Nuinsco Resources Limited

Rainy River Project

WORK REPORT

1997 Reverse Circulation Drill Data

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RAINY RIVER PROJECT

1997 Reverse Circulation Drill Program

WORK REPORT - DRILL DATA

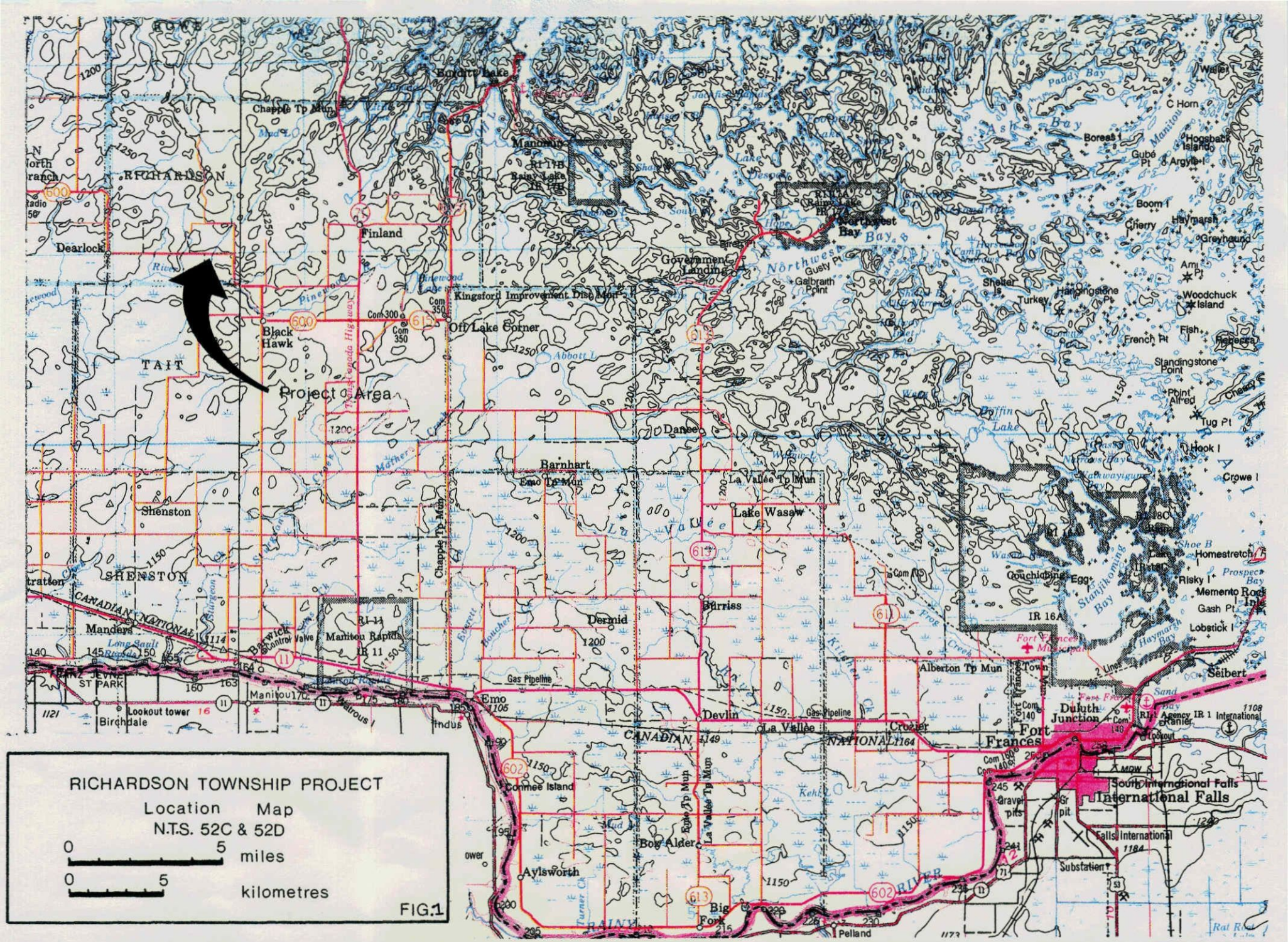
1. INTRODUCTION

From January 19th to March 22nd, 1997, Nuinsco Resources Limited ("Nuinsco") conducted an exploratory reverse circulation drilling program on a group of properties in the Rainy River district, northwestern Ontario as a follow-up to the Company's 1995/96 reverse circulation drill programs. This drill project involved both heavy mineral geochemical sampling of Quaternary glacigenic overburden (mainly till) and chip sampling of the top 1.5 m of the underlying Archean-age rock formations of the Rainy River Greenstone Belt.

Until Nuinsco's involvement most of the properties tested by drilling were previously relatively unexplored since the bedrock is covered by deep, glacial and lacustrine overburden. Interest by Nuinsco in the area began with the discovery of a strong gold grain anomaly made in 1988 by Ontario Geological Survey (Bajc, 1991a, b). This drill hole (rotasonic drill hole No. F-88-11) prompted Nuinsco to acquire a large land package of claims and optioned patents lands across the Rainy River district.

The properties targeted for reverse circulation drilling in 1997 are Crown Lands staked by the Company and patented lands held under option agreements with the local and absentee land owners. Nuinsco has staked essentially all of the Crown land in an area of the Rainy River Greenstone Belt which extends eastward from Tait Township to the Lake of the Woods, northwestern Ontario.

The terrain is flat with very few rock outcrops due to the presence of the thick Quaternary cover. The reverse circulation drill method is ideally suited to such conditions as it can quickly map out the bedrock geology and simultaneously detect any potential zones of bedrock mineralization via the ore mineral dispersal trains found in the till. One hundred and thirty six reconnaissance holes were drilled. (NR-97-321 to NR-97-454). A total of 3,814.4 metres were drilled and 525 till samples and 145 bedrock samples were collected. This work report summarizes the results of those holes which can be filed for assessment credits.


RICHARDSON TOWNSHIP PROJECT
Location Map
N.T.S. 52C & 52D
0 5 miles
0 5 kilometres
FIG.1
Project Area
RICHARDSON
TAIT
SHENSTON
Dearlock
Finland
Black Hawk
Off Lake Corner
Kingsford Improvement Dist Mun
Government Landing
Northwest Bay
Manomin
Barnhart
Emo Tp Mun
La Vallée Tp Mun
Lake Wasew
Dennie
Burriss
Devlin
Emo
Alberton Tp Mun
Fort Frances
Duluth Junction
South International Falls
International Falls
Crozier
Aylsworth
Bog Alder
Big Fork
Pelland
Connee Island
Indus
Birchdale
Manders
Manitou Rapids
Gas Pipeline
CANADIAN NATIONAL
RAINY RIVER
Chapple Tp Mun
Dancer
Seibert
Lobstick I
Crowe I
Hook I
Tug Pt
Woodchuck Island
Boreas I
Gubé Pt
Cherry
Haymarsh
Greyhound
Shelter I
Turkey
Hangingstone Pt
French Pt
Standingstone Point
Point Alfred
Egg
Couchiching
Memento Rock
Gash Pt
IR 16A
IR 11
IR 11A
IR 11B
IR 11C
IR 11D
IR 11E
IR 180
Agency IR 1
Lookout tower 16
Substation
Gravel pits
Gr pit
Falls International
Boom I
C Horn
Hoogsback Islands
Argyle I
Fish
Rebecca
Homestretch
Risky I
Prospect Bay
Shoe B
Stanjikoming Bay
Haymarsh Bay
Padd Bay
Manitou Bay
Abbott L
Puffin Lake
Galbraith Point
Gusty Pt
Shelter I
Mather Creek
Everett Creek
Boucher Creek
Frog Creek
Kehk Creek
Turner Creek
Long Sault Rapids
Barwick Control Valve
Manitou Rapids
Walrous I
Sand Bay
Rat Rock

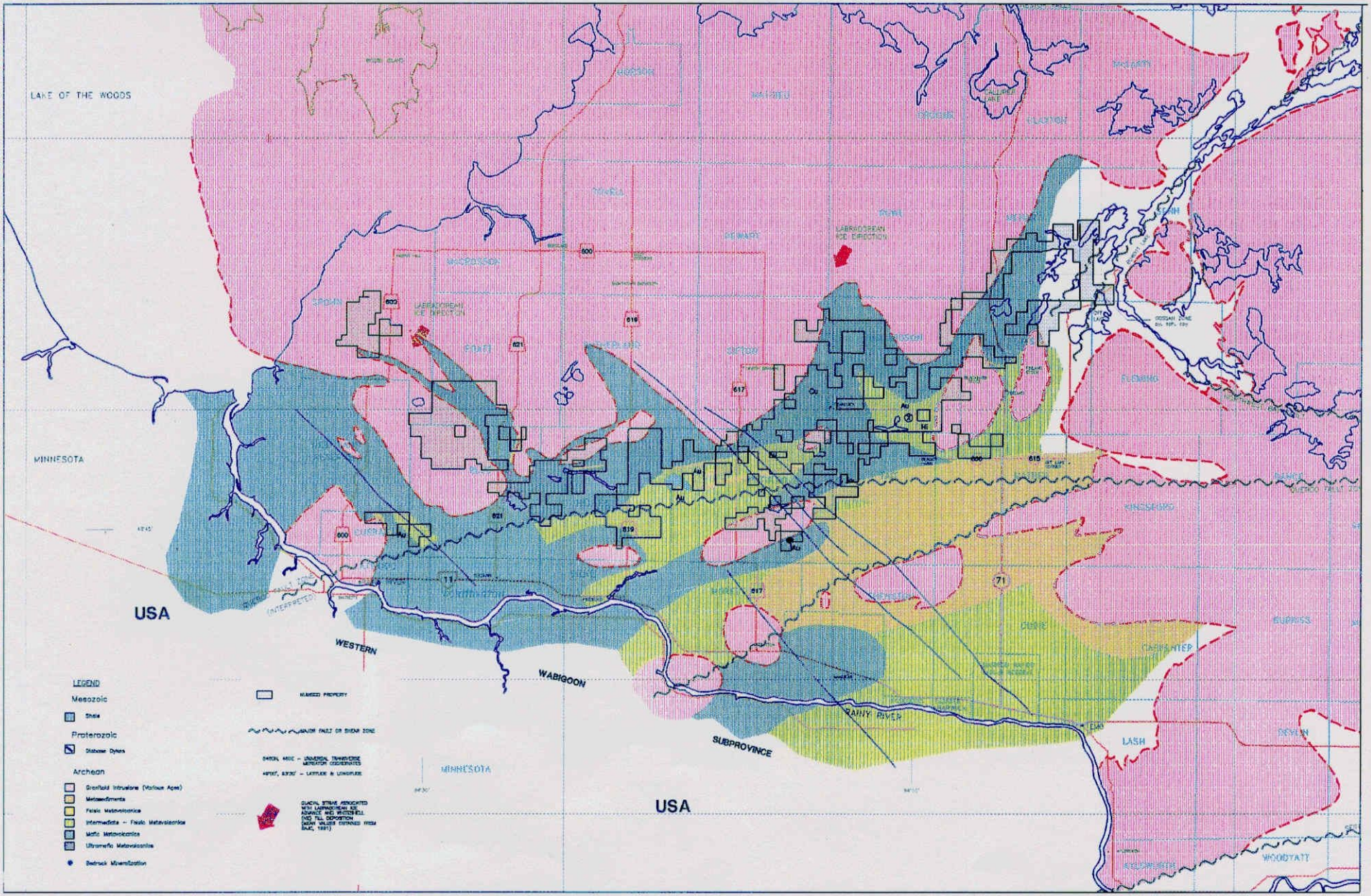


Figure 2 **Land Position Map**

2.0 LOCATION AND ACCESS

The claims and optioned patented land comprising the Rainy River project are located in NW Ontario in the MNR Administrative District of Rainy River, Kenora Mining Division (Figure 1). This area is located near both the border with Manitoba and the boundary with Minnesota. The nearest population center is Fort Frances, 50 km to the southeast. The villages of Emo and Nestor Falls are about 25 km to the south and north respectively. The properties are centered by latitude 48° 45'N to 49° 00'N and longitude 93° 46'W and 94° 36'W and lie within N.T.S. maps 52 C/13 and 52 D/16.

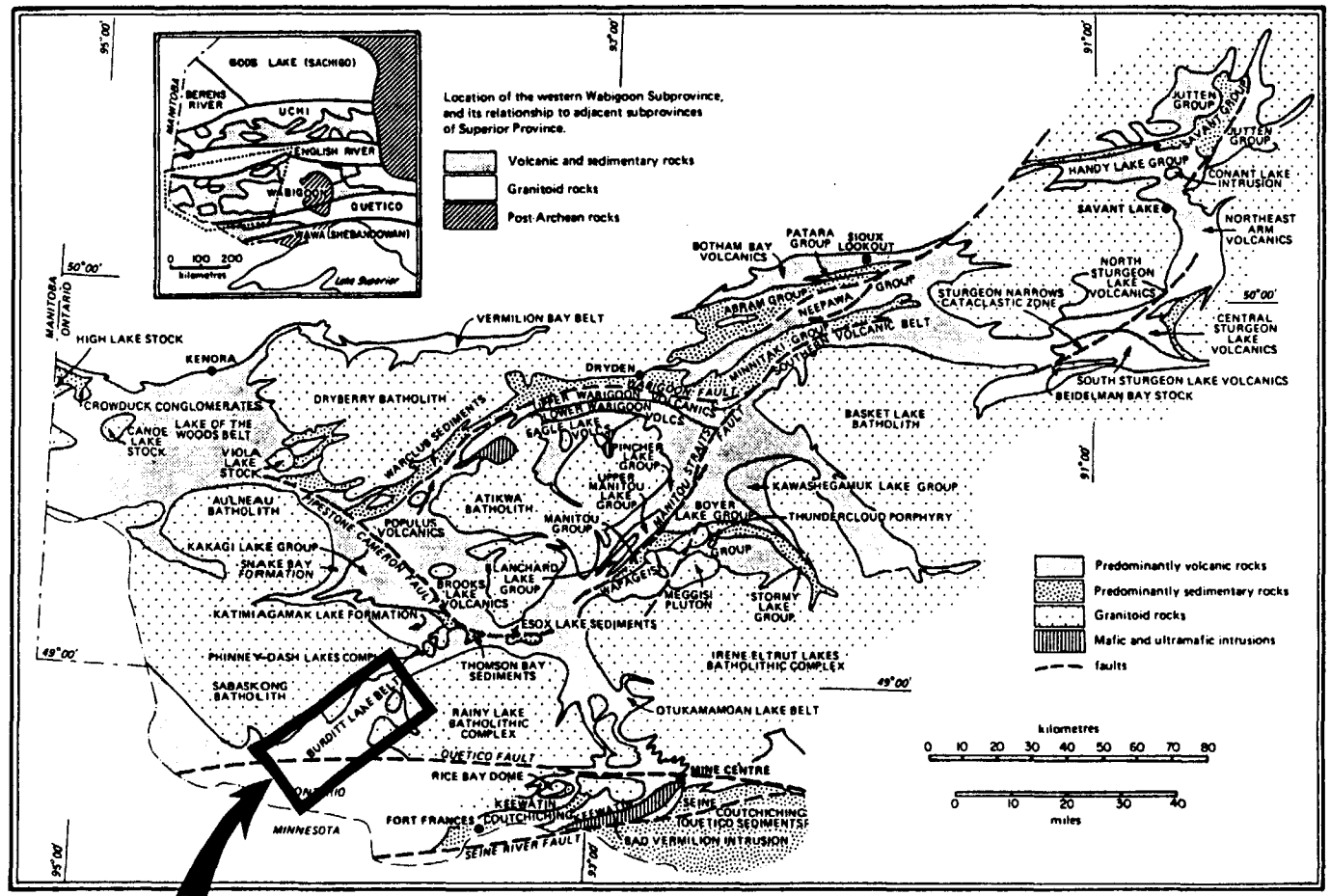
The Nuinsco Resources land position consists of a series of discontinuous blocks lying in an arcuate east-west band of some 60km length (Figure 2). The land position is located in the townships of Senn, Menary, Potts, Richardson, Tait, Sifton, Pattullo, Nelles, Blue, Pratt, Spohn, and Attwood and Curran.

Access to most of the claim groups are attained via the numerous all weather, secondary, provincial highways (gravel) and township roads which lead off of paved highways 11 and 71. These routes traverse the region and provide excellent ingress to all of the claims and patents.

3.0 PHYSIOGRAPHY

The Rainy River region is located within the Severn Upland of the Canadian Shield. Generally the Precambrian surface, and the overlying Palaeozoic and Mesozoic strata, dip at a very low angle to the southwest into the Williston Basin (Bajc, 1991). Physiographically the landscape on which the Nuinsco properties are situated can be divided into two distinct domains (Figure 3) separated by a sharp northwest-southeast trending break - the site of the Rainy Lake - Lake of the Woods Moraine. This moraine traverses Rowe, Menary, Potts, and Fleming Townships. To the north and east of the moraine, in the Beadle Lake and Off Lake-Burditt Lake areas, the Precambrian highland is only sparsely covered by glacial drift and is characterized by extensive outcrop exposure. This area has been subjected to only one of the most recent glacial advances (the Whiteshell - from the northeast) because of the elevated topography which prevented the advance of other glacial lobes from the west. Glacial drift attains significant thickness only in very local areas. It displays few signs of intense weathering (Bajc, 1991b). Relief is controlled by bedrock geology with the supracrustal sequences displaying positive relief relative to the batholithic complexes. This relief can attain 90m.

The broad lowland, reduced to a peneplain during Cretaceous time has been subject to either two or three late-Wisconsinan glacial events. In this lowland outcrop ranges from 5-40%, thick drift blankets bedrock surfaces and saprolites are commonly observed in boreholes. Topography is low and undulating, drainage is poor, and peatland is common. It is in these lowlands that the 1997 reverse circulation drill program was carried out.



RAINY RIVER DISTRICT

REGIONAL GEOLOGY
WESTERN WABIGOON SUBPROVINCE AND ITS MARGINS

Figure 3

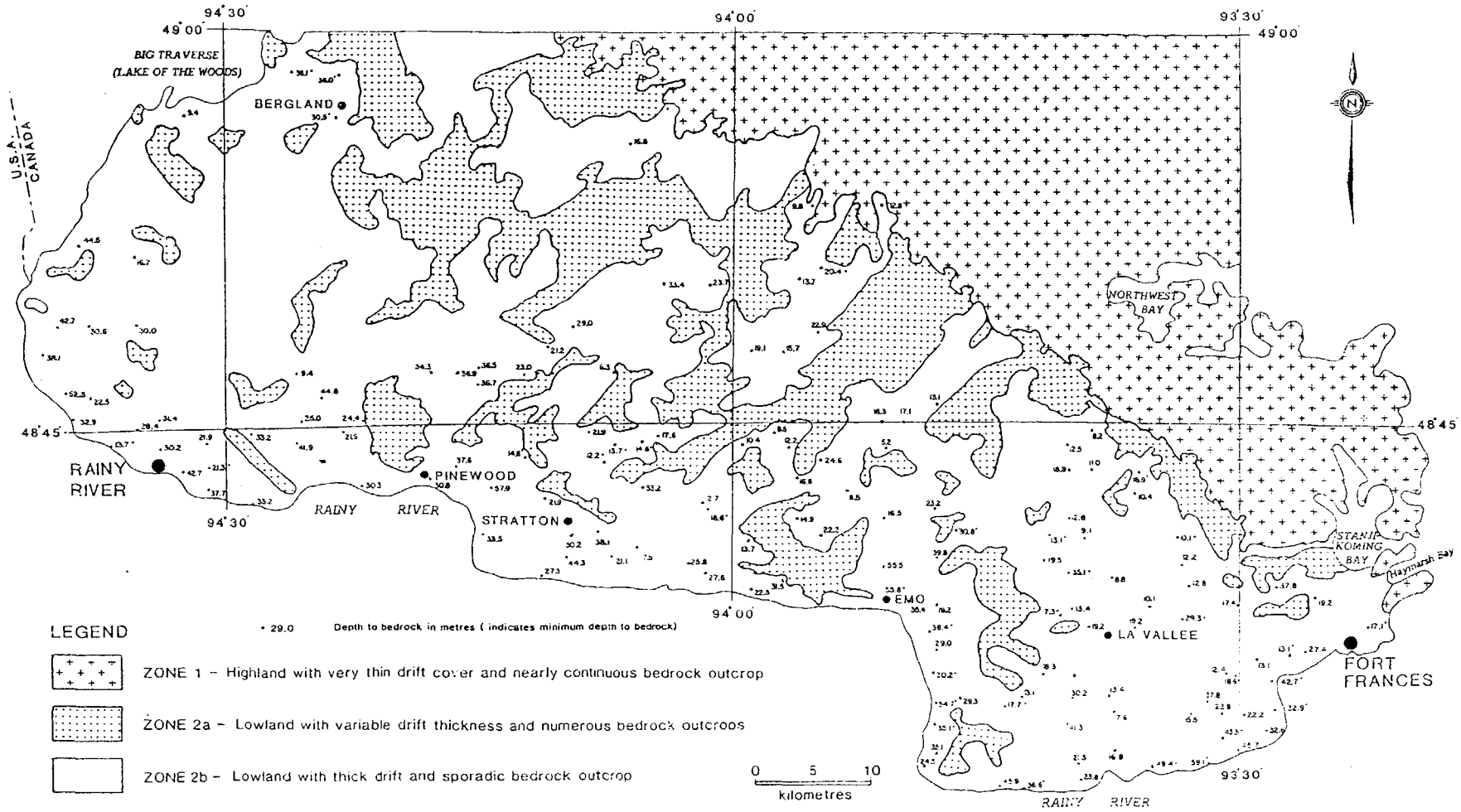


Figure 4 Physiography of the Rainy River District (Bajc, 1991)

4.0 REGIONAL GEOLOGICAL SETTING

The geological framework of the Rainy River greenstone belt is based mainly on the interpretation of aeromagnetic maps due to the paucity of outcrop data and thick overburden. Recent mapping by Johns in 1988, in conjunction with the OGS rotasonic drilling program, located only a few outcrops with a disproportionate number being on resistant, Proterozoic-age diabase dykes. The regional-scale, east-west trending dextral shear zone, the Quetico Fault, is well-known from exposures east of the project area beyond the Lake Agassiz clay belt has generally been interpreted to bend southwestward following a concordant magnetic low through the Rainy River Greenstone Belt. However, the fault is regionally discordant and could equally well be extended due west through the Richardson area where considerable magnetic disruption is evident.

Nuinsco's properties northeast of Richardson Township on the east side of the Sabaskong Batholith are beyond the clay belt and thus were not targeted for reverse circulation drilling in either of the 1995/96 or 1997 drilling programs.

Although the bedrock geology of the project area is poorly understood, the Quaternary geology has been interpreted by the 1986-88 OGS surficial mapping and rotasonic drilling programs (Bajc) and from similar programs in adjoining areas of Minnesota and Manitoba. In Late Wisconsinan time when most and perhaps all of the Quaternary sediments were deposited, the area lay on the suture zone between Labradorean and Keewatin ice domes. This resulted in deposition of a till layer of northeastern provenance which is in direct contact with bedrock and useful for sampling. This till is followed by a layer of exotic till of western provenance.

The suture zone was not stationary and meltdown of both ice masses occurred in Lake Agassiz, resulting in local repetition of till layers and interdigitation with thin to thick layers of glaciolacustrine clay, silt and sands. The eastward encroachment of both the Keewatin ice and Lake Agassiz was mediated by the low-lying topography of the Rainy River Greenstone Belt relative to the adjoining granitoid batholiths of Ontario and Minnesota.

4.1 Bedrock Geology

Nuinsco's land holdings lie in the eastern portion of the Rainy River Greenstone Belt along the western part of the Archean-age Wabigoon Subprovince of the Canadian Shield (Figure 4). The Wabigoon Subprovince is a 900 km long east-west trending belt composed of metavolcanic and subordinate metasedimentary rocks (greenstone belts) surrounded and intruded by granitoid batholiths. The western Wabigoon region consists of interconnected greenstone belts surrounding elliptical to ovoid batholiths. Each greenstone belt typically comprises several tectonically bounded assemblages consisting of komatiitic to calc-alkalic volcanic sequences surmounted by clastic and minor chemical sediments. The granitoid domes impart a synformal structural character to the supracrustal rocks and

the central axial zones of many of these synformal belts are characterized by long sinuous shear/fault zones. The larger, crustal-scale Quetico Fault in part forms the southern boundary of the Wabigoon Subprovince and in part cross-cuts both supracrustal and plutonic assemblages of the western Wabigoon region.

As mentioned previously the bedrock geology of Rainy River Greenstone Belt is poorly understood due to limited outcrop exposure and by the lack of past mineral exploration. In general, the belt is delimited by the Sabaskong Batholith in the north and the Rainy Lake Batholithic Complex in the east. A thin septum of supracrustal rocks separates the batholiths in the area of Nuinsco's northeastern properties and connects the Rainy River Greenstone Belt with the Kakagi-Rowan Lakes Greenstone Belt north of the batholiths. The Rainy River Belt continues into southeastern Manitoba and northwestern Minnesota where it is ultimately overlain by unmetamorphosed Paleozoic to Mesozoic sedimentary rocks of the Western Sedimentary Basin. Table 1 (next page) summarizes the lithological units within the project area.

The northern part of the project area is underlain by plutonic rocks of the multi-phase, pretectonic to syntectonic Sabaskong Batholith. Johns (1988) has proposed that the supracrustal rocks south of the Sabaskong Batholith consist of a "lower mafic unit" (dominantly basaltic), conformably overlain by an "upper diverse unit" comprising bedded and interdigitated mafic to intermediate debris flows and intermediate pyroclastics, together with sedimentary wacke and reworked tuff derived from intermediate volcanic detritus. Several post-tectonic stocks intrude the supracrustal rocks including the Black Hawk Stock. Northwest trending Proterozoic quartz diabase dykes of the Kenora - Fort Frances swarm cut all rock types.

Regional metamorphic grade is regarded as being generally of greenschist to low-mid amphibolite facies (although higher grades are noted by Johns in the west and Fletcher and Irvine in the south and west). Metamorphic grade, particularly adjacent to the late-post tectonic stocks may attain upper amphibolite with possible local partial remelting of the host rocks.

Structurally, the region is complex and very few of the structural elements have been solved. Evidence of stratigraphic facing comes dominantly from the presence of pillows. In the extreme north, the metavolcanic succession has been folded around the Sabaskong Batholith into the east-northeast trending Nightjar Anticline which is paired with the Slender Lake Syncline to the southeast. The Helena-Pipestone Lake Fault extends south to Dad Lake and in the north approaches the trace of the Pipestone-Cameron Fault. Continuing to the south the metavolcanic stratigraphy of the Offlake-Burditt Lake area are considered to form a southeasterly facing homoclinal sequence between the Sabaskong Batholith and the Burditt Lake Stock and the Fleming Township Tronjhemites. Farther to the west the metavolcanic-metasedimentary stratigraphy has been folded about the north-south axes of the southward plunging Deerlock Syncline which is paired with an unnamed anticline in Richardson Township. South of this area Johns (1988) has inferred the presence of a complex fold pattern, showing several anticline-syncline pairs which strike northeast curving to the east. Fletcher and Irvine (1954) infer the

Table 1

LITHOLOGIC UNITS

PHANEROZOIC

(A) Pleistocene and Recent

till, sand, gravel, clay, organic debris

------Unconformity------

PRECAMBRIAN

(B) Proterozoic

-Mafic Intrusive Rocks
-Diabase dykes

------Intrusive Contact------

(C) Archean

-Intermediate to Felsic, Intrusive Rocks

Equigranular trondhjemite, granitic dykes, equigranular monzonite and intrusive breccia

------Intrusive Contact------

-Felsic Metavolcanic Rocks

Medium grained to porphyritic rhyolite and dacite, quartz feldspar porphyry dykes

-Mafic to Intermediate Metavolcanic Rocks

Fine to medium grained basalt and andesite, gabbro, pillowed basalt, porphyritic basalt, pillowed and porphyritic basalt, pillowed variolitic basalt, spherulitic basalt, tuff, tuff breccia, and lapilli tuff

presence of three folds, two anticlines and a syncline with east to northeast striking axes - as with those mapped by Johns.

The southern part of the project area is transacted by the Quetico Fault, although the surface trace of the fault is only conjectured towards the west. The fault is traceable for over 200 km and in part defines the southern boundary of the Wabigoon Subprovince which lies to the east of the project area. Dextral transcurrent offsets are interpreted to be the major movement, estimated to be up to 128 km. A southerly splay from the Quetico is interpreted to strike northeast passing near the village of Stratton.

Well defined penetrative deformation is commonly observed on a regional scale. At the margins of intrusive bodies foliation/schistocity can be very strongly developed, striking tangentially to the contact of the intrusion.

Cretaceous sediments occupy the Red River Valley and are observable in Manitoba, Minnesota, and North Dakota where they blanket older sediments that fringe the Williston Basin (Bajc, 1991b). In the Rainy River region no exposures of Cretaceous age have been documented, however an outlier of Cretaceous marine clay has been noted 65km south of Fort Frances, suggesting a more extensive pre-existing presence (Bajc,1991b). Middle Cretaceous, non-marine, fossiliferous, clastic sediments have been encountered in an O.G.S. borehole 7.5 km northwest of Rainy River. Composed primarily of white to buff colored, moderately sorted, silica sand and gravel, this occurrence is located in a protected hollow, down-ice from prominent bedrock highlands.

4.2 Quaternary Geology

The surficial and subsurface Quaternary geology of the Rainy River area has been thoroughly summarized by Bajc (1991 a,b).

Although the majority of the deposits are of Late Wisconsinan age, the stratigraphy is extremely complex because two disparate superimposed ice masses advanced through the Lake Agassiz basin. The earliest deposits are related to southwesterly ice advance of the Rainy lobe of the Labradorean ice mass. Superimposed and in part contemporaneous ice of the St. Louis sublobe (DesMoines lobe) of the Keewatin ice mass moved eastward into the Rainy River area in the lowland corresponding to the Rainy River Greenstone Belt. Bajc (1991a) identified five till units and five glaciolacustrine sediment packages in the Fort Frances - Rainy River area recording minor oscillations in the frontal positions of both the Labradorean and Keewatin ice masses during meltdown. Striae measurements indicate ice flow azimuths of 210 ± 10° for the Labradorean ice and 090 ± 20° for the Keewatin ice (Bajc, 1991a).

Quaternary sediments intersected in the reverse circulation drill holes comprise till and Lake Agassiz sediments from both the Labradorean and Keewatin events. Labradorean till rests on bedrock in > 90 percent of the drill holes and was the principal sampling horizon. Its thickness ranges from < 1 to > 20 metres and is sympathetic to bedrock topography with thin till on bedrock highs and thicker till containing interlayers of ice contact glaciofluvial sand/gravel and embryonic Lake Agassiz clay-silt-sand in bedrock depressions. The simultaneous deposition of thin unlayered till on bedrock highs and thick layered till and sediments in depressions requires that; (a) the ice was grounded on the bedrock highs but rested on its own debris in the bedrock lows, perhaps due to the greater buoyancy of the deeper water in these lows, and (b) the position of the ice front fluctuated back and forth while forward ice flow was continuous.

The Labradorean till is typically sandy. A clay component is present only in areas where the till overrode Lake Agassiz sediments, especially in bedrock depressions, or soft saprolitic bedrock. Layers of Lake Agassiz sediments in the till also tend to be sandier than those above the till, reflecting deposition closer to the receding ice front. The till clasts are a distinctly Archean assemblage of volcanics, sediments and granitoids with the proportions varying according to the underlying geology. Sheared chloritic to sericitic clasts resembling the sheared volcanics of the Richardson Township gold area form a small (<5 percent) but conspicuous proportion of the clast population where sheared bedrock was rarely encountered, and the till concentrates from this area are often so pyritic that panning was required to permit observation of gold grains.

The Labradorean till and associated sediments are overlain by the Keewatin-derived package comprising layers of Lake Agassiz glaciolacustrine clay-silt (± sand) and clayey till. This sequence is capped by Holocene-age peat and organic deposits. The Keewatin sequence typically comprises a layer of till sandwiched between two layers of soft glaciolacustrine clay ± sand. On a map scale, the Keewatin till forms a relatively continuous unit but the underlying and the overlying clay layers are locally absent. On a detailed scale, more complex interlayering of the till and sediments probably occurs.

The Keewatin package ranges up to at least 45 metres in thickness and the till member typically forms > 50 percent of the section. The Keewatin till is clay-rich and stone-poor. In many of the deeper holes, it becomes so clayey down-hole that pebbles and grit are virtually non-existent. In these holes the till may be recognized by its dull grey colour and massive appearance. In many of the earlier holes, this material was logged as Lake Agassiz sediments but the sediments are normally varved with grit-free grey clay and beige silt varves being recognizable. The Keewatin till was deposited by thin, buoyant glacial ice that slid across the Lake Agassiz bottom sediments and had extremely limited contact with bedrock, consequently the till is unsuitable for heavy mineral sampling. Clasts in the till are dominantly unmetamorphosed, westerly-derived, Paleozoic to Mesozoic carbonates and Archean granitoids.

5.0 REVERSE CIRCULATION DRILLING WORK PROGRAM

5.1 Drilling Pattern

The gold dispersal train in Richardson Township is so large that the the OGS intersected it in 1988 while drilling holes 2 to 4 km apart. Typically, however, gold dispersal trains are only about 500 m long although almost as wide, especially if ice flow is at right angles to the mineralization as would probably be the case for any mineralization related to the Quetico Fault.

A NW-SE traverse orientation pattern for the holes was used for the 1997 drilling so as to obliquely cross the E-W trending bedrock stratigraphy while squarely intercepting any dispersal trains in the SW transported Labradorean till. The main goal in 1997 was to establish the limits of the dispersal train in Richardson Township and a magnetic feature down-ice from the 17 gold Zone.

Table 2 summarizes the location and depths of all of the drill holes (including those not submitted for assessment credits in this report) and the number of samples collected. Appendix I presents the details of the drill hole logs submitted for work credit.

5.2 Methodolgy, Personnel and Costs

Bradley Brothers Limited of Timmins, Ontario supplied the reverse circulation drill and Overburden Drilling Management (ODM) of Nepean, Ontario supported by Nuinsco's consultants managed the program. ODM's field crew consisted of three geologists on rotation (Peter Collins, Kenzie MacNeir, Val Ansell and assistants, Bohdan Rudnicki Scott Davidson and Alain Champagne.

The drill was mounted and enclosed on a Nodwell muskeg tractor for off-road mobility and all-weather operation. Temporary winter roads were cleared and packed to the drill sites with a wide-tracked D-6 bulldozer.

A reverse circulation drill string consists of two coaxial pipes and a tricone bit. Air and water are injected between the pipes to the bit and clay to pebble-sized sediment particles and cm-sized cuttings of boulders and bedrock are flushed instantly through the center pipe to surface where they are logged and bulk samples weighing 8 to 10 kg are collected (see Figure 6). ***Appendix I*** details the drill hole logs.

