



## SUMMARY

This report documents the geological and diamond drilling exploration program conducted by WMC International Limited on Doon Property during the summer and fall of 1997.

The property lies within the southern Abitibi greenstone belt, a sub-province of the Archean Superior Province of the Canadian Shield. The centre of the property is located approximately 20 kilometres west southwest of the Matachewan gold camp in Ontario.

Most of the property is covered with a mantle of Proterozoic and Pleistocene deposits. Previous WMC work used a combination of geological, geochemical and geophysical techniques to target potential gold-bearing structures. The Doon Property area has been demonstrated to contain a virtually unexplored section of the Cadillac-Larder Lake Break (CLLB). This major 080°-striking deformation zone in Doon Township has many features in common with the CLLB in the Larder Lake area.

Surface exploration in the Archean 'window' area of the property has outlined an altered and mineralised zone of brecciated mafic volcanics in the Fault Lake area, where gold assays range up to 2.3 g/t.

Diamond holes DD97-02 to DD97-06, which targeted two anomalous, parallel, east/west-striking geophysical IP trends intersected graphitic metasediments. DD97-01 was lost due to insufficient casing and was re-drilled as DD97-01A; similarly, DD97-07 was lost when it intersected a weathered portion of the CLLB after traversing a Matachewan diabase dike. A bleached quartz/ankerite-sericite zone in DD97-02 returned a significant intersection of 14.5m @ 610 ppb gold. Based on drilling to date, the metasediment/metavolcanic contact in central Doon township appears to have a shallow dip southward of approximately 40 degrees.



41P15NW2001 2.18272 DOON

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## 1.0 LOCATION

The WMC International Doon Property is located approximately 70 kilometres west southwest of Kirkland Lake in the Larder Lake Mining Division, District of Temiskaming. The centre of the property is located approximately 20 kilometres west southwest of the town of Matachewan at Longitude  $80^{\circ} 52'$  and Latitude  $47^{\circ} 53'$  on NTS map sheet 41 P/15.

## 2.0 ACCESS

Easy access to the Doon Property is afforded by the all weather United Asbestos Road (UAR) which branches southwest from Highway 566, approximately 2 kilometres west of the town of Matachewan (**Figure 1**). This road passes to the west through northwestern Yarrow township and central Doon and Midlothian townships. In Doon township, Wilson Road branches north from the United Asbestos Road and joins Highway 566 in northern Bannockburn township. An extensive system of bush and logging roads provides local access to the various parts of the property.

## 3.0 CLAIM STATUS

The Doon Property consists of 43 contiguous claims (547 units) situated in Montrose, Midlothian, Doon and Bannockburn townships and is owned 100% by WMC International (**Map #1, Table 1**). WMC International Limited can earn a 100% interest minus a 2% NSR on mining claims 1207606 and 1207607 in Doon township which are under option from Raven Resources Incorporated of Kirkland Lake.

## 4.0 REGIONAL GEOLOGY

The Doon Property lies in the southwestern Abitibi Greenstone Belt of the Superior Province along the northwestern margin of the Cobalt Embayment.

The bedrock geology of the Matachewan area has been most recently described by Lovell (1967), Powell (1991) and Jensen (1995). The stratigraphic nomenclature of the Kirkland Lake area presented by Jensen and Langford, in 1985, is used in this report (**Figure 2**).

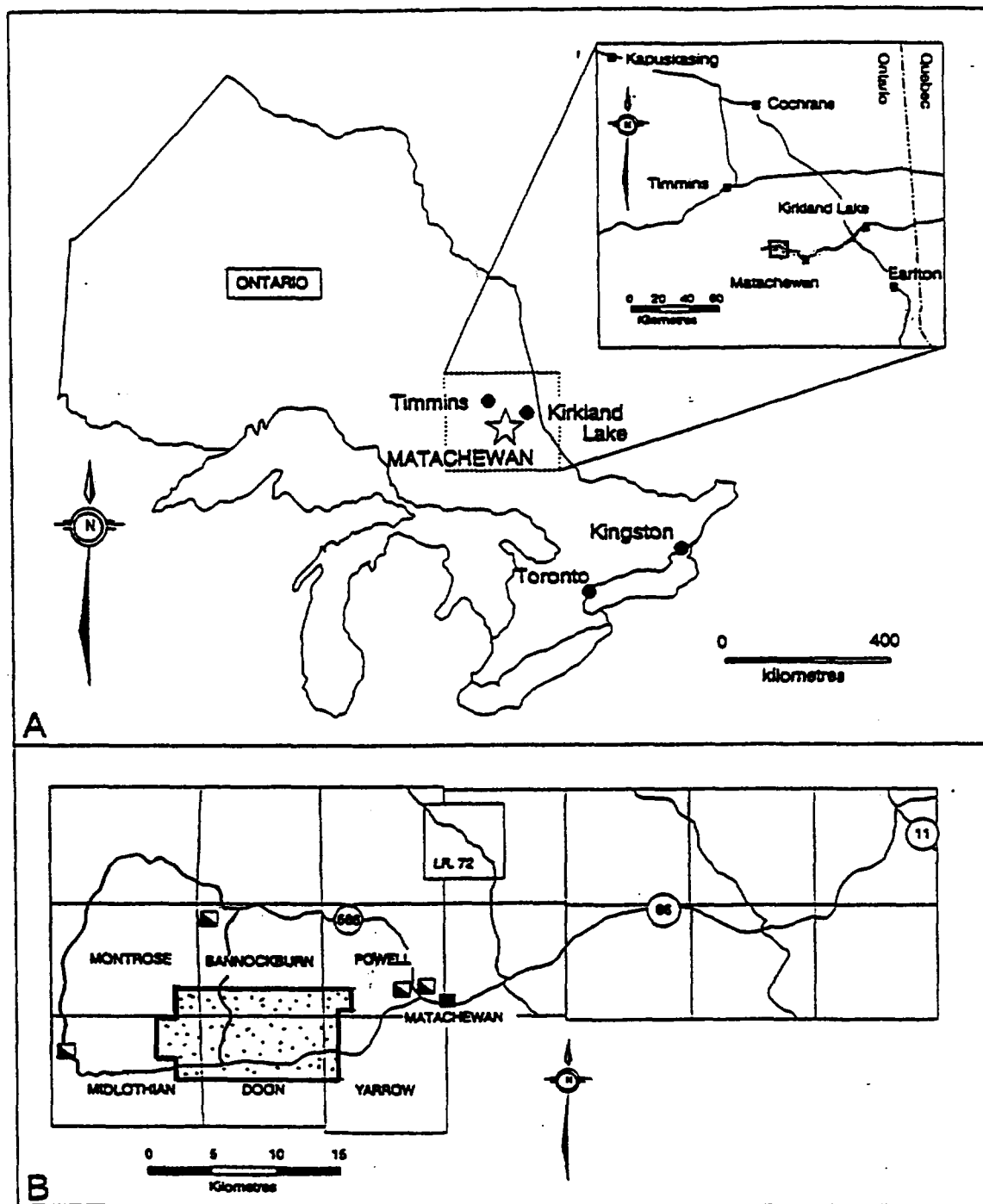


Figure 1. Location of the Doon Project area west of Matachewan, Northeastern Ontario  
 A) Location of the project area relative to local population centres;  
 B) Townships included in the project area. (after Powell, 1991)

**TABLE 1  
DOON PROJECT**

<u>CLAIM NO.</u>	<u>UNITS</u>	<u>TOWNSHIP</u>	<u>RECORDING DATE</u>	<u>EXPIRY DATE</u>
1189298	16	DOON	08/01/1995	08/01/1998
1189299	16	MIDLOTHIAN	08/01/1995	08/01/1998
1207601	10	MIDLOTHIAN	04/11/1995	04/11/1998
1207603	16	DOON/MIDLOTHIAN	04/11/1995	04/11/1998
1207604	16	DOON	04/11/1995	04/11/1998
1207605	8	DOON	04/11/1995	04/11/1998
1207606*	8	DOON	04/11/1995	04/11/1999
1207607*	8	DOON	04/11/1995	04/11/1999
1207608	16	DOON	04/11/1995	04/11/1998
1207609	16	DOON	04/11/1995	04/11/1998
1207610	8	DOON	04/11/1995	04/11/1998
1207611	16	DOON	04/11/1995	04/11/1998
1207612	8	DOON	04/11/1995	04/11/1998
1207613	9	DOON/MIDLOTHIAN	04/11/1995	04/11/1998
1207614	10	MIDLOTHIAN	04/11/1995	04/11/1998
1207615	16	MIDLOTHIAN	04/11/1995	04/11/1998
1207616	8	DOON	04/11/1995	04/11/1998
1207617	12	DOON	04/11/1995	04/11/1998
1207618	16	DOON	04/11/1995	04/11/1998
1207620	16	MIDLOTHIAN	04/11/1995	04/11/1998
1207621	16	MIDLOTHIAN	04/11/1995	04/11/1998
1207622	16	DOON/MIDLOTHIAN	04/11/1995	04/11/1998
1207623	16	DOON	04/11/1995	04/11/1998
1207624	16	DOON	04/11/1995	04/11/1998
1207625	8	DOON	04/11/1995	04/11/1998
1207626	16	DOON	04/11/1995	04/11/1998
1207627	16	DOON	04/11/1995	04/11/1998
1207628	16	DOON	04/11/1995	04/11/1998
1207631	16	MONTROSE/MIDLOTHIAN	04/11/1995	04/11/1998
1207632	16	MONTROSE/MIDLOTHIAN	04/11/1995	04/11/1998
1207633	16	BANNOCKBURN/DOON/ MONTROSE/MIDLOTHIAN	04/11/1995	04/11/1998
1207634	16	BANNOCKBURN/DOON	04/11/1995	04/11/1998
1207635	16	BANNOCKBURN/DOON	04/11/1995	04/11/1998
1207636	8	BANNOCKBURN/DOON	04/11/1995	04/11/1998
1207637	16	BANNOCKBURN/DOON	04/11/1995	04/11/1998
1207638	16	BANNOCKBURN/DOON	04/11/1995	04/11/1998
1207639	16	BANNOCKBURN/DOON	04/11/1995	04/11/1998
1207661	12	DOON	04/11/1995	04/11/1998
1207662	16	DOON	04/11/1995	04/11/1998
1207664	8	MIDLOTHIAN	04/11/1995	04/11/1998
1207665	1	MIDLOTHIAN	04/11/1995	04/11/1998
1207666	1	MIDLOTHIAN	04/11/1995	04/11/1998
1207667	4	MIDLOTHIAN	04/11/1995	04/11/1998

43 Claims      547 units

\* Claims under option from Raven Resources Inc.

Updated: January 6, 1998; SWD

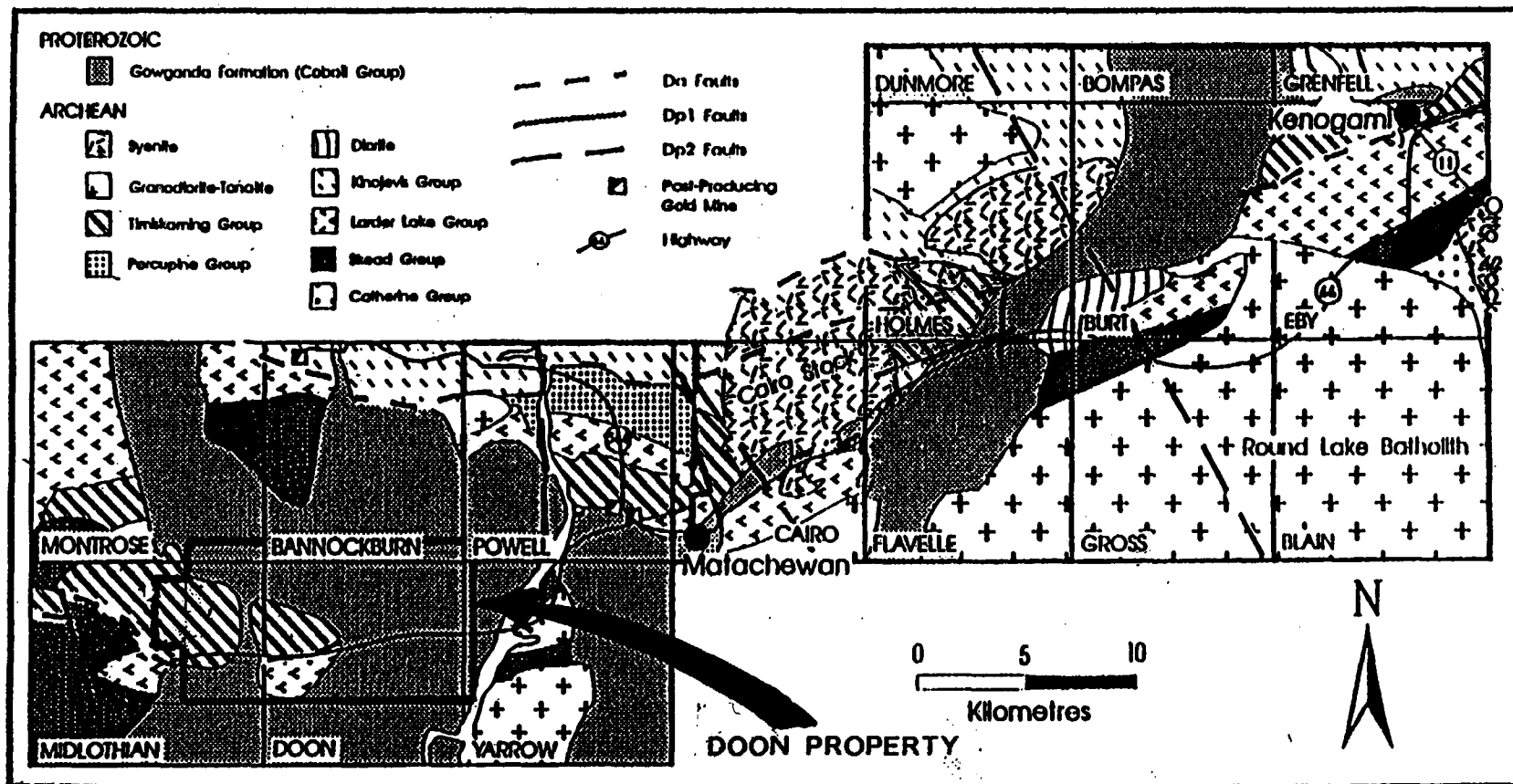


Figure 2. Lithostratigraphic subdivisions of the study area (modified from MERQ-OGS, 1983). The lithostratigraphic units are defined by Jensen and Langford (1985).

The volcanic strata of the Matachewan area have been assigned to the Larder Lake and Kinojevis Groups of rock. The *Larder Lake Group* of volcanic rocks are mainly pillowed and massive basalt flows with less common komatiitic flows. The *Kinojevis Group* of volcanic rocks are pillowed and massive basalts, mafic to intermediate tuffs, and cherty tuffaceous units.

The volcanic rocks are unconformably overlain by a belt of alluvial-fluvial clastic sedimentary rocks ('Temiskaming-type'). In the Doon Property area, the Temiskaming rocks fine northward and consist of conglomerates, cross-bedded sandstones and interbedded siltstones. The Temiskaming Group is spatially associated with the CLLB. Temiskaming-type, north-facing, fluvial conglomerates and sandstones have been recognized in eastern Midlothian (Bright, 1979) and central Doon townships. The supracrustal rocks of the Matachewan area have been intruded by three major acidic plutons which profoundly affected the distribution of the volcanic strata to the south of the CLLB.

The Late Archean rocks and the vertically-dipping diabase dikes of the *Matachewan Swarm* are unconformably overlain by gently-dipping glaciogenic sedimentary rocks of the Early Proterozoic *Gowganda Formation* (Cobalt Group, Huronian Supergroup). Only rocks equivalent to the Coleman Member (**Figure 3**) occur in the project area and consist of a heterogeneous upward-coarsening assemblage of diamictite (polymictic paraconglomerate), sandstone, siltstone, and laminated mudstone with dropstone (Mustard and Donaldson, 1987). Regionally the Proterozoic sedimentary rocks strike north north-east and dip gently west, usually less than 20 degrees.

#### 4.1 Structural Geology

Regional-scale, east-trending faults, believed to represent the western extension of the Cadillac-Larder Lake Break, transect the Archean terrane and divide the area into lithologically distinct fault blocks. The shear zones separating the fault blocks contain distinctive, schistose, sedimentary units containing a mixture of carbonatized and non-carbonatized komatiitic and calc-alkalic volcanic detritus (Jensen, 1995).

Rocks of the Matachewan area have been affected by a number of tectonic events. The following structural interpretation is taken largely from the work completed by Powell (1991). The oldest ( $D_0$ ) structures are folds, without an associated cleavage, in volcanic rocks west of Matachewan. Emplacement of the Round Lake Batholith ( $D_1$ ) produced a strain aureole extending several kilometres away from the margin of the batholith and was probably synchronous with  $D_0$ . This deformation event produced the first cleavage-producing event.  $D_2$  and  $D_3$  structures are spatially associated with the CLLB and related faults. The structures are both characterised by an east northeasterly-trending, steeply dipping foliation with well developed steeply plunging mineral and extension lineations.

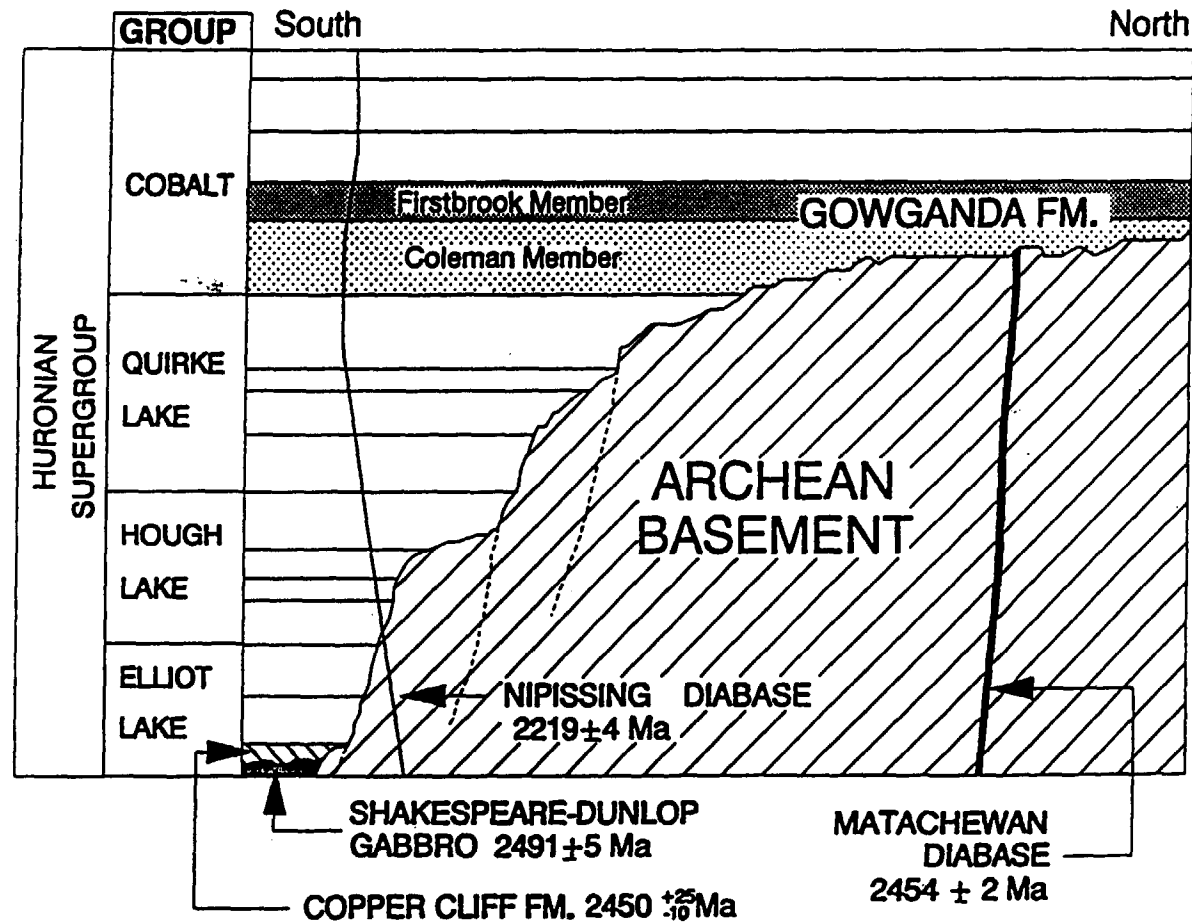


Figure 3. Schematic cross section of the Huronian Supergroup (modified from Mustard and Donaldson 1987, Fig. 1c). Age determinations: Gowganda Formation (Fairbairn *et al.* 1969); Shakespeare Gabbro and Copper Cliff Formation (Krogh *et al.* 1984); Nipissing diabase (Corfu and Andrews 1986); Matachewan diabase (Heaman 1988). (Powell, 1991)

The final Archean deformation event, D<sub>4</sub>, produced steeply plunging open folds with north/south axial traces. These late, brittle, normal faults with north/south and northwest/southeast trends cut all other structures (MERQ-OGS, 1983). In Midlothian township to the west of Doon Property, the Stairs Mine and Laroma Prospect are associated with major, sinistral strike-slip displacements of the metavolcanic/metasediment contact.

#### **4.2 Regional Quaternary Geology**

The regional ice flow history of the Doon Property region is consistent with published reports for northeastern Ontario (Bajc 1997). In general, consistent late glacial ice flow indicators clearly suggest ice flow was directed to the south southeast. Evidence of an older west south-west glacial advance is preserved albeit rarely.

### **5.0 LOCAL GEOLOGY**

The surficial Archean geology of the Doon Property area is not well understood due to the extensive Pleistocene and Proterozoic deposits covering 70-80% of the map area.

The most detailed geological work in the Doon Property area was completed, in 1987, by the Ontario Geological Survey (Junnila, 1990) as part of the *Canada-Ontario Mineral Development Agreement* (COMDA). The emphasis of OGS Report 277 was on rocks of the Huronian Supergroup found in Yarrow and Doon townships. The inliers of Archean metavolcanic, metasedimentary and plutonic rocks were identified but were not extensively studied.

The main feature of the Archean inlier in Doon Township is an 080°-trending contact between southern metavolcanics and northern clastic metasediments similar to the contact that marks the CLLB in the Kirkland Lake and Matachewan areas (**Map #2**). The metavolcanic and metasedimentary rocks strike to the northeast and dip steeply to the southeast. Metamorphism of the Archean supracrustal rocks ranges from sub-greenschist to lower amphibolite facies.

Metasedimentary rocks exposed in Doon Township are correlative with a 3 kilometre-thick, north-facing, succession in the far west portion of the claim group in Midlothian township. The succession consists of diamictite, sandstone and minor siltstone and argillite. The contact with the underlying metavolcanic rocks was not observed in the map area.

Nipissing intrusive rocks intrude both the Late Archean and Early Proterozoic rocks. In the project area, Nipissing intrusive rocks are represented by a few small outcrops of fine to

coarse-grained, locally pegmatitic diabase.

The unconformably overlying sediments belong to the 2300 Ma basal Coleman Member of the Gowganda Formation, Cobalt Group, Huronian Supergroup. Evidence for the glacial origin of the Coleman Member includes the presence of diamictite and dropstone. The Coleman Member rocks form hills and ridges with local relief of up to 200m in an area south-east of Elmer Lake.

Northeast and northwest-trending joint sets that occur in the Coleman Member typically strike northeast and dip gently to the southeast. Significant local deviations from this attitude suggest post-depositional block faulting (Junnila, 1990). Deformation structures in the Gowganda Formation are localised where the northeast-trending CLLB and associated faults are intersected by north/south-trending Archean fault.

## **6.0 TARGET AND RATIONALE**

The Bear Island Caution had effectively closed the area to exploration since May, 1978. Prior to the legal dispute, the Proterozoic cover had hindered effective exploration of the area. Once the Caution was lifted in April, 1995, WMC International Limited acquired the claims which comprise the Doon Property. The target is giant mesothermal gold deposits hosted by Archean shear zones.

## **7.0 PREVIOUS WORK**

A compilation of previous work in the Doon Property area has shown that a very limited amount of gold exploration was undertaken prior to the Land Caution of 1978. The only recorded diamond hole targeting gold in Doon township was drilled in 1964 by Laroma Midlothian Mines west of Duncan Creek and south of the United Asbestos Road. The northern portion of Doon township and the southern part of Bannockburn township were targeted by several companies for base metal and asbestos deposits.

### **7.1 Previous Work in Doon Township**

#### **1964 Laroma Midlothian Mines Limited (KL1579)**

- airborne geophysical survey of mining claims MR35518 - MR35535 in the Duncan Creek area of Doon township.
- EM and magnetic readings conducted at a nominal 400' line spacing and 150' terrain clearance.
- moderate strength conductor with direct magnetic correlation outlined west of Duncan Creek.
- a 401' diamond hole intersected mineralised (Py) graphitic tuff/ porphyry rocks.



1979 *Bagdad Exploration Association Inc (KL0175)*

- soil sampling on claim group near east 'nose' of Archean window (presently covered by Raven Resources claims in Doon township).
- north/south trending lines at 400' intervals with soil samples collected every 100' along the lines.
- 500g sample collected just above the A2 leached horizon.
- Au assay by FA/AAS; most Au values less than 5ppb.

**7.2 Previous Work in Southern Part of Bannockburn Township**

1967 '5436' INC (KL0853)

- Magnetic (Barringer GH-102) survey over 88 claims to detect serpentine- peridotite masses in southwest part of Bannockburn Township.
- diamond drilling outlined extensive amount of serpentine-peridotite with minor asbestos in serpentine.
- diamond hole on claim MR45702 (WMC 1207644) intersected quartzite/argillite rocks under 35' of sand overburden while another hole on WMC 1207653 intersected the same lithologies under 112' of sand.

1972 *Canex Aerial Exploration Limited (KL0141)*

- Vertical Loop EM (Scintrex SE600) and magnetometer (Sharpe MF-1) surveys were on grids between Clarke Lake and Zurbrigg Lake.
- EM was completed on 400' spaced lines and magnetics were run at 100' stations.
- EM was found to be flat over both grid areas; only one minor priority hole was planned.

1974 *Hanna Mining Company (KL2970, KL1078)*

- EM and magnetic survey over Charlewood Lake targeted base metals airborne anomaly in the vicinity.
- area underlain by north-facing pillowed, fragmental and massive dacites with a trend AZI= 130 degrees and a steep vertical dip.
- since results indicated that INPUT could not penetrate Cobalt Series rocks, no further was proposed.

### **7.3 Previous Work in Eastern Midlothian Township**

1946 *Goodwin, et al. (Marshall, 1946)*

- Goodwin, et al completed stripping and trenching on an outcrop on the creek south of Elizatbeth Lake, in 1945.
- Outcrops of Temiskaming sedimentary rocks with several quartz stringers were noted by Marshall, 1946. Mineralization consisted of scant pyrite and minor visible gold.

1963 *Laroma Midlothian Mines Limited (KL-1579)*

- EM and magnetic surveys were completed by Canadian Aero Surveys over Midlothian Mines Limited property (east of Stairs Mine) in eastern Midlothian and western Doon townships.
- Readings at a nominal 400' line spacing and 150' terrain clearance targeted metasediment/ metavolcanic contact south of Midlothian Lake.  
Nine conductors (8 in Midlothian township, 1 in Doon township) were subjected to ground follow-up; the latter included gridding at 400' line-spacing, EM, magnetic and geological surveys.

