\$4,892
- 1	L810251	1	0	\$400		
- 2	L810252	1	0	\$400		
- 3	L810253	1	0	\$400		
- 4	L810254	1	0	\$400		
- 5	L810255	1	0	\$400		
- 6	L810256	1	0	\$400		
- 7	L810257	1	0	\$400		
- 8	L810258	1	0	\$400		
- 9	L810259	1	0	\$400		
- 10	L810260	1	0	\$400		
- 11	L810261	1	0	\$400		
- 12	L810262	1	0	\$400		
- 13	L810263	1	0	\$400		
- 14	L810264	1	0	\$400		
- 15	L810265	1	0	\$400		
Column Totals			0	\$6000		

**RECEIVED**  
 APR 22 1997  
 MINING LANDS BRANCH

I, \_\_\_\_\_, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: [Signature] Date: April 11/97

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**For Office Use Only**

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)		

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eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
- 1 L810266	1	0	\$400		
- 2 L810267	1	0	\$400		
- 3 L810268	1	0	\$400		
- 4 L810269	1	0	\$400		
- 5 L810270	1	0	\$400		
- 6 L810271	1	0	\$400		
- 7 L810272	1	0	\$400		
- 8 L810273	1	0	\$400		
- 9 L814606	1	0	\$400		
- 10 L814607	1	0	\$400		
- 11 L814608	1	0	\$400		
- 12 L814609	1	0	\$400		
- 13 L814610	1	0	\$400		
- 14 L814611	1	0	\$400		
- 15 L814612	1	0	\$400		
Column Totals		\$17,892	\$6,000		

**RECEIVED**  
 APR 22 1992  
 MINING LANDS BR

I, \_\_\_\_\_, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: [Signature] Date: April 11/92

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eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
- 1 L814613	1	0	\$400		
- 2 L814614	1	0	\$400		
- 3 L814615	1	0	\$400		
- 4 L839437	1	0	\$400		
- 5 L839438	1	0	\$400		
- 6 L839439	1	0	\$400		
- 7 L839440	1	0	\$400		
- 8 L839441	1	0	\$400		
- 9 L839442	1	0	\$400		
- 10 L839443	1	0	\$400		
- 11 L839444	1	0	\$400		
- 12 L839445	1	0	\$400		
- 13 L839446	1	0	\$400		
- 14 L839447	1	0	\$400		
- 15 L839448	1	0	\$400		
<b>Column Totals</b>		0	\$6000		

RECEIVED
APR 22 1997
MINING LANDS BRANCH

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Signature of Recorded Holder or Agent Authorized in Writing: [Signature] Date: April 11/97

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eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
-1 L839449	1	0	\$400		
-2 L839450	1	0	\$400		
-3 L839451	1	0	\$400		
-4 L839452	1	0	\$400		
-5 L839453	1	0	\$400		
-6 L839454	1	0	\$400		
-7 L839455	1	0	\$400		
-8 L839456	1	0	\$400		
-9 L839457	1	0	\$400		
-10 L839458	1	0	\$400		
-11 L839459	1	0	\$400		
-12 L839460	1	0	\$400		
-13 L839461	1	0	\$400		
-14 L839462	1	0	\$400		
-15 L839463	1	0	\$400		
Column Totals		0	<del>46000</del>		

2.10<sup>187</sup>

RECEIVED  
APR 22 1997  
MINING LANDS BRANCH

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Signature of Recorded Holder or Agent Authorized in Writing: *[Signature]* Date: April 16 1997

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For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved



the mining land where work was performed, at the time work was performed. A map showing the contiguous mining must accompany this form.

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eg 1234568	2	\$8,892	\$4,000	0	\$4,892
1 L839464	1	0	\$400		
2 L839465	1	0	\$400		
3 L839466	1	0	\$400		
4 L839467	1	0	\$400		
5 L839468	1	0	\$400		
6 L839469	1	0	\$400		
7 L839470	1	0	\$400		
8 L839471	1	0	\$400		
9 L839472	1	0	\$400		
10 L839473	1	0	\$400		
11 L839474	1	0	\$400		
12 L839475	1	0	\$400		
13 L839487	1	0	\$400		
14 L839488	2	1718	\$400		
15 L839489	1	0	\$400		
<b>Column Totals</b>		0	\$6,000		

**RECEIVED**  
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Signature of Recorded Holder or Agent Authorized in Writing: P. CURTIS Date: April 11 1997

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**For Office Use Only**

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	Date Approved	Total Value of Credit Approved

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Work Type	Units of Work <small>Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.</small>	Cost Per Unit of work	Total Cost
Diamond Drilling	3670.4m	\$ 74.77/m	\$ 274 460
Salaries (including report preparation)	105 man days	\$ 185.71/day (\$ 5.31/m)	\$ 19 500
<b>Associated Costs (e.g. supplies, mobilization and demobilization).</b>			
Mobilization/demobilization		\$ 16.29/m	\$ 50,022
Ice bridge & logging road access		\$ 6.81/m	\$ 25,000
Winter road construction		\$ 8.11/m	\$ 29,758
Core trays		\$ 2.00/m	\$ 7 356
Fuel for coreshack		\$ 0.27/m	\$ 1 002
Transportation Costs			
<b>2 171 87</b>			
Food and Lodging Costs			
Food and lodging		\$ 1.24/m	\$ 4 558
Core shack rental		\$ 0.11/m	\$ 404
<b>Total Value of Assessment Work</b>			<b>\$ 412,060</b>

**RECEIVED**  
 APR 22 1997  
 MINING LANDS BRANCH

Note: Additional expenditures to be claimed at a later date, when assay report is filed.

**Calculations of Filing Discounts:**

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK  $\times 0.50 =$  Total \$ value of worked claimed.

**Note:**

- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

**Certification verifying costs:**

I, Paul Coak (please print full name), do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as Chief Geologist I am authorized (recorded holder, agent, or state company position with signing authority) to make this certification.

Signature: [Signature] Date: April 14 97

Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des Mines



Geoscience Assessment Office  
933 Ramsey Lake Road  
6th Floor  
Sudbury, Ontario  
P3E 6B5

Telephone: (888) 415-9846  
Fax: (705) 670-5863

August 6, 1997

NEWMONT EXPLORATION OF CANADA LIMITED  
c/o Royal Oak Mines Inc.  
o.O. Bag 2010  
Timmins, Ontario  
P4N 7X7

Dear Sir or Madam:

**Submission Number:** 2.17187

**Status**

**Subject: Transaction Number(s):** W9780.00286 Approval After Notice

---

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. **WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.**

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice.

Please note any revisions must be submitted in **DUPLICATE** to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Lucille Jerome by e-mail at [jerome\\_l@torv05.ndm.gov.on.ca](mailto:jerome_l@torv05.ndm.gov.on.ca) or by telephone at (705) 670-5858.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Blair Kite".

ORIGINAL SIGNED BY  
Blair Kite  
Supervisor, Geoscience Assessment Office  
Mining Lands Section

# Work Report Assessment Results

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**Submission Number:** 2.17187

**Date Correspondence Sent:** August 06, 1997

**Assessor:** Lucille Jerome

---

<b>Transaction Number</b>	<b>First Claim Number</b>	<b>Township(s) / Area(s)</b>	<b>Status</b>	<b>Approval Date</b>
W9780.00286	633444	NOSEWORTHY	Approval After Notice	August 06, 1997

**Section:**  
10 Physical PDRILL

**Correspondence to:**

Resident Geologist  
Kirkland Lake, ON

Assessment Files Library  
Sudbury, ON

**Recorded Holder(s) and/or Agent(s):**

Paul Coad  
TIMMINS, ONTARIO, CANADA

NEWMONT EXPLORATION OF CANADA LIMITED  
Timmins, Ontario

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# Distribution of Assessment Work Credit

The following credit distribution reflects the value of assessment work performed on the mining land(s).

**Date:** August 06, 1997

**Submission Number:** 2.17187

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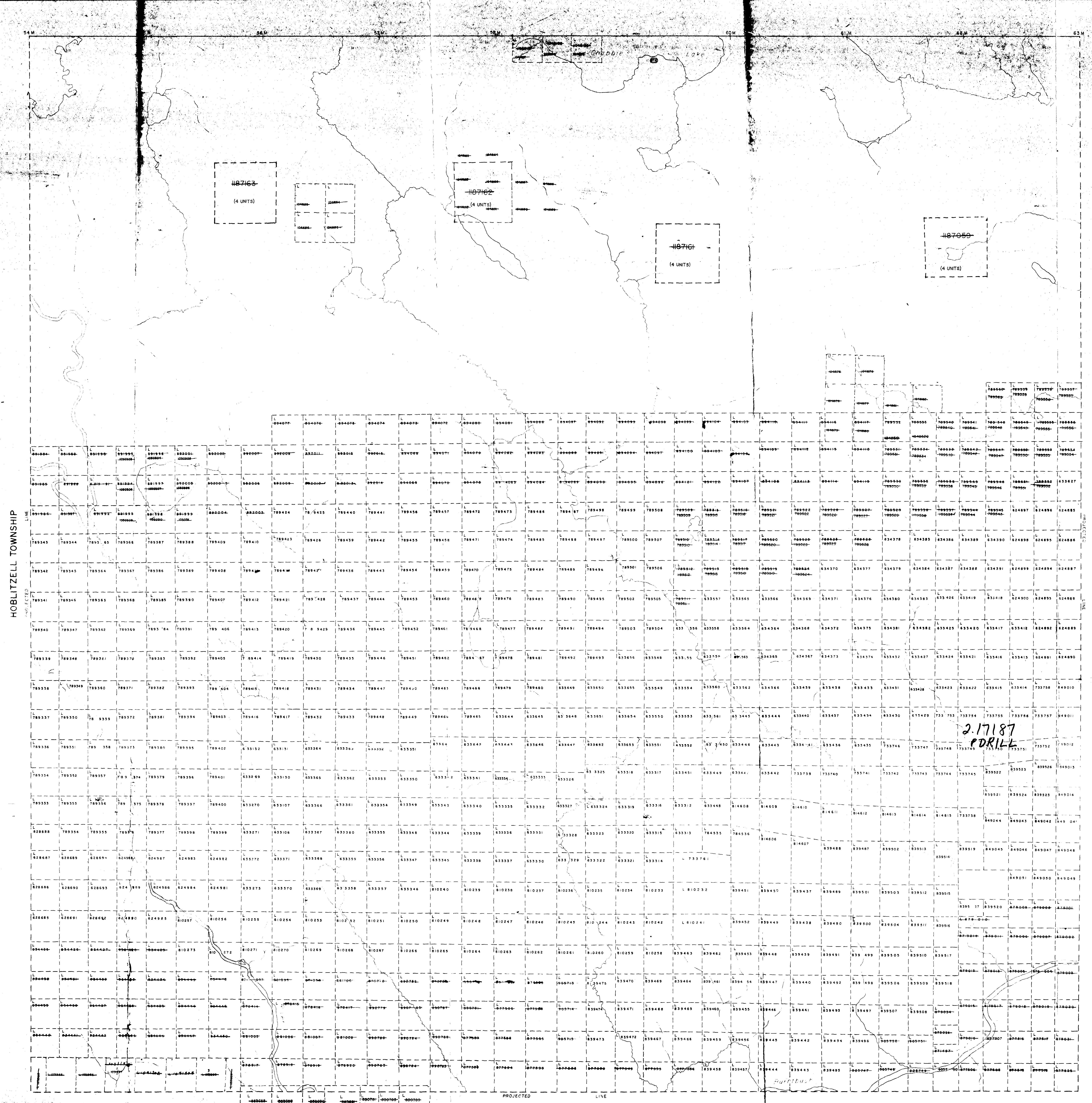
**Transaction Number:** W9780.00286

<u>Claim Number</u>	<u>Value Of Work Performed</u>
633444	17,400.00
633443	19,000.00
633440	30,000.00
633437	76,900.00
633438	10,800.00
633433	3,600.00
633434	95,800.00
633430	19,000.00
633427	16,200.00
633428	21,700.00
633414	25,500.00
624888	11,825.00
624889	26,000.00
	<hr/>
<b>Total: \$</b>	<b>373,725.00</b>

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REFERENCES

AREAS WITHDRAWN FROM DISPOSITION  
M.R.O. - SURFACE RIGHTS ONLY  
M.S. - MINING RIGHTS ONLY  
M.S. - MINING SURFACE RIGHTS  
Disposition Only Not Disposition File



**LEGEND**

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
- TOWNSHIP, BASE LINES, ETC.
- LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES
- LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERMANENT STREAM
- FLOODING OR FLOODING RIGHTS
- SUBSIDIARY SURVEYING PLAN
- RECORDING
- ORIGINAL SURVEY PLAN
- MARSH OR M-SKEE
- MINES
- TRAVEL MONUMENT

**DISPOSITION OF CROWN LANDS**

**TYPE OF DOCUMENT**

TYPE OF DOCUMENT	SYMBOL
PATENT SURFACE & MINING RIGHTS	●
SURFACE RIGHTS ONLY	○
MINING RIGHTS ONLY	○
LEASE SURFACE & MINING RIGHTS	○
SURFACE RIGHTS ONLY	○
MINING RIGHTS ONLY	○
LICENSE OF OCCUPATION	○
ORDER IN COUNCIL	○
REQUISITION	○
CANCELLED	○
SAND & GRAVEL	○
Remote tourist set-up	○

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MARCH 1912 EXIST IN ORIGINAL PATENTS BY THE PUBLIC LANDS ACT AND 1910 CHAP. 100 SEC. 43 SUBSEC. 1

Scale 1:20 000

2.17187  
DRILL

2.17187

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREIN.