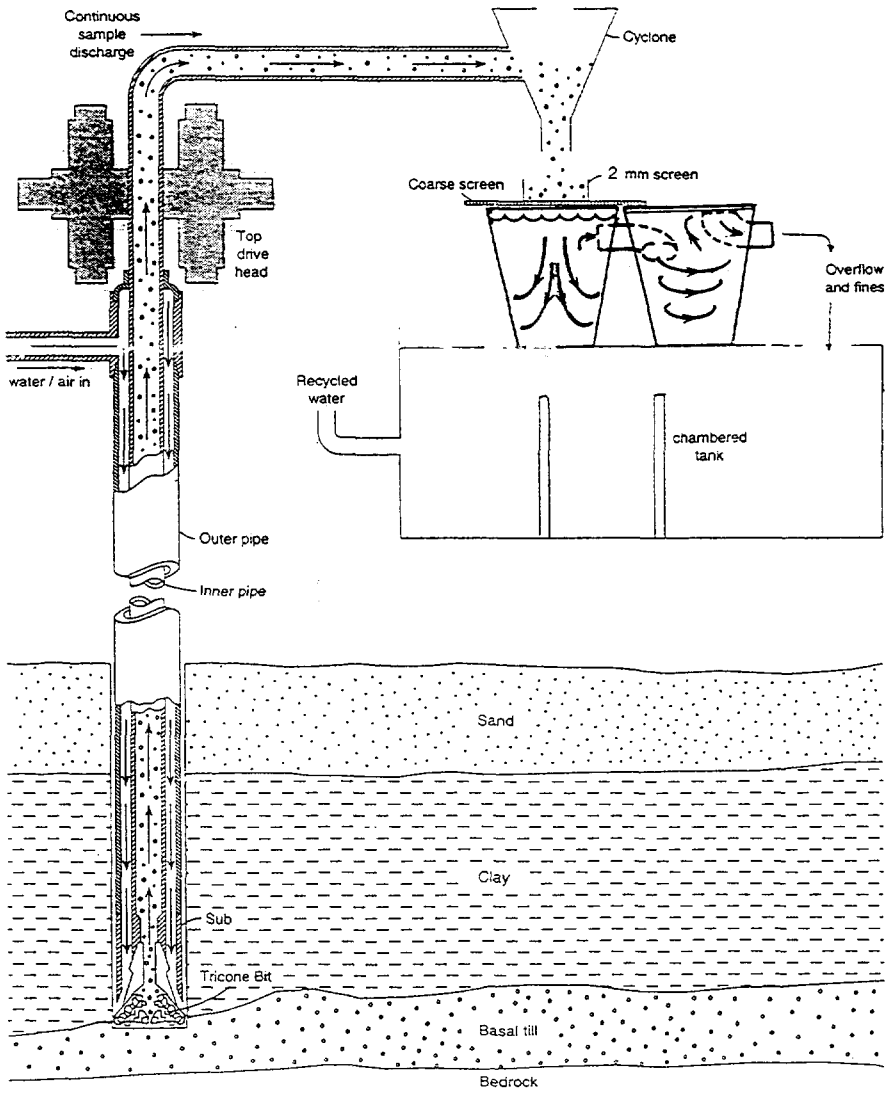


Figure 5 ; Schematic Diagram of a Reverse Circulation Drilling System

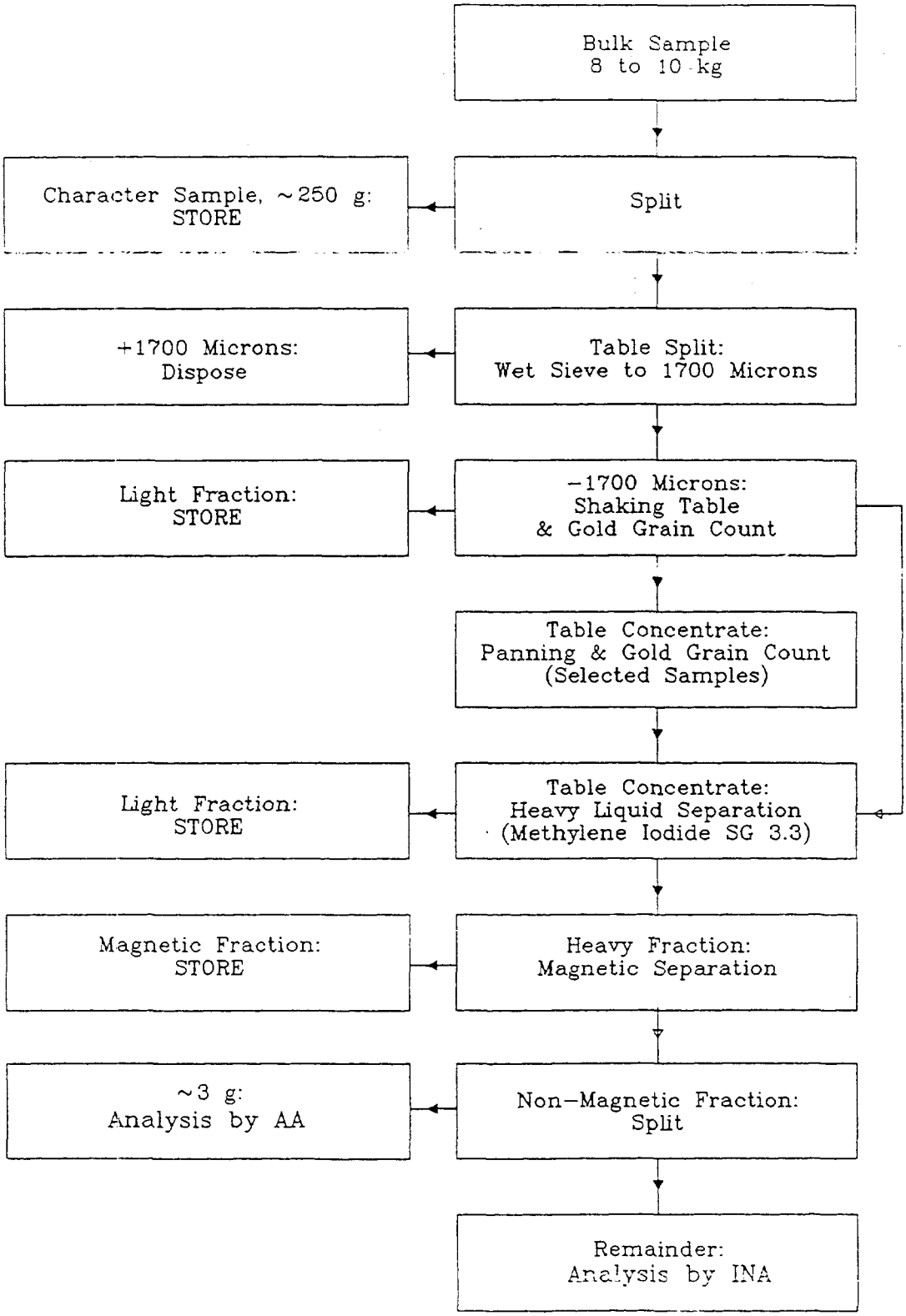


Figure 6 ; Overburden Sample Processing Flow Sheet

Table 2: **Drilling and Sampling Statistics**

Hole Number RR-97	Metres Drilled		Hole Depth (m)	Samples Collected		Hole Number RR-97	Metres Drilled		Hole Depth (m)	Samples Collected	
	Overburden	Bedrock		Overburden	Bedrock		Overburden	Bedrock		Overburden	Bedrock
321	31.0	1.0	32.0	3	1	388	39.5	1.0	40.5	5	1
322	23.0	1.5	24.5	2	1	389	47.0	1.5	48.5	5	1
323	34.5	1.5	36.0	4	1	390	56.8	0.7	57.5	11	1
324	35.2	1.4	36.6	5	1	391	45.4	1.1	46.5	5	1
325	37.4	1.6	39.0	10	1	392	10.8	1.7	12.5	1	1
326	28.0	1.2	29.2	1	1	393	18.3	1.7	20.0	4	1
327	24.5	1.0	25.5	2	1	394	29.8	1.7	31.5	3	1
328	24.2	1.3	25.5	3	1	395	30.8	2.2	33.0	0	1
329	34.4	1.6	36.0	3	1	396	33.9	0.6	34.5	2	1
330	29.8	1.7	31.5	4	1	397	32.9	1.6	34.5	3	1
331	26.0	1.5	27.5	2	1	398	36.1	3.4	39.5	5	1
332	25.0	1.5	26.5	1	1	399	36.6	1.4	38.0	3	1
333	32.3	1.7	34.0	4	1	400	27.1	2.2	29.3	1	1
334	13.0	2.0	15.0	1	1	401	31.0	2.0	33.0	6	1
335	34.2	1.8	36.0	3	1	402	22.1	1.5	23.6	6	1
336	35.2	1.8	37.0	4	1	403	30.5	1.0	31.5	3	1
337	16.5	1.5	18.0	3	1	404	38.9	1.6	40.5	5	2
338	34.8	1.7	36.5	7	1	405	22.4	1.5	23.9	1	1
339	41.3	1.7	43.0	9	1	406	19.4	1.6	21.0	1	2
340	28.3	1.5	29.8	7	1	407	7.3	1.5	8.8	3	1
341	24.7	1.8	26.5	1	1	408	21.0	1.5	22.5	7	1
342	28.7	1.3	30.0	4	1	409	32.5	2.0	34.5	2	1
343	34.5	1.5	36.0	6	1	410	53.7	16.8	70.5	12	2
344	20.6	1.4	22.0	1	1	411	39.9	1.6	41.5	13	1
345	26.0	0.0	26.0	0	0	412	47.4	1.6	49.0	9	1
345A	29.7	1.3	31.0	2	1	413	28.5	3.0	31.5	1	1
346	36.8	1.4	38.2	1	1	414	44.6	1.4	46.0	11	1
347	26.1	1.1	27.2	1	1	415	43.4	1.9	45.3	5	1
348	3.7	1.8	5.5	1	1	416	36.2	1.5	37.7	8	2
349	3.3	2.4	5.7	1	1	417	21.2	1.3	22.5	2	1
350	5.2	1.4	6.6	1	1	418	31.9	1.6	33.5	5	1
351	6.7	1.9	8.6	0	1	419	33.5	1.5	35.0	3	1
352	5.2	1.3	6.5	1	1	420	37.6	1.9	39.5	4	1
353	25.0	1.5	26.5	6	1	421	36.9	2.6	39.5	7	1
354	28.4	1.6	30.0	1	1	422	25.3	0.7	26.0	1	1
355	17.0	1.5	18.5	1	1	423	41.8	1.5	43.3	8	1
356	16.0	1.5	17.5	1	1	424	25.0	1.5	26.5	3	1
357	17.0	1.5	18.5	1	1	425	26.8	1.7	28.5	3	1
358	6.4	2.0	8.4	2	1	426	18.4	1.6	20.0	1	1
359	30.7	0.8	31.5	4	1	427	14.1	1.5	15.6	1	1
360	36.3	1.2	37.5	7	1	428	17.9	1.6	19.5	1	1
361	47.0	1.5	48.5	11	1	429	20.7	1.8	22.5	4	1
362	34.2	1.4	35.6	11	1	430	24.4	2.6	27.0	2	1
363	21.9	1.6	23.5	6	1	431	30.1	1.4	31.5	2	1
364	37.8	1.4	39.2	6	1	432	33.8	0.7	34.5	5	1
365	35.7	1.8	37.5	8	1	433	29.5	0.0	29.5	4	0
366	33.0	1.5	34.5	5	1	433A	31.3	1.3	32.6	1	1
367	25.4	1.6	27.0	1	1	434	35.7	1.5	37.2	3	1
368	16.6	1.9	18.5	1	1	435	17.4	1.6	19.0	1	1
369	23.8	1.2	25.0	10	1	436	17.5	1.5	19.0	5	2
370	13.8	1.7	15.5	2	1	437	20.1	2.2	22.3	1	2
371	12.3	2.7	15.0	1	1	438	17.5	2.0	19.5	3	1
372	16.5	3.5	20.0	1	3	~~439~~	19.3	1.5	20.8	5	1
373	31.9	2.6	34.5	3	1	~~440~~	1.8	1.5	3.3	0	1
~~374~~	21.3	1.2	22.5	4	1	~~441~~	19.1	1.5	20.6	1	2
~~375~~	4.4	1.6	6.0	1	1	~~442~~	13.4	1.5	14.9	1	1
376	34.3	1.7	36.0	14	1	~~443~~	22.4	2.6	25.0	7	1
377	31.9	1.1	33.0	1	1	444	29.7	3.4	33.1	2	2
378	16.7	1.3	18.0	1	1	445	23.6	1.5	25.1	1	1
379	17.5	1.0	18.5	5	1	446	26.3	1.7	28.0	3	1
380	35.8	0.7	36.5	6	1	447	17.0	2.0	19.0	2	1
381	33.7	1.8	35.5	2	1	448	17.4	1.3	18.7	4	1
382	23.4	1.1	24.5	4	1	449	23.3	1.7	25.0	5	2
383	23.5	1.5	25.0	2	1	450	10.4	1.6	12.0	3	1
384	22.9	1.1	24.0	5	1	451	15.0	1.5	16.5	4	1
385	38.0	1.0	39.0	12	1	452	17.1	1.4	18.5	3	1
386	41.1	1.4	42.5	14	1	453	25.4	1.3	26.7	5	1
387	43.9	1.1	45.0	8	1	454	33.2	1.3	34.5	2	1
				TOTALS:		**136**	**3,586.0**	**228.4**	**3,814.4**	**525**	**145**

In its Nepean laboratory, ODM relogged the bedrock chip samples in more detail by binocular microscope, prepared heavy mineral concentrates from the 340 bulk till and related overburden samples using shaking table preconcentration followed by heavy liquid sink-float separations (specific gravity 3.3), counted and measured any observed gold grains and classified them according to degree of wear (pristine, modified, reshaped), micropanned the concentrates, mainly those showing more than 5 to 7 gold grains but also many with excessive gold-obscuring pyrite and some with high concentrations of native Cu grains, and calculated rough gold values based on the observed gold grains (refer to Figure 7, lab procedures). The results of this work is presented in **Appendix II.**

Representative subsamples of bedrock and whole till concentrates were analyzed for gold, arsenic, copper, zinc and silver by Activation Laboratories Ltd.; whole rock compositions were also determined for the unweathered bedrock samples. Gold and arsenic were determined by the instrumental neutron activation (INA) method which preserves the concentrate for further study as needed. However a 3 g subsample was consumed analyzing Cu, Zn, Ag, Ni, Cd, and Mn by the inductively coupled plasma (ICP) wet chemical method which has a better detection limit than INA for these elements (refer to ***Appendix III*** - Bedrock Analyses and ***Appendix IV*** - Heavy Mineral Analyses).

With hole depths averaging 28.1 metres, a total of 525 overburden and 145 bedrock samples were collected for a total expenditure of $392,763.21 for the entire 1997 project. This expenditure covered all expected contract work including project planning, hole layout, road preparation, drilling, field supervision, logging and sampling, heavy mineral processing, sample analysis, data interpretation and preparation of a comprehensive report complete with maps and drill sections. The cost per metre, all inclusive was $102.97, a figure considerably less than the $136.75/meter incurred during the 1996 RC program. The lower costs were attributed by Overburden Mangement as due to more favorable weather conditions.

6.0 RESULTS OF WORK

6.1 Bedrock Stratigraphy

Lithologic descriptions of the reverse circulation bedrock chip samples are tabulated and presented in the ***Appendix V*** (Binocular Logs - Bedrock Chips).

In the following text each basement lithology is described in detail using data from the binocular logs. The descriptions are of the primary rock types and exclude a description of the incipient saprolitic weathering which has affected even the freshest-looking basement rocks in the project area. The effects of this weathering on the whole rock geochemistry are not yet fully understood. The descriptions are essentially unchanged from that described in the 1995/6 Reverse Circulation drill report.

6.1.1 Komatiite

Komatiitic volcanic rocks are located throughout the Rainy River greenstone belt. Each intersection occurs within 1.5 km of a granitoid intrusive body. The rocks are massive, coarse grained (0.5 mm), spinifex textured rock composed of serpentinized to talcose olivine and 15 percent chlorite. This rock unit is characterized by high MgO (25 percent), low Al_2O_3 (7 percent), and low SiO_2 (45 percent).

6.1.2 Basalt

Basalt was intersected throughout the drill area. As previously mentioned in the regional context, both tholeiitic and calc-alkalic basalts are present. The tholeiitic basalts are high-Fe to high-Mg varieties with the high-Mg field defined by an approximate 1:1 to 2:1 ratio of Fe_2O_3 to MgO and the high-Fe field by a 2:1 to 3:1 ratio. Silica contents are consistently below 52 percent. As the tholeiitic basalts frequently occur near granitoid bodies, they are typically of mid-greenschist to amphibolite metamorphic grade and composed chiefly (70-75 percent) of variably chloritized, lineated actinolite and hornblende and 25-30 percent cloudy crystalline to granoblastic plagioclase. Plagioclase phenocrysts or microphenocrysts are uncommon. Shear-related alteration is negligible.

Calc-alkalic basalts were not segregated in binocular logging but do differ texturally and mineralogically from the tholeiitic basalts in two respects: (1) they are often weakly plagioclase microphyric and (2) their mafic mineral (chlorite, actinolite, pyroxene) content is lower (typically 35 to 50 versus 70 percent) and plagioclase is correspondingly higher. These features are often reflected in high SiO_2 (55-62 percent) and low $MgO + Fe_2O_3$ contents (<13 percent versus >18 percent in tholeiitic basalts).

As most of the calc-alkalic basalts are not near granitoid bodies they commonly display lower greenschist facies metamorphism. Where the basalt is schistose, the local presence of plagioclase phenocrysts may impart a greywacke-like appearance. Even with the greenschist facies metamorphism, calcite is rare. Other alteration minerals related to shearing (pyrite, tourmaline, etc.) occur only locally.

6.1.3 Andesite

Andesite was intersected as flows which are are characterized by a very fine-grained (<0.1 mm), quenched volcanic texture and invariably contain 5-25 percent plagioclase phenocrysts from 0.5-3.0 mm in size. Quartz phenocrysts occur locally but concentrations do not exceed 5 percent. SiO_2 contents typically range from 62-70 percent, overlapping with both the calc-alkalic basalts and dacites of the Richardson

area. Total Fe_2O_3 + MgO contents rarely exceed 10 percent in unaltered samples. Groundmass mineralogy is typically 70:30 to 80:20 plagioclase + quartz versus chlorite + sericite. Where quartz is discernible from plagioclase, the quartz content is typically 15 percent. Where sheared or strongly foliated, the porphyritic andesite is converted to an augen schist resembling tuff.

In the sheared western tholeiitic andesites the original plagioclase phenocrysts have been dismembered although up to 5 percent quartz phenocrysts do survive. These samples have SiO_2 contents similar to the calc-alkalic andesite but slightly higher Fe_2O_3 (6-10 percent). They are depleted in MgO, Na_2O and CaO, apparently due to the combined effects of shearing and incipient saprolitization.

6.1.4 Rhyolite

Felsic volcanic rocks (rhyolite) are present in numerable holes (refer to Appendix V). All samples are pale buff-grey in colour, moderately to strongly sheared and sericitic and weakly to strongly quartz and plagioclase-phyric. The Richardson felsic volcanics contain no more quartz phenocrysts (maximum 3-5 percent) than the intermediate (dacitic) volcanics to the north. However, the felsic rock samples here all contain 69-77 percent SiO_2 and plot as rhyolite on the Jensen diagram, suggesting that the quartz phenocryst content has been reduced by tectonic dismembering. Shear-related alteration appears to be predominantly sericite with a trace to 3 percent disseminated pyrite. It apparently has little effect on SiO_2, Al_2O_3, Fe_2O_3, MgO or Na_2O content.

6.1.5 Clastic Sedimentary Rocks

Greywacke and siltstone were intersected across the drill area at various stratigraphic levels in the mafic and intermediate volcanic sequences. Greywacke intersections are typically composed of an unsorted fine to medium grained (0.1-0.3 mm) sand containing 10-20 percent quartz, 60-70 percent pale undifferentiated plagioclase and lithic grains and about 20 percent green-grey matrix chlorite and pale grey sericite (possibly, in part, bleached chlorite). Near pluton margins, amphibolite facies metamorphism has produced a biotite schist composed of a colourless granoblastic felsic groundmass and biotite.

Siltstone is finer grained (<0.1 mm), fissile to semi-fissile and may display a fine chip scale lamination/bedding defined by colour and compositional variations. Thin siltstone beds sometimes occur within greywacke intersections. Siltstone intersections appear to have the same general composition as greywacke but with slightly more (20-30 percent) matrix chlorite and sericite. Both the greywacke and siltstone plot dominantly in the calc-alkalic field suggesting derivation from the intermediate volcanics.

6.1.6 Gabbro

Gabbro is a minor rock type in the Rainy River supracrustals. It is a coarse grained (0.5-5.0 mm), moderately foliated to massive rock with a subhedral granitic texture. The bedrock chips are composed of cloudy plagioclase and augite showing varying degrees of alteration to chlorite, actinolite and hornblende

6.1.7 Feldspar Porphyry, Quartz Feldspar Porphyry

Isolated bodies of subvolcanic feldspar porphyry were intersected in only a few of the drill holes. The feldspar porphyry is composed of a fine-grained (0.1-0.3 mm), interlocking to granular-sugary feldspathic to quartzo-feldspathic groundmass with <30 percent chlorite replacing biotite. Subhedral to euhedral plagioclase phenocrysts to 5 mm in size comprise 20-70 percent of the porphyry. All intersections are weakly foliated indicating they are synvolcanic. The porphyry samples plot as calc-alkalic andesite to rhyolite.

6.1.8 Tonalite

Tonalite was intersected as part of small to large stocks and is particularly common at the west end of the greenston belt. It is commonly massive but may be very weakly flow foliated. It is coarse grained and hypidiomorphic and the samples have a fairly constant composition of 40-50 percent plagioclase, 25-30 percent quartz and 20-30 percent mafic minerals with variably chloritized hornblende outstripping chloritized biotite. Up to 10 percent secondary epidote is commonly present. On a Jensen diagram the samples plot predominantly in the calc-alkalic andesite field. Weathering of these rocks is reflected by lower Fe_2O_3 (1.5-3 versus 3-5 percent) and MgO (0.5-1 versus 1.5-3 percent).

Several tonalite intersections differ from the other tonalites in being gneissic like the trondhjemite. They also contain slightly more plagioclase (60 percent) and less quartz (15 percent) than typical tonalites.

6.1.9 Trondhjemite

Trondhjemite is a foliated to gneissic rock with abundant pegmatite. Several intersections contain basalt (amphibolite) xenoliths. Small massive pyrite xenoliths were intersected, thus enhancing the possibility of massive sulphide mineralization in the komatiite horizons rimming the northwestern granitoid plutons.

The trondhjemite samples typically display a grain size of 0.3-1.5 mm with the texture varying from finely granitoid (hypidiomorphic) to polygonal granular (granoblastic). They are typically composed of 55-60 percent white plagioclase, 30-35 percent quartz and ≤10 percent biotite.

Pegmatite segregations cutting the trondhjemite are massive, coarse grained (2-10 mm) and composed entirely of quartz and perthite. The trondhjemite ± pegmatite samples plot mostly near the Al_2O_3 apex on the Jensen diagram reflecting the low proportion of mafic minerals and common occurrence of pegmatite.

6.1.10 Quartz Monzonite

Quartz monzonite is a minor rock type in the Rainy River District and occurs only near the Sabaskong Batholith/supracrustal contact. This intrusion probably forms a narrow, late, marginal phase of the batholith. The sample is composed essentially of pink, hematite-stained feldspar (60-65 percent) and quartz (35 percent) with 1-2 percent combined chlorite and sericite.

6.1.11 Diabase

Proterozoic diabase dykes are fine to medium grained (0.5-2.0 mm) with a distinct diabasic texture characterized by unoriented plagioclase laths separated by interstitial pyroxene. The samples are unmetamorphosed but weakly weathered and consist of about 50-55 percent plagioclase, 40-45 percent green to brown augite and 2-5 percent ilmenite. The diabase from holes 32 and 35 contains 1 to 2 percent interstitial quartz and that from hole 171 contains 5 percent disseminated magnetite. The diabase samples have an iron-rich tholeiitic affinity and plot in the Jensen basalt and andesite fields.

6.2 Bedrock Geochemistry

Bedrock base and precious metal analyses are presented in Appendices III and IV. Gold values are commonly <5 ppb with occasional spikes of 10 to 45 ppb. Values ≥20 ppb are rare and are too low and isolated to be of exploration significance.

Silver and arsenic commonly occur at or near their respective minimum detection limits of 0.2 and 2 ppm. Arsenic values exceeding 20 ppm have been found to be good indicators of major shear zones in the Abitibi Belt (e.g. Cadillac - Larder Lake Break, Casa-Berardi Fault). Arsenic may similarly define the Quetico Fault as weak spikes of 15-53 ppm occur in four of the eight strongly sheared felsic to intermediate volcanic samples in the project area.

Copper and zinc background levels range up to 75 ppm. Copper background is typically lowest in the granitoid rocks (<30 ppm) while zinc remains fairly constant in all rock types. Two features are obvious with regards to the anomalous copper values: (1) most of the elevated values occur in saprolitized supracrustal rocks, and (2) copper values can, in many samples, be traced to grains of native copper occurring in the saprolite.

6.3 Heavy Mineral Gold Geochemistry

Overburden Drilling Management (ODM) has considerable experience in testing gold dispersal train anomalies in tills, including many from gold deposits in the Abitibi Subprovince. Most are caused by liberated native gold grains in the till matrix, not by gold encapsulated in other minerals. Even if a majority of the gold is held in other minerals, such as in pyrite as in the tills overlying Richardson Township, highly anomalous amounts of visible gold are liberated due to the effects of glacial milling. These gold grains are dominantly silt-sized (<63 microns wide) but still qualify as visible gold because they are discernible with a simple binocular microscope. The trains are typically relatively short (in the order of 500 to 1000 m long) which results in the gold grains remaining pristine to moderately modified unlike the fully reshaped grains constituting most of the regional background gold grain population of the till.

To be considered as anomalous by ODM experience, a sample must contain at least 10 of the pristine to modified grains. An anomaly must also be of sufficient strength to suggest source mineralization of a significant grade and size. Assay strength is, however, dependent on concentrate size as well as source grade and size. If the till contains a normal abundance of heavy minerals, which is indicated by a laboratory concentration factor of about 350:1, a concentrate assay >1000 ppb or 1 g/t from a sample near the mid-point of the train is potentially significant because the source mineralization will probably have about the same grade. This handy rule reflects the fact that dilution of gold ore by unmineralized rock at the mid-point of a train is also about 350:1 and reconcentrating the gold in the laboratory simply cancels the dilution. If heavy minerals are unusually abundant, anomalies <1000 ppb may be significant whereas in undersized concentrates only anomalies much greater than 1000 ppb are of interest. One way of avoiding this variability is to normalize all samples to a 350:1 concentration factor. A better way, if all of the gold is visible, is to evaluate anomalies on the basis of the gold grain counts which are not dependent on concentrate size.

Several studies have shown that gold values calculated by ODM from the number of gold grains observed and their sizes closely match the actual gold assays obtained when the concentrates are analyzed. A plot of the calculated values versus the assays is very useful for assessing anomalies.

If all of the grains are observed and none are removed from the concentrates prior to analysis, the samples will plot along the 45° slope. If grains are removed or lost or if the largest grains fail to enter the analytical aliquot when the concentrate is split before analysis, the samples will plot above the 45° slope. When grains are overlooked during processing or if most of the gold in the concentrate is hidden within another mineral (i.e. encapsulated), the samples will plot below the 45° slope.

The background concentration of reshaped gold grains in most of the project area is 1 to 7 grains/sample, with only occasional spikes over 10 grains/sample. The lowest values are over the largest granitoid plutons.

6.4 Cu-Zn-Ag-As in Heavy Mineral Concentrates

Normally heavy mineral copper values ≥800 ppm are considered anomalous because they indicate the presence of chalcopyrite or other copper minerals in the concentrates. Lower copper values between 200 and 800 ppm are generally due to copper ions held in pyrite. Zinc and silver also follow this pattern. Silver is normally sympathetic to copper, zinc or gold.

The Rainy River concentrates produced numerous weak anomalies, essentially all of which are copper anomalies which are related to native copper in the tills. In Richardson Township consistently elevated levels of copper, zinc, arsenic and silver are also present. The native copper anomalies overprint a regional Cu background that approaches 300 ppm over supracrustal rocks and is <100 ppm over granitoid stocks. Background zinc and arsenic levels are also highest over the supracrustal rocks (50-200 ppm versus <75 ppm). Silver ranges from less than the 0.2 ppm detection limit to distinctly anomalous concentrations of 4-10 ppm (4 to 10 g/t) which correlate weakly with the native copper anomalies. In contrast, any coincidence of gold with copper is accidental, resulting from the high incidence of both gold and copper anomalies in the till.

7. CONCLUSIONS

The 1997 reverse circulation drilling was performed in a relatively unexplored portion of the Rainy River Greenstone Belt. The main objective was to test the overlying Labradorean till for dispersed mineralization up-ice from the #17 gold deposit located in the southeast corner of Richardson Township.

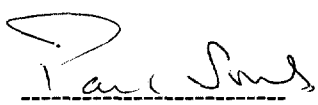
The local occurrence of native copper grains in the saprolite and their widespread occurrence and local high concentrations in the till that there must have been a copper mineralizing event across the Rainy River greenstone belt.

Table 3 (next page) summarizes the allowable expenditures associated with the drilling programme. Table 4 (next page) compiles the drill hole data (total meters drilled) associated with each claim and the dates drilled. Tables 5 and 6 summarize the ownership of the patents and work applied to both the patents and mining claims.

8. RECOMMENDATIONS

Additional reverse circulation drilling has been recommended by Overburden Drilling in Richardson Township as the head of the gold-in-till anomaly has yet to be found. Follow-up IP surveys and diamond drill holes are recommended in the south eastern portion of Richardson Township once this final reverse circulation program has been carried out.

Respectfully submitted,



Paul Jones, BSc.
Project Geologist
September 8th, 1997

CERTIFICATE OF QUALIFICATIONS

PAUL JONES

I, Paul Latimer Jones resident at 27 Briarmoor Crescent, Ottawa, Ontario, Canada, K1T 3G7, do hereby certify that:

1: I am a Consulting Geologist, since 1986.

2: I am graduate of Carleton University, Ottawa, 1982, with a B.Sc. (Hons.) in Geology.

3: I have been engaged in the study and practice of my profession since 1978.

4: I am a registered Fellow of the Geological Association of Canada.

5: This report is based upon onsite supervision of Nuinsco Resources Limited Reverse Circulation Drilling Exploration Program in the district of Rainy River.

Dated at Emo, this 8th day of September, 1997.

Paul Jones, B.Sc.