### **7.4 Previous Work by WMC International Limited**

- With the lifting of the Bear Island Caution in April 1995, WMC International Limited staked 66 contiguous claims in Doon, Midlothian, Yarrow, Bannockburn, Montrose and Powell townships. Option agreements were subsequently negotiated with Raven Resources and Premier Exploration of Kirkland Lake and Blake, et al of Temagami to solidify a strategic land position (Baker, et al, 1997).
- In August 1995, reconnaissance mapping, prospecting and sampling were completed primarily in Doon and Midlothian townships. The work also included an orientation till sampling program in Doon and Midlothian townships over areas not covered by Proterozoic rocks.
- In October 1995, nine Reverse Circulation (RC) holes targeted till geochemistry and Archean bedrock west of Duncan Creek in central Doon township.
- In March 1996, 132 kilometres of gridding, (*Doon Property Grid*) at a line spacing of 1000m, essentially covered the entire property. Quantec Geophysics completed three *Schlumberger* resistivity soundings to the east and west of the Archean window in April, 1996. Approximately 80 surface tills were collected during June 1996 over the metasediments in eastern Midlothian and central Doon townships.
- A total of 100 kilometres of infill gridding (*Doon Township Grid*) at a line spacing of 200m was undertaken in central Doon township. JVX Geophysics completed 19.0 kms of IP/Resistivity and 78.1 kms of ground magnetic surveys over the more detailed grid.

## 8.0 THE 1997 WMC INTERNATIONAL LIMITED EXPLORATION PROGRAM

A combination of 1: 5000 geological mapping and diamond drilling was used to target potential gold-bearing structures within the Archean 'window' in central Doon township. Details of WMC International personnel involved in this exploration program and the subsequent compilation of this report, may be found in **Appendix X**. An estimate of expenditures incurred during this phase of exploration is shown in **Appendix XI**.

### 8.1 The 1997 Geological Program by WMC International Limited

Between the 9<sup>th</sup> and 26<sup>th</sup> of June, 1997, 1:5,000-scale geological mapping by one geologist and two field assistants was executed on WMC International's property in Doon and Midlothian townships. The area mapped included the following claims: 1207603-1207608, 1207622-1207626 (100% WMC), 1207606-1207607 (Raven Resources Option) and 1223333 (Blake, et al. Option). Approximately 17 square kilometres was covered by walking grid lines spaced at 200 metre intervals, driving and walking roads and trails in the area, traversing around lakes and compass and pace between lines.

Overall outcrop exposure within the Archean 'window' in Doon township has been estimated at approximately 10%. The best exposures of outcrop occur immediately north and south of the main northeast-striking deformation zone between Fault Lake and Leahy Lake in central Doon township. The aforementioned deformation zone trend is clearly visible on 1:20000 air photos.

During the course of the mapping, outcrops of Archean and Proterozoic rocks were recorded and plotted on a 1: 5000 base plan. Rock types included mafic volcanics, ultramafics, metasediments and intrusive dikes. Ultramafic rocks with classical 'spinifex' texture and polyhedral jointing have been exposed in trenching on the logging road to Leahy Lake (north of UAR) and on the baseline at 94+50E.

The Archean metavolcanics and metasediments, which are locally sheared, strike to the northeast and exhibit a northeast-trending schistosity that dips to the southeast. Structural features noted included a moderate foliation in the mafic volcanics, culminating in an interpreted sheared contact between the Archean Larder Lake Group of rocks to the south and the Archean metasediments (Temiskaming?) to the north. This contact, although not observed in the map area, is interpreted to lie under shallow cover, on the roadside immediately east of Leahy Lake. In addition, locations of geographic features such as roads, vegetation, lakes and swamps were noted in relation to the Doon township grid (**Map #2**).

Reconnaissance rocks sample (CR 104458 - CR104478) descriptions are listed in **Appendix III** and sample locations are plotted in red ink on **Map #2**. Rock sample assay certificates are located in **Appendix IV**.

## **8.2 The 1997 Diamond Drilling Program by WMC International Limited**

A small program of five diamond holes (DD97-01 - DD97-05) targeted two anomalous IP trends in central Doon township. The trends, which strike east/west in the western part of the Doon Township Grid and change to east northeast at L78+00E, are characterised by spatially related IP and low resistivity anomalies. The southern trend, which lies along a resistivity and magnetic contact, is interpreted to be the Cadillac-Larder Lake Break. The northern trend, on the other hand, parallels the CLLB.

Drilling, by Heath & Sherwood of Kirkland Lake, commenced on the 14<sup>th</sup> of July and was completed on the 6<sup>th</sup> of August. A significant gold intersection of **15.4m @ 610 ppb** in DD97-02 resulted in a small program of follow-up diamond drilling in October, 1997. The second phase of drilling (DD97 - 06 and DD97 - 07), also by Heath & Sherwood, was completed between the 16<sup>th</sup> and 21<sup>st</sup> of October.

Details and results of both phases of diamond drilling are listed in **Table 2** and hole locations (relative of IP anomaly trends) are plotted on **Map #3**. DD97-01 was lost at a DHD of 38.0 metres due to insufficient casing and was re-drilled as DD97-01A. Also, DD97-07 was lost at a DHD of 85.0 metres when a weathered section of the main deformation zone was intersected immediately after cutting a section of diabase dike. Since significant amounts of hangingwall graphitic metasediments were intersected in most holes, all IP anomalies have been explained.

Cross-sections at 1:500 are shown in **Figures 4 to 9** which are appended in pockets at the end of the report. All diamond drill logs are compiled in **Appendix VI** and all assay certificates are in **Appendix VII**.

Petrographic descriptions of drill core thin sections, completed by Micheal Russer of Mississauga, Ontario, may be found in **Appendix IV**. Whole rock analysis results for eight sections of drill core are shown in **Appendix VIII**.

**TABLE 2: DOON GRID DIAMOND DRILLING - AUGUST & SEPTEMBER, 1997**

<i>HOLE ID</i>	<i>LOC</i>	<i>GRID Co-Ord.</i>		<i>DIP</i>	<i>DEPTH</i> <i>(metres)</i>	<i>AZI</i>	<i>TARGET</i>	<i>DRILLING RESULTS</i>
		<i>East</i>	<i>North</i>					
DD97-01	Fault L.	78 + 00	293 + 37	-55	38.00	360	IP + Res O/C assay	Hole lost, insufficient casing.
DD97-01A	Fault L.	78 + 00	293 + 36	-55	301.00	360	IP + Res O/C assay	Intersection 3.38m @ 172ppb Au (65.00-68.30m) at Mv/dolomite contact. *Graphite in f/w metasediments.
DD97-02	Raven Option	92 + 00	300 + 00	-50	160.00	360	IP + Res	Intersection 15.4m @ 610ppb Au (3.27-18.65m) bleached, qtz/ank (fuchsite) zone in Mv. *Graphite in f/w metasediments.
DD97-03	Duncan Road	72 + 00	292 + 35	-60	233.00	360	IP + Res	*Graphite in f/w metasediments.
DD97-04	Raven Option	96 + 00	308 + 00	-50	134.00	360	IP + Res	*Graphite in f/w metasediments.
DD97-05	Raven Option	92 + 00	299 + 00	-50	198.00	360	Bleached qtz/ankerite zone in DD97-02	Less qtz vns than DD97-02, fuchsite, sheared. *Graphite in f/w metasediments.
DD97-06	Raven Option	95 + 00	299 + 00	-50	223.00	360	880ppb Au in O/C	No anomalous Au in Mv-Komatiitic Fragmental-Chl Schist Profile
DD97-07	Raven Option	89 + 00	298 + 00	-50	85.00	360	Au assay DD97-02	Hole lost in main deformation zone
TOTAL					1372.00			

\*all IP anomalies explained in drilling

## 11.0 CONCLUSIONS AND RECOMMENDATIONS

The initial focus of exploration on the WMC International Doon Property was the interpreted extension of the Cadillac-Larder Lake Break west of the Matachewan gold deposits.

The property was blanketed with the *Doon Property Grid* (with a line spacing of 1000 metres) and three Schlumberger Resistivity soundings were completed to assess the thickness of Proterozoic cover rocks both east and west of the Archean 'window'.

Results from reverse circulation drilling (in 1995) in central Doon township confirmed the presence of the inferred extension of the Cadillac-Larder Lake Break. Locally, the till was characterised by large reshaped gold grains suggesting a distal source i.e. >1000m.

Subsequent to this first phase of exploration, it was decided that exploration under cover rocks was not cost effective. The Archean 'window' of central Doon township then became the main focus of exploration. Mapping and sampling on the more detailed *Doon Township Grid* (200 metre line spacing) returned gold values up to 2.3 g/t gold in outcrop. A geophysical survey on the latter grid, identified two parallel, anomalous IP trends trending east/west in western Doon township with a change to a northeast direction in the eastern section of the survey. These anomalies, which are coincident with and parallel to the main regional deformation zone, were the target of exploration during the 1997 field season.

Seven diamond holes (DD97-01 - DD97-07) were drilled for a total of 1372 metres. Graphitic hangingwall metasediments were intersected in most holes. The most significant intersection (DD97-02) of **15.4m @ 610ppb Au** (3.27m-18.65m) was hosted by a bleached, quartz/ankerite (fuchsite) zone in mafic volcanics. The intersection was bracketed with diamond holes to the south, east and west.

Section 92+00E, which is the only section with two diamond holes on the same section, shows that the sheared contact between the metavolcanics and the hangingwall metasediments is relatively shallow with a dip of approximately 40 degrees southward. The widths of ultramafic lithologies intersected in the drilling were relatively narrow.

Gold deposits, such as those at the Stairs Mine and Laroma-Midlothian occurrence, both to the east and west of Doon Property show a spatial association with an offset of the metavolcanic/metasediment contact. This contact, if present in the Doon township area, would be situated under Proterozoic cover and costly to target. No further work is recommended on Doon Property.

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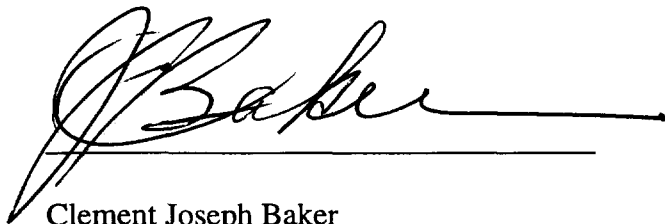
***Appendix 1: Certificate of Qualification***

**Appendix I: Certificate of Qualification**

I, Clement Joseph Baker, of the City of Ottawa, Province of Ontario, hereby certify that:

1. I am a geologist residing at 478 Sandhamn Private, Ottawa, Ontario.
2. I am a graduate of James Cook University (Queensland, Australia) having received a Bachelor of Science (Geology) in 1988.
3. I am a graduate of Queen's University having received a Master of Science in Mineral Exploration (MINEX) in 1993.
4. I have been a practising geologist since graduation in 1988.
5. I am a member of the :  
    Australian Institute of Mining and Metallurgy (AUSIMM)  
    The Prospectors and Developers Association of Canada (PDAC)  
    The Geological Association of Canada (GAC)
6. I have been an employee of Western Mining Corporation / WMC International Limited since January, 1989.
7. The information presented in this document is true and accurate to the best of my knowledge. This information was gathered from such various sources as assessment files, publications and WMC International Limited internal reports.
8. I supervised and performed the work covered in this report.

Dated at Ottawa, Ontario this 5<sup>th</sup> day of February, 1998.

A handwritten signature in black ink, appearing to read 'C. Baker', with a long horizontal line extending to the right.

Clement Joseph Baker  
Senior Geologist

***Appendix II:* Description of Project Management**

## ***Appendix II: Description of Project Management***

### **PROJECT MANAGERS**

#### **Geological**

Clement J Baker, Senior Geologist  
WMC International Limited  
22 Gurdwara Road  
Nepean, Ontario  
K2E 8A2

#### **Diamond Drilling Contractors**

Grenville Whyte, Contracts  
Heath and Sherwood Drilling (1986) Inc.  
P.O. Box 998  
34 Duncan Avenue North  
Kirkland Lake, Ontario  
P2N 3L3

***Appendix III: 1:5000 Mapping: Rock Sample Descriptions***

Appendix III: DOON PROPERTY - Rock Sample Descriptions

Sample No.	UTM Coordinates E N	Sample Type	Sample Descriptions
JUNE 1997- DOON GRID MAPPING			
CR 104458	506705,5303040	Grab	L86E 28+965N, sheared mafic volcanic, epidote, cross-cut qtz veining, tr. Py
CR 104459	509385,5304099	Grab	Brown weathered ultramafic?, x-cut qtz vns, 1% c.g. Py cubes
CR 104460	509390,5304092	Grab	Qtz vein (8" wide), tr. Py cubes, vein 060 degrees, 5m east of CR104459
CR 104461	509115,5304485	Grab	SW shore Leahy Lake., qtz-ser-sch, bull qtz, unmineralised
CR 104462	507700,5304175	Grab	Laminated siltstone, 1% c.g. Py, minor qtz veining
CR 104463	508765,5303920	Grab	Sheared mv 1% Py, cross-cut qtz veinlets, north side of CLLB, west of L80E
CR 104464	509507,5304240	Grab	Intercalated qtz vns/tic rich Komatiite?, tr. c.g. Py, veins @ 070 degrees
CR 104465	507880,5302710	Grab	Qtz-epidote vein, rusty stain, pillowed mafic volcanic, qtz amygdules, tr. Py
CR 104466	509585,5304445	Float	Fist-sized qtz float, 10% c.g. Py, vuggy, sericitic, road base, Leahy Claim
CR 104467	507825,5303510	Grab	Rusty qtz vein in sheared, fractured, carbonate-rich mafic volc.
CR 104468	507840,5303530	Grab	Qtz vein in fractured and sheared carbonate-rich mafic volcanic
CR 104469	507740,5303470	Grab	mm-scale Py blebs and qtz veining in sheared mafic volcanic
CR 104470	507615,5303415	Grab	Multi-fractured mafic volcanic with qtz veins, Py, rusty weathering.
CR 104471	509690,5304615	Grab	Weathered tic-rich mafic?, 1% c.g. Py, qtz veinlets, @ metased/metavolc. contact
CR 104472	508980,5303925	Grab	White, c.g. felsic intrusive, 30m. west of Matachewan dike @ L90+00E, tr. Py
CR 104473			HR-9 STANDARD
CR 104474	509405,5304082	Chip	Brown, weathered, Cb-rich u/m?, 1% Py cubes + moulds
CR 104475	509405,5304083	Chip	Brown, weathered, x-cut qtz vns, Chert?, tr. Py, mainly qtz material
CR 104476	509405,5304084	Chip	Brown, weathered, x-cut qtz vns, Chert?, tr. Py, mainly qtz material
CR 104477	509405,5304085	Chip	Brown, weathered ultramafic?, tr. Py, minor qtz veining
CR 104478			HR-9 STANDARD

***Appendix IV: 1:5000 Mapping: Rock Sample Assay Certificates***



# Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

## Geochemical Analysis Certificate

7W-2570-RG1

Company: **WMC INTERNATIONAL LTD**

Date: JUL-01-97

Project: 4057

Attn: T. Goodwin/C. Baker

We hereby certify the following Geochemical Analysis of 16 Core & control samples submitted JUN-26-97 by .

Sample Number	Au PPB	Au Check PPB	Ag PPM	As PPM	Co PPM	Cu PPM	Mo PPM	Ni PPM	Pb PPM	Sb PPM	Zn PPM
CR104458	10	-	0.1	10	19	34	1	18	14	1	34
CR104459	206	225	0.1	36	28	105	1	48	1	2	98
CR104460	3	-	0.1	<5	17	9	1	20	1	2	21
CR104461	Nil	-	0.1	<5	20	8	1	27	12	3	45
CR104462	2	-	0.1	15	45	76	1	626	1	2	172
CR104463	5	-	0.1	34	50	82	1	478	1	1	93
CR104464	7	-	0.1	<5	34	18	1	366	1	2	32
CR104465	9	-	0.1	<5	17	20	5	26	1	2	22
CR104466	195	-	0.8	13	9	29	129	24	9	1	58
CR104467	2	-	0.1	510	62	5	1	1060	1	10	68
CR104468	2	-	0.1	713	61	7	1	1410	1	15	54
CR104469	19	10	0.1	<5	25	48	1	21	1	1	107
CR104470	333	382	0.2	12	13	209	2	32	1	2	64
CR104471	2	-	0.1	41	58	168	1	711	1	1	70
CR104472	Nil	-	0.1	<5	9	5	1	37	1	2	11
CR104473 control	1785	-	0.4	421	1	10	16	5	52	52	7

One assay ton portion used.

Certified by





# Swastika Laboratories

A Division of TSL/Assayers Inc.

Assaying - Consulting - Representation

Established 1928

## Geochemical Analysis Certificate

7W-2829-RG1

Company: **WMC INTERNATIONAL LTD**

Date: JUL-21-97

Project: 4057

Attn: T. Goodwin/C. Baker

We hereby certify the following Geochemical Analysis of 5 Rock samples submitted JUL-15-97 by .

Sample Number	Au PPB	Au Check PPB	Ag PPM	As PPM	Cu PPM	Mo PPM	Ni PPM	Pb PPM	Sb PPM	Zn PPM
CR104474	39	48	0.1	60	123	1	68	1	1	107
CR104475	22	-	0.1	33	74	1	43	5	1	57
CR104476	27	-	0.1	24	36	2	38	74	1	40
CR104477	39	34	0.1	56	101	1	50	1	1	78
CR104478	1764	-	0.4	426	10	19	1	56	47	9

One assay ton portion used.

Certified by Dennis Chantre

***Appendix V: Codes Used in Core Logging***

## Appendix III: CODES USED IN DRILL LOG

### ROCK CODES

#### Sedimentary Rocks

O/B	- Overburden (mainly Quaternary Till)
Sc	- Conglomerate
Sw	- Wacke
Ssl	- Siltstone
Sag	- Argillite
Set	- Polymictic conglomerate (Timiskaming)
Swl	- Wacke or grit (Timiskaming)
Sant	- Arenite (Timiskaming)
Sep	- Conglomerate (Proterozoic- Gowganda)
Swp	- Wacke (Proterozoic- Gowganda)
Ark	- Arkose (Proterozoic- Gowganda)
Sslp	- Siltstone (Proterozoic- Gowganda)
Sagp	- Argillite and siltstone (Proterozoic- Gowganda)

#### Volcanic Rocks

e-Upx	- Pyroxenitic komatiite
Mv	- Mafic volcanic
Mtb	- Tholeiitic basalt
Mtbn	- Mg-rich tholeiitic basalt
Mcab	- Calc-alkaline basalt
Iak	- Intermediate alkalic volcanic rock
Fv	- Felsic volcanic
Fak	- Alkalic felsic volcanic

#### Intrusive Rocks

i-Upx	- Pyroxenite
Mg	- Gabbro
Mgq	- Quartz gabbro
Mgm	- Manitowish Diabase
DT	- Diorite
GD	- Granodiorite
MO	- Monzonite, Monzodiorite
AG	- Monzogranite
G	- Granite
ST	- Syenatoid

#### Rocks of Unearrain Proterolith

U	- Ultramafic rock
M	- Mafic rock
I	- Intermediate rock
F	- Felsic rock

#### Alteration Products and Veins

ak-s	- ankerite-sericite rock
ak-fu	- ankerite-fuchsite rock

#### Alteration Products and Veins (continued)

ak-s-fu	- ankerite-sericite-fuchsite rock
q-vn	- Quartz vein
q-ab-vn	- Quartz-albite vein
q-ak-bx	- Quartz-ankerite breccia
q-fu-vn	- Quartz-fuchsite vein

### PRIMARY FEATURES

fg	- fine grained
mg	- medium grained
cg	- coarse grained
p(s)	- porphyritic (amphiboles)
x	- spinifex
rx	- random spinifex
pl	- pillowed
am	- amygdaloidal
mt	- primary magnetite

### ALTERATION, SULPHIDE, AND VEIN MINERALOGY ABBREVIATIONS

ab	- albite
ak	- ankerite
as	- arsenopyrite
c	- chlorite
cc	- carbonaceous/graphitic
cp	- chalcopyrite
ep	- epidote
fu	- fuchsite
gn	- galena
h	- hematite
l	- calcite
lx	- leucoxene
mo	- molybdenite
po	- pyrrhotite
py	- pyrite
q	- quartz
s	- sericite
sil	- silicified
sp	- sphalerite
sul	- sulphides

### STRUCTURAL CODES

bx	- breccia
ft	- fault
v	- vein
wsh	- weakly sheared
msn	- moderately sheared
ssh	- strongly sheared
S0	- bedding
S1	- first foliation
S2	- second cleavage
frac	- fracture

***Appendix VI: Diamond Drilling Logs***

HOLE NUMBER:	DD97-01	CLAIM NUMBER:	1207604
GRID LOCATION:	L78+00E L293+27N	ELEVATION (A.S.L.)	350.5m
SURVEY LOCATION (UT	507687E 5303410N	LENGTH:	38.0m
CORE SIZE:	BQ	DIP:	-55
BEARING:	360	FINISH:	16 July 97
START:	July 15, 1997	CASING:	BW
CORE STORED AT:	KL Industrial Complex	LOG COMPLETED:	18 July 97
DRILLING CONTRACTOR	H&S Limited(1986)		
LOGGED BY:	CJ Baker		
SIGNED:			

TEST TYPE: Acid

*Depth (metres) Dip (deg.) Azimuth*

		LITHOLOGY		ALTERATION			
FROM	TO	ROCK CODE	DESCRIPTION	Biotite	Calcite	Carbonate	Chlorite
0	5.15		Overburden				
5.15	38.00	Mv	Mafic Volcanic				
			Intercalated massive and foliated, basaltic flows, pillow selvages to 2cm carbonate-filled amygdules (.25cm diameter) euhedral magnetite, chlorite as patches and veinlets throughout, trace c.g. Py blebs in mafic volcanic and carbonate veinlets to 5cms increasing downhole.				5
			5.15-5.42m: c.g., equigranular, mafic intrusive?, agglomerate?				
			5.42-25.29m: dark green f.g. basalt, euhedral magnetite, trace c.g. Py				
			25.29-30.34m: Moderately foliated flow lighter green colour, f.g., carbonate veins increasing downsection, locally brecciated, trace Py as patches, foliation @ 60 deg. to CA, carbonate veins parallel to foliation, sericite? margin to qtz/cb veining @ 29.75m. talc-rich seams (3cms) @ 29.94m leucoxene-rich.				
			30.34-33.83m: Foliated mafic volcanic, light and dark layers, foliation @60 to CA, talc-rich, buff-coloured seams to 5cms @ 29.40 & 33.28m, brecciated locally, trace c.g. Py as patches, V1-type qtz/cb veins most prominent, leucoxene parallel to foliation @ 60 degrees.				
			33.83-38.00m: Massive mafic volcanic, chlorite-rich as per 5.15-25.29m, amygdaloidal, V1-type veining most prominent.				
			E.O.H.				

Arsenic	cP	MINERALIZATION			VEINING		Depth	STRUCTURE	
		Mt	Py	Po	Type	%		Type	Core Angle
		2	tr.		qtz/cb	5	21.24		V1 @ 45 V2 @ 60
			tr.		qtz/cb	10	23.60		V1 @ 45
			tr.		qtz/cb	10	26.12		V2 @ 60
									V1 @ 48 V2 @ 55 V3 @ 15
							32.05	S2	60
			tr.		qtz/cb	5	36.47		V1 @ 45 V2 @ 60

FROM	TO	SAMPLE	COMMENTS	Au (ppb)
24.50	25.00	209101	Mafic volcanic, massive, tr. c.g. Py	Nil
25.00	25.29	209102	ibid	Nil
25.29	26.00	209103	Mafic volcanic, mod. foliation, tr. c.g. Py	Nil
26.00	27.00	209104	ibid	3
27.00	28.00	209105	ibid	2
28.00	29.00	209106	ibid	2
29.00	30.00	209107	ibid	Nil
30.00	30.34	209108	ibid	Nil
30.34	31.00	209109	Mafic volcanic, foliated, local bx, tr. c.g. Py	2



HOLE NUMBER: DD97-01A  
GRID LOCATION: L78+00E L293+26N  
SURVEY LOC (UTM): 507687E 5303409N  
CORE SIZE: BQ  
BEARING: 360  
START: July 16, 1997  
CORE STORED AT: KL Industrial Complex  
DRILLING CONTRACTOR H&S Limited(1986)  
LOGGED BY: CJ Baker

CLAIM NUMBER: 1207604  
ELEVATION (A.S.L.): 350.5m  
LENGTH: 301.00m  
DIP: -55  
FINISH: July 22, 1997  
CASING: BW  
(Pulled)  
LOG COMPLETED: July 24, 1997

SIGNED:

TEST TYPE: Acid

<i>Depth (metres)</i>	<i>Dip (deg.)</i>	<i>Azimuth</i>
50	-54	360
131	-53	360
180	-49	360
233	-49	360
280	-49	360

		LITHOLOGY		ALTERATION			
FROM	TO	ROCK CODE	DESCRIPTION	Biotite	Calcite	Carbonate	Chlorite
0	6.17		OVERBURDEN				
6.17	61.16	Mv	<p>MAFIC VOLCANIC</p> <p>Intercalated massive and foliated basaltic flows.</p> <p>6.17-24.36m: Massive flow, dk. green, pillow selvages to 2cm cb-filled amygdules (.25cm diam.), euhedral magnetite, chl as patches and veinlets throughout, tr. c.g. Py blebs in mafic volc. and cb veinlets to 5cm increasing downsection, epidote alt. assoc. with qtz/cb vn @ 7.35-7.60m</p> <p>24.36-28.40m: Mafic volcanic, foliated lighter green, inc. amygdules (to 5cms), parallel to foliation (060), minor blebs of Py, inc. cb veining to 5cms wide, mainly parallel to foliation.</p> <p>28.40-30.45m: Mafic volcanic, massive as per 6.17-24.38m, decreasing carbonate veins, mainly V1-type.</p> <p>30.45-33.63m: Mafic volcanic, foliated, bleached appearance, foliation @ 60 deg. to CA, leucoxene blebs, sericite? halo (1cm) to carbonate vein @ 33.0m.</p> <p>33.63-40.61m: Mafic volcanic, massive increasing carbonate veining and amygdules (2-3mm diameter), carbonate vein @ 37.10-37.20m.</p>				

		LITHOLOGY		ALTERATION			
FROM	TO	ROCK CODE	DESCRIPTION	Biotite	Calcite	Carbonate	Chlorite
			40.61-42.77m: Mafic volcanic, foliated, increasing carbonate veining, 2mm amygdules throughout.				
			42.77-46.42m: Mafic volcanic, massive decreasing cb vns, mainly V1-type, foliation @ 60 deg. to CA, tr. Py as blebs.				
			46.62-61.16m: Mafic volcanic, foliated, carbonate veining and Py blebs parallel to foliation (060), tr. Py as patches, 50% carbonate veining @ 55.50-55.83m.				
61.16	61.53	Qtz/cb vn	Unmineralised qtz/cb vein.				
61.53	68.38	Mv	Mafic volcanic, foliated, increasing carbonate veining (25%), locally brecciated, additional late milky (albitite?) veins with associated sericite? halo, trace Py.				
68.38	93.50	Srd	Pale green dolomitic rock, polyhedral jointing, 50% qtz/cb veins, brecciated appearance, changes to massive rhombohedral crystals, qtz/cb veins at all angles to CA, aggregates of crystals, fuchsite?-filled veinlets @ 77.65m, "komatiitic fragmental".				
93.50	95.00	Lost Core	Sheared and weathered rock.				
95.00	104.54	Utc	Foliation @ 60 deg. to CA, talc-chlorite schist?, sheared interval with qtz/cb veining parallel to CA, 25% veining.				
			96.00-97.00m: lost core, sheared and weathered.				

