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A Report on Gold Analysis  
of Humus Samples  
from the Red Lake Property of  
Shane Resources Ltd.

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DEC 14 1987

**MINING LANDS SECTION**

Brian C. Asbury  
Toronto, Ontario  
October 26, 1987



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        Gold in Humus, Shaft Area Grid,  
                1:2500 ... envelope

SUMMARY

Humus sampling for gold on the Shane Resources Ltd. 52-claim Red Lake property has outlined 11 significant anomalies which have been recommended for follow-up work including additional sampling, prospecting and drilling.

### THE PROPERTY

Shane Resources Ltd. has a 100% interest in 52 mining claims in Ball and Todd townships near Red Lake, Ontario including claims KRL 448434 to 448437, KRL 448439, KRL 775338, KRL 793736 to 793754, KRL 827859 to 827854, KRL 828045 to 828054 and KRL 8929.

The property is easily accessible by boat from Red Lake about 25 km to the east. (refer to location plan in envelope)

### PREVIOUS WORK

In 1934-35 a 200 foot shaft and some drifting by West Red Lake Gold Mines Limited on claim KRL 448437 tested a quartz vein on the 200 foot level and outlined 222 feet of 0.40 oz/ton gold across an average of 42 inches. Intense prospecting appears to have been occurring in the general area at the time. Little other work is reported until 1958 when some drilling was done in the general vicinity of the shaft claims with reported gold values. Overgrown trenches are commonly found on the property apparently dating from the 1930's.

At least 9 gold occurrences are indicated on the property on government geological maps as well as several old drill hole locations for which detailed information is scarce.

Shane Resources began an exploration program in the area in July 1986 with reconnaissance geochem sampling and prospecting. VLF and magnetometer surveys were done in March 1987 and more sampling, mapping and prospecting was done in July and August 1987 as well as drill-testing of the Shaft Vein in September 1987.

### GEOLOGY

The property is located in the Red Lake archean greenstone belt which is about 48 km by 25 km and made up of mafic to felsic rocks, clastic sedimentary rocks all of which have been intruded by intermediate to felsive rocks.

Locally the property is underlain by east-west trending felsic to ultramafic rocks with intrusives of quartz porphyry and granodiorite. Serpentinized mafic to ultramafic intrusives dominate the western half of the property while the eastern half is made up of felsic and mafic volcanics with quartz porphyry and granodiorite intrusives.

The Shaft Vein is a quartz-filled fracture or shear in carbonated greenstone in contact with felsic porphyry and it strike about N10W.

## SAMPLING PROGRAM

A total of 1823 humus samples were taken between September 1986 and September 1987 in three phases of sampling.

In September 1986 an orientation survey was done on the Shaft Area Grid where selected areas were sampled at 25m intervals along 50m spaced lines. The results showed that humus sampling for gold was a useful technique.

In July 1987 a total of 1652 humus samples were taken at 25m intervals along the 100m spaced lines that cover the entire property as well as completion of sampling of the Shaft Area grid. Certain other areas of the property were sampled along 50m pace-and-compass lines.

Finally in September 1987 49 additional humus samples were taken from anomalous areas indicated by the July sampling.

Humus was chosen as a sample medium as it is the most consistently available sample on the property. Inconsistent or absent B and C soil horizons made soil sampling impractical.

A handful of humus was collected at each station in a Kraft sample bag. Approximately 50-90 samples could be collected per day per sampler. Periodically the samples were shipped to X-Ray Assay Laboratories Ltd. in Toronto for analysis by neutron activation. Values were reported for 16 elements; Au, Cr, Fe, Co, Zn, As, Se, Br, Mo, Ag, Sb, Ba, Ta, W, Th and U; but only the gold values have been plotted.

## RESULTS

### Orientation Survey

The initial sampling of portions of the Shaft Area grid indicated the usefulness of humus sampling in exploration. Values ranged from 5 to 220 ppb gold and values greater than 25 ppb were considered as anomalous.

Anomalies were associated with the #3 Vein area about 500m east of the shaft and with a 40m x 100m area near L1+00N, 0+75E which is southeast along strike from the #2 Vein area.

The latter anomaly is considered significant as grab samples from granodiorite-hosted quartz veins in the area ranged from 6 to 125 g/t gold (0.18 to 3.56 oz/ton). A blanket of glacial till

estimated to be 1-4m thick covers most of the anomalous area.

The Shaft Vein, explored by 1934-35 underground drifting, projects to surface in the lake preventing testing by humus sampling. It's northward projected extension onto land near 4+50N, 3+25W is not associated with anomalous gold in humus although a further 150m north-northwest is the beginning of a significant anomaly (confirmed by later regional sampling) that may be related to a Shaft Vein type structure.

The results of the orientation survey encouraged the completion of the Shaft Grid sampling and sampling of the main grid covering the entire property.

#### Shaft Grid Anomalies

##### Anomaly SG1

A cluster of values ranging from 25 to 220 ppb gold defines a strong anomaly about 150m x 60m centred about L1+00, 0+50E and abutting against the lakeshore. It is underlain by granodiorite usually with traces of disseminated pyrite. Several old pits, apparently unreported work from 1934-5, were found but in general the area is till-covered. Grab samples of quartz vein in granodiorite ran 6.1 g/t (0.18 oz/ton) at L1+00N, 1+00E and 125 g/t (3.56 oz/ton) gold at 1+20N, 0+60E.

Lack of additional outcrop makes this area a prime target for drill-testing. Detailed humus sampling and prospecting is recommended across the lake on claim KRL 828043 to test for an extension of this anomaly across the lake.

##### Anomaly SG2

A broad anomaly, approximately 100m x 150m, is defined by 25 to 42 ppb values centred about 2+25N, 0+75E. An area of low ground and swamp separates this anomaly from SG1 so there may be an association between them. The area is underlain by a complex felsic-mafic contact with some sheared and pyritized mafic flows at 2+00N, 0+85W.

The eastern portion of this anomaly, covered by swamp and low ground will require drilling to test. Trenching and prospecting

should be done on the western area of the anomaly.

#### Anomaly SG3

A broad anomaly about 75m x 200m trending north-south is defined in the area of 2+50N to 4+50N, 2+25E to 3+25E. It may include 2 subparallel zones. An extension of this anomaly is possible to the north where values pick up at 5+00N. This area straddles east-west trending geology ranging from granodiorite to a series of felsic and mafic volcanic zones.

Old drill casings at 4+45N, 2+70E and 2+55N, 2+75E bear westward and missed the best area of the anomaly.

The primary target for drill-testing should be near 2+50N, 3+00E.

#### Anomaly SG4

This anomaly at 3+50N, 1+25E (45 ppb) trends NNW with values of 25 to 33 ppb. It overlies an area of no outcrop but is interpreted to be granodiorite. The significance of the granodiorite-hosted SG1 anomaly upgrades this one despite it being primarily defined by a single sample. Detailed humus sampling is recommended for this area.

#### Miscellaneous Anomalies

An area from 4+50N to 5+00N and 1+50W to 0+50W has 4 samples of 35 ppb or greater. It is a complex area of interbanded felsic and mafic volcanics, often showing carbonate alteration, lying at the northern limit of the granodiorite intrusive. Further sampling is recommended for this area.

Several 34-37 ppb values along Line 6+50N from 3+00W to 5+00W are associated with an anomaly outlined by the main grid sampling.



### Main Grid Anomalies

In general the western half of the property, dominated by serpentized mafic to ultramafic intrusives, has a lower background of gold in humus than the eastern half which is dominated by felsic to mafic volcanics.

#### Anomaly MG1

A major WSW-trending anomaly is centred on claim KRL 8929 extending from 5E, 5+25S to 8E, 4+00S with gold values up to 400 ppb but generally 25 to 60 ppb. It is underlain predominantly by mafic volcanics, often with strong carbonate alteration, but extends to the northeast over felsic volcanics. It is quite probable that it is continuous with anomalous values on the south end of Ward Island about 250m to the west which is an area of well-developed quartz stockwork in carbonitized mafic volcanics.

This area should be tested by drilling.

#### Anomaly MG2

A strong 100m x 50m anomaly on claim KRL 793736 is centred about 1+50E, 8+50S and is underlain by felsic tuff. A grab sample from a 120° trending rusty shear at 1+40E, 8+05S assayed 1.85 g/t gold (0.054 oz/ton). The government map of Ball Township indicates that 2 drill holes tested this anomalous area but no details are available.

This area deserves further examination, probably by trenching and outcrop stripping. Outcrop is fairly abundant.

#### Anomaly MG3

This strongly anomalous area on the west shore of Pipestone Narrows is a cluster of 6 areas with gold in humus values from 50 to 270 ppb. The northernmost anomaly, underlain by felsic volcanics is shown on government maps as having been tested by at least 5 closely-spaced drill holes for which no details are presently available. The original choice of this area for drilling is unclear since the area is generally covered by at least 2m of clay-rich till, however the humus sampling values confirm this as a very interesting area.

A good cluster of values covers an area of 75m x 200m near L0+00, 0+50E but lies on a residual claim for which only the mineral rights under the water are held by Shane Resources Ltd. The use of lake bottom sediment sampling may be useful in outlining this and other anomalies that trend towards lake areas.

Anomaly MG4

An east-west trending anomaly about 300m x 75m at 4+00N between lines 5+50E and 8+50E overlies both felsic and mafic volcanics. Detailed prospecting is recommended for this area which includes some strongly carbonitized mafic outcrops.

Anomaly MG5

Line 7+00E from 1+25N to 2+25N is the core of an anomaly that may extend to the north towards anomaly MG4. A fence of three drill holes along L7+00E or 6+50E could test this area for gold-bearing structures. Further humus sampling and prospecting light explain the exact orientation and cause of this anomaly but otherwise the fence of drill holes is recommended.

Anomaly MG6

The anomaly on L17W, 8+50N to 9+25N is unusual in that it is an area underlain by serpentinized ultramafic rocks which generally have low gold in humus values. This anomaly is open to the east into Pipestone Bay and may extend to join the elevated gold values on the west edge of Creighton Island about 800m to the east. Further sampling and prospecting is recommended as well as consideration of lake bottom sampling.