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Table 3 Statement of Expenditures *

Dates of Drilling:	January 19 - March 22nd, 1997
Number of Holes:	134
Total (metres):	3,814.4 m

(A) DIRECT DRILL COSTS

Drilling Contractor	Bradley Brothers	191,369.25
Sample Collection, Field Supervision	Overburden Drilling	73,399.08
Sample Shipping		3,871.95
Sample Processing	Overburden Drilling	36,746.13
Analytical	ACT Labs (assaying)	19,354.25
	Bonder Clegg	
Interpretation & Compilation of data	Overburden Drilling	38,365.13
	Total	**363,105.79**

Total Direct Drilling Costs/meter = $95.19

(B) SUPERVISION AND SUPPORT COSTS

Paul Jones; 49 days x $325/day (Senior Field Geologist)	15,925.00
Truck (2 months)	1,050.00
Field office rent (2 months)	1,400.00
Phone/supplies/heating	2,264.78
Expenses (food, travel)	9,017.64
Report costs	0.00
	29,657.42

Total Support Costs/meter = $ 7.78

TOTAL DRILL COSTS/METER = $ 102.97

* All Expenditures Exclusive of GST

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Limited

INVOICE

Date: January 31, 1997

Invoice No.: 000444

Job: T1793

To:

NUINSCO RESOURCES LIMITED
908 The East Mall
Etobicoke, Ontario
M9B 6K2

RAINEY RIVER AREA

From January 16 to 31, 1997

Hole No.				
Mobilization				$6,300.00
RR97-321	0.00	107.00	107.00 feet	
RR97-322	0.00	82.00	82.00 feet	
RR97-323	0.00	116.00	116.00 feet	
RR97-324	0.00	122.00	122.00 feet	
RR97-325	0.00	130.00	130.00 feet	
RR97-326	0.00	96.00	96.00 feet	
RR97-327	0.00	85.00	85.00 feet	
RR97-328	0.00	85.00	85.00 feet	
RR97-329	0.00	120.00	120.00 feet	
RR97-330	0.00	105.00	105.00 feet	
RR97-331	0.00	90.00	90.00 feet	
RR97-332	0.00	88.00	88.00 feet	
RR97-333	0.00	113.00	113.00 feet	
RR97-334	0.00	50.00	50.00 feet	
RR97-335	0.00	119.00	119.00 feet	
RR97-336	0.00	122.00	122.00 feet	
RR97-337	0.00	60.00	60.00 feet	
RR97-338	0.00	121.00	121.00 feet	
RR97-339	0.00	142.00	142.00 feet	
RR97-340	0.00	98.00	98.00 feet	
RR97-341	0.00	88.00	88.00 feet	
RR97-342	0.00	100.00	100.00 feet	
RR97-343	0.00	120.00	120.00 feet	
RR97-344	0.00	71.00	71.00 feet	
RR97-345	0.00	90.00	90.00 feet	
RR97345A	0.00	103.00	103.00 feet	
RR97-346	0.00	126.00	126.00 feet	
RR97-347	0.00	90.00	90.00 feet	
RR97-348	0.00	17.00	17.00 feet	
RR97-349	0.00	20.00	20.00 feet	
RR97-350	0.00	22.00	22.00 feet	
RR97-351	0.00	20.00	20.00 feet	
RR97-352	0.00	21.00	21.00 feet	
RR97-353	0.00	88.00	88.00 feet	
RR97-354	0.00	90.00	90.00 feet	
RR97-355	0.00	61.00	61.00 feet	
RR97-356	0.00	59.00	59.00 feet	

G.S.T.: #R140192204 Q.S.T.: #1017522805

CONTRACT DIAMOND DRILLING
98, 14th Street • P.O. Box 2367 • Rouyn-Noranda, Quebec J9X 5A9 CANADA

Tel.: (819) 797-0755 • Fax: (819) 797-0916

INVOICE

Date: January 31, 1997

Invoice No.: 000444

Job: T1793

To:

NUINSCO RESOURCES LIMITED
908 The East Mall
Etobicoke, Ontario
M9B 6K2

RAINEY RIVER AREA

From January 16 to 31, 1997

Operating	126.00 hours	$170.00	$21,420.00
Muskeg	126.00 hours	47.00	5,922.00
Servicing	4.00 hours	170.00	680.00
Travel time -			
13 days x 3 men	39.00 days	35.00	1,365.00
Pickup	13.00 hours	30.00	390.00
Room & Board -	39.00 man days	65.00	2,535.00
6 bits @ $685.00 = $4110.00			
3 sub @ 290.00 = 870.00			
2 rods @ 525.00 = 1050.00			
	$6030.00		
Plus 15%	904.50		6,934.50
Mobilization of tractor -			900.00
Tractor to make roads -			
Jan. 16 - 10 man hrs - 7 tractor hrs			
Jan. 17 - 11 man hrs - 10 tractor hrs			
Jan. 18 - 11 man hrs - 10 tractor hrs			
Jan. 19 - 11 man hrs - 10 tractor hrs			
Jan. 20 - 11 man hrs - 8 tractor hrs			
Jan. 21 - 10 man hrs - 8 tractor hrs			
Jan. 23 - 11 man hrs - 8 tractor hrs			
Jan. 24 - 11 man hrs - 9 tractor hrs			
Jan. 25 - 11 man hrs - 9 tractor hrs			
Jan. 27 - 11 man hrs - 9 tractor hrs			
Jan. 28 - 5 man hrs - 5 tractor hrs			
113 man hrs - 93 tractor hrs			
	113.00 man hours	35.00	3,955.00
	93.00 tractor hours	55.00	5,115.00

G.S.T.: #R140192204 Q.S.T.: #1017522805

CONTRACT DIAMOND DRILLING
98, 14th Street • P.O. Box 2367 • Rouyn-Noranda, Quebec J9X 5A9 CANADA

Tel.: (819) 797-0755 • Fax: (819) 797-0916

INVOICE

Date: January 31, 1997

Invoice No.: 000444

Page: 3 of 3

Job: T1793

To:

NUINSCO RESOURCES LIMITED
908 The East Mall
Etobicoke, Ontario
M9B 6K2

RAINEY RIVER AREA

From January 16 to 31, 1997

Room & Board -	11.00 days	$65.00	$715.00
Pickup	11.00 hours	30.00	330.00
			$56,561.50
		G.S.T.	3,959.31
			$60,520.81

G.S.T.: #R140192204 Q.S.T.: #1017522805

CONTRACT DIAMOND DRILLING
98, 14th Street • P.O. Box 2367 • Rouyn-Noranda, Quebec J9X 5A9 CANADA

Tel.: (819) 797-0755 • Fax: (819) 797-0916

Bradley Bros. Limited

INVOICE

Date: February 15, 1997

Invoice No.: 000462

Page: 2 of 2

Job: T1793

To:

NUINSCO RESOURCES LIMITED
908 The East Mall
Etobicoke, Ontario
M9B 6K2

RAINEY RIVER AREA

From February 1 to 15, 1997

Operating	148.50 hours	$170.00	$25,245.00
Muskeg	148.50 hours	47.00	6,979.50
Servicing	1.50 hour	170.00	255.00
Travel time -			
15 days x 3 men	45.00 hours	35.00	1,575.00
Pick up	15.00 hours	30.00	450.00
Room & Board -	45.00 man days	65.00	2,925.00
Consumables -			
9 bits @ $685.00	= $6165.00		
4 sub @ 290.00	= 1160.00		
4 rods @ 525.00	= 2100.00		
	$9425.00		
Plus 15%	1413.75		10,838.75
Tractor to make roads -			
Feb. 1 - 6 man hrs	- 6 tractor hrs		
Feb. 3 - 9 man hrs	- 8 tractor hrs		
Feb. 4 - 12 man hrs	- 11 tractor hrs		
Feb. 5 - 3 man hrs	- 3 tractor hrs		
30 man hrs	- 28 tractor hrs		
	30.00 man hours	35.00	1,050.00
	28.00 tractor hours	55.00	1,540.00
			$50,858.25
		G.S.T.	3,560.08
			$54,418.33

C S.T.: #R140192204 Q.S.T.: #1017522805

CONTRACT DIAMOND DRILLING
98, 14th Street • P.O. Box 2367 • Rouyn-Noranda, Quebec J9X 5A9 CANADA

Tel.: (819) 797-0755 • Fax: (819) 797-0916

Bradley Bros. Limited

INVOICE

Date: February 15, 1997

Invoice No.: 000462

Job: T1793

To:

NUINSCO RESOURCES LIMITED
908 The East Mall
Etobicoke, Ontario
M9B 6K2

RAINEY RIVER AREA

From February 1 to 15, 1997

Hole No.			
RR97-357	0.00	61.00	61.00 feet
RR97-358	0.00	27.00	27.00 feet
RR97-359	0.00	105.00	105.00 feet
RR97-360	0.00	125.00	125.00 feet
RR97-361	0.00	161.00	161.00 feet
RR97-362	0.00	118.00	118.00 feet
RR97-363	0.00	78.00	78.00 feet
RR97-364	0.00	130.00	130.00 feet
RR97-365	0.00	123.00	123.00 feet
RR97-366	0.00	114.00	114.00 feet
RR97-367	0.00	89.00	89.00 feet
RR97-368	0.00	62.00	62.00 feet
RR97-369	0.00	83.00	83.00 feet
RR97-370	0.00	62.00	62.00 feet
RR97-371	0.00	60.00	60.00 feet
RR97-372	0.00	67.00	67.00 feet
RR97-373	0.00	115.00	115.00 feet
RR97-374	0.00	65.00	65.00 feet
RR97-375	0.00	20.00	20.00 feet
RR97-376	0.00	120.00	120.00 feet
RR97-377	0.00	110.00	110.00 feet
RR97-378	0.00	60.00	60.00 feet
RR97-379	0.00	62.00	62.00 feet
RR97-380	0.00	122.00	122.00 feet
RR97-381	0.00	118.00	118.00 feet
RR97-382	0.00	82.00	82.00 feet
RR97-383	0.00	82.00	82.00 feet
RR97-384	0.00	80.00	80.00 feet
RR97-385	0.00	131.00	131.00 feet
RR97-386	0.00	142.00	142.00 feet
RR97-387	0.00	150.00	150.00 feet
RR97-388	0.00	135.00	135.00 feet
RR97-389	0.00	162.00	162.00 feet
RR97-390	0.00	192.00	192.00 feet
RR97-391	0.00	155.00	155.00 feet
RR97-392	0.00	42.00	42.00 feet
RR97-393	0.00	67.00	67.00 feet
RR97-394	0.00	100.00	100.00 feet

G.S.T.: #R140192204 Q.S.T.: #1017522805

CONTRACT DIAMOND DRILLING
98, 14th Street • P.O. Box 2367 • Rouyn-Noranda, Quebec J9X 5A9 CANADA

Tel.: (819) 797-0755 • Fax: (819) 797-0916

Bradley Bros. Limited

INVOICE

Date: February 28, 1997
Invoice No.: 000478
Page: 1 of 2
Job: T1793

To:
NUINSCO RESOURCES LIMITED
908 The East Mall
Etobicoke, Ontario
M9B 6K2

RAINEY RIVER AREA

From February 16 to 28, 1997

Hole No.					
RR97-394	100.00	105.00	5.00 feet		
RR97-395	0.00	110.00	110.00 feet		
RR97-396	0.00	115.00	115.00 feet		
RR97-397	0.00	115.00	115.00 feet		
RR97-398	0.00	132.00	132.00 feet		
RR97-399	0.00	128.00	128.00 feet		
RR97-400	0.00	98.00	98.00 feet		
RR97-401	0.00	110.00	110.00 feet		
RR97-402	0.00	78.00	78.00 feet		
RR97-403	0.00	105.00	105.00 feet		
RR97-404	0.00	135.00	135.00 feet		
RR97-405	0.00	80.00	80.00 feet		
RR97-406	0.00	70.00	70.00 feet		
RR97-407	0.00	30.00	30.00 feet		
RR97-408	0.00	75.00	75.00 feet		

Operating hours	58.00 hours	$170.00	$9,860.00
Muskeg	58.00 hours	47.00	2,726.00
Servicing	2.00 hours	170.00	340.00
Travel time - 6 days x 3 man	18.00 hours	35.00	630.00
	6.00 Pick up hours	30.00	180.00
Room & Board -	18.00 man days	65.00	1,170.00

2 Bits @ $685.00 = $1370.00
1 Sub @ 290.00 = 290.00
2 Rods @ 525.00 = 1050.00

$2710.00
Plus 15% 406.50 — 3,116.50

6#113 - 47011.95

G.S.T.: #R140192204 Q.S.T.: #1017522805

CONTRACT DIAMOND DRILLING
98, 14th Street • P.O. Box 2367 • Rouyn-Noranda, Quebec J9X 5A9 CANADA
Tel.: (819) 797-0755 • Fax: (819) 797-0916

Bradley Bros. Limited

INVOICE

Date: February 28, 1997

Invoice No.: 000478

Page: 2 of 2

Job: T1793

To:

NUINSCO RESOURCES LIMITED
908 The East Mall
Etobicoke, Ontario
M9B 6K2

RAINEY RIVER AREA

From February 16 to 28, 1997

Travel home -	36.00 man hours	$35.00	$1,260.00
	12.00 Pick up hours	30.00	360.00
			$19,642.50
		G.S.T.	1,374.98
			$21,017.48

G.S.T.: #R140192204 Q.S.T.: #1017522805

CONTRACT DIAMOND DRILLING
98, 14th Street • P.O. Box 2367 • Rouyn-Noranda, Quebec J9X 5A9 CANADA

Tel.: (819) 797-0755 • Fax: (819) 797-0916

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Limited

INVOICE

Date: March 31, 1997

Invoice No.: 000533

Job: T1793

NUINSCO RESOURCES LIMITED
908 The East Mall
Etobicoke, Ontario
M9B 6K2

COPY

RAINEY RIVER

From March 16 to 24, 1997

Hole No.					
RR99-433	0.00	99.00	99.00 feet		
RR99-434A	0.00	107.00	107.00 feet		
RR99-434	0.00	123.00	123.00 feet		
RR99-435	0.00	63.00	63.00 feet		
RR99-436	0.00	63.00	63.00 feet		
RR99-437	0.00	74.00	74.00 feet		
RR99-438	0.00	65.00	65.00 feet		
RR99-439	0.00	60.00	60.00 feet		
RR99-440	0.00	11.00	11.00 feet		
RR99-441	0.00	72.00	72.00 feet		
RR99-442	0.00	50.00	50.00 feet		
RR99-443	0.00	85.00	85.00 feet		
RR99-444	0.00	110.00	110.00 feet		
RR99-445	0.00	83.00	83.00 feet		
RR99-446	0.00	92.00	92.00 feet		
RR99-447	0.00	61.00	61.00 feet		
RR99-448	0.00	61.00	61.00 feet		
RR99-449	0.00	83.00	83.00 feet		
RR99-450	0.00	50.00	50.00 feet		
RR99-451	0.00	52.00	52.00 feet		
RR99-452	0.00	61.00	61.00 feet		
RR99-453	0.00	88.00	88.00 feet		
RR99-454	0.00	105.00	105.00 feet		
	Operating hours		70.00 hours	$170.00	$11,900.00
	Muskeg hours		70.00 hours	47.00	3,290.00
	Travel Time -				
	7 days x 3 men =		21.00 hours	35.00	735.00
	Pickup		7.00 hours	30.00	210.00
	Room and Board -				
	8 days x 3 men =		24.00 man days	65.00	1,560.00

G.S.T.: #R140192204 Q.S.T.: #1017522805

CONTRACT DIAMOND DRILLING
98, 14th Street • P.O. Box 2367 • Rouyn-Noranda, Quebec J9X 5A9 CANADA

Tel.: (819) 797-0755 • Fax: (819) 797-0916

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Limited

INVOICE

Date: March 31, 1997

Invoice No.: 000533

Job: T1793

NUINSCO RESOURCES LIMITED
908 The East Mall
Etobicoke, Ontario
M9B 6K2

COPY

RAINEY RIVER

From March 16 to 24, 1997

5 bits	@ $685.00 =	$3425.00		
1 sub	@ 290.00 =	290.00		
2 rods	@ 525.00 =	1050.00		
		$4765.00		
Plus 15%		714.75		$5,479.75
Demobilization				6,300.00
				$29,474.75
			G.S.T.	2,063.23
				$31,537.98

G.S.T.: #R140192204 Q.S.T.: #1017522805

CONTRACT DIAMOND DRILLING
98, 14th Street • P.O. Box 2367 • Rouyn-Noranda, Quebec J9X 5A9 CANADA

Tel.: (819) 797-0755 • Fax: (819) 797-0916

Bradley Bros. Limited

INVOICE

Date: March 15, 1997

Invoice No.: 000515

Page: 1 of 2

Job: T1793

To:

NUINSCO RESOURCES LIMITED
908 The East Mall
Etobicoke, Ontario
M9B 6K2

RAINEY RIVER

From March 1 to 15, 1997

Hole No.					
RR97-409	0.00	115.00	115.00 feet		
RR97-410	0.00	235.00	235.00 feet		
RR97-411	0.00	140.00	140.00 feet		
RR97-412	0.00	163.00	163.00 feet		
RR97-413	0.00	105.00	105.00 feet		
RR97-414	0.00	154.00	154.00 feet		
RR97-415	0.00	153.00	153.00 feet		
RR97-416	0.00	125.00	125.00 feet		
RR97-417	0.00	75.00	75.00 feet		
RR97-418	0.00	113.00	113.00 feet		
RR97-419	0.00	117.00	117.00 feet		
RR97-420	0.00	132.00	132.00 feet		
RR97-421	0.00	132.00	132.00 feet		
RR97-422	0.00	87.00	87.00 feet		
RR97-423	0.00	144.00	144.00 feet		
RR97-424	0.00	88.00	88.00 feet		
RR97-425	0.00	95.00	95.00 feet		
RR97-426	0.00	67.00	67.00 feet		
RR97-427	0.00	55.00	55.00 feet		
RR97-428	0.00	65.00	65.00 feet		
RR97-429	0.00	75.00	75.00 feet		
RR97-430	0.00	90.00	90.00 feet		
RR97-431	0.00	105.00	105.00 feet		
RR97-432	0.00	115.00	115.00 feet		
	Operating hours -		114.00 hours	$170.00	$19,380.00
	Servicing -		6.00 hours	170.00	1,020.00
	Muskeg -		114.00 hours	47.00	5,358.00
	Travel time -				
	12 days x 3 men		18.00 hours	35.00	630.00
			12.00 pick-up hours	30.00	360.00
	Room & Board -		36.00 man days	65.00	2,340.00

P.S.T.: #R140192204 Q.S.T.: #1017522805

6% F216 #37370.51

CONTRACT DIAMOND DRILLING
98, 14th Street • P.O. Box 2367 • Rouyn-Noranda, Quebec J9X 5A9 CANADA

Tel.: (819) 797-0755 • Fax: (819) 797-0916

Bradley Bros. Limited

INVOICE

Date: March 15, 1997

Invoice No.: 000515

Job: T1793

To:

NUINSCO RESOURCES LIMITED
908 The East Mall
Etobicoke, Ontario
M9B 6K2

RAINEY RIVER			
From March 1 to 15, 1997			
4 bits @ $685.00 = $2,740.00			
1 sub @ 290.00 = 290.00			
1 rod @ 525.00 = 525.00			
	$3,555.00		
Plus 15%	533.25		$4,088.25
Travel to site - 36.00 man hours		36.00	1,296.00
12.00 pick-up hours		30.00	360.00
			$34,832.25
		G.S.T.	2,438.26
			$37,270.51

G.S.T.: #R140192204 Q.S.T.: #1017522805

CONTRACT DIAMOND DRILLING
98, 14th Street • P.O. Box 2367 • Rouyn-Noranda, Quebec J9X 5A9 CANADA

Tel.: (819) 797-0755 • Fax: (819) 797-0916

OVERBURDEN DRILLING MANAGEMENT LIMITED
107-15 CAPELLA COURT, NEPEAN, ONTARIO, K2E 7X1
TELEPHONE: (613) 226-1771/1774
FAX: (613) 226-8753

TO: MR. D. HUME — DATE: 05-Feb-97

NUINSCO RESOURCES LIMITED — INVOICE # 0197107
908 The East Mall
Etobicoke, Ont.
M9B 6K2

RE: RR97 -- Layout and January Field Work

Consulting Services:					
Averill, S.	(office)			232.00	
Holmes, D.	(office)			630.00	
Duchene,	(office)			66.00	
Michaud, M.	(office)			360.00	
Collins, P.	(field)			6,460.00	
Rudnicki, B.	(field)			3,380.00	
Davidson, S.	(field)			3,800.00	
					$14,928.00
Equipment Rental:					
4x4 3/4 ton truck:	17 days @	$40.00	/day	680.00	
Truck mileage:	3025 km @	$0.33	/km	998.25	
Sampling supplies:	13 days @	$30.00	/day	390.00	
Shipping pails:	75 pails @	$1.00	/pail	75.00	
					$2,143.25
G.S.T. on O.D.M. services				1,194.99	
Expenses (before GST): as per attached					
Travel expenses (B. Rudnicki)					
- includes air fare, Avis rental				1,810.24	
Travel expenses (Collins & Davidson)					
- includes air fares, $Canadian expenses				1,457.49	
Travel expenses (Collins & Davidson)					
- $U.S. converted to $Canadian				184.64	
Ross's Resort lodging; rental vehicle fuel				2,975.60	
Office Expenses				342.36	
					$6,770.33
G.S.T. on applicable items				431.48	
TOTAL INVOICE G.S.T. (registration No. 10403 0812 RT)					$1,626.47
INVOICE TOTAL					$25,468.05

Stuart Averill
President

GL #022-4252605

OVERBURDEN DRILLING MANAGEMENT LIMITED
107-15 CAPELLA COURT, NEPEAN, ONTARIO, K2E 7X1
TELEPHONE: (613) 226-1771/1774
FAX: (613) 226-8753

TO: MR. D. HUME

DATE: 05-Mar-97

NUINSCO RESOURCES LIMITED
908 The East Mall
Etobicoke, Ont.
M9B 6K2

Job #106-40530.28

RE: RR97 - FEBRUARY FIELD WORK AND SAMPLE PROCESSING

INVOICE # 0297113

Consulting Services:

Averill, S.	(office)	1,218.00	
MacNeil, K.	(office)	240.00	
Collins, P.	(office)	775.50	
Duchene, L.	(office)	99.00	
MacNeil, K.	(field RC)	6,840.00	
MacNeil, K.	(field DD)	400.00	
Ansell, V.	(field)	1,960.00	
Rudnicki, B.	(field)	250.00	
Champagne, A.	(field)	4,000.00	
			$15,782.50

Laboratory Services:

192 overburden samples @	$38.00	7,296.00	
138 panningS (1st 20 VG) @	$20.00	2,760.00	
23 hrs. panning (>20 VG) @	$35.00	805.00	
1 hr. preparation of HMCs for FA/AA at Bondar-Clegg @	$35.00	35.00	
55 bedrock geochems @	$4.00	220.00	
192 sample disposal @	$1.00	192.00	
5 hrs. SEM prep time (Day, K.) @	$35.00	175.00	
5 SEM machine hrs. (1st five) @	$125.00	625.00	
4 SEM machine hrs. (> five)@	$75.00	300.00	
116 pages FAX transmission @	$1.00	116.00	
			$12,524.00

Equipment Rental:

4x4 3/4 ton truck:	21 days @	$40.00	/day	840.00
Truck mileage (**):	1500 km @	$0.33	/km	495.00
Sampling supplies:	21 days @	$30.00	/day	630.00
Shipping pails:	20 pails @	$1.00	/pail	20.00
				$1,985.00

G.S.T. on O.D.M. services 2,120.41

** approximation -- to be reconciled at end of field work

.../p.2

Expenses (before GST): as per attached		
Ross's Resort Invoice (Feb 01-21)	2,929.81	
Airline tickets (excluding Feb. 28)	1,924.32	
Shipping + office expenses	2,117.06	
MacNeil travel expenses	41.76	
Ansell travel expenses	59.80	
Rental truck (Feb. 03/04 crew change)	193.56	
Rental truck (Feb. 17-21)	309.12	
		$7,575.43
G.S.T. on applicable items	532.94	
TOTAL INVOICE G.S.T. (registration No. 10403 0812 RT)		$2,653.35
INVOICE TOTAL		$40,520.28

Stuart Averill
President

OVERBURDEN DRILLING MANAGEMENT LIMITED
107-15 CAPELLA COURT, NEPEAN, ONTARIO, K2E 7X1
TELEPHONE: (613) 226-1771/1774
FAX: (613) 226-8753

TO: MR. D. HUME

DATE: 07-Apr-97

NUINSCO RESOURCES LIMITED
908 The East Mall
Etobicoke, Ont.
M9B 6K2

Fax (416) 626-0890

RE: March field work, sample processing and office consulting

INVOICE # 0397130

Consulting Services:

Averill, S.	(office)	754.00	
MacNeil, K.	(office)	280.00	
Collins, P.	(office)	231.00	
Duchene, L.	(office)	132.00	
Collins, P.	(field)	2,295.00	
Ansell, V.	(field)	5,940.00	
Rudnicki, B.	(field)	6,437.50	
			$16,069.50

Laboratory Services: 376-01 to 384-02 (37 samples)
387-01 to 424-01 (182 samples)

219 overburden samples @	$38.00	8,322.00	
151 pannings (1st 20 VG) @	$20.00	3,020.00	
33 hrs. panning (>20 VG) @	$35.00	1,155.00	
49 bedrock geochems @	$4.00	196.00	
219 sample disposal @	$1.00	219.00	
112 pages FAX transmission @	$1.00	112.00	
			$13,024.00

Equipment Rental:

4x4 3/4 ton truck:	22 days @	$40.00	/day	880.00	
Truck mileage:	5678 km @	$0.33	/km	1,873.74	**
Sampling supplies:	19 days @	$30.00	/day	570.00	
Shipping pails:	95 pails @	$1.00	/pail	95.00	
					$3,418.74

G.S.T. on O.D.M. services 2,275.86

** total kilometers driven for entire job: 10,203
kilometers invoiced for January work: 3,025
kilometers invoiced for February work: 1,500
kilometers to be reconciled this invoice: 5,678

.../p.2

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MAY - 1 1997

Expenses (before GST): as per attached

Ross's Resort invoice		
- excluding ODM vehicle fuel costs	2,977.18	
Travel expenses (P. Collins)		
- includes air fare, motels, meals	633.74	
Travel expenses (V. Ansell)		
- includes air fare, truck rental, meals	1,303.55	
Accumulated shipping	1,725.31	
		$6,639.78
G.S.T. on applicable items	460.50	
TOTAL INVOICE G.S.T. (registration No. 10403 0812 RT)		$2,736.36
INVOICE TOTAL		$41,888.38

Stuart Averill
President

OVERBURDEN DRILLING MANAGEMENT LIMITED
107-15 CAPELLA COURT, NEPEAN, ONTARIO, K2E 7X1
TELEPHONE: (613) 226-1771 / 1774
FAX: (613) 226-8753

TO: MR. D. HUME / MR. J. WILSON
NUINSCO RESOURCES LIMITED
908 The East Mall
Etobicoke, Ont.
M9B 6K2

DATE: 01-May-97

RE: Ongoing office consulting costs;
Processing of sample Nos. 384-03 to 386-14 (29 samples) and
424-02 to 452-01 (87 samples)

INVOICE # 0497148

Consulting Services:			
Averill, S.		3,016.00	
Collins, P.		2,425.50	
Duchene, L.		924.00	
Michaud, M.		90.00	
			$6,455.50
Laboratory Services:			
116 overburden samples @	$38.00	4,408.00	
114 pannings (1st 20 VG) @	$20.00	2,280.00	
50 hrs. panning (>20 VG) @	$35.00	1,750.00	
30 bedrock geochems @	$4.00	120.00	
116 sample disposal @	$1.00	116.00	
2 lab hours (R. Huneault) @	$35.00	70.00	
1 lab hours (K. Day) @	$35.00	35.00	
3 SEM machine hrs. @	$125.00	375.00	
143 pages FAX transmission @	$1.00	143.00	
			$9,297.00
G.S.T. on O.D.M. services		1,102.68	
Expenses (before GST): as per attached			
Cabano-Kingsway sample shipping		184.90	
Dicom sample fraction / report shippings		72.80	
			$257.70
G.S.T. on applicable items		18.04	
TOTAL INVOICE G.S.T. (registration No. 10403 0812 RT)			$1,120.71
INVOICE TOTAL			$17,130.91

Stuart Averill
President

OVERBURDEN DRILLING MANAGEMENT LIMITED
107-15 CAPELLA COURT, NEPEAN, ONTARIO, K2E 7X1
TELEPHONE: (613) 226-1771/1774
FAX: (613) 226-8753

TO: MR. D. HUME

DATE: 05-Jun-97

NUINSCO RESOURCES LIMITED
908 The East Mall
Etobicoke, Ont.
M9B 6K2

Fax (416) 626-0890

RE: ON-GOING REPORT PREPARATIONS

INVOICE # 0597163

Consulting Services:		
Averill, S.	3,190.00	
Collins, P.	2,541.00	
Duchene, L.	660.00	
Michaud, M.	330.00	
		$6,721.00
G.S.T. on O.D.M. services	470.47	
Expenses (before GST): as per attached		
Various analysis, shipping, reproductions	444.09	
		$444.09
G.S.T. on applicable items	29.04	
TOTAL INVOICE G.S.T. (registration No. 10403 0812 RT)		$499.51
INVOICE TOTAL		$7,664.60

Stuart Averill
President

PAID
JUL 07 1997

Cheque #4044 - $7664.60

OVERBURDEN DRILLING MANAGEMENT LIMITED
107-15 CAPELLA COURT, NEPEAN, ONTARIO, K2E 7X1
TELEPHONE: (613) 226-1771/1774
FAX: (613) 226-8753

TO: MR. D. HUME DATE: 02-Jul-97

NUINSCO RESOURCES LIMITED
908 The East Mall
Etobicoke, Ont.
M9B 6K2

Fax (416) 626-0890

RE: ON-GOING REPORT PREPARATIONS

INVOICE # 0697174

Consulting Services:			
Averill, S.		3,538.00	
Collins, P.		2,310.00	
Duchene, L.		2,772.00	
Ansell, V.		1,170.00	
Michaud, M.		450.00	
Moore, R.		40.00	
			$10,280.00
Laboratory Services:			
1 hr. check pan (M. Crawford) @	$35.00	35.00	
6 hrs. SEM mounts made (K. Day) @	$35.00	210.00	
5 SEM machine hrs. @	$125.00	625.00	
13.25 SEM machine hrs. (>5 hrs.) @	$75.00	993.75	
			$1,863.75
G.S.T. on O.D.M. services		850.06	
Expenses (before GST): as per attached			
Various shipping, reproductions		223.42	
			$223.42
G.S.T. on applicable items		14.60	
TOTAL INVOICE G.S.T. (registration No. 10403 0812 RT)			$864.66
INVOICE TOTAL			$13,231.83

Stuart Averill
President

OVERBURDEN DRILLING MANAGEMENT LIMITED
107-15 CAPELLA COURT, NEPEAN, ONTARIO, K2E 7X1
TELEPHONE: (613) 226-1771/1774
FAX: (613) 226-8753

TO: MR. D. HUME DATE: 06-Aug-97

NUINSCO RESOURCES LIMITED
908 The East Mall
Etobicoke, Ont.
M9B 6K2

Fax (416) 626-0890

RE: Averill - Ayers - Archibald in Rainy River

INVOICE # 0797003

Consulting Services:		
Averill, S.	1,500.00	
		$1,500.00
G.S.T. on O.D.M. services	105.00	
Expenses (before GST): as per attached		
Air fare; rental vehicle; travel expenses	717.91	
		$717.91
G.S.T. on applicable items	49.07	
TOTAL INVOICE G.S.T. (registration No. 10403 0812 RT)		$154.07
INVOICE TOTAL		$2,371.98

Stuart Averill
President

OVERBURDEN DRILLING MANAGEMENT LIMITED
107-15 CAPELLA COURT, NEPEAN, ONTARIO, K2E 7X1
TELEPHONE: (613) 226-1771/1774
FAX: (613) 226-8753

TO: MR. D. HUME DATE: 07-Aug-97

NUINSCO PESOURCES LIMITED
908 The East Mall
Etobicoke, Ont.
M9B 6K2

Fax (416) 626-0890

RE: Final report costs - RR97

INVOICE # 0797002

Consulting Services:			
Averill, S.		6,090.00	
MacNeil, K.		240.00	
Duchene, L.		4,521.00	
Ansell, V.		930.00	
Michaud, M.		2,010.00	
Mosher, S.J.		60.00	
Papineau, K.		460.00	
			$14,311.00
Laboratory Services:			
3 hrs. mount prep. (K. Day) @	$35.00	105.00	
5 SEM machine hrs. @	$125.00	625.00	
9 SEM machine hrs. @	$75.00	675.00	
8 pages FAX transmission @	$1.00	8.00	
			$1,413.00
G.S.T. on O.D.M. services		1,100.68	
Expenses (before GST): as per attached			
Printing; section and map reproduction		2,003.44	
Accumulated FedEx shipping		74.69	
			$2,078.13
G.S.T. on applicable items		137.39	
TOTAL INVOICE G.S.T. (registration No. 10403 0812 RT)			$1,238.07
INVOICE TOTAL			$19,040.20

Stuart Averill
President

ACTLABS

ACTIVATION LABORATORIES LTD

revised - address changed to EMO

Invoice No.: 9764
Work Order: 9816
Invoice Date: 22-FEB-96
Date Submitted: 24-JAN-96
Your Reference: NONE
Account Number: 782
GST # R121979355

NUINSCO RESOURCES
RR#2
EMO, ONTARIO
P0W 1EZ
CANADA
ATTENTION: GEORGE ARCHIBALD

No. samples	Description	Unit Price	Total
19	1D ENHANCED	$ 13.00	$ 247.00
19	MILLING	$ 3.50	$ 66.50
		Subtotal :	$ 313.50
		GST (7.0%) :	$ 21.95
		AMOUNT DUE :	$ 335.45

Net 30 days 1 1/2 % per month charged on overdue accounts.

Post-it™ Fax Note 7671E | Date APRIL 24 | # of pages ▸ 4
To NUINSCO RES | From ACTLABS
Co./Dept. JIM WILSON | Co. JIM
Phone # 416 | Phone # 648-9611
Fax # 416-626-0890 | Fax # 648-9613

ACTLABS ACTIVATION LABORATORIES LTD

Invoice No.: 9799
Work Order: 9924
Invoice Date: 27-FEB-96
Date Submitted: 09-FEB-96
Your Reference: PUSKAS
Account Number: 782
GST # R121979355

NUINSCO RESOURCES
908 THE EAST MALL
ETOBICOKE, ONTARIO
M9B 6K6
CANADA
ATTENTION: GEORGE ARCHIBALD

No. samples	Description	Unit Price	Total
7	AU GRAVIMETRIC	$ 12.50	$ 87.50
		Subtotal :	$ 87.50
		GST (7.0%) :	$ 6.13
		AMOUNT DUE :	$ 93.63

Net 30 days 1 1/2 % per month charged on overdue accounts.

ACTLABS ACTIVATION LABORATORIES LTD

Invoice No.: 12447
Work Order: 12579
Invoice Date: 19-MAR-97
Date Submitted: 13-FEB-97
Your Reference: RR-97
Account Number: 1553
GST # R121979355

UINSCO RESOURCES LIMITED
08 THE EAST MALL
ETOBICOKE, ON
M4B 6K2

ATTN: JIM WILSON

No. samples	Description	Unit Price	Total
18	PULVERIZE	$ 4.00	$ 72.00
18	1E	$ 7.00	$ 126.00
18	4B	$ 25.00	$ 450.00
18	AU, AS	$ 10.00	$ 180.00
		Subtotal :	$ 828.00
		GST (7.0%) :	$ 57.96
		AMOUNT DUE :	$ 885.96

Net 30 days 1 1/2 % per month charged on overdue accounts.

1336 SANDHILL DRIVE, ANCASTER, ONTARIO, CANADA L9G 4V5 • TEL: 905-648-9611 • FAX: 905-648-9613

ACTLABS ACTIVATION LABORATORIES LTD

Invoice No.: 12446
Work Order: 12587
Invoice Date: 19-MAR-97
Date Submitted: 14-FEB-97
Your Reference: RR-97
Account Number: 1553
GST # R121979355

UINSCO RESOURCES LIMITED
08 THE EAST MALL
ETOBICOKE, ON
M4B 6K2

ATTN: JIM WILSON

No. samples	Description	Unit Price	Total
23	PULVERIZE	$ 4.00	$ 92.00
23	CU, ZN, AG, NI	$ 7.00	$ 161.00
23	4B	$ 25.00	$ 575.00
23	AU, AS	$ 10.00	$ 230.00
		Subtotal :	$ 1058.00
		GST (7.0%) :	$ 74.06
		AMOUNT DUE :	$ 1132.06

Net 30 days 1 1/2 % per month charged on overdue accounts.

1336 SANDHILL DRIVE, ANCASTER, ONTARIO, CANADA L9G 4V5 • TEL: 905-648-9611 • FAX: 905-648-9613

Inchcape Testing Services
Chimitec Ltée Bondar Clegg

1322, rue Harricana
Val d'Or (Québec) J9P 3X6
TÉL.: (819) 825-0178
FAX: (819) 825-0256

Invoice : 0187378, Page 1

NUINSCO RESOURCES LTD
908 THE EAST MALL
ETOBICOKE
ONTARIO M4B 6K2
C/O DOUG HUME/JIM WILSON

Date : 19-FEB-97

Report No: 097-40092.0
Project : RR-97
Reference: -

5 Analyses of Gold	at $10.25	$ 51.25	
Subtotal		$ 51.25	$ 51.25
Sample Preparation			
5 Samples of PULVERIZATION	at $ 5.00	$ 25.00	
Subtotal		$ 25.00	$ 25.00
Miscellaneous Charges			
Tax GST #R100576693		$ 5.34	
Subtotal		$ 5.34	$ 5.34
Invoice Total:			$ 81.59 Can.

6/4143 - # 81.59

COMPTE PAYABLE DÈS RÉCEPTION

ACTLABS

ACTIVATION LABORATORIES LTD

Invoice No.: 12500
Work Order: 12637
Invoice Date: 21-MAR-97
Date Submitted: 20-FEB-97
Your Reference: RR-97
Account Number: 1553
GST # R121979355

JINSCO RESOURCES LIMITED
908 THE EAST MALL
TOBICOKE, ON
4B 6K2

ATTN: JIM WILSON

No. samples	Description	Unit Price	Total
19	PULVERIZE	$ 4.00	$ 76.00
19	1E	$ 7.75	$ 147.25
17	4B	$ 27.00	$ 459.00
19	AU, AS IMPROVED	$ 11.00	$ 209.00
		Subtotal :	$ 891.25
		GST (7.0%) :	$ 62.39
		AMOUNT DUE :	$ 953.64

Net 30 days 1 1/2 % per month charged on overdue accounts.

GIC #18 : $953.64

1336 SANDHILL DRIVE, ANCASTER, ONTARIO, CANADA L9G 4V5 • TEL: 905-648-9611 • FAX: 905-648-9613

ACTLABS ACTIVATION LABORATORIES LTD

Invoice No.: 12641
Work Order: 12707
Invoice Date: 31-MAR-97
Date Submitted: 27-FEB-97
Your Reference: RR-97
Account Number: 1553
GST # R121979355

JUINSCO RESOURCES LIMITED
908 THE EAST MALL
ETOBICOKE, ON
M4B 6K2

ATTN: JIM WILSON

No. samples	Description	Unit Price	Total
144	PULVERIZE	$ 4.00	$ 576.00
144	3C	$ 8.00	$ 1152.00
135	AU, AS	$ 10.50	$ 1417.50
		Subtotal :	$ 3145.50
		GST (7.0%) :	$ 220.19
		AMOUNT DUE :	$ 3365.69

Net 30 days 1 1/2 % per month charged on overdue accounts.

1336 SANDHILL DRIVE, ANCASTER, ONTARIO, CANADA L9G 4V5 • TEL: 905-648-9611 • FAX: 905-648-9613

ACTLABS ACTIVATION LABORATORIES LTD

Invoice No.: 12545
Work Order: 12699
Invoice Date: 18-MAR-97
Date Submitted: 27-FEB-97
Your Reference: RR-97
Account Number: 1553
GST # R121979355

NUINSCO RESOURCES LIMITED
08 THE EAST MALL
ETOBICOKE, ON
M4B 6K2

TTN: JIM WILSON

o. samples	Description	Unit Price	Total
1	CRUSH AND MILL MILD	$ 6.00	$ 6.00
15	PULVERIZE	$ 4.00	$ 60.00
16	1D ENHANCED-AU, AS	$ 10.50	$ 168.00
16	1E	$ 7.75	$ 124.00
16	4B	$ 25.00	$ 400.00
		Subtotal :	$ 758.00
		GST (7.0%) :	$ 53.06
		AMOUNT DUE :	$ 811.06

et 30 days 1 1/2 % per month charged on overdue accounts.