FROM	TO	ROCK CODE	DESCRIPTION	ALTERATION			
				Biotite	Calcite	Carbonate	Chlorite
104.54	104.98	Mv	Mafic volcanic, mass., amygdaloidal very hard, silicified?, bleached appearance, pale green colour, decreasing carbonate vns (5%).				
104.98	115.13	Utc	As per 95.00-104.54m, 50% cb veining, pale green talc layers, local brecciation, trace Py, amygdules locally, eg. 113.00m and 113.33m.				
115.13	119.50	Mv	Mafic volcanic, mass, amygdaloidal, as per 104.54-104.98m, chlorite selvages to carbonate veining eg. 117.85m, locally brecciated, very hard silicification?				
119.50	119.80	Qtz/cb vn	Qtz/cb vein with chlorite selvages as thin (1mm) veins, non-mineralised, bleached margins.				
119.80	120.40	Mv	Mafic volcanic, amygdaloidal, pale green, minor quartz veins parallel to foliation @ 60 degrees to CA., very hard as per 115.13-119.50m.				
120.40	120.74	Qtz/cb vn	Qtz/cb veins in mafic volcanic, 2% Py @ 120.70m + cPy?, chlorite selvages, vein @ 80 degrees to CA.				
120.74	122.83	Mv	Mafic volcanic, amygdaloidal, as per 119.80-120.40m.				
122.83	124.30	Utc	As per 104.98-115.13m, trace c.g. Py as blebs, carbonate veining approximately 25%.				
124.30	125.61	Mv	Mafic volcanic, as per 120.74-122.83m, very hard, siliceous?, trace c.g. disseminate Py, intercalated chlorite/ carbonate bleached layers.				
125.61	128.32	Utcb	Talc-carbonate schist, magnesite? moulds @ 127.80m, very soft, talcose.				

FROM	TO	LITHOLOGY		Biotite	Calcite	ALTERATION	
		ROCK CODE	DESCRIPTION			Carbonate	Chlorite
128.32	134.70	Utc	Increasing chlorite downsection, amygdules @127.60m, cb veins parallel to foliation, intercalated light/dark layers.				
134.70	145.29	Snd	Grey-coloured, lithic (sandstone) arenite, local graphitic seams, minor carbonate veining sub-parallel to CA, local disseminated Py.				
145.29	151.29	Sag	Argillite with graphitic seams, alternating grey/black layers, minor carbonate veins @ 45 deg. to CA.				
151.29	152.00	Sgw	Light grey clastic rock, angular clasts to 3cms, mainly qtz with lesser feldspar and rock flour, chlorite matrix & cement (greywacke?) trace interstitial c.g. Py.				
152.00	153.74	Sag	As per 145.29-151.29m, graphitic with greywacke sections.				
153.74	157.89	Snd	Light grey, equigranular sandstone, qtz with much lesser feldspar, biotite grains, silicious cement, trace c.g. Py.				
157.89	192.60	Sag/Sgw	Graphite seams, minor Gw layers intercalated, angular quartz clasts, minor carbonate veins, 'soft-sediment' deformation parallel to foliation @ 60 degrees. 152.00-153.74m: greywacke layer 162.30-162.50m: greywacke layer				
192.60	195.14	Snd	As per 153.74-157.89m, trace c.g. Py 1cm cb veins @ 85 deg. to CA.				
195.14	204.12	Sag	Very graphitic argillite, minor carbonate veining (1%) parallel to foliation.				
204.12	204.50	Qtz/cb vn	Microfractured qtz/cb vein associated with sandstone?, unmineralised.				

FROM	TO	LITHOLOGY		Biotite	Calcite	ALTERATION	
		ROCK CODE	DESCRIPTION			Carbonate	Chlorite
204.50	211.67	Snd	Sandstone with 2cm layers of graphite locally, as per 192.60-195.14m.				
211.67	212.14	Sag	Very graphitic argillite, as per 195.14-204.14m.				
212.14	220.65	Snd	Lithic? arenite as per 204.50-211.67m, 10% carbonate veining @ high angle to CA.				
220.65	241.28	Sak/Sag/Snd	Graphitic intercalated laminae of ark/arenite/argillite, minor cb veins @ 80 degrees to CA, local brecciation, 'soft-sediment' deformation in argillitic layers.				
241.28	241.72	Sag	As per 211.67-212.14m, well-deformed, graphitic seams.				
241.72	250.61	Snd	Lithic? arenite, 1mm-wide graphitic streaks, light grey, rare carbonate veins @ 45 deg. to CA, some fragments to 2 cms.				
250.61	255.30	Sag	Graphitic argillite as per 241.28-241.72m, rare patches of Py associated with carbonate veining.				
255.30	270.85	Snd	Sandstone with laminated (bedding?) graphitic blebs stretched in direction of foliation (060).				
270.85	277.68	Sgw	Greywacke, angular quartz clasts to 2cms, chloritic g/mass, decreasing graphite, trace c.g. Py as blebs.				
277.68	301.00	Snd	Light-grey coloured sandstone, minor graphitic blebs stretched @ high angle to CA. 288.57-288.65m: argillite layer				
	E.O.H.						

FROM	TO	SAMPLE	COMMENTS	Au (ppb)
50.00	50.55	209110	Mafic volcanic, foliated, tr. c.g. Py as blebs.	Nil
50.55	51.00	209111	ibid	3
51.00	51.50	209112	ibid	Nil
60.61	61.16	209113	ibid	74
61.16	61.53	209114	Qtz/cb vein, unmineralised.	Nil
61.53	62.00	209115	Mafic volcanic, foliated, late milky grey cb vn	10
62.00	63.00	209116	ibid	14
63.00	64.00	209117	ibid	7
64.00	65.00	209118	ibid	Nil
65.00	66.00	209119	ibid	341
		209120	HR-9 STANDARD	1826
66.00	67.00	209121	ibid	55
67.00	68.38	209122	ibid	122
68.38	69.00	209123	Dolomite, polyhedral jointing, fuchsite? vns	9
69.00	70.00	209124	Dolomite, rhombohedral crystals.	14
70.00	71.00	209125	ibid	15
71.00	72.00	209126	ibid	10
72.00	73.25	209127	ibid	10
73.25	75.00	209128	ibid	Nil
75.00	78.00	209129	ibid	Nil
78.00	81.00	209130	ibid	Nil
81.00	84.00	209131	ibid	Nil
84.00	87.00	209132	ibid	3
87.00	90.00	209133	ibid	5
90.00	93.50	209134	ibid	5
95.00	98.00	209135	Tlc-Chl Schist, 25% qtz/cb veining.	Nil
98.00	99.00	209136	ibid	2
99.00	100.00	209137	ibid	Nil
100.00	101.00	209138	ibid	Nil
101.00	102.00	209139	ibid	3
		209140	HR-9 STANDARD	1889
102.00	103.00	209141	ibid	Nil
103.00	104.00	209142	ibid	Nil
104.00	104.54	209143	ibid	Nil
104.54	104.98	209144	Mafic volcanic, mass., amygd., silicification?	3
104.98	106.00	209145	Tlc-Chl Schist, 50% qtz/cb vns, tr. Py	12
106.00	107.00	209146	ibid	2
107.00	108.00	209147	ibid	10

FROM	TO	SAMPLE	COMMENTS	Au (ppb)
108.00	109.00	209148	ibid	5
109.00	110.00	209149	ibid	2
110.00	111.00	209150	ibid	Nil
111.00	112.00	209151	ibid	2
112.00	113.00	209152	ibid	7
113.00	114.00	209153	ibid	2
114.00	115.13	209154	ibid	Nil
115.13	117.06	209155	Mafic volcanic, mass., amygd., silicification?	5
117.06	119.51	209156	ibid	2
119.51	119.80	209157	Qtz/cb vn, bleached margins.	Nil
119.80	120.40	209158	Mafic volcanic, mass., silicification?	5
120.40	120.74	209159	Qtz/cb vn in mafic volcanic.	9
		209160	HR-9 STANDARD	1908
120.74	122.83	209161	Mafic volcanic, massive, amygdaloidal.	2
122.83	124.30	209162	Tlc-Chl Schist, qtz/cb vns approx. 25%.	2
124.30	125.61	209163	Mafic volcanic, v. hard, pale green, silicif.?	Nil
125.61	128.32	209164	Tlc-cb Schist, magnesite, ultramafic.	3
128.32	130.00	209165	Tlc-Chl Schist, vesicular?, vn parallel foliation	2
130.00	132.00	209166	ibid	7
132.00	134.70	209167	ibid	2
134.70	136.00	209168	Arenite, sandstone with graphitic seams.	5
202.00	202.28	209169	Cb vn assoc. with graphitic argillite.	Nil
202.28	203.00	210170	Argillite, graphitic, unmineralised	10
203.00	203.40	209171	Cb vn in bleached argillite.	9
203.40	204.12	209172	Cb vn, stockwork in argillite	3
204.12	204.50	209173	ibid	3



HOLE NUMBER:	DD97-02	CLAIM NUMBER:	1207606
GRID LOCATION:	92+00E 300+00N	ELEVATION:	350.5m
SURVEY LOCATION (UT	509110E 5304020N	LENGTH:	160m
CORE SIZE:	BQ	DIP:	-50
BEARING:	360	FINISH:	26 July 97
START:	23 July 1997	CASING:	BW
CORE STORED AT:	Industrial Complex		(Pulled)
DRILLING CONTRACTOR	Heath & Sherwood	LOG COMPLETED:	
LOGGED BY:	CJ Baker		

SIGNED:

TEST TYPE: Acid

Depth (metres)	Dip (deg.)	Azimuth
50	-53	360

FROM	TO	LITHOLOGY		ALTERATION				
		ROCK CODE	DESCRIPTION	Biotite	Calcite	Carbonate	Chlorite	Sericite
0.00	3.27		Overburden					
3.27	18.65	Qtz/Ser/Ank Zone	Qtz-ankerite zone in mafic volcanic? pale green, polyhedral jointing, pale yellow leucoxene with intense brittle deformation, silicification?, sericite, with some weathered sections qtz/cb-filled microfractures (30% veins), pyritisation to 1% locally 1mm seams parallel to foliation. Bleached appearance, fuchsite @ 13.30m?  3.81-4.20m: weathered section 5.01-6.18m: weathered section					
18.65	40.06	Srd	Mottled appearance, tr. dissem. Py, komatiitic (spinifex-textured) fragments, minor (< 1%) qtz/cb veins @ high angle to CA, increasing downhole to 5%, silicification?, leucoxene-rich fragments, talc-rich sections, fragmental?, intense carbonate alteration. 34.15m: 8cm fragment 34.46m: 5cm fragment					
40.06	45.16	Utc	Talc-chlorite schist with 2% pyritised angular fragments? to 1cm, c.g. Py parallel to bedding? in 2mm seams.					
45.16	45.72	Qtz/cb vn	Sericitic margins, minor carbonate veinlets, trace c.g. Py, leucoxene-rich fragments.					
45.72	55.1	Utc	Talc-chlorite schist, strong deformation, talcose, CR 60%, carbonate veining transposed parallel to foliation @ 45 degrees to CA, schistosity increasing downsection to 50% of core.					

		LITHOLOGY					
FROM	TO	ROCK CODE	DESCRIPTION	Biotite	Calcite	Carbonate	Chlorite
			46.00-47.00m: Lost core 47.29-47.39m: weathered core 48.06-48.29m: weathered core				
55.10	59.24	Mv	Komatiitic? basalt with increasing foliation downsection.  55.10-59.24m: Komatiitic? basalt, very minor qtz/cb veins, light-grey in color, veins @ high angle to CA.  59.24-69.92m: foliated mafic volcanic @ 65 deg. to CA, increasing qtz/cb veins to 50% locally, bx sections, 5cm graphite seams @ 60.45m and 61.80m associated with increasing qtz/cb veins, fault? Bright yellow leucoxene @ 60.45-60.65m.				
69.92	72.64	U tcb	Talcose with very minor qtz/cb veins, trace disseminated Py.				
72.64	80.60	Mv	Mafic volcanic, (komatiitic? basalt) stretched varioles? to 5cms in plane of foliation trace c.g. Py, sericitic, minor qtz/cb veining.				
80.60	82.90	FI	Felsic intrusive, c.g. spotty appearance high felsic index, minor carbonate veins @ high angle to CA				
82.90	88.86	Mv	Mafic volcanic, komatiitic? basalt increasing carbonate veining and graphite downsection, core highly fractured, 80% CR.				
88.86	89.00	Qtz/cb vn	Qtz-carbonate vein, 1% Py, albititic?				

FROM	TO	LITHOLOGY		DESCRIPTION	Biotite	Calcite	Carbonate	Chlorite
		ROCK CODE						
89.00	92.00	Mv		Mafic volcanic, komatiitic? basalt, brittle core, increasing graphitic seams, 80% C.R.				
92.00	92.75	Qtz/cb vn		Qtz/carbonate vein, graphite smears on upper and lower contacts, nil Py.				
92.75	102.16	Mv		Komatiitic? basalt, increasing carbonate alteration microfracturing and graphitic sections, cb-filled seams at all angles to CA, trace dissem. Py.				
				93.30-94.00m: lost core				
102.16	104.95	Sag/Snd		Alternating light and carbonaceous layers, argillite intercalated with minor sandstone sections (rounded), to sub-rounded grains, graphitic shear @ 102.12m, siliceous cement.				
104.95	120.00	Snd		Buff-coloured sandstone, rounded grains, diagnostic black shaley frags, (Temiskaming Group rocks?), undeformed.				
120.00	130.49	Sag		As per 102.16-104.95m with some sandstone sections.				
130.49	134.29	Snd		Lithic sandstone, as per 104.95-120.00m, fragments to 2mm.				
134.29	138.32	Sag		Laminated argillite, bedding @ 60 degrees to CA.				
138.32	138.42	Qtz/cb vn		Unmineralised qtz/carbonate vein.				

FROM	TO	LITHOLOGY		Biotite	Calcite	ALTERATION	
		ROCK CODE	DESCRIPTION			Carbonate	Chlorite
138.42	143.51	Sag	Laminated argillite as per 134.29-138.32m.  139.00-139.65m: Lost core 143.00-143.51m: silt-grade material				
143.51	143.71	Sak	Arkose, mainly feldspar grains, lesser quartz, carbonaceous.				
143.71	145.10	Sag	Siltstone, as per 143.00-143.51m.				
145.10	145.48	Sak	As per 143.51-143.71m				
145.48	147.00	Sag	As per 138.42-143.00m, 'soft-sediment' deformation.				
147.00	147.50	Qtz/cb vn	Qtz/cb vein, unmineralised.				
147.50	150.23	Sag	As per 145.48-147.00m.				
150.23	150.56	Qtz/cb vn	Qtz/cb vein, minor Py and fuchsite?				
150.56	151.70	Sag	As per 147.50-150.23m.				
151.70	155.20	Snd	As per 130.49-134.29m, foliated				
155.20	156.07	Sag	As per 150.56-151.70m.				
156.07	160.00	Snd	Lithic sandstone, as per 151.70m -- 155.20m.				

E.O.H.

FROM	TO	SAMPLE	COMMENTS	Au (ppb)
3.27	5.00	209174		89
5.00	6.18	209175		703
6.18	8.00	209176		91
8.00	10.00	209177		338
10.00	12.00	209178		533
12.00	14.00	209179		537
		209180	HR-9 STANDARD	1644
14.00	16.00	209181		2095
16.00	18.65	209182		530
18.65	20.03	209183		7
20.03	20.60	209184		3
20.60	23.00	209185		22
23.00	26.25	209186		Nil
26.25	29.00	209187		2
29.00	32.00	209188		2
32.00	35.00	209189		7
35.00	38.00	209190		3
38.00	40.06	209191		7
40.06	40.81	209192		9
40.81	43.00	209193		5
43	45.16	209194		7
45.16	45.72	209195		3
45.72	48.00	209196		Nil
48.00	49.00	209197		Nil
49.00	51.00	209198		22
51.00	53.00	209199		5
53.00	55.10	209200		2
55.10	57.50	209201		7
57.50	59.24	209202		2
59.24	61.35	209203		3
61.35	62.00	209204		3
62.00	65.00	209205		2
65.00	67.00	209206		2
67.00	69.92	209207		2
69.92	72.64	209208		3
72.64	75.00	209209		3
75.00	78.00	209210		5
78.00	80.60	209211		3
80.60	82.90	209212		2

FROM	TO	SAMPLE	COMMENTS	Au (ppb)
82.90	85.00	209213		5
85.00	88.86	209214		3
88.86	89.00	209215		3
89.00	91.00	209216		5
91.00	92.00	209217		7
92.00	92.75	209218		Nil
92.75	96.00	209219		5
		209220	HR-9 STANDARD	1738
96.00	98.00	209221		17
98.00	100.00	209222		2
100.00	102.16	209223		Nil
102.16	102.80	209224		22
138.32	138.42	209225		2
147.00	147.50	209226		Nil
150.23	150.56	209227		51

HOLE NUMBER:	DD97-03		CLAIM NUMBER:	1207604
GRID LOCATION:	72+00E	292+50N	ELEVATION (A.S.L.):	350.5m
SURVEY LOCATION (UTM):	507155E	5303345N	LENGTH:	233m
CORE SIZE:	BQ		DIP:	-60
BEARING:	360		FINISH:	31 July 97
START:	26 July 97		CASING:	BW
CORE STORED AT:	KL Complex			(pulled)
DRILLING CONTRACTOR:	H&S		LOG COMPLETED:	2 Aug 97
LOGGED BY:	CJ Baker			
SIGNED:				

TEST TYPE: Acid

Depth (m)	Dip (degrees)	Azimuth (degrees)
50	-55	360
107	-53	360
158	-53	360
200	-53	360



LITHOLOGY				ALTERATION							MINERALIZATION					VEINING		STRUCTURE		
FROM	TO	ROCK CODE	DESCRIPTION	blo	cal	cb	chl	gr	ser	sil	as	cp	mt	po	py	Type	%	Depth	Type	Core Angle
0.00	44.70		Overburden																	
44.70	56.61	Sak	Arkose, clastic texture, not well sorted, angular clasts, graphitic slip structures locally, minor (<5%) qtz/cb veins @ 60 deg. to CA, feldspar clasts to 2 cms, lesser quartz, biotite with chloritic fragments, silicate? cement, carbonaceous clasts increasing down section, trace disseminated Py.  51.00-53.00m: pitted core surface (weath. feldspar?) 45.56-45.70m: qtz/cb vein, nil Py 45.70-55.00m: qtz/cb vein, 1%Py 56.38-56.61m: qtz/cb vein, graphite, 1% Py																	
56.61	66.60	Sag	Graphitic shale, laminated @ 60 degrees to CA, pyrite as nodules locally parallel to bedding, very minor 1% qtz/cb veins, graphitic slips, trace, very f.g. Py, black (carbonaceous) throughout.  56.71-56.97m: 50% core recovery. 56.97-57.12m: qtz/cb veining. 58.10-58.15m: convolute? bedding																	
66.60	68.79	Sak	Arkosic, as per 44.70-56.61m, local brecciation.  68.76-68.79m: qtz/cb vein, nil Py.																	
68.79	69.87	Sag	Graphitic shale as per 56.61-66.60m.																	
69.87	76.14	Ssl	Buff-coloured siltstone intercalated with black (carbonaceous) shale, silt-grade material, Py nodules to 4cms diameter (74.80m), increasing qtz/cb veining to 5% down section @ 85 degrees to CA.																	
76.14	100.80	Ssl/Sag	Graphitic shale intercalated with lesser arkosic sections, increasing graphite content down section, wide zones of graphite common, qtz/cb veining & graphite increasing down section to contact, local brecciation.																	

LITHOLOGY				FERRA								ALIZ					V B		TRUC		Core Angle
FROM	TO	ROCK CODE	DESCRIPTION	bio	cal	cb	chl	gr	ser	sl	ss	cp	mt	po	py	Type	%	Depth	Type		
			85.79-85.89m: Carbonate-filled breccia zone																		
			87.14-87.34m: Carbonate-filled breccia zone.																		
			92.86m: 10cm diameter Py nodule.																		
100.80	101.40	Sak	Arkosic?, mainly feldspar fragments.																		
101.40	101.78	Sgw	Greywacke, angular clasts, mainly quartz and feldspar, chloritic cement.																		
101.78	102.07	Sag	Black (carbonaceous) laminated shale.																		
102.07	102.88	Sgw	Greywacke, as per 101.40-101.78m.																		
102.88	105.70	Ssl	Light grey siltstone, graphitic slips associated with quartz/ carbonate veining, local brecciation.																		
105.70	107.20	Sag	Black graphitic shale intercalated with quartz/carbonate veining.																		
107.20	117.86	Sag/Sgw	Intercalated graphitic shale and greywacke sections.																		
117.86	123.18	Ssl	Light grey siltstone with primary structures, younging up section?@ 122.66m, increasing carbon content down section toward contact.																		
123.18	126.57	Sgw	Black (carbonaceous) greywacke, mainly feldspar fragments, trace Py nodules.																		
126.57	127.93	Ssl	Laminated siltstone with primary sediment structures, bedding @ 80 degrees to CA, stretched carbonaceous fragments define bedding.																		
127.93	128.34	Sak	Carbonaceous arkose, as per 100.80-101.40m.																		
128.34	129.44	Ssl	Buff-coloured siltstone as per 126.57-127.93m.																		
129.44	145.30	Sgw/Snd	Medium grey, massive greywacke or sandstone, minor argillic sections eg. 141.62-141.75m.																		
145.30	147.00	Smd	Buff-coloured mudstone, no bedding plane, 'soft-sediment' structures.																		
147.00	147.12	Qtz/cb vn	Quarz/carbonate vein, nil pyrite																		
147.12	148.80	Sak	Medium grey arkose as per 127.93-128.34m, stretched carbonaceous fragments define bedding @ 70 degrees to CA.																		

DLOG				ERAT								MINERALIZA					VE		STRUCTURE		
FROM	TO	ROCK CODE	DESCRIPTION	bio	cal	cb	chl	gr	ser	sil	as	cp	mt	po	py	Type	%	Depth	Type	Core Angle	
148.80	166.79	Sgw	Massive greywacke with lesser sandstone sections, stretched carbonaceous frags define bedding @ 70 degrees to CA.																		
166.79	167.80	Ssl	Siltstone with sharp lower contact, well laminated, light and carbonaceous sections, 'soft sediment' structures.																		
167.80	168.73	Sgw	Mass greywacke as per 148.80-166.79m, angular quartz fragments, black carbonaceous fragments parallel to bedding @ 80 degrees to CA.																		
168.73	175.18	Ssl	Laminated siltstone, some carbonaceous sections.																		
175.18	178.65	Sgw	Greywacke with angular quartz fragments to 2 cms. 178.40-178.50m: Qtz vein.																		
178.65	192.31	Snd	Siliceous sandstone, minor carbonaceous stretched fragments.																		
192.31	233.00	Sgw/Snd	Massive greywacke with some sandstone sections, fragments to 3cms, quartz/carbonate to 50% locally, minor black carbonaceous fragments stretched parallel to bedding.																		

E.O.H.

FROM	TO	SAMPLE	COMMENTS	Au (PPB)	Ag (PPM)	As (PPM)	Cu (PPM)
53.00	54.70	209228		9			
54.70	55.00	209229		10			
55.00	56.38	209230		5			
56.38	56.61	209231		12			
56.61	57.12	209232		10			
193.00	194.00	209233		9			
194.00	195.00	209234		5			
195.00	196.00	209235		2			
196.00	197.00	209236		2			
197.00	198.00	209237		5			
198.00	199.00	209238		24			
		209239	HR-9 STANDARD	1817			

<b>HOLE NUMBER:</b>	<b>DD97-04</b>		<b>CLAIM NUMBER:</b>	<b>1207604</b>
<b>GRID LOCATION:</b>	<b>L96+00E</b>	<b>308+00N</b>	<b>ELEVATION (A.S.L.):</b>	<b>350.5m</b>
<b>SURVEY LOCATION (UTM):</b>	<b>509555E</b>	<b>5304810N</b>	<b>LENGTH:</b>	<b>134m</b>
<b>CORE SIZE:</b>	<b>BQ</b>		<b>DIP:</b>	<b>-50</b>
<b>BEARING:</b>	<b>360</b>		<b>FINISH:</b>	<b>3 Aug 97</b>
<b>START:</b>	<b>1 Aug 97</b>		<b>CASING:</b>	<b>BW</b>
<b>CORE STORED AT:</b>	<b>KL Complex</b>			
<b>DRILLING CONTRACTOR:</b>	<b>H&amp;S</b>			
<b>LOGGED BY:</b>	<b>CJ Baker</b>		<b>LOG COMPLETED:</b>	<b>6 Aug 97</b>
<b>SIGNED:</b>				

**TEST TYPE: Acid**

<b>Depth (m)</b>	<b>Dip (degrees)</b>	<b>Azimuth (degrees)</b>
<b>50</b>	<b>-49</b>	<b>360</b>
<b>100</b>	<b>-48</b>	<b>360</b>

LITHOLOGY				ALTERATION							MINERALIZATION					VEINING		STRUCTURE		
FROM	TO	ROCK CODE	DESCRIPTION	bio	cal	cb	chl	gr	ser	sil	as	cp	mt	po	py	Type	%	Depth	Type	Core Angle
0.00	12.63		Overburden																	
12.63	13.12	Sgw	Light grey, massive greywacke, minor weathering, angular to sub-rounded clasts, clastic texture, and not well sorted, chloritic? matrix, nil Py.																	
13.12	13.74	Sag	Graphitic argillite, bedding @ 60 degrees to CA., qtz/cb veining sub-parallel to bedding.																	
13.74	14.60	Sgw/Sag	Weathered, light-grey greywacke, lesser argillitic sections, highly fractured core, minor graphite.																	
14.60	17.64	Sgw	Greywacke, coarse to finer-grained clasts down section, largest clast 2 cms @ base, chloritic cement, minor stretched carbonaceous clasts parallel to bedding.																	
17.64	18.77	Sag	Graphitic shale, contorted qtz/cb veinlets sub-parallel to core axis, nil Pyrite.																	
18.77	19.00	Qtz/cb vn	Quartz/cb vein, minor brecciation, nil Pyrite.																	
19.00	25.17	Sgw	Greywacke with carbonaceous clasts (10%) define bedding @ 70 degrees to CA, <1% qtz/cb veining parallel to bedding.																	
25.17	26.38	Sak	Light grey arkose? mainly feldspar, lesser quartz clasts.																	
26.38	26.90	Sag	Graphitic argillite, soft-sediment deformation.																	
26.90	28.90	Sgw	Greywacke, chloritic infill, carbonaceous stretched clasts, carbonate infill @ 28.19m.																	
28.90	29.14	Sag	Graphitic shale sections, deformed carbonate veins aligned parallel to bedding.																	
29.14	30.14	Sgw	Greywacke, graphitic clasts.																	
30.14	30.89	Sag	Graphitic argillite, 10% carbonate veins, minor muddy sections.																	