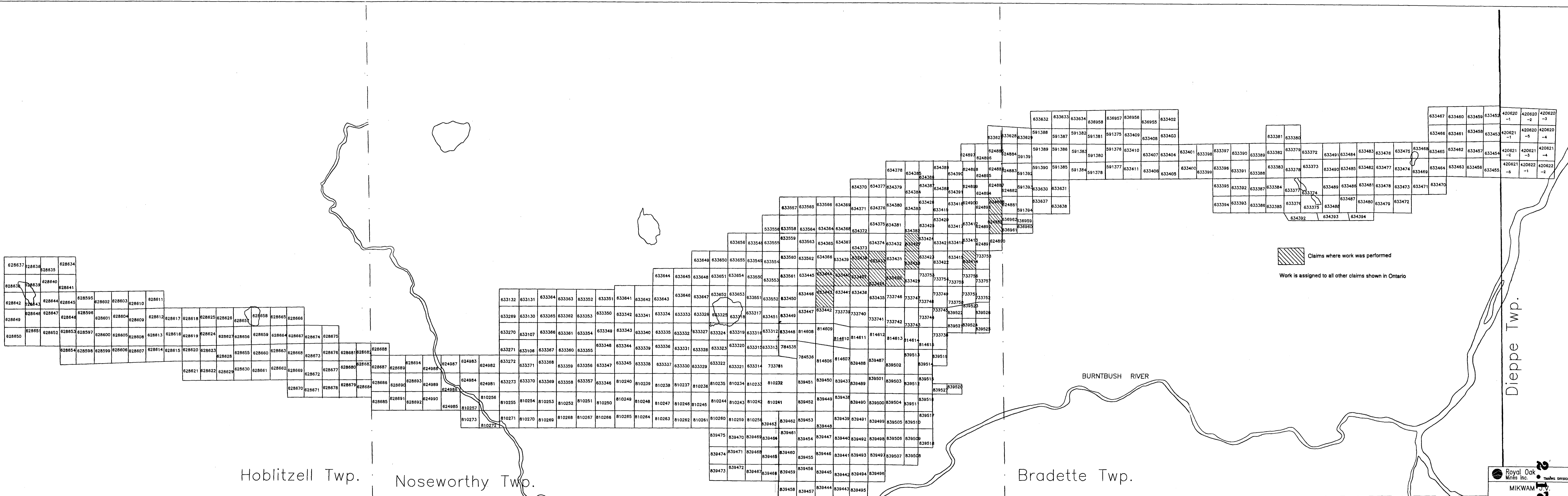
**NOSEWORTHY**  
M.N.R. ADMINISTRATIVE DISTRICT  
**COCHRANE**  
MINING DIVISION  
**LARDER LAKE**  
LAND OFFICER AND SURVEY DIVISION  
**COCHRANE**


Ministry of Natural Resources  
Ministry of Northern Development and Mines

SEPTEMBER, 1980  
**G-3549**



Received Oct 2/80




 Claims where work was performed  
 Work is assigned to all other claims shown in Ontario

Hoblitzell Twp.

Noseworthy Twp.

Bradette Twp.

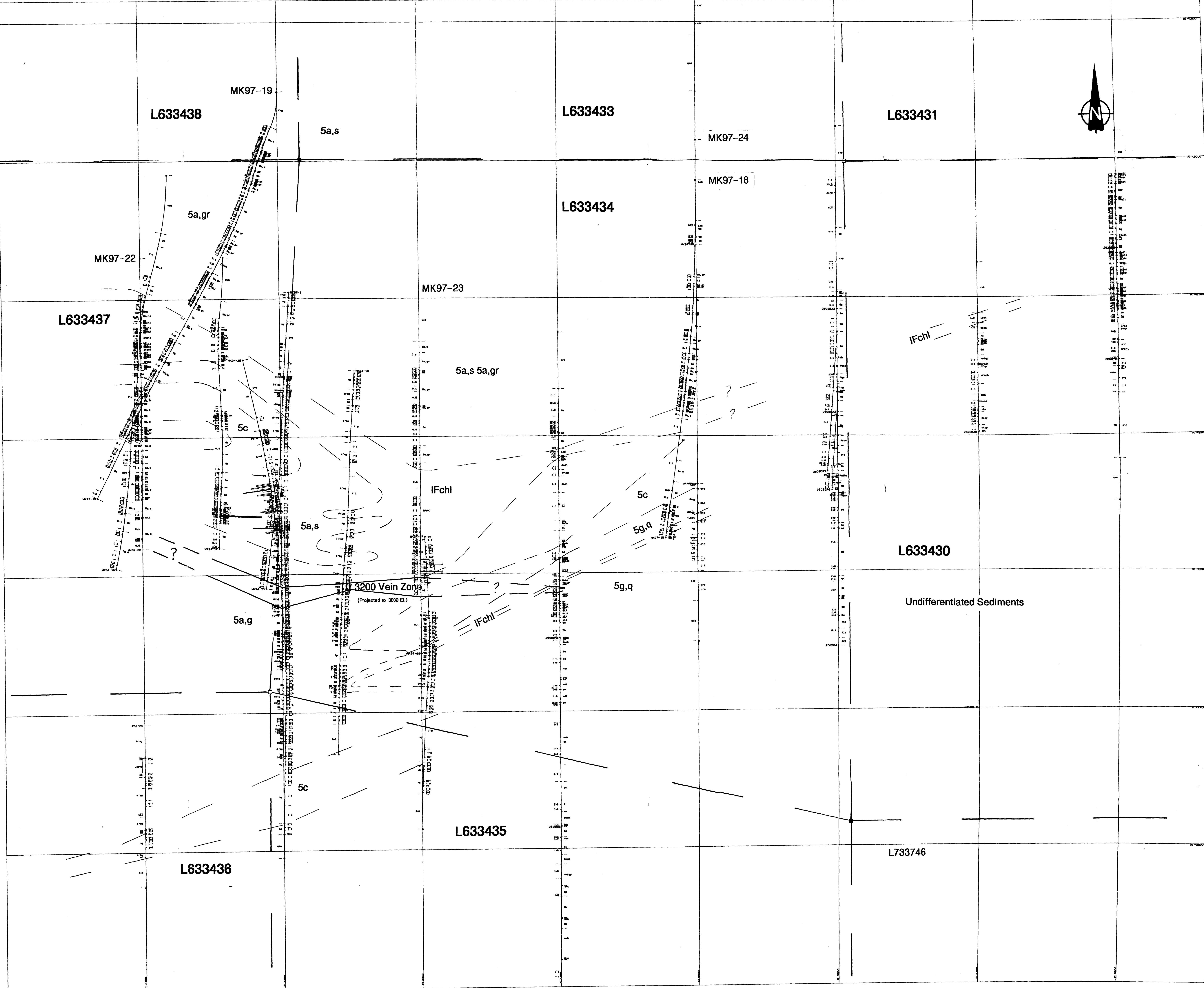
Dieppe Twp.

 Royal Oak  
 Mines Inc.

MIKWAM J.V.  
 CLAIM MAP

21187





Mikwam JV Legend  
1997 Drilling Program

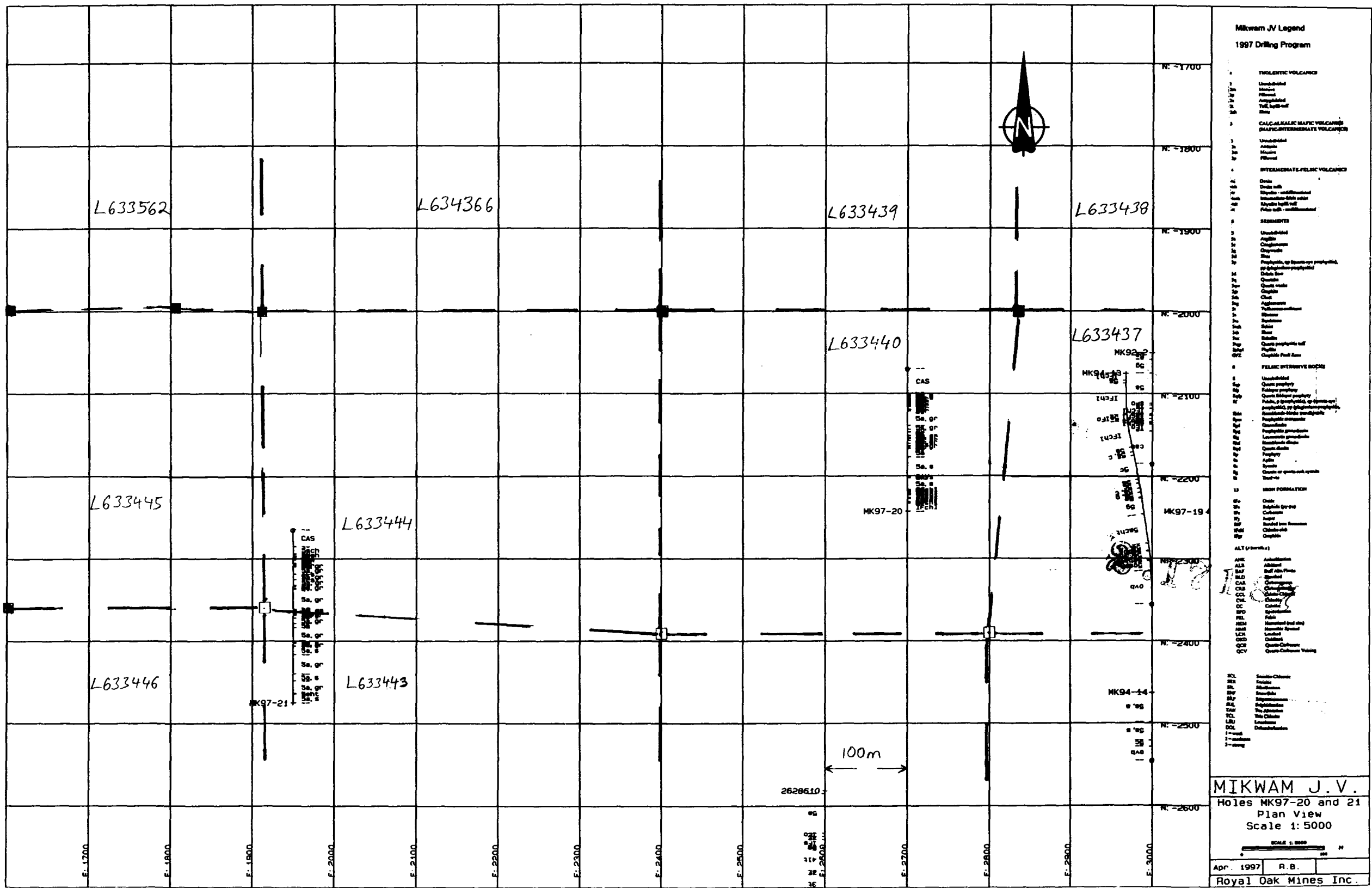
- 1 TROLEITIC VOLCANICS
  - 11 Undifferentiated
  - 12 Basalt
  - 13 Andesite/diabase
  - 14 Basaltic andesite
  - 15 Basalt
- 2 CALCIUM-ALKALIC BASIC VOLCANICS (DIABASE-ANDESITE VOLCANICS)
  - 21 Undifferentiated
  - 22 Basalt
  - 23 Andesite/diabase
  - 24 Basaltic andesite
- 3 INTERMEDIATE-FELIC VOLCANICS
  - 31 Undifferentiated
  - 32 Diabase
  - 33 Andesite/diabase
  - 34 Basaltic andesite
  - 35 Basalt
  - 36 Diabase
  - 37 Basaltic andesite
  - 38 Basalt
  - 39 Andesite/diabase
  - 40 Basaltic andesite
  - 41 Basalt
  - 42 Basaltic andesite
  - 43 Basalt
  - 44 Basaltic andesite
- 4 SEDIMENTS
  - 41 Undifferentiated
  - 42 Conglomerate
  - 43 Sandstone
  - 44 Sandstone (siltstone)
  - 45 Sandstone (siltstone)
  - 46 Sandstone (siltstone)
  - 47 Sandstone (siltstone)
  - 48 Sandstone (siltstone)
  - 49 Sandstone (siltstone)
  - 50 Sandstone (siltstone)
  - 51 Sandstone (siltstone)
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  - 94 Sandstone (siltstone)
  - 95 Sandstone (siltstone)
  - 96 Sandstone (siltstone)
  - 97 Sandstone (siltstone)
  - 98 Sandstone (siltstone)
  - 99 Sandstone (siltstone)
- 5 FELIC INTERIVE ROCKS
  - 51 Undifferentiated
  - 52 Quartz monzonite
  - 53 Quartz monzonite
  - 54 Quartz monzonite
  - 55 Quartz monzonite
  - 56 Quartz monzonite
  - 57 Quartz monzonite
  - 58 Quartz monzonite
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  - 91 Quartz monzonite
  - 92 Quartz monzonite
  - 93 Quartz monzonite
  - 94 Quartz monzonite
  - 95 Quartz monzonite
  - 96 Quartz monzonite
  - 97 Quartz monzonite
  - 98 Quartz monzonite
  - 99 Quartz monzonite
- 6 IRON FORMATION
  - 61 Oxide
  - 62 Sulfide (pyrite)
  - 63 Carbonate
  - 64 Magnetite
  - 65 Magnetite formation
  - 66 Magnetite
  - 67 Magnetite
- 7 ALT (Alternative)
  - 71 Andesite/diabase
  - 72 Basalt
  - 73 Basaltic andesite
  - 74 Basalt
  - 75 Basaltic andesite
  - 76 Basalt
  - 77 Basaltic andesite
  - 78 Basalt
  - 79 Basaltic andesite
  - 80 Basalt
  - 81 Basaltic andesite
  - 82 Basalt
  - 83 Basaltic andesite
  - 84 Basalt
  - 85 Basaltic andesite
  - 86 Basalt
  - 87 Basaltic andesite
  - 88 Basalt
  - 89 Basaltic andesite
  - 90 Basalt
  - 91 Basaltic andesite
  - 92 Basalt
  - 93 Basaltic andesite
  - 94 Basalt
  - 95 Basaltic andesite
  - 96 Basalt
  - 97 Basaltic andesite
  - 98 Basalt
  - 99 Basaltic andesite

2.17.187

MIKWAM JV  
Diamond Drilling Plan  
with 3000 Elevation Geology  
1:1000  
Scale 1:1000  
MAY 1997  
ROYAL OAK MINES, INC.