1336 SANDHILL DRIVE, ANCASTER, ONTARIO, CANADA L9G 4V5 • TEL: 905-648-9611 • FAX: 905-648-9613

ACTLABS ACTIVATION LABORATORIES LTD

Invoice No.: 12587
Work Order: 12708
Invoice Date: 31-MAR-97
Date Submitted: 28-FEB-97
Your Reference: RR-97
Account Number: 1553
GST # R121979355

NUINSCO RESOURCES LIMITED
908 THE EAST MALL
ETOBICOKE, ON
M4B 6K2

ATTN: JIM WILSON

No. samples	Description	Unit Price	Total
3	1E	$ 7.75	$ 23.25
3	4B	$ 27.00	$ 81.00
3	AU, AS	$ 10.50	$ 31.50
3	MILLING	$ 4.00	$ 12.00
		Subtotal :	$ 147.75
		GST (7.0%) :	$ 10.34
		AMOUNT DUE :	$ 158.09

Net 30 days 1 1/2 % per month charged on overdue accounts.

1336 SANDHILL DRIVE, ANCASTER, ONTARIO, CANADA L9G 4V5 • TEL: 905-648-9611 • FAX: 905-648-9613

Inchcape Testing Services
Chimitec Ltée Bondar Clegg

1322, rue Harricana
Val d'Or (Québec) J9P 3X6
TÉL.: (819) 825-0178
FAX: (819) 825-0256

MUINSCO RESOURCES LTD
MR J. WILSON
908, THE EAST MALL
ETOBICOKE, ONTARIO
M4B 6K2

Invoice : [illegible]
Date : 28-FEB-97
Report No: C97-[illegible]
Project : KP-[illegible]
Reference: -

13 Analyses of Gold	at $10.25	$ 133.25	
13 Analyses of Test Weight	at $ 0.00	$ 0.00	
Subtotal		$ 133.25	$ 133.25
Sample Preparation			
1 Sample of CRUSH, SPLIT	at $ 2.50	$ 2.50	
13 Samples of PULVERIZATION	at $ 2.75	$ 35.75	
Subtotal		$ 38.25	$ 38.25
Miscellaneous Charges			
Tax GST #R100950914		$ 12.01	
Subtotal		$ 12.01	$ 12.01
Invoice Total:			$ 183.51 Can.

PAID
APR - 7 1997

Job #204 - $ 183.51

COMPTE PAYABLE DÈS RÉCEPTION

ACTLABS

ACTIVATION LABORATORIES LTD

Invoice No.: 12642
Work Order: 12733
Invoice Date: 31-MAR-97
Date Submitted: 03-MAR-97
Your Reference: RR-97
Account Number: 1553
GST # R121979355

NUINSCO RESOURCES LIMITED
908 THE EAST MALL
ETOBICOKE, ON
M4B 6K2

ATTN: JIM WILSON

No. samples	Description	Unit Price	Total
107	PULVERIZE	$ 4.00	$ 428.00
107	3C	$ 8.00	$ 856.00
107	AU, AS	$ 10.50	$ 1123.50
		Subtotal :	$ 2407.50
		GST (7.0%) :	$ 168.53
		AMOUNT DUE :	$ 2576.03

Net 30 days 1 1/2 % per month charged on overdue accounts.

ACTLABS

ACTIVATION LABORATORIES LTD

Invoice No.: 12628
Work Order: 12734
Invoice Date: 31-MAR-97
Date Submitted: 03-MAR-97
Your Reference: RR-97
Account Number: 1553
GST # R121979355

NUINSCO RESOURCES LIMITED
908 THE EAST MALL
ETOBICOKE, ON
M4B 6K2

ATTN: JIM WILSON

No. samples	Description	Unit Price	Total
12	PULVERIZE	$ 4.00	$ 48.00
12	3C	$ 8.00	$ 96.00
12	4B	$ 27.00	$ 324.00
12	AU, AS	$ 10.50	$ 126.00
		Subtotal :	$ 594.00
		GST (7.0%) :	$ 41.58
		AMOUNT DUE :	$ 635.58

Net 30 days 1 1/2 % per month charged on overdue accounts.

1336 SANDHILL DRIVE, ANCASTER, ONTARIO, CANADA L9G 4V5 • TEL: 905-648-9611 • FAX: 905-648-9613

ACTLABS ACTIVATION LABORATORIES LTD

Invoice No.: 12653
Work Order: 12791
Invoice Date: 02-APR-97
Date Submitted: 14-MAR-97
Your Reference: RR-97RC
Account Number: 1553
GST # R121979355

JUINSCO RESOURCES LIMITED
908 THE EAST MALL
ETOBICOKE, ON
M4B 6K2

ATTN: JIM WILSON

No. samples	Description	Unit Price	Total
72	PULVERIZE	$ 4.00	$ 288.00
72	3C	$ 8.00	$ 576.00
66	AU, AS	$ 10.50	$ 693.00
		Subtotal :	$ 1557.00

GST (7.0%) : $ 108.99

AMOUNT DUE : $ 1665.99

Net 30 days 1 1/2 % per month charged on overdue accounts.

1336 SANDHILL DRIVE, ANCASTER, ONTARIO, CANADA L9G 4V5 • TEL: 905-648-9611 • FAX: 905-648-9613

ACTLABS ACTIVATION LABORATORIES LTD

Invoice No.: 12637
Work Order: 12839
Invoice Date: 23-APR-97
Date Submitted: 20-MAR-97
Your Reference: RR-97
Account Number: 1553
GST # R121979355

IUINSCO RESOURCES LIMITED
908 THE EAST MALL
ETOBICOKE, ON
14B 6K2

ATTN: JIM WILSON

No. samples	Description	Unit Price	Total
13	PULVERIZE	$ 4.00	$ 52.00
13	AU, AS	$ 11.50	$ 149.50
13	CU, ZN, AG, NI	$ 7.75	$ 100.75
13	4B	$ 27.00	$ 351.00
		Subtotal :	$ 653.25
		GST (7.0%) :	$ 45.73
		AMOUNT DUE :	$ 698.98

Net 30 days 1 1/2 % per month charged on overdue accounts.

1336 SANDHILL DRIVE, ANCASTER, ONTARIO, CANADA L9G 4V5 • TEL: 905-648-9611 • FAX: 905-648-9613

ACTLABS ACTIVATION LABORATORIES LTD

Invoice No.: 12756
Work Order: 12863
Invoice Date: 23-APR-97
Date Submitted: 25-MAR-97
Your Reference: RR-97
Account Number: 1553
GST # R121979355

NUINSCO RESOURCES LIMITED
908 THE EAST MALL
ETOBICOKE, ON
M4B 6K2

ATTN: JIM WILSON

No. samples	Description	Unit Price	Total
23	PULVERIZE	$ 4.00	$ 92.00
23	AU, AS	$ 11.50	$ 264.50
23	CU, ZN, AG, NI	$ 7.75	$ 178.25
23	4B	$ 27.00	$ 621.00

Subtotal : $ 1155.75

GST (7.0%) : $ 80.90

AMOUNT DUE : $ 1236.65

Net 30 days 1 1/2 % per month charged on overdue accounts.

1336 SANDHILL DRIVE, ANCASTER, ONTARIO, CANADA L9G 4V5 • TEL: 905-648-9611 • FAX: 905-648-9613

ACTLABS ACTIVATION LABORATORIES LTD

Invoice No.: 12818
Work Order: 12855
Invoice Date: 12-MAY-97
Date Submitted: 01-APR-97
Your Reference: RR97
Account Number: 1553
GST # R121979355

JINSCO RESOURCES LIMITED
908 THE EAST MALL
ETOBICOKE, ON
4B 6K2

ATTN: JIM WILSON

No. samples	Description	Unit Price	Total
66	PULVERIZE	$ 4.00	$ 264.00
66	1E	$ 7.75	$ 511.50
73	AU, AS	$ 10.50	$ 766.50
		Subtotal :	$ 1542.00
		GST (7.0%) :	$ 107.94
		AMOUNT DUE :	$ 1649.94

Net 30 days 1 1/2 % per month charged on overdue accounts.

1336 SANDHILL DRIVE, ANCASTER, ONTARIO, CANADA L9G 4V5 • TEL: 905-648-9611 • FAX: 905-648-9613

ACTLABS

ACTIVATION LABORATORIES LTD

Invoice No.: 12796
Work Order: 12909
Invoice Date: 29-APR-97
Date Submitted: 02-APR-97
Your Reference: RR97
Account Number: 1553
GST # R121979355

MINSCO RESOURCES LIMITED
518 THE EAST MALL
ETOBICOKE, ON
M4B 6K2

ATTN: JIM WILSON

No. samples	Description	Unit Price	Total
20	CU, ZN, AG, NI	$ 7.75	$ 155.00
17	4B	$ 27.00	$ 459.00
20	AU, AS	$ 11.50	$ 230.00
20	PULVERIZE	$ 4.00	$ 80.00
		Subtotal :	$ 924.00
		GST (7.0%) :	$ 64.68
		AMOUNT DUE :	$ 988.68

Net 30 days 1 1/2 % per month charged on overdue accounts.

PAID
MAY 14 1997
Ck#0312 - $716633

1336 SANDHILL DRIVE, ANCASTER, ONTARIO, CANADA L9G 4V5 • TEL: 905-648-9611 • FAX: 905-648-9613

ACTLABS ACTIVATION LABORATORIES LTD

Invoice No.: 12918
Work Order: 13070
Invoice Date: 29-MAY-97
Date Submitted: 25-APR-97
Your Reference: RR-97
Account Number: 1554
GST # R121979355

JINSCO RESOURCES LIMITED
08 THE EAST MALL
ETOBICOKE, ON
M4B 6K2

ATTN: JIM WILSON

No. samples	Description	Unit Price	Total
66	PULVERIZE	$ 4.00	$ 264.00
66	3C	$ 8.00	$ 528.00
66	AU, AS	$ 10.50	$ 693.00
		Subtotal :	$ 1485.00
		GST (7.0%) :	$ 103.95
		AMOUNT DUE :	$ 1588.95

Net 30 days 1 1/2 % per month charged on overdue accounts.

1336 SANDHILL DRIVE, ANCASTER, ONTARIO, CANADA L9G 4V5 • TEL: 905-648-9611 • FAX: 905-648-9613

Intertek Testing Services

Chimitec **Bondar Clegg**

1322B rue Harricana
Val d'Or (Québec) J9P 3X6
TÉL: (819) 825-0178
FAX: (819) 825-0256

Invoice : 0078829. Page 1

NUINSCO RESOURCES LTD
908 THE EAST MALL
ETOBICOKE
ONTARIO M4B 6K2
C/O DOUG HUMS

Date : 27-APR-97

Report No: C97-60930.0
Project : RR-97
Reference: -

M9B 6K2

4 Analyses of Gold	at $10.25	$ 41.00	
Subtotal		$ 41.00	$ 41.00
Sample Preparation			
4 Samples of CRUSH/SPLIT & PULV.	at $ 2.75	$ 11.00	
Subtotal		$ 11.00	$ 11.00
Miscellaneous Charges			
Tax GST #R100950914		$ 3.64	
Subtotal		$ 3.64	$ 3.64
	Invoice Total:		$ 55.64 Can.

PAID
JUL 07 1997

GS #0399 - $185.32

Intertek Testing Services
Chimitec Bondar Clegg

1522B rue Harricana
Val d'Or (Québec) J9P 3X6
TÉL: (819) 825-0178
FAX: (819) 825-0256

Invoice : C073889, Page 1

NUINSCO RESOURCES LTD
908 THE EAST MALL
ETOBICOKE
ONTARIO M4B 6K2
C/O DOUG HUME

Date : 30-APR-97
Report No: C97-60946.0
Project : RR-97
Reference: -

8 Analyses of Gold	at $10.25	$ 82.00	
Subtotal		$ 82.00	$ 82.00
Sample Preparation			
8 Samples of CRUSH/SPLIT & PULV.	at $ 5.25	$ 42.00	
Subtotal		$ 42.00	$ 42.00
Miscellaneous Charges			
Tax GST #R100950914		$ 8.68	
Subtotal		$ 8.68	$ 8.68
Invoice Total:			$ 132.68 Can.

ACTLABS ACTIVATION LABORATORIES LTD

Invoice No.: 12918
Work Order: 13070
Invoice Date: 29-MAY-97
Date Submitted: 25-APR-97
Your Reference: RR-97
Account Number: 1554
GST # R121979355

NUINSCO RESOURCES LIMITED
908 THE EAST MALL
ETOBICOKE, ON
M4B 6K2

ATTN: JIM WILSON

No. samples	Description	Unit Price	Total
66	PULVERIZE	$ 4.00	$ 264.00
66	3C	$ 8.00	$ 528.00
66	AU, AS	$ 10.50	$ 693.00
		Subtotal :	$ 1485.00
		GST (7.0%) :	$ 103.95
		AMOUNT DUE :	$ 1588.95

Net 30 days 1 1/2 % per month charged on overdue accounts.

1336 SANDHILL DRIVE, ANCASTER, ONTARIO, CANADA L9G 4V5 • TEL: 905-648-9611 • FAX: 905-648-9613

Paul L. Jones, 27 Briarmoor Crescent, Ottawa, Ontario, K1T 3G7, 613 738 2248

Nuinsco Resources Limited,
908 The East Mall,
Etobicoke,ON,
M9B 6K2.
(03)

Invoice:March, 1997
G.S.T. Registration No:116064940

15 April, 1997

Invoice for professional fees and expenses pertaining to the Nuinsco Resources Limited exploration program in the Rainy River District, northwestern Ontario. Ongoing program supervision, interpretation, report writing, and general duties, March, 1997.

27 days @ $325/day	-	$ 8,775.00
G.S.T. @ 7%	-	$ 614.25
Expenses: As per attached sheet	-	~~$ 6,142.90~~ 5,294.77
Total	-	$15,532.15

Sincerely
Paul Jones

Paul Jones

APR - 1 1997

Cheq #254 - $ 15,532.15

Expense Report
Paul Jones, Geologist

Company: Nuinsco Resources Limited
Period Covered: March 1997

Invoice No	Comment	Amount	G.S.T.
001	Travel	110.27	6.30
002	" "	788.39	51.58
003	" "	306.38	24.34
004	" "	1422.03	93.03
005	PDAC	304.09	24.20
006	" "	685.35	47.51
007	" "	800.00	56.00
008	" "	186.69	11.38
009	" " 209507	122.94	7.62
010	Food	108.63	0.17
011	" "	32.07	
012	" "	25.10	
013	" "	40.95	1.35
014	" "	50.22	2.41
015	" "	29.60	1.18
016	" "	63.54	4.36
017	" "	48.00	3.36
018	Fuel	52.00	3.64
019	" "	39.69	2.57
020	Computers	~~848.13~~	~~51.63~~ No
021	Miscellany - Postage	12.04	0.79
022	" " - Office Mat	14.94	0.91
023	" " - Maps	26.35	1.65
024	" " - Taxi	20.00	
025	" " - Parking	5.50	
		~~6142.90~~	395.98

146.71

5294.77

Paul L. Jones, 27 Briarmoor Crescent, Ottawa, Ontario, K1T 3G7, 613 738 2248

Nuinsco Resources Limited,
908 The East Mall,
Etobicoke,ON,
M9B 6K2.
(02)

Invoice: February, 1997
G.S.T. Registration No:116064940

10 March, 1997

Invoice for professional fees and expenses pertaining to the Nuinsco Resources Limited exploration program in the Rainy River District, northwestern Ontario. Ongoing program supervision, interpretation, report writing, and general duties, February, 1997.

22 days @ $325/day	-	$ 7,150.00
G.S.T. @ 7%	-	$ 500.50
Expenses: As per attached sheet	-	~~$ 9,780.80~~ 3,722.87
Total	-	$17,431.30

Sincerely
Paul Jones

Paul Jones.

PAID
MAR 18 1997

Cheque #100 - $17431.30.

Expense Report
Paul Jones, Geologist

Company: Nuinsco Resources Limited
Period Covered: February 1997

Invoice No	Comment	Amount	G.S.T.
001	Food	41.01	0.72
002	" "	31.61	0.91
003	" "	57.42	2.51
004	" "	45.82	2.25
005	" "	11.79	
006	" "	16.90	
007	" "	16.76	0.02
008	" "	23.72	
009	" "	11.52	
010	" "	108.68	
011	" "	22.56	
012	" "	19.06	
013	Travel	685.35	44.84
014	" "	846.37	55.37
015	" "	36.90	
016	" "	5.00	
017	" "	372.60	17.09
018	" "	20.00	
019	" "	15.00	
020	Computers: Disks	70.12	4.27
021	Printer Ink Cartridges and Print Heads	127.53	7.76
022	Hardware	~~531.28~~	~~32.34~~
023	Hardware	~~1696.25~~	~~103.25~~
024	Geological	167.33	10.19
025	Fuel	57.83	3.78
026	" "	64.86	2.49
027	" "	42.83	2.78
028	Stationary	24.58	1.50
029	" "	11.53	0.69
030	Misc	390.53	28.93
031	" "	11.66	0.71
032	" "	26.79	1.63
033	" "	10.98	0.67
034	" "	11.50	0.75
035	" "	116.73	7.11
		200.00	
	Accomodation at Ross's Camp - Stephen Warner - 21 days	~~1340.64~~	~~83.79~~
	Accomodation at Ross's Camp - Geophysical Crew - 22 days	~~2489.76~~	~~155.61~~
	Total	9780.80	416.35

No

No

3722.97

Ontario Hydro

Box 580
205 Burwood Dr
Thunder Bay ON
P7C 4W4

NUINSCO RESOURCES LTD

Billing Date	Mar 12, 1997
NOW DUE	$ 261.30
After Apr 04, 1997	$ 273.51

Account: **9721 23 0632604**

ANY QUESTIONS? Please Call
Toll Free 1-800-465-3961
(807) 346-3800
Mon-Fri 8:30am-4:30pm EST

SERVICE: General/1G2-11

RICHARDSON TOWNSHIP H836437

Meter Readings

Feb 21	4447	Estimated
Jan 22	4197	
30 days	250x mult. 10 = 2500 kWh	

MESSAGES
Paid $270.55 Feb 26,97. Thank you!

MONTHLY BILL

Service Charge	27.95
2500 kWh @8.650¢	216.25
GST #R119382901	17.10
TOTAL	$261.30

MANAGING YOUR ELECTRICITY

	kWh/day	$/day
Present Bill	83	8.14
A Year Ago	95	9.18

After due date, bills have a 5% late payment charge.
Bills can be provided in English or French.

COMMENTS: NUINSCO RESOURCES LTD 807-428-1102 Mar 12, 1997 9721 23 0632604

TB1

93610 (front) rev 94 01

Ontario Hydro

Box 580
205 Burwood Dr
Thunder Bay ON
P7C 4W4

NUINSCO RESOURCES LTD

Billing Date	Apr 11, 1997
NOW DUE	$ 261.30
After May 02, 1997	$ 273.51

Account: **9721 23 0632604**

ANY QUESTIONS? Please Call
Toll Free 1-800-465-3961
(807)346-3800
Mon-Fri 8:30am-4:30pm EST

SERVICE: General/1G2-11

RICHARDSON TOWNSHIP H836437

Meter Readings

Mar 23	4697	Estimated
Feb 21	4447	
30 days	250 x mult. 10 = 2500 kWh	

MESSAGES
Paid $261.30 Mar 20,97. Thank you!

MONTHLY BILL

Service Charge	27.95
2500 kWh @8.650¢	216.25
GST #R119382901	17.10
TOTAL	$261.30

PAID
APR - 1 1997
#4697-A 2000

MANAGING YOUR ELECTRICITY

	kWh/day	$/day
Present Bill	83	8.14
A Year Ago	95	9.18

After due date, bills have a 5% late payment charge.
Bills can be provided in English or French.

COMMENTS: NUINSCO RESOURCES LTD 807-428-1102 Apr 11, 1997 9721 23 0632604

TB1

93610 (front) rev 94-01

Bell

ACCOUNT NUMBER **807 482 1102 (966)**

BILL DATE **March 28, 1997**

NUINSCO RESOURCES LTD

Inquiries 310-2355

ACCOUNT SUMMARY

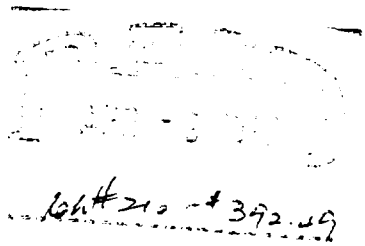
7482 1102 96604 001

Previous charges	
Amount of last bill	486.93
Payment received Mar 20 - Thank You	486.93cr
Adjustments	.00
Balance forward	**.00**

Payments and adjustments processed up to March 28, 1997 are reflected on this statement

Current charges	**392.49**

The late payment charge rate of interest is 1.00% monthly (12.68% per annum)



Please pay his amount upon receipt

Total amount due **392.49**

Long distance savings and discounts this month with Bell
$ 171.36

Recycled paper

** * * Detach here * * **

See reverse for more information

011**CBSO*B9B***00001222

Bell

ACCOUNT NUMBER **807 482 1102 (966)**

BILL DATE **February 28, 1997**

NUINSCO RESOURCES LTD

Inquiries 310-2355

ACCOUNT SUMMARY

7482 1102 96604 001

Previous charges	
Amount of last bill	435.36
Payment received Feb 5 - Thank You	435.36cr
Adjustments	.00
Balance forward	**.00**
Current charges	**486.93**

Payments and adjustments processed up to February 28, 1997 are reflected on this statement

The late payment charge rate of interest is 1.00% monthly (12.68% per annum)

PAID MAR 18 1997

on #110 - $ 486.93

Please pay this amount upon receipt

Total amount due **486.93**

Long distance savings and discounts this month with Bell
$ 258.51

Recycled paper

** * * Detach here * * **

See reverse for more information

Imperial Oil Esso L'Impériale

Account Number Numéro de Compte	Statement Date Date du Relevé	Payment Due By Payable Le	Days in Billing Period Jours dans une période de facturation
251 771 138 4	MAR 25 97	APR 19 97	28

Purchase Date Date d'Achat	Card No No de Carte	Invoice No No de Facture	Description Description	Amount Montant
			CREDIT LIMIT 600.00	
JAN 20	000	0933730	PHILLIPS PETR USA 23.85 @ 1.4050	33.51
JAN 26	000	0933715	PHILLIPS PETR USA 10.00 @ 1.4075	14.08
			CARD SUBTOTAL 000 47.59	
MAR 01	001	MEX07399	280 SCARLETT RD ETOBICOKE ON	33.02
MAR 12	001	MJW06867	2485 BLOOR ST W TORONTO ON	37.25
MAR 12	001	MKA00896	ROYAL YK/CHAPMAN WESTON ON	421.08
			CARD SUBTOTAL 001 491.35	
			AS OF THE DATE OF THIS STATEMENT, WE HAVE NOT RECEIVED A FULL PAYMENT FOR LAST MONTH. IF YOUR PAYMENT WAS SENT, BUT RECEIVED AFTER THE DUE DATE, IT WILL APPEAR ON YOUR NEXT STATEMENT. THANK YOU.	
			YOU HAVE EARNED YOUR ESSO REWARD THIS MONTH. LOOK INSIDE!	

To all cardholders: In order to avoid late fees, simply ensure that at least your minimum payment is received by us by the due date set out on your statement. Thank you.

To avoid additional finance charge we must receive payment of total new balance by payment due date shown above.

For account enquiries, please write to:
Les questions sur votre compte doivent être adressées à:

P.O. BOX 3815
MIP
MARKHAM, ON L3R 0Y2

For account information, address change, or to report lost or stolen card call:
Pour nous informer d'un changement d'adresse, une perte de carte, ou si vous avez besoin de renseignements sur votre compte, veuillez appeler:

1-800-454-3919

PAID

6n # 208 - $ 629.30

Previous Balance Solde Précédent		88.59
Payments/Credits Paiements/Crédits	-	.00
Finance/Credit Charges Frais de Crédit	+	1.77
Purchases/Charges Achats/Frais	+	538.94
Debits/Adjustments Redressements	+	.00
New Balance Nouveau Solde	=	629.30
Minimum Payment Paiement Minimum		50.00

#

NORLUND OIL LIMITED
BOX 266 EMO, ONTARIO P0W 1E0
PHONE COLLECT (807) 482-2680 FAX (807) 482-2014

PETRO-CANADA DISTRIBUTOR

PAYMENT DUE ON RECEIPT OF STATEMENT.
2% PER MONTH ON OVERDUE ACCOUNTS.

STATEMENT OF ACCOUNT

Nuinsco Resources Limited

908 East Mall,
Etobicoke, Ontario
M9B 6K2

STATEMENT DATE	ACCOUNT NO.
03-31-97	604

CREDIT LIMIT

DATE PAID _____ CHEQUE NO. _____ AMOUNT _____

TRANSACTION DATE	INVOICE NO.	DESCRIPTION	AMOUNT	BALANCE
03-18-97	0236	Invoice		222.23

PAID
APR - 7
Ck #183 - # 222.23

AGE	Current	31-60	Over 60	TOTAL
AMOUNT	222.23	0.00	0.00	222.23

NORLUND OIL LIMITED
BOX 266 EMO, ONTARIO P0W 1E0
PHONE COLLECT (807) 482-2680 FAX (807) 482-2014

PETRO-CANADA DISTRIBUTOR

PAYMENT DUE ON RECEIPT OF STATEMENT.
2% PER MONTH ON OVERDUE ACCOUNTS.

STATEMENT OF ACCOUNT

Nuinsco Resources Limited

908 East Mall,
Etobicoke, Ontario
M9B 6K2

STATEMENT DATE	ACCOUNT NO.
02-28-97	604

CREDIT LIMIT:

DATE PAID _____ CHEQUE NO. _____ AMOUNT _____

TRANSACTION DATE	INVOICE NO.	DESCRIPTION	AMOUNT	BALANCE
02-18-97	0109	Invoice		219.45

PAID
MAR 13 1997
Cheque #124 - $219.45

AGE	Current	31-60	Over 60	TOTAL
AMOUNT	219.45	0.00	0.00	219.45

Table 4 Total Footage (meters) per Claim or Patent

Township	Claim/Patent Number	RC Drill Hole Numbers	Total Meters Drilled	Work ($)
Richardson	10961	438	19.5	$2,007
	4768-9771	408, 436, 437	63.8	$6,569
	1210106	397, 398, 423	117.3	$12,078
	17392	399, 400, 419-422	207.3	$21,345
	17752	401, 417, 346, 347	120.9	$12,449
	12083	364, 409-413, 415, 416	349.2	$35,957
	7654	414, 361, 362	130.1	$13,396
	14665	418, 341, 342	90.0	$9,267
	13137	365-368	117.5	$12,098
	17110	430-432	93.0	$9,576
	5939	433, 433A, 434, 435	118.3	$12,181
	10273	369, 370	40.5	$4,170
	4529*	331-333, 343, 424-426	199.0	$20,491
	16342	340	29.8	$3,068
	18580	337, 338, 360	92.0	$9,473
	16630	339, 344, 345, 345A, 353, 354, 359	210.0	$21,623
	10746	355-357, 352	61.0	$6,281
	14196	348-351	26.4	$2,718
	1105422	358	8.4	$864
	8070*	328	25.5	$2,625
	4534	326, 327	54.7	$5,632
	11912*	329, 330, 427-429	125.1	$12,881
	22496*	321-325	168.1	$17,309
	5483	334-336	88.0	$9,061
	13514	363	23.5	$2,419
Tait	**1161594**	376-379, 381-386	296.0	$30,479
	1161595	380	36.5	$3,758
	17117	389-392	165.0	$16,990
	17112	393-396	119.0	$12,253
	1161602	402-407	149.3	$15,373
Sifton	17114	444-454	257.1	$26,473
	14622	371-373	69.5	$7,156
Pattullo	10842	387, 388	85.5	$8,803
			3,756.8	**$386.823**
***License of Occupation # 14925**			**517.7**	**$53,306**

Table 5 Ownership

Refer to attached ownership sheets for Patent Option details in Pattullo, Richardson, Sifton and Tait Townships.

Table Ownership and Work Applied on Patent Options

Mining Patent	Township	Location(Lot, Con.)	Assessment Credits
10961	Richardson	S1/2 #3, Con. 1	$2,007
4768-9771	Richardson	S1/2 #4, Con.1	$6,569
17392	Richardson	W1/2,S1/2 #8, Con.1	$21,345
17752	Richardson	W1/2,S1/2, #9 Con.1	$12,449
12083	Richardson	S1/2 #10 Con.1	$35,957
7654	Richardson	N1/2 #10 Con.1	$13,396
14665	Richardson	W1/2,N1/2 #9 Con.1	$9,267
13137	Richardson	S1/2 #1 Con.1	$12,098
17110	Richardson	S1/2 #6 Con.2	$9,576
5939	Richardson	N1/2 #5 Con. 1	$12,181
10273	Richardson	N1/2 #12 Con. 1	$4,170
4529*	Richardson	N1/2 #8 Con. 1	$20,491
16342	Richardson	E1/2,N1/2 #9 Con. 1	$3,068
18580	Richardson	E1/2,S1/2 #9 Con. 2	$9,473
16630	Richardson	W1/2,S1/2 #9 Con. 2	$21,623
10746	Richardson	N1/2 #10 Con. 2	$6,281
14196	Richardson	N1/2 #11 Con. 2	$2,718
8070	Richardson	W1/2,S1/2 #7 Con. 3	$2,625
4534	Richardson	W1/2,N1/2 #7 Con. 2	$5,632
11912*	Richardson	S1/2 #7 Con. 2	$12,881
22496*	Richardson	N1/2,S1/2 #8 Con. 2	$17,309
5483	Richardson	S1/2,S1/2 #8 Con. 2	$9,061
13514	Richardson	E1/2,N1/2 #11 Con. 1	$2,419
17117	Tait	NW1/4, Section 31	$16,990
17112	Tait	NE1/4, Section 31	$12,253
17114	Sifton	S1/2 #1 Con. 1	$26,473
14622	Sifton	N1/2 #1 Con. 1	$7,156
10842	Pattullo	SE1/4, Section 36	$8,803

*** LICENSE OF OCCUPATION (14925), RICHARDSON TWP.** **$53,306**

Pattullo Township

Nuinsco Resources Limited

Rainy River Patented Lands

Registered Owner	Address	Lot	Parcel	Sec.	Acreage	Acceptance (day/mo/yr)	RENEWAL DATES Payment	Paid	Anniv	Payment	Paid	Anniv	Payment
Desserre, Kenneth Desserre, Laverne	RR #1, Stratton On P0W 1N0	pt W1/2	12538	27	321.85	14/09/96	$3,220.00	ok	14/09/98	$3,200.00		14/09/00	
Hansen, Walter	RR #1, Stratton On P0W 1N0	SE1/4,NE1/4 E1/2, SE1/4	14494	35 35	 119.25	14/09/96	$1,200.00	ok	14/09/98	$1,200.00		14/09/00	purchase ?
Jewett, Doris Jewett, Blaine	RR #1, Stratton On P0W 1N0	SE1/4	21467	33	161.83	13/09/96	$1,620.00	ok	13/09/98	$1,620.00		13/09/00	purchase ?
Johnson Estate c/o Johnson, Edna (executor)	P.O. Box 323 Hudson Bay Saskatchewan S0E 0Y0	 SW 1/4 SE 1/4	 14975 10842	 36 36	 164 162	13/03/95	$3,260.00	ok	13/03/97	$3,260,00	ok	13/03/99	purchase ?
Martin, Timothy J. Martin, Donna, M.	RR # 1, Stratton On P0W 1N0	NW 1/4 SW 1/4 SE 1/4	5958 19802 11675	1 12 12	162 164 162	13/05/93 **13/5/97A**	$2,440.00	ok	13/05/98	purchase ?			
Neilson, Carman Neilson, Louise	RR #1, Stratton ON P0W 1N0	W1/2, SE1/4 SW1/4 SE1/4 NW1/4 NW1/4	7095 5725 7406 20983 3417	35 35 34 34 26	81 164 162 156.04 162 725.04	11/09/96	$7,251.00	ok	11/09/98	$7,251		11/09/00	purchase ?
Shrumm, C.E.	RR#1, Stratton On. P0W 1N0	NW1/4, NW1/4 NE1/4, NW1/4 NE1/4, SE1/4 NE1/4, NE1/4 NW1/4, SE1/4 NW1/4 W1/2, NE1/4	19063 19079 19467 17845 17972 10301 11666	28 28 29 3 10 2 18	40.5 40.5 40.5 40 40.5 162 {80}	11/09/96	$4,400.00 (see Tait)	ok	11/09/98	$4,400.00		11/09/98	purchase ?