LITHOLOGY				ALTERATION								MINERALIZATION					VEINING		STRUCTURE		
FROM	TO	ROCK CODE	DESCRIPTION	blo	cal	cb	chl	gr	ser	sil	ss	cp	mt	po	py	Type	%	Depth	Type	Core Angle	
30.89	31.46	Sgw	Greywacke, lesser intercalated graphitic shaley sections.																		
31.46	31.71	Sag	Argillite with cb veins aligned parallel to bedding.																		
31.71	32.26	Sgw	Greywacke, rounded carbonaceous clasts.																		
32.26	35.09	Sag	Graphitic shale intercalated with greywacke sections, graded bedding @ 32.42m? younging down section?, massive graphite at lower contact.																		
35.09	35.33	Qtz/cb vn	Quartz/cb vein, nil pyrite.																		
35.33	40.74	Sc	Polymictic conglomerate, light grey-green, clasts mainly chert, porphyry, albite?, v. siliceous groundmass, chlorite-rich cement, clasts to 4 cms, 1% c.g. Py locally.																		
40.74	83.02	Sgw	Greywacke, intercalated with sandstone sections, minor arkosic? sections, qtz/cb veining @ high angle to CA.  41.93-42.05m: Qtz/cb vein, nil Py 47.96-48.04m: Qtz/cb vein, nil Py 48.31-48.39m: Qtz/cb vein, nil Py 58.16-58.33m: Qtz/cb vein, nil Py 59.19-59.30m: Qtz/cb vein, chlorite selvage, 1% c.g. Py 61.41-61.52m: Qtz/cb vein, nil Py 64.30-64.90m: Qtz/cb vein, nil Py																		
83.02	87.68	Sc	Polymictic conglomerate, as per 35.33-40.74m, some rounded and some deformed clasts, size of clast increasing down section, 1% Py locally.																		
87.68	94.00	Snd	Sandstone, quartz cement, <1% quartz/carbonate veining.																		
94.00	132.16	Ssl	Silt intercalated with graphitic shale sections, bedding @ 60 degrees to CA, increasing graphite down section.																		
132.16	134.00	Snd	Sandstone																		
E.O.H.																					

FROM	TO	SAMPLE	COMMENTS	Au (PPB)	Ag (PPM)	As (PPM)	Cu (PPM)
34.00	35.09	209240	Carbonaceous shale, 10% qtz/cb, nil Py.	24			
35.09	35.33	209241	Qtz/cb vein, nil Py.	10			
35.33	36.00	209242	Polymictic conglomerate, siliceous, tr. Py.	12			
36.00	37.00	209243	ibid	17			
37.00	38.00	209244	ibid	Nil			
38.00	39.00	209245	ibid	3			
39.00	40.23	209246	ibid	7			
40.23	40.74	209247	Polymictic conglomerate, siliceous, 1%Py.	135			
40.74	41.50	209248	Greywacke, nil Py.	9			
41.50	43.00	209249	Gw, qtz/cb veining, 1%c.g.Py	14			
57.00	58.16	209250	Gw + sandstone + qtz/cb veining.	3			
58.16	58.32	209251	Qtz/cb vein, nil Py.	2			
58.32	59.19	209252	Gw + sandstone, nil Py.	7			
59.19	59.30	209253	Qtz/cb vein, chl selvages, tr. Py.	7			
59.30	60.00	209254	Gw + sandstone, nil Py.	17			
		209255	HR-9 STANDARD	1954			



HOLE NUMBER:	DD97-05		CLAIM NUMBER:	1207606
GRID LOCATION:	L92+00E	299+00N	ELEVATION (A.S.L.):	350.5m
SURVEY LOCATION (UTM):	509110E	5303920N	LENGTH:	197.65m
CORE SIZE:	BQ		DIP:	-50
BEARING:	360		FINISH:	6 Aug 97
START:	4 Aug 97		CASING:	BW
CORE STORED AT:	KL Complex			
DRILLING CONTRACTOR:	H&S			
LOGGED BY:	CJ Baker		LOG COMPLETED:	18 Aug 97
SIGNED:				

TEST TYPE: Acid

Depth (m)	Dip (degrees)	Azimuth (degrees)
50	-50	360
100	-48	360

LITHOLOGY				ALTERATION								MINERALIZATION					VEINING		STRUCTURE		
FROM	TO	ROCK CODE	DESCRIPTION	bio	cal	cb	chl	gr	ser	sil	as	cp	mt	po	py	Type	%	Depth	Type	Core Angle	
0.00	9.00		Casing																		
9.00	27.45	Mv	Amygdaloidal basalt, carbonate-filled vesicles, f.g., massive, dark green, quartz/carbonate veining increasing down section to 15% at high angle (60-90 degrees) to CA.,minor bleaching, magnetism increasing towards contact, bleached, quartz/ankerite deformed sections. 9.00-9.50m: fractured core, 60% recovery. 9.00-27.45m: massive, amygdaloidal basalt, nil Py																		
27.45	34.43	QFP	High felsic index porphyry, buff-coloured, sheared locally, pale green fuchsitic? sections, disseminated euhedral Py, 5% locally, milky quartz veinlets at all angles to CA, albitisation?																		
34.43	41.26	Mv	Amygdaloidal basalt as per 9.00m-27.45m, increasing bleaching downsection, 2% quartz/carbonate veining, moderate deformation, nil pyrite.																		
41.26	63.16	Qtz/Ser/Ank Zone	Bleached, sheared quartz/sericite/ankerite zone, pale green, polyhedral jointing, pale yellow leucoxene with intense brittle deformation, bleached appearance.																		
63.16	69.60	Mv	Moderately deformed basalt, carbonate alteration as in 34.43m-41.26m.																		
69.60	69.67	Qtz/cb vn	Quartz/carbonate vein, nil Py.																		
69.67	112.05	Srd	Komatiitic fragmental, spinifex-textured clasts, strong foliated sections @ 60 degrees to CA,, carbonatisation, mottled appearance.																		
112.05	112.16	Sd	Massive dolomite.																		
112.16	114.88	Utc	Blue-grey, talcose, intercalated with massive, black 'antigorite?', nil Py.																		
114.88	116.71	U	Antigorite?, massive, equigranular, hard, 1% carbonate veins, nil Py.																		
116.71	116.87	Qtz-cb vn	Quart/carbonate vein, nil Py																		

LITHOLOGY				ALTERATION							MINERALIZATION					VEINING		STRUCTURE		
FROM	TO	ROCK CODE	DESCRIPTION	bio	cal	cb	chl	gr	ser	sil	as	cp	mt	po	py	Type	%	Depth	Type	Core Angle
116.87	118.3	U	Antigorite, as per 114.88-116.71m.																	
118.3	122.15	Fault	Talc-carbonate schist, weathered, fault zone?.																	
122.15	134.38	Tlc-cb	Dark blue/grey talc-carbonate, sheared locally, trace c.g. Py																	
134.38	140.89	U	Hard, black, equigranular as per 116.87-118.30m.																	
140.89	143.09	Utcb	Talc-carbonate, as per 122.15-134.38m																	
143.09	146.90	U	Antigorite, as per 134.38-140.89m																	
146.90	151.90	Utcb	Talc-carbonate, as per 140.89-143.09m																	
151.90	156.33	U	Antigorite as per 146.90-151.90m.																	
156.33	156.65	Qtz/cb vn	Quartz-carbonate vein, massive, tourmaline?																	
156.65	197.65	Sag/Sgw	Intercalated foliated massive sediments, local strong deformation, minor f.g. Py in seams parallel to bedding, increasing graphite content down section.																	
			171.60-172.19m: greywacke?																	
			176.39-178.00m: siltstone																	
			197.00-197.65m: siltstone																	

E.O.H.

FROM	TO	SAMPLE	COMMENTS	Au (PPB)	Ag (PPM)	As (PPM)	Cu (PPM)
27.00	27.43	209256		14			
27.43	28.00	209257		5			
28.00	29.18	209258		10			
29.18	30.00	209259		Nil			
		209260	HR-9 STANDARD	1869			
30.00	31.00	209261		Nil			
31.00	32.00	209262		3			
32.00	33.00	209263		5			
33.00	34.43	209264		7			
41.26	42.00	209265		9			
42.00	43.00	209266		7			
43.00	44.00	209267		17			
44.00	45.00	209268		15			
45.00	46.00	209269		7			
46.00	47.00	209270		101			
47.00	48.00	209271		19			
48.00	49.00	209272		5			
49.00	50.00	209273		7			
50.00	51.00	209274		7			
51.00	52.00	209275		15			
52.00	53.00	209276		14			
53.00	54.00	209277		10			
54.00	55.00	209278		10			
55.00	56.00	209279		9			
		209280	HR-9 STANDARD	1887			
56.00	57.00	209281		12			
57.00	58.00	209282		9			
58.00	59.00	209283		15			
59.00	60.00	209284		19			
60.00	61.00	209285		14			
61.00	62.00	209286		17			
62.00	63.16	209287		146			
118.30	119.00	209288		15			
119.00	120.00	209289		10			
120.00	121.00	209290		3			
121.00	122.15	209291		9			
122.15	123.00	209292		24			
123.00	124.00	209293		12			
124.00	125.00	209294		3			
125.00	126.00	209295		2			

FROM	TO	SAMPLE	COMMENTS	Au (PPB)	Ag (PPM)	As (PPM)	Cu (PPM)
126.00	127.00	209296		Nil			
127.00	128.00	209297		Nil			
128.00	129.00	209298		Nil			
129.00	130.00	209299		14			
		209300		1800			
130.00	131.00	209301		Nil			
131.00	132.00	209302		2			
132.00	133.00	209303		Nil			
133.00	134.38	209304		Nil			
134.38	136.00	209305		3			
136.00	137.00	209306		5			
137.00	138.00	209307		Nil			
138.00	139.00	209308		Nil			
139.00	140.00	209309		9			
140.00	140.89	209310		Nil			
140.89	142.00	209311		Nil			
142.00	143.09	209312		Nil			
146.90	148.00	209313		Nil			
148.00	149.00	209314		Nil			
149.00	150.00	209315		2			
150.00	151.00	209316		Nil			
151.00	151.90	209317		Nil			
151.90	153.25	209318		3			
153.25	155.00	209319		2			
		209320	HR-9 STANDARD	1850			
155.00	156.33	209321		2			
156.33	156.65	209322		3			
156.65	157.00	209323		14			

HOLE NUMBER:	DD97-06		CLAIM NUMBER:	1207606
GRID LOCATION:	95+00E	299+00N	ELEVATION (A.S.L.):	350.5m
SURVEY LOCATION (UTM):	509403E	5303928N	LENGTH:	223.00
CORE SIZE:	BQ		DIP:	-50
BEARING:	360		FINISH:	19 Oct 97
START:	15 Oct 1997		CASING:	Pulled
CORE STORED AT:	KL Complex		LOG COMPLETED:	3 Dec 97
DRILLING CONTRACTOR:	H&S			
LOGGED BY:	CJ Baker			
SIGNED:				

TEST TYPE: Acid

Depth (m)	Dip (degrees)	Azimuth (degrees)
100m	-49	360
221m	-46	360

LITHOLOGY				ALTERATION								MINERALIZATION					VEINING		STRUCTURE		
FROM	TO	ROCK CODE	DESCRIPTION	blo	cal	cb	chl	gr	ser	sil	as	cp	mt	po	py	Type	%	Depth	Type	Core Angle	
0.00	16.00	O/B	Overburden, mafic volcanic boulders, Q-Ank-Ser																		
16.00	37.00	Mv	MAFIC VOLCANIC, agglomerate, amygdaloidal basalt, dark green. 16.00-16.50m: weathered rock 16.50-23.50m: moderate foliation, decreasing downsection 23.50-29.51m: massive amygdaloidal basalt 29.51-37.00m: intercalated agglom., amygd. basalt																		
37.00	39.30	QFP	QTZ FELDSPAR PORPHYRY High felsic index, m.g., pink, tr. Py																		
39.30	63.74	Mv	MAFIC VOLCANIC, agglomerate, massive																		
63.74	71.40	ti-Mv	TUFF, fine-grained, light grey																		
71.40	74.47	Qtz/ank Zone	QUARTZ/ANKERITE ZONE, bleached, yellow coloration deformed agglomerate?																		
74.47	124.50	ti-MV	TUFF, very fine-grained, gray, sections of hydrothermal breccia veins with black (carbonaceous) g/mass, ladder veining, microfracturing, variable alteration. 74.47-83.76m: grey/green tuff, 20% cb veining. 83.76-89.00m: yellow, qtz/ank zone (leucoxene), microfractures, hydrothermal breccia locally with qtz/carbonate veining. 89.00-99.70m: grey, fine-grained tuff, 20% carbonate veining, microfractures, breccia parallel to CA. 99.70-112.25m: quartz/ank, leucoxene, tr. c.g. Py, minor hydrothermal breccia sections. 112.25-124.50m: grey, fine-grained tuff?, microfractured, 5% qtz/cb veining.																		
124.50	163.33	Mv	MAFIC VOLCANIC, agglomerate, pale green clasts, dark green matrix, clasts to 10cm, minor c.g. Py locally. 154.50m: Py-rimmed clast 143.05-143.28m: classic agglomerate section.																		

LITHOLOGY				ALTERATION								MINERALIZATION					VEINING		STRUCTURE		
FROM	TO	ROCK CODE	DESCRIPTION	bio	cal	cb	chl	gr	ser	sil	as	cp	mt	po	py	Type	%	Depth	Type	Core Angle	
163.33	173.00	Srd	FRAGMENTAL, spinifex-textured clasts to 5cms in dark, fine-grained matrix. 164.62-164.88m: classical spinifex texture.																		
173.00	179.30	Mv	AGGLOMERATE?, talc-rich, very strong carbonatisation, pale green (pure) talc sections to 2cm wide locally.																		
179.30	183.60	Srd	FRAGMENTAL, as per 163.33-173.00m																		
183.60	192.30	Mv	AGGLOMERATE, pale green clasts 0.1-10cms, dark f.g. matrix, rare qtz/cb veins @ 25 deg. to CA.																		
192.30	200.53	Sd	DOLOMITE, pale green to white, foliation increasing down section, 60 degrees to CA.																		
200.53	202.90	Mv	TUFF?, grey coloured, medium-grained, qtz/cb veins @ all angles to CA, nil Pyrite.																		
202.90	205.25	Sd	DOLOMITE, pale green talc locally, moderate foliation @ 60 degrees to CA.																		
205.25	205.80	U	ANTIGORITE, massive, dark green, 1% fine-grained Pyrite throughout.																		
205.80	209.20	Sd	DOLOMITE, strong foliation, talc-rich sections locally. 206.50-206.70m: weathered section, fault gouge?																		
209.20	209.80	ft	FAULT gouge, carbonate, chlorite, talc, weathered.																		
209.80	213.68	Tlc-Chl Schist	TLC-CHLORITE SCHIST, foliation @ 60 degrees to CA																		
213.68	213.89	Qtz/cb Vein	QUARTZ/CARBONATE VEIN, nil Pyrite.																		
213.89	217.50	Tlc-Chl Schist	TALC-CHLORITE SCHIST, weathered locally.																		
217.50	218.35	ft	FAULT gouge, weathered.																		
218.35	223.00	Tlc-Chl Schist	TALC-CHLORITE SCHIST, as per 213.89-217.50m.																		

E.O.H.



FROM	TO	SAMPLE	COMMENTS	Au (PPB)	Ag (PPM)	As (PPM)	Cu (PPM)
37.00	38.00	209343	QFP, tr. Py				
38.00	39.00	209344	QFP, tr. Py				
39.00	39.30	209345	QFP, tr. Py				
41.74	42.96	209346	Bleached qtz-cb zone, graphite?, tr. Py				
71.40	72.00	209347	Bleached qtz-cb zone				
72.00	73.00	209348	ibid				
73.00	74.00	209349	ibid				
		209350	HR-9 STANDARD				
74.00	74.47	209351	Bleached qtz/cb zone				
74.47	75.00	209352	Grey, fractured tuff, 10% cb veins				
75.00	76.00	209353	ibid				
76.00	77.00	209354	ibid				
77.00	78.00	209355	ibid				
78.00	79.00	209356	ibid				
79.00	80.00	209357	ibid				
80.00	81.00	209358	Fractured tuff? zone, grey, graphitic?, hydrothermal veins.				
81.00	82.00	209359	Grey/green tuff, unmineralised				
82.00	83.00	209360	ibid				
83.00	84.00	209361	Grey/green tuff, qtz/cb hydrothermal veins, graphite? in g/mass.				
84.00	85.00	209362	Bleached qtz-Ak zone				
85.00	86.00	209363	ibid, leucoxene				
86.00	87.00	209364	ibid				
87.00	88.00	209365	ibid, hydrothermal breccia veins, black (graphite?) g/mass.				
88.00	89.00	209366	ibid				
89.00	90.00	209367	Bleached qtz/Ak zone, nil Py				
90.00	91.00	209368	ibid, black g/mass in hydrothermal bx veins				
91.00	92.00	209369	Bleached qtz/Ak zone, tr. Py				
		209370	HR-9 STANDARD				
92.00	93.00	209371	Bleached qtz/Ak zone, nil Py				
93.00	94.00	209372	ibid, ladder veins in hydrothermal breccia.				
94.00	95.00	209373	ibid				
95.00	96.00	209374	ibid				
96.00	97.00	209375	ibid				
97.00	98.00	209376	ibid				
98.00	99.00	209377	ibid				
99.00	100.00	209378	ibid				
100.00	101.00	209379	Bleached qtz/Ak zone, leucoxene, 1%Py				
101.00	102.00	209380	ibid				
102.00	103.00	209381	ibid, hydrothermal breccia veins.				
103.00	104.00	209382	ibid, tr. Py				

FROM	TO	SAMPLE	COMMENTS	Au (PPB)	Ag (PPM)	As (PPM)	Cu (PPM)
104.00	105.00	209383	Bleached qtz/Ak zone, leucoxene				
105.00	106.00	209384	ibid, tr. Py				
106.00	107.00	209385	ibid, tr. Py				
107.00	108.00	209386	ibid, tr. Py				
108.00	109.00	209387	ibid, tr. Py				
109.00	110.00	209388	ibid, tr. Py				
110.00	111.00	209389	ibid,				
		209390	HR-9 STANDARD				
111.00	112.25	209391	Bleached qtz/Ak zone, nil Py				
112.25	114.00	209392	Grey, fine-grained tuff, microfracturing, nil Py				
114.00	115.00	209393	ibid				

<b>HOLE NUMBER:</b>	<b>DD97-07</b>		<b>CLAIM NUMBER:</b>	<b>1207606</b>
<b>GRID LOCATION:</b>	<b>89+00E</b>	<b>298+00N</b>	<b>ELEVATION (A.S.L.):</b>	<b>350.5m</b>
<b>SURVEY LOCATION (UTM):</b>	<b>508800E</b>	<b>5303830N</b>	<b>LENGTH:</b>	<b>85.00m</b>
<b>CORE SIZE:</b>	<b>BQ</b>		<b>DIP:</b>	<b>-50</b>
<b>BEARING:</b>	<b>360</b>		<b>FINISH:</b>	<b>21 OCT 1997</b>
<b>START:</b>	<b>20 OCT 1997</b>		<b>CASING:</b>	<b>Pulled</b>
<b>CORE STORED AT:</b>	<b>KL Complex</b>		<b>LOG COMPLETED:</b>	<b>3 Dec 97</b>
<b>DRILLING CONTRACTOR:</b>	<b>H&amp;S</b>			
<b>LOGGED BY:</b>	<b>CJ Baker</b>			
<b>SIGNED:</b>				

**TEST TYPE: Acid**

<b>Depth</b>	<b>Dip</b>	<b>Azimuth</b>
<b>(m)</b>	<b>(degrees)</b>	<b>(degrees)</b>

LITHOLOGY				ALTERATION								MINERALIZATION					VEINING		STRUCTURE		
FROM	TO	ROCK CODE	DESCRIPTION	bio	cal	cb	chl	gr	ser	sil	as	cp	mt	po	py	Type	%	Depth	Type	Core Angle	
0.00	2.00	O/B	OVERBURDEN																		
2.00	4.69	FI	QTZ/FELDSPAR PORPHYRY, pink, c.g., high felsic index, 5% qtz/cb veining, fuchsite? blebs.																		
4.69	56.38	Mv	MAFIC VOLCANIC 4.69-7.90m: dark green mafic flow?, strong foliation with 40% carbonate veinlets, early sub-parallel to CA @ 60 degrees, late pygmatic veinlets @ 10-15 degrees to CA, minor leucoxene sub-parallel to foliation, nil Pyrite. 7.90-44.00m: Qtz/Ank/Ser (mafic precursor), pale green-grey, bleached zone with local brecciation, microfracturing, increasing foliation down section, leucoxene on fracture surfaces, tr. Py throughout more abundant locally, 2% qtz/cb veining. 44.00-50.38m: dark green, medium grained mafic tuff?, 2% qtz/cb veinlets, moderate foliation @ 55 degrees to CA, nil Pyrite. 50.38-56.38m: dark green agglomerate, leucoxene locally, tr. fuchsite @ 51.63m, bleached fragments																		
56.38	56.90	Srd	FRAGMENTAL, komatiitic, spinifex-textured fragments, pale grey, carbonate-rich.																		
56.90	58.30	Mv	MAFIC VOLCANIC, dark green agglomerate?, as per 50.38-56.38m, 5mm-wide shearing at contact downsection.																		
58.30	61.74	Srd	FRAGMENTAL, pale green spinifex-textured fragments to 5cms, intense carbonatisation, increasing foliation and talc down section.																		
61.74	62.56	Sd	DOLOMITE, pale grey, section 80% qtz/cb veining.																		
62.56	71.45	Srd	FRAGMENTAL, as per 58.30-61.74m, increasing foliation and talc, dark grey near down section contact																		
71.45	79.09	Md	MAFIC DIKE, strongly magnetic, fine-grained at margins,																		

LITHOLOGY				ALTERATION							MINERALIZATION					VEINING		STRUCTURE		
FROM	TO	ROCK CODE	DESCRIPTION	bio	cal	cb	chl	gr	ser	sil	as	cp	mt	po	py	Type	%	Depth	Type	Core Angle

medium-grained in central section, tr. carbonate  
veining.

79.09	79.50	Srd	FRAGMENTAL, dark grey, talc-rich sections.
79.50	82.24	Md	MAFIC DIKE, as per 71.45-79.09m, 2% carbonate veins @ 85 degrees to CA.
82.24	85.00	ft	FAULT ZONE, strongly weathered, talcose, fragmental? very strong foliation, poor core recovery, nil Pyrite.
E.O.H.			

***Appendix VII: Diamond Drilling Assay Certificates***



# Swastika Laboratories

A Division of TSL/Assayers Inc.

Established 1928

Assaying - Consulting - Representation

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## Geochemical Analysis Certificate

7W-3007-RG1

Company: **WMC INTERNATIONAL LTD**

Date: JUL-30-97

Project: **4057-G10**

Attn: **T. Goodwin / C. Baker**

We hereby certify the following Geochemical Analysis of 73 Core samples submitted JUL-25-97 by .

Sample Number	Au Au Check	Ag	As	Cu	Mo	Ni	Pb	Sb	Zn
	PPB	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM
CR209101	Nil	Nil	0.1	<5	101	1	16	1	<1
CR209102	Nil	-	0.1	<5	105	1	18	1	<1
CR209103	Nil	-	0.1	8	86	1	26	16	<1
CR209104	3	-	0.1	<5	77	1	29	1	<1
CR209105	2	-	0.1	<5	90	1	23	1	<1
CR209106	2	-	0.1	<5	87	1	22	1	<1
CR209107	Nil	-	0.1	<5	89	1	23	1	<1
CR209108	Nil	-	0.1	<5	85	1	21	1	<1
CR209109	2	-	0.1	<5	42	2	15	1	<1
CR209110	Nil	-	0.1	<5	57	1	8	1	<1
CR209111	3	-	0.1	<5	62	1	8	1	<1
CR209112	Nil	2	0.1	<5	76	1	10	1	<1
CR209113	74	-	0.1	<5	47	1	6	1	<1
CR209114	Nil	-	0.1	<5	78	1	11	1	<1
CR209115	10	-	0.1	<5	101	1	17	1	<1
CR209116	14	-	0.1	<5	106	1	23	1	<1
CR209117	7	-	0.1	<5	68	1	23	1	<1
CR209118	Nil	-	0.1	<5	114	1	25	1	<1
CR209119	341	399	0.1	<5	99	2	15	1	<1
CR209120 control	1826	-	0.3	421	10	19	2	52	51
CR209121	55	-	0.1	<5	93	2	24	1	<1
CR209122	122	106	0.1	<5	96	3	21	1	<1
CR209123	9	-	0.1	36	20	1	605	1	<1
CR209124	14	-	0.1	27	36	1	739	1	<1
CR209125	15	-	0.1	49	42	1	784	1	<1
CR209126	10	-	0.1	33	49	1	579	1	<1
CR209127	10	-	0.1	27	36	1	588	1	<1
CR209128	Nil	-	0.1	<5	6	1	1390	1	<1
CR209129	Nil	-	0.1	<5	11	1	1700	1	<1
CR209130	Nil	-	0.1	<5	17	1	1390	1	<1

One assay ton portion used for gold.

Certified by



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## Geochemical Analysis Certificate

7W-3007-RG1

Company: **WMC INTERNATIONAL LTD**

Date: JUL-30-97

Project: 4057-G10

Attn: T. Goodwin / C. Baker

We hereby certify the following Geochemical Analysis of 73 Core samples submitted JUL-25-97 by .

Sample Number	Au Au Check	Ag	As	Cu	Mo	Ni	Pb	Sb	Zn
	PPB	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM
CR209131	Nil	-	0.1	<5	5	1	1950	1	<1
CR209132	3	-	0.1	<5	4	1	2160	1	<1
CR209133	5	-	0.1	<5	6	1	1390	1	<1
CR209134	5	-	0.1	<5	4	1	527	1	<1
CR209135	Nil	-	0.1	36	30	1	625	1	<1
CR209136	2	-	0.1	22	18	1	762	1	<1
CR209137	Nil	-	0.1	26	21	1	524	1	<1
CR209138	Nil	-	0.1	17	27	1	473	1	<1
CR209139	3	-	0.1	16	34	1	437	1	<1
CR209140 control	1889	-	0.3	421	10	19	3	50	50
CR209141	Nil	-	0.1	22	29	1	449	1	<1
CR209142	Nil	-	0.1	13	33	1	521	1	<1
CR209143	Nil	-	0.1	<5	69	1	511	1	<1
CR209144	3	10	0.1	<5	102	1	81	1	<1
CR209145	12	-	0.1	<5	22	1	681	1	<1
CR209146	2	-	0.1	10	27	1	511	1	<1
CR209147	10	-	0.1	<5	30	1	477	1	<1
CR209148	5	-	0.1	7	21	1	509	1	<1
CR209149	2	-	0.1	<5	64	1	192	1	<1
CR209150	Nil	-	0.1	<5	66	1	118	1	<1
CR209151	2	-	0.1	<5	27	1	435	1	<1
CR209152	7	-	0.1	<5	65	1	357	1	<1
CR209153	2	-	0.1	<5	61	1	323	1	<1
CR209154	Nil	-	0.1	<5	51	1	394	1	<1
CR209155	5	-	0.1	<5	77	1	720	1	<1
CR209156	2	-	0.1	<5	70	1	199	1	<1
CR209157	Nil	-	0.1	<5	263	1	65	1	<1
CR209158	5	-	0.1	<5	243	1	69	1	<1
CR209159	9	9	0.2	<5	907	1	84	1	<1
CR209160 control	1908	-	0.4	424	10	18	2	51	50

One assay ton portion used for gold.