Anomaly MG7

Values of 120 and 370 ppb gold in humus on L27W, 11+75N and 11+50N respectively are coincident with a series of old trenches referred to as the West Trench area. Detailed geological mapping in July 1987 indicated quartz stockworks in a gabbroic intrusive within ultramafics as being coincident with the gold in humus anomaly. A value of 0.14 oz/ton gold across 2m was obtained at the easternmost exposure at the edge of overburden cover. Values as high as 0.73 oz/ton were obtained from the trenches.

This anomaly was an established drill target prior to it's

confirmation by the anomalous gold values in the humus..

Miscellaneous Anomalies

Numerous single-sample anomalies occur across the property. In general values of 30 ppb or more warrant follow-up detail sampling and prospecting to confirm or deny their significance.

CONCLUSIONS

The results of the orientation survey and subsequent humus sampling of areas with known mineralization showed that gold analysis of humus samples is a useful exploration tool on the Shane Resources property. Evidence of intensive prospecting of the area in the 1930's suggests that any out-crop areas have been carefully examined and the best hope for new discoveries is by using a technique such as humus sampling that can see through some of the overburden cover.

The recommended follow-up work of additional sampling, prospecting and drilling of the anomalous areas will be required to prove the value of humus sampling for new discoveries.

*Brian C. Ashby*



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GEOLOGICAL REPORT  
SHANE RESOURCES LTD.  
RED LAKE, ONTARIO

**RECEIVED**

DEC 14 1987

**MINING LANDS SECTION**

August 20, 1987  
Toronto, Ontario

Geology By:  
W. Rainboth



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- Geological Map 1:5000 - In Pocket
- Fig. 1 - Gold Horizon in General Trend
- Fig. 2 - Northwest Trenched Area

## INTRODUCTION

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At the request of B. Asbury, consulting geologist for Shane Resources Ltd., geological mapping was conducted on the company's Red Lake property. The property consists of 52 claims on Ball and Todd townships about 20 miles by boat from the town of Red Lake, Ontario. Claim numbers are:

KRL 8929 (Patented)  
448434-437 inclusive  
448439  
775338  
793736-754 inclusive  
827859-874 inclusive  
828045-054 inclusive

The purpose of the work was to geologize the property stressing the economic potential of that part of the property outside the main shaft area. The main shaft area has been investigated in detail by B. Asbury and drilling is planned there shortly.

Mapping was done from July 14 to August 5, 1987 on a scale of 1:5000, controlled by picket lines cut at 100 meter intervals. Simultaneous with the geologic work, a geochemical survey of humus sampling was done by Dan Patrie who also assisted with some of the geological survey.

## SUMMARY AND RECOMMENDATIONS

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Geological mapping was conducted on the Shane Resources Ltd. West Red Lake property. The shaft area was not included, as it was investigated separately by B. Asbury.

The most significant economic feature recognized, appears to be an area in the centre of the property about 2000 meters wide (E-W) with outcrops displaying varying degrees of carbonatization. Near the south boundary of the property the carbonatized area flares off the claim group to the east and west along a regional gold horizon (Fig. 1), and includes a potential zone on the property about 200 meters wide where an assay of 0.55 oz/ton gold was obtained from an outcrop of a quartz stockwork in highly carbonatized andesite. The sample was a bulk grab sample of quartz material only. This is a good drilling situation, requiring about 300 meters for a cross section. There are other areas of carbonatized outcrop that may also contain gold. It is planned by B. Asbury to sample them in the near future while he is on the property for the up-coming drilling in the shaft area.

Detailed geochemical work is recommended southeast of a gold showing located in the extreme northwest section of the property. The zone appears to be open to the southeast as the last sample before extending into overburden averaged 0.14 oz/ton gold across 2 meters. If this zone can be extended by geochemistry, drilling would be justified.

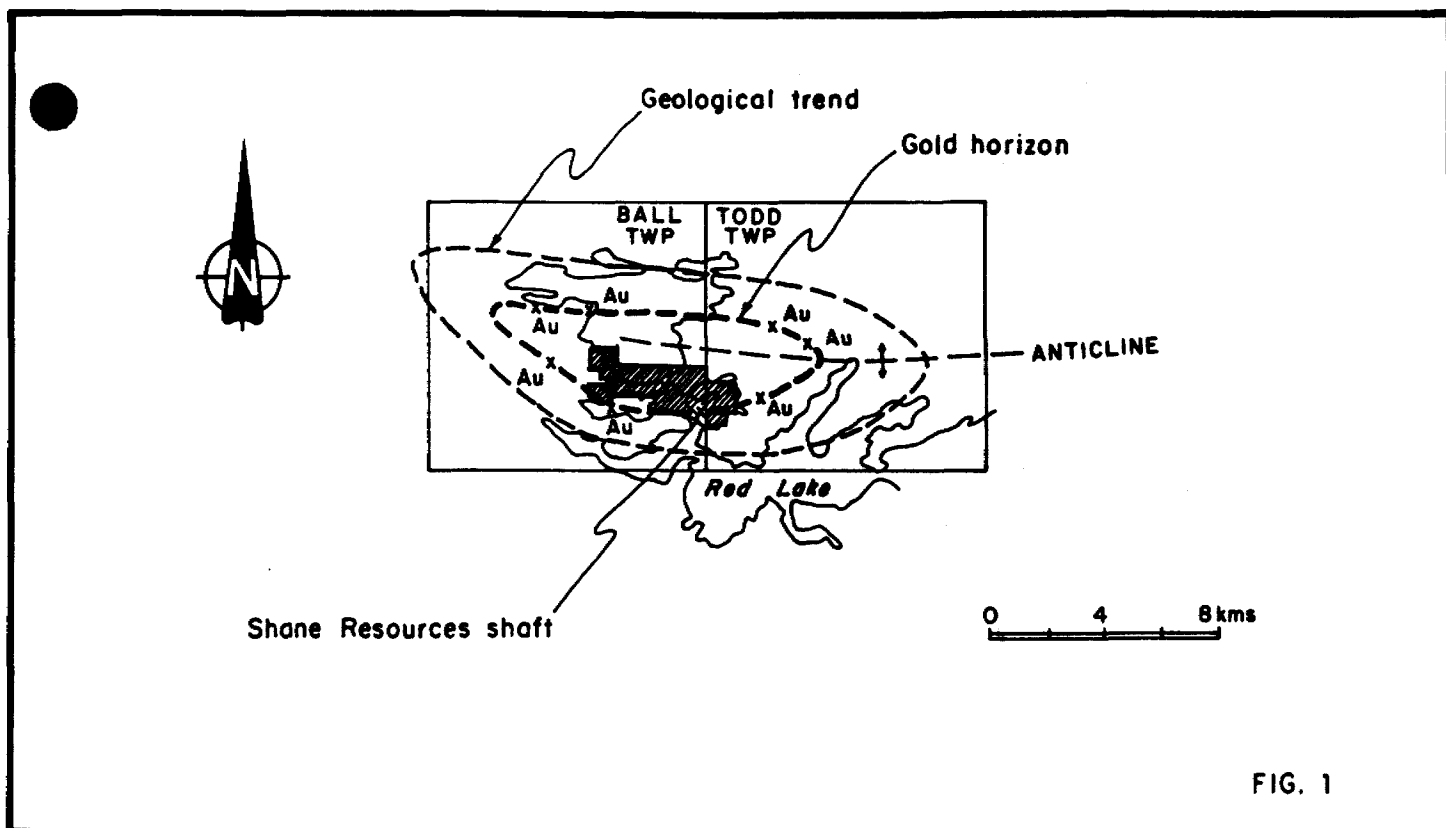


FIG. 1

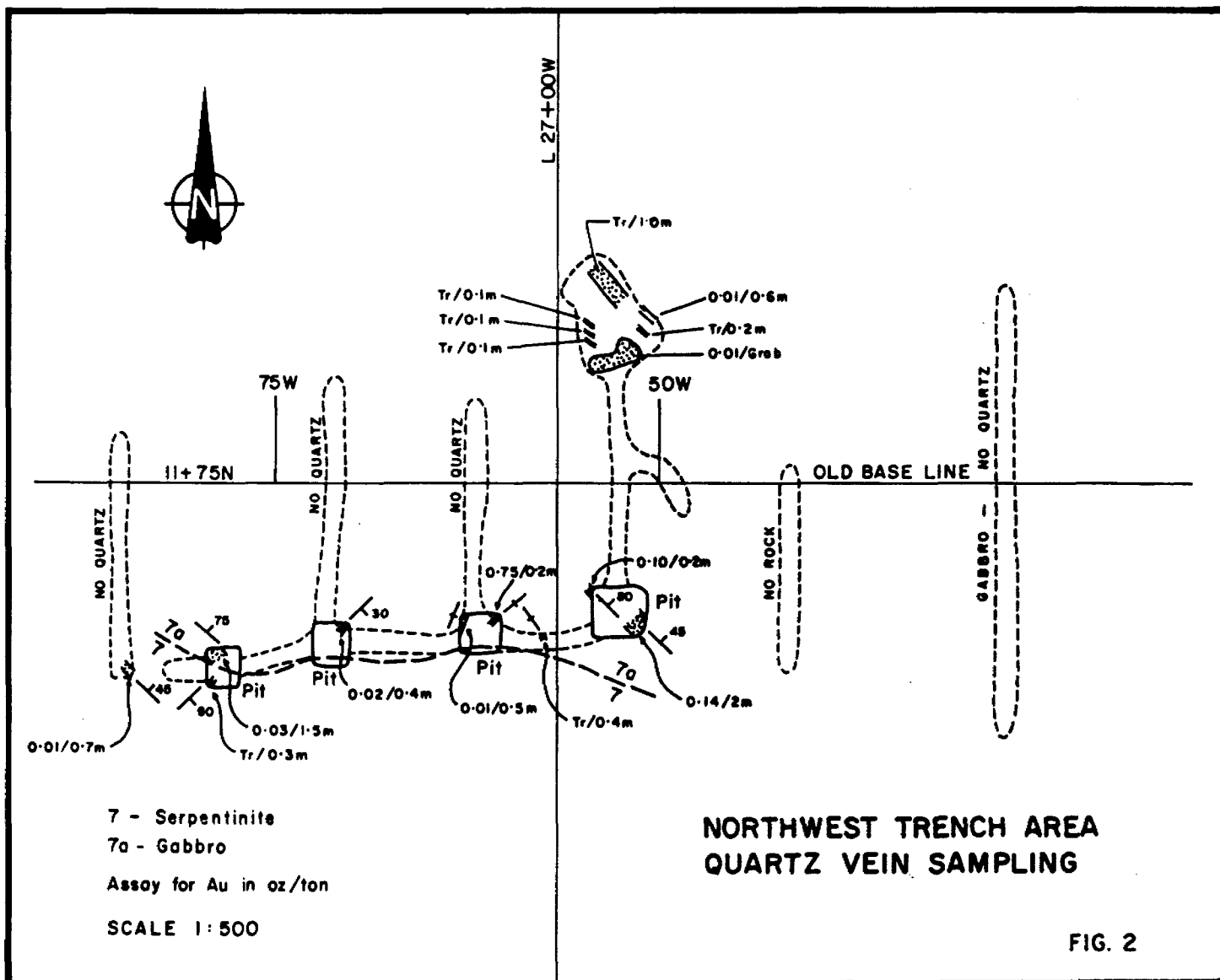


FIG. 2



PREVIOUS WORK

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Commencing in the 1930's, activity was intense in the vicinity of the shaft area where a reported 222 foot zone averaged 0.40 oz/ton gold over an average width of 42 inches. Because of easy access and a high percentage of rock exposure, intense prospecting was done on the entire property as evidenced by numerous old pits and trenches found throughout the property. Diamond drilling was also extensive, particularly in the southern part of the property. Locations of holes on the present map were taken from OGS maps, and it is likely that much more drilling was done than indicated.