A one year renewal

Richardson Township

Nuinsco Resources Limited

Rainy River Patented Lands

Registered Owner	Address	Lot	Parcel	Con.	Acres (actual)	Acceptance (day/mo/yr)	RENEWAL DATES							
							Payment	*Paid*	Date	Payment	*Paid*	Date	Payment	*Paid*
c/o Acheson, Luverne Bayerle, Marilyn Bayerle, Thomas Johnson, Duane Johnson, Rebecca Acheson, Kirby Johnson, Carroll Johnson, Victoria Johnson, Allan	19235 Panama Ave Prior Lake, Minn USA, 55372	N1/2,N1/2 # 4	16779	1	80	09/12/96	$800.00	ok	09/12/98	$800.00		09/12/00	**purchase ?**	
Baghdasarian, Varouj	22757 Stevens Creek Blvd., Cupertino, CA USA, 95014	W1/2,S1/2 # 8	17392	1	80	30/06/94	$800.00	ok	30/06/96	$800.00	ok	30/06/98	**purchase ?**	
c/o Stephen Burns Burns, K.P. Burns, R.D. Burns, B.R.	3 Park Lane, Madsen On. P0V 2C0	S1/2,N1/2 # 4	15916	1	78.98	on hold								
Caul, Wesley C. Caul, Diane, L.	RR # 1, Stratton, On. P0W 1N0	W1/2,N1/2 # 9	14665	1	79.1	08/10/92 **08/10/96A**	$400.00	ok	**08/10/97**	**purchase ?**				
Corley, Robert	1214 Gretchen Ave. Bossier City, Louisana USA, 71112	W1/2,S1/2 # 9	17752	1	80	29/12/94	$800.00	ok	29/12/96	$800.00	ok	29/12/98	**purchase ?**	
Croswell, Kevin	RR#1, Stratton, On P0W 1N0	N1/2 # 10	10746	2	159	06/02/96	$1,590.00	ok	06/02/98	$1,590.00		06/02/00	**purchase ?**	
Davis, Robert D. Davis, Janet N.	Box 3513, Fullerton C.A., USA, 92634	N1/2 # 4 S1/2 # 4	11087 92634	3 2	160 160	20/08/93			**20/08/97**	**purchase ?**				
Edwards, Garth Every, Barbara	4815-53St. Athabasca Alberta T9S 1K6	N1/2 # 11	14196	2	159	30/09/96	$1,590.00	ok	30/09/98	$1,590.00		30/09/00	**purchase ?**	
Elfving, Shahin S.	20 Waverley Place Hillsborough CA USA 94010	E1/2 # 6	14408	1	160 158.2	06/08/93			**06/08/97**	**purchase ?**				
Georgeson, Daniel	RR # 1, Stratton On. P0W 1N0	S1/2 # 7	14462	1	158	09/03/94			09/03/98	**purchase ?**				

A; amended agreement

Richardson Township

Nuinsco Resources Limited

Rainy River Patented Lands

Registered Owner	Address	Lot	Parcel	Con.	Acres (actual)	Acceptance (day/mo/yr)	RENEWAL DATES							
							Payment	*Paid*	Date	Payment	*Paid*	Date	Payment	*Paid*
Georgeson, Floyd	RR # 1, Stratton, On. P0W 1N0	W1/2,N1/2 # 7 S1/2,S1/2 # 8	4534 5483	2 2	79 76.58 77.37	02/05/92 **02/05/96 A** **02/05/97 A**	$777.90	ok	02/05/98	**purchase ?**				
Gibbs, Barbara Gibbs, John	P.O. Box 143 Keremeo, B.C. V0X 1N0	N1/2, #11 S1/2, #11	10152 16754	3 3	159.5 159.5 319	14/09/96	$3,200.00	ok	14/09/98	$3,200.00		14/09/00	**purchase ?**	
(former Hendrick) **Nuinsco Resources**	Etobicoke, On	W1/2,S1/2 # 9	16630	2	78.5	17/10/96	Purchased Lot							
Huitika, Reino Pattison, Helen	Fort Francis addresses	N1/2,S1/2 # 3 N1/2 # 3	11326 8742	2 2	80 160	11/05/93			11/05/97	$2,400.00	ok	11/05/99	**purchase ?**	
c/o Jackson, Barry Jackson, Cheryl Jackson, Russell Jackson, Janet	Route 1, Box 656 Wyoming, ILL, USA 61491	N1/2 # 5 S1/2 # 5	5939 5614	1 1	154.09 158.01	29/03/94	$3,054.00	ok	29/03/96	$3,054.00	ok	29/03/98	**purchase ?**	
c/o Kereliuk, Alex Pattison, Helen	750 First St. W. Fort Francis, On. P9A 2Z2	S1/2,S1/2 # 3	4635	2	80	12/05/93			12/05/98	**purchase ?**				
Kereliuk, K. (decd)		N1/2 # 2	10341	2	159.5	20/07/92 **20/07/96 A**	$1,600.00	ok	**20/07/97**	**purchase ?**				
Krissie, Herbert Cuddy, Clara	1798 Stewart Ave. Medford, Oregon USA, 97501	N1/2,N1/2 # 3	18204	1	80	12/09/94			12/09/98	**purchase ?**				
LaFever, David L. LaFever, Joseph E. Kistler, Wendell R. Pape, Gordon, G.	2509 Sunrise Lane Burlington, Iowa USA 52601	S1/2 # 6	17110	2	155.98	17/05/92 **17/05/96 A** **17/05/97 A**	$780.00	ok	17/05/98	**purchase ?**				
Leblanc, Robert Leblanc, Loretta	RR # 1, Stratton, On P0W 1N0	N1/2, # 12	7180	2	206	16/01/96	(See Sifton	Twp.	for details)					
Leblanc, Robert Leblanc, Loretta Leblanc, Clement	RR # 1, Stratton, On POW 1N0	W1/2, S1/2 #12	7320	2	104.64	16/01/96	$1,046.40	ok	16/01/98	$1,046.40		16/01/00	**purchase ?**	

Richardson Township

Nuinsco Resources Limited

Rainy River Patented Lands

Registered Owner	Address	Lot	Parcel	Con.	Acres (actual)	Acceptance (day/mo/yr)	RENEWAL DATES Payment	Paid	Date	Payment	Paid	Date	Payment	Paid
Loveday, Evelyn	RR # 2, Emo, On. P0W 1E0	S1/2,S1/2 # 4	9080	3	80	28/04/92 14/04/96 A **28/04/97 A**	$400.00	ok	28/04/98	**purchase ?**				
McClain, Alvin E. McClain, Carol A.	RR # 2, Stratton, On. P0W 1N0	S1/2 # 5	11409	2	160 157.28	14/08/93	$1,600.00	ok	14/08/95	$1,600.00	ok	**14/08/97**	**purchase ?**	
Morrison, Jack E. Morrison, Linda G.	11 Forest Dr., Bethany On. L0A 1A0	W1/2 # 6	14407	1	160 158.76	03/08/93	$1,600.00	ok	03/08/95	$1,600.00	ok	**03/08/97**	**purchase ?**	
Mose, Ed	Emo, On. P0W 1E0	N1/2, S1/2 # 6	16927	3	80	08/04/92	not renewed							
Munro, C. Joyce	RR # 1, Stratton On. P0W 1N0	E1/2,N1/2 # 11	13514	1	78.96	03/09/92 **03/09/96 A**	$395.00	ok	**03/09/97**	**purchase ?**				
Neilson, Colin, N. Neilson, Patricia	RR # 1, Stratton ON P0W1N0	N1/2, # 12 S1/2 # 11 W1/2, N1/2 # 11 S1/2 # 5	10273 13137 13467 18273	1 1 1 2	208.5 160 80 [150]	15/05/96	$5,985.00 see Sifton	ok	15/05/98	$5,985.00		15/05/00	**purchase ?**	
Nuinsco Resources	Etobicoke, On	S1/2 # 6	10843	3	2	13/10/94	$2,500.00	(purchased lot)						
c/o Olivas, John Olivas, Beatrice Vigil, Eddie Vigil, Bertha	P.O. Box 122 Red Feather Lakes Colo. USA 80545	E1/2, S1/2 #9	18580	2	78.3	21/08/96	$783.00	ok	21/08/98	$783.00		21/08/00	**purchase ?**	
Roen, Howard C. Roen, Evelyn R.	RR # 1,Stratton On. P0W 1N0	pt S1/2 # 6 N1/2 # 6 N1/2 # 4	21129 17154 10029	3 2 2	78 160 159	17/08/93	$3.970.00	ok	17/08/95	$3,970.00	ok	**17/08/97**	**purchase ?**	
Roen, Tom Roen, Tracy	Box 542, Emo On. P0W 1E0	E1/2,N1/2 # 9 (see also Tait Twp)	16342	1	79	18/01/96	$1,600.00	ok	18/01/98	$1,600.00		18/01/00	**purchase ?**	
Strom, D.W. Strom, L.J.	RR 1, Fort Francis ON. P9A 3M2	N1/2,S1/2 # 4	14604	3	80	01/05/92 **01/05/96 A**	$400.00	ok	01/05/97	purchase	no	**(expired)**		
Teeple, Douglas I. Teeple, Vesta M. Corrigan B.J. (owns parcel 12083)	RR # 1, Stratton, On. P0W 1N0	N1/2 # 10 S1/2 # 10 S1/2 # 4 S1/2 # 3 S1/2,N1/2 # 3	7654 12083 4768-9771 10961 14986	1 1 1 1 1	158 160 153.78 160 80	09/09/94	$7,117.80	ok	09/09/96	$7,117.80	ok	09/09/98	**purchase ?**	

Richardson Township

Nuinsco Resources Limited

Rainy River Patented Lands

Registered Owner	Address	Lot	Parcel	Con.	Acres (actual)	Acceptance (day/mo/yr)	RENEWAL DATES
Wepruk, Paul	Site 101-13, RR#1 Fort Francis, On P9A 3M2	N1/2 # 7	4950	1	158	16/04/92 **14/04/96 A** **14/04/97 A**	Payment: $790.00 — Paid: **ok** — Date: 16/04/98 — Payment: **purchase ?**
ARDA	933 Ramsey Lake Rd. 6th Floor, Sudbury On. P3E 6B5	S1/2 # 8 W1/2,S1/2 # 7 N1/2,S1/2 # 8 S1/2 # 7 N1/2 # 8 E1/2,N1/2 # 7 N1/2 # 8	4947 8070 22496 11912 4259 22495 14238	3 3 2 2 1 2 3	159.5 80 79.25 158 157.27 79 159.5 872.52	01/07/93	See Claim Summary For Assessment Requirements

Sifton Township

Nuinsco Resources Limited

Rainy River Patented Lands

Registered Owner	Address	Lot	Parcel	Con.	Acreage	Acceptance (day/mo/yr)	RENEWAL DATES Payment	Paid	Date	Payment	Paid	Date	Payment
H.R. Crawford Estate c/o Crawford, Catherine Crawford, Gerald	330 Obsidian Dr. Oakdale, Calif. USA. 95361	S1/2 # 1	17114	1	160	25/03/97	$1,600.00	ok	25/03/99	**purchase ?**			
Gerula, Brian	RR # 1, Stratton On. P0W 1N0	S1/2 # 2	8683	3	161	10/03/95			10/03/99	**purchase ?**			
Gerula, Helen	RR # 1, Stratton On. P0W 1N0	N1/2 # 1	13001 13015 13117	2 2 2	157.87	10/03/95			10/03/99	**purchase ?**			
		N1/2 # 3 W1/2, S1/2 # 3 S1/2, N1/2 # 4	14386 14681	2 2	319.75								
Leblanc, Robert Leblanc, Loretta	RR # 1, Stratton ON P0W 1N0	S1/2 # 1 N1/2 # 2 S3/4 # 1 N1/2 # 2	9119 13448 8201 10798 10271	2 2 3 3	158.29 160 396 714.29	16/01/96 (see also Richardson Township)	$9,202.90	ok	16/01/98	$9,202.90		16/01/00	**purchase ?**
Neilson, Colin N. Neilson, Patricia, D.	RR #1, Stratton ON P0W 1N0	S1/2, # 5	18273	2	150	15/05/96	see Richardson Twp for details						
Strom, Leonard	14 Vincienne St. Atikokan, On. P0T 1C0	N1/2 # 1	14622	1	160	24/03/95			24/03/99	**purchase ?**			

Tait Township

Nuinsco Resources Limited

Rainy River Patented Lands

Registered Owner	Address	Lot	Parcel	Section	Acreage	Acceptance (day/mo/yr)	RENEWAL DATES Payment	Paid	Date	Payment	Paid	Date	Payment
Jasinski, Ireneus	11171 Autumn Valley Lane, Frankfort, ILL. USA 60424	W1/2, NE1/4	16831	19	80	15/06/94			15/06/98	**purchase ?**			
Leininger, Robert E.	1332 Ridgefield Rd. Freeport, ILL. 61032	E1/2, NE1/4	10539	19	80	15/09/94			15/09/98	**purchase ?**			
Leblanc, Robert Leblanc, Robin	RR # 1, Stratton On P0W 1N0	NE 1/4 NW 1/4	17112 17117	31 31	153 148	16/01/96	$3,010.00	**ok**	16/01/98	$3,010.00		16/01/00	**purchase ?**
Morken, Sharon A.	Box 501, Kenora On. P9N 3X5	SW1/4, SE1/4 NW1/4 SE1/4, SW1/4	8230 14898 8230	29 20 19	40.5 162 36.5	28/06/94			28/06/98	**purchase ?**			
Murry, William L. Murry, M.I.	P.O. Box 77 Wheeling, MO USA 64688	E1/2, SW1/4	14204	33	82	02/07/94			02/07/98	**purchase ?**			
Nystel, Joseph W. Nystel, Donna	195 Guildford Forge Universal City, TX USA 78148-3612	SW1/4	13528	32	164	22/06/94			22/06/98	**purchase ?**			
Roberts, Gary	1310 Township Rd. 126, New London, OH USA 44851	S1/2, NE1/4	8104	30	80	07/07/94			07/07/98	**purchase ?**			
Roen, Tom Roen, Tracy	Box 542, Emo On. P0W 1E0	N1/2, SE1/4	14464	34	81.1	18/01/96	(see Richardson Twp for details)						
Shrumm, C.E.	RR#1, Stratton, On P0W 1N0	W1/2, NE1/4	11666	18	80	11/09/96	(see Pattullo Twp for details)						
Teeple, Lisa Teeple, Gary	RR# 2, Emo, On. P0W 1E0	NW1/4	21172	35	156	07/12/94			07/12/98	**purchase ?**			
Teeple, Douglas D. Teeple, Vesta M.	RR1, Stratton, On P0W 1N0	NW 1/4 NE 1/4	16623 5490	36 35	156 154	02/09/95	$3,100.00	**ok**	**02/09/97**	$3,100.00		02/09/99	**purchase ?**

Tait Township

Nuinsco Resources Limited

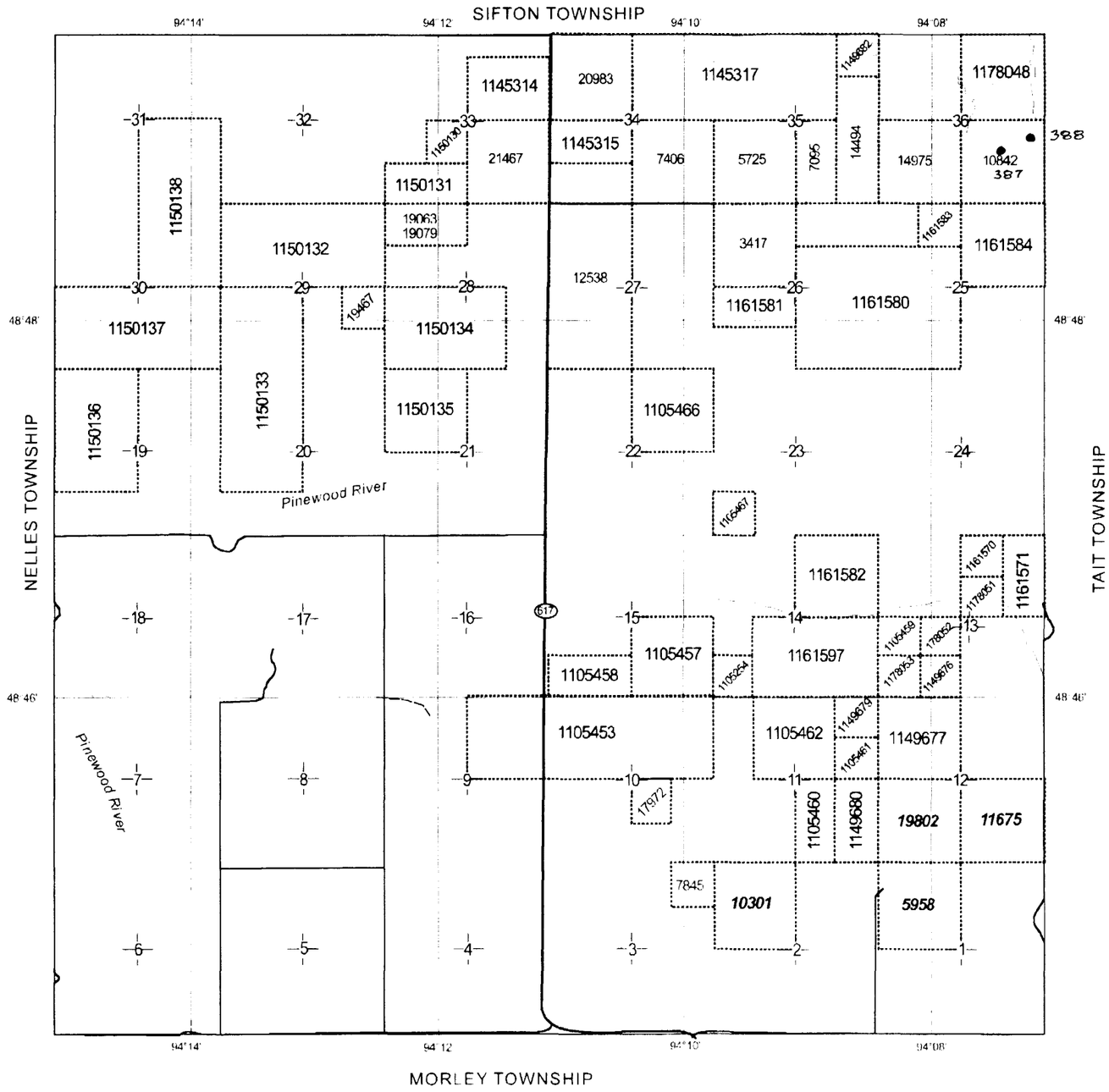
Rainy River Patented Lands

Registered Owner	Address	Lot	Parcel	Section	Acreage	Acceptance (day/mo/yr)	RENEWAL DATES						
							Payment	*Paid*	Date	Payment	*Paid*	Date	Payment
Teeple, James E. Teeple, Alwine	RR1, Stratton, On P0W 1N0	SE 1/4	2729	36	161	02/09/95	$1,610.00	ok	**02/09/97**	$1,610.00		02/09/99	**purchase ?**
Teeple, John E. Teeple, Helen E.	RR1, Stratton, On P0W 1N0	SW 1/4	8386	36	164	02/09/95	$1,640.00	ok	**02/09/97**	$1,640.00		02/09/99	**purchase ?**
Tell, Doris A.	5116 Lakeside Ave. N. Minneapolis, MINN USA 55429	NW1/4 E1/2, SE1/4	15164 11058	29 31	162 81	30/06/94			30/06/98	**purchase ?**			
501801 On. Ltd. (Both, Steve)	c/o Crozier Auto RR#1, Fort Frances On. P9A 3M2	W1/2, NE1/4	19148	20	80	28/09/94			28/09/98	**purchase ?**			
Vaughn, Loren	10421, N 11th St., Unit 1 Phoenix, Ariz. USA	SE 1/4	9920	30	162	5/28/97	$1,620.00	ok	5/28/99	$1,620.00		5/28/01	**purchase ?**

MAP POCKET

LOCATION MAPS
REVERSE CIRCULATION DRILL HOLE COLLARS

Rainy River Project
Work Report
1997 Reverse Circulation Drill Data
Paul Jones, Project Geologist
August, 1997



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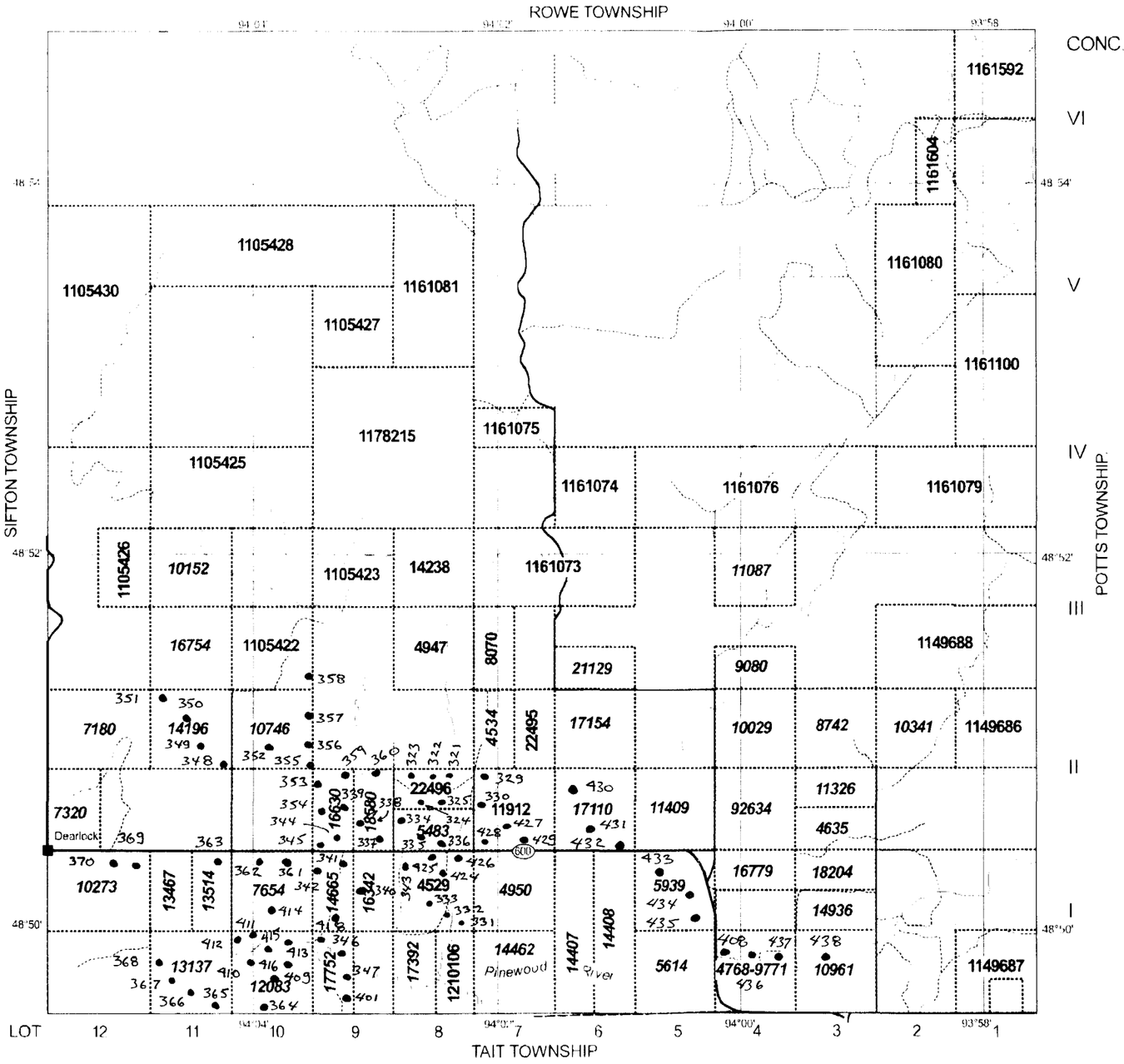
kilometres

Property Map

Pattullo Township

Rainy River District, Northwestern Ontario

Nuinsco RESOURCES LIMITED



Property Map

Richardson Township

Rainy River District, Northwestern Ontario

Nuinsco RESOURCES LIMITED

DEWART TOWNSHIP

94°12' 94°10' 94°08' 94°06'

CONCESSION

VI

V

IV

III

II

I

48°54'

48°52'

48°50'

SUTHERLAND TOWNSHIP

RICHARDSON TOWNSHIP

PATTULLO TOWNSHIP

LOT 12 11 10 9 8 7 6 5 4 3 2 1

1161313

1161314

1178054

1161315

10798
10271

1178056

1178055

8683

8201

13001
13015
13117

14386

13448

14681

18273

14681

1150141

9119

Dearlock

1150129

14622

373 372 371

1150142

1145318

17114

1145316

North Branch

600

617

Kishkakoesis River

454

444 453 449 450

445 448 451

446 447 452

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Scale 1:40,000

0 1 2

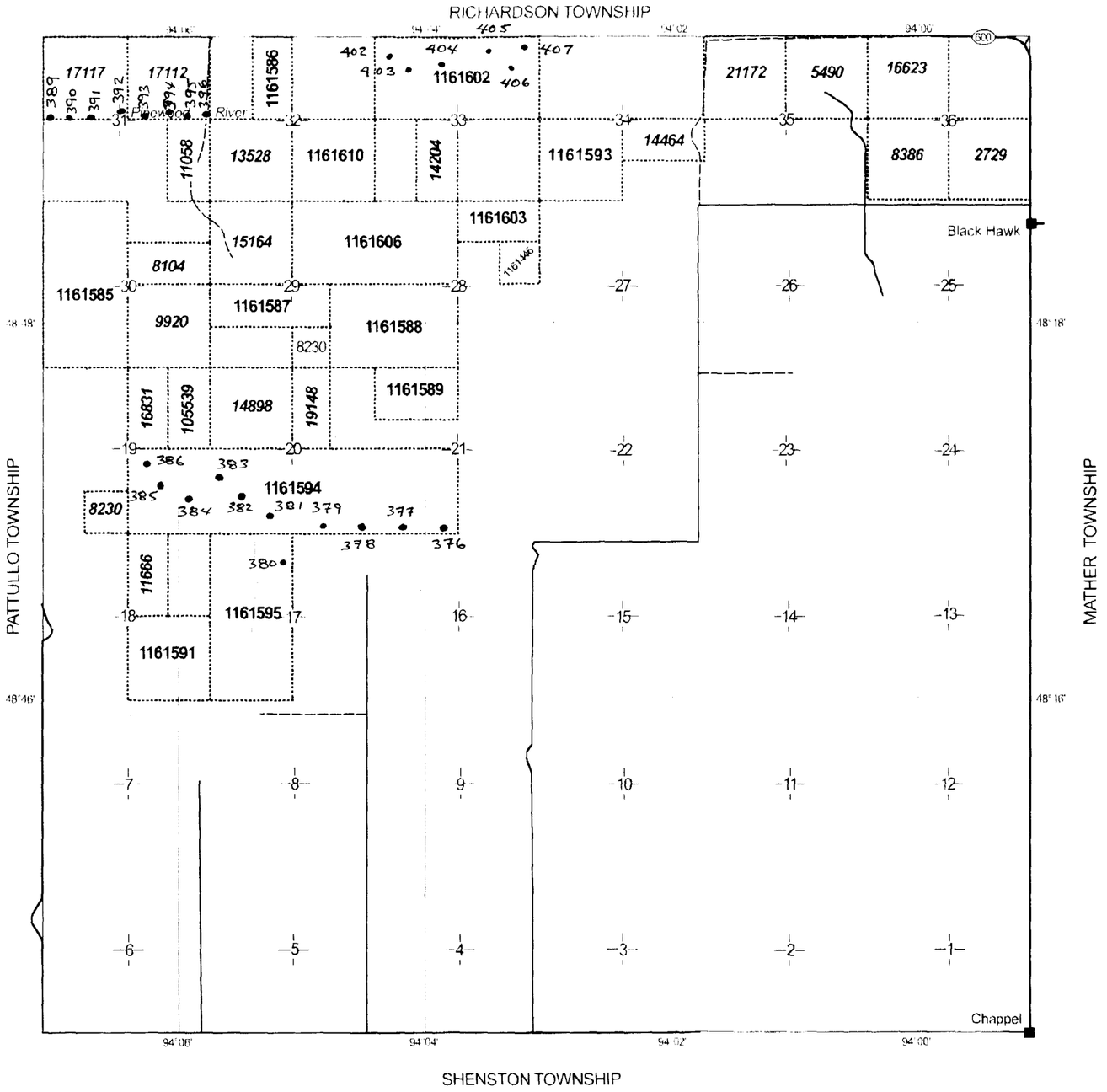
kilometres

Property Map

Sifton Township

Rainy River District, Northwestern Ontario

Nuinsco RESOURCES LIMITED

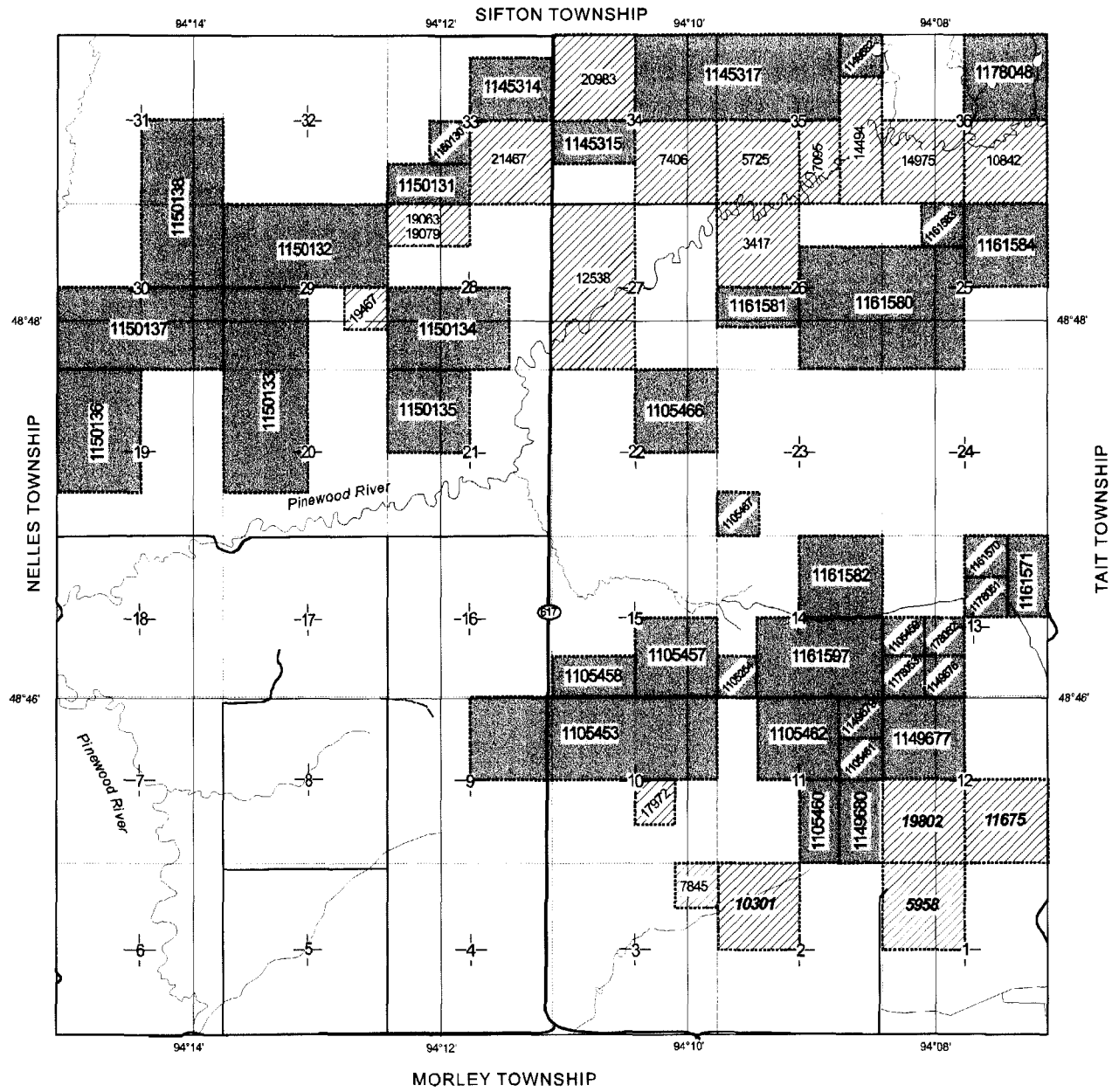


Property Map

Tait Township

Rainy River District, Northwestern Ontario

Nuinsco RESOURCES LIMITED

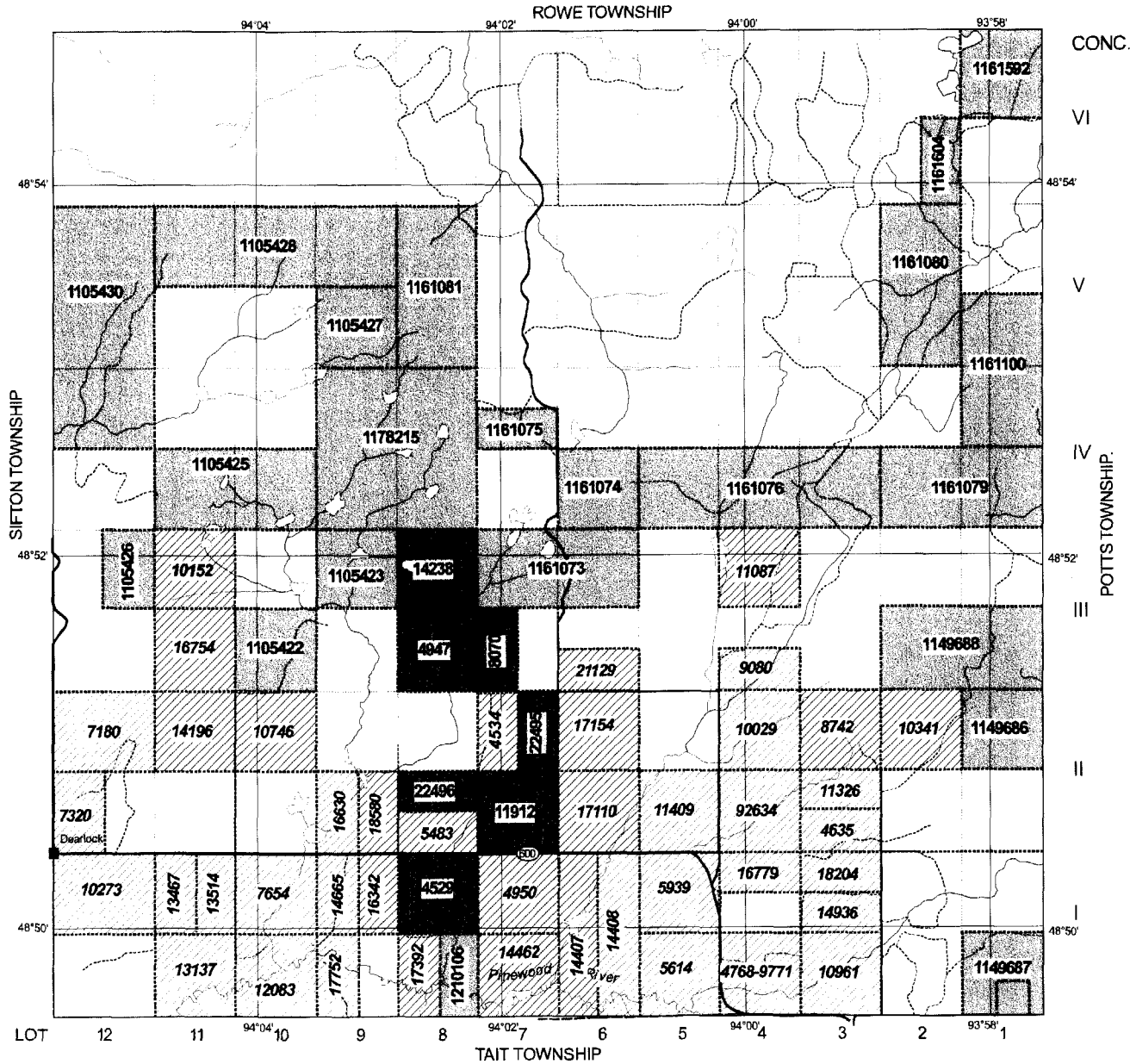


Property Map

Pattullo Township

Rainy River District, Northwestern Ontario

Nuinsco RESOURCES LIMITED



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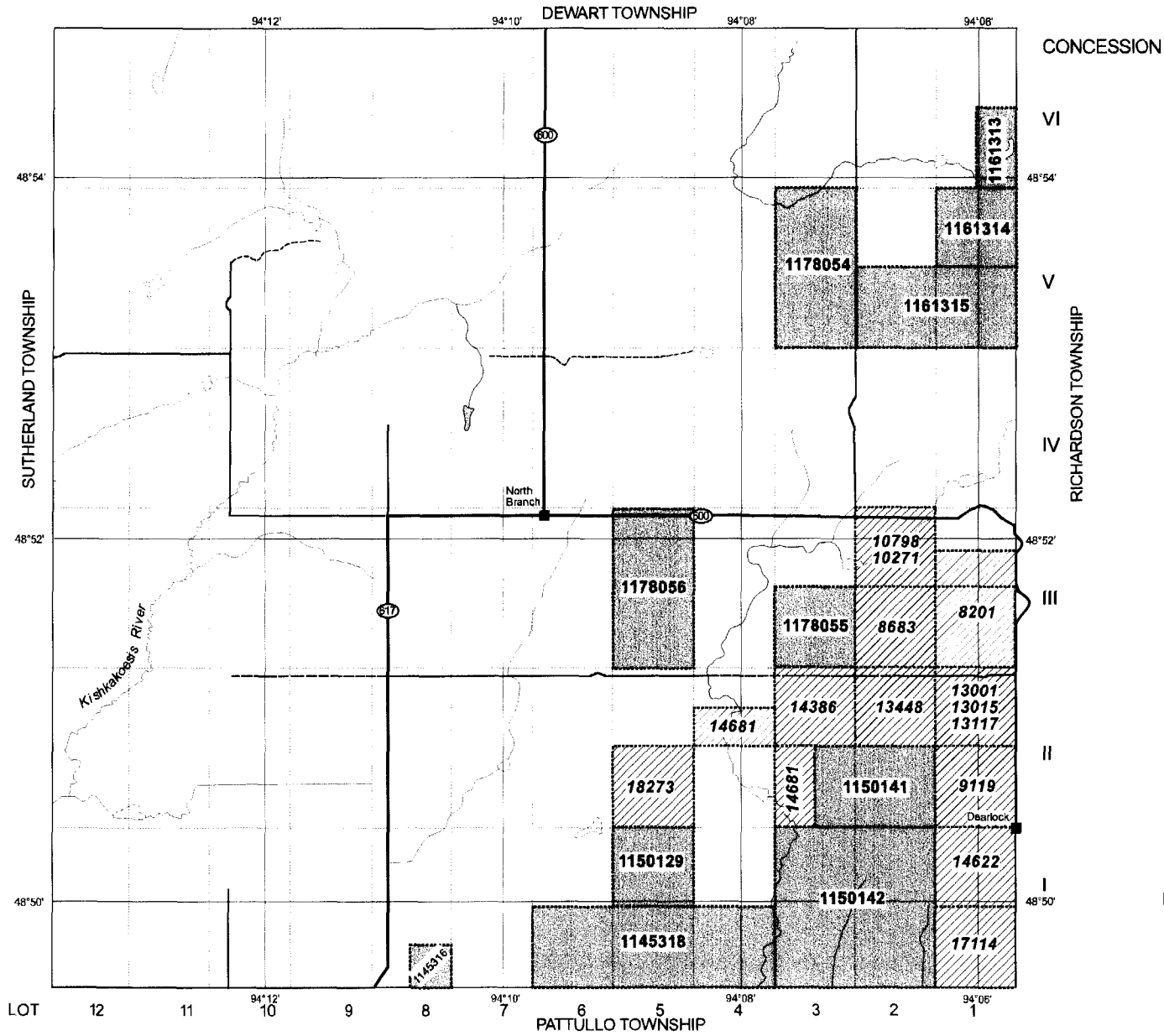
Property Map