Certified by





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## Geochemical Analysis Certificate

7W-3007-RG1

Company: **WMC INTERNATIONAL LTD**

Date: JUL-30-97

Project: **4057-G10**

Attn: **T. Goodwin / C. Baker**

We hereby certify the following Geochemical Analysis of 73 Core samples submitted JUL-25-97 by .

Sample Number	Au Au Check PPB PPB	Ag PPM	As PPM	Cu PPM	Mo PPM	Ni PPM	Pb PPM	Sb PPM	Zn PPM
CR209161	2 -	0.1	<5	92	1	75	1	<1	60
CR209162	2 -	0.1	<5	66	1	434	1	<1	59
CR209163	Nil -	0.1	<5	134	1	620	1	<1	460
CR209164	3 -	0.1	<5	35	1	590	4	<1	29
CR209165	2 -	0.1	14	35	1	857	1	<1	48
CR209166	7 -	0.1	40	37	1	658	1	<1	43
CR209167	2 -	0.1	55	51	1	431	1	<1	177
CR209168	5 -	0.1	10	37	1	36	1	<1	37
CR209169	Nil -	0.1	9	10	1	30	3	<1	117
CR209170	10 -	0.2	40	30	1	52	6	<1	100
CR209171	9 12	0.2	33	31	2	45	8	<1	132
CR209172	3 -	0.1	13	29	1	30	2	<1	294
CR209173	3 -	0.1	7	9	1	22	2	<1	58

One assay ton portion used for gold.

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## Geochemical Analysis Certificate

7W-3032-RG1

Company: **WMC INTERNATIONAL LTD**

Date: JUL-31-97

Project: **4057-G10**

Attn: **C. Baker / T. Goodwin**

*We hereby certify the following Geochemical Analysis of 54 Core samples submitted JUL-28-97 by .*

Sample Number	Au	Au Check	Au 2nd	Ag	As	Cu	Mo	Ni	Pb	Sb	Zn
	PPB	PPB	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
CR209174	89	-	-	0.1	42	55	1	44	3	<1	40
CR209175	703	615	-	0.1	133	43	1	53	39	<1	57
CR209176	91	-	-	0.1	45	52	1	44	15	2	34
CR209177	338	-	-	0.1	42	74	1	52	1	<1	39
CR209178	533	-	-	0.1	26	56	1	46	1	4	33
CR209179	537	-	-	0.1	32	53	1	48	1	<1	31
CR209180 Control	1644	-	-	0.3	423	11	18	2	57	49	9
CR209181	2095	1817	2400	0.1	22	52	1	39	1	1	27
CR209182	530	-	-	0.1	54	69	2	250	1	19	63
CR209183	7	-	-	0.1	77	45	1	725	1	16	55
CR209184	3	-	-	0.1	26	25	1	284	1	3	31
CR209185	22	-	-	0.1	44	53	1	684	1	<1	54
CR209186	Nil	-	-	0.1	54	61	1	616	1	<1	51
CR209187	2	-	-	0.1	118	36	1	600	1	<1	35
CR209188	2	-	-	0.1	336	56	1	831	1	<1	67
CR209189	7	-	-	0.1	328	53	1	842	1	<1	61
CR209190	3	-	-	0.1	210	41	1	664	1	<1	50
CR209191	7	-	-	0.1	129	58	1	745	1	<1	53
CR209192	9	7	-	0.1	18	44	1	142	1	<1	89
CR209193	5	-	-	0.1	73	51	1	397	1	<1	65
CR209194	7	-	-	0.1	125	48	1	782	1	<1	58
CR209195	3	-	-	0.1	16	10	1	910	1	<1	50
CR209196	Nil	-	-	0.1	26	41	1	574	1	<1	48
CR209197	Nil	-	-	0.1	20	28	1	583	1	<1	47
CR209198	22	-	-	0.1	17	50	1	589	1	<1	53
CR209199	5	-	-	0.1	24	37	1	421	1	4	45
CR209200	2	-	-	0.1	28	14	1	485	1	3	38
CR209201	7	-	-	0.1	60	29	1	415	1	5	37
CR209202	2	-	-	0.1	53	17	1	565	1	7	35
CR209203	3	3	-	0.1	16	35	1	154	1	4	63

One assay ton portion used for gold.

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## Geochemical Analysis Certificate

7W-3032-RG1

Company: **WMC INTERNATIONAL LTD**

Date: JUL-31-97

Project: **4057-G10**

Attn: **C. Baker / T. Goodwin**

We hereby certify the following Geochemical Analysis of 54 Core samples submitted JUL-28-97 by .

Sample	Au	Au Check	Au 2nd	Ag	As	Cu	Mo	Ni	Pb	Sb	Zn
Number	PPB	PPB	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
CR209204	3	-	-	0.2	9	15	4	76	1	3	60
CR209205	2	2	-	0.1	10	50	1	135	1	4	76
CR209206	2	-	-	0.1	<5	50	1	121	1	7	72
CR209207	2	-	-	0.1	10	67	1	109	7	3	73
CR209208	3	-	-	0.1	17	12	1	774	1	5	32
CR209209	3	-	-	0.2	<5	35	1	74	1	<1	68
CR209210	5	-	-	0.1	<5	38	1	67	1	<1	65
CR209211	3	-	-	0.1	<5	62	1	70	1	<1	71
CR209212	2	-	-	0.1	<5	55	1	83	1	<1	46
CR209213	5	-	-	0.1	<5	88	1	73	1	<1	69
CR209214	3	-	-	0.1	<5	74	1	58	1	<1	74
CR209215	3	-	-	0.1	<5	30	1	45	1	<1	57
CR209216	5	-	-	0.2	<5	94	1	88	1	<1	85
CR209217	7	-	-	0.1	<5	57	1	219	1	<1	118
CR209218	Nil	-	-	0.2	<5	21	1	125	1	5	22
CR209219	5	-	-	0.1	55	54	1	538	1	4	52
CR209220 Control	1738	-	-	0.4	421	11	19	2	57	49	11
CR209221	17	-	-	0.1	91	62	1	723	1	59	42
CR209222	2	-	-	0.1	65	29	1	392	1	5	53
CR209223	Nil	-	-	0.1	59	17	1	55	3	10	39
CR209224	22	22	-	0.1	130	41	1	54	1	<1	30
CR209225	2	-	-	0.1	8	9	1	27	1	<1	28
CR209226	Nil	-	-	0.1	12	19	1	60	1	<1	57
CR209227	51	-	-	0.1	206	9	1	187	1	14	9

One assay ton portion used for gold.

Certified by



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## Geochemical Analysis Certificate

7W-3149-RG1

Company: **WMC INTERNATIONAL LIMITED**

Date: AUG-08-97

Project: 4057-G10

Attn: C. Baker/T. Goodwin

*We hereby certify* the following Geochemical Analysis of 12 Core samples submitted AUG-05-97 by .

Sample Number	Au PPB	Au Check PPB	Ag PPM	As PPM	Cu PPM	Mo PPM	Ni PPM	Pb PPM	Sb PPM	Zn PPM
CR209228	9	-	0.1	16	23	1	49	5	4	102
CR209229	10	-	0.1	<5	20	1	29	4	2	29
CR209230	5	-	0.2	8	14	1	31	14	1	27
CR209231	12	-	0.1	29	89	1	40	5	1	193
CR209232	10	10	0.2	49	303	3	51	9	4	270
CR209233	9	-	0.1	9	6	1	13	4	2	36
CR209234	5	-	0.1	35	19	1	31	6	5	42
CR209235	2	-	0.1	64	12	1	43	4	3	264
CR209236	2	3	0.1	62	8	1	44	7	2	39
CR209237	5	-	0.1	28	13	1	27	7	1	81
CR209238	24	-	0.1	49	11	1	31	7	4	44
CR209239 Control	1817	-	0.4	407	9	19	1	50	49	8

One assay ton portion used.

Certified by



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## Geochemical Analysis Certificate

7W-3175-RG1

Company: **WMC INTERNATIONAL LTD**

Date: AUG-12-97

Project: **4057-G10**

Attn: **C. Baker / T. Goodwin**

*We hereby certify* the following Geochemical Analysis of 16 Core samples submitted AUG-06-97 by .

Sample Number	Au PPB	Au Check PPB	Ag PPM	As PPM	Cu PPM	Mo PPM	Ni PPM	Pb PPM	Sb PPM	Zn PPM
CR209240	24	22	0.1	73	94	3	751	5	<1	140
CR209241	10	-	0.1	23	12	1	164	13	<1	61
CR209242	12	-	0.1	22	39	2	108	45	<1	75
CR209243	17	-	0.1	13	57	1	78	1	<1	67
CR209244	Nil	-	0.1	9	60	2	109	2	<1	72
CR209245	3	-	0.1	19	123	2	93	1	<1	64
CR209246	7	-	0.1	15	52	3	71	1	<1	57
CR209247	135	-	0.1	169	57	3	97	2	<1	46
CR209248	9	-	0.1	25	35	1	61	1	<1	40
CR209249	14	-	0.1	46	40	2	69	1	<1	29
CR209250	3	5	0.1	16	35	3	107	13	<1	61
CR209251	2	-	0.1	10	7	1	26	1	<1	12
CR209252	7	-	0.1	16	40	3	98	3	<1	89
CR209253	7	-	0.1	7	11	1	223	8	<1	165
CR209254	17	-	0.1	60	55	3	91	2	<1	69
CR209255 control	1954	-	0.6	403	10	18	1	49	40	8

One assay ton portion used for gold.

Certified by



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## Geochemical Analysis Certificate

7W-3205-RG1

Company: **WMC INTERNATIONAL LIMITED**

Date: AUG-14-97

Project: 4057

Attn: T. Goodwin/C. Baker

We hereby certify the following Geochemical Analysis of 68 Core samples submitted AUG-08-97 by .

Sample Number	Au PPB	Au Check PPB	Ag PPM	As PPM	Cu PPM	Mo PPM	Ni PPM	Pb PPM	Sb PPM	Zn PPM
CR209256	14	-	0.1	<5	72	1	19	5	<1	156
CR209257	5	-	0.1	<5	59	1	15	1	<1	103
CR209258	10	-	0.1	<5	66	2	25	7	4	100
CR209259	Nil	-	0.1	<5	9	1	8	8	2	30
CR209260 Control	1869	-	0.4	391	9	17	1	51	45	7
CR209261	Nil	-	0.1	<5	6	2	13	6	4	21
CR209262	3	-	0.1	<5	6	1	13	6	<1	14
CR209263	5	2	0.1	<5	6	1	18	8	2	19
CR209264	7	-	0.1	<5	58	2	20	5	2	45
CR209265	9	-	0.1	<5	36	1	40	1	<1	43
CR209266	7	-	0.1	<5	49	1	36	1	3	50
CR209267	17	-	0.1	<5	52	1	38	1	<1	52
CR209268	15	-	0.1	<5	76	1	50	1	4	56
CR209269	7	-	0.1	<5	53	1	39	1	3	55
CR209270	101	98	0.1	<5	42	1	38	1	2	55
CR209271	19	-	0.1	<5	46	1	40	1	2	54
CR209272	5	-	0.1	<5	41	1	47	1	5	49
CR209273	7	-	0.1	<5	42	2	34	1	3	48
CR209274	7	-	0.1	<5	47	1	51	1	3	57
CR209275	15	-	0.1	<5	55	1	44	1	4	50
CR209276	14	-	0.1	19	54	1	44	1	5	51
CR209277	10	-	0.1	13	41	1	37	1	4	50
CR209278	10	-	0.1	15	106	1	44	1	5	49
CR209279	9	-	0.1	15	53	1	42	1	6	46
CR209280 Control	1887	-	0.4	390	9	17	1	50	45	9
CR209281	12	-	0.1	20	57	1	41	1	3	47
CR209282	9	-	0.1	20	39	1	40	1	5	45
CR209283	15	-	0.1	39	105	1	44	1	2	99
CR209284	19	-	0.1	29	50	1	44	1	4	46
CR209285	14	-	0.1	34	64	1	42	1	<1	58

One assay ton portion used.

Certified by



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## Geochemical Analysis Certificate

7W-3205-RG1

Company: **WMC INTERNATIONAL LIMITED**

Date: AUG-14-97

Project: 4057

Attn: T.Goodwin/C.Baker

We hereby certify the following Geochemical Analysis of 68 Core samples submitted AUG-08-97 by .

Sample Number	Au Au Check	Ag	As	Cu	Mo	Ni	Pb	Sb	Zn
	PPB	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM
CR209286	17	-	0.1	19	38	1	40	1	47
CR209287	146	142	0.1	13	87	2	38	1	69
CR209288	15	-	0.1	9	48	1	898	1	39
CR209289	10	-	0.1	10	67	1	659	3	23
CR209290	3	-	0.1	32	48	1	361	1	25
CR209291	9	-	0.1	22	32	1	557	1	28
CR209292	24	-	0.1	45	53	1	438	1	25
CR209293	12	-	0.1	37	31	1	449	1	22
CR209294	3	Nil	0.1	42	37	1	539	1	24
CR209295	2	-	0.1	44	46	1	415	1	24
CR209296	Nil	-	0.1	65	50	1	554	1	25
CR209297	Nil	-	0.4	53	38	2	506	1	34
CR209298	Nil	-	0.1	40	39	1	415	1	20
CR209299	14	-	0.1	61	22	1	299	1	18
CR209300 Control	1800	-	0.4	382	9	17	2	50	46
CR209301	Nil	-	0.1	69	19	1	352	1	18
CR209302	2	-	0.1	55	41	1	486	1	37
CR209303	Nil	-	0.1	71	17	1	410	1	28
CR209304	Nil	-	0.1	102	20	1	589	1	36
CR209305	3	-	0.1	21	76	4	149	1	24
CR209306	5	-	0.1	22	102	4	56	1	22
CR209307	Nil	-	0.1	14	55	3	47	1	28
CR209308	Nil	-	0.1	31	19	3	209	1	30
CR209309	9	-	0.1	26	41	2	103	1	44
CR209310	Nil	Nil	0.1	24	7	1	221	1	48
CR209311	Nil	-	0.1	72	22	1	392	1	14
CR209312	Nil	-	0.1	43	23	1	701	1	19
CR209313	Nil	-	0.1	17	53	1	289	1	33
CR209314	Nil	-	0.1	17	45	1	302	1	39
CR209315	2	-	0.1	13	39	1	208	1	100

One assay ton portion used.

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## Geochemical Analysis Certificate

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7W-3205-RG1

Company: **WMC INTERNATIONAL LIMITED**

Date: AUG-14-97

Project: 4057

Attn: T. Goodwin/C. Baker

We hereby certify the following Geochemical Analysis of 68 Core samples submitted AUG-08-97 by .

Sample Number	Au Au Check	Ag	As	Cu	Mo	Ni	Pb	Sb	Zn
	PPB	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM
CR209316	Nil	-	0.1	40	100	1	617	1	53
CR209317	Nil	-	0.1	11	48	1	363	1	35
CR209318	3	-	0.1	16	38	1	548	1	86
CR209319	2	-	0.1	17	33	1	369	1	62
CR209320 Control	1850	-	0.4	393	10	16	1	49	7
CR209321	2	-	0.1	18	22	1	184	1	193
CR209322	3	10	0.1	7	4	2	43	1	26
CR209323	14	-	0.1	48	7	2	183	1	112

One assay ton portion used.

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## Geochemical Analysis Certificate

7W-4153-RG1

Company: **WMC INTERNATIONAL LIMITED**

Date: OCT-24-97

Project: 4057-G10

Attn: C. Baker/T. Goodwin

We hereby certify the following Geochemical Analysis of 51 Core samples submitted OCT-22-97 by .

Sample Number	Au PPB	Au Check PPB	Ag PPM	As PPM	Cu PPM	Mo PPM	Ni PPM	Pb PPM	Sb PPM	Zn PPM
CR209343	3	2	0.1	<5	14	1	9	1	<1	28
CR209344	2	-	0.1	<5	18	1	11	1	<1	27
CR209345	Nil	-	0.1	<5	11	1	10	1	<1	22
CR209346	Nil	-	0.1	<5	115	1	35	1	<1	68
CR209347	12	-	0.1	<5	102	1	48	1	<1	86
CR209348	14	-	0.1	<5	125	1	53	1	<1	78
CR209349	26	34	0.1	<5	130	1	47	1	<1	85
CR209350 Control	1680	-	0.4	415	10	17	1	52	43	6
CR209351	27	-	0.1	<5	57	1	62	1	<1	65
CR209352	2	-	0.1	<5	28	1	60	1	<1	67
CR209353	10	-	0.1	<5	52	1	61	1	<1	79
CR209354	7	-	0.1	<5	54	1	53	1	<1	77
CR209355	38	-	0.1	<5	41	1	58	1	<1	70
CR209356	7	-	0.1	<5	37	1	56	1	<1	74
CR209357	5	-	0.1	<5	72	1	59	1	<1	75
CR209358	2	-	0.1	<5	21	1	47	1	<1	69
CR209359	3	2	0.1	<5	11	1	54	1	<1	76
CR209360	2	-	0.1	<5	27	1	56	1	<1	90
CR209361	2	-	0.1	<5	11	1	50	1	<1	83
CR209362	17	-	0.1	<5	79	1	53	1	<1	55
CR209363	12	-	0.1	<5	32	1	68	1	<1	54
CR209364	2	-	0.1	<5	35	1	55	1	<1	55
CR209365	2	-	0.1	<5	73	1	47	1	<1	61
CR209366	2	-	0.1	<5	32	1	68	1	<1	57
CR209367	3	-	0.1	<5	65	1	51	1	<1	71
CR209368	2	-	0.1	<5	87	1	41	1	<1	81
CR209369	82	89	0.1	<5	88	1	47	1	<1	82
CR209370 Control	1646	-	0.4	403	10	18	1	51	45	7
CR209371	2	-	0.1	<5	34	1	48	1	<1	67
CR209372	3	-	0.1	<5	12	1	47	1	<1	88

One assay ton portion used.

Certified by



# Swastika Laboratories

A Division of TSL/Assayers Inc.

Assaying - Consulting - Representation

Page 2 of 2

Established 1928

## Geochemical Analysis Certificate

7W-4153-RG1

Company: **WMC INTERNATIONAL LIMITED**

Date: OCT-24-97

Project: **4057-G10**

Attn: **C. Baker/T. Goodwin**

We hereby certify the following Geochemical Analysis of 51 Core samples submitted OCT-22-97 by .

Sample Number	Au	Au Check	Ag	As	Cu	Mo	Ni	Pb	Sb	Zn
	PPB	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
CR209373	14	3	0.1	<5	14	1	27	1	<1	73
CR209374	3	-	0.1	<5	11	1	31	1	<1	87
CR209375	17	-	0.1	<5	53	1	30	1	<1	87
CR209376	5	-	0.1	<5	14	1	35	1	<1	95
CR209377	3	-	0.1	<5	13	1	42	1	<1	96
CR209378	5	-	0.1	<5	42	1	44	1	<1	64
CR209379	7	-	0.1	<5	42	1	47	1	<1	52
CR209380	5	-	0.1	<5	8	1	48	1	<1	58
CR209381	14	-	0.1	<5	111	3	53	1	<1	55
CR209382	2	-	0.1	<5	29	1	44	1	<1	57
CR209383	41	-	0.1	<5	43	2	54	1	<1	56
CR209384	3	-	0.1	11	81	1	59	1	<1	58
CR209385	2	-	0.1	<5	22	1	39	1	<1	57
CR209386	60	46	0.1	<5	73	2	51	1	<1	58
CR209387	57	-	0.1	<5	42	1	57	1	<1	58
CR209388	34	-	0.1	33	57	1	61	1	<1	61
CR209389	12	-	0.1	53	47	1	67	1	<1	61
CR209390 Control	1817	-	0.4	407	9	17	1	54	47	6
CR209391	33	-	0.1	25	63	1	54	1	<1	56
CR209392	14	10	0.1	53	130	1	54	1	<1	82
CR209393	36	-	0.1	80	117	1	65	1	<1	86

One assay ton portion used.

Certified by



# Swastika Laboratories

A Division of TSL/Assayers Inc.

Established 1928

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## Geochemical Analysis Certificate

7W-2570-RG1

Company: **WMC INTERNATIONAL LTD**

Date: JUL-01-97

Project: **4053**

Attn: **T. Goodwin/C. Baker**

We hereby certify the following Geochemical Analysis of 16 Core & control samples submitted JUN-26-97 by .

Sample Number	Au Au Check	Ag	As	Co	Cu	Mo	Ni	Pb	Sb	Zn
	PPB	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
CR104458	10	-	0.1	10	19	34	1	18	14	34
CR104459	206	225	0.1	36	28	105	1	48	1	98
CR104460	3	-	0.1	<5	17	9	1	20	1	21
CR104461	Nil	-	0.1	<5	20	8	1	27	12	45
CR104462	2	-	0.1	15	45	76	1	626	1	172
CR104463	5	-	0.1	34	50	82	1	478	1	93
CR104464	7	-	0.1	<5	34	18	1	366	1	32
CR104465	9	-	0.1	<5	17	20	5	26	1	22
CR104466	195	-	0.8	13	9	29	129	24	9	58
CR104467	2	-	0.1	510	62	5	1	1060	1	68
CR104468	2	-	0.1	713	61	7	1	1410	1	54
CR104469	19	10	0.1	<5	25	48	1	21	1	107
CR104470	333	382	0.2	12	13	209	2	32	1	64
CR104471	2	-	0.1	41	58	168	1	711	1	70
CR104472	Nil	-	0.1	<5	9	5	1	37	1	11
CR104473 control	1785	-	0.4	421	1	10	16	5	52	7

One assay ton portion used.

Certified by

***Appendix VIII: Whole Rock Analysis Assays***

## WMC INTERNATIONAL

ATTN: C. Baker/T. Goodwin

PROJ: 4057

SAMPLE: CORE

7W-3337-RG1

## TSL ASSAYERS Laboratories

1270 FEWSTER DRIVE, UNIT 3, MISSISSAUGA ONTARIO L4W 1A4

PHONE #: (905) 602-8236 FAX #: (905) 206-0513

REPORT No. : M9187

Page No. : 1 of 1

File No. : AU26RA.DW

Date : AUG-28-1997

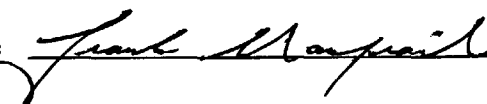
## I.C.A.P. TOTAL OXIDE ANALYSIS

Lithium MetaBorate Fusion

AUG 12 1998

SAMPLE #	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	TiO2	MnO	P2O5	Ba	Sr	Zr	Y	Sc	Nb	Be	Ni	Cr	Cu	V	Co	Zn	LOI	TOTAL
	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
CR209327	49.60	13.04	19.72	2.97	4.13	4.53	0.30	2.06	0.21	0.20	150	100	130	44	52	< 30	3	15	145	215	495	55	150	2.88	99.63
CR209328	35.50	7.41	9.66	10.06	15.59	0.20	0.04	0.45	0.18	0.02	30	150	30	6	27	< 30	< 1	640	2010	65	150	60	15	20.78	99.88
CR209329	42.86	3.55	6.80	6.88	24.27	0.04	0.04	0.19	0.14	<0.02	20	100	20	4	14	< 30	< 1	1925	1515	20	55	100	55	14.65	99.40
CR209330	39.09	4.43	8.14	11.19	20.77	0.05	0.02	0.22	0.15	<0.02	20	160	< 10	4	17	< 30	< 1	1305	1700	30	90	75	40	15.52	99.61
CR209332	43.76	3.33	7.58	7.11	21.20	0.06	0.06	0.18	0.12	<0.02	30	110	20	4	13	< 30	< 1	1210	1400	30	60	70	25	16.28	99.70
CR209333	40.53	1.77	5.31	9.16	25.00	0.05	<0.02	0.14	0.12	<0.02	70	240	30	< 2	7	< 30	< 1	2075	925	55	30	75	15	17.50	99.60
CR209335	30.82	6.01	8.19	13.70	16.30	0.03	0.08	0.28	0.16	<0.02	20	280	20	6	20	< 30	< 1	1200	2010	20	105	65	25	24.17	99.76
CR209341	39.98	13.75	14.10	1.95	17.84	0.24	<0.02	1.13	0.05	0.14	20	50	90	28	43	< 30	2	285	470	20	300	60	90	10.52	99.71

SIGNED :



***Appendix IX: Petrographic Descriptions of Thin Sections***

## Petrographic description of thin section

Sample number      CR 209324 (DD97/05 94.15 to 94.35m)

### THIN SECTION

#### Minerals (with estimated percentages):

Calcite	50	Quartz	35
Plagioclase	1	clay minerals	3
opaques	2	Sericite/Musc.	5
Chlorite	2		

#### Description:

Calcite is present throughout the sample either in form of medium to fine grained masses or as thin veinlets parallel to schistosity. Quartz occurs in deformed medium sized grains with undulose extinction and in elongated, sheared masses in pressure shadows of larger rock fragments. Finer grained quartz is also present in the groundmass.

Sericite, muscovite and clay minerals occur in very thin veinlets of fine grained particles parallel to schistosity, associated with fine grained interstitial quartz and calcite.

Varying amounts of chlorite are present throughout, especially in some of altered rock fragments.

Fine grained opaques are present throughout, but are especially abundant in the fine grained groundmass and in some of the rock fragments.

Minor, heavily altered plagioclase was found in one of the rock fragments.

Rock fragments constitute 30-50% of the sample (masked by alteration).

Petrographic description of thin section

Sample number      CR 209325    (DD97/05 116.15 to 116.32m)

THIN SECTION

Minerals (with estimated percentages):

Antigorite/Serpentine	70
Olivine	10
Talc	7
opaques	5

Description:

Serpentine is found in two different forms. Antigorite (50%) occurs as elongated, pale green to colourless flakes with weak birefringence partly masked by its green colour. The remainder of serpentine is found in massive, fine to very fine grained, pale green, very weakly birefringent aggregates.

Olivine occurs in small crystals surrounded by massive antigorite. Typical olivine textures (fracturing etc.) visible in unaltered (and to a lesser degree in altered) grains. Fresh olivine is characterized by strong birefringence.

Talc is found in foliated masses completely replacing two large (3-8mm long), subhedral, elongated crystals.

Subhedral opaque grains, ranging in size up to 1mm, are randomly scattered throughout the sample, but are absent in talc-rich zones.



Petrographic description of thin section

Sample number CR 209326 (DD97/01 5.29 to 5.44m)

THIN SECTION

Minerals (with estimated percentages):

Quartz	50	Chlorite	15
Plagioclase	15	Sericite	2
Calcite	15		
opaques	2		

Description:

Quartz is found either in fine grained, irregularly shaped masses (50-60%), in medium size angular to subangular grains (10-20%) with undulose extinction and minor fracturing, or in rock fragments as fine grained grains associated with plagioclase. Calcite is present in the form of anhedral blebs associated with plagioclase, and as small anhedral blebs (30%) present throughout. There is noted absence of calcite and quartz-calcite veinlets. Plagioclase shows similar habit as medium grained quartz grains, but is strongly altered to calcite and, to much lesser extent, sericite. Sericite is restricted to the vicinity of plagioclase grains. It is also present as very small inclusions within individual plagioclase grains. Chlorite is present in late veinlets and is characterized by its very dark green to dark blue pleochroism. Rock fragments, ranging in size from 1 to 3mm, are angular to subangular, slightly elongated and constitute 30-55% of the sample, with exact percentage difficult to determine due to strong alteration.