**Mikwam JV Legend**  
**1997 Drilling Program**

**TERTIARY VOLCANICS**  
Unaltered  
Altered  
Amphibolite  
Tuff, lapilli tuff  
Flow

**CALC-ALKALIC MAFIC VOLCANICS  
(MAFIC/INTERMEDIATE VOLCANICS)**  
Unaltered  
Altered  
Mylonite  
Pillowed

**INTERMEDIATE-FELSIC VOLCANICS**  
Diabase  
Diabase with  
Microcline - orthoclase  
Microcline-Mica matrix  
Kyanite lapilli tuff  
Felsic tuff - orthoclase  
Serpentinite

**UNALTERED**  
Amphibolite  
Gabbro  
Granite  
Chlorite  
Diabase  
Gabbro, or Granite or porphyritic  
or (diabase porphyritic)  
Diabase  
Gabbro  
Granite  
Quartz  
Quartz veins  
Orthoclase  
Chlorite  
Amphibolite  
Pillowed  
Serpentinite  
Schist  
Siltstone  
Silt  
Siltstone  
Diabase  
Quartz porphyrite tuff  
Pillows  
Quartzite Peak Zone

**FELSIC INTERMEDIATE ROCKS**  
Unaltered  
Quartz porphyry  
Felsic porphyry  
Quartz diorite porphyry  
Felsic (orthoclase, or orthoclase/  
microcline) porphyry  
Orthoclase-Mica  
Orthoclase-Mica  
Orthoclase  
Porphyritic granodiorite  
Leucocratic granodiorite  
Microcline diorite  
Quartz diorite  
Porphyry  
Apatite  
Serpentite  
Gabbro or granodiorite spongy  
Tuffite

**IGNEOUS FORMATION**  
Diabase  
Subvolcanic (e.g. vein)  
Curtain  
Lager  
Banded iron formation  
Orthoclase  
Orthoclase

**ALT. (Various)**  
Amphibolite  
Altered  
Schist  
Siltstone  
Chlorite  
Granite  
Gabbro  
Orthoclase  
Diabase  
Curtain  
Schist  
Felsic  
Microcline (epi and)  
Microcline (epi and)  
Leucocratic  
Lager  
Curtain  
Quartz-Curtain  
Quartz-Curtain Veining

**MINERALOGY**  
Microcline  
Microcline  
Orthoclase  
Orthoclase  
Orthoclase  
Orthoclase  
Orthoclase  
Orthoclase  
Orthoclase  
Orthoclase  
Orthoclase  
Orthoclase  
Orthoclase  
Orthoclase  
Orthoclase  
Orthoclase  
Orthoclase

**MIKWAM J.V.**  
Holes MK97-20 and 21  
Plan View  
Scale 1:5000

SCALE 1:5000

Apr. 1997 R.B.

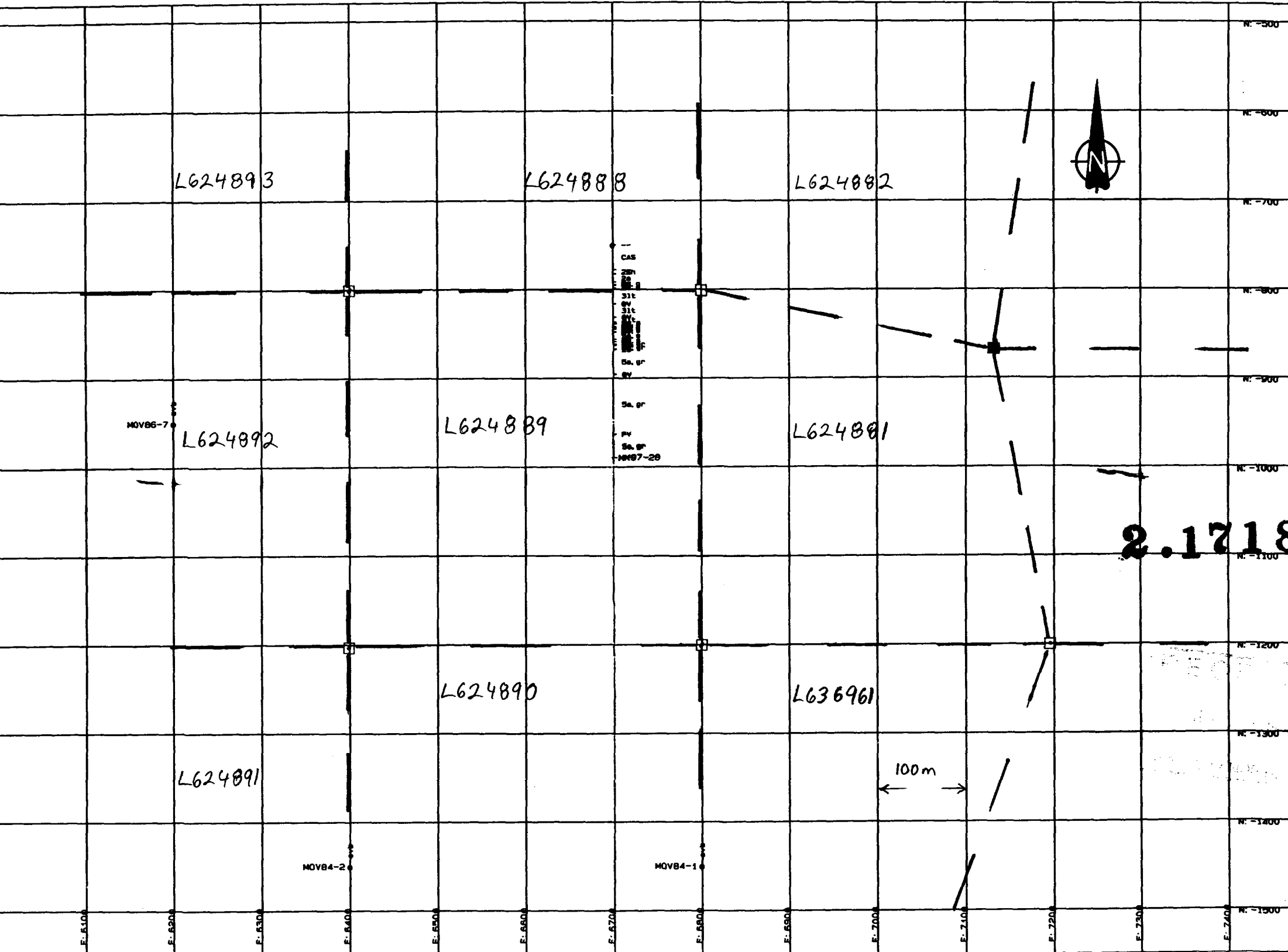
Royal Oak Mines Inc.

Claim Locations from Markov (1983)









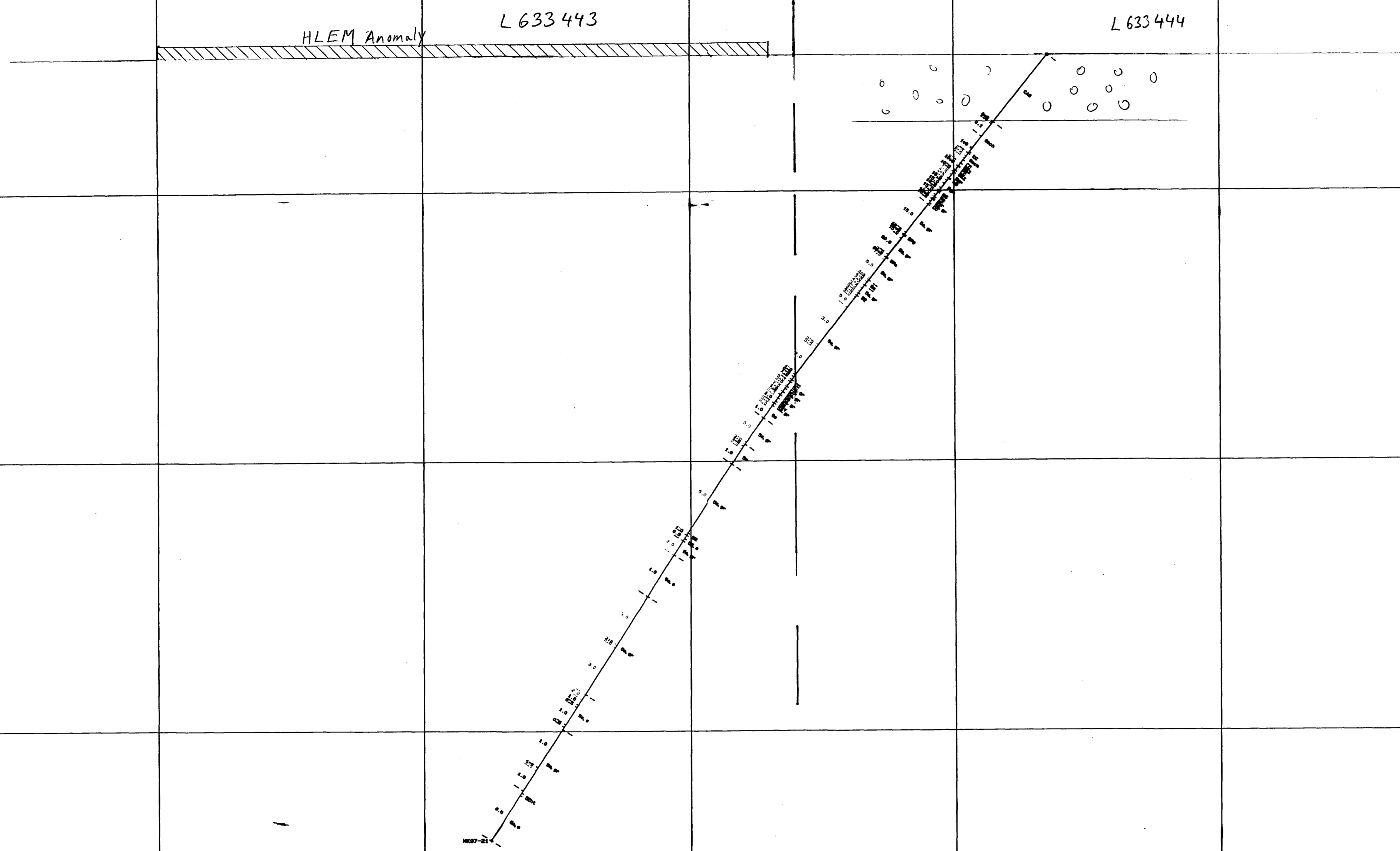
**Mikwam JV Legend**  
**1987 Drilling Program**

- HYDROTHERMAL VOLCANICS
  - Unaltered
  - Altered
  - Quartzite
  - Schist
- CALCALKALIC MAFTIC VOLCANICS
- MAFTIC INTERMEDIATE VOLCANICS
  - Unaltered
  - Altered
  - Schist
  - Quartzite
- INTERMEDIATE-PLUMIC VOLCANICS
  - Schist
  - Quartzite
  - Unaltered
  - Altered
  - Schist
  - Quartzite
  - Schist
  - Quartzite
  - Schist
- SEDIMENTS
  - Unaltered
  - Schist
  - Quartzite
  - Schist
  - Quartzite
  - Schist
  - Quartzite
  - Schist
  - Quartzite
  - Schist
- PLUMIC BYTERRIVE ROCKS
  - Unaltered
  - Quartzite
  - Schist
  - Quartzite
  - Schist
  - Quartzite
  - Schist
  - Quartzite
  - Schist
  - Quartzite
  - Schist
- SHALE FORMATION
  - Schist
  - Quartzite
  - Schist
  - Quartzite
  - Schist
  - Quartzite
  - Schist
  - Quartzite
  - Schist
  - Quartzite
  - Schist
- ALL (shales)
  - Schist
  - Quartzite
  - Schist
  - Quartzite
  - Schist
  - Quartzite
  - Schist
  - Quartzite
  - Schist
  - Quartzite
  - Schist

**MIKWAM J.V.**  
Holes MK97-28  
Plan View  
Scale 1:5000  
Apr. 1997 R.B.  
Royal Oak Mines Inc.

Claim Locations from Markov (1983)



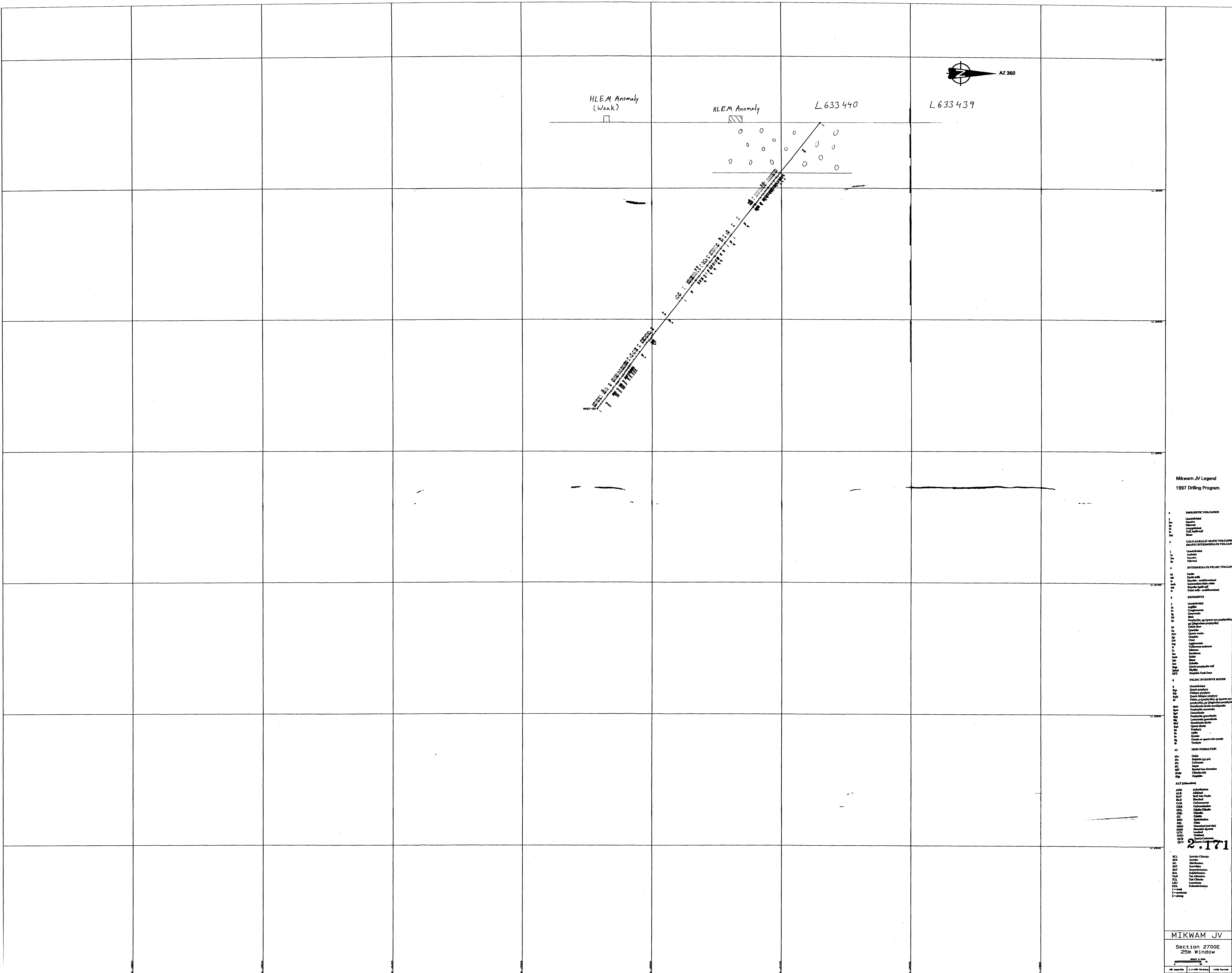


Mikwam JV Legend  
1997 Drilling Program

- 1 THERMOPHILIC VOLCANICS
- 2 Unconsolidated
- 3 Consolidated
- 4 Intermediate felsic volcanic
- 5 SEDIMENTS
- 6 FELSIC INTRUSIVE ROCKS
- 7 ISON FORMATION
- 8 ALT (unconsolidated)
- 9 ALT (consolidated)
- 10 ALT (unconsolidated)
- 11 ALT (consolidated)
- 12 ALT (unconsolidated)
- 13 ALT (consolidated)
- 14 ALT (unconsolidated)
- 15 ALT (consolidated)
- 16 ALT (unconsolidated)
- 17 ALT (consolidated)
- 18 ALT (unconsolidated)
- 19 ALT (consolidated)
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- 27 ALT (consolidated)
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- 29 ALT (consolidated)
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- 37 ALT (consolidated)
- 38 ALT (unconsolidated)
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- 40 ALT (unconsolidated)
- 41 ALT (consolidated)
- 42 ALT (unconsolidated)
- 43 ALT (consolidated)
- 44 ALT (unconsolidated)
- 45 ALT (consolidated)
- 46 ALT (unconsolidated)
- 47 ALT (consolidated)
- 48 ALT (unconsolidated)
- 49 ALT (consolidated)
- 50 ALT (unconsolidated)

MIKWAM JV  
Section 1950E  
25m Window  
Scale 1:5000  
Royal Oak Mines Inc.