Richardson Township

Rainy River District, Northwestern Ontario

Nuinsco RESOURCES LIMITED



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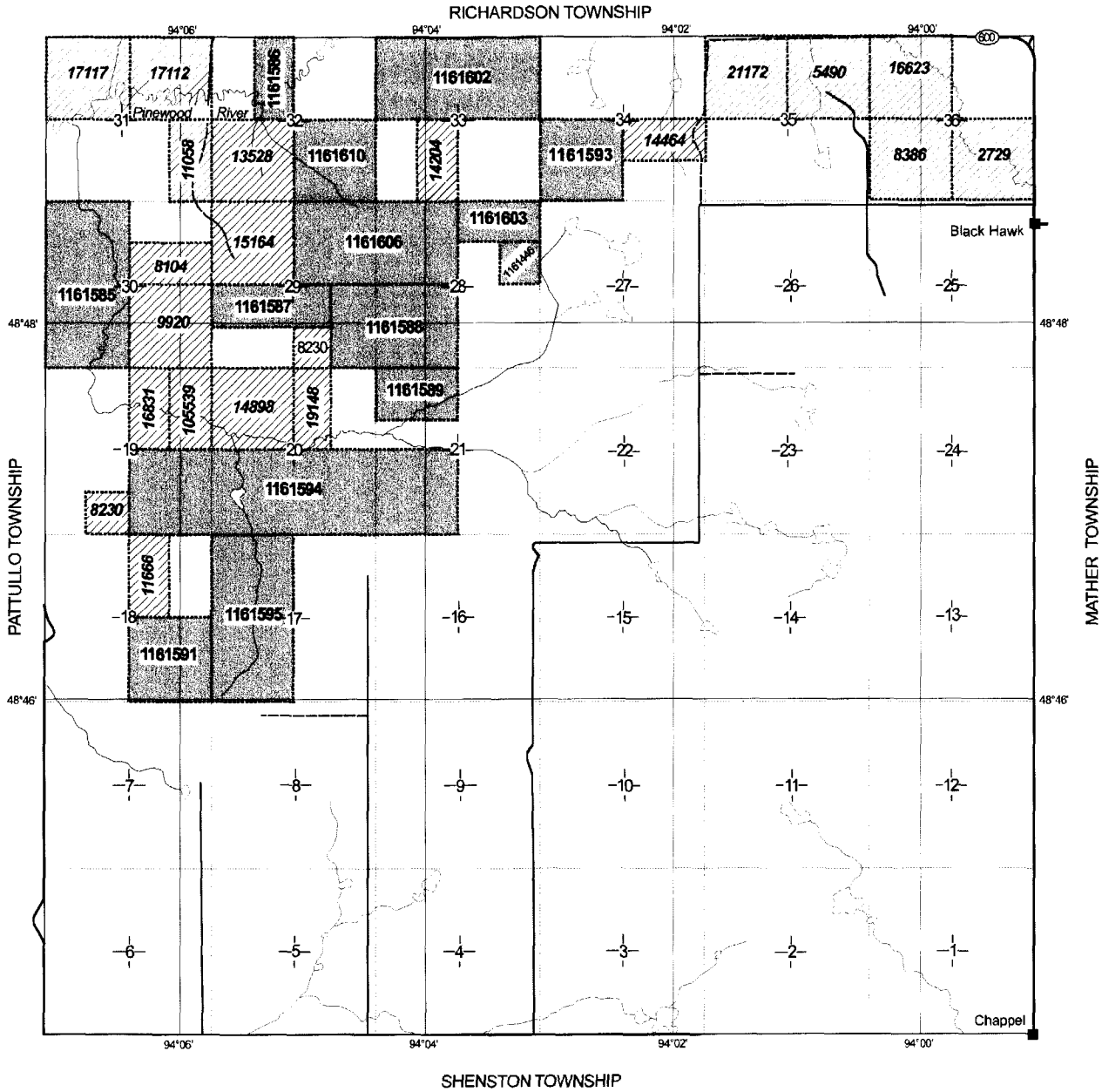
Property Map

Sifton Township

Rainy River District, Northwestern Ontario

Nuinsco RESOURCES LIMITED



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Property Map

Tait Township

Rainy River District, Northwestern Ontario

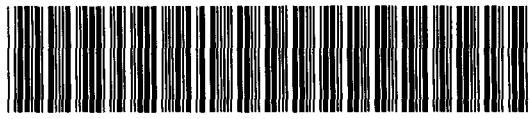
Nuinsco RESOURCES LIMITED

Nuinsco Resources Limited

Rainy River Project

APPENDIX

1997 Reverse Circulation Drill Data



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Paul Jones, BSc.
Senior Project Geologist
Consulting Geologist
September8, 1997

APPENDIX I

Reverse Circulation Drill Hole Logs

Rainy River Project
Work Report
1997 Reverse Circulation Drill Data
Paul Jones, Project Geologist
August, 1997

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 19 19 97
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-321 LOCATION ____ ELEVATION ____
GEOLOGIST P Collins DRILLER R. Legault BIT NO. CB71267 BIT FOOTAGE 0.0 - 32.0
MOVE TO HOLE 9:30-10:00 10:00 - 11:30 set up on site
DRILL 11:30 - 2:30
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER 8:00 - 9:30 fuel up, set up - unload equipment key road
MOVE TO NEXT HOLE ____

New sub

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20				0.0-20.7 Lagal Keewatin Till & Lake Agassiz Sediments grey beige, slightly gritty clay rich matrix with small pebble clasts mainly limestone & sandstone (5.2 - 6.6) glaciolacustrine sand: grey silty v.fine grained sand with thin clay partings. (6.6 - 8.0) clay: massive grey non gritty clay. (8.0 - 20.7) clay till: grades to very slightly gritty to no grit clay matrix. Sparse small fine to medium pebbles. - below 11.0-12.0 occasional thin poorly sorted grey beige sandy seam probable bedding: thereafter similar to above clay till/clay interval

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 19 1997
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR-97-321 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				20.7 - 24.2 Lake Agassiz Sediments. Sand: poorly sorted grey beige fine grained sand with occasional clay partings and well sorted fine to medium sand beds in places.
22				
23				
24				24.2 - 24.4 gravel: pebbly gravel bed.
25				24.4 - 27.0 sand: fluctuates between glaciofluvial and medium to coarse grained and (sorted) and poorly sorted grey beige silty fine sand.
26				
27				27.0 - 31.0 Labradorean Till and glaciofluvial Lake Agassiz sediments.
28			01	(27.0 - 28.0) Till: unsorted clay rich coarse biased fine to medium sand matrix. Cobbly clasts of composition: 70% granitoids: 30% Volcanics & sediments.
29			02	
30			03	(28.0 - 29.0) gravel: cobbly and near clast supported of composition: 70% granitoids; 30% Volcanics & seds. well sorted coarse sand interbeds.
31			04	(29.0 - 31.0) Till similar to 27.0 - 28.0. Below 30.0 there is distinct increase in volcanic clasts (mainly basalt) to 65% many of which are sheared & pyritized.
32				31.0 - 32.0 Bedrock Basalt.
33				- dark green
34				- fine grained
35				- well foliated, sheared
36				- main matrix is chlorite, sericite along slip planes
37				- up to 10% pyrite in planes mainly associated with qtz, carbonate & veinlets
38				- 0.5 - 1% disseminated arb.
39				- below 31.4 up to 7% qtz veinlets
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 19 1997
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR-97-322 LOCATION _____ ELEVATION _____
GEOLOGIST P. Gilmore DRILLER R. Legault BIT NO. C071267 BIT FOOTAGE 32.0-56.5
MOVE TO HOLE 2:30-2:40
DRILL 2:40 - 4:30
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20				0.0 - 20.0 Keewatin Till beige-light ochre to grey (below 3.0m) slightly gritty & mm gritty clay matrix. Sparse ~5% pebble clasts. occasional poorly sorted sand bed below 8 metres.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 19 19 97 | HOLE NO RR-97-327 LOCATION _____ ELEVATION _____

GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE _____

DRILL _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				20.0 - 20.8 Lake Agassiz Sed's poorly sorted lacustrine silty fine sand.
22			01	
23			02	20.8 - 23.0 Labradorean Till gray beige silt to fine sand matrix. Cobbly matrix supported. Clast composition ~ 50 % Granitoid 50 % Volcanics & Sed's. Below 22.0 m the matic Volcanic component increases to 70%.
24			03	23.0 - 24.5 Bedrock - dark green - fine grained - well foliated sheared - main matic is chlorite - ~ 10% diss & stringer calcite - 0.5 % diss. pyr. Basalt.
25				24.5 E.O.H.
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 20 19 97
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-323 LOCATION ____ ELEVATION ____
GEOLOGIST P. Collins DRILLER R. Legault BIT NO. 607126 7 BIT FOOTAGE 56.5 - 92.5
MOVE TO HOLE 4:45 - 5:15 + setup (19M)
DRILL 8:15 - 12:30
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER Travel 7:30 - 8:15 + fuel up.
MOVE TO NEXT HOLE ____

Pg 1

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20				0.0–21.8 Layered Keewatin Till & Lake Agassiz Sods beige to light olive (grey unoxidized below 3.0m) very slightly gritty clay rich matrix. sparse limestone pebbles clasts (5.0 - 6.5) clay till with poorly sorted - silty grey beige fine sand interbeds. (6.5 - 8.5) clay till massive very slightly gritty to non gritty clay - rare clasts. (8.5 - 9.8) sand : poorly sorted glaciolacustrine fine grained sand. (9.8 - 11.2) clay till : similar to 6.5 - 8.5 (11.2 - 14.0) sand : similar to 8.5 - 9.8 (14.0 - 19.0) clay till / sand : similar to 5.0 - 6.5

2.18086

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 20 19 97 | HOLE NO RR-97-323 | LOCATION _____ | ELEVATION _____

GEOLOGIST _____ | DRILLER _____ | BIT NO. _____ | BIT FOOTAGE _____

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE _____

DRILL _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				(19.0 - 26.0) clay : massive grey non gritty clay.
22				
23				(26.0 - 28.6) clay till : slightly gritty / non gritty clay rich matrix - ~5% limestone + granitic ~~clast~~ pebble clasts
24				
25				(28.6 - 29.8) sand : poorly sorted gy beige fine grained sand.
26				
27				(29.8 - 34.5 Labradorean Till gradational contact initially to grey silt to fine sand matrix. Nearly cobble clast supported initially 50 vs 50 to 65% volcanics 35% granitoids below 31.2 m.
28				
29				
30			01	
31				(31.4 - 32.1) gravel : aquifer 95% return as clasts - cobbly of composition 60% granitoid 40% volcanics/sed's. occasional return as sorted coarse sand beds.
32			02	
33			03	
34			04	(32.1 - 32.4) till : return to unsorted fine sand matrix - similar to 29.8 - 31.4
35			05	(32.6 - 32.9) gravel : similar to 31.4 - 32.1
36				(32.9 - 34.2) till : unsorted silt to fine sand matrix - still gravel beds in places. Clast composition 60% mafic volcanic/sed's : 40% granitoids.
37				
38				(34.2 - 34.5) till : 95% mafic volcanic rock chips - still few exotics + return on matrix
39				
40				

34.5 - 36.0 Bedrock - Basalt.
- dark green, fine grained, well foliated, sheared, chloritic
- 5% disrupted calcite
- 1% quartz + calcite stringers

36.0 E.O.H.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 20 19 97

SHIFT HOURS
____ TO ____

TOTAL HOURS
____

CONTRACT HOURS
____

HOLE NO RR-97-324 LOCATION ____ ELEVATION ____

GEOLOGIST P. Collins DRILLER R. Legault BIT NO 8871267 BIT FOOTAGE 97.5-129.1

MOVE TO HOLE 2:30-2:45

DRILL 2:45 - 5:00 / 5:00 - 5:30 move / set up.

MECHANICAL DOWN TIME ____

DRILLING PROBLEMS ____

OTHER 12:30-1:00 plug hole (few problems) 1:00-2:30 check traction. stuck in creek arrange for ~~Hold~~. Cat to pull out.

MOVE TO NEXT HOLE ____

Pg. 1

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0.0 - 25.8 Layered kaewatin Till & Lake agassiz Sds.
2				(0.0 - 1.8) light ochre gritty clay matrix with 2-3% limestone clasts.
3				
4				(1.8 - 13.8) sand/clay: mainly beige poorly sorted fine grained sand with occasion thin clay bed.
5				
6				(13.8 - 20.0) clay/sand: mainly massive non gritty clay with interbeds of poorly sorted fine grained sand & rare limestone pebble probable dropstone.
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 20 1997 HOLE NO RR-97-324 LOCATION _____ ELEVATION _____

GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE _____

DRILL _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				20.0 - 22.0 Till v. slightly gritty clay matrix rare limestone clasts
22				22.0 - 23.0 clay / silt. greenish gray in colour - soft.
23				23.0 - 25.8 Sand : gray beige poorly sorted fine grained sand.
24				
25				25.8 - Labradorean Till + lake Agassiz Sediments
26			01	25.8 - 29.0 till : sandy matrix supported with cobbly clasts of composition : 50% Volcanics & Sediments ; 50% granitoids.
27				
28			02	* below 27.0 metres there are occasional sorted sand beds ranging from medium to coarse
29				
30				29.0 - 29.8 sand : gray beige poorly sorted -> silty sand.
31			03	29.8 - 31.4 till : similar to 25.8 - 29.0
32			04	
33				31.4 - 32.6 Sand : mainly sorted course sand with poorly sorted fine sand & sorted med in sand interbeds
34			05	
35				32.6 - 33.2 till : mainly cobble clast supported with clast comp. 60% Volcanics & sediments ; 40% granitoids
36			06	
37				33.2 - 35.2 Gravel : definite gravel - no sand - v. clean return on clasts only. Comp. 60% granitoid ; 40% Volc/sed which changes to 60% V/Seds below 34.8m
38				
39				
40				

35.2 - 36.8. Bedrock
- silvery pale pink (weathered stained)
- fine grained gneiss
- 2mm qtz + feld. phenos.
- strongly porphyritic
- sheared - recrystallized.
- 0.5% peppered magnetite
- Tr. tourmaline needles ?
- trace carbonate.

Sheared qtz feld. porphyry

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 20,21 1997
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-325 LOCATION ____ ELEVATION ____
GEOLOGIST P.Gillin DRILLER R.Legault BIT NO CB71267 BIT FOOTAGE 129.1-168.1
MOVE TO HOLE 5:00-5:20 (20m)
DRILL 9:15-12:30
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER 5:20-6:00 (20m) clear on tractor 8:00-9:15 Lafo + supervisor tractor pull out
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20			01	0.0 – 18.8 Layered Keewatin Till & Lake agassiz Sediments. (0.0 –) beige light olive to grey (below 4.0m) gritty clay rich matrix. 3-5% limestone + sandstone clasts grey silt to very fine sand comprises ~30% of matrix below 5.0m (11.0 – 15.0) sand/clay till/silty mainly poorly sorted beige fine grained sand with interbeds of non gritty clay and/or clay till (15.0 – 17.8) clay/clay till: slightly greenish grey non gritty clay get few clasts limestone & granitoid (17.8 – 17.8) sand: poorly sorted fine grained sand. 18.8 – 37.4 Labradorean Till grey beige fine sand to silt matrix. Cobble sized clasts of composition: 60% volcanics & seds / 40% granitoids. There are occasional well washed gravel layers.

0.0 – 0.0
0.0 – 0.0

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 21 19 97
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR-97-325 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21			02	(21.7 - 23.0) gravel / sand : interbeds of pebbly gravel and well sorted coarse and medium grained sand. Clast composition 60% granitoids ; 40% volcanics/seds
22				
23			03	(23.0 - 24.0) sand : poorly sorted silty, fine grained sand bed.
24				(24.0 - 31.0) gravel : similar to 21.7 - 23.0 only notably with clast composition 70% granitoid 30% Volcanic / Seds.
25			04	
26				
27			05	(31.0 - 37.4) till : unsorted grey beige silt to fine sand matrix cobble clasts of composition: 55% granitoid ; 45% Volcanic / Seds. There are occasional sorted coarse sand & gravel interbeds; below 36.6 clast composition changes to 60% Volc. 40% Granitoids
28				
29				
30			06	
31				
32			07	37.4 - 39.0 Bedrock Basalt
33				- dark green
34			08	- fine grained
35			09	- strong shear foliation, chloritic.
36				- 5% qtz ± calcite veinlets
37			10	- ~1% disseminated pyrite to strong pyrite
38			11	- ~20% qtz veinlets from 38.2 - 38.5
39				39.0 E.O.H.
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 21 1997
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-97-326 LOCATION _____ ELEVATION _____
GEOLOGIST P. Collin DRILLER R. Legault BIT NO. C071267 BIT FOOTAGE 168.1-197
MOVE TO HOLE 12:30-1:30 (put tower down etc.)
DRILL 1:30-3:00
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

Pg 1

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20				0.0 - 20.0 Keewatin Till (0.0-7.0) beige to light ochre slightly gritty clay rich matrix. Grey unoxidized below 4.0 m. ~10% pebble unsorted silt to very fine sand in places 5% limestone clasts. (7.0-) very slightly gritty to non gritty clay matrix. rare limestone pebble clasts

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 21 1997 HOLE NO RR-97-326 LOCATION _____ ELEVATION _____

GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE _____

DRILL _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				Lake Agassiz Sediments
21				(20.0-) sand: interbeds of poorly sorted and sorting well sorted. fine, medium and coarse grained sand.
22				
23				27.6 - 28.0 Labradorean Till grey beige mounted silt to fine sand matrix. Cobble clasts of composition: 60% volcanics/sed, 40% granitoids.
24				
25				
26				
27				28.0 - 29.2 Bedrock - Basalt.
28			01	- dark green
29			02	- Medium grained
				- foliated - sheared - altered
				- ~10% dissected } stringer calcite
				- 1-2% dissected magnetite
				- 0.5-1% dissected pyrite.
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 21 19 97
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR-97-327 LOCATION _____ ELEVATION _____
GEOLOGIST P. Collins DRILLER R. Legault BIT NO C871267 BIT FOOTAGE 1973-2228
MOVE TO HOLE 3:00 - 3:15
DRILL 3:15 - 5:30
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER plugged hole
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20				0.0 - 22.0 Keewatin Till beige to light ochre slightly gritty clay matrix. small sparse limestone pebble clasts till is moist at just below 4 m. (5.0 - 22.0) grey very slightly gritty to non gritty clay matrix. rare pebbles

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 21 19 97 | HOLE NO RR-97-327 LOCATION _____ ELEVATION _____

GEOLOGIST _____ DRILLER _____ BIT NO _____ BIT FOOTAGE _____

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE _____

DRILL _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

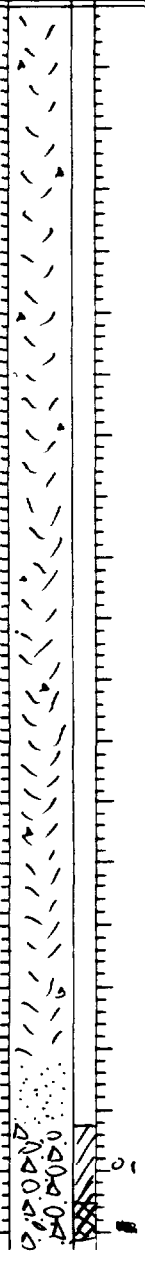
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				22.0 - 22.7 Lake Agassiz Sediments Sand: poorly sorted fine & medium grained sand.
22				22.7 - 24.5 Labradorean Till grey beige silt to med sand matrix (coarse biased) occasional sorted coarse sand bed.
23			01	Cobbly with clast composition: 60% volcanics & sediments; 40% granitoids. Increase in volcanic components as approach bedrock.
24			02	
25			03	24.5 - 25.5 Bedrock - Basalt. - dark green - fine grained, foliated, chloritic - sheared - altered. - trace disseminated pyrite. - 15% dis. calcite
26				
27				25.5 E.O.H.
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 22 1997
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-328 LOCATION ____ ELEVATION ____
GEOLOGIST P. Collins DRILLER R. Legault BIT NO. CB71267 BIT FOOTAGE 222.8-298.
MOVE TO HOLE 8:10-9:00 + setup & warm up.
DRILL 9:00-12:00
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20				0.0 - 17.2 Keewatin Till (0.0 - 3.0) beige light ochre to grey (below 3.0 —) slightly gritty clay matrix. 2-3% limestone + ensilstone clasts. (3.0 -) grey very slightly gritty / non gritty clay matrix rare clasts. 17.2 - 18.2 Lake Agassiz Sediments Sand: poorly sorted v. fine and fine grained sand. 18.2 - 24.2 Labrador ean Till Matrix deficient - nearly clast supported till. silt to fine sand - cobbles of composition: 70% granitoid 30% Volcanics / sed's.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 22 19 97 | HOLE NO RR-97-328 | LOCATION _____ | ELEVATION _____

GEOLOGIST _____ | DRILLER _____ | BIT NO. _____ | BIT FOOTAGE _____

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE _____

DRILL _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21			01	- between 21.4 an 23.8 very little return on matrix
22			02	
				24.2 - 25.5 Bedrock
23			03	- grey green - porphyritic texture - 7% plag phenos 0.5% qtz/hbl phenos
24				- sheared ; 7-10% discontinuous stringer calcite
25			04	- trace disseminated pyr. - trace epidote. Intermediate Volcanic
				25.5 E.O.H
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 22 19 97
SHIFT HOURS
____ TO ____
TOTAL HOURS
____
CONTRACT HOURS
____

HOLE NO RR-97-329 LOCATION ____ ELEVATION ____
GEOLOGIST P. Collins DRILLER R. Legault BIT NO C87267 BIT FOOTAGE 298.3-354.3
MOVE TO HOLE 12:00 - 12:40
DRILL 12:40 - 2:35
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20				0.0 - 20.0 Keewatin Till beige light ochre to grey (below 3.5m) slightly gritty clay matrix. 3% limestone pebble clasts -below 5.0m grey very slightly gritty to non gritty clay matrix & rare limestone pebble clasts.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 22 19 97 | HOLE NO RR-97-329 | LOCATION _____ | ELEVATION _____

GEOLOGIST _____ | DRILLER _____ | BIT NO. _____ | BIT FOOTAGE _____

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE _____

DRILL _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
20				20.0 - 21.0 Lake Algassiz Sediments
21				(20.0 - 21.0) clay : greenish grey varvitty clay.
22				
23				(21.0 - 23.0) sand : poorly sorted very fine to fine grained sand
24				
25				(23.0 - 29.8) sand : sorted beds of fine, medium and coarse grained sand.
26				
27				29.8 - 34.4 Labradorean Till
28				(29.8 - 30.3) boulder - granitoid
29				(30.3 - 34.4) grey beige silt to fine sand matrix. Matrix deficient especially between 31.6 & 33 m. Nearly cobble clast supported. 55% Volcanics & sediments, 45% granitoids
30				
31			01	
32				34.4 - 36.0 Bedrock - Basalt
33			02	medium green - variably stained by limonite & hematite
34			03	- fractured, schistose
35			04	- fine grained, strong foliation sheared.
36				- trace carbonate
37				36.0 E.O.H
38				
39				
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 22 1997
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-330 LOCATION ____ ELEVATION ____
GEOLOGIST P. Collins DRILLER R. Legault BIT NO. CB71281 BIT FOOTAGE 0.0-31.5
MOVE TO HOLE 2:35 - 2:50
DRILL 2:50 - 4:50
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE 4:50 - 5:45

New bit & sub.

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1-20				0.0 - 20.0 Keewatin Till beige-light ochre to grey (below 3.0 m) slightly gritty to non gritty clay matrix. Rare limestone pebble clasts.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 22 19 97 | HOLE NO RR-97-30 | LOCATION _____ | ELEVATION _____

GEOLOGIST _____ | DRILLER _____ | BIT NO _____ | BIT FOOTAGE _____

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE _____

DRILL _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				20.0 - Lake agassiz Sediments
22				(20.0-21.0) greenish grey non-calcitic soft clay
23				(21.0-24.0) sand : poorly sorted grey beige fine grained sand.
24				24.0 - 29.8 Labradorean Till
25			01	grey beige silt to v. fine sand matrix. Probably clasts of composition 70% Volcanics many of which are sheared ± pyrite
26				30% Granitoids.
27			02	
28			03	29.8 - 31.5 Bedrock Intermediate Volcanic
29			04	- pale silvery grey & greenish
30				- schistose - sericite + trace chlorite.
31			05	- strongly porphyritic, ~~not~~ qtz + plag phenos to 4mm
32				- fine grained mass
33				- trace pyrite
34				31.5 EOH.
35				
36				
37				
38				
39				
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 23 19 97 HOLE NO RR-97-331 LOCATION _____ ELEVATION _____

GEOLOGIST P. Collins DRILLER R. Leyenaar BIT NO. CO71281 BIT FOOTAGE 31.5-59.0

SHIFT HOURS _____ TO _____

MOVE TO HOLE 4:50-5:45 (Jan 22)

DRILL 8:15-10:45

TOTAL HOURS _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS _____

OTHER Travel 7:40-8:15

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20				0.0 - 27.5 Keewatin Till beige light ochre to grey below 3.0 m. Slightly gritty clay matrix, sparse pebble clasts 2-3% limestone below 4.0 m grey very slightly gritty and non gritty clay matrix with rare limestone pebble clasts

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 23 19 97
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RL-97331 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				23.5 - 26.0 Labradorean Till grey beige silt to fine sand matrix. Nearly cobble clast supported with composition: 70% volcanics & sediments (many of int. & mafic volcanics are "stewed") : 30% granitoids
22				
23				
24			01	
25			02	
26			03	at 26.0 bit plugged on rock powder clay
27				
28				26.0 - 27.5 Bedrock Int to mafic V.I.c
29				- light to medium green
30				- fine grained
31				- strongly foliated to subschistose
32				- chlorite + sericite weakly developed
33				- non calcareous, no visible sulphides
34				- 1% qtz veinlets.
35				
36				
37				
38				
39				
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 23 19 97
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR-97-332 LOCATION _____ ELEVATION _____
GEOLOGIST P. Collins DRILLER R Legault BIT NO. CB71281 BIT FOOTAGE 59.0-85.0
MOVE TO HOLE 10:45-11:00
DRILL 11:00 - 12:30
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

Pg 1

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20				0.0 - 23.6 Excavation Fill beige/light ochre to grey (below 4m) slightly gritty clay matrix. 2-3% limestone / sandstone clasts. (8.0 - 11.0) grey very slightly gritty to non gritty clay matrix with occasional poorly sorted very fine grained sand. (11.0 - 23.6) clay / clay till massive grey v. slightly gritty and non gritty clay matrix rare small limestone pebble clasts.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 23 19 97 | HOLE NO RR-97-332 | LOCATION _____ | ELEVATION _____

GEOLOGIST _____ | DRILLER _____ | BIT NO. _____ | BIT FOOTAGE _____

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE _____

DRILL _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				23.6 - 25.0 Labradorean Till
22				grey beige silt to fine sand matrix. Cobble clasts of
23				composition 70% volcanics (many of intermediate / mafic
24			01	volcanics are cleaved through
25			02	weakly pyritic) 30% granitoids.
				25.0 - 26.5 Bedrock. Basalt? may be andesite
				- medium green
				- porphyritic texture - phenocrysts
				- 5% blue qtz phenos.
				- chloritic. trace sericite
				- no visible sulphides
				- non calcareous.
				26.5 E.O.H.
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 23 19 97
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-97-333 LOCATION _____ ELEVATION _____
GEOLOGIST P. Collins DRILLER R. Legault BIT NO. CB71281 BIT FOOTAGE 85.0 - 119.
MOVE TO HOLE 12:30 - 12:45
DRILL 12:45 - 3:00
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

Pg 1

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20				0.0 - 24.8 Keewatin Till (0.0 - 4.0) light ochre (oxidized) slightly gritty clay matrix. Sparse (2-3%) limestone clasts mainly limestone. (4.0 - 24.8) grey very slightly gritty and non gritty clay matrix. Rare limestone pebble clasts.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 23 1997 HOLE NO RR-97-333 LOCATION _____ ELEVATION _____

GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE _____

DRILL _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				24.8 - 27.2 Lake Agassiz Sediments
22				(24.8 - 26.0) clay : greenish grey non gritty clay
23				(26.0 - 27.2) sand : poorly sorted grey very fine grained sand.
24				
25				27.2 - 32.3 Labradorean Till grey beige silt to fine sand matrix Cobble sized clasts 70% volcanic & sediments (~70% of volcanics are elevated) : 30% granitoids. Slight increase in volcanic content down hole.
26				
27				
28			01	
29			02	
30				32.3 - 34.0 Bedrock - basalt? probable andesite
31			03	- medium green
32			04	- porphyritic texture (8% blue qtz phenos)
33			05	- fine grained mass
34				- strong foliation - subschistose
35				- v. weakly elevated
36				- main mafic is chloride & no visible sulphides
37				- ~5% qtz veinlets below 33.6
38				34.0 E.O.H.
39				
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 23 19 97
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR-97-334 LOCATION _____ ELEVATION _____
GEOLOGIST P. Collins DRILLER R. Legault BIT NO. C071281 BIT FOOTAGE 119.0-
MOVE TO HOLE 3:00 - 4:30
DRILL 4:30 - 5:45
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20			01, 02	0.0 - 15.0 Keewatin Till (0.0 - 4.0) light ochre (oxidized) gritty clay matrix. 5% clasts mainly limestone - few granitoid. (4.0 - 7.8) grey very slightly gritty and non gritty clay matrix. Rare pebble clasts mainly limestone (7.8 - 8.6) Till: poorly sorted fine sand and grey gritty clay matrix. Few clasts limestone + mafic volcanic (locally derived) K.T. scraped bdk. (8.6 - 11.0) Till: similar clay rich to 4.0 - 7.8 (11.0 - 13.0) Till: increase in quantity of clasts ~15%. Dominantly limestone yet also proximal mafic volcanics. Matrix still clay rich mix sand. 13.0 - 15.0 Bedrock. - dark green - fine grained - well foliated - subschistose chloritic - weakly sheared - 10% disseminated calcite trace disseminated pyr. Basalt 15.0 E.O.H.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan24 19 97
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR-97-335 LOCATION _____ ELEVATION _____
GEOLOGIST P. Collins DRILLER R. Legault BIT NO CB71281 BIT FOOTAGE 119.0 - 155.
MOVE TO HOLE 8:00 - 8:30 (+ setup)
DRILL 8:30 - 10:45
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

Pg 1

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20				0.0 - 24.2 Kaowatin Till (0.0 - 8.0) light ochre to grey below 3.0m slightly gritty clay matrix. 3-5% clasts mainly limestone. 5-10% sandy component to matrix in places (8.0 - 14.0)) up to 40% silt to very fine grained sand in matrix with slight increase in clast quantity. - at 11.6 m a small local mafic volcanic cobble. (14.0 - 24) grey very slightly gritty and non gritty clay matrix rare limestone pebble clasts.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 24 19 97
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-97-335 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				24.2 - 30.7 Lake Agassiz Sediments
22				Sand: poorly sorted very fine to fine grained sand.
23				occasional thin sorted med to course sand bed below 29.0m
24				
25				30.7-34.2 Labradorean Till
26				matrix deficient till - newly clast supported. Grey beige silt to fine sand : Cobble clast composition: 60% volcanics & sed: 40% granitoids.
27				Some of volcanics ~ 30 to 40% are sheared few of these are pyritic. Slight increase in sheared clasts down interval
28				
29				
30				
31			01	34.2 - 36.0 Bedrock
32				- med + light green
33			02	- fine porphyritic ~ 7-10% plag + qtz phenos (subhedral)
34			03	- well foliated - subschistose chlorite + sericite) sheared
35			04	⊕ tr. tourmaline
36				- 1-2% diss + stringer carbonate
37				- no visible sulphides
38				Intermediate Volcanic.
39				
40				36.0 E.O.H.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 24 1997
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-336 LOCATION ____ ELEVATION ____
GEOLOGIST P. Colbin DRILLER R. Legault BIT NO. CB71281 BIT FOOTAGE 155 - 192.
MOVE TO HOLE 10:45 - 1400
DRILL 11:00 - 1:15
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20				0.0-23.5 Keewatin Till beige-light ochre to grey below 3.0 – gritty clay matrix. 3-5% limestone clasts. (3.0-23.5) grey very slightly gritty matrix and non gritty clay layers. Rare small pebble clasts - limestone

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 24 19 97 HOLE NO RR-97-336 LOCATION _____ ELEVATION _____

GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE _____

DRILL _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				23.5 - 29.3 Lake Agassiz Sediments
22				Sand: poorly sorted very fine to fine grained sand - rare thin clay beds.
23				
24				29.3 - 35.2 Labradorean Till
25				Nearly clast supported grey beige silt to fine sand matrix. Cobble clasts 55% volcanics and sed's / 45% Granitoids. Volcanic component increases down hole to 65% some of which are sheared.
26				
27				
28				(33.5 - 33.7) ~ 15% highly calcareous pinky clay lumps in matrix in places.
29				
30			01	35.2 - 37.0 Bedrock
31				- medium / light green
32			02	- abundant, pale green weak powder lumps & incompetent chips are generally small.
33			03	- porphyritic 7-10% blue qtz's & plag phenos.
34				- well foliated - weak shear.
35			04	- some calcareous
36			05	- matrix matrix is chlorite
37				Int. to mafic volc.
38				37.0 E.O.H.
39				
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 24 19 97
SHIFT HOURS
____ TO ____
TOTAL HOURS
____
CONTRACT HOURS
____

HOLE NO RR-97-337 LOCATION ____ ELEVATION ____
GEOLOGIST P. Collins DRILLER R. Legault BIT NO. C371281 BIT FOOTAGE 192.0 - 210
MOVE TO HOLE 1:15 - 1:45
DRILL 1:45 - 3:15
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20		01		0.0 – Keewatin Till beige to light olive (grey below 3.0 m) slightly gritty clay matrix. 3% limestone clasts 10.5–13.4 Lake Agassiz Sediments (10.5–11.0) boulder – granitoid (11.0–13.4) gravel: absolutely no matrix. well washed pebble & cobble clasts: 60% Granitoid; 40% volcanics & Seds. 13.4 – 16.5 Labrador ice Till mounted grey beige silt to fine sand matrix. Matrix deficient in places. Cobble clasts of composition 60% volcanics & sediments; 40% granitoid. (16.0–16.3) sandy clast poor interval 16.5–18.0 Bedrock - dark green - fine grained - well foliated, weakly sheared - main matic chlorite + hornblende - 7–10% disseminated pyrite & stringer calcite - trace disseminated pyrite. Basalt. 18.0 E.O.H.
		02		
		03		
		04		

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 24,25 19 97 HOLE NO RL-97-338 LOCATION _____ ELEVATION _____

GEOLOGIST P. Collin DRILLER R. Legault BIT NO. CB71281 BIT FOOTAGE 210 - 2465

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE 3:15 - 3:30 (24hr)

DRILL 11:00 - 2:30 (24hr)

MECHANICAL DOWN TIME 3:30 - 6:00 remove drive shaft. (24hr)

DRILLING PROBLEMS 8:00 - 11:00 replace drive shaft, change oil.