Work by Shane during 1986 and early 1987, included rock and soil sampling by B. Asbury mainly in the shaft area, and detailed coverage of the entire property by ground magnetometer and VLF-EM surveys contracted to Walker Exploration Ltd. The geophysical maps were utilized during the present geological work, but final geophysical interpretation is pending.

## GENERAL GEOLOGY

---

The property is located within the west part of the Red Lake Archean greenstone belt. Rocks include felsic to basic metavolcanics and sedimentary units intruded by large ultrabasic masses and smaller felsic intrusives. The shaft area gold occurrence is located in a gold horizon that occurs in a domal structure about 10 miles long and 4 miles wide (Fig. 1). All of the known major gold occurrences in the West Red Lake area occur in this horizon.

TABLE OF FORMATIONS

---

ULTRA MAFIC INTRUSIVE ROCKS

- Pyroxenite, peridotite, gabbro

FELSIC INTRUSIVE ROCKS

- Granodiorite

SEDIMENTARY ROCKS - CHEMICAL

- Chert-magnetite, chert-sulphides, chert-carbonate

SEDIMENTARY ROCKS - CLASTIC

FELSIC VOLCANIC ROCKS

- Flows, tuffs, breccias - Rhyolites, sodic & rhyolites

INTERMEDIATE VOLCANIC ROCKS

- Tuffs, flows - Andesites, dacites

MAFIC VOLCANIC ROCKS

- Flows, tuffs, breccias - Andesites, basalts

## ROCK DESCRIPTIONS

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MAFIC VOLCANIC ROCKS - Approximately 20 per cent of the claim group is underlain by mafic volcanic rocks mainly as dark green massive flows. Pillowed lava occurs at the southeast boundary, striking E-W with tops facing north. Local areas of breccia with minor tuff occur immediately north of the shaft area. Carbonate alteration is very strong in some andesite outcrops particularly in the areas immediately east and west of the shaft area. This could be significant as carbonate alteration is important at major gold mines in the Red Lake camp.

INTERMEDIATE VOLCANIC ROCKS - Light green andesitic rocks occur in three areas. In the extreme southeast part of the property a 75 meter wide massive flow trends N30-E across the corner of the claim group. Close to the base line between lines 5W and 8W intermediate vertical dipping tuffs occur trending slightly north of east. At the west end of the property at 5+00N near lines 21W and 22W outcrops of vertical dipping east-west trending intermediate tuffs also occur.

FELSIC VOLCANIC ROCKS - About 30 percent of the property is underlain by felsic volcanics. They are namely light grey, hard, mostly fine grained porphyritic ash flows. The rock often appears massive as bedding is not well developed. Porphyritic textures are prevalent mainly with feldspar phenocrysts developed in fine grained ash flows. Dark

grey massive rhyolites containing dark quartz eyes are common in the south central part of the property immediately east of line 0.

CLASTIC SEDIMENTARY ROCKS - OGS maps indicate clastic sedimentary rocks occurring in the southeast part of the property on the south shore of Sadler Bay in Todd township. These rocks contain a high percentage of carbonate, thus on the present map are included with the chemical sedimentary rocks.

CHEMICAL SEDIMENTARY ROCKS - A band of chemical sediments about 500 meters wide is located in the southeast section of the property trending N-60E. It consists mainly of chert-carbonate including a 100 meter bed of chert-magnetite iron formation containing local concentration of massive pyrite and pyrrhotite as in a trench near line 17E at 11+00S. At 2+00N near line 11W a large xenolith (about 100 meters wide) of mafic volcanics within serpentinite contains three iron formation bands, one of which has bands of massive pyrite and pyrrhotite in a large pit. A few other outcrops of chemical sedimentary rocks occur in the northwest part of the property between L22W and L23W.

FELSIC INTRUSIVE ROCKS - Two small granodiorite plugs were found on the property. One was mapped in the southeast section extending into the shaft area mapped by B. Asbury. The other at the north end of L20W contained eight old trenches. The rock is reddish, massive, fine grained, relatively unaltered and contains scattered quartz

stringers. At 12+50W and 8+25N a quartz stringer assayed 0.13 oz/ton gold, and the pyritized wallrock assayed 0.06 oz/ton gold.

ULTRA MAFIC INTRUSIVE ROCKS - About 40 percent of the rock on the property is serpentinite, pyroxenite and peridotite occurring in the north and northwest section of the property. The rock is usually massive, dark green magnetite, and in a few places chrysotile asbestos seams were found. From line 8W to line 6E the rocks are rich in carbonate, which may be of economic significance as carbonate alteration is associated with major gold deposits in the Red Lake camp.

A small gabbro intrusive occurs in the extreme northwest section of the property. It contains a series of disoriented quartz stringers on which extensive trenching was done probably during the 1930's. Detail sampling was done as part of the present survey (see Fig. 2). Results indicate possible extension of gold mineralization (0.14 oz/ton) across 2 meters may continue to the southeast under overburden.

## STRUCTURE

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Geological mapping did not indicate the presence of any major economic structures. The formational trend in the southeast section changes gently to the ENE from EW in the southwest section, and is located on the south limb of a major anticlinal feature (Fig. 1). The shaft area's mineralized zones appear to be controlled by northwest trending cross fractures, but in the area mapped no similar structures were observed although they may exist in covered areas and could be recognized in the interpretation of recent ground magnetometer and/or VLF surveys. A geochemical anomaly coinciding with a geophysically interpreted fracture, shear or fault would be a favourable drill target.

## MINERALIZATION

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Gold is the mineral of present interest. Minor base metal occurrences are indicated on OGS maps, but none have any apparent economic significance and will not be discussed.

Of prime interest is the gold potential in the shaft area. It is well documented and drilling is planned shortly under the supervision of B. Asbury who has studied the area in detail. To date the main zone contains a length of 222 feet averaging 0.40 oz/ton gold across 42 metres. It is a sulphide-rich quartz vein in a cross fracture in highly carbonatized volcanics.

Since the 1930's numerous gold occurrences have been reported on the property. All of these were examined, and some sampled. Three have gold in sufficient amounts to justify comment.

1. A granodiorite mass centred at 8+50N on line 20W, was interpreted from recent ground magnetometer work to be larger than indicated by rock exposure. Eight old trenches were located. In one, a narrow quartz stringer assayed 0.13 oz/ton gold, and adjoining pyritized wall rock assayed 0.06 oz/ton gold. In the area exposed, there is not sufficient quartz veining or alteration present to warrant immediate follow-up, unless high values are obtained in the recent geochemical survey.



2. In the extreme northwest section of the property, extensive old trenching has exposed a quartz stockwork in a gabbroic intrusive. In 1986 B. Asbury obtained values of 0.09 and 0.08 oz/ton gold in grab samples. As part of the present programme the showing was sampled in more detail, (Fig. 2) indicating the best gold values are in the southeast area of trenching. The highest assay was >25,000 ppb (>0.73 oz/ton). The last value before disappearing southeast under overburden was 0.14 oz/ton gold across 2 meters. It is not known if the zone has been drilled. The southeast extension of the trenching should be re-examined to look for evidence of old drilling and at the same time detailed geochemical sampling may extend the zone for a test by drilling.

3. An assay of 0.55 oz/ton gold was obtained from a grab sample of quartz stringers on a highly carbonatized andesite located on the lakeshore on the south section of the claim group at 7+50S on line 1E. Another sample of the same material assayed a trace in gold, as did two samples of the carbonatized rock. About 75 meters north from the shore to an island, similar carbonatized rock and quartz stringers were also sampled. Neither the quartz nor the carbonatized rock assayed above a trace. Separating the quartz from the carbonate for assaying is a common practice in the Red Lake area, because large carbonate zones were found to host quartz bearing gold ore bodies. Applying a similar theory to the Shane property, it appears that a potential carbonatized zone about 200 meters wide containing gold bearing quartz stringers occurs from 6+00S to 8+00S on line 1E. This presents an excellent drill target. The potential of

the zone is also enhanced by the recent geophysical surveys. An EW trending magnetic low and a VLF conductor both coincide with the zone, suggesting a mineralized shear or fracture zone having undergone hydrothermal destruction of magnetite.

Many smaller carbonatized zones were located by the shoreline geological mapping indicating a carbonatized area about 2000 meters wide (EW) from line 8W to line 12E. At the south claim boundary the carbonatized area flares further east and west along the regional gold horizon (Fig. 1) and contains the outcrop where the 0.55 oz/ton gold assay was obtained. B. Asbury plans sampling some of these zones during the upcoming shaft area drilling programme.

ECONOMIC POTENTIAL

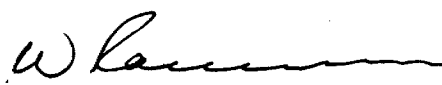
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At present the focus is on the shaft area, where drilling is planned shortly, and is separate from the area investigated for this report.