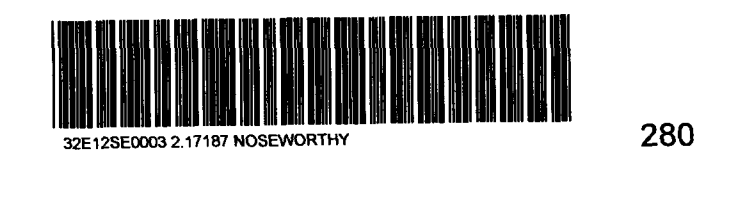


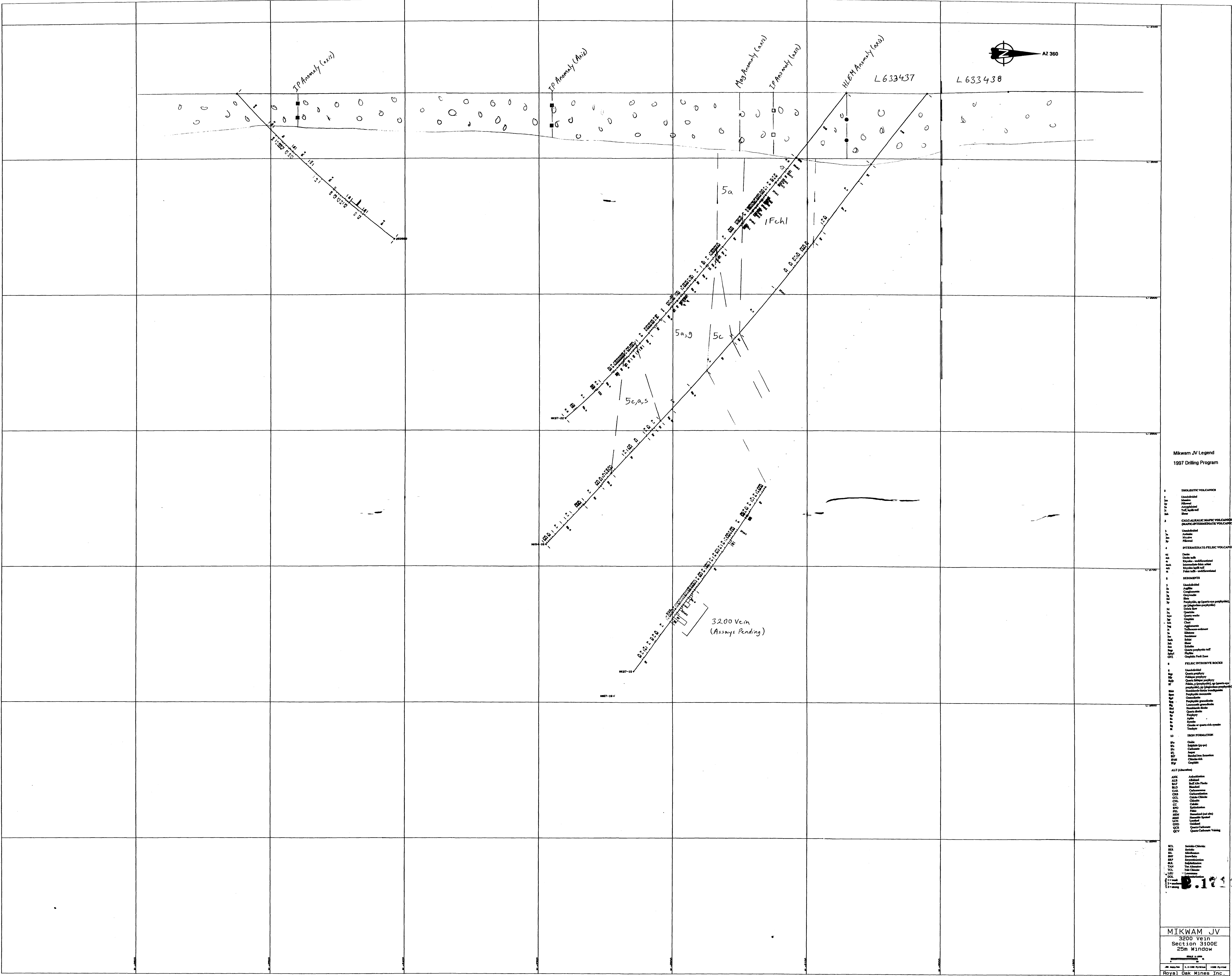
Mikwam JV Legend  
1997 Drilling Program

- 1 ILLUSTRATIVE VOLCANICS
  - 1.1 Unalutite
  - 1.2 Basalt
  - 1.3 Basaltic andesite
  - 1.4 Andesite
  - 1.5 Basaltic andesite
  - 1.6 Basalt
- 2 CALC-ALKALIC MAFC VOLCANICS
  - 2.1 Basalt
  - 2.2 Basaltic andesite
  - 2.3 Andesite
  - 2.4 Basaltic andesite
  - 2.5 Basalt
- 3 INTERMEDIATE-FELSIC VOLCANICS
  - 3.1 Basalt
  - 3.2 Basaltic andesite
  - 3.3 Andesite
  - 3.4 Basaltic andesite
  - 3.5 Basalt
- 4 SEDIMENTARY
  - 4.1 Unalutite
  - 4.2 Conglomerate
  - 4.3 Sandstone
  - 4.4 Siltstone
  - 4.5 Shale
  - 4.6 Sandstone
  - 4.7 Siltstone
  - 4.8 Shale
  - 4.9 Sandstone
  - 4.10 Siltstone
  - 4.11 Shale
  - 4.12 Sandstone
  - 4.13 Siltstone
  - 4.14 Shale
  - 4.15 Sandstone
  - 4.16 Siltstone
  - 4.17 Shale
  - 4.18 Sandstone
  - 4.19 Siltstone
  - 4.20 Shale
- 5 FELSIC INTERSIVE ROCKS
  - 5.1 Unalutite
  - 5.2 Basaltic andesite
  - 5.3 Andesite
  - 5.4 Basaltic andesite
  - 5.5 Basalt
  - 5.6 Basaltic andesite
  - 5.7 Andesite
  - 5.8 Basaltic andesite
  - 5.9 Basalt
  - 5.10 Basaltic andesite
  - 5.11 Andesite
  - 5.12 Basaltic andesite
  - 5.13 Basalt
  - 5.14 Basaltic andesite
  - 5.15 Andesite
  - 5.16 Basaltic andesite
  - 5.17 Basalt
  - 5.18 Basaltic andesite
  - 5.19 Andesite
  - 5.20 Basaltic andesite
- 6 ICHN FORMATION
  - 6.1 Sandstone
  - 6.2 Siltstone
  - 6.3 Shale
  - 6.4 Sandstone
  - 6.5 Siltstone
  - 6.6 Shale
  - 6.7 Sandstone
  - 6.8 Siltstone
  - 6.9 Shale
  - 6.10 Sandstone
  - 6.11 Siltstone
  - 6.12 Shale
  - 6.13 Sandstone
  - 6.14 Siltstone
  - 6.15 Shale
  - 6.16 Sandstone
  - 6.17 Siltstone
  - 6.18 Shale
  - 6.19 Sandstone
  - 6.20 Siltstone
- 7 ALL OTHERS
  - 7.1 Unalutite
  - 7.2 Basaltic andesite
  - 7.3 Andesite
  - 7.4 Basaltic andesite
  - 7.5 Basalt
  - 7.6 Basaltic andesite
  - 7.7 Andesite
  - 7.8 Basaltic andesite
  - 7.9 Basalt
  - 7.10 Basaltic andesite
  - 7.11 Andesite
  - 7.12 Basaltic andesite
  - 7.13 Basalt
  - 7.14 Basaltic andesite
  - 7.15 Andesite
  - 7.16 Basaltic andesite
  - 7.17 Basalt
  - 7.18 Basaltic andesite
  - 7.19 Andesite
  - 7.20 Basaltic andesite

MIKWAM JV  
Section 2700E  
25m Window  
1:50,000  
Royal Oak Mines Inc.

2-17187





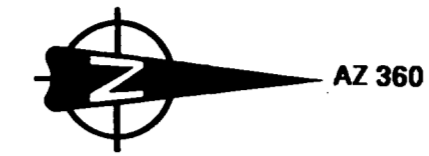
**Mikwam JV Legend  
1997 Drilling Program**

- 1 VOLCANIC VOLCANICS**
- 1 Unaltered
- 2 Metamorphosed
- 3 Anhydrous
- 4 High Sulphidation
- 5 Other
- 2 CALCALCIC BASIC VOLCANICS**
- 1 Unaltered
- 2 Anhydrous
- 3 Metamorphosed
- 4 High Sulphidation
- 5 Other
- 3 INTERMEDIATE FELSIC VOLCANICS**
- 1 Unaltered
- 2 Metamorphosed
- 3 Anhydrous
- 4 High Sulphidation
- 5 Other
- 4 SEDIMENTS**
- 1 Unaltered
- 2 Metamorphosed
- 3 Anhydrous
- 4 High Sulphidation
- 5 Other
- 6 Other
- 7 Other
- 8 Other
- 9 Other
- 10 Other
- 11 Other
- 12 Other
- 13 Other
- 14 Other
- 15 Other
- 16 Other
- 17 Other
- 18 Other
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- 87 Other
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- 89 Other
- 90 Other
- 91 Other
- 92 Other
- 93 Other
- 94 Other
- 95 Other
- 96 Other
- 97 Other
- 98 Other
- 99 Other
- 100 Other