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20				0.0 – layed Keewatin Till & Lake Agassiz Sediments. (0.0 - 5.0) beige - light ochre to grey (below 4.0 m) slightly gritty clay matrix. ~10-15% sandy matrix. 3% limestone pebble clasts (5.0 - 6.4) sand: poorly sorted beige very fine grained sand. (6.4 - 9.0) clay till: grey very slightly gritty and non gritty clay matrix. Rare pebble - limestone clasts. (9.0 - 12.5) sand: similar to 5.0-6.4 (12.5 - 17.0) clay till: similar to 6.4 - 9.0 m (17.0 - 18.5) clay: soft non gritty greenish clay with silt Varves (18.5 - 20.5) sand: poorly sorted, fine grained sand.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 25 19 97
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR-97-338 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21			01	20.5 – 34.8 Labradorean Till & Lake agressig glaciofluvial Cobbly
22				(20.5 – 22.1) Till : unsorted grey beige silt to medium grained sand. Cobble clasts of composition: 60% Granitoids ; 40% volcanic & sed's.
23			02	
24				(22.1 – 26.0) sand & gravel : very sandy – sorted fine, medium and coarse sand beds. Pebble & cobble gravel interbeds 60% granitoids ; 40% volcanic/sed's.
25			03	
26				– down interval ~~app~~ less sorted in places and possible matrix. Though very coarse biased – v. slightly unsorted. Tremendous return on sample – rapidly fills buckets.
27			04	
28				
29				– (26.0 – 29.0) Gravel : well washed gravel, pebble and cobble clasts of composition: 60% volcanic and sed's. ; 40% granitoids. Some of volcanics are & sheared & pyritic
30			05	
31				
32				(29.0 – 33.7) sand & gravel :
33			06	similar to 22.1 – 26.0 m.
34				(33.7 – 34.8) till : unsorted grey beige silt to fine sand matrix cobble clasts 65% volcanics & Sediments ; 35% Granitoids
35			07	
36			08	34.8 – 36.5 Bedrock Basalt
37				– greyish medium green
38				– fine grained
39				– strong foliation to subschistose
40				– sheared : chloritic & sericite – 0.2–0.3% disseminated pyr. may be trace arsenopyrite – 1% disseminated carbonate

36.5 – 6.0 m.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 25, 28 1997

SHIFT HOURS
_____ TO _____

TOTAL HOURS
_____

CONTRACT HOURS
_____

HOLE NO RR-97-339 LOCATION _____ ELEVATION _____

GEOLOGIST P. Lothian DRILLER R. Leyenaar BIT NO. CB71281 BIT FOOTAGE 246.5-280.
CB71280 0.0-34.5
CB71268 8.0-8.1

MOVE TO HOLE 2:30 - 2:45

DRILL 2:45 - 6:00 (25hr) 8:00 - 5:00 (26 hr

MECHANICAL DOWN TIME 8:00 - 12:00 25hr - down hole on two occasions;

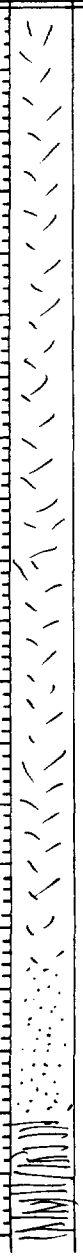
DRILLING PROBLEMS bit broke on 2nd attempt, 2 rods damaged, see note pg 2.

OTHER clear mud tank 4:45 - 5:30 (25hr)

MOVE TO NEXT HOLE 5:30 - 6:00

* additional slow downs with water pump etc. due to -40°C conditions.

Pg 1 New bit 2 rods damaged

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20				0.0 - 15.5 Keewatin Till beige light ochre to gry below 3.0m 3% pebble clasts mainly biotite 15.5 - 27.2 Lake Agassiz Sediments (15.5 - 18.2) sand: poorly sorted, beige very fine to fine grained sand (18.2 - 27.0) clay: massive grey soft unsilty clay

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 25 1997 — HOLE NO RR-97-379 — LOCATION _____ — ELEVATION _____

GEOLOGIST _____ — DRILLER _____ — BIT NO. _____ — BIT FOOTAGE _____

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE _____

DRILL _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21–40				(23.0 – 24.3) silt : grey silt grading to very fine grained sand (24.3 – 26.5) sand : poorly sorted grey very fine to fine grained sand. (26.5 – 27.2) sand : poorly sorted fine to medium grained sand. 27.2 – 41.3 Labradorean Till and glaciofluvial sediments. (27.2 – 28.2) Till : good unsorted silt to fine sand matrix Cobble clasts of composition : 55% volcanics & sed. ; 45% granitoids. (28.2 – 29.7) sand/gravel : sorted medium to coarse grained sand. Pebble / cobble clasts 55% granitoids 45% volc/sed (29.7 – 32.0) till : similar to 27.2 – 28.2 - cobble clast comp: 60% volc./sed. : 40% granitoid (32.0 – 32.8) sand/gravel : as at 28.2 – 29.7 (32.8 – 40.5) till : similar to 29.2 – 32.0 with occasional sorted gravel layer - below 35.5 till clast supported. ← bit E.O.H. 25m plugged back pressure continually plugging drill rods.

Note : changed bit at 34.2m (CB71200) at same depth no return pull rods → bit burned out pressure check similar / rod change bit (again CB71268)

- bit burned out probably due to bypass problem - no water getting to bit.
- 4th attempt at hole no return at 32.8m

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 25/26 19 97 — HOLE NO RR-97-339 — LOCATION _____ — ELEVATION _____

GEOLOGIST _____ — DRILLER _____ — BIT NO _____ — BIT FOOTAGE _____

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE _____

DRILL _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
41			09	40.5 41.3 silt/sand : grey beige silt & very fine grained sand.
42			16	41.3 - 43.0 Bedrock - siltstone
43				- mainly white rock powder lumps
44				- few grey - pale grey chips
45				- schistose - subschistose, cleaved & fine grained, painted with pyrite on places along slip plane
46				- trace carbonate
47				
48				43 c E.O.H.
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 26, 27 19 97
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-340 LOCATION ____ ELEVATION ____
GEOLOGIST P. Collins DRILLER R. Legault BIT NO CB71268 BIT FOOTAGE 8.8-38.8
MOVE TO HOLE 5:30-6:00 (26th) partway 8:00-8:45 + warmup (30°) 2
DRILL 8:45-12:30
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

1 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20			01, 02, 03	0.0 - 16.8 Laurentian Kaowatin Till and Lake Agassiz Sediments (0.0 - 2.0) beige - light olive slightly gritty clay matrix 3-5% limestone pebble clasts (2.0 - 6.8) sand: beige poorly sorted very fine grained sand. (6.8 - 8.0) clay till: grey very slightly gritty clay matrix few limestone pebbles; however, for brief intervals up to 5% limestone + granitic clasts (8.0 - 9.0) sand: grey beige, poorly sorted very fine to fine grained sand. (9.0 - 14.0) clay till similar to 6.8 - 8.0 with occasional thin poorly sorted sand bed. (14.0 - 16.8) sand: poorly sorted fine grading to medium grained sand. 16.8 - 28.3 Labradorean Till grey beige silt to fine sand matrix cobble clasts of composition: 60% volcanics & seds; 40% granitoids ~20% to 30% of volcanics are pyritic - sheared. Drilled through sheared felsic porphyry cobble at 17.5 m

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 27 19 97 | HOLE NO RR-97-340 | LOCATION _____ | ELEVATION _____

GEOLOGIST _____ | DRILLER _____ | BIT NO _____ | BIT FOOTAGE _____

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE _____

DRILL _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21			03	(22.8-26.8) Till: up to 30-35% pale grey gritty clay in matrix otherwise as above.
22			04	- by 23.5 m till is slightly more clay rich and colour of clay is pale grey to khaki.
23			05	- less return due to clay component ∴ longer sample intervals.
24				
25			06	
26				(26.8-28.0) Till: cobble clast supported; 70% volcanic (mafic) 30% granitoids. Little return in matrix.
27				
28			07	
29			08	(28.0-) Till: abundant sheared, strongly oxidized mafic volcanic some hematitic. by 28.3
30			E.O.H	
31				29.3 - 29.8 Bedrock - Basalt
32				- initially ochre rock powder lumps - few rock chips
33				- thereafter pale blue green saprolitic clay lumps
34				- soft rock chips ochre and pale blue green
35				- schistose - sheared?
36				
37				29.8 E.O.H.
38				
39				
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 27 19 97
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR-97-341 LOCATION _____ ELEVATION _____
GEOLOGIST P. Colhoun DRILLER R. Legault BIT NO. CS71268 BIT FOOTAGE 38.8 - 68.6
MOVE TO HOLE 12:35-12:55
DRILL 12:55 –
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

Pg 1

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20				0.0 – Layered Reworked Till & Lake agassiz Sediments beige - light olive to grey below 3.0 m. Very slightly gritty & non gritty clay matrix 3% clasts mainly limestone (6.0 - 11.0) clay till/sand: mix of clay till as above with beds of grey poorly sorted fine grained sand - does not appear to be matrix (11.0 - 16.0) clay till: similar to 3.0 - 6.0 m. (16.0 –) clay: massive grey, non gritty clay.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 27 19 97 | HOLE NO RR-97-341 | LOCATION _____ | ELEVATION _____

GEOLOGIST _____ | DRILLER _____ | BIT NO _____ | BIT FOOTAGE _____

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE _____

DRILL _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				bgy 21.0 clay to greenish grey ± pale silty laminae.
22				
23				23.5 – 24.7 Labradorean Till
24			01	grey beige silt to fine sand matrix. Cobble clasts of composition: 60% volcanics & sediments; 40% granitoids.
25			02	- matrix is very silty – poor return. Sample #01 is undersized.
26				24.7 – 26.5 Bedrock
27				- chips are pale grey, clay off white
28				- strongly foliated clay altered chips. v. fine grained
29				- 1-2% carbonate
30				- trace diss. pyrite to 0.5% in places
31				probable protolith – siltstone int. to mafic volc.
32				26.5 E.O.H
33				
34				
35				
36				
37				
38				
39				
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 27 19 97
SHIFT HOURS
____ TO ____
TOTAL HOURS
____
CONTRACT HOURS
____

HOLE NO RR-97-342 LOCATION ____ ELEVATION ____
GEOLOGIST P. Collins DRILLER R. Legault BIT NO. CB7/268 BIT FOOTAGE 68.3 - 98.8
MOVE TO HOLE 2:30 - 2:45
DRILL 2:45 - 5:00
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE 5:00 - 6:00

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20				0.0 – 16.0 Keewatin Till beige - light ochre to grey (below 3m) very slightly gritty to non gritty clay matrix. Rare pebble clasts mainly limestone 16.0 – 23.2 Lake Agassiz Sed's grey - grey green soft non gritty c clay & silt

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 27 1997
SHIFT HOURS
____ TO ____
TOTAL HOURS
____
CONTRACT HOURS
____

HOLE NO RR-97-342 LOCATION ____ ELEVATION ____
GEOLOGIST ____ DRILLER ____ BIT NO. ____ BIT FOOTAGE ____
MOVE TO HOLE ____
DRILL ____
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

Pg 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21–30			01, 02, 03, 04, 05	23.2–28.7 Labrador ice Till grey beige silt to fine sand matrix. Cobble clasts of composition: 60% volcanics & sediments, 40% granitoids. - Till nearly clast supported - slow drilling. - 30 to 40% of clasts are sheared to varying degrees below 25.2 m. Few are weakly pyritic. 28.7–30.0 Bedrock - mafic v.f. - pale to med in green - weakly clay altered - fine grained - strong foliation to subschistose - weak shearing, chlorite-sericite - no carbonate - trace v. fine disseminated py? 30.0 E.O.H.
31–34				
15–20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 28 1997
SHIFT HOURS
____ TO ____
TOTAL HOURS
____
CONTRACT HOURS
____

HOLE NO RR-97-343 LOCATION ____ ELEVATION ____
GEOLOGIST P.Collins DRILLER R.Legault BIT NO CB71268 BIT FOOTAGE 98.8-134.8
MOVE TO HOLE 5:00-6:00 (27 km)
DRILL 8:10-12:20 (+ warming.
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER travel 7:35-8:10
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20			01	0.0-21.5 Kaministiquia Till beige lightolive to grey (below 7.0-) very slightly gritty & non gritty clay matrix. 2% small pebble clasts mainly limestone - few granitic. (7.0-13.8) clay till/mud: till as above with interbeds of poorly sorted very fine grained sand. Does not appear to be matrix (13.8-15.0) sandy till: beige limestone mud silt to fine sand matrix. pebble & small cobble sized clasts of composition: 60% limestone - sandstone 20% volcanics & metasediments; 20% granitoids (15.0-21.5) clay till: grey very slightly gritty & non gritty clay matrix. have limestone clasts

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 28 19 97 | HOLE NO RR-97-343 LOCATION _____ ELEVATION _____

GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE _____

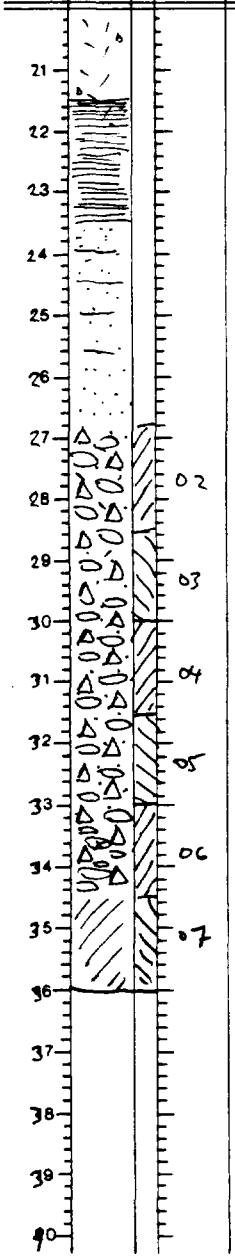
DRILL _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____



DESCRIPTIVE LOG

21.5-26.8 Lake Agassiz sediments

grades to pale greenish grey clay soft & non gritty.

(23.5-24.0) mainly grey poorly sorted silt & very fine sand fine grained in places

(26.0-26.8) grey very fine & fine grained sand occasional pebbly clast.

26.8-34.5 Labrador sea Till

mainly silt to fine sand with 3% gritty clay lumps in places. Nearly cobble clast supported 65-70% volc/seds & 30-35% granitoid

- below 28.2 many of volcanic clast, are sheared with some weakly pyritic.
- below 32.0 — up to 10% khaki gritty clay lumps in matrix and till more clast supported with up to 80% volcanic & clasts.

34.5-36.0 Bedrock

- medium green, hematite stained in places - blotchy
- appears to have fine to med grained groundmass - plag & khaki qtz phenocrysts - porphyritic
- 5% qtz/fs veinlets, negligible carbonate
- tr. arsenic? v. fine grained
- well foliated - sheared clay planes - sericitic in places

Qtz, feld. porphyry or int. volc.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 28 19 92
SHIFT HOURS
____ TO ____
TOTAL HOURS
____
CONTRACT HOURS
____

HOLE NO RR-97-344 LOCATION ____ ELEVATION ____
GEOLOGIST Calvin / Bawden DRILLER R. LEGAULT BIT NO. CB 7/264 BIT FOOTAGE 0.0 - 22.0
MOVE TO HOLE 12:20 - 1:15
DRILL 1:15 - 2:30
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

new bit and sub

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20				0.0 - 2.0 Layered keewatin Till & Lake Agassiz ~~[illegible]~~ sediment beige - light ochre - light grey to dark grey. 2.0 - 3.0 sand - poorly sorted fine grained sand. 3.0 - 6.4 clay - grey - non gritty slightly compact. 6.4 - 19.8 - clay till - grey slightly gritty & non gritty clay matrix 3% pebble clasts mainly limestone and few granitoid 19.8 - 20.5 sand - poorly sorted fine grain, beige

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 28 19 97 — HOLE NO RR-97-344 — LOCATION _____ — ELEVATION _____

GEOLOGIST _____ — DRILLER _____ — BIT NO. _____ — BIT FOOTAGE _____

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE _____

DRILL _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21			01	20.5-20.6 - Labradorean TILL.
22			02	Very thin till horizon - difficult to log accurately. Drilled bedrock and tried to wash till into hole. Retrieved samples ; however, majority 75% consists of poorly sorted fine sand from overlying unit.
3				20.6 - 22.0 Bedrock
4				- pale to medium green
5				- fine grained
6				- foliated, sheared
7				- 10-15% carbonate - calcite
8				- main mafic chlorite.
9				- no visible sulphides.
10				Basalt
11				22.0 E.O.H.
12				
13				
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 28 19 97

SHIFT HOURS
_____ TO _____

TOTAL HOURS
_____

CONTRACT HOURS
_____

HOLE NO RR-97-35 LOCATION _____ ELEVATION _____

GEOLOGIST P. Collin DRILLER R. Legault BIT NO. CB31264 BIT FOOTAGE 22.0-

MOVE TO HOLE 2:30-3:00

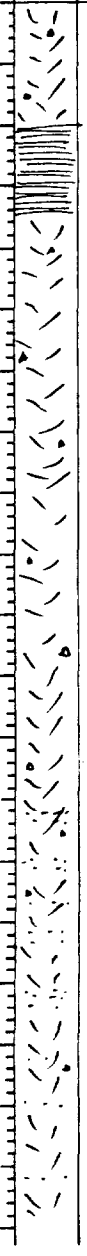
DRILL 3:00 - 4:30

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20				0.0 – Layered Keewatin Till and Lake Agassiz Sediments (0.0–2.0) clay till, grey beige slightly gritty clay matrix: 2-3% limestone pebble clasts (2.0–3.5) clay: dark grey non gritty moderately compact clay (varve) (3.5–23.8) clay till: similar to 0.0–2.0 metres below 13.0 clay till with poorly sorted very fine to fine grained sand interbeds.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 29 19 97 — HOLE NO RR-97-345 — LOCATION _____ — ELEVATION _____

GEOLOGIST _____ — DRILLER _____ — BIT NO. _____ — BIT FOOTAGE _____

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE _____

DRILL _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21–40				23.8 - 25.0 sand/clay mainly grey poorly sorted very fine to fine grained sand with occasional thin clay bed. - granitoid small boulder at 25.0 m 25.0 - Labradorean Till ? rods pushing down granitic boulder for ~ ½ metre ; Reverse very poor return and then none at all Note: at 26.0 m pull rods due to no sample return discover rod # 9 threads are sheared off - lost one other rod plus sub & bit. move back 7m and redrill - problems probably due to rods pushing down & cutting small granitic boulder at 25.0 m - turned & burnt rods snaping off at threads. 26.0 E.O.H.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 28&29 19 97
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-345A LOCATION ~5m W of 345 ELEVATION ____
GEOLOGIST P.Collins DRILLER R.Legault BIT NO. C5718306 BIT FOOTAGE 0.0 - 31.0
MOVE TO HOLE ____
DRILL 4:30 - 5:45 (28m) 8:15 - 10:00 (29m) + warmup.
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

New bit & subs

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				For description of overburden stratigraphy see log for hole 345 interval 0.0 - 25.8
22				
23				25.8-29.7 Labradorean Till
24				(25.8-26.3) Till grey beige silt to fine sand matrix. Cobble clasts of composition 55% volcanic/sediments; 45% granitoids
25				(26.3-27.2) silt/sand: small return as grey silt to very fine grained sand.
26				(27.2-29.7) till: similar to 25.8-26.3 yet nearly clast supported & volcanic/sed component increases to 65-70%
27			01	
28				
29			02	
30			03	
31				29.7 - 31.0 Bedrock. Basalt.
32				- dark green chips & med green clay lumps
33				- chips are soft clay although appear very matic
34				- strongly foliated, weakly sheared?
35				- fine grained original granitic
36				- no visible sulphides, no carbonate.
37				
38				
39				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 29 19 97 HOLE NO RR-97-346 LOCATION _____ ELEVATION _____

GEOLOGIST P. Collins DRILLER R. Legault BIT NO CB71300 BIT FOOTAGE 31.0-69.2

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE 10:00 - 10:45

DRILL 10:45 - 1:30

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

Pg 1

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20				0.0-36.5 Laurentian Kaewatin Till and Lake Agassiz Sediments beige-light olive to grey below 3.0m. slightly gritty clay matrix 30-50% lime stone clasts. -occasional poorly sorted very fine sand interbeds - does not appear to be part of unit (18.0 - 22.0) grey very slightly gritty and non gritty clay matrix Rare small pebble - limestone clasts

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 29 19 97 | HOLE NO RR-97-346 | LOCATION _____ | ELEVATION _____

GEOLOGIST _____ | DRILLER _____ | BIT NO. _____ | BIT FOOTAGE _____

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE _____

DRILL _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				(22.0 - 26.4) clay : massive grey slightly compact non gritty clay
22				
23				(26.4 - 29.3) clay till : similar to 19.0 - 22.0
24				(29.3 - 36.5) sand / clay : dominantly poorly sorted very fine to fine grained sand with non gritty clay interbeds.
25				
26				36.5 - 36.8 Labradorean Till
27				Thin till horizon - had to coast hole several times to obtain sample 70% of which is poorly sorted sand from overlying unit.
28				- grey hue silt to fine and small cobbles 70% volcanics & sediments; 30% granitoids.
29				
30				
31				
32				
33				36.8 - 38.2 Bedrock
34				- medium green - weakly clay altered
35				- subporphyritic
36				- strong foliation - subsolidus
37			01	- weakly sheared to sericitic shear planes
38			02	- 1-2% qtz veinlets
39				- no carbonate
40				- no sulphides
				Intermediate Volc. - andesite or basalt.
				38.2 E.O.H.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 29 19 97 , HOLE NO RR-97-347 LOCATION _____ ELEVATION _____

GEOLOGIST P. Colbin DRILLER R. Legault BIT NO. CO71200 BIT FOOTAGE 69.2-96.4

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOUSE 1:30-1:45

DRILL 1:45 - 4:00

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE 4:00-6:00 + clean mud tanks

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0.0 - 25.9 Laycock Keewatin Till and Lake Agassiz Sediments beige light ochre to grey below 3.5 m. 3-5% lithic pebble clasts. - occasion poorly sorted very fine sand interbeds
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 29 1997 HOLE NO RR-97-347 LOCATION _____ ELEVATION _____

GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE _____

DRILL _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				(21.5 - 23.5) clay: massive greenish grey, sandy silty clay
22				
23				(23.5 - 25.0) clay till: similar to 18.0 - 22.0
24				(23.0 - 25.9) sand: grey, poorly sorted fine grained sand.
25				(25.9 - 26.1) Labradorean Till very thin till horizon. Drill bedrock and then wash hole to obtain sample. much of sample is poorly sorted fine sand from overlying unit.
26		01		
27		02		26.1 - 27.2 Bedrock
28				- soft pale & dark green bleached to near white in places
29				- schistose - sheared sericitized, trace disseminated pyrite
30				- non calcareous
31				- main matrix chlorite
32				Basalt.
33				27.2 E.O.H.
34				
35				
36				
37				
38				
39				
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 29, 30 1997
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-348 LOCATION ____ ELEVATION ____
GEOLOGIST P. Collins DRILLER R. Legault BIT NO CO71306 BIT FOOTAGE 96.5-101.9
MOVE TO HOLE 4:00-6:00 (29th) + clean mud tanks + rig.
DRILL 8:15 - 9:30 (30th)
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0.0 - 2.8 Kaewatin Till beige - light ochre, slightly gritty clay matrix 5-7% limestone clasts
2				
3			01	2.8 - 3.7 till: definite change in till - matrix changes to silt to fine sand (beige) + 3% light ochre gritty clay lumps. 30-35% pebble and small cobble clasts comprised of locally derived volcanics 60% and 35-40% granitoids - didn't notice any limestone clasts during this interval yet matrix is carbonate rich ~5% limestone sand. ∴ probably not Labradorean till.
4				
5			OL	note: sample #01 is undersized and does contain ~25% clay rich till as in 0.0 - 2.8 as one had to clean hole to obtain extra sample.
6				
7				
8				
9				
10				
11				
12				3.7 - 5.5 Bedrock - Basalt - dark green - fine grained - foliated - unstrained yet 7% disseminated - 1-2% diss. magnetite - notice chlorite + hbl.? - no visible sulphides
13				
14				
15				
16				
17				5.5 E.O.H.
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 30 1997
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-349 LOCATION ____ ELEVATION ____
GEOLOGIST P. Collins DRILLER R. Legault BIT NO. 87305 BIT FOOTAGE 101-9-107.(
MOVE TO HOLE 9:30-9:45 also add transmission oil check filter ½ hr.
DRILL 10:15 – 11:15
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20			01	0.0 – 1.0 Keewatin Till beige-light ochre slightly gritty clay matrix 5-7 % fine pebbles
			02	1.0 – 3.3 Labradorean Till beige (orange tint) silt to fine sand matrix. Small subangular clasts of composition: 50% volcanics & sediments; 50% granitoids. 3.3 – 5.7 Bedrock - dark green, ochre - v.f. to fine grained - subschistose to schistose in places - chloritic. soft-weakly cleaved - fractured - FeO stained chips - 2-3% qtz veinlets below 5.0 - no visible sulphide - 10% disseminated calcite Basalt 5.7 E.O.L.

* note would Lab several times to obtain sample (poor coal around rods due to shallowness of bed)

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 30 19 97
SHIFT HOURS
____ TO ____
TOTAL HOURS
____
CONTRACT HOURS
____

HOLE NO RR-97-350 LOCATION ____ ELEVATION ____
GEOLOGIST P. Collins DRILLER R. Legault BIT NO. CR71306 BIT FOOTAGE 107.6-114
MOVE TO HOLE 11:15-11:30
DRILL 11:30-12:35
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20			01	0.0 - 3.6 Keewatin Till beige to light ochre slightly gritty clay matrix. few limestone pebble clasts
			02	3.6 - 5.2 Labradorean Till beige (slightly oxidized) silt to fine sand matrix. Cobble clasts of composition: 40% Volcanics | sedi / 60% granitoids at 4.8 matrix grey beige less oxidized with up to 40% grey gritty clay lumps. clast composition changes to 60% volcanics
				5.2 - 6.6 Bedrock - dark green - fine grained - well foliated - main matrix chlorite - 2-3% stringers | disseminated calcite - trace disseminated pyr. - trace epidote Basalt
				6.6 E.O.H

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan. 30 1992
SHIFT HOURS
____ TO ____
TOTAL HOURS
____
CONTRACT HOURS
____

HOLE NO RR-97-351 LOCATION ____ ELEVATION ____
GEOLOGIST Collins/Davidson DRILLER R. LEGAULT BIT NO. CB71306 BIT FOOTAGE 114.2 - 122.
MOVE TO HOLE 12:15 - 12:30
DRILL 12:30 - 1:15
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–6				0.0 - 6.7 Kaministiquia Till - beige to light ochre - slightly gritty clay matrix - few limestone pebble clasts No Laboratory Till below bedrock
6–8			01	6.7 - 8.6 Bedrock - dark green - fine grained - foliated, weakly sheared - 10 - 12% disseminated carbonate - Trace disseminated pyrite - chlorite ma. mafic - Basalt.
9–20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 30 19 97
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR-97-352 LOCATION _____ ELEVATION _____
GEOLOGIST P. Collins DRILLER R. Legault BIT NO CB71306 BIT FOOTAGE 122.7-129.2
MOVE TO HOLE 1:15 - 1:45
DRILL 1:45 - 3:00
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0.0 - 3.5 Keewatin Till beige to light olive slightly gritty clay matrix. Few limestone pebble clasts
2				
3				3.5 - 5.2 Labradorean Till (3.5 - 3.8) boulder - mafic volcanic
4			01	(3.8 - 5.2) beige silt to fine sand matrix with up to 40% gritty clay. Cobble clasts 65% volc/sed's: 35% granitoids
5				
6			02	5.2 - 6.5 Bedrock - medium to dark green - fine grained - foliated, weakly sheared - 10-12% dissected calcite ± stringers. - trace pyrite disseminated coarse cubic - chlorite main matrix
7				Basalt.
8				6.5 E.O.H.
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 30, 31 19 97
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-353 LOCATION ____ ELEVATION ____
GEOLOGIST P. Collins DRILLER R. Legault BIT NO. CB71304 BIT FOOTAGE 129.2-155.5
MOVE TO HOLE 3:00-3:45
DRILL 3:45 - 6:00 (30M) 8:15 - 10:15 (31rst)
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1-20			01, 02	0.0 - 15.0 Keewatin Till beige - light olive to grey below 3.0m slightly gritty clay matrix 5% pebbly limestone clasts. (9.4 - 15.0) grey, very slightly gritty and non gritty clay matrix. Moderately compact - rare limestone pebble clasts (15.0 - 17.5) Lake Agassiz Sediments Sand: poorly sorted grey beige fine grained sand. 17.5 - 25.0 Labradorean Till grey beige silt to fine sand matrix Cobble clasts of composition 55% volcanics & sediments.; 45% granitoids (18.8 - 21.0) till matrix is coarse buried & sorted in places (silt deficient) otherwise no change.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 30 19 97 | HOLE NO RR-97-353 | LOCATION _____ | ELEVATION _____

GEOLOGIST _____ | DRILLER _____ | BIT NO _____ | BIT FOOTAGE _____

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE _____

DRILL _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21			03	(21.0 - 23.) Till is cobble clast supported with up to 70% mafic volcanic clasts in places. - there are occasional discrete pebble and cobble clasts ~2% overall.
22			04	
23			05	(23.0 - 24.0) Till cobble clast supported as above clast composition: 55% mafic volcanics / sed's, 45% granitics
24			06	(24.0 - 24.5) sand / clay, mainly poorly sorted fine grained sand few rounded grey clay partings
25			07	(24.5 - 25.0) Till similar to 23.0 - 24.0
26				25.0 - 26.5 Bedrock
27				- light & charcoal grey
28				- silty - occasional fine grained beds
29				- well foliated - subschistose - fissile
30				- sheared - sericitized slip planes ± pyrite ± pyrrhotite
31				- 2% discordant & stringer calcite
32				Siltstone /
33				26.5 E.O.H.
34				
35				
36				
37				
38				
39				
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 31 1997
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR-97-354 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. CB71306 BIT FOOTAGE 155.7 – 185.7
MOVE TO HOLE 10:15 - 10:30
DRILL 10:30 – 12:00
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20				0.0 - 0.5 organics - peat moss 0.5 – 25.0 Kaowatin Till beige to grey (below 3m) slightly gritty clay matrix. 5-7% limestone + sandstone pebble clasts. (8.0 - 23.0) very slight gritty to non gritty grey clay matrix (moderately compact) Rare limestone clasts.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 31 19 97
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-97-354 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				25.0 – 27.0 Lake Agassiz Sediments poorly sorted very fine to fine grained sand.
22				
23				27.0 – 28.4 Labradorean Till grey beige silt to fine sand matrix supported till. Cobbles of composition 55% volcanics/seds 45% granitoids
24				
25				
26				
27				28.4 – 30.0 Bedrock - medium to dark green - fine grained - well foliated - sheared? 10% disrupted calcite - mineralization chlorite - ~~no visible sulphides~~. - trace disseminated cubic pyrite.
28			01	
29			02	
30				Basalt 30.0 E.O.H.
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 31 19 97
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR-97-355 LOCATION _____ ELEVATION _____
GEOLOGIST Chris Pearson DRILLER R. Legault BIT NO. CB71306 BIT FOOTAGE 185.7-204.2
MOVE TO HOLE 12:00 - 12:15
DRILL 12:15 - 2:00
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–16				0.0 - 9.0 Recent Till - light beige to dark grey - 3% clasts, mainly limestone, some sandstone 9.0 - 16.4 - gritty to less gritty clay - less pebble clasts, mainly limestone 16.4 - 17 - Labradorean Till - grey, beige silt to fine grained sand plus some cobbles - 60% granitoid 40% volcanic * washed hole several times to produce enough for sample
17			01	17.0 Bedrock - dark green - fine grained - well foliated - weak sheared - main mafic mineral chlorite - 10% disseminated & stringer calcite - trace disseminated pyrite
18			02	Basalt. EOH 18.5
19–20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Jan 31 19 97
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-356 LOCATION ____ ELEVATION ____
GEOLOGIST P.Collins DRILLER R Laymit BIT NO CR31306 BIT FOOTAGE 204.2 - 221.7
MOVE TO HOLE 2:00-2:30
DRILL 2:30 - 4:30
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER check on bulldozer for access to two additional holes 4:30-5:45
MOVE TO NEXT HOLE leave drill at site - use tractor Feb 1st moving.

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20				0.0 - 15.2 Keewatin Till (0.0 - 8.0) beige - light ochre to grey below 3.0m. ~ 5% limestone + sandstone pebble clasts (8.0 - 15.2) grey, very slightly gritty and non gritty clay rare pebble clasts - mainly limestone. 15.2 - 16.0 Labradorean Till grey beige silt to fine sand matrix supported till Cobble clasts of composition: 45% volcanics & seds / 55% Granitoids - some of volcanic clasts are sheared - sericitic. * washed hole couple of times to get enough for a sample. 16.0 - 17.5 Bedrock - pale silvery green - fine grained groundmass 5-7% blue qtz + plag phenocrysts - schistose - strongly sheared sericitized - no visible sulphides - no carbonate - qtz + tourmaline veinlet at 17.5m Intermediate Volc. - Dacite
15			01	
17			02	

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 1 19 92

SHIFT HOURS

_____ TO _____

TOTAL HOURS

_____

CONTRACT HOURS

_____

HOLE NO RR-97-357 LOCATION _____ ELEVATION _____

GEOLOGIST Collins/Addison DRILLER R. LEGAULT BIT NO CB71306 BIT FOOTAGE 2217-2240'

MOVE TO HOLE 8:30 - 10:00

DRILL 10:00 - 12:00

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–13				0.0 - 13.5 Keewatin Till - beige to grey - slightly gritty clay matrix - 5% pebble clasts mainly limestone.
13–17				13.5 - 17.0 Labradorean Till - beige, silt to fine grained sand matrix - cobble clasts of 60% granitoid, 40% volcanic.
17				17.0 Bedrock Intermediat Volc
14–15			01	
17–18			02	
19–20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 01 1997
SHIFT HOURS
____ TO ____
TOTAL HOURS
____
CONTRACT HOURS
____

HOLE NO RR-97-358 LOCATION ____ ELEVATION ____
GEOLOGIST P. Collins DRILLER R. Legault BIT NO. CB71302 CB71277 BIT FOOTAGE 240.4 - 244.0 0.0 -
MOVE TO HOLE 12:00 - 12:30
DRILL 12:30 - 2:30
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER wait for water ½ hr - bad seal on rock - lost water quickly
MOVE TO NEXT HOLE ____
New bit.