Petrographic description of thin section

Sample number      CR 209331    (DD97/02 10.67 to 10.77m)

THIN SECTION

Minerals (with estimated percentages):

Calcite	40	Chlorite	<1
Quartz	30		
Sericite	25		
opaques	1		

Description:      Calcite is found in fine to (rare) medium grained particles. Dusty, fine grained calcite is predominantly found in the groundmass, often associated with sericite. Coarser grained calcite occurs in late, thin (~1-2mm) veinlets, or is associated with fractured quartz grains. Calcite veinlets crosscut quartz veinlets indicating that the latter predate the former veinlets.

Sericite is present throughout, but large anhedral masses are rare. It is mostly found in thin veinlets.

Quartz occurs in fine to very fine grained groundmass with an occasional medium grained fragment (fractured and/or with undulose extinction). Some quartz is also found in pressure shadows of opaque grains. 10% of total quartz is found in thin (<1mm) veinlets.

Fine to medium grained, euhedral to subhedral, often fractured opaque grains are randomly distributed throughout.

The percentage of rock fragments is difficult to determine due to strong alteration masking the original texture.

## Petrographic description of thin section

Sample number      CR 209334 (DD97/02 81.38 to 81.52m)

### THIN SECTION

#### Minerals (with estimated percentages):

Calcite	40	Chlorite	5
Quartz	25	Epidote	tr
Plagioclase	15	?clay min.	5
Sericite	3		

#### Description:

Calcite occurs in veins (1-3mm thick) with comb-like texture in outer portions of veins. It is also found in anhedral to subhedral crystals ranging in size from less than 1mm to 3mm.

Quartz is usually found in fine to very fine grains in the groundmass, or as aggregates of fine to medium size grains. Larger grains show usual wavy extinction.

Plagioclase is strongly to very strongly altered with very faint twinning. It is usually present as isolated "eyes" in blebs of massive calcite.

Sericite and trace levels of muscovite (1-2 flakes) are not very abundant and appear to be associated with altered plagioclase.

Chlorite and clay minerals occur predominantly in small veinlets or as isolated flakes or as small very fine grained blebs (clay minerals).

Petrographic description of thin section

Sample number      CR 209336    (DD97/03 49.79 to 49.95m)

THIN SECTION

Minerals (with estimated percentages):

Plagioclase	30	Calcite	15
Quartz	40	Chlorite	1
Sericite	15		
opaques	<1		

**Description:**      Quartz is found in subangular, medium (1-1.5mm) sized grains and as anhedral blebs of fine to very fine grains. Larger grains are often fractured with undulose extinction common.  
Plagioclase occurs in <1-1.5mm angular, subhedral to anhedral grains, extensively altered to sericite and calcite. Some (<10%) grains fractured. Twinning is often concealed by alteration. Occasional grains (<5%) show possible overgrowths (untwinned). Calcite and sericite are present throughout and are usually associated with one another. They are predominantly present as inclusions in plagioclase (giving it "grungy" look), as anhedral masses adjacent to, and replacing plagioclase, and as blebs in fine grained quartz. Sericite also occurs in thin veinlets present throughout the sample.  
Fine to medium grained opaques are randomly distributed.

Petrographic description of thin section

Sample number      CR 209337 (DD97/04 50.72 to 50.89m)

THIN SECTION

Minerals (with estimated percentages):

Quartz	50	Epidote	tr
Plagioclase	30	Calcite	3
Sericite	10		
Chlorite	3		

Description:

Quartz is found either as fine grained, slightly strained grains in the groundmass, or as coarse (1-3mm), angular to subangular, strained grains.

Plagioclase occurs in large (1-2mm), often extensively fractured grains. Fractures are usually filled by sericite/ muscovite veinlets. Most of grains have dusty appearance due to sericite and calcite inclusions. Few grains are moderately altered to sericite/calcite. Sericite (often with coarser muscovite flakes) is present in the form of veinlets in the groundmass and through fractured grains of plagioclase. Veinlets have common orientation defining weak schistosity. Sericite is also present as inclusions in plagioclase. Chlorite is present in the form of small flakes disseminated in the groundmass. Weak to moderate preferred orientation of individual flakes can be observed.

Calcite occurs in the form of isolated blebs in the vicinity of, and as v.small inclusions in, fractured plagioclase grains.

Opaques are rare and occur as isolated, anhedral to subhedral grains.

## Petrographic description of thin section

Sample number      CR 209338 (DD97/04 84.90 to 85.08m)

### THIN SECTION

#### Minerals (with estimated percentages):

Quartz	40	Calcite	35
Plagioclase	8	Chlorite	5
Sericite	10		
opaques	<1		

**Description:**      Quartz is found either as large (<1.5mm), angular to subangular, fractured, isolated grains (10%), or in rock fragments where it is associated with plagioclase and calcite, and is characterized by undulose extinction and/or poorly developed subgrain boundaries. Minor quartz also occurs in late veinlets and in pressure shadows as very finely grained blebs.

Plagioclase occurs in some of the rock fragments. It is usually angular, subhedral and often fractured, and is characterized by "grungy" appearance due to very small sericite and calcite inclusions.

Calcite is abundant and is predominantly interstitial and fracture filling in larger isolated grains and in rock fragments. About 25% of calcite occurs in veinlets, and 35% as small subhedral to euhedral grains in the groundmass. The remainder occurs as small inclusions in plagioclase.

Sericite is present throughout in limited amounts, either in veinlets or as inclusions in larger grains (esp. in plagioclase).

Chlorite is found in the rock fragments or in late veinlets and is characterized by very dark blue pleochroism

Opagues are rare and usually occur in fine grained clusters.

Two types of rock fragments can be distinguished based on mineralogy. Three fragments (25%) are strongly altered and predominantly consist of sericite and chlorite, with the remaining fragments consisting of plagioclase+quartz+sericite+calcite. Rock fragments constitute 55-70% of the sample.

## Petrographic description of thin section

Sample number      CR 209339 (DD97/05 72.38 to 72.54m)

### THIN SECTION

#### Minerals (with estimated percentages):

Calcite	50	Chlorite	7
Quartz	35	Plagioclase	4
opaques	1		
Sericite	2		

#### Description:

The sample consists of >50% subrounded to subangular rock fragments, <1-8mm in diameter. Exact percentage of these fragments difficult to establish due to strong alteration.

Calcite is the primary constituent and is present in the form of large blebs of massive calcite (?after plagioclase?) associated with coarser grained rock fragments. Fine to very fine grained calcite is also present in the groundmass.

Quartz is found either as fine grained masses (60%) and in medium to coarser grained rock fragments. In the latter case, individual grains show poorly developed subgrain boundaries or strong undulose extinction.

The remaining grains of plagioclase are very strongly altered to calcite with small amounts of sericite present as inclusions within individual plagioclase grains.

Chlorite is present in fractures and in thin veinlets possibly defining limited schistosity, and is characterized by its deep blue interference colours.

Opaque grains are randomly distributed throughout.

## Petrographic description of thin section

Sample number      CR 209340 (DD97/05 100.34 to 100.46m)

### THIN SECTION

#### Minerals (with estimated percentages):

Calcite	50	Chlorite	<1
Quartz	30	opaques	<1
Plagioclase	10	?clay min.	2
Sericite/Musc	3		

#### Description:

Calcite is the predominant mineral in this thin section and it occurs in subhedral to anhedral masses present throughout and masking the original texture of the rock.

Quartz is present either in fine grained, anhedral masses or as larger (<1mm), strained (with undulose extinction) grains possibly in rock fragments.

Plagioclase is very strongly altered. It is present in form of small, euhedral, elongated crystals in possible rock fragments. Twinning and other features are well masked by alteration.

White mica (sericite with an occasional muscovite flake) is predominantly associated with alteration of plagioclase, with rare coarse flake of muscovite present in the groundmass.

Chlorite occurs in form of small veinlets and is characterized by deep blue pleochroism.

Clay minerals are restricted to small, rare veinlets.

Fine to very fine grained opaques are randomly distributed throughout the sample.



## Petrographic description of thin section

Sample number      CR 209342    (DD97/04 35.33 to 35.80m)

### THIN SECTION

#### Minerals (with estimated percentages):

Calcite	40	Quartz	35
Plagioclase	7	Epidote	tr
opaques	3	Sericite	3
Chlorite	8		

#### Description:

Generally fine to medium grained, somewhat sheared sample consisting of strongly altered, large (3-15mm long) rock fragments (50-70%) in fine grained matrix.

Quartz occurs predominantly in fine grained groundmass and, to lesser extent, in medium grained, strongly altered rock fragments. Coarser grained quartz shows wavy extinction.

Calcite is present throughout the sample in the form of veinlets (up to 1.5mm thick) and as fine to medium sized anhedral blebs in the groundmass and in altered rock fragments. Calcite masses in the groundmass are much smaller than those in rock fragments.

Plagioclase occurs in rock fragments or as subrounded medium sized grains in the groundmass. In both cases grains have dusty appearance due to calcite and sericite inclusions. Majority of plagioclase, however, appears to have been totally replaced by calcite and sericite.

Chlorite occurs as elongated flakes in rock fragments and along their edges.

Sericite is found either in some of the anhedral calcite blebs in rock fragments, as inclusions in plagioclase, or as thin veinlets in the groundmass.

Fine grained opaques are disseminated in the groundmass with an occasional coarser grain present in rock fragments.

## Petrographic description of thin section

Sample number CR 104472 (Recon L90 50E, 299 00N)

### THIN SECTION

#### Minerals (with estimated percentages):

Quartz	35	Chlorite	<1
Plagioclase	30	Epidote	<1
Sericite	30	Calcite	2
opaques	2		

#### Description:

Quartz is found either in fine grained, irregularly shaped masses (75%) or in medium grained subhedral to anhedral particles in rock fragments. 1-2% of fine grained quartz also found in pressure shadows of the opaques. Larger quartz grains are fractured or show undulose extinction.

Plagioclase occurs in angular grains either isolated or in rock fragments. Most grains are fractured (with quartz+sericite+/- calcite in some fractures) and/or with twinning strongly deformed. Some grains (esp. isolated ones) have cloudy appearance due to secondary sericite and, to lesser extent, calcite inclusions.

Sericite is present throughout the section either as product of alteration of plagioclase (inclusions within the grains or anhedral blebs surrounding the grains) or in late fractures.

Calcite is rare and is mostly associated with plagioclase or occurs as a very minor component in late fracture filling sericite/quartz veinlets.

Opaques occur in clusters of medium grained, euhedral to subhedral grains, or as fine to very fine particles associated with late fracture filling veinlets. Most of the medium grained opaques contain fine grained quartz in their pressure shadows.

Trace amounts of chlorite and ?epidote are found sporadically throughout the section.

Rock fragments contribute 25-50% of the sample. However, the exact percentage of rock fragments is difficult to determine due to pervasive sericitic alteration masking the original texture.

***Appendix X: List of WMC Personnel & Salaries (1997)***

**Appendix X : LIST OF WMC PERSONNEL & SALARIES (1997)**

NAME	POSITION	DAILY RATE	TOTAL DAYS*	SALARIES
C.J Baker	Senior Geologist	\$250.00	42	\$10,200
Shane Whelan	Field Assistant	\$150.00	24	\$3,600
Anne Labelle	Field Assistant	\$150.00	18	\$2,700
Kevin Kearns	Field Assistant	\$150.00	18	\$2,700
Ann Collins	Database Geolgogist	\$200.00	5	\$1,000
Lo Wu	Senior Draftsman	\$200.00	5	\$1,000
Stuart Deveau	Land Manager	\$200.00	2	\$400
Roman Tykajlo	Senior Geophysicist	\$250.00	2	\$500
<b>TOTAL SALARIES for 1997 Exploration of Doon Property</b>				<b>\$22,100</b>

\*man-days actually worked on Doon Property in 1997 and in the compilation of this report

***Appendix XI: Estimate of Expenditures - Doon Property (1997)***

**Appendix XI : ESTIMATE OF EXPENDITURES - DOON PROPERTY 1997**

<b>TYPE OF WORK</b>	<b>EXPENDITURE</b>	<b>COMPANY</b>
<i>Salaries</i> (for mapping, sampling, report writing and drafting from Appendix X)	\$22,100.00	WMC International Limited Nepean, Ontario.
<i>Diamond Drilling:</i> -Drilling operations (7 DDH, 1372 metres)	\$68,813.97	Heath & Sherwood (1986) Kirkland Lake, Ontario
<i>Laboratory Costs:</i> -Sample preparation, rock assaying. -Thin sections descriptions	\$6,508.50 \$480.00	Swastika Assay Laboratory Swastika, Ontario. M. Russer, Mississauga
Radio Rental	\$430.92	Ottawa Communications
<i>Transportation</i> - Gas, maintenance on vehicle	\$4377.31	Imperial Oil, Petro-Canada, H&D Lytle Auto Service
<i>Accommodation</i> (food, rent, motel, telephone)	\$1334.17	Guimond Real Estate, Bonair Motel, NorTel
Postage, stationery, printing	\$341.28	Don's Office Supply, Purolator,
<b>TOTAL</b>	<b>\$104,386.15</b>	



Ministry of  
Northern Development  
and Mines

# Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use)  
**W9880.00195**  
Assessment Files Research Imaging



41P15NW2001 2.18272 DOON

900

of subsections 65(2) and 66(3) of the Mining Act. Under section 8 of the  
review the assessment work and correspond with the mining land holder.  
Recorder, Ministry of Northern Development and Mines, 6th Floor,

**Instructions:** - For work performed on Crown Lands before recording a claim, use form 0240.  
- Please type or print in ink.

**2.18272**

## 1. Recorded holder(s) (Attach a list if necessary)

Name <b>WMC INTERNATIONAL LIMITED</b>	Client Number <b>293367</b>
Address <b>22 GURWARA ROAD</b>	Telephone Number <b>(613) 727-3937</b>
<b>NEPEAN, ON K2E 8A2</b>	Fax Number <b>(613) 727-3970</b>
Name	Client Number
Address	Telephone Number
	Fax Number

**RECEIVED**

**MAR 25 1998**

## 2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration

- ☒ Geotechnical: prospecting, surveys, assays and work under section 18 (regs) ☐ Physical: drilling, stripping, trenching and associated assays ☐ Rehabilitation

Work Type <b>MAPPING, ASSAYS, GEOPHYSICS</b>	Office Use
	Commodity
	Total \$ Value of Work Claimed <b>16,226</b>
Dates Work Performed From <b>01 06 97</b> To <b>01 03 98</b>	NTS Reference
Global Positioning System Data (if available)	Mining Division <b>Harder Lake</b>
Township/Area <b>DOON / MIDLOTHIAN</b>	Resident Geologist District <b>Kirkland Lake</b>
M or G-Plan Number <b>G-3628 / G-3684</b>	

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required;  
- provide proper notice to surface rights holders before starting work;  
- complete and attach a Statement of Costs, form 0212;  
- provide a map showing contiguous mining lands that are linked for assigning work;  
- include two copies of your technical report.

## 3. Person or companies who prepared the technical report (Attach a list if necessary)

Name <b>WMC INTERNATIONAL LIMITED</b>	Telephone Number <b>(613) 727-3937</b>
Address <b>22 GURWARA ROAD, NEPEAN, ON K2E 8A2</b>	Fax Number <b>(613) 727-3970</b>
Name	Telephone Number
Address	Fax Number
Name	Telephone Number
Address	Fax Number

## 4. Certification by Recorded Holder or Agent

I, **C.J. BAKER**, do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent 	Date <b>MARCH 23, 1998</b>
Agent's Address <b>22 GURWARA ROAD, NEPEAN, ON K2E 8A2</b>	Telephone Number <b>(613) 727-3937</b>
	Fax Number <b>(613) 727-3970</b>

**Deemed JUNE 23/98**

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						
2						
3						
4	Please See Attached "Schedule A"					
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
Column Totals						

I, REX BROMMECKER , 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  
Rex Brommecker

Date  
24-3-98

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)	



**Schedule A**  
**Cost Distribution**  
**1997 Mapping**

2.18272

Claim Number	Units	\$ Value Work Performed	\$ Value Work Applied	\$ Value Work Assigned	Reserve
1207603	16	\$704.24	\$0.00	\$704.24 /	\$0.00
1207604	16	\$2,077.82	\$6,400.00	\$0.00 /	\$0.00
1207605	8	\$1,145.78	\$3,200.00	\$0.00 /	\$0.00
1207606	8	\$1,337.03	\$0.00	\$1,337.03 /	\$0.00
1207607	8	\$886.30	\$0.00	\$886.30 /	\$0.00
1207608	16	\$883.80	\$0.00	\$883.80 /	\$0.00
1207610	8	\$141.17	\$3,200.00	\$0.00 /	\$0.00
1207611	16	\$1,265.70	\$226.00	\$1,039.70 /	\$0.00
1207612	8	\$1,006.22	\$3,200.00	\$0.00 /	\$0.00
1207613	9	\$1,006.22	\$0.00	\$1,006.22 /	\$0.00
1207622	16	\$704.24	\$0.00	\$704.24 /	\$0.00
1207623	16	\$1,408.47	\$0.00	\$1,408.47 /	\$0.00
1207624	16	\$1,408.47	\$0.00	\$1,408.47 /	\$0.00
1207625	8	\$704.24	\$0.00	\$704.24 /	\$0.00
1207626	16	\$1,124.53	\$0.00	\$1,124.53 /	\$0.00
1223333	3	\$421.90	\$0.00	\$421.90 /	\$0.00
	188	\$16,226	\$16,226	\$11,629	\$0.00

**RECEIVED**  
 MAR 25 1998  
 GEOSCIENCE ASSESSMENT  
 OFFICE

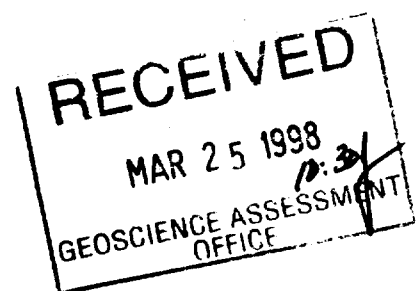
Appendix I

2 . 1 8 2 7 2

Credit Cut Back Order of Priority

If credits are to be cut back, please do so in the following order of priority:

1207610  
1207611  
1207612  
1207604  
1207605



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.

**2 . 1 8 2 7 2**

Work Type	Units of Work <small>Depending on the type of work, list the number of hours/days worked, metres of drilling, kilo-metres of grid line, number of samples, etc.</small>	Cost Per Unit of work	Total Cost
GEOLOGIST	18 days	\$250/day	\$4,500.00
ASSISTANT (2)	36 days	\$150/day	\$5,400.00
GEOPHYSICIST	2 days	\$250/day	\$500.00
ADMINISTRATIVE SUPPORT	12 days	\$200/day	\$2,400.00
SAMPLES	21 samples	\$21.25/sample	\$446.25
THIN SECTION	1 section	\$40/section	\$40.00
Associated Costs (e.g. supplies, mobilization and demobilization).			
RADIO RENTAL			\$215.46
Supplies (postage, stationery, printing)			\$170.64
Transportation Costs (Car, Vehicle Maintenance)			\$2,188.64
Food and Lodging Costs			\$365.01
Total Value of Assessment Work			\$16,226.00

**RECEIVED**

MAR 25 1993

 GEOSCIENCE ASSESSMENT  
OFFICE

**Calculations of Filing Discounts:**

- Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
- 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, REX BROMMECKER (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 Manager, Gold Exploration - Canada (recorded holder, agent, or state company position with signing authority) I am authorized to make this certification.

Signature <u>Rex Bromm</u>	Date 24-3-98
-------------------------------	-----------------



**Declaration of Assessment Work  
Performed on Mining Land**

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use) <b>W9880.00196</b>
Assessment Files Research Imaging

Personal information collected on this form is obtained under the authority of subsections 65(2) and 66(3) of the Mining Act. 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.

**Instructions:** - For work performed on Crown Lands before recording a claim, use form 0240.  
- Please type or print in ink.

**1. Recorded holder(s)** (Attach a list if necessary)

Name <b>WMC INTERNATIONAL LIMITED</b>	Client Number <b>293367</b>
Address <b>22 GURWARA ROAD</b>	Telephone Number <b>(613) 727-3937</b>
<b>NEPEAN, ON K2E 8A2</b>	Fax Number <b>(613) 727-3970</b>
Name	Client Number
Address	Telephone Number
	Fax Number

**2. Type of work performed:** Check (✓) and report on only ONE of the following **GEOTECHNICAL ASSESSMENT OFFICE**

☐ Geotechnical: prospecting, surveys, assays and work under section 18 (regs) ☒ Physical: drilling, stripping, trenching and associated assays ☐ Rehabilitation

Work Type <b>DIAMOND DRILLING</b>	Office Use
	Commodity
	Total \$ Value of Work Claimed <b>88,160</b>
Dates Work Performed From <b>14</b> <b>07</b> <b>97</b> To <b>01</b> <b>03</b> <b>98</b> ✓ Day Month Year Day Month Year	NTS Reference
Global Positioning System Data (if available)	Mining Division <b>Gardner Lake</b>
Township/Area <b>DOON TOWNSHIP</b>	Resident Geologist District <b>Kirkland Lake</b>
M or G-Plan Number <b>G-3628</b>	

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required;  
- provide proper notice to surface rights holders before starting work;  
- complete and attach a Statement of Costs, form 0212;  
- provide a map showing contiguous mining lands that are linked for assigning work;  
- include two copies of your technical report.

**3. Person or companies who prepared the technical report** (Attach a list if necessary)

Name <b>HEATH &amp; SHERWOOD DRILLING (1986) INC.</b>	Telephone Number <b>(705) 567-9311</b>
Address <b>P2W 3L3</b>	Fax Number
<b>P.O. BOX 998, 34 DUNCAN AVE. NORTH, KIRKLAND LAKE, ON</b>	<b>(705) 567-3014</b>
Name	Telephone Number
Address	Fax Number
Name	Telephone Number
Address	Fax Number

**4. Certification by Recorded Holder or Agent**

I, **C.J. BAKER** (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent 	Date <b>MARCH 23, 1998</b>
Agent's Address <b>22 GURWARA ROAD, NEPEAN, ON K2E 8A2</b>	Telephone Number <b>(613) 727-3937</b>
	Fax Number <b>(613) 727-3970</b>

**DEEMED JUNE 23/98**

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	<del>1207604</del>	<del>16</del>				
2	<del>1207606</del>	<del>8</del>				
3	<del>1207607</del>	<del>8</del>				
4						
5	Please See Attached "Schedule A"					
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
Column Totals						

I, REX BROMMECKER , 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 <u>Rex Brommecker</u>	Date <u>24-3-98</u>
--	------------------------

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.

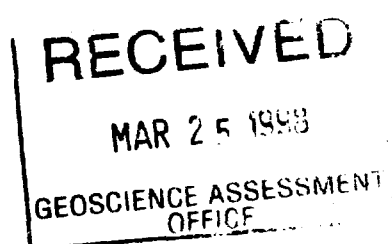
For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	

**Credit Cut Back Order of Priority**

If credits are to be cut back, please do so in the following order of priority:

1207610  
1207625  
1207623  
1207624  
1207611  
1207613  
1207612  
1207604  
1207605  
1207607  
1207606



W9880.00196

**Schedule A**  
**Cost Distribution**  
**1997 Diamond Drilling**

2.18272

Claim Number	Units	\$ Value Work Performed	\$ Value Work Applied	\$ Value Work Assigned	Reserve
1207604	16	\$36,058.54	\$6,400.00	\$29,658.54	\$0.00
1207605	8	\$0.00	\$3,200.00	\$0.00	\$0.00
1207606	8	\$43,660.20	\$6,400.00	\$32,272.09	\$7,586.15
1207607	8	\$8,441.28	\$6,400.00	\$2,041.28	\$0.00
1207610	8	\$0.00	\$3,200.00	\$0.00	\$0.00
1207611	16	\$0.00	\$12,574.00	\$0.00	\$0.00
1207612	8	\$0.00	\$3,200.00	\$0.00	\$0.00
1207613	9	\$0.00	\$7,200.00	\$0.00	\$0.00
1207623	16	\$0.00	\$12,800.00	\$0.00	\$0.00
1207624	16	\$0.00	\$12,800.00	\$0.00	\$0.00
1207625	8	\$0.00	\$6,400.00	\$0.00	\$0.00
	121	\$88,160	\$80,574	\$63,972	\$7,586

**RECEIVED**  
MAR 25 1998  
GEOSCIENCE ASSESSMENT  
OFFICE

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.

2.18272

Work Type	Units of Work Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
DIAMOND DRILLING	1371.65 metres	\$50.17/m	\$68,813.97
GEOLOGIST	24 days	\$250/day	\$6,000.00
ASSISTANT	24 days	\$150/day	\$3,600.00
THIN SECTION ANALYSIS	11 sections	\$40/section	\$440.00
SAMPLE ANALYSIS	274 samples	\$21.25/sample	\$5,822.50
WHOLE ROCK ANALYSIS	8 samples	\$30.00/sample	\$240.00
Associated Costs (e.g. supplies, mobilization and demobilization).			
	RADIO RENTAL		\$215.46
	SUPPLIES (postage, stationery, printing)		\$170.64
	Transportation Costs (Gas, vehicle Maintenance)		\$2,188.64
	Food and Lodging Costs		\$668.79
Total Value of Assessment Work			\$88,160.00

RECEIVED

MAR 25 1998

GEOSCIENCE ASSESSMENT OFFICE

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, Rex Brommecker (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 Manager, Gold Exploration-Canada (recorded holder, agent, or state company position with signing authority) I am authorized to make this certification.

Signature <u>Rex Brommecker</u>	Date 24-3-98
------------------------------------	-----------------



Geoscience Assessment Office  
933 Ramsey Lake Road  
6th Floor  
Sudbury, Ontario  
P3E 6B5

Telephone: (888) 415-9846  
Fax: (705) 670-5881

June 4, 1998

C.J. Baker  
WMC INTERNATIONAL LIMITED  
AMERICAS DIVISION - EXPLORATION  
22 GUARDWARA ROAD  
NEPEAN, ONTARIO  
K2E-8A2

Visit our website at:  
[www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm](http://www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm)

Dear Sir or Madam:

**Submission Number: 2.18272**

**Status**

<b>Subject: Transaction Number(s):</b>	W9880.00195	Deemed Approval
	W9880.00196	Deemed Approval

---

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. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

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 Steve Beneteau by e-mail at [benetest@epo.gov.on.ca](mailto:benetest@epo.gov.on.ca) or by telephone at (705) 670-5855.