**P.18108**

**MIKWAM JV**  
**3200 Vein**  
**Section 3100E**  
**25m Window**

08/19/02  
 1:1-100 Percent  
 1:100 Percent  
**Royal Oak Mines Inc.**

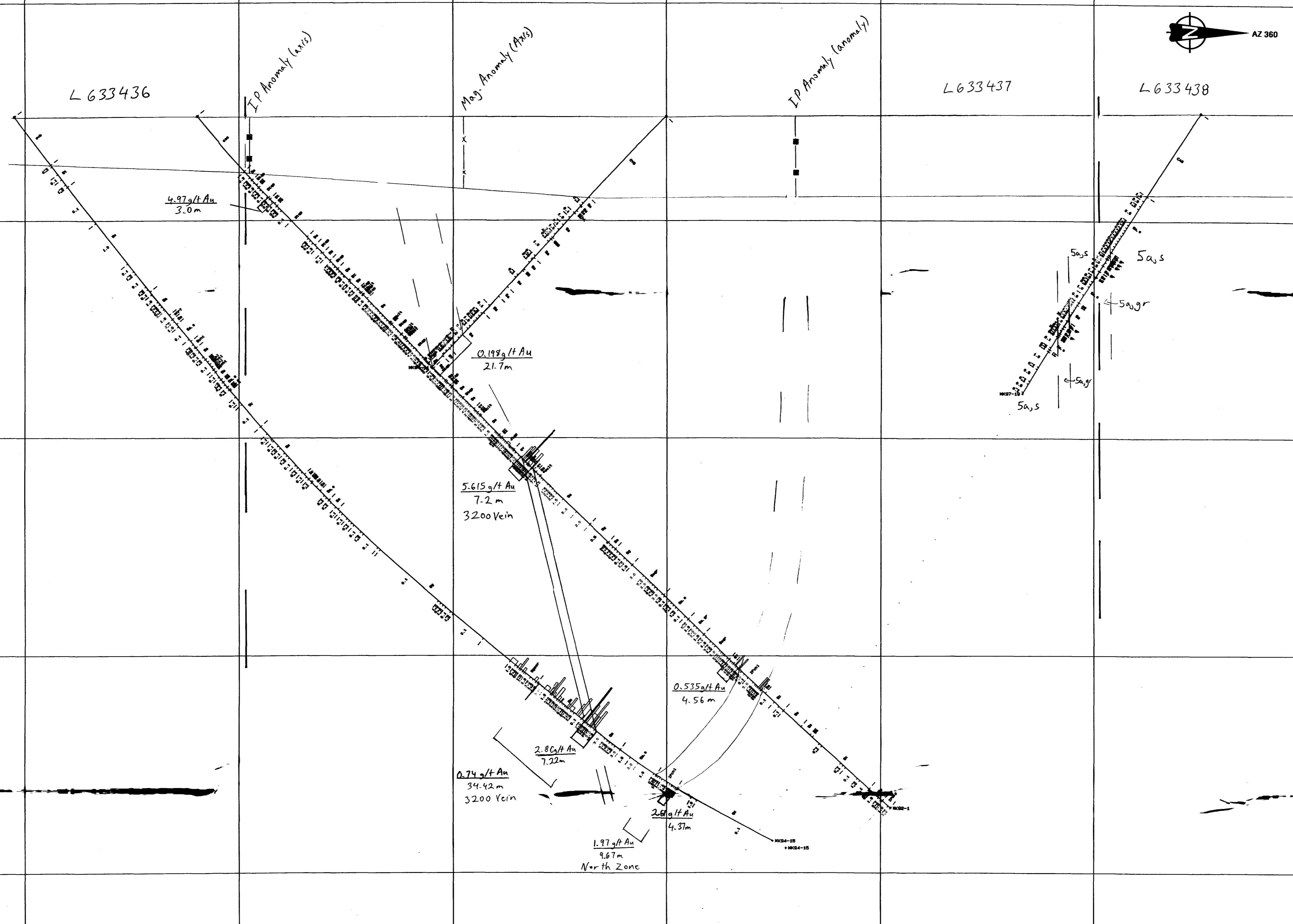


Mikwam JV Legend  
1997 Drilling Program

- 1 THOLEIITIC VOLCANICS
  - 1a Unalutite
  - 1b Basalt
  - 1c Felsite
  - 1d Andesite
  - 1e Basalt
- 2 CALCIUM ALKALIC MAFIC VOLCANICS
  - 2a Unalutite
  - 2b Andesite
  - 2c Basalt
  - 2d Felsite
- 3 INTERMEDIATE FELSIC VOLCANICS
  - 3a Basalt
  - 3b Andesite
  - 3c Felsite
  - 3d Basalt
  - 3e Andesite
  - 3f Felsite
- 4 SEDIMENTARY
  - 4a Unalutite
  - 4b Argillite
  - 4c Conglomerate
  - 4d Sandstone
  - 4e Siltstone
  - 4f Shale
  - 4g Quartzite
  - 4h Gneiss
  - 4i Amphibolite
  - 4j Metachert
  - 4k Siliceous shale
  - 4l Sandstone
  - 4m Siltstone
  - 4n Shale
  - 4o Basalt
  - 4p Quartzite
  - 4q Marble
  - 4r Gneiss
  - 4s Amphibolite
  - 4t Metachert
  - 4u Siliceous shale
  - 4v Sandstone
  - 4w Siltstone
  - 4x Shale
  - 4y Basalt
  - 4z Quartzite
- 5 FELSIC INTERTIVE ROCKS
  - 5a Unalutite
  - 5b Quartzite
  - 5c Marble
  - 5d Amphibolite
  - 5e Metachert
  - 5f Siliceous shale
  - 5g Sandstone
  - 5h Siltstone
  - 5i Shale
  - 5j Basalt
  - 5k Quartzite
  - 5l Marble
  - 5m Amphibolite
  - 5n Metachert
  - 5o Siliceous shale
  - 5p Sandstone
  - 5q Siltstone
  - 5r Shale
  - 5s Basalt
  - 5t Quartzite
  - 5u Marble
  - 5v Amphibolite
  - 5w Metachert
  - 5x Siliceous shale
  - 5y Sandstone
  - 5z Siltstone
- 6 IRON FORMATION
  - 6a Chert
  - 6b Magnetite (gr-p)
  - 6c Chert
  - 6d Magnetite
  - 6e Magnetite (gr-p)
  - 6f Chert
  - 6g Magnetite
  - 6h Magnetite (gr-p)
  - 6i Chert
  - 6j Magnetite
  - 6k Magnetite (gr-p)
  - 6l Chert
  - 6m Magnetite
  - 6n Magnetite (gr-p)
  - 6o Chert
  - 6p Magnetite
  - 6q Magnetite (gr-p)
  - 6r Chert
  - 6s Magnetite
  - 6t Magnetite (gr-p)
  - 6u Chert
  - 6v Magnetite
  - 6w Magnetite (gr-p)
  - 6x Chert
  - 6y Magnetite
  - 6z Magnetite (gr-p)
- 7 ALLY (Alloy)
  - 7a Alloy
  - 7b Alloy
  - 7c Alloy
  - 7d Alloy
  - 7e Alloy
  - 7f Alloy
  - 7g Alloy
  - 7h Alloy
  - 7i Alloy
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  - 7u Alloy
  - 7v Alloy
  - 7w Alloy
  - 7x Alloy
  - 7y Alloy
  - 7z Alloy
- 8 SCL Sediment Chert
  - 8a Sediment Chert
  - 8b Sediment Chert
  - 8c Sediment Chert
  - 8d Sediment Chert
  - 8e Sediment Chert
  - 8f Sediment Chert
  - 8g Sediment Chert
  - 8h Sediment Chert
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  - 8u Sediment Chert
  - 8v Sediment Chert
  - 8w Sediment Chert
  - 8x Sediment Chert
  - 8y Sediment Chert
  - 8z Sediment Chert

MIKWAM JV  
3200 Vejn  
Section 3050E  
25m Window  
Scale 1:5000  
1:1-1998 Project 1998 Project  
Royal Oak Mines Inc.





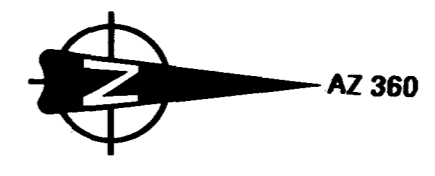
Mikwam JV Legend  
1997 Drilling Program

VOLCANIC VOLCANICS	
Unaltered	
Altered	
Altered (hydrothermal)	
Altered (sulfide)	
CALCALKALIC/METABASALTS VOLCANICS	
Unaltered	
Altered	
Altered (hydrothermal)	
Altered (sulfide)	
INTERMEDIATE FELSIC VOLCANICS	
Unaltered	
Altered	
Altered (hydrothermal)	
Altered (sulfide)	
SEDIMENTS	
Unaltered	
Altered	
Altered (hydrothermal)	
Altered (sulfide)	
Altered (oxidized)	
Altered (reduced)	
Altered (carbonaceous)	
Altered (siliceous)	
Altered (sulfidic)	
Altered (sulfuric)	
Altered (sulfuric/sulfidic)	
Altered (sulfuric/sulfidic/sulfuric)	
Altered (sulfuric/sulfidic/sulfuric/sulfuric)	
Altered (sulfuric/sulfidic/sulfuric/sulfuric/sulfuric)	
FELSIC INTERMEDIATE ROCKS	
Unaltered	
Altered	
Altered (hydrothermal)	
Altered (sulfide)	
Altered (oxidized)	
Altered (reduced)	
Altered (carbonaceous)	
Altered (siliceous)	
Altered (sulfidic)	
Altered (sulfuric)	
Altered (sulfuric/sulfidic)	
Altered (sulfuric/sulfidic/sulfuric)	
IRON FORMATION	
Unaltered	
Altered	
Altered (hydrothermal)	
Altered (sulfide)	
Altered (oxidized)	
Altered (reduced)	
Altered (carbonaceous)	
Altered (siliceous)	
Altered (sulfidic)	
Altered (sulfuric)	
Altered (sulfuric/sulfidic)	
Altered (sulfuric/sulfidic/sulfuric)	
ALT (Altered)	
Altered	
Altered (hydrothermal)	
Altered (sulfide)	
Altered (oxidized)	
Altered (reduced)	
Altered (carbonaceous)	
Altered (siliceous)	
Altered (sulfidic)	
Altered (sulfuric)	
Altered (sulfuric/sulfidic)	
Altered (sulfuric/sulfidic/sulfuric)	
SEDIMENTARY	
Unaltered	
Altered	
Altered (hydrothermal)	
Altered (sulfide)	
Altered (oxidized)	
Altered (reduced)	
Altered (carbonaceous)	
Altered (siliceous)	
Altered (sulfidic)	
Altered (sulfuric)	
Altered (sulfuric/sulfidic)	
Altered (sulfuric/sulfidic/sulfuric)	

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1997 JUN 18

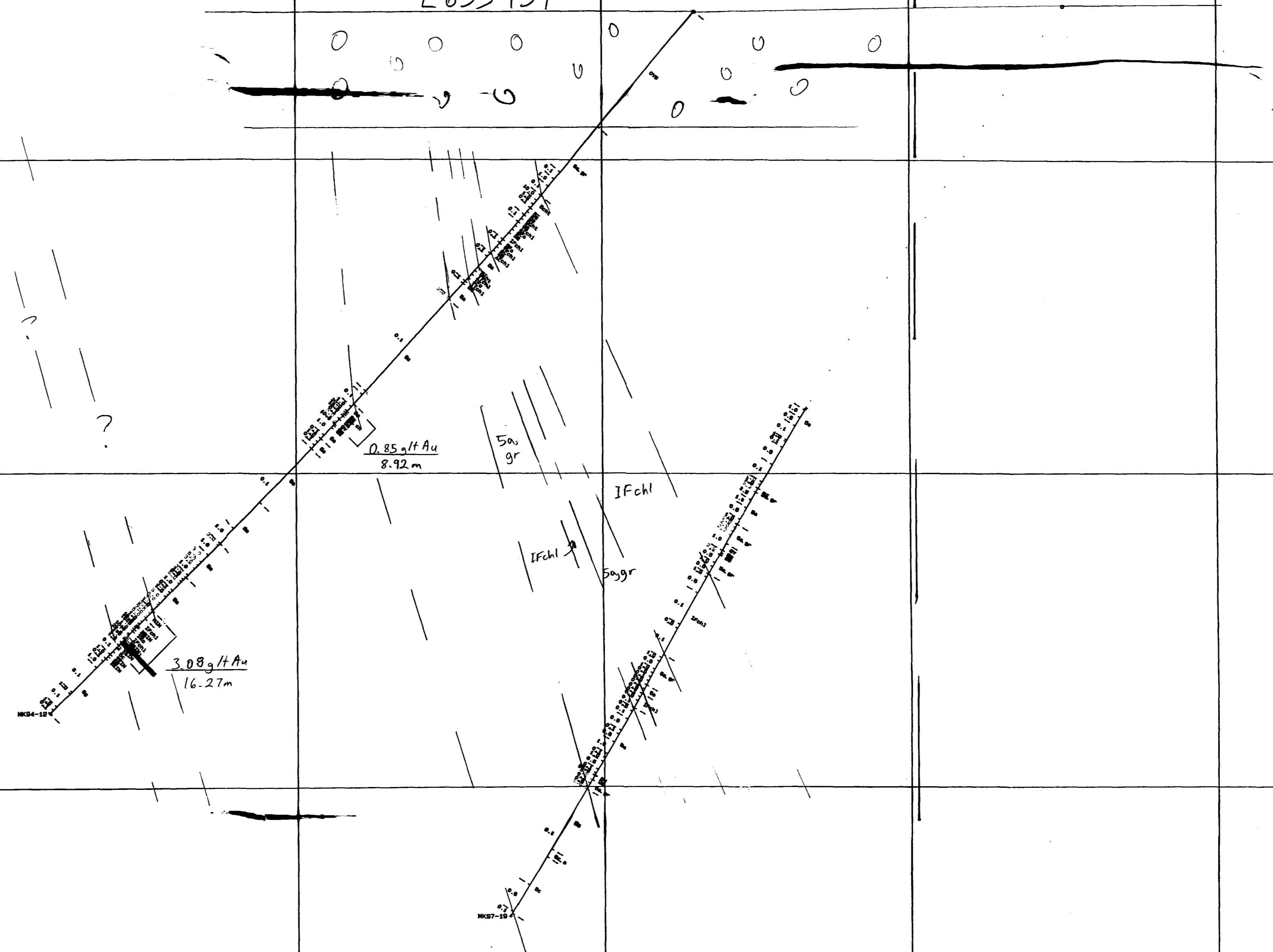
MIKWAM JV  
3200 Vein  
Section 3200E  
25m Window  
Royal Oak Mines Inc.





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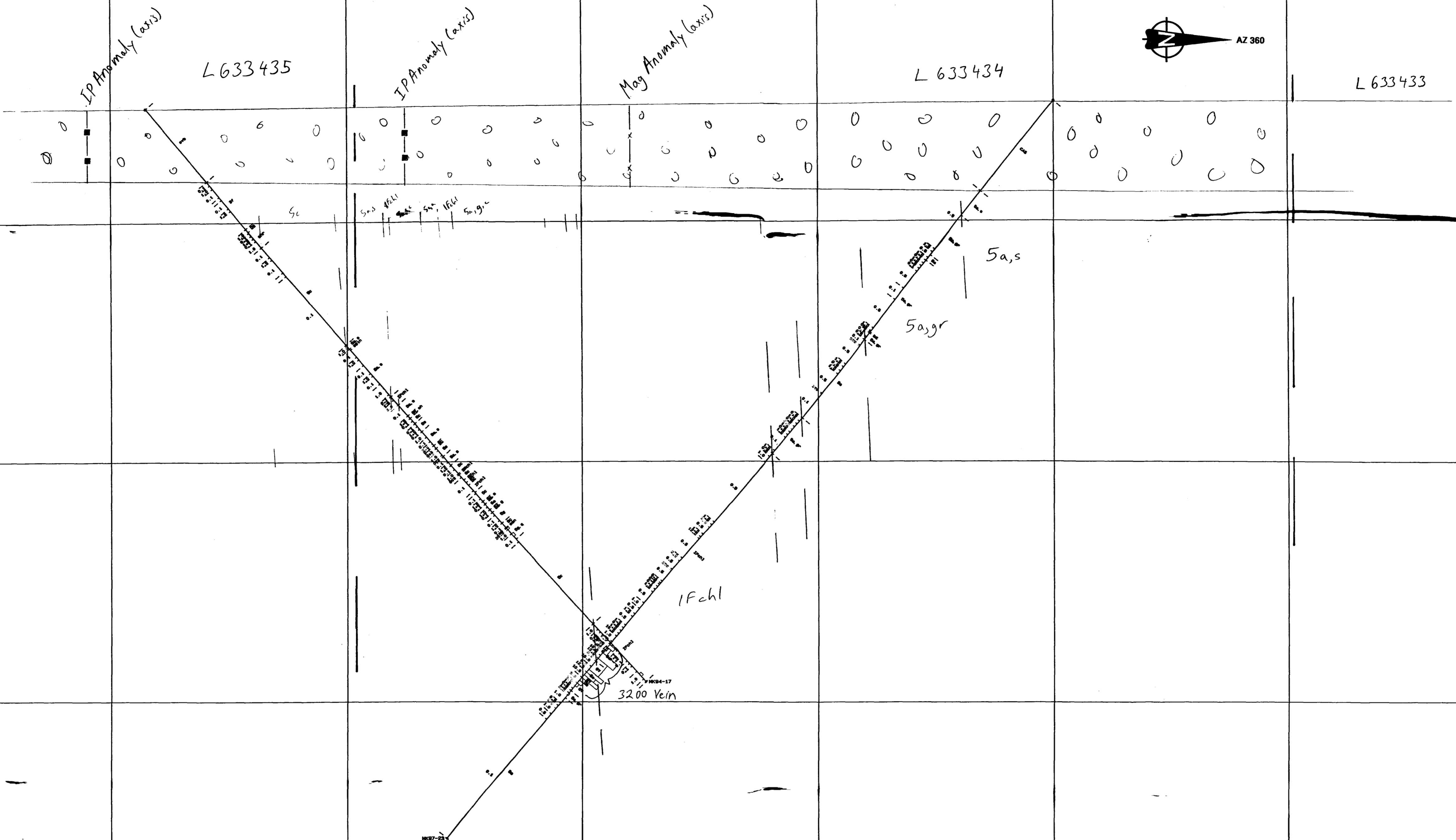
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**Mikwam JV Legend**  
1997 Drilling Program