The most significant potential of the present work appears to be in a possible 200 meter wide carbonatized zone containing gold bearing quartz stringers located between 6+00S and 8+00S on line 1E. This zone occurs within the regional gold horizon (Fig. 1), and should be drilled. About 300 meters of drilling is required for a cross section of the zone.

In the extreme northwest section of the property extensive old trenching exposed a quartz stockwork in gabbroic rock and contains gold values that appear open to the southeast. The last section before disappearing under overburden assayed 0.14 oz/ton gold across 2 meters. Alteration is not strong but drilling would be justified if detailed geochemical sampling can extend the zone.

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August 20, 1987

  
W. E. Rainboth  
June 63. 1071

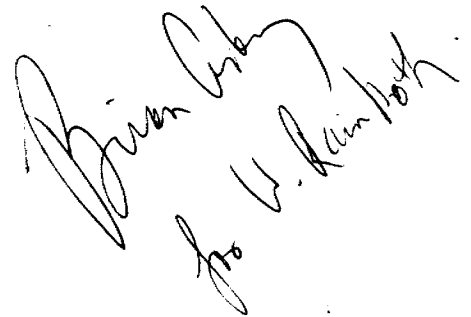
REFERENCES

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- OGS - Ball Township - Preliminary Map - P792 - 1972
- Todd Township - Preliminary Map - P1052 - 1972
- Ball Township - Map 2265 - 1975
- Todd Township - Map 2406 - 1978

Shane Resources Ltd.

- B. Asbury - August 1986 - Property Examination
- September 1986 - Geology Report
- May 1987 - Rock Samples



*Brian C. Asbury*  
*pro W. Kimpton*

BRIAN C. ASBURY  
GEOLOGIST  
SHANE RESOURCES LTD.



TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) GEOLOGICAL
Township or Area BALL AND TODD TWS.
Claim Holder(s) SHANE RESOURCES LTD,
600-128 4th Ave. S., Saskatoon, Sask
Survey Company
Author of Report W. RAINBOTH, P. Eng.
Address of Author TORONTO, ONTARIO
Covering Dates of Survey JULY 11, 1987 to Aug 20, 1987
Total Miles of Line Cut used previous grid.

MINING CLAIMS TRAVERSED
List numerically
KRL 775338
KRL 793736 to 738 incl.
KLL 793742 to 745 incl.
KRL 793747 to 754 incl.
KRL 827859 to 872 incl.
KRL 827874
KLL 828045
KRL 828047-048 incl.
KRL 828050-54 incl.
TOTAL CLAIMS 39

SPECIAL PROVISIONS CREDITS REQUESTED
Geophysical
-Electromagnetic
-Magnetometer
-Radiometric
-Other
Geological 20
Geochemical

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer Electromagnetic Radiometric
(enter days per claim)

DATE: Oct 26/87 SIGNATURE: Brian C. Osberg
Author of Report or Agent

Res. Geol. Qualifications 2-2054

Previous Surveys
Table with columns: File No., Type, Date, Claim Holder

OFFICE USE ONLY

If space insufficient, attach list

**GEOPHYSICAL TECHNICAL DATA**

GROUND SURVEYS – If more than one survey, specify data for each type of survey

Number of Stations \_\_\_\_\_ Number of Readings \_\_\_\_\_  
Station interval \_\_\_\_\_ Line spacing \_\_\_\_\_  
Profile scale \_\_\_\_\_  
Contour interval \_\_\_\_\_

**MAGNETIC**

Instrument \_\_\_\_\_  
Accuracy – Scale constant \_\_\_\_\_  
Diurnal correction method \_\_\_\_\_  
Base Station check-in interval (hours) \_\_\_\_\_  
Base Station location and value \_\_\_\_\_  
\_\_\_\_\_

**ELECTROMAGNETIC**

Instrument \_\_\_\_\_  
Coil configuration \_\_\_\_\_  
Coil separation \_\_\_\_\_  
Accuracy \_\_\_\_\_  
Method:  Fixed transmitter  Shoot back  In line  Parallel line  
Frequency \_\_\_\_\_  
(specify V.L.F. station)  
Parameters measured \_\_\_\_\_

**GRAVITY**

Instrument \_\_\_\_\_  
Scale constant \_\_\_\_\_  
Corrections made \_\_\_\_\_  
\_\_\_\_\_

Base station value and location \_\_\_\_\_  
\_\_\_\_\_

Elevation accuracy \_\_\_\_\_

**INDUCED POLARIZATION  
RESISTIVITY**

Instrument \_\_\_\_\_

Method  Time Domain  Frequency Domain

Parameters – On time \_\_\_\_\_ Frequency \_\_\_\_\_  
– Off time \_\_\_\_\_ Range \_\_\_\_\_  
– Delay time \_\_\_\_\_  
– Integration time \_\_\_\_\_

Power \_\_\_\_\_  
Electrode array \_\_\_\_\_  
Electrode spacing \_\_\_\_\_  
Type of electrode \_\_\_\_\_

SELF POTENTIAL

Instrument \_\_\_\_\_ Range \_\_\_\_\_

Survey Method \_\_\_\_\_

Corrections made \_\_\_\_\_

RADIOMETRIC

Instrument \_\_\_\_\_

Values measured \_\_\_\_\_

Energy windows (levels) \_\_\_\_\_

Height of instrument \_\_\_\_\_ Background Count \_\_\_\_\_

Size of detector \_\_\_\_\_

Overburden \_\_\_\_\_

(type, depth - include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey \_\_\_\_\_

Instrument \_\_\_\_\_

Accuracy \_\_\_\_\_

Parameters measured \_\_\_\_\_

Additional information (for understanding results) \_\_\_\_\_

AIRBORNE SURVEYS

Type of survey(s) \_\_\_\_\_

Instrument(s) \_\_\_\_\_

(specify for each type of survey)

Accuracy \_\_\_\_\_

(specify for each type of survey)

Aircraft used \_\_\_\_\_

Sensor altitude \_\_\_\_\_

Navigation and flight path recovery method \_\_\_\_\_

Aircraft altitude \_\_\_\_\_ Line Spacing \_\_\_\_\_

Miles flown over total area \_\_\_\_\_ Over claims only \_\_\_\_\_

GEOCHEMICAL SURVEY - PROCEDURE RECORD



Numbers of claims from which samples taken \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Total Number of Samples \_\_\_\_\_

Type of Sample \_\_\_\_\_  
(Nature of Material)

Average Sample Weight \_\_\_\_\_

Method of Collection \_\_\_\_\_

Soil Horizon Sampled \_\_\_\_\_

Horizon Development \_\_\_\_\_

Sample Depth \_\_\_\_\_

Terrain \_\_\_\_\_

Drainage Development \_\_\_\_\_

Estimated Range of Overburden Thickness \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

General \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

ANALYTICAL METHODS

Values expressed in: per cent   
p. p. m.   
p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, -(circle)

Others \_\_\_\_\_

Field Analysis (\_\_\_\_\_ tests)

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

Field Laboratory Analysis

No. (\_\_\_\_\_ tests)

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

Commercial Laboratory (\_\_\_\_\_ tests)

Name of Laboratory \_\_\_\_\_

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

General \_\_\_\_\_

\_\_\_\_\_

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\_\_\_\_\_





TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT  
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT  
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) GEOCHEMICAL ~~PHYSICAL~~ SURVEY  
Township or Area TODD AND BALL TPS.  
Claim Holder(s) SHAWNE RESOURCES LTD.  
601-125 4<sup>TH</sup> AVE S, STASHTON, SASIC.  
Survey Company \_\_\_\_\_  
Author of Report BRIAN C. ASBURY  
Address of Author Box 456 STATION K TORONTO M4P 2G9  
Covering Dates of Survey SEPT. 26 1986 to OCTOBER 26, 1987  
(linecutting to office)  
Total Miles of Line Cut used previous grid

**MINING CLAIMS TRAVERSED**  
List numerically

KRL 448434 to 437 incl.  
(prefix) (number)  
KRL 448439  
KRL 775338  
KRL 793736 to 738 incl.  
KRL 793742 to 745 incl.  
KRL 793747 to 754 incl.  
KRL 827859 to 872 incl.  
KRL 827874  
KRL 828045  
KRL 828047-048 incl.  
KRL 828050-054 incl.

If space insufficient, attach list

<u>SPECIAL PROVISIONS CREDITS REQUESTED</u>	<u>DAYS per claim</u>
ENTER 40 days (includes line cutting) for first survey.	Geophysical -Electromagnetic _____ -Magnetometer _____ -Radiometric _____ -Other _____
ENTER 20 days for each additional survey using same grid.	Geological _____ Geochemical <u>20</u>

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer \_\_\_\_\_ Electromagnetic \_\_\_\_\_ Radiometric \_\_\_\_\_  
(enter days per claim)

DATE: Oct 26, 1987 SIGNATURE: Brian C. Asbury  
Author of Report or Agent

Res. Geol. \_\_\_\_\_ Qualifications 2.2054

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 44

OFFICE USE ONLY

# GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS – If more than one survey, specify data for each type of survey

Number of Stations \_\_\_\_\_ Number of Readings \_\_\_\_\_

Station interval \_\_\_\_\_ Line spacing \_\_\_\_\_

Profile scale \_\_\_\_\_

Contour interval \_\_\_\_\_

**MAGNETIC**

Instrument \_\_\_\_\_

Accuracy – Scale constant \_\_\_\_\_

Diurnal correction method \_\_\_\_\_

Base Station check-in interval (hours) \_\_\_\_\_

Base Station location and value \_\_\_\_\_

**ELECTROMAGNETIC**

Instrument \_\_\_\_\_

Coil configuration \_\_\_\_\_

Coil separation \_\_\_\_\_

Accuracy \_\_\_\_\_

Method:  Fixed transmitter  Shoot back  In line  Parallel line

Frequency \_\_\_\_\_  
(specify V.L.F. station)