Yours sincerely,



ORIGINAL SIGNED BY  
Blair Kite  
Supervisor, Geoscience Assessment Office  
Mining Lands Section

# Work Report Assessment Results

---

**Submission Number:** 2.18272

**Date Correspondence Sent:** June 04, 1998

**Assessor:** Steve Beneteau

---

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9880.00195	1207603	DOON, MIDLOTHIAN	Deemed Approval	June 03, 1998

**Section:**  
12 Geological GEOL

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9880.00196	1207604	DOON	Deemed Approval	June 03, 1998

**Section:**  
16 Drilling PDRILL

**Correspondence to:**  
Resident Geologist  
Kirkland Lake, ON

Assessment Files Library  
Sudbury, ON

**Recorded Holder(s) and/or Agent(s):**

C.J. Baker  
WMC INTERNATIONAL LIMITED  
NEPEAN, ONTARIO

FREDERICK BLAKE  
TEMAGAMI, Ontario

ANGUS JOHN MACDONNELL  
TILDEN LAKE, ONTARIO

ROBERT COMSTOCK  
TEMAGAMI, Ontario

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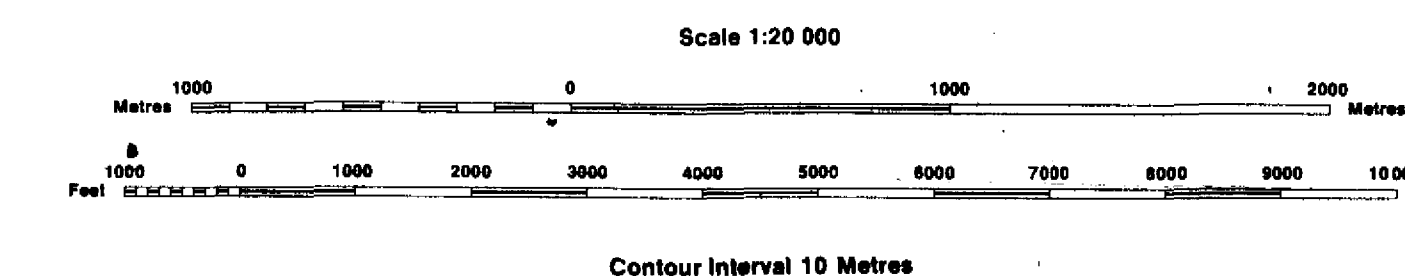
Ministry of  
Natural  
Resources

Ministry of  
Northern Development  
and Mines

# INDEX TO LAND DISPOSITION

PLAN  
G-3628  
TOWNSHIP  
DOON

M.N.R. ADMINISTRATIVE DISTRICT  
KIRKLAND LAKE  
MINING DIVISION  
LARDER LAKE  
LAND TITLES/REGISTRY DIVISION  
TIMISKAMING



## AREAS WITHDRAWN FROM DISPOSITION

MRO - Mining Rights Only  
SRO - Surface Rights Only  
M + S - Mining and Surface Rights

Description	Order No.	Date	Disposition	File
ORDER NO. O-L-7/95 NER REOPENS W.70/83 APRIL 4/95	10-70/83	10-70/83	M + S	
ORDER NO. O-L-10/95 REOPENS W.65/83 APRIL 4/95	10-65/83	10-65/83	M + S	

## SYMBOLS

Boundary	
Township, Meridian, Baseline	—
Road allowance; surveyed	—
shoreline	—
Lot/Concession; surveyed	—
unsurveyed	—
Parcel; surveyed	—
unsurveyed	—
Right-of-way; road	—
railway	—
utility	—
Reservation	—
Cliff, Pit, Pile	—
Contour	—
Interpolated	—
Approximate	—
Depression	—
Control point (horizontal)	—
Flooded land	—
Mine head frame	—
Pipeline (above ground)	—
Railway; single track	—
double track	—
abandoned	—
Road; highway, county, township	—
access	—
trail, bush	—
Shoreline (original)	—
Transmission line	—
Wooded area	—

DATE OF ISSUE  
JUN 03 1998

PROVINCIAL RECORDS  
OFFICE - SUDBURY

## NOTES

L.O. 7601 COVERS FLOODING RIGHTS IN THIS TWP TO BELOW CONTOUR  
870.00' TO H.E.P.C. FILE 12290 Vol. 2

## DISPOSITION OF CROWN LANDS

Patent	
Surface & Mining Rights	●
Surface Rights Only	○
Mining Rights Only	●
Lease	
Surface & Mining Rights	■
Surface Rights Only	□
Mining Rights Only	■
Licence of Occupation	▼
Order-in-Council	OC
Cancelled	⊙
Reservation	⊙
Sand & Gravel	⊙

## NOTICE OF FORESTRY ACTIVITY

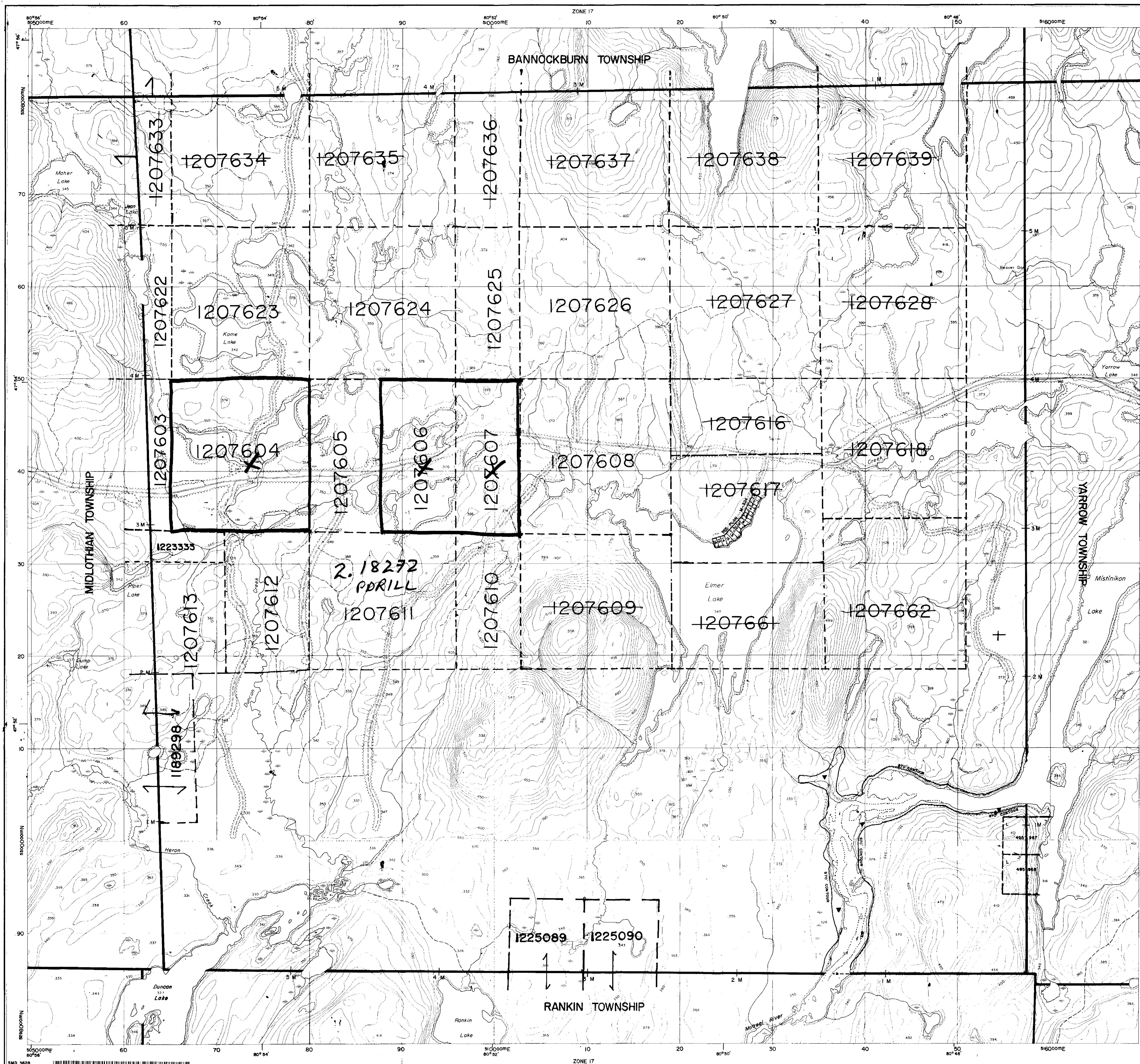
THIS TOWNSHIP / AREA FALLS WITHIN THE  
ELK LAKE MANAGEMENT UNIT  
AND MAY BE SUBJECT TO FORESTRY OPERATIONS.  
THE MNR UNIT FORESTER FOR THIS AREA CAN BE  
CONTACTED AT: P.O. BOX 129  
SUDBURY, ONT.  
705-642-3222

CIRCULATED AUG. 19, 1992 B.R.B.

ARCHIVED MAY 06, 1997.

Map base and land disposition drafting by Surveys and Mapping  
Branch, Ministry of Natural Resources.

The disposition of land, location of lot fabric and parcel boundaries on  
this index was compiled for administrative purposes only.



41P15NW201 2.18272 DOON

200



# AREAS WITHDRAWN FROM DISPOSITION

M.R.O. - MINING RIGHTS ONLY  
S.R.O. - SURFACE RIGHTS ONLY  
M. & S. - MINING AND SURFACE RIGHTS

Description Order No. Date Disposition File

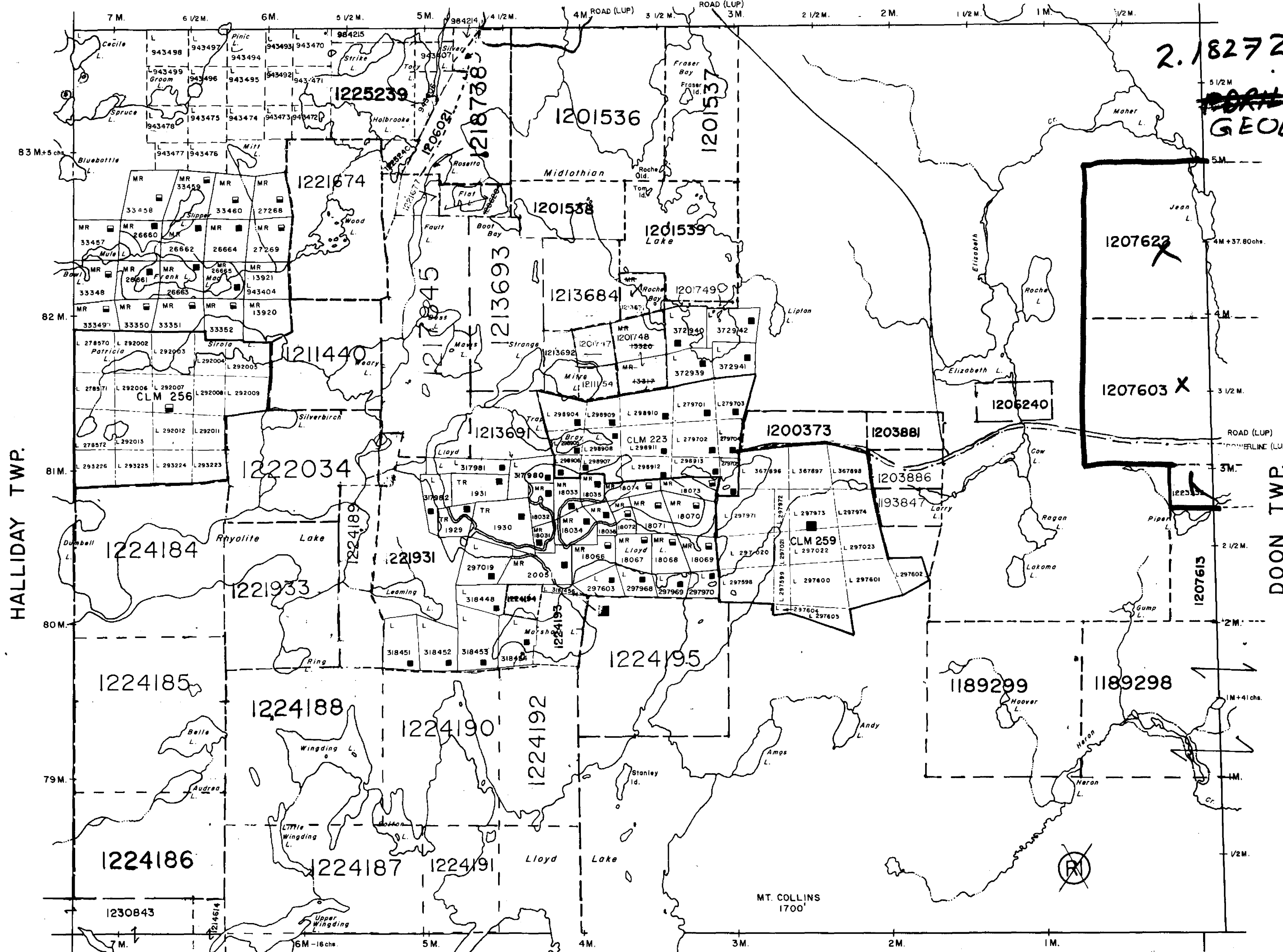
M.R.W. 65/83 16/11/83 M. & S.  
M.R.W. 71/84 16/11/84 M. & S.  
(R) Mining & Surface Rights Reopened to prospecting, sale or lease, Order O.C. 10/95, previously withdrawn under Order W-65/83

DATE OF ISSUE  
JUN 03 1998

PROVINCIAL RECORDING  
OFFICE - SUDBURY

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 HEREON.

## MONTROSE TWP.







Ministry of  
Natural  
Resources

Ministry of  
Northern Development  
and Mines

# INDEX TO LAND DISPOSITION

PLAN

G-3628

TOWNSHIP

DOON

M.N.R. ADMINISTRATIVE DISTRICT

KIRKLAND LAKE

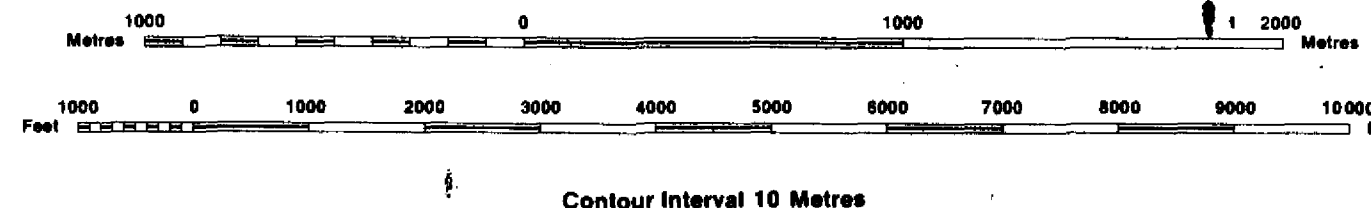
MINING DIVISION

LARDER LAKE

LAND TITLES/REGISTRY DIVISION

TIMISKAMING

Scale 1:20 000



## AREAS WITHDRAWN FROM DISPOSITION

MRO - Mining Rights Only  
SRO - Surface Rights Only  
M + S - Mining and Surface Rights

Description	Order No.	Date	Disposition	File
ORDER NO. O-L-7/95 NER REOPENS W/70/83 APRIL 4/95	11-70/83	25/10/83	M + S	
ORDER NO. O-L-7/95 REOPENS W/65/83 APRIL 4/95	11-65/83	30/10/83	M + S	

## SYMBOLS

Boundary	.....
Township, Meridian, Baseline	.....
Road allowance; surveyed	.....
shoreline	.....
Lot/Concession; surveyed	.....
unsurveyed	.....
Parcel; surveyed	.....
unsurveyed	.....
Right-of-way; road	.....
railway	.....
utility	.....
Reservation	.....
Cliff, Pit, Pile	.....
Contour	.....
Interpolated	.....
Approximate	.....
Depression	.....
Control point (horizontal)	.....
Flooded land	.....
Mine head frame	.....
Pipeline (above ground)	.....
Railway; single track	.....
double track	.....
abandoned	.....
Road; highway, county, township	.....
access	.....
trail, bush	.....
Shoreline (original)	.....
Transmission line	.....
Wooded area	.....

## NOTES

L.D. 7501 COVERS FLOODING RIGHTS IN THIS TWP. TO BELOW CONTOUR  
870.00' TO H.E.P.C. FILE 12290 Vol. 2

## DISPOSITION OF CROWN LANDS

Patent	.....
Surface & Mining Rights	.....
Surface Rights Only	.....
Mining Rights Only	.....
Lease	.....
Surface & Mining Rights	.....
Surface Rights Only	.....
Mining Rights Only	.....
Licence of Occupation	.....
Order-in-Council	.....
Cancelled	.....
Reservation	.....
Sand & Gravel	.....

## NOTICE OF FORESTRY ACTIVITY

THIS TOWNSHIP / AREA FALLS WITHIN THE  
ELK LAKE MANAGEMENT UNIT

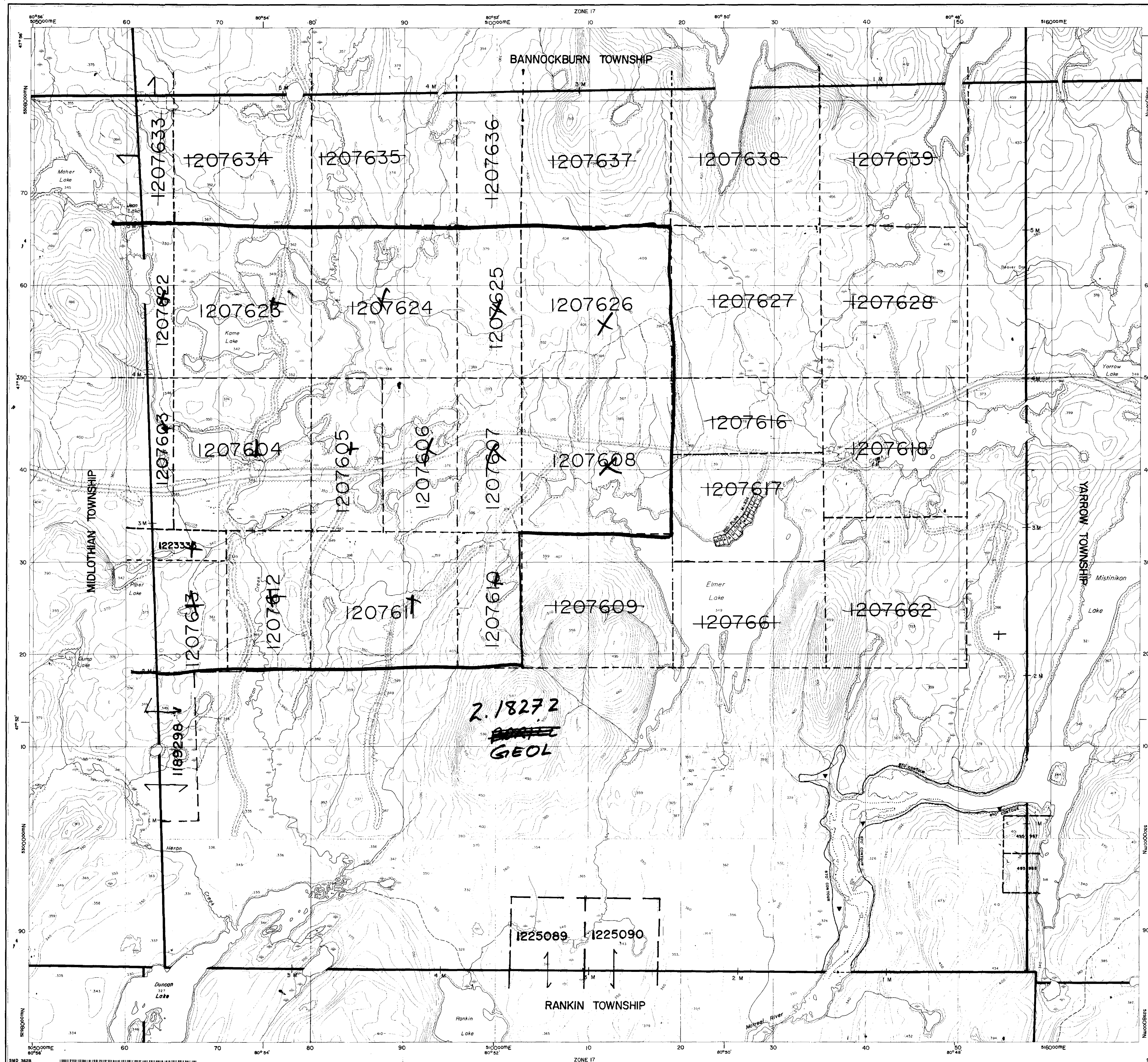
AND MAY BE SUBJECT TO FORESTRY OPERATIONS.  
THE MIN. DEPARTMENT FOR THIS AREA CAN BE  
CONTACTED AT: P.O. BOX 129  
S.WASTKA, ONT.  
705-642-3222

CIRCULATED AUG. 19, 1992 B.R.B.

ARCHIVED MAY 06, 1997.

Map base and land disposition drafting by Surveys and Mapping  
Branch, Ministry of Natural Resources

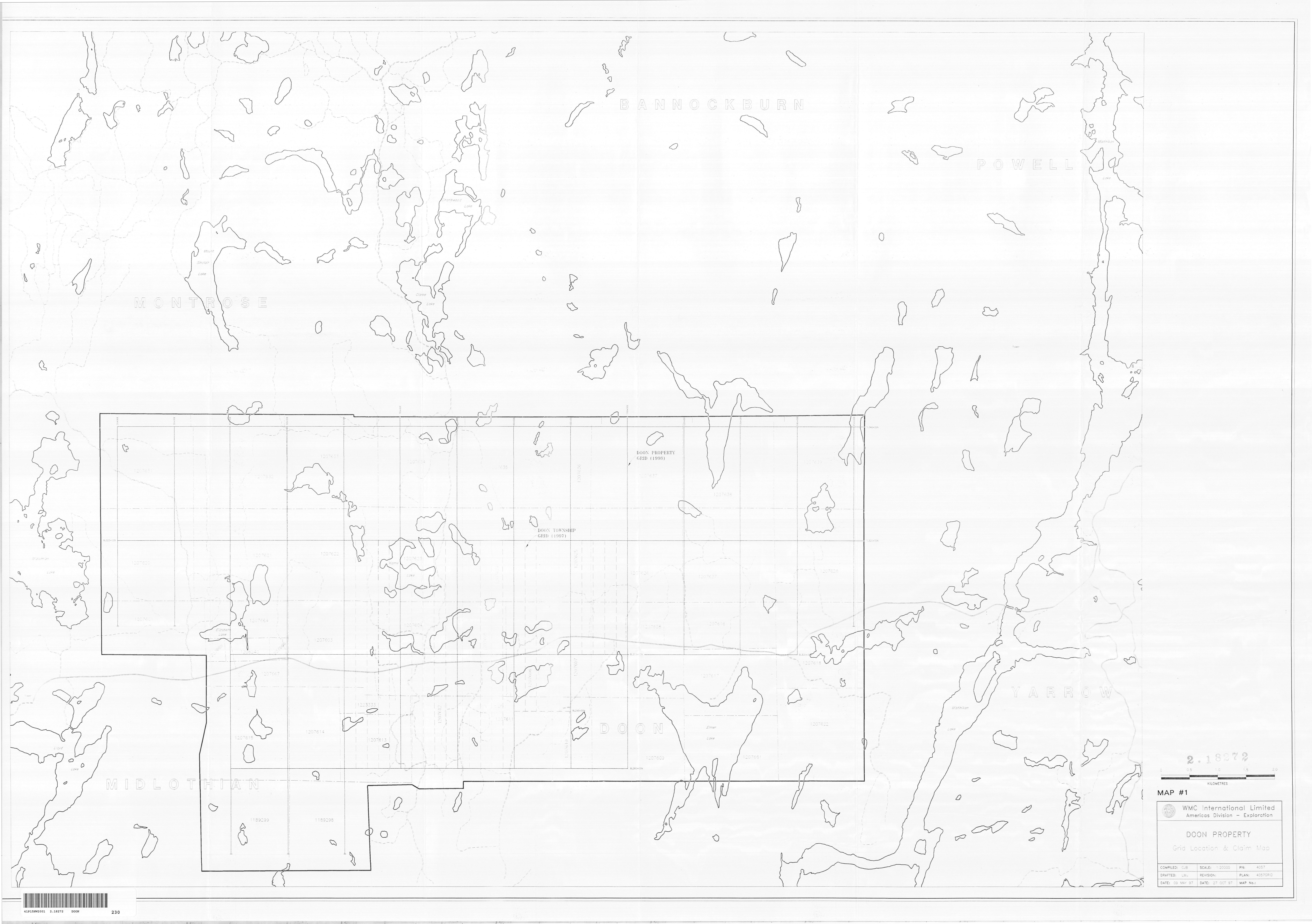
The disposition of land, location of lot fabric and parcel boundaries on  
this index was compiled for administrative purposes only.