- 1 TROILITIC VOLCANICS
  - 1a Unalutite
  - 1b Basalt
  - 1c Amphibolite
  - 1d Tuff
  - 1e Basalt
- 2 CALCIUM ALKALIC MAFIC VOLCANICS
  - 2a Unalutite
  - 2b Basalt
  - 2c Basalt
- 3 INTERMEDIATE FELSIC VOLCANICS
  - 3a Diabase
  - 3b Diabase with hornblende
  - 3c Hornblende dike rock
  - 3d Hornblende andesite
  - 3e Felsic with hornblende
- 4 SEDIMENTARY
  - 4a Unalutite
  - 4b Argillite
  - 4c Conglomerate
  - 4d Gneiss
  - 4e Sand
  - 4f Pyrophyllite, quartz, and/or pyrophyllite (pyrophyllite-pyrophyllite)
  - 4g Diabase breccia
  - 4h Quartzite
  - 4i Quartzite
  - 4j Quartzite
  - 4k Quartzite
  - 4l Quartzite
  - 4m Agglomerate
  - 4n Sandstone
  - 4o Sandstone
  - 4p Sandstone
  - 4q Sandstone
  - 4r Sandstone
  - 4s Sandstone
  - 4t Sandstone
  - 4u Sandstone
  - 4v Sandstone
  - 4w Sandstone
  - 4x Sandstone
  - 4y Sandstone
  - 4z Sandstone
- 5 FELSIC INTERTRIVE ROCKS
  - 5a Unalutite
  - 5b Quartzite
  - 5c Felsic gneiss
  - 5d Quartzite
  - 5e Quartzite
  - 5f Quartzite
  - 5g Quartzite
  - 5h Quartzite
  - 5i Quartzite
  - 5j Quartzite
  - 5k Quartzite
  - 5l Quartzite
  - 5m Quartzite
  - 5n Quartzite
  - 5o Quartzite
  - 5p Quartzite
  - 5q Quartzite
  - 5r Quartzite
  - 5s Quartzite
  - 5t Quartzite
  - 5u Quartzite
  - 5v Quartzite
  - 5w Quartzite
  - 5x Quartzite
  - 5y Quartzite
  - 5z Quartzite
- 6 IRON FORMATION
  - 6a Diabase
  - 6b Sandstone
  - 6c Sandstone
  - 6d Sandstone
  - 6e Sandstone
  - 6f Sandstone
  - 6g Sandstone
  - 6h Sandstone
  - 6i Sandstone
  - 6j Sandstone
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  - 6x Sandstone
  - 6y Sandstone
  - 6z Sandstone
- 7 ALT. FORMATION
  - 7a Sandstone
  - 7b Sandstone
  - 7c Sandstone
  - 7d Sandstone
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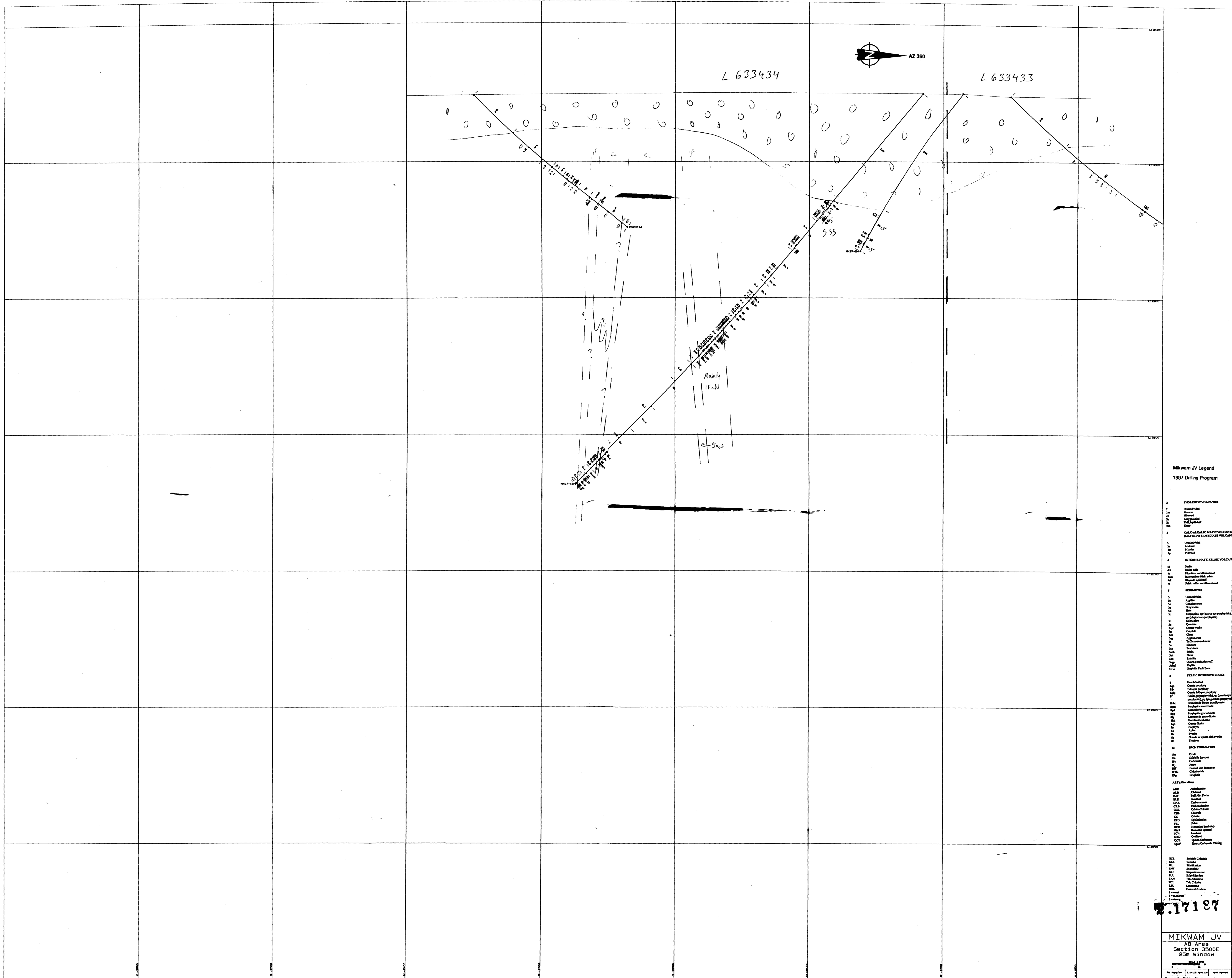


Mikwam JV Legend  
1997 Drilling Program

- 1 VOLCANIC VOLCANICS
- 2
- 3
- 4 CALDEARIC VOLCANICS
- 5
- 6 INTERMEDIATE FELSIC VOLCANICS
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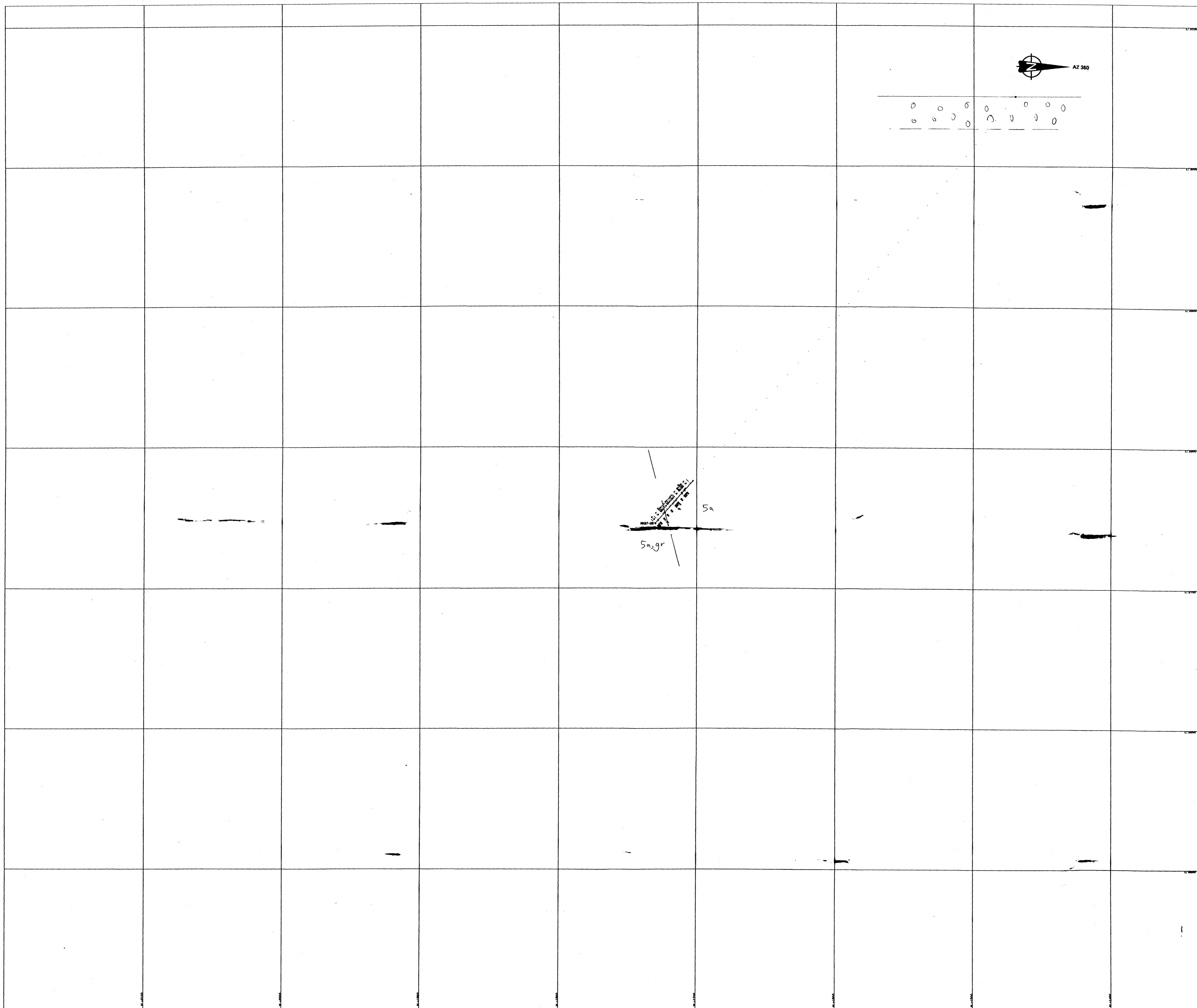


**Mikwam JV Legend**  
1997 Drilling Program

<b>1 THOLEIIC VOLCANICS</b>	
1	Unaltered
2	Altered
3	Amphibolite
4	Basalt
<b>2 CALCIUM ALKALIC BASALTIC VOLCANICS</b>	
1	Unaltered
2	Altered
3	Basalt
4	Flow
<b>3 INTERMEDIATE FELSIC VOLCANICS</b>	
1	Diabase
2	Andesite
3	Basalt
4	Flow
<b>4 SEDIMENTARY</b>	
1	Unaltered
2	Altered
3	Claystone
4	Shale
5	Siltstone
6	Sandstone
7	Gravel
8	Coal
9	Carbonaceous shale
10	Carbonaceous siltstone
11	Carbonaceous sandstone
12	Carbonaceous shale
13	Carbonaceous siltstone
14	Carbonaceous sandstone
15	Carbonaceous shale
16	Carbonaceous siltstone
17	Carbonaceous sandstone
18	Carbonaceous shale
19	Carbonaceous siltstone
20	Carbonaceous sandstone
21	Carbonaceous shale
22	Carbonaceous siltstone
23	Carbonaceous sandstone
24	Carbonaceous shale
25	Carbonaceous siltstone
26	Carbonaceous sandstone
27	Carbonaceous shale
28	Carbonaceous siltstone
29	Carbonaceous sandstone
30	Carbonaceous shale
31	Carbonaceous siltstone
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193	Carbonaceous siltstone
194	Carbonaceous sandstone
195	Carbonaceous shale
196	Carbonaceous siltstone
197	Carbonaceous sandstone
198	Carbonaceous shale
199	Carbonaceous siltstone
200	Carbonaceous sandstone

2.17187

MIKWAM JV  
AB Area  
Section 3500E  
25m Window  
Scale 1:5000  
Date 11/11/97  
Royal Oak Mines Inc.



Mikwam JV Legend  
1997 Drilling Program

- 1 TROUBLEDIC VOLCANICS
- 2 Unconformity
- 3 Sandstone
- 4 Siltstone
- 5 Shale
- 6 Sandstone
- 7 Shale
- 8 Sandstone
- 9 Shale
- 10 Sandstone
- 11 Shale
- 12 Sandstone
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- 100 Sandstone

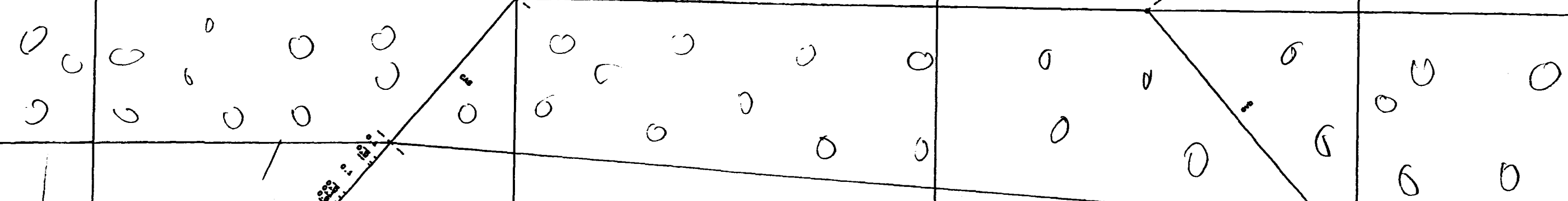
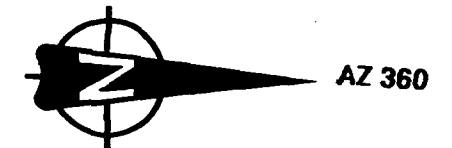
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MIKWAM JV  
Hole MK97-26  
SECTION 4300E  
25m Window  
Royal Oak Mines Inc.