Parameters measured \_\_\_\_\_

**GRAVITY**

Instrument \_\_\_\_\_

Scale constant \_\_\_\_\_

Corrections made \_\_\_\_\_

Base station value and location \_\_\_\_\_

Elevation accuracy \_\_\_\_\_

**INDUCED POLARIZATION**

**RESISTIVITY**

Instrument \_\_\_\_\_

Method  Time Domain  Frequency Domain

Parameters – On time \_\_\_\_\_ Frequency \_\_\_\_\_

– Off time \_\_\_\_\_ Range \_\_\_\_\_

– Delay time \_\_\_\_\_

– Integration time \_\_\_\_\_

Power \_\_\_\_\_

Electrode array \_\_\_\_\_

Electrode spacing \_\_\_\_\_

Type of electrode \_\_\_\_\_

SELF POTENTIAL

Instrument \_\_\_\_\_ Range \_\_\_\_\_

Survey Method \_\_\_\_\_

Corrections made \_\_\_\_\_

RADIOMETRIC

Instrument \_\_\_\_\_

Values measured \_\_\_\_\_

Energy windows (levels) \_\_\_\_\_

Height of instrument \_\_\_\_\_ Background Count \_\_\_\_\_

Size of detector \_\_\_\_\_

Overburden \_\_\_\_\_

(type, depth – include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey \_\_\_\_\_

Instrument \_\_\_\_\_

Accuracy \_\_\_\_\_

Parameters measured \_\_\_\_\_

Additional information (for understanding results) \_\_\_\_\_

AIRBORNE SURVEYS

Type of survey(s) \_\_\_\_\_

Instrument(s) \_\_\_\_\_

(specify for each type of survey)

Accuracy \_\_\_\_\_

(specify for each type of survey)

Aircraft used \_\_\_\_\_

Sensor altitude \_\_\_\_\_

Navigation and flight path recovery method \_\_\_\_\_

Aircraft altitude \_\_\_\_\_ Line Spacing \_\_\_\_\_

Miles flown over total area \_\_\_\_\_ Over claims only \_\_\_\_\_

GEOCHEMICAL SURVEY - PROCEDURE RECORD



Numbers of claims from which samples taken KRL 448434 to 437, 448439, 775338, 793736-38,  
793742-45, 793747-54, 827859-72, 827874, 828045, 828047-48, 828050-54  
8929

Total Number of Samples 1823

Type of Sample HUMUS  
(Nature of Material)

Average Sample Weight 400 g

Method of Collection by hand.

Soil Horizon Sampled \_\_\_\_\_

Horizon Development HUMUS LEVEL

Sample Depth 0-5 cm.

Terrain forested areas, up to 20 m elevation  
changes, some low marshy ground.

Drainage Development good.

Estimated Range of Overburden Thickness 0-4 m.

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis \_\_\_\_\_

total sample was ashed

General \_\_\_\_\_

ANALYTICAL METHODS

Values expressed in: per cent   
p. p. m.   
p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, (circle)

Others Au

Field Analysis (\_\_\_\_\_ tests)

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

Field Laboratory Analysis

No. (\_\_\_\_\_ tests)

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

Commercial Laboratory (1823 tests)

Name of Laboratory X-RAY ASSAY LAB, TDANTO

Extraction Method \_\_\_\_\_

Analytical Method NEUTRON ACTIVATION

Reagents Used \_\_\_\_\_

General \_\_\_\_\_



Ontario

Ministry of  
Northern Development  
and Mines

February 18, 1988

Your File: 108-87  
Our file: 2.10645

Mining Recorder  
Ministry of Northern Development and Mines  
P.O. Box 324  
Red Lake, Ontario  
POV 2M0

ONTARIO GEOLOGICAL SURVEY  
ASSESSMENT FILES  
RESEARCH OFFICE

FEB 22 1988

RECEIVED

Dear Madam:

RE: Notice of Intent dated February 2, 1988  
Geological, Geochemical Survey and Data for Assaying  
submitted on Mining Claims KRL 775338 et al  
in the Townships of Ball and Todd

The assessment work credits, as listed with the above-mentioned  
Notice of Intent, have been approved as of the above date.

Please inform the recorded holder of these mining claims and so  
indicate on your records.

Yours sincerely,

W.R. Cowan, Manager  
Mining Lands Section  
Mines and Minerals Division

Whitney Block, Room 6610  
Queen's Park  
Toronto, Ontario  
M7A 1W3

Telephone: (416) 965-4888

DK:pl

Enclosure: Technical Assessment Work Credits

cc: Mr. G.H. Ferguson  
Mining & Lands Commissioner  
Toronto, Ontario

Resident Geologist  
Red Lake, Ontario

Shane Resources Ltd.  
Suite 600  
128 4th Ave. South  
Saskatoon, Saskatchewan  
S7K 1M8



Recorded Holder  
**Shane Resources Ltd.**

Township of ~~XXXX~~  
**Ball and Todd**

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<b>Geophysical</b> Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days  Section 77 (19) See "Mining Claims Assessed" column Geological <u>15</u> days Geochemical _____ days  Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/>  <input checked="" type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	KRL-775338 793736 to 38 inclusive 793742 to 45 inclusive 793747 to 54 inclusive 827859 to 72 inclusive 827874 828045 828047 to 54 inclusive

Special credits under section 77 (16) for the following mining claims

[Empty box for special credits]

No credits have been allowed for the following mining claims

not sufficiently covered by the survey       insufficient technical data filed

KRL-793739 to 41 inclusive  
 793746  
 827873  
 828046

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.



Recorded Holder  
Shane Resources Ltd.

Township ~~XXXXX~~  
Ball and Todd

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic _____ days	
Magnetometer _____ days	KRL-775338
Radiometric _____ days	793736 to 38 inclusive
Induced polarization _____ days	793742 to 45 inclusive
Other _____ days	793747 to 54 inclusive
	827859-60
	827862 to 72 inclusive
	827874
	828050 to 53 inclusive
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ days	
Geochemical _____ 15 _____ days	
Man days <input type="checkbox"/> Airborne <input type="checkbox"/>	
Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Credits have been reduced because of partial coverage of claims.	
<input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

[Empty box for special credits]

No credits have been allowed for the following mining claims

not sufficiently covered by the survey       insufficient technical data filed

KRL-793739 to 41 inclusive  
793746  
827861  
827873  
828045 to 49 inclusive  
828054

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.



Recorded Holder  
Shane Resources Ltd.

Township ~~XXXXX~~  
Ball and Todd

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<b>Geophysical</b> Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input type="checkbox"/> Ground <input type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	<p><b>\$20,531.70 SPENT ON ASSAYING SAMPLES TAKEN FROM MINING CLAIMS:</b></p> <p><b>KRL-775338</b>            793736 to 38 inclusive            793742 to 45 inclusive            793747 to 54 inclusive            827859-60            827862 to 72 inclusive            827874            828050 to 53 inclusive</p> <p><b>1,368 DAYS CREDIT ALLOWED WHICH MAY BE GROUPED IN ACCORDANCE WITH SECTION 76(6) OF THE MINING ACT R.S.O. 1980.</b></p>

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey       insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 80.



# XRAL

## X-RAY ASSAY LABORATORIES INC.

1885 LESLIE STREET • DON MILLS ONTARIO M3B 3J4 • (416) 445-5755

INVOICE TO:

COPY TO:

SHANE RESOURCES LIMITED  
ATTN: BRIAN ASBURY  
BOX 456, STATION "K"  
TORONTO, ONTARIO  
MAP 209

SUBMITTED TO:

SHANE RESOURCES LIMITED  
ATTN: BRIAN ASBURY  
BOX 456, STATION "K"  
TORONTO, ONTARIO  
MAP 209

CUSTOMER NO. 1350

INVOICE NO.	INVOICE DATE	WORK ORDER NO.	DATE SUBMITTED
1344	19-AUG-87	28533	21-JUL-87

C.O.D.

CLIENTS P.O. NO.	CLIENT PROJECT NO.	TYPE OF SAMPLES SUBMITTED
		HUMUS

NO. OF PKGS	SHIPPED VIA	WAY BILL NO.	SHIPPED FROM
3 BOXES	SELF		

QUANTITY	DESCRIPTION METHOD	XRAL CODE	UNIT COST	AMOUNT
1 471	HUMUS - BIOGEOCHEMISTRY	13, 20, 2, 0, 0, 0	10.00	4710.00
2 471	HUMUS, DRYING & BLENDING	99, 2, 0, 0, 0, 0	1.30	612.30
			***** ADVANCED PAYMENT RECEIVED *****	\$5299.70 *****
SUB-TOTAL				\$ 5322.30

X-RAY ASSAY LABORATORIES LIMITED  
1885 LESLIE STREET  
DON MILLS, ONT. M3B 3J4  
(416) 445-5755

*PAID*  
*Dec 8/87*  
**PAID DEC - 7 1987**

MISC CHARGES			

TRIPPLICATE COPY

TOTAL \$ 5322.30

*diffusion det 122...*

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VOICE TO:

BRIAN C. ASSBURY  
BOX 456, STATION K  
TORONTO, ONTARIO  
M4P 2G9

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*Sept 25/87  
other copies to  
Shaw for payment*

ADMITTED TO:

BRIAN C. ASSBURY  
BOX 456, STATION K  
TORONTO, ONTARIO  
M4P 2G9

CUSTOMER NO. 40

INVOICE NO	INVOICE DATE	WORK ORDER NO	DATE SUBMITTED
1459	28-AUG-87	28667	29-JUL-87

TERMS NET 30 DAYS  
1.5% PER MONTH INTEREST ON ACCOUNT OVER 30 DAYS

INSTRUMENT P.O. NO.	CLIENT PROJECT NO.	TYPE OF SAMPLES SUBMITTED
		HUMUS

NO. OF PAGES	SHIPPED VIA	WAY BILL NO.	SHIPPED FROM
	SMALL FRY	43704	

QUANTITY	DESCRIPTION METHOD	XRAL CODE	UNIT COST	AMOUNT
1 796	HUMUS - BIOGEOCHEMISTRY	13.20, 2, 0, 0, 0	10.00	7960.00
2 796	HUMUS, DRYING & BLENDING	99.2, 0, 0, 0, 0	1.30	1034.80
<b>SUB-TOTAL</b>				<b>\$ 8994.80</b>

**X-RAY ASSAY LABORATORIES LIMITED**  
1885 LESLIE STREET  
DON MILLS, ONT. M3B 3J4  
(416) 445-5755

*Dec 8/87*  
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MISC CHARGES	SHIPPING CHARGES	CUSTOMER CHARGES	TOTAL
			<b>\$ 8994.80</b>

TRIPPLICATE COPY

**TOTAL**

**\$ 8994.80**

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BOX 456, STATION K  
TORONTO, ONTARIO  
M4P 2B9