41215NW201 2.18272 DOON

220





MAP #1

WMC International Limited  
Americas Division - Exploration

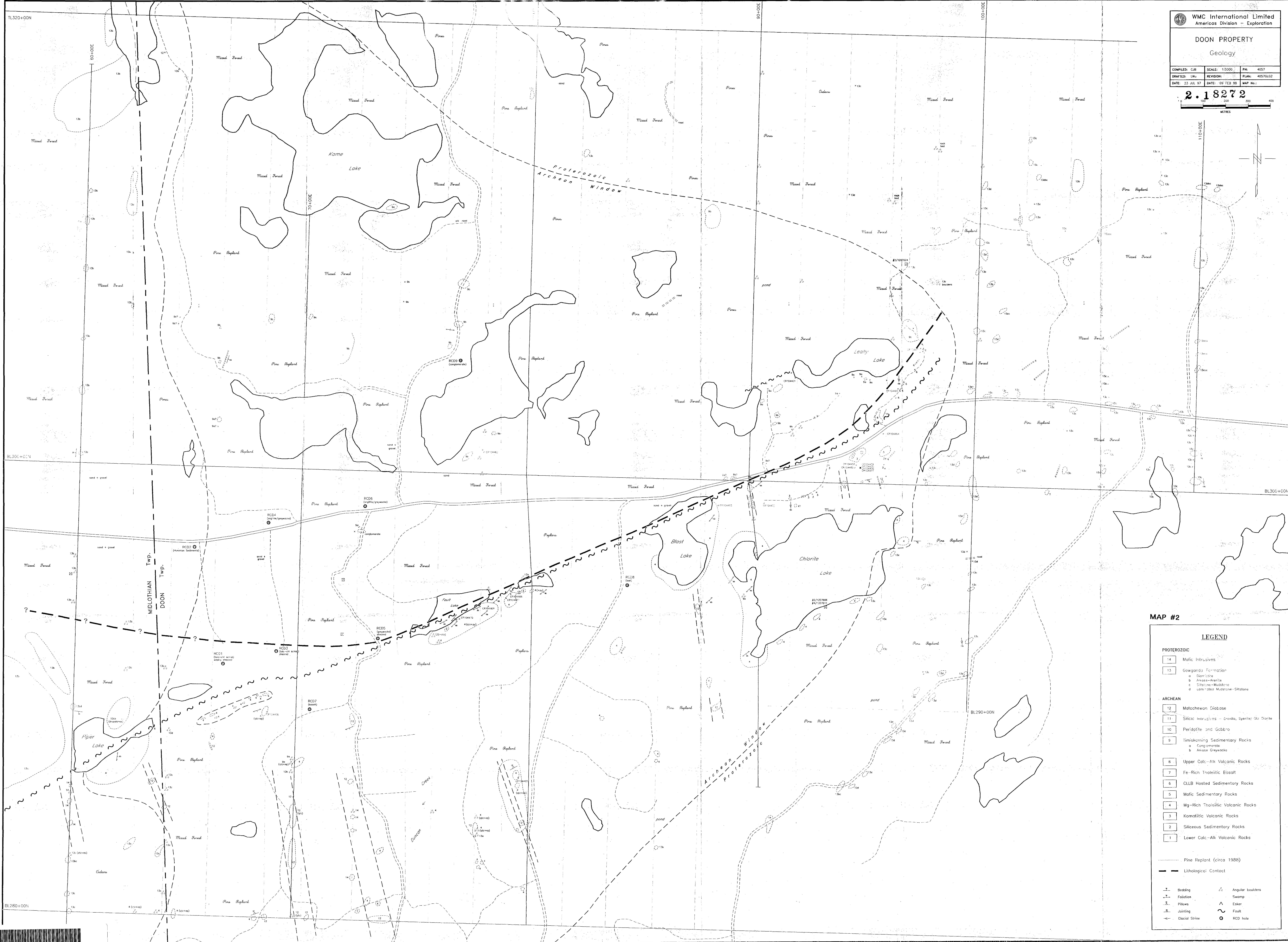
DOON PROPERTY  
Grid Location & Claim Map

COMPILED: GJB	SCALE: 1:20000	PN: 4057
DRAFTED: LWA	REVISION:	PLAN: 40570RD
DATE: 09 MAY 97	DATE: 27 OCT 97	MAP No:



41015902001 2.18272 DOON





WMC International Limited  
Americas Division - Exploration

DOON PROPERTY

Geology

COMPILED: CJB	SCALE: 1:5000	PN: 4057
DRAFTED: LWB	REVISION:	PLAN: 4057GL02
DATE: 23 JUL 97	DATE: 09 FEB 98	MAP No.:

2.18272

0 100 200 300 400 METRES

MAP #2

LEGEND

PROTEROZOIC

- 14 Mafic Intrusives
- 13 Gowganda Formation
  - a Diabase
  - b Anorthite
  - c Silicified Mudstone
  - d Low-grade Mudstone-Siltstone

ARCHEAN

- 12 Matichewan Diabase
- 11 Silicified Intrusives - Granite, Syenite, Gneiss
- 10 Peridotite and Gabbro
- 9 Timiskaming Sedimentary Rocks
  - a Conglomerate
  - b Arkose Gneiss
- 8 Upper Calc-Alk Volcanic Rocks
- 7 Fe-Rich Tholeiitic Basalt
- 6 CLB Hosted Sedimentary Rocks
- 5 Mafic Sedimentary Rocks
- 4 Mg-Rich Tholeiitic Volcanic Rocks
- 3 Komatiitic Volcanic Rocks
- 2 Siliceous Sedimentary Rocks
- 1 Lower Calc-Alk Volcanic Rocks

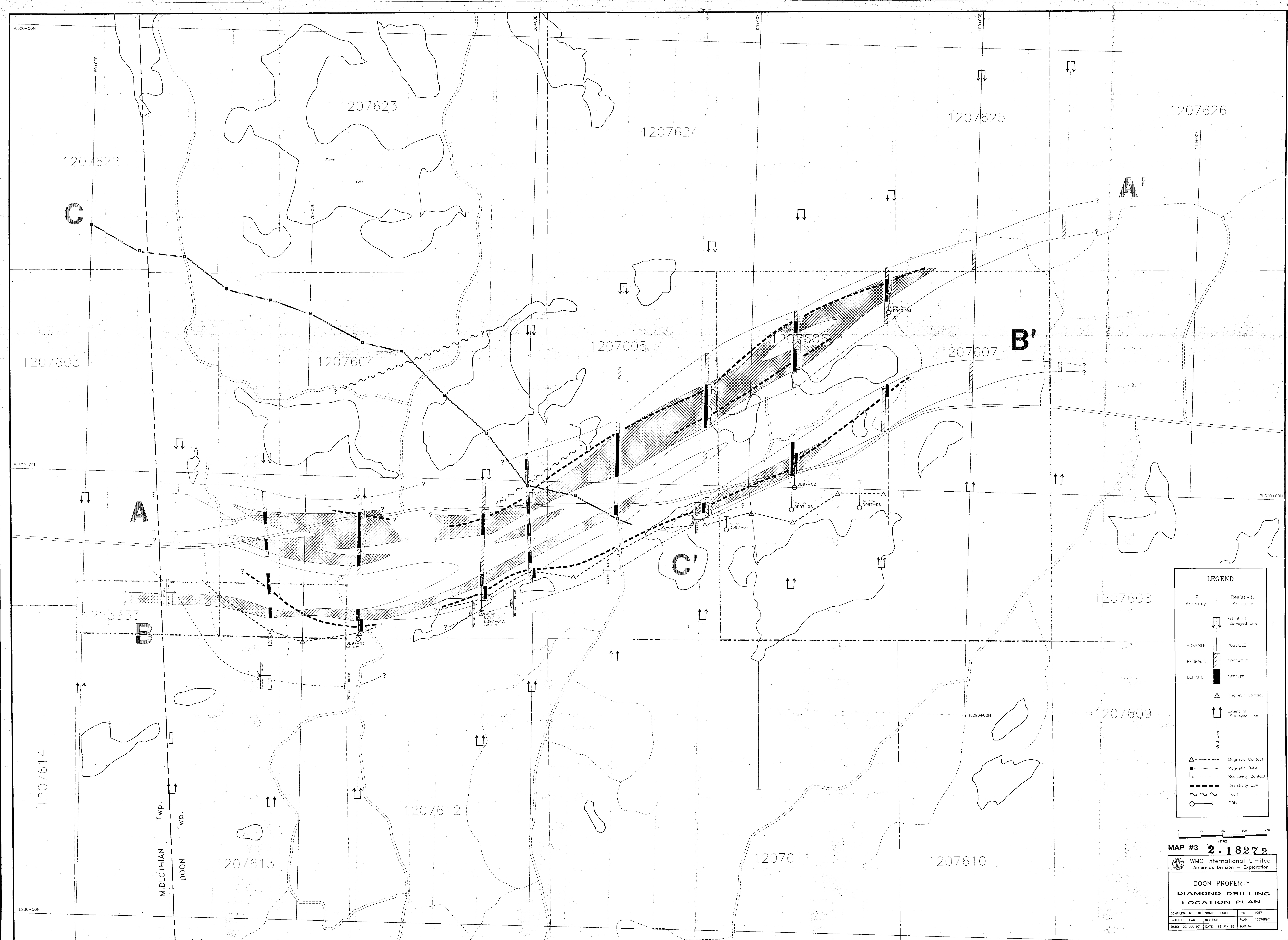
..... Pine Replant (circa 1988)

--- Lithological Contact

Bedding  
Foliation  
Pillows  
Jointing  
Glacial Striae

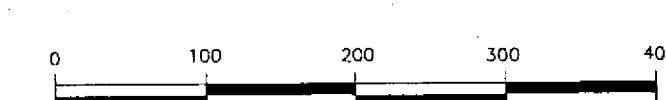
Angular boulders  
Swamp  
Esker  
Fault  
RCD hole





**LEGEND**

IF Anomaly	Resistivity Anomaly
Extent of Surveyed Line	
POSSIBLE	POSSIBLE
PROBABLE	PROBABLE
DEFINITE	DEFINITE
Magnetic Contact	
Extent of Surveyed Line	
Grid Line	
Magnetic Contact	
Magnetic Dyke	
Resistivity Contact	
Resistivity Low	
Fault	
DDH	



MAP #3 **2.18272**

WMC International Limited  
Americas Division - Exploration

**DOON PROPERTY  
DIAMOND DRILLING  
LOCATION PLAN**

COMPILED: RY, CJB	SCALE: 1:5000	PR: 4057
DRAFTED: LNU	REVISION:	PLAN: 45672PH
DATE: 23 JUL 97	DATE: 19 JAN 98	MAP No.:



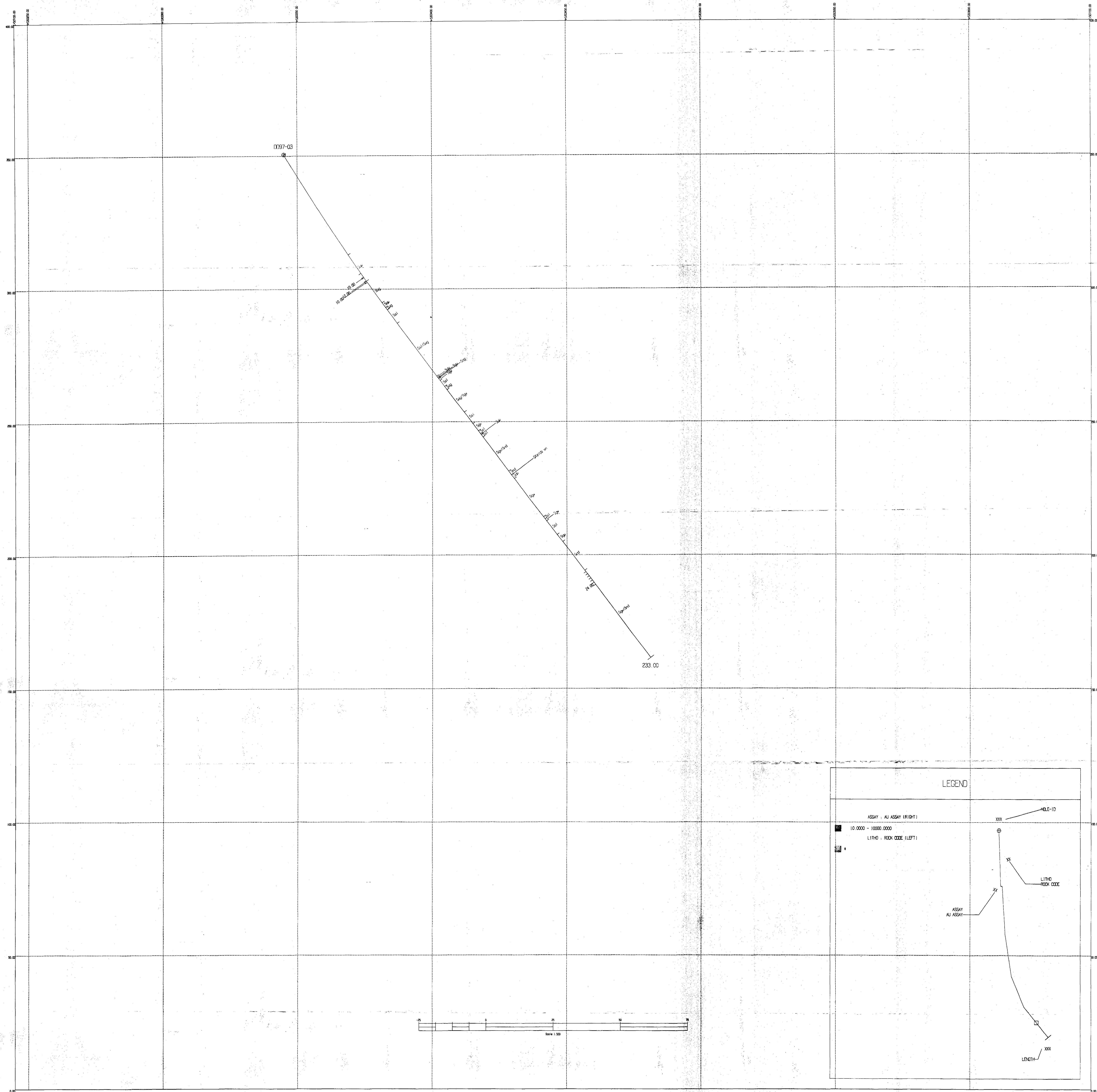


FIGURE #4

<p>Exploration Division 22 Gundwana Road Nelson, ON</p> <p>UNITS - METERS DATE: 06/20/13 TIME: 11:26:54 DRAWN BY: CJ BAKER</p>	<p>WMC International Limited</p> <p>DOON X-SECTION 72+00E</p>
--	---





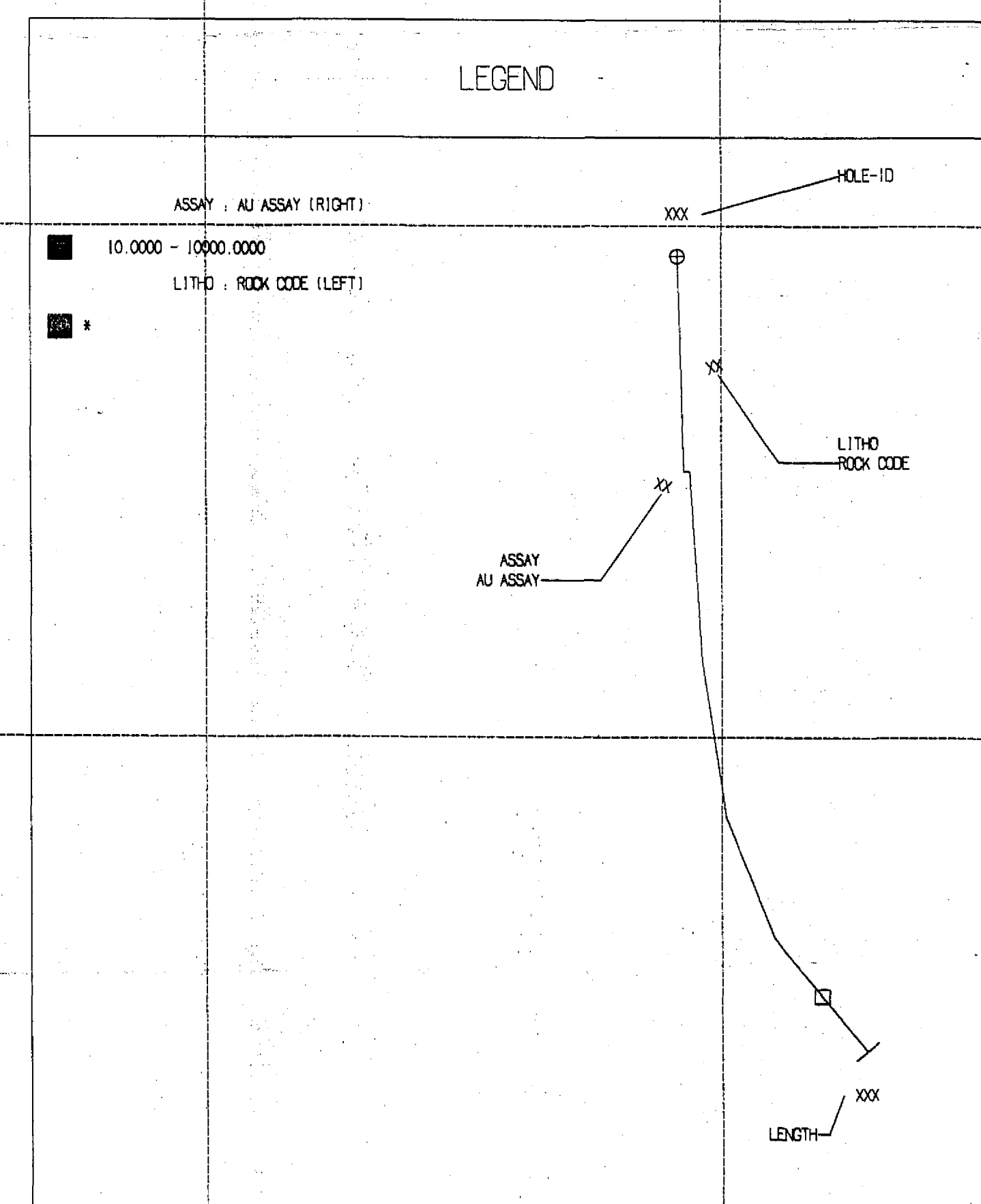
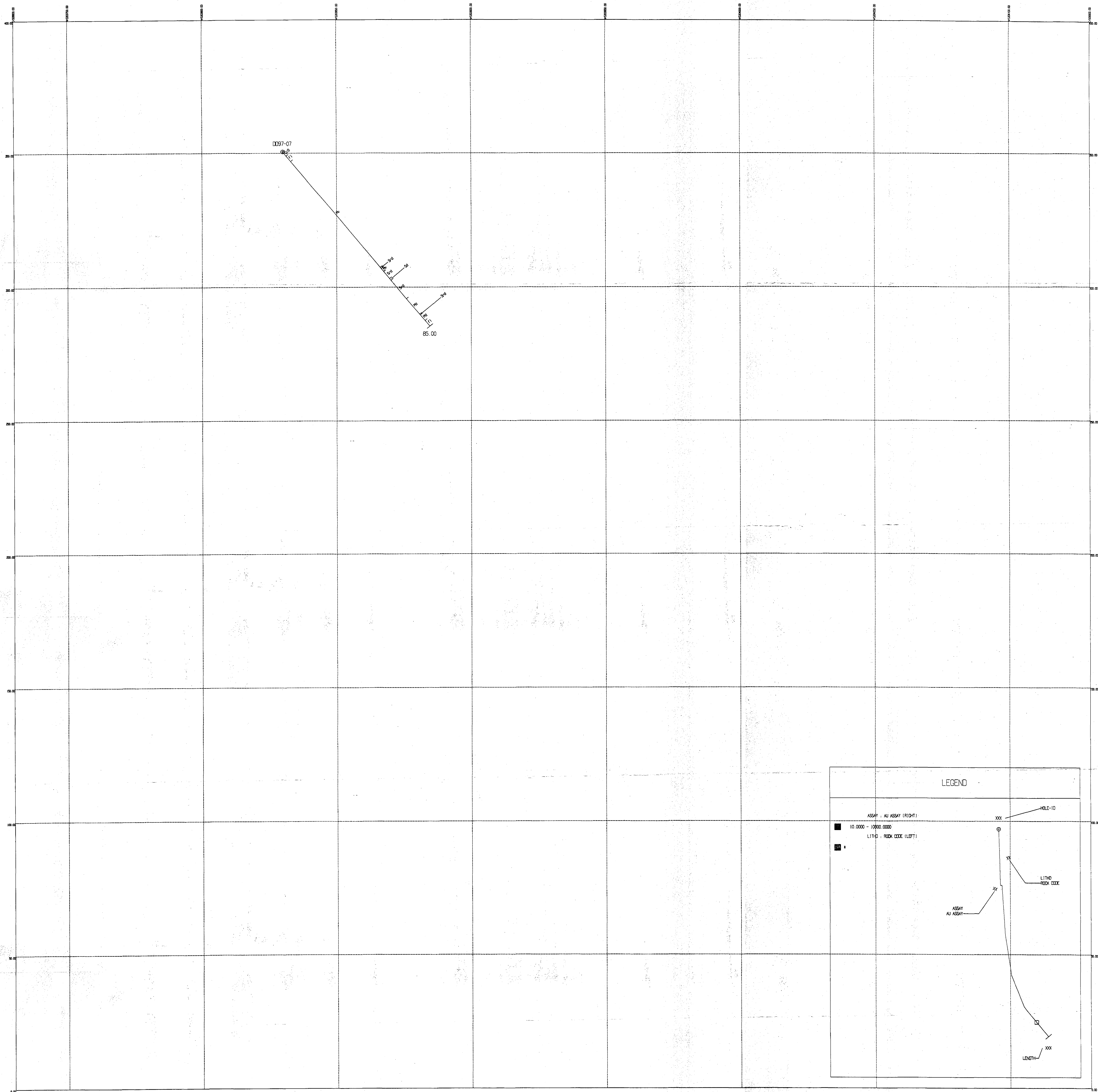


FIGURE #6

2.18272

Exploration Division 22 Dundas Road Nepean, ON K2E 6A2			
UNITS	METRES	DATE	08/02/13
DRAWN BY	CJ BAKER	TIME	10:18:08

WMC International Limited	
DOON X-SECTION	
88+00E	





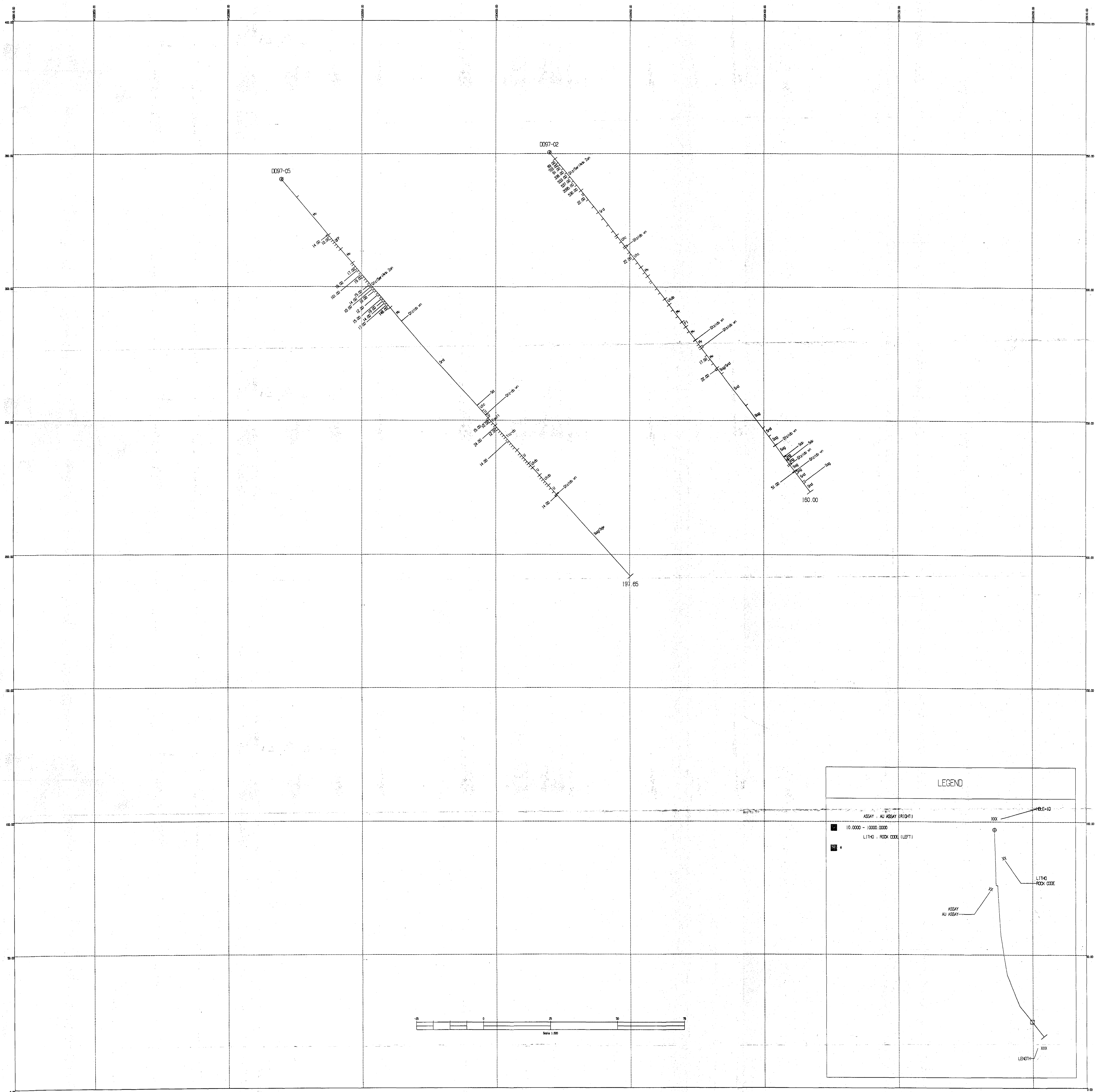


FIGURE #7

Exploration Division 22 Dundas Road Nelson, B.C.		WMC International Limited	
UNITS : METRES DATE : 06/02/13 TIME : 10:34:30		DOON X-SECTION	
DRAWN BY : C.J. BAKER		92+00E	

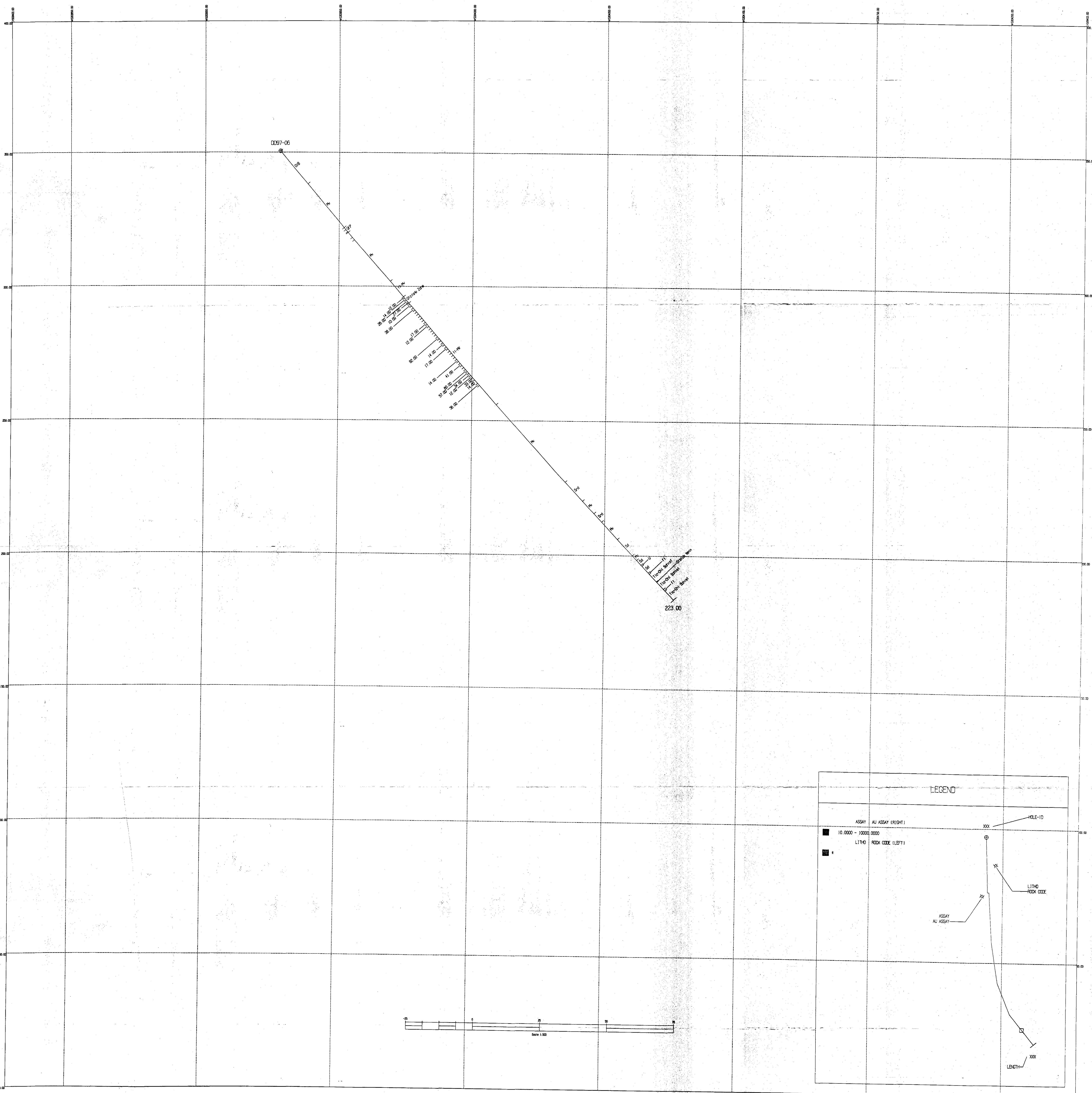


FIGURE #8

2.18272

Exploration Division 22 Gurdiana Road Nepean, ON K2E 8A2		WIC International Limited	
UNITS - METRES DATE: 06/02/03 TIME: 11:01:00		DOON X-SECTION	
DRAWN BY: C.J. BAKER		95+00E	



4191582501 2.18272 DOON 300