L 733 746

L 633 430

IP Anomaly



Zinc of  
Disseminated  
Pyrite

Mikwam JV Legend  
1997 Drilling Program

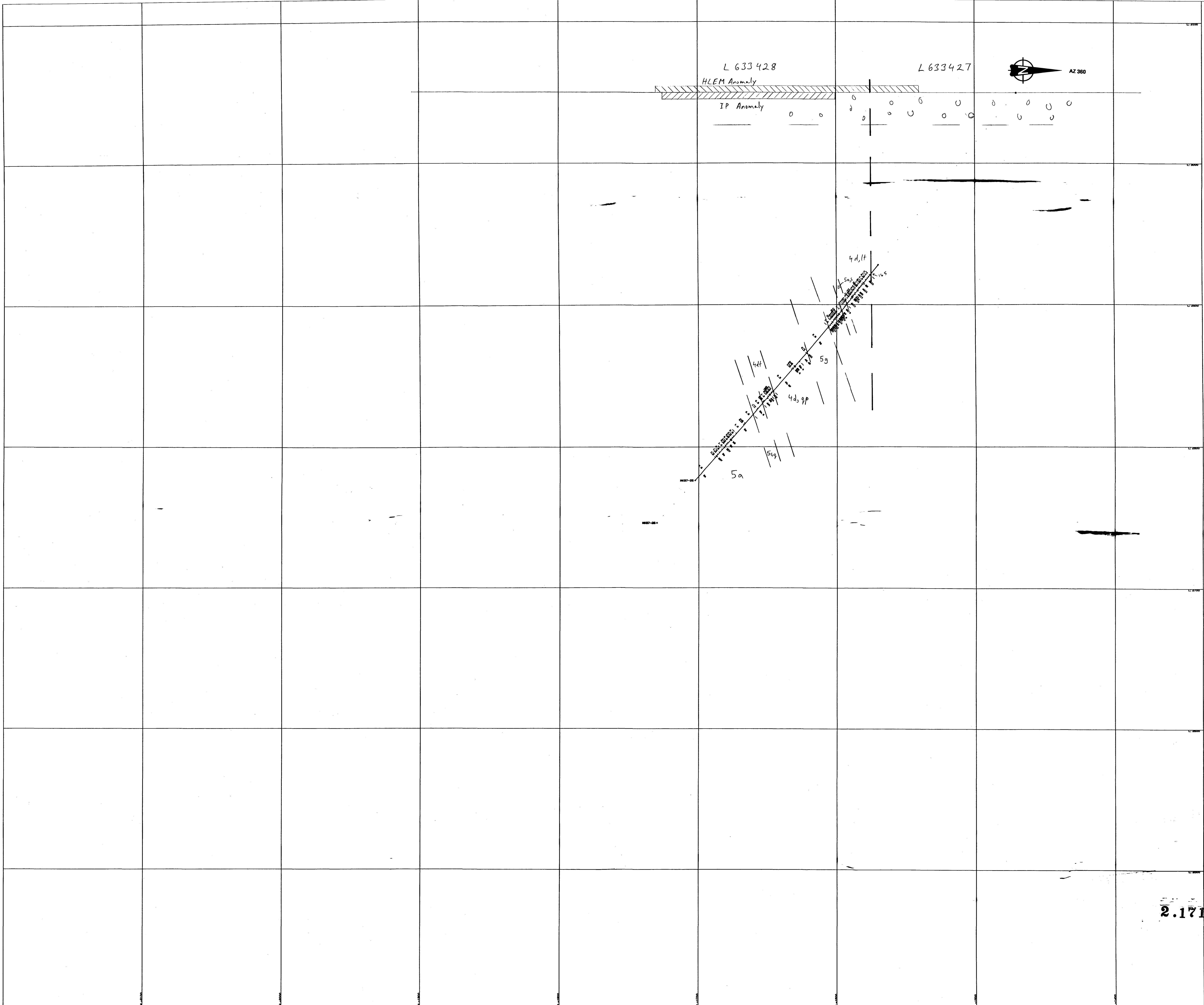
- 1 TROILITIC VOLCANICS
  - 1a Unalutak
  - 1b Mica
  - 1c Pliocene
  - 1d Amphibolite
  - 1e Tuff
  - 1f Sand
- 2 CALC-ALKALIC/MAFIC VOLCANICS  
MAFIC-INTERMEDIATE VOLCANICS
  - 2a Unalutak
  - 2b Andesite
  - 2c Mica
  - 2d Pliocene
- 3 INTERMEDIATE-FELIC VOLCANICS
  - 3a Duff
  - 3b Duff with
  - 3c Duff with andesite
  - 3d Duff with andesite
  - 3e Duff with andesite
- 4 SEDIMENTARY
  - 4a Unalutak
  - 4b Argillite
  - 4c Conglomerate
  - 4d Sandstone
  - 4e Sand
  - 4f Pyroclastic, of (partly) non-pyroclastic
  - 4g Pyroclastic, of (partly) non-pyroclastic
  - 4h Pyroclastic, of (partly) non-pyroclastic
  - 4i Pyroclastic, of (partly) non-pyroclastic
  - 4j Pyroclastic, of (partly) non-pyroclastic
  - 4k Pyroclastic, of (partly) non-pyroclastic
  - 4l Pyroclastic, of (partly) non-pyroclastic
  - 4m Pyroclastic, of (partly) non-pyroclastic
  - 4n Pyroclastic, of (partly) non-pyroclastic
  - 4o Pyroclastic, of (partly) non-pyroclastic
  - 4p Pyroclastic, of (partly) non-pyroclastic
  - 4q Pyroclastic, of (partly) non-pyroclastic
  - 4r Pyroclastic, of (partly) non-pyroclastic
  - 4s Pyroclastic, of (partly) non-pyroclastic
  - 4t Pyroclastic, of (partly) non-pyroclastic
  - 4u Pyroclastic, of (partly) non-pyroclastic
  - 4v Pyroclastic, of (partly) non-pyroclastic
  - 4w Pyroclastic, of (partly) non-pyroclastic
  - 4x Pyroclastic, of (partly) non-pyroclastic
  - 4y Pyroclastic, of (partly) non-pyroclastic
  - 4z Pyroclastic, of (partly) non-pyroclastic
- 5 FELIC INTERMEDIATE ROCKS
  - 5a Unalutak
  - 5b Quartz porphyry
  - 5c Felsic porphyry
  - 5d Felsic porphyry
  - 5e Felsic porphyry
  - 5f Felsic porphyry
  - 5g Felsic porphyry
  - 5h Felsic porphyry
  - 5i Felsic porphyry
  - 5j Felsic porphyry
  - 5k Felsic porphyry
  - 5l Felsic porphyry
  - 5m Felsic porphyry
  - 5n Felsic porphyry
  - 5o Felsic porphyry
  - 5p Felsic porphyry
  - 5q Felsic porphyry
  - 5r Felsic porphyry
  - 5s Felsic porphyry
  - 5t Felsic porphyry
  - 5u Felsic porphyry
  - 5v Felsic porphyry
  - 5w Felsic porphyry
  - 5x Felsic porphyry
  - 5y Felsic porphyry
  - 5z Felsic porphyry
- 6 IRON FORMATION
  - 6a Duff
  - 6b Duff (Duff)
  - 6c Duff
  - 6d Duff
  - 6e Duff
  - 6f Duff
  - 6g Duff
  - 6h Duff
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  - 6v Duff
  - 6w Duff
  - 6x Duff
  - 6y Duff
  - 6z Duff
- 7 ALLY (Alloys)
  - 7a Alloy
  - 7b Alloy
  - 7c Alloy
  - 7d Alloy
  - 7e Alloy
  - 7f Alloy
  - 7g Alloy
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  - 7u Alloy
  - 7v Alloy
  - 7w Alloy
  - 7x Alloy
  - 7y Alloy
  - 7z Alloy

MIKWAM JV  
Hole MK97-25  
Section 4000E  
25m Window  
Scale 1:5000  
RoyaL Oak Mine Inc.

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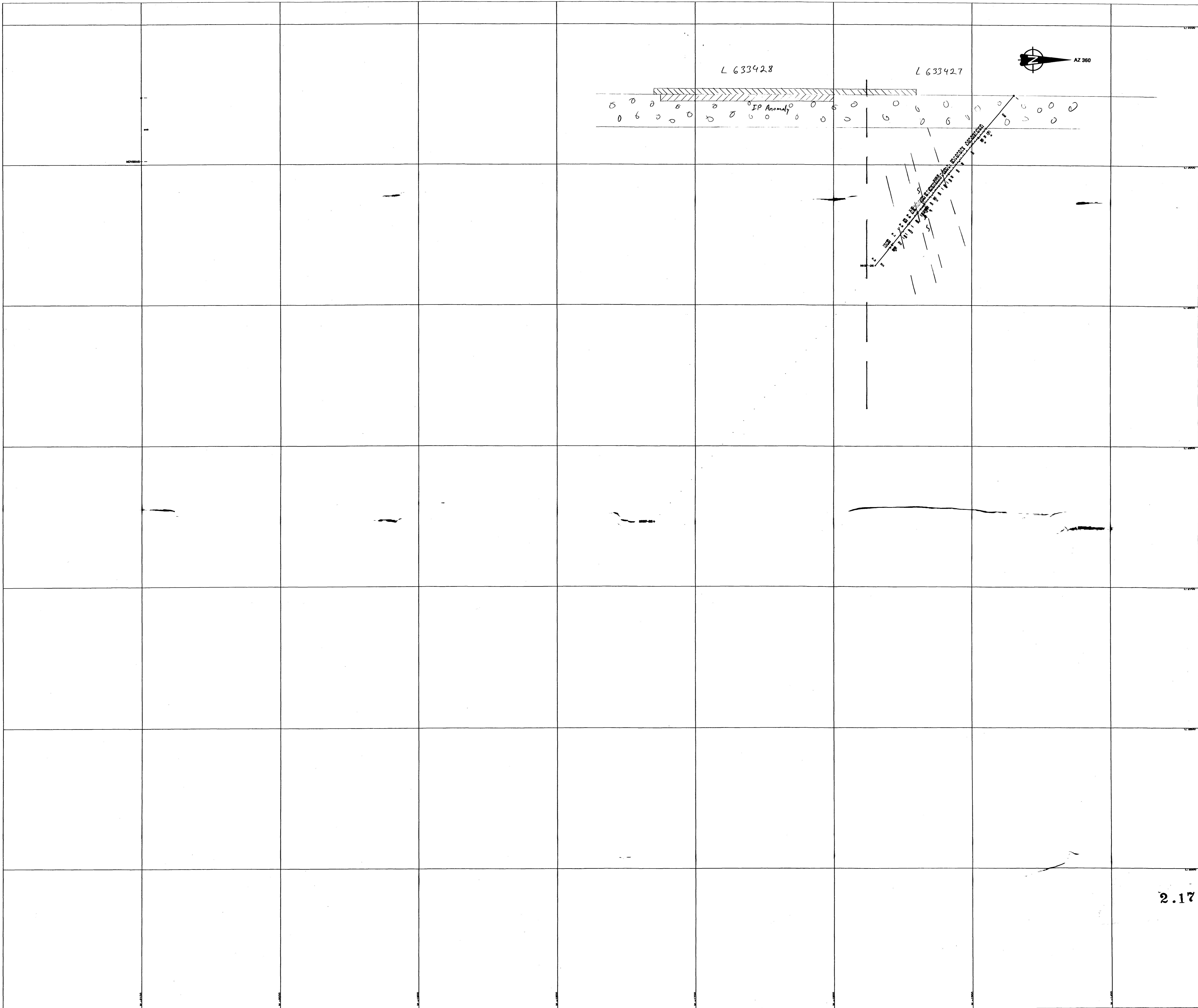


Mikwam JV Legend  
1997 Drilling Program

- 1 THOLEIITIC VOLCANICS
- 2 Unalutite
- 3 Basalt
- 4 Andesite
- 5 Basaltic andesite
- 6 Basalt
- 7 Basalt
- 8 CALCIUM ALKALIC BASIC VOLCANICS
- 9 CALCIUM INTERMEDIATE VOLCANICS
- 10 INTERMEDIATE-BASIC VOLCANICS
- 11 Basalt
- 12 Basalt
- 13 Basalt
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MIKWAM JV  
Hole MK97-26  
Section 4350E  
25m Window