CUSTOMER NO. 40

INVOICE NO.	INVOICE DATE	WORK ORDER NO.	DATE SUBMITTED
1570	11-Sep-87	28731	4-Aug-87

TERMS NET 30 DAYS  
1.5% PER MONTH INTEREST ON ACCOUNT OVER 30 DAYS

INSTR. P.O. NO.	CLIENT PROJECT NO.	TYPE OF SAMPLES SUBMITTED
		HUMUS

NO. OF PAGES	SHIPPED VIA	WAY BILL NO.	SHIPPED FROM
3	SMALL FRY		

QUANTITY	DESCRIPTION METHOD	XRAL CODE	UNIT COST	AMOUNT
1. 107	HUMUS - BIOGEOCHEMISTRY	13,20, 2, 0, 0, 0	10.00	1070.00
2. 107	HUMUS, DRYING & BLENDING	99, 2, 0, 0, 0, 0	1.30	139.10
1	MISSING SAMPLES			
SUB-TOTAL				\$ 1209.10

X-RAY ASSAY LABORATORIES LIMITED  
1885 LESLIE STREET  
DON MILLS, ONT. M3B 3J4  
(416) 445-5755

*Draypell*  
Dec 8/87

PAID DEC - 7 1987

MISC CHARGES				

TRIPPLICATE COPY	TOTAL	CEN	\$ 1209.10

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SUBMITTED TO:

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TORONTO, ONTARIO  
M4P 2B9

CUSTOMER NO. 40

INVOICE NO.	INVOICE DATE	WORK ORDER NO.	DATE SUBMITTED
1571	11-Sep-87	28769	7-Aug-87

TERMS

TERMS NET 30 DAYS  
1.5% PER MONTH INTEREST ON ACCOUNT OVER 30 DAYS

CLIENTS P.O. NO.	CLIENT PROJECT NO.	TYPE OF SAMPLES SUBMITTED
		HUMUS

# OF PKGS	SHIPPED VIA	WAY BILL NO.	SHIPPED FROM
4 BOXES	BPX		

QUANTITY	DESCRIPTION METHOD	XRAL CODE	UNIT COST	AMOUNT
1. 278	HUMUS - BIOGEOCHEMISTRY	13.20, 2, 0, 0, 0	10.00	2780.00
2. 278	HUMUS, DRYING & BLENDING	99. 2, 0, 0, 0, 0	1.30	361.40
8	MISSING SAMPLES			
			SUB-TOTAL	\$ 3141.40

X-RAY ASSAY LABORATORIES LIMITED  
1885 LESLIE STREET  
DON MILLS, ONT. M3B 3J4  
(416) 445-5755

*Sample*  
*Dec 8/87*  
**PAID DEC - 7 1987**

MISC. CHARGES	SHIPPING CHARGES	CUSTOM BROKERAGE	TELEX	MINIMUM CHARGES
	OTHER			SURCHARGE - PUSH SERVICE

TRIPPLICATE COPY

TOTAL IN CDN \$ 3141.40

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## X-RAY ASSAY LABORATORIES LIMITED

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INVOICE TO:

SHANE RESOURCES LIMITED  
ATTN: BRIAN ASBURY  
BOX 456, STATION "K"  
TORONTO, ONTARIO  
M4P 2G9

CUSTOMER NO. 1350

SUBMITTED TO:

SHANE RESOURCES  
ATTN: BRIAN ASBURY  
128 4TH AVENUE SOUTH, SUITE 600  
SASKATOON, SASKATCHEWAN  
S7K 1M3

INVOICE NO.	INVOICE DATE	WORK ORDER NO.	DATE SUBMITTED
2110	19-Oct-87	29476	24-Sep-87

TERMS

C. O. D.

CLIENTS P.O. NO.	CLIENT PROJECT NO.	TYPE OF SAMPLES SUBMITTED
		HUMUS

Q. OF PKGS	SHIPPED VIA	WAY BILL NO.	SHIPPED FROM
1	BPX	00025899	

QUANTITY	DESCRIPTION METHOD	XRAL CODE	UNIT COST	AMOUNT
1. 49	HUMUS - BIOGEOCHEMISTRY	13, 20, 2, 0, 0, 0	10.00	490.00
2. 49	HUMUS, DRYING & BLENDING	99, 2, 0, 0, 0, 0	1.30	63.70
			<b>SUB-TOTAL</b>	<b>\$ 553.70</b>

X-RAY ASSAY LABORATORIES LIMITED  
1885 LESLIE STREET  
DON MILLS, ONT. M3B 3J4  
(416) 445-5755

*Beaupelle*  
Dec 8/87

**PAID DEC - 7 1987**

*orig copies  
sent to Shane  
Oct 21/87*

MISC. CHARGES	SHIPPING CHARGES	CUSTOM BROKERAGE	TELER	SHIPPING CHARGES	AMOUNT
OTHER	5.00				\$ 5.00

TRIPPLICATE COPY

TOTAL IN CANADIAN FUNDS

\$ 558.70

# XRAL

# X-RAY ASSAY LABORATORIES INC.

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COPY TO

VOICE TO

SHANE RESOURCES LIMITED  
 ATTN: BRIAN ASBURY  
 BOX 456, STATION "K"  
 TORONTO, ONTARIO  
 M4P 2B9

SUBMITTED TO

SHANE RESOURCES LIMITED  
 ATTN: BRIAN ASBURY  
 BOX 456, STATION "K"  
 TORONTO, ONTARIO  
 M4P 2B9

CUSTOMER NO. 1350

INVOICE NO.	INVOICE DATE	WORK ORDER NO.	DATE SUBMITTED
29907	06-NOV-86	25437	17-OCT-86

TERMS

C. O. D.

CLIENTS P.O. NO.	CLIENT PROJECT NO.	TYPE OF SAMPLES SUBMITTED
		HUMUS

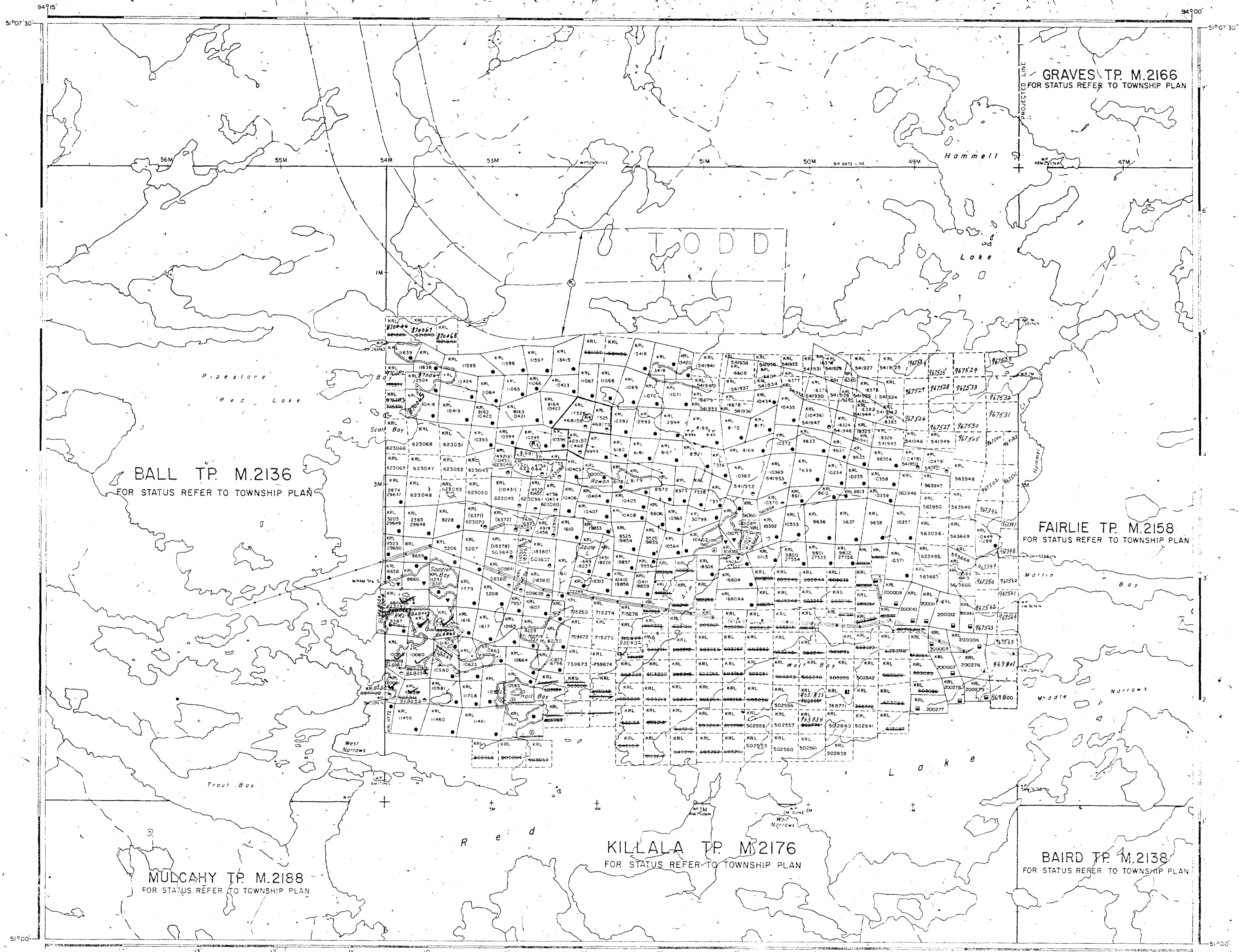
NO. OF PKGS	SHIPPED VIA	WAY BILL NO.	SHIPPED FROM
1 BOX	SELF		

QUANTITY	DESCRIPTION METHOD	XRAL CODE	UNIT COST	AMOUNT
1. 122	HUMUS - BIOGEOCHEMISTRY	13, 20, 2, 0, 0, 0	9.50	1159.00
2. 122	HUMUS, DRYING & BLENDING	99, 2, 0, 0, 0, 0	1.20	146.40
			<b>SUB-TOTAL</b>	<b>\$ 1305.40</b>