Mikwam JV Legend  
1997 Drilling Program

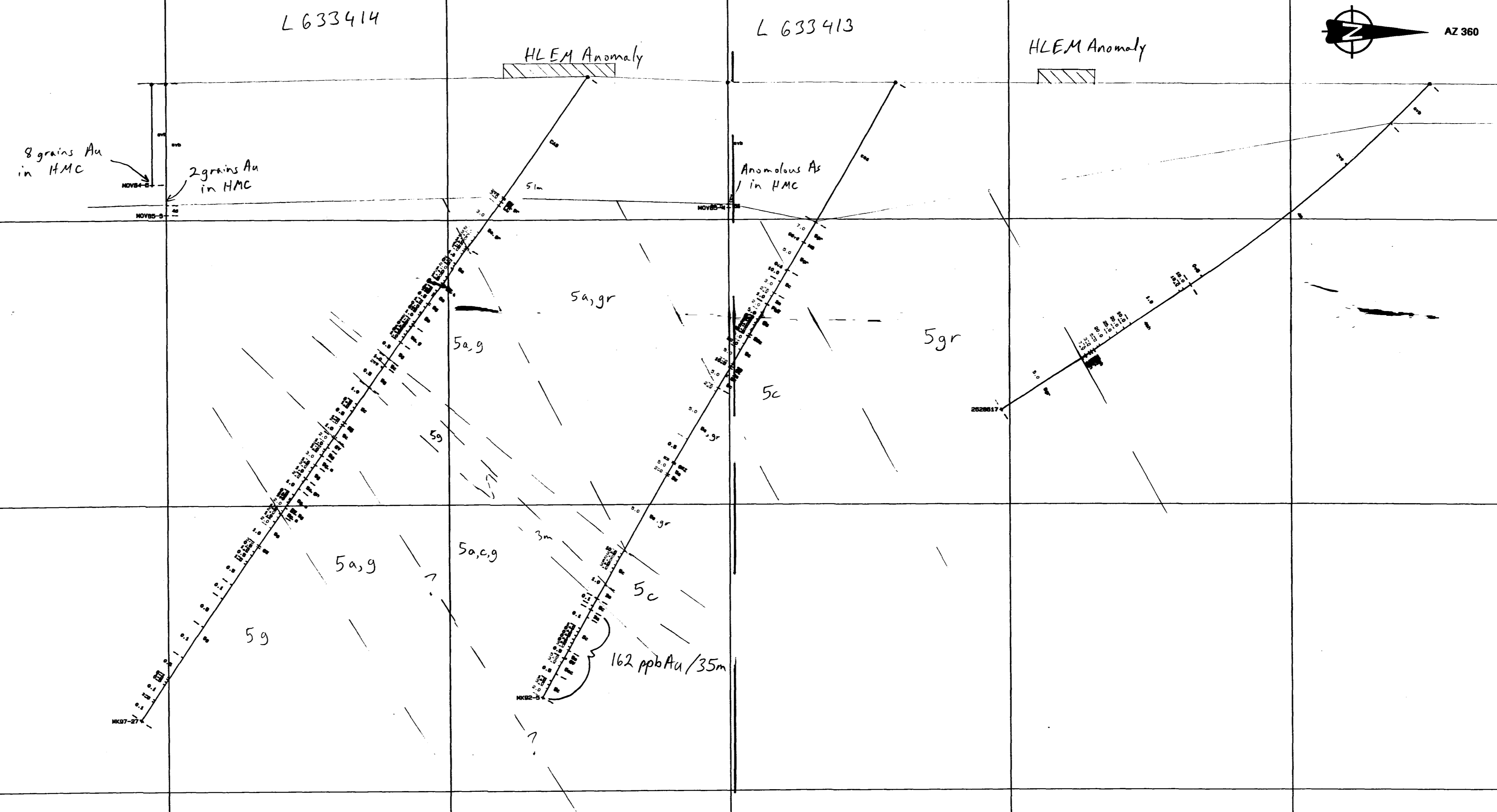
- 1 TROCTIC VOLCANICS
  - 1a Unalutite
  - 1b Basalt
  - 1c Amphibolite
  - 1d Gabbro
  - 1e Basalt
- 2 CALC-ALKALIC BASALTIC VOLCANICS
- 3 BASALTIC INTERMEDIATE VOLCANICS
  - 3a Unalutite
  - 3b Andesite
  - 3c Basalt
  - 3d Pliocene
- 4 INTERMEDIATE FELSIC VOLCANICS
  - 4a Diabase
  - 4b Diabase with
  - 4c Diabase with/intermediate
  - 4d Intermediate diorite and
  - 4e Diabase with/intermediate
- 5 SEDIMENTARY
  - 5a Unalutite
  - 5b Argillite
  - 5c Conglomerate
  - 5d Quartzite
  - 5e Sandstone
  - 5f Porphyritic, or quartzite porphyritic, or (quartzite porphyritic)
  - 5g Diabase flow
  - 5h Quartzite
  - 5i Quartzite
  - 5j Quartzite
  - 5k Chert
  - 5l Argillite
  - 5m Sandstone
  - 5n Sandstone
  - 5o Sandstone
  - 5p Sandstone
  - 5q Sandstone
  - 5r Sandstone
  - 5s Sandstone
  - 5t Sandstone
  - 5u Sandstone
  - 5v Sandstone
  - 5w Sandstone
  - 5x Sandstone
  - 5y Sandstone
  - 5z Sandstone
- 6 FELSIC INTERSIVE ROCKS
  - 6a Unalutite
  - 6b Quartz porphyry
  - 6c Quartz porphyry
  - 6d Quartz porphyry
  - 6e Quartz porphyry
  - 6f Quartz porphyry
  - 6g Quartz porphyry
  - 6h Quartz porphyry
  - 6i Quartz porphyry
  - 6j Quartz porphyry
  - 6k Quartz porphyry
  - 6l Quartz porphyry
  - 6m Quartz porphyry
  - 6n Quartz porphyry
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  - 6r Quartz porphyry
  - 6s Quartz porphyry
  - 6t Quartz porphyry
  - 6u Quartz porphyry
  - 6v Quartz porphyry
  - 6w Quartz porphyry
  - 6x Quartz porphyry
  - 6y Quartz porphyry
  - 6z Quartz porphyry
- 7 IRON FORMATION
  - 7a Chert
  - 7b Siderite (pyrite)
  - 7c Chert
  - 7d Iron
  - 7e Siderite iron formation
  - 7f Chert
  - 7g Chert
- 8 ALT (Altered)
  - 8a Altered
  - 8b Altered
  - 8c Altered
  - 8d Altered
  - 8e Altered
  - 8f Altered
  - 8g Altered
  - 8h Altered
  - 8i Altered
  - 8j Altered
  - 8k Altered
  - 8l Altered
  - 8m Altered
  - 8n Altered
  - 8o Altered
  - 8p Altered
  - 8q Altered
  - 8r Altered
  - 8s Altered
  - 8t Altered
  - 8u Altered
  - 8v Altered
  - 8w Altered
  - 8x Altered
  - 8y Altered
  - 8z Altered

2.17187

MIKWAM JV  
Hole MKG7-26  
Section 4400E  
25m Window







Mikwam JV Legend  
1997 Drilling Program

- 1 TROILITIC VOLCANICS
- 2 Unalutite
- 3 Basalt
- 4 Andesite
- 5 Tuff
- 6 Basalt
- 7 Basalt
- 8 Basalt
- 9 Basalt
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- 200 Basalt

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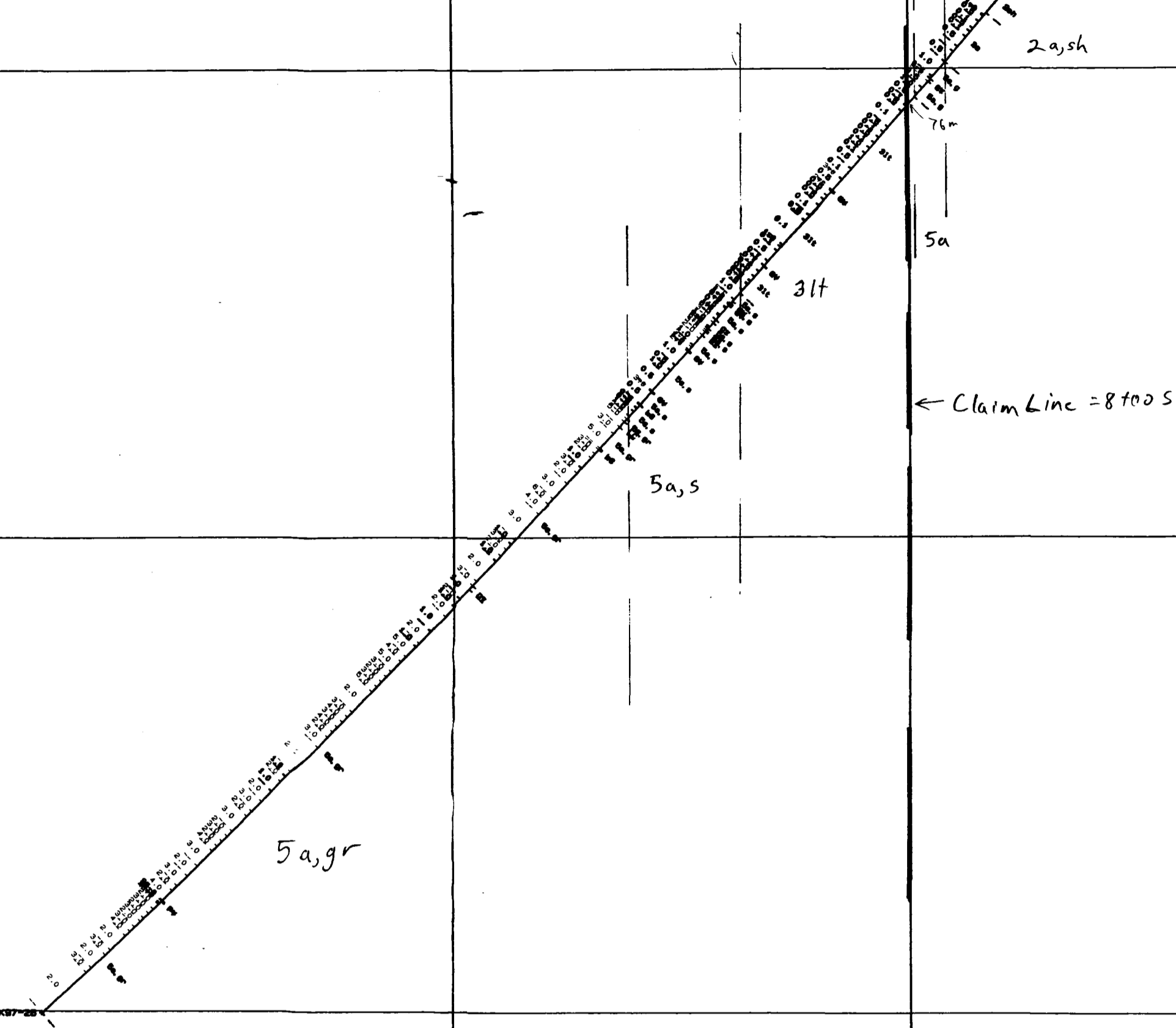
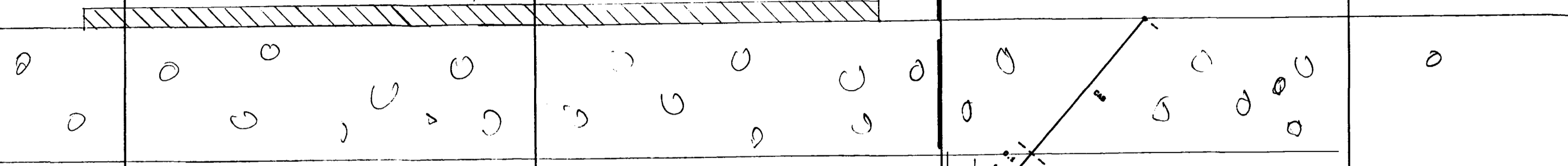
MIKWAM JV  
Hole MK97-27  
Section 5600E  
25m Window

Scale 1:500  
Date 11/11/97  
Royal Oak Mines Inc.



L 624 889  
HLEM Anomaly

L 624 888



Mikwam JV Legend  
1997 Drilling Program

- 2 VOLCANIC VOLCANICS
- 2 Unaltered
- 2a Modified
- 2b Pyroclastic
- 2c Tuff/Laugh-out
- 2d Other
- 3 CALCIUM ALKALIC MAFIC VOLCANICS
- 3a Unaltered
- 3b Altered
- 3c Mixed
- 3d Pyroclastic
- 4 INTERMEDIATE-FELSIC VOLCANICS
- 4a Unaltered
- 4b Dikes
- 4c Dikes with
- 4d Dikes with
- 4e Dikes with
- 4f Dikes with
- 4g Dikes with
- 5 SEDIMENTS
- 5a Unaltered
- 5b Argillite
- 5c Conglomerate
- 5d Sandstone
- 5e Shale
- 5f Siltstone
- 5g Quartzite
- 5h Gneiss
- 5i Marble
- 5j Metachert
- 5k Metagreywacke
- 5l Metasiltstone
- 5m Metashale
- 5n Metasandstone
- 5o Metagranite
- 5p Metadiabase
- 5q Metagabbro
- 5r Metagabbro
- 5s Metagabbro
- 5t Metagabbro
- 5u Metagabbro
- 5v Metagabbro
- 5w Metagabbro
- 5x Metagabbro
- 5y Metagabbro
- 5z Metagabbro
- 6 FELSIC INTERMEDIATE ROCKS
- 6a Unaltered
- 6b Quartz monzonite
- 6c Felsic monzonite
- 6d Felsic monzonite
- 6e Felsic monzonite
- 6f Felsic monzonite
- 6g Felsic monzonite
- 6h Felsic monzonite
- 6i Felsic monzonite
- 6j Felsic monzonite
- 6k Felsic monzonite
- 6l Felsic monzonite
- 6m Felsic monzonite
- 6n Felsic monzonite
- 6o Felsic monzonite
- 6p Felsic monzonite
- 6q Felsic monzonite
- 6r Felsic monzonite
- 6s Felsic monzonite
- 6t Felsic monzonite
- 6u Felsic monzonite
- 6v Felsic monzonite
- 6w Felsic monzonite
- 6x Felsic monzonite
- 6y Felsic monzonite
- 6z Felsic monzonite
- 7 IRON FORMATION
- 7a Chert
- 7b Magnetite
- 7c Hematite
- 7d Magnetite
- 7e Hematite
- 7f Magnetite
- 7g Hematite
- 7h Magnetite
- 7i Hematite
- 7j Magnetite
- 7k Hematite
- 7l Magnetite
- 7m Hematite
- 7n Magnetite
- 7o Hematite
- 7p Magnetite
- 7q Hematite
- 7r Magnetite
- 7s Hematite
- 7t Magnetite
- 7u Hematite
- 7v Magnetite
- 7w Hematite
- 7x Magnetite
- 7y Hematite
- 7z Magnetite
- 8 ALL (Archean)
- 8A Archean
- 8B Archean
- 8C Archean
- 8D Archean
- 8E Archean
- 8F Archean
- 8G Archean
- 8H Archean
- 8I Archean
- 8J Archean
- 8K Archean
- 8L Archean
- 8M Archean
- 8N Archean
- 8O Archean
- 8P Archean
- 8Q Archean
- 8R Archean
- 8S Archean
- 8T Archean
- 8U Archean
- 8V Archean
- 8W Archean
- 8X Archean
- 8Y Archean
- 8Z Archean

2.17187

MIKWAM JV  
Hole MK97-28  
Section 6700E  
25m Window