*Paid [Signature]*  
**X-RAY ASSAY LABORATORIES LIMITED**  
 1885 LESLIE STREET • DON MILLS, ONTARIO M3B 3J4

MISC. CHARGES	SHIPPING CHARGES	CUSTOM BROKERAGE	TELEX	MINIMUM CHARGES
	OTHER			SURCHARGE - RUSH SERVICE

<b>ORIGINAL INVOICE</b>	<b>TOTAL IN</b>	<b>\$ 1305.40</b>
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RED LAKE MINING DIVISION  
 NOV 18 1987  
 RED LAKE, ONTARIO

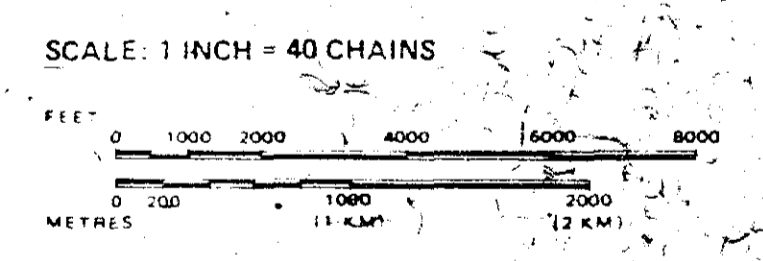
**LEGEND**

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES  
TOWNSHIP, BASE LINES, ETC.
- LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES
- LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

**DISPOSITION OF CROWN LANDS**

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	(Symbol)
SURFACE RIGHTS ONLY	(Symbol)
MINING RIGHTS ONLY	(Symbol)
LEASE, SURFACE & MINING RIGHTS	(Symbol)
SURFACE RIGHTS ONLY	(Symbol)
MINING RIGHTS ONLY	(Symbol)
LICENCE OF OCCUPATION	(Symbol)
ORDER IN COUNCIL	(Symbol)
RESERVATION	(Symbol)
CANCELLED	(Symbol)
SAND & GRAVEL	(Symbol)

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6 1913 VESTED IN ORIGINAL PATENTEES BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 340, SEC. 63, SUBSEC. 1

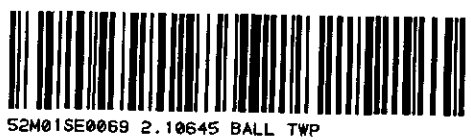


AREA  
**HAMMELL LAKE**  
 M.N.R. ADMINISTRATIVE DISTRICT  
 RED LAKE  
 MINING DIVISION  
 RED LAKE  
 LAND TITLES / REGISTRY DIVISION  
 KENORA/PATRICIA

Ministry of Land Management  
 Natural Resources Branch  
 Ontario

Date: FEBRUARY 14, 1983

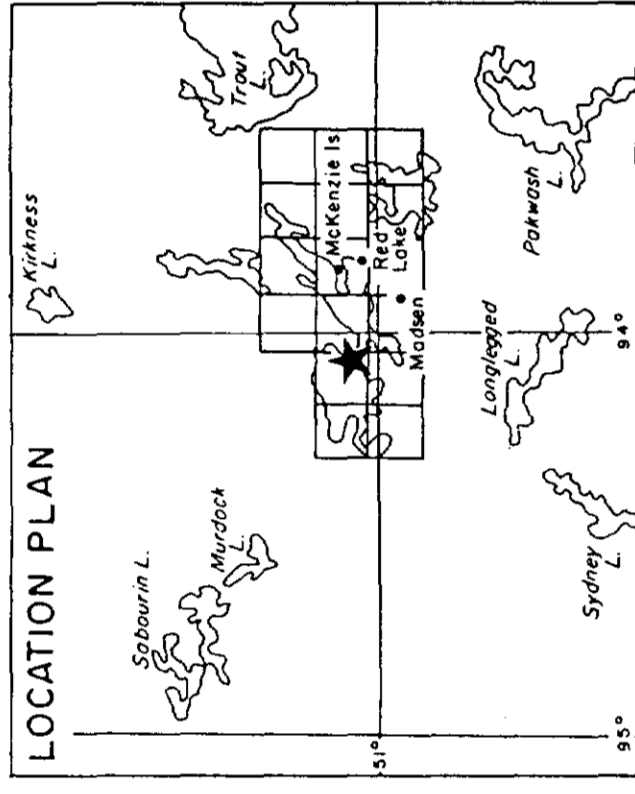
INDIAN HOUSE - LAKE G-1796



G-1789







DETAIL AREA  
(See Fig 2)

715338  
793751  
793750

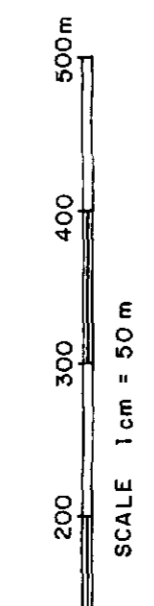
TIE LINE 10+25N

TODD TWP  
BALL TWP

TIE LINE 7+00N

BASE LINE

BASE LINE CO



LEGEND  
7 MAFIC TO ULTRAMAFIC INTRUSIVES  
7-1 Screened peridotite and pyroxenite  
7-2 Gabro  
6 FELSIC INTRUSIVES  
6-1 Granodiorite  
5 CHEMICAL SEDIMENTS  
5-1 Chert-carbonate  
5-2 Chert-magnetite  
4 CLASTIC SEDIMENTS  
4-1 FELSIC VOLCANICS  
4-2 Mainly tuff, flows, breccia, porphyry  
3 INTERMEDIATE VOLCANICS  
3-1 Mainly tuff  
2 MAFIC VOLCANICS  
2-1 Flows, pillowed, tuff, breccia

ZONE OF CARBONATIZATION

SYMBOLS

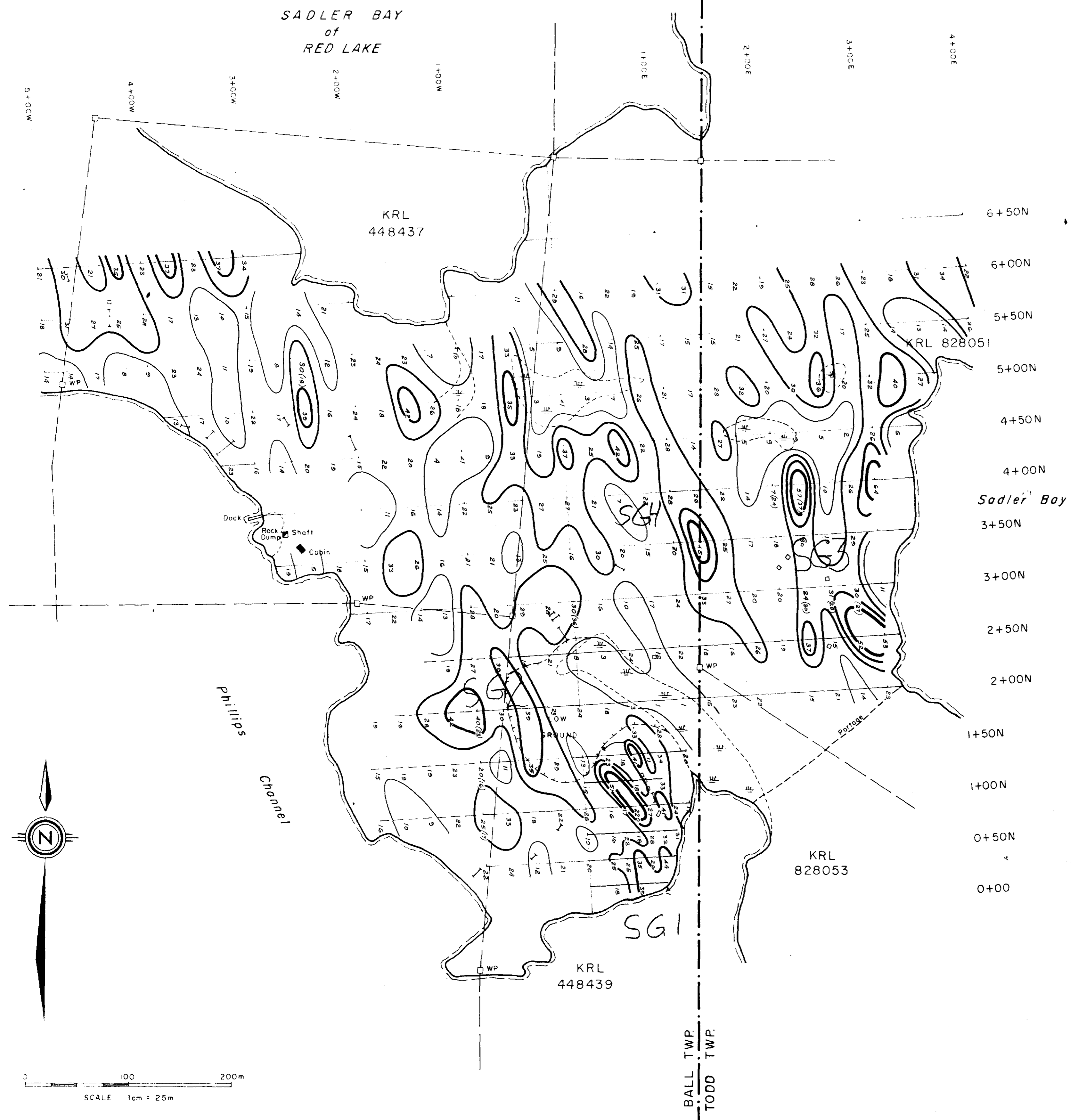
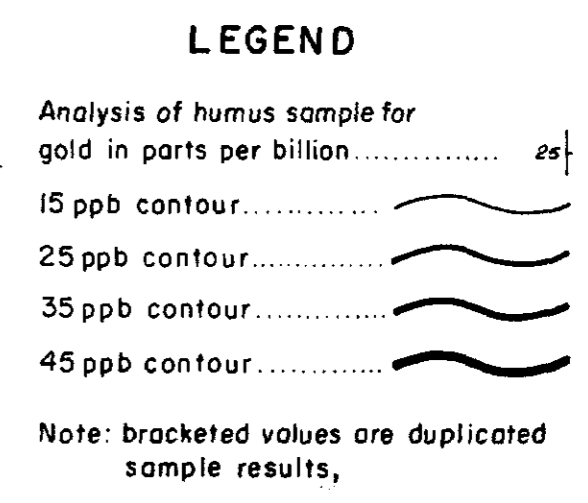
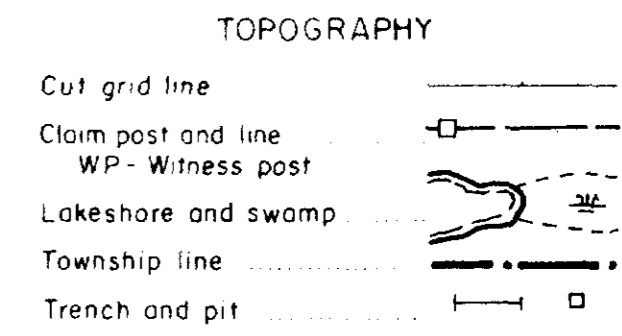
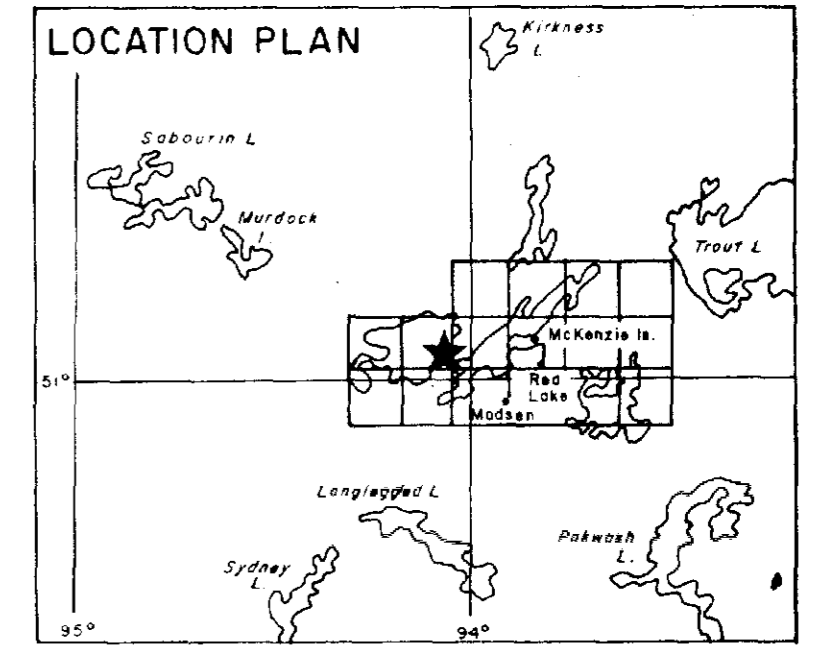
- Outcrop
- Geologic boundary
- Boundary of zone of carbonatization
- Bedding
- Foliation
- Carbonatization
- Diamond drill hole
- Trench
- PH

TOPOGRAPHY

- 5m grid line
- Contour line
- Lake/shore
- Stream
- Power line (abandoned)

SHANE RESOURCES LIMITED  
TODD AND BALL TOWNSHIPS  
Red Lake, Ontario  
GEOLOGICAL SURVEY  
Geology by: August 1987  
W. RAINBOTH Scale 1:5000





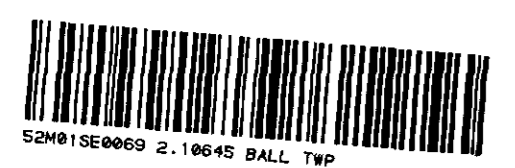
**SHANE RESOURCES LIMITED**

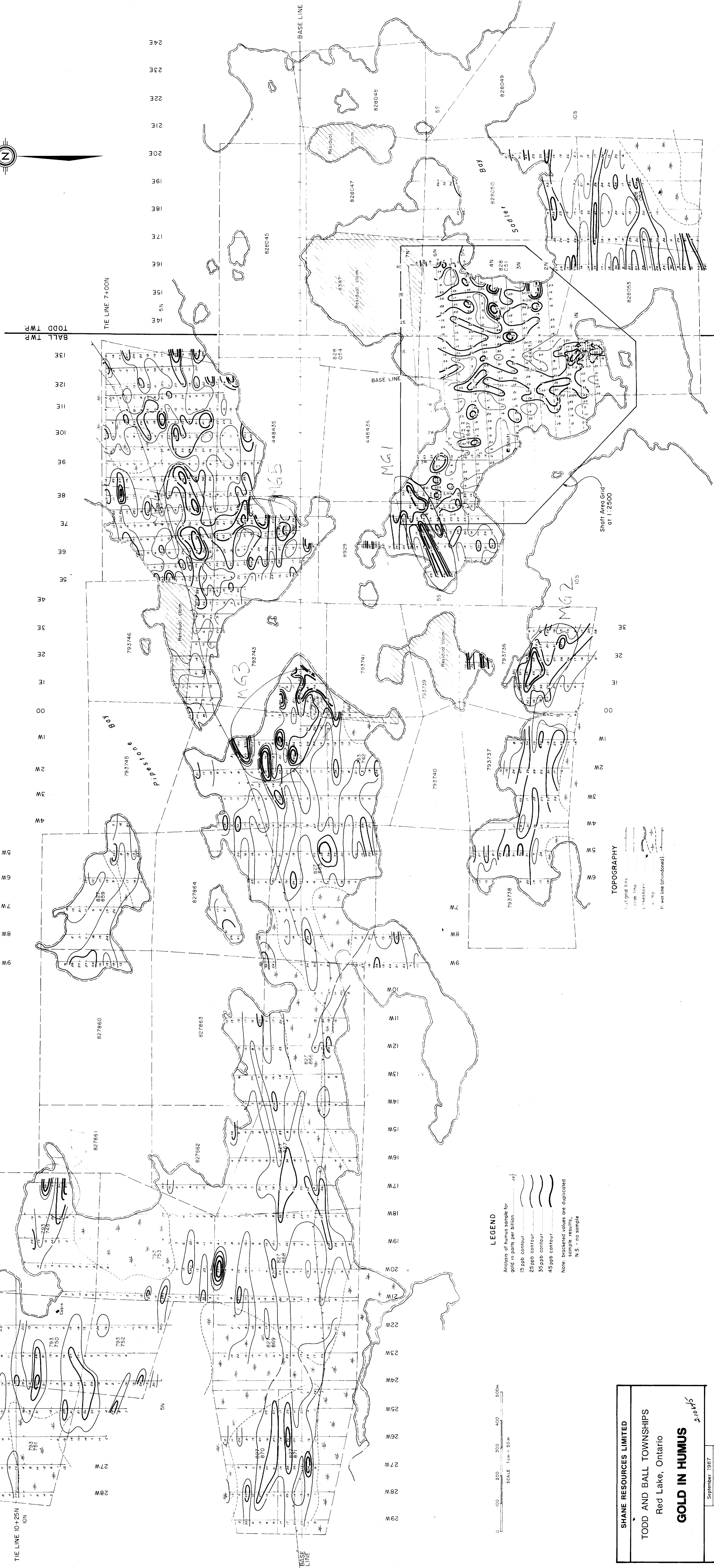
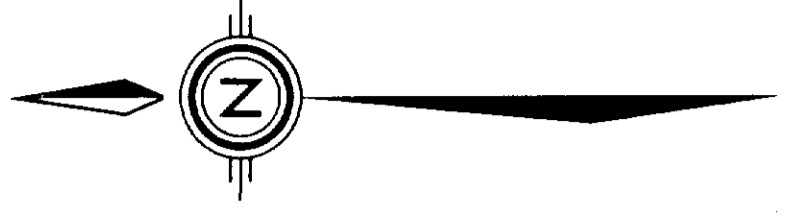
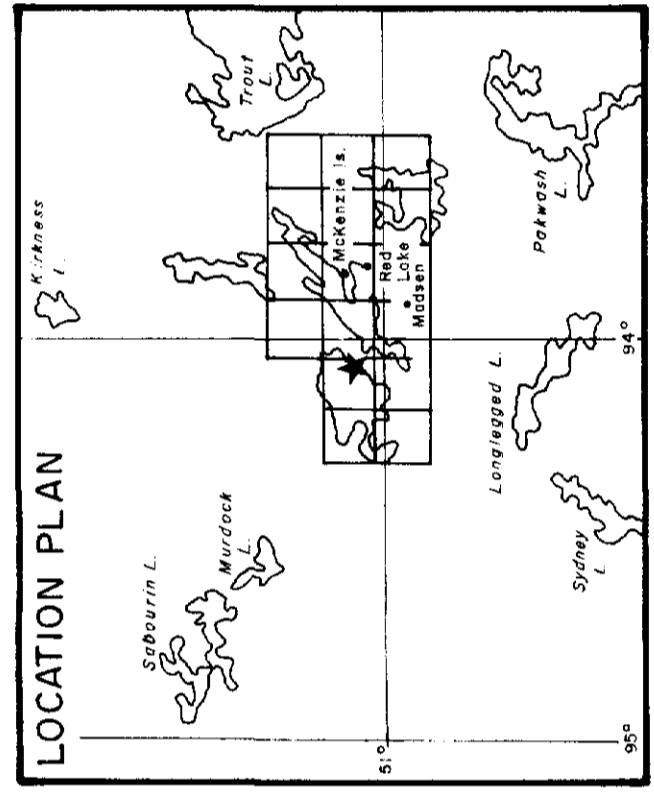
**SHAFT AREA GRID**  
**TODD AND BALL TOWNSHIPS**  
**Red Lake, Ontario**

**GOLD IN HUMUS**

October 1987  
 Scale 1:2500

2.10645





**LEGEND**

Analysis of humus sample for gold in parts per billion.....

15 ppb contour.....

20 ppb contour.....

25 ppb contour.....

35 ppb contour.....

45 ppb contour.....

Note: bracketed values are duplicated sample results.

N.S. - no sample

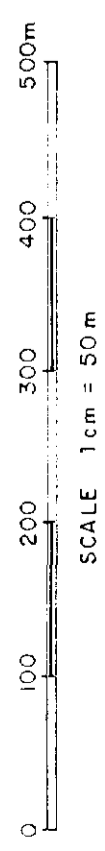
**TOPOGRAPHY**

Contour line.....

Spot line.....

Water line.....

Power line (thunderbolt).....



**SHANE RESOURCES LIMITED**

**TODD AND BALL TOWNSHIPS**

Red Lake, Ontario

**GOLD IN HUMUS**

2-10-87

September 1987

Scale 1:5000