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20			01	0.0 - 3.0 **Keewatin Till** beige - light ochre slightly sandy clay matrix. 5% pebble clasts mainly limestone.
			01 – bit worn out.	3.0 - 6.4 **Labradorean Till** beige (oxidized) silt to fine sand matrix. Cobble clasts of composition 60% granitoid; 40% volcanics & sediments. tonalite boulder at 3.0-3.2 very rocky till - clast supported hard to drill
			02	
			03	6.4 - 8.4 **Bedrock** - mottled pink red & green (hematite stain) - porphyritic : 30% blue qtz & feldspar phenocrysts qtz phenos up to 5mm diameter. - groundmass is fine grained - weak to moderately stained Schistose slip planes chlorite ± sericite - 5-7% disseminated & stringer calcite - no visible sulphides Qtz feldspar porphyry

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 01 1997
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RL-97-359 LOCATION ____ ELEVATION ____
GEOLOGIST P. Collins DRILLER R. Legault BIT NO. CB71277 BIT FOOTAGE 4.2 - 35.7
MOVE TO HOLE 2:30 - 3:30
DRILL 3:30 - 6:00
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20				0.0 - 23.0 Keewatin Till (0.0-8.0) beige to light-olive to grey (below 3 m) slightly gritty clay matrix. 5% limestone pebble clasts (8.0-23.0) grey very slightly gritty and non gritty clay matrix. Rare limestone pebble clasts

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 01 1997
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-359 LOCATION ____ ELEVATION ____
GEOLOGIST ____ DRILLER ____ BIT NO. ____ BIT FOOTAGE ____
MOVE TO HOLE ____
DRILL ____
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				23.0 - 26.0 Lake Agassiz Sediments mainly poorly sorted grey very fine to fine grained sand occasional thin clay seam
22				
23				
24				26.0 - 30.7 Labradorean Till gray beige silt to fine sand matrix. Nearly calcilable clast supported - clast composition: 65% Granitoids; 35% Volcanic & sediments.
25				
26			01	
27			02	(27.5 - 27.8) sand: sorted coarse grained sand bed.
28				
29			03	(27.8 - 29.8) till: sandy matrix supported; similar clast composition as before
30			04	(29.8 - 30.4) boulder - granitic
31			05	(30.4 - 30.7) till: similar to 27.8 - 29.8 note: sample #04 is undersized.
32				
33				30.7 - 31.5 Bedrock - pale gray green - very fine grained - strongly foliated, sheared - tr. stringer calcite - trace disseminated pyrite Intermediate Volcanic
34				
35				
36				
37				
38				
39				
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb. 2 19 97

SHIFT HOURS
_____ TO _____

TOTAL HOURS
_____

CONTRACT HOURS
_____

HOLE NO AP-97-360 LOCATION _____ ELEVATION _____

GEOLOGIST FOLLINS/ADAMOSKI DRILLER R. LEGAULT BIT NO. CB 71277 BIT FOOTAGE 35.7-73.2

MOVE TO HOLE 8:00 - 9:30

DRILL 9:30 - 2:30

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20				0.0-26.0 Keewatin Till. - grey gritty to non gritty clay matrix - 30% cobble clasts, mainly limestone.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 02 19 97 HOLE NO RL-97-360 LOCATION _____ ELEVATION _____

GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE _____

DRILL _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				26.0 - 26.6 Lake Agassiz Sediments grey poorly sorted fine grained sand.
22				
23				26.6 - 36.3 Labradorean Till
24				grey silt to fine sand matrix. Cobble clasts of composition: 50% volcanics & seds; 50% granitoids.
25				- till inversely clast supported down interval
26				- below 30m 2-3% limestone pebble clasts in places.
27				
28			01	29.2 - 29.7 boulder - tonalite
29			02	- below 30.7 m clast composition changes to 65% mafic volcanics & seds; 35% granitoids
30			03	
31				below 33.0 - 20% of clasts are pyritic - mafic volcanics, porphyry? & intermediates
32			04	- majority of matrix is ~10 mesh rock cuttings - very slow drilling
33			05	
34			06	36.3 - 37.5 Bedrock
35				- light green - pink - grey (weak hematite stain)
36			07	- porphyritic 10% blue qtz eyes (plag.) 15% feldspar phenos
37			08	- strongly sheared - sericitized groundmass
38				- 7% tourmaline 2% specs. hematite
39				- 2% calcite stringers
40				- Tr. - disseminated pyrite
				Dacite
				37.5 E.O.H.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 23 19 97 HOLE NO RR-97-361 LOCATION _____ ELEVATION _____

GEOLOGIST P. Collins DRILLER L. Legault BIT NO. CB71277 BIT FOOTAGE 73.2 - 114.

SHIFT HOURS _____ TO _____ MOVE TO HOLE 2:30 - 3:15 CB71239 0.0 -

TOTAL HOURS _____ DRILL 3:15 - 6:00 (2nd) 8:00 - 12:40 (3rd)

CONTRACT HOURS _____ MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

New bit & sub

Pg 1

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20				0.0 - 23.5 Keewatin Till beige light ochre to grey (below 3.0 m) very slightly gritty and non gritty clay matrix. Rare basalt pebble clasts

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 2 19 97 — HOLE NO RR-97-361 — LOCATION _____ — ELEVATION _____

GEOLOGIST _____ — DRILLER _____ — BIT NO. _____ — BIT FOOTAGE _____

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE _____

DRILL _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21–40				23.5 – 27.8 Lake agassiz Sed: poorly sorted grey very fine to fine grained sand with occasional thin clay seam 27.8 – 47.0 Labradorean Till (27.8 – 30.0) grey beige silt to fine sand matrix. Cobble clasts of composition: 55% volcanics & sed; 45% granitoids (30.0 –) Till matrix supported sandy with occasional sorted & poorly sorted medium & coarse sand beds. Granitoid component 70%. (31.8 – 32.0) sand-pebble bed: mainly poorly sorted beige fine grained sand with occasional pebble bed. (33.0 – 33.6) sand grey poorly sorted silty very fine to fine grained sand. (33.6 – 35.7) Pebbly sand, very sandy – slightly muddy in places. Changes between fine-medium & coarse sand with granules. Pebbly beds are mainly rounded clasts of composition 70% granitoids; 30% volc. & sed. 35.7 – 45.2 Till: grey beige slightly sorted fine to med sand matrix. Cobble clasts of composition 50% volcanics & sed's; 50% granitoids. – very nicely mineralized cobble at sample change 38.3 m up to 20% disseminated pyrite (probable massive volc) – below 38.0 till is very cobbly – dust supported with 80% volcanics some of which are weakly pyritic.
21				
22				
23				
24				
25				
26				
27				
28			01	
29				
30			02	
31				
32			03	
33				
34			04	
35				
36				
37			05	
38			06	
39			07	EOH Feb 2.
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 2,3 1997
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR-97-361 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
41			07	45.2 - 47.0 very cobbly with few small boulders - return mn blnish green rock powder in places - probably not matrix but probable grinding of cobbles.
42			08	
43			09	
44			10	
45				
46			11	
47				47.0 - 48.5 Bedrock
48			12	- initially fairly fluid brown qtz vein 0.2 m - remainder dominantly blnish green rock powder - clayey, - very few strongly bleached clay altered chips. - chlorite probable protolith basalt.
49				
50				
51				
52				
53				
54				
55				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 3 19 97
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-362 LOCATION ____ ELEVATION ____
GEOLOGIST P.Collins DRILLER Reyault BIT NO 2071279 BIT FOOTAGE 7.0 –
MOVE TO HOLE 12:40 - 1:00
DRILL 1:00 - 6:00
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20				0.0 Keewatin Till (0.0-7.0) beige to grey (below 3.5m) slightly gritty clay matrix. 5% limestone + siltstone clasts. (7.0-9.5) grey slightly compact very slightly gritty to non gritty clay matrix. rare limestone clasts. (9.5-9.8) pebbly sand: beige poorly sorted fine grained sand: 90% limestone pebbles & granules. 10% granitoids & other sediments (9.8-17.8) clay till: similar to 7.0-9.5 with even fewer clasts - non gritty clay/pale grey 17.8 Labradorean Till grey beige silt to fine sand matrix. Cobble clasts - nearly clast supported - composition: 60% granitoids 40% volcanics & sediments. 19.3- grey gritty clay matrix. up to 35% compact

18 01

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 3 1997 HOLE NO RR-97-362 LOCATION _____ ELEVATION _____

GEOLOGIST _____ DRILLER _____ BIT NO _____ BIT FOOTAGE _____

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE _____

DRILL _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21			02	20.0 - 34.2 cobble clast angular chips to 65% volcanics ; 35% granitoids. few small granitoid boulders in places. 1 to 2 % limestone in places
22			03	
23			04	- little variation in till down interval - very cobbly - slow drilling. very few stained or mineralized clasts
24				
25			05	
26			06	
27				
28			07	
29			08	34.2 - 35.6 Bedrock
30				- medium green
31			09	- fine grained
32			10	- chlorite schist weakly sericitized
33				- no visible sulphides
34			11	- no carbonate
15			12	- at 35.0 m - chips are hematite stained Basalt. Probable fracture
16				35.6 E.O.H.
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 4 19 97
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-363 LOCATION ____ ELEVATION ____
GEOLOGIST K MacNeil DRILLER R Legault BIT NO CB71279 BIT FOOTAGE 42.6-66.1
MOVE TO HOLE 9:00-9:15
DRILL 9:15-12:00
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER 8:00-9:00 Hole 361 making water -- no plug
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20			01, 02, 03, 04, 05	0 - 12.9 Keewatin Till oxidized beige to ~3mm; dull grey in color below ~3m. slightly gritty clay matrix; minor pebbles and granules 12.9 - 21.8 Labradorean Till grey beige, unsorted fine sand and silt matrix -- matrix supported; cobbly; 65% : 35% volcanics/sediments versus granitoids; conspicuous well foliated (shear) clasts 16.2 - 16.4 boulder :- granitoid 18.8 - 19.4 boulder :- sheared sericite - chlorite granular sediment/tuff - below 19.4m, 90% of till clasts are similar to boulder from 18.8 - 19.4m 20.3 - 21.9 bedrock rubble or till-like matrix

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 4 1997
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR-97-363 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21			06	21.9 - 23.5 Bedrock:- andesite pale green with minor local bleaching; well foliated to sub-schistose -- shear planes at 1-2 mm spacings; rubbly, granular appearance -- may be plag. porphyritic or granular appearance may be shear induced; non-calcareous; no visible sulf. des
22				
23			07	23-23.2m - much of sample ground to blue grey clay
24				23.5m (78') EOH
25				
26				
27				
28				
29				
30				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 4 1997
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-364 LOCATION ____ ELEVATION ____
GEOLOGIST MacNeil DRILLER Legault BIT NO. CB71279 BIT FOOTAGE 661-1053
MOVE TO HOLE 12:00 - 12:36
DRILL 12:30 - 4:15
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER 4:15 - Clean mud tanks; oil change
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20				0 - 0.8 Organics 0.8 - 20.3 Layered Keewatin Till and Late Agassiz Sediments 0.8 - 19 till:- oxidized beige to ~3.5m and grey below 3.5m; slightly gritty clay matrix; rare pebbles & granules; lesser grit with depth 19 - 20.5 sand predominant with laminations of gritty till 20.5 - ~25.5 clay till -- as from 0.8 - 19m ~25.5 - 28.3 clay/silt:- varved non-gritty grey clay and grey beige silt

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 4 1997
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-364 LOCATION ____ ELEVATION ____
GEOLOGIST ____ DRILLER ____ BIT NO. ____ BIT FOOTAGE ____
MOVE TO HOLE ____
DRILL ____
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				28.3 - 37.8 Labradorean Till
22				matrix supported by grey-beige unsorted fine sand and silt; cobbly clasts comprise 65:35% volcanics/sediments versus granitoids -- conspicuous sheared sericitic clasts, some with minor pyrite
23				- below 30m, till is close to clast supported with fewer sheared clasts
24				30.9 - 31.1 boulder:- diabase
25				32.5 - 33.1 grey brown, gritty matrix clay (ground rock)
26				- below 33.1, cobbly clast supported till; fine sand matrix becoming more abundant and till is matrix supported below 34m
27				36.7 - 37 boulder:- granodiorite
28				
29			01	
30				
31			02	37.8 - 39.2 Bedrock:- basalt
32				37.8 - 38.6 med-green; fine grained (<0.1mm) moderately foliated, non-calcareous; no sulf. det; parts ground to green beige clay
33			03	
34			04	38.6 - 39.2 coarse (0.3mm) more massive basalt. 60% plag, 40% chloritized mafic minerals
35			05	
36				
37			06	39.2 - (131') EOH
38				
39			07	
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 5 19 97
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-365 LOCATION ____ ELEVATION ____
GEOLOGIST MacNeil DRILLER Legault BIT NO. CBH308 BIT FOOTAGE 0-37.5
MOVE TO HOLE ____
DRILL 8:00 - 11:45
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER 7:30-8:00 Travel
MOVE TO NEXT HOLE ____

New Bit

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0-0.1 Organics/soil
2				0.1-18.5 Layered Weathered Till and Lake Agassiz sediments
3				0-17.4 till:- oxidized to ~2m; dull grey very clay rich till with sparse pebbles & granules mostly of limestone & granitoids,
4				- minor fine sand laminae(?) from 9.5-12.5m and possibly some clay/silt varves below 14m but section is dominantly clay till
5				17.4-18.5 sand:- grey beige; very fine grained to silty
6				
7				
8				18.5-35.7 Layered Labradorean Till and Related Sediments
9				18.5-20.4 till:- matrix supported by grey beige unsorted fine sand & silt; cobbly; 55:45 vols/sediments massive granitoids with conspicuous shard sericitic clasts and minor ballgz
10				- below 19.6, common med. to coarse matrix sand
11				
12				20.4-23.4 sand:- fine to coarse & poorly sorted to ~21m; below 21m, med. sand dominant
13				
14				
15				
16				
17				
18				
19			01	
20				

Lose 2 rods, bit, sub downhole; scrap ladd. hand rod -- broken @ threads

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 5 1997
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-365 LOCATION ____ ELEVATION ____
GEOLOGIST ____ DRILLER ____ BIT NO ____ BIT FOOTAGE ____
MOVE TO HOLE ____
DRILL ____
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				23.4 – 26.6 till:- matrix supported by fine to medium sand -- silt deficient; clasts as in till from 18.5 – 20.4
22			02	
23				26.6 – 34.4 sand:- poorly sorted med. to coarse sand with some pebbles; dominantly medium sand below 28m with fewer pebbles; below 32.4m, fine grained sand
24			03	
25			04	
26				34.4 – 35.7 till:- matrix supported by unsorted fine sand silt; cobbly; 60:40 volcanic:mesozoic granitoids
27			05	
28				35.7 – 37.5 m Bedrock: - basalt green; fine grained; moderately well foliated -- unsheared; rare qz. veinlets; minor disseminated calcite; no visible sulfides
29				
30			06	
31				
32				
33			07	
34				37.5m (125') EOH
35			08	
36				
37			09	
38				
39				
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 5 1997
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-366 LOCATION ____ ELEVATION ____
GEOLOGIST MacNeil DRILLER Legault BIT NO. CB71276 BIT FOOTAGE 0-345
MOVE TO HOLE 11:45-12:06
DRILL 12:06 - 3:36
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

* New Bit; New Sub *

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20				0-0.6 Organics / soil 0.6 - 25.3 Layered Keewatin Till and Lake Agassiz Sediments 0.6 - 17.3 till:- oxidized beige to ~3.5m; dull grey gritty clay matrix with sparse pebbles and granules -- dominantly limestone; minor interlayered clay layers and silty sand seams 17.3 - 18.3 gravel:- medium grained sand matrix - pebbly; 60% limestone, 25% granitoids, 15% sands, volcanics 18.3 - ~23.6 till:- dull grey gritty clay matrix; sparse pebbles, granules ~ 23 - 25.3 clay/silt:- varved non-gritty clay and grey-beige silt

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 5 1997
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-366 LOCATION ____ ELEVATION ____
GEOLOGIST ____ DRILLER ____ BIT NO. ____ BIT FOOTAGE ____
MOVE TO HOLE ____
DRILL ____
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				25.3 - 33 Labradorean Till
22				matrix supported by grey-beige unsorted fine sand & silt matrix; cobbly; clasts comprise 55% volcanics/sediments and 45% granitoids - conspicuous sheared sericitic clasts, sometimes containing pyrite
23				- small silicified volcanic boulder @ 27.1m
24				- below 27.3 m, till is clast supported
25				31.1 - 31.4 boulder:- tonalite
26			01	32.6 - 32.8 boulder:- tonalite
27				
28			02	33 - 34.5 Bedrock:- basalt
29			03	basalt with ~50% vein quartz to 33.6m; basalt is green, fairly coarse (~0.2mm - 0.3mm); vein quartz contains feldspar near margins; both basalt & veins are non-calcareous
30				- below 33.6m, basalt as before but no vein quartz
31			04	
32			05	
33				
34			06	34.5m (115') EOH
35				
36				
37				
38				
39				
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 5 1997
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR-97-367 LOCATION _____ ELEVATION _____
GEOLOGIST K MacNeil DRILLER R Legault BIT NO. CB71276 BIT FOOTAGE 34.5-61.5
MOVE TO HOLE 3:30-3:45
DRILL 3:45-5:45
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER 5:45-6:30 Travel
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20				0-0.4 Organics/soil 0.4-23.9 Layered Keewatin Till and Lake Agassiz Sediments 0.4-~21.5 - till:- oxidized to ~2m; till has a gritty clay matrix with sparse pebbles and granules @13m, pebbly sand seam -- pebbles are mostly limestone ~21.5-23.9 clay/silt:- grey, non-gritty clay varved with grey-beige sticky silt

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 5 1997
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-367 LOCATION ____ ELEVATION ____
GEOLOGIST ____ DRILLER ____ BIT NO. ____ BIT FOOTAGE ____
MOVE TO HOLE ____
DRILL ____
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				23.9 - 25.4 Labradorian Till :- matrix supported by grey-beige, unsorted fine sand and silt, cobbly; 55:45 volcanic/sediments versus granitoids/gniss -- There appears to be less sheared clasts than in Hole 366
22				
23				
24				
25			01	25.4 - 27 Bedrock :- basalt : medium green; poorly foliated grain size ~0.1mm to may be finely amygdaloidal; slightly calcareous, particularly along fractures; no visible sulfides; very rare trace of native copper along fractures
26			02	26.6 - 26.8 pale green epidote alteration accompanied by weak calcite and quartz stringers
27				27m (90') EOH
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 6 1997
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-97-36B LOCATION _____ ELEVATION _____
GEOLOGIST KMac Nicol DRILLER RLegault BIT NO CB71276 BIT FOOTAGE 61.5-80.0
MOVE TO HOLE 8:00-8:15
DRILL 8:15-9:45
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER 7:30-8:00 Travel
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20			01, 02	0-0.4 Organics 0.4-15 Layered Keewatin Till and Lake Agassiz Sediments 0.4-15 Till:- slightly gritty clay matrix; scarce pebbles and granules -- dominantly limestone and granitoids; vestiges of clay and silt layers apparent locally @ 4.4m -- small sedimentary boulder ~9.5-10.5m - limestone rich medium sand interlayered with till 15-16.6 Labradorean Till matrix supported by grey-beige, unsorted fine sand and silt; cobbly; 50:50 volcanics/sediments versus granitoids -- little or no shearing evident 16-16.2 minor oxidized brown gritty matrix clay (rock flour) 16.6-18.5 Bedrock:- basalt:- dark green; poorly foliated; grain size 0.1-0.3 mm (granular appearance) -- may be weakly plag. porphyritic; common quartz veinlets from 16.7-17 m; non-calcareous; non-magnetic; no visible sulfides - below 18m, moderate amounts (±5%) of disseminated calcite 18.5m (62') EOH

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 6 19 97
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-369 LOCATION ____ ELEVATION ____
GEOLOGIST K MacNeil DRILLER R Legault BIT NO. CB71276 BIT FOOTAGE 80-105
MOVE TO HOLE 9:45-10:45
DRILL 10:45 - 3:00
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0-0.1 Organics / soil
				0.1 - 9.9 Keewatin Till
				oxidized beige to ~3.5m; grey (unoxidized) below 3.5m; gritty clay matrix with sparse pebbles and granules -- dominantly limestone
				9.9 - 23.8 Labradorean Till
				grey-beige unsorted fine sand and silt matrix - matrix supported; cobbly; 50:50 volcanics/sediments versus granitoids/gneiss -- very rare sheared clasts
				10.9 - 11.5 grey green gritty clay matrix
				- below 11.5m, sand-silt matrix with local gritty clay
				- @ 13.8m, small tonalite boulder
				- below 13.9m, variable proportions of matrix clay versus matrix sand
				- @ 16 m, small basalt boulder
				16.2 - 16.5m - boulder:- granodiorite
				- below 16.5m, clasts are 65:35 volcanics/sediments versus granitoids/gneiss
				19.1 - 19.4 clay/silt:- compact, pale grey clay and grey-beige silt
				19.4 - 23.8 till:- variable gritty clay + fine sand/silt matrix; cobbly; clasts as for 16.5 - 19.1m

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 6 1997
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-369 LOCATION ____ ELEVATION ____
GEOLOGIST ____ DRILLER ____ BIT NO ____ BIT FOOTAGE ____
MOVE TO HOLE ____
DRILL ____
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

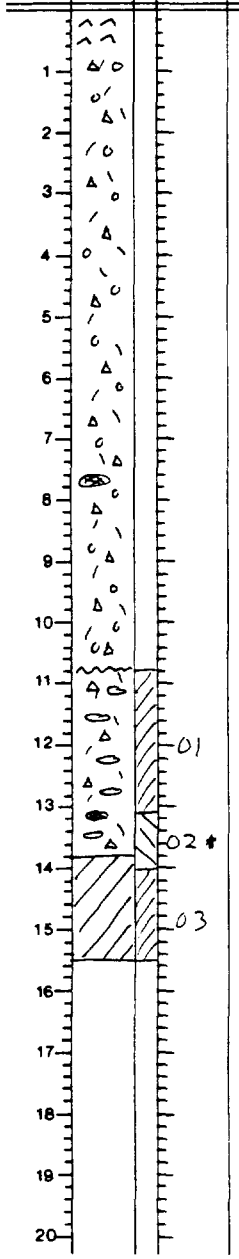
DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21			08 (continued)	
22			09	23.8 - 25.0 Bedrock :- basalt medium green, very fine grained to aphanitic; finely foliated; soft -- clay - chlorite alteration; locally oxidized; minor amount to ground & pale green and brown clay; non-calcareous; no visible sulfides
23			10	
24				
25			11	25m (83') EOH
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 6 1997
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-370 LOCATION ____ ELEVATION ____
GEOLOGIST K MacNeil DRILLER R Legault BIT NO CB71307 BIT FOOTAGE 0-15.5
MOVE TO HOLE 3:00 - 3:15
DRILL 3:15 - 4:45
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE 4:45 -

* New Bit



0 - 0.5 Organics/soil

0.5 - 10.8 Keewatin Till
oxidized to ~3m; slightly gritty clay matrix; sparse pebbles and granules -- dominantly limestone
7.6 - 7.8 boulder :- basalt
- lesser grit and pebbles in till below 8m

10.8 - 13.8 Labradorean Till
matrix supported; grey gritty matrix clay with fine sand and silt becoming dominant below 12.5m; cobbly; 50:50 vols/vols visible granitoid
13.1m -- small pale green basalt boulder
- below 13.3m, matrix clay more abundant -- pale grey beige ground rock flour

13.8 - 15.5m Bedrock :- basalt(?)
bleached; soft and clay altered, much ground to pale grey non-calcareous clay; competent chips are pale grey green, fine grained (<0.1mm) and finely schistose; rock chips are non-calcareous with no visible sulfide.

15.5m (52') EOH

* Sample 02 -- small sample, includes bedrock cuttings

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 7 19 97
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR-97-371 LOCATION _____ ELEVATION _____
GEOLOGIST K MacNeil DRILLER R Lagault BIT NO. CD71307 BIT FOOTAGE 15.5 - 30.5
MOVE TO HOLE _____
DRILL 8:00 -
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER 7:30 - 8:00 Travel
MOVE TO NEXT HOLE _____

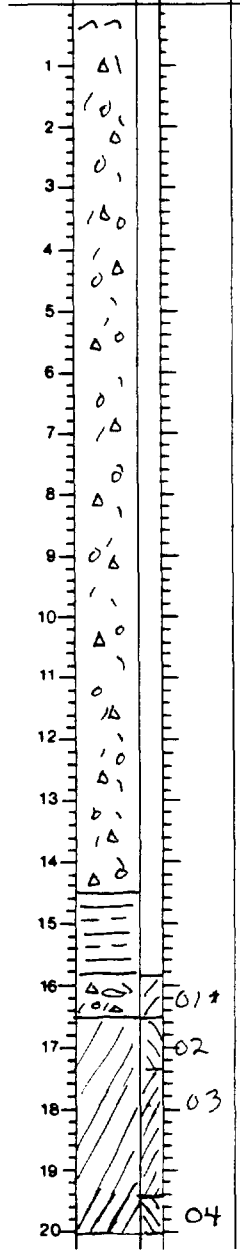
DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0 - 0.1 Organics
2				0.1 - 11.3 ~~Labradorean~~ Keewatin Till : oxidized beige to ~3m and unoxidized grey below 3m; slightly gritty clay matrix; sparse pebbles and granules, dominantly limestone
3				
4				
5				11.3 - 12.3 Labradorean Till grey-green gritty clay matrix; pebbly; 50:50 units : granitoids
6				
7				12.3 - 15.0 m Bedrock :- saprolite pale grey-blue color; most ground to fine silt-clay and washes away in drill (water); "competent" chips are fine grained, foliated and clay altered -- grey blue in color and non-calcareous
8				- below ~13m -- drusy veinlet quartz overrepresented in return
9				- below 13.5, little veinlet qz; saprolite more of a blue-green color - basalt probably?); veinlet quartz once again prominent below 13.7m -- traces of native Cu at veinlet margins; little veinlet qz below 14.2 --
10				- most of sample washed away in drill water below 14.5m
11				
12			01	
13				
14			02	
15				15m (50') EOH
16				
17				
18				
19				
20				

* Sample 01 - very small; due to clay rich matrix unable to wash enough to obtain larger sample; 01 includes bedrock cuttings

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 7 1997
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-97-372 LOCATION _____ ELEVATION _____
GEOLOGIST MacNeil DRILLER Legault BIT NO. CB71302 BIT FOOTAGE 30.5 - 50.5
MOVE TO HOLE 10:15 - 10:30
DRILL 10:30 - 12:45
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____



DESCRIPTIVE LOG

0 - 0.5 Organics

0.5 - 15.9 Layered Keewatin Tillard Lake Agassiz Sediments

0.5 - 14.5 till :- oxidized beige brown to 3 m, grey below 3 m; slightly gritty clay matrix; sparse pebbles and granules dominantly limestone granitoid pebbles
- lesser quartz pebbles downhole

14.5 - 15.9 clay/silt :- varved grey non gritty clay and grey-beige silt

15.9 - 16.5 Labradorean Till :- matrix supported by grey-green gritty clay -- green color due to abrasion of soft weathered bedrock; pebbles & cobbles; 70:30 volcanics/sediments versus granitoids

16.5 - 20 Bedrock : basalt

16.5 - 17.3 - green; fine grained (0.1 - 0.2 mm) poorly foliated; plag - chlorite mineralogy; non calcareous

17.3 - 19.5 mostly sample ground to pale grey blue; non-calcareous sand/clay; "competent" chips are well foliated, soft and clay altered and friable; medium green in color, probable basalt protolith
- below 19.3 m, white bull quartz commonly presented in sample return
- 19.4 - 19.65 qz vein :- white bull qz with dark grey, possibly tourmaline rich margins; traces of calcite; no sulfides
19.65 - 20 m -- saprolite rock -- most ground to sand/clay by bit

* Sample 01 is undersized

20 m (67') EOH

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 7 19 97
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-373 LOCATION ____ ELEVATION ____
GEOLOGIST K MacNeil DRILLER R Legault BIT NO CB71367 BIT FOOTAGE 5005-85
MOVE TO HOLE 12:45-1:00
DRILL 1:00 - 3:45
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER 6:00 - 6:30 Travel
MOVE TO NEXT HOLE 3:45 - 6:00 Teardown, move, spot hole, set up

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20				0 - 0.3 Organics 0.3 - 26.1 Layered Keewatin Till and Lake Agassiz Sediments 0.3 - ~24 till:- oxidized beige-brown to ~3 m, grey, unoxidized below 3m; slightly gritty clay matrix; sparse granules and pebbles dominated by limestone & granitoids ~24 - 26.1 sand:- grey; fine grained; well sorted

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 7 19 97
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-373 LOCATION ____ ELEVATION ____
GEOLOGIST ____ DRILLER ____ BIT NO. ____ BIT FOOTAGE ____
MOVE TO HOLE ____
DRILL ____
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				26.1 - 31.9 Layered Labradorean Till(?) and Related Sediments
22				26.1 - 26.5 till:- fine sand/silt matrix; pebbles & small cobbles
23				26.5 - 26.9 sand:- fine grained
24				26.9 - 27.5 till:- grey beige, unsorted fine sand & silt matrix; floating supported; cobbly; 55:45 vols/ sediments versus granitoid
25				
26				
27			01	27.5 - 28.4 sand: fine grained with minor granules; pebbly (till-like) at 28.2
28			02	28.4 - 28.5 clay/silt:- non-gritty; grey mottled
29				28.5 - 31.9 sand:- fine to medium grained with minor pebble laminae to 30m; fine grained sand below 30m
30			03	
31				
32				31.9 - 34.5m Bedrock:- basalt
33			04	green; grain size 0.2 - 0.3 mm; very friable and clay altered:- mesh ground to -10 mesh grit; relict volcanic texture preserved; primary mineralogy ~ 60:40 plag: mafic minerals; well foliated and lineated; minor quartz-calcite veining with bleached margins
34				- below 33m, fewer competent rock chips -- these are finer grained and more clay altered than material from 31.9 - 33m
35				
36				
37				
38				
39				
40				34.5m (115') EOH

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 8 19 97
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-374 LOCATION along Elvik Rd ELEVATION ____
GEOLOGIST K McNicol DRILLER R Legault BIT NO CB71307 BIT FOOTAGE 85-107.5
MOVE TO HOLE ____
DRILL 8:00 - 9:45
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				0-0.2 Organics
				0.2-16.2 Layered Reworked Till and Lake Agassiz Sediments
				till:- oxidized to ~2.5m; unoxidized grey below 2.5m; gritty clay matrix; sparse pebbles & granules; dominantly limestone and granules - less grit and pebbles downhole
				16.2-21.3 Labradorean Till and Related Sediments
				16.2-17.8 sand:- fine to medium grained; clasts present from 16.2-16.3m
				17.8-18.9 gravel:- medium to coarse sand matrix; matrix supported; pebbles & cobbles; 70:30 granitoids versus volcanics/sediments
				18.9-21.3 till:- grey-beige; unsorted fine sand and silt matrix; matrix supported; cobbly; 50:50 volcanics/sediments versus granitoids
17			01	
18			02	
19			03	

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 8 1997
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-97-374 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21			03 (continued)	
			04	
22			05	21.3 - 22.5 Bedrock: basalt dark green; fine grained; poorly foliated; chloritic; strongly magnetic (>5% magnetite); minor calcite veinlets; rock is moderately calcareous (8-10% calcite); faint trace of pyrite. below 22.3m, basalt is more strongly foliated (shear?) and is weakly to non-magnetic; and contains 2-4% qz-carbonate veinlets oxidized
23				
24				
25				
26				
27				
28				
29				22.5m (75') EOH
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
30				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 8 1997
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-97-375 LOCATION along Eluik Road ELEVATION _____
GEOLOGIST K MacNeil DRILLER R Legault BIT NO. C371307 BIT FOOTAGE 107.5-113.5
MOVE TO HOLE 9:45-10:00
DRILL 10:00-11:00
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20			01*	0–0.1 Organics 0.1–4.0 Keewatin Till oxidized, gritty clay matrix; sparse limestone and granitoid pebbles/granules 4–4.4 Labradorian Till 4–4.2 boulder:- fresh unaltered basalt 4.2–4.4 till:- oxidized, brown gritty clay matrix; pebbles
			02	4.4–6.0 Bedrock:- basalt dark green; fine grained (<0.1mm–); moderately foliated; chloritic; moderate calcite development (5% disseminated calcite); non-magnetic; no visible sulfides 6m (20') EOH

* Sample 01 - undersized, oxidized sample, including cuttings of boulder from 4.0–4.2m

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 8,9 1996
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-376 LOCATION ____ ELEVATION ____
GEOLOGIST K Mac Neil DRILLER R Legault BIT NO CB71307 BIT FOOTAGE 113.5
MOVE TO HOLE 11:00 - 2:30 (Fleet move)
DRILL 2:30 - 5:45
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER 5:45 - 6:30 Travel
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0 - 0.3 Organics
2				0.3 - 11.7 Layered Keewatin Till and Lake Agassiz Sediments
3				0.3 - 10.5 till:- grey gritty clay matrix; sparse pebbles and granules, mostly limestone
4				10.5 - 11.7 clay / silt:- varved grey clay & grey - beige silt
5				11.7 - Layered Labradorean Till and Related Sediments
6				11.7 - 13.4 till:- grey beige, unsorted fine sand and silt matrix. matrix supported; cobbly; 50:50 volcanics/sediments versus granitoids
7				- till becoming more matrix rich below 12.7 m
8				13.4 - 13.9 sand:- fine to medium grained
9				13.9 - 17.2 gravel:- variable matrix and clast supported; cobbly from 13.9 - 14.5, pebbly from 14.5 - 16 m, cobbly from 16 - 17.2 m; clasts 50:50 vols/ sedi versus granitoids
10				
11				
12				
13			01	
14			02	17.2 - 18.4 sand:- fine to medium grained, minor scattered pebbles
15				
16			03	18.4 - 22.1 till:- matrix supported by unsorted sand and silt; cobbly; 60% volcanics / Sediments, 40% granitoids; from 20.8 - 22.1, till contains common medium to coarse matrix sand and till appears sorted (water lain?)
17				
18			04	
19			05	
20			06	22.1 - 22.9 sand:- poorly sorted fine sand and minor pebbles

Feb 9
7:30 - 8:00 Travel
8:00 - 12:00 (Drill - 28.1 - 36 m)

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 8, 9 19 96
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-97-376 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21			06 (continued)	22.9 - 34.3 till :- matrix supported sand-silt till; cobble size clasts; 65% volcanics/ sediments, 35% granitoids; variably matrix : clast proportions to ~28m -- poorly sorted
22			07	
23				
24			08	
25			09	@ 28.9 m ~~intrusive~~ a pyritic (10%) sericite - biotite clast
26				
27			10	34.3 - 36 m Bedrock :- basalt (possibly andesite) medium grey green ; massive, fractured ; mottled appearance, possibly hyaloclastite ; fresh -- unaltered. minor hematite staining along fractures
28				
29			11	
30				
31			12	
32			13	36 m (120') EOH
33				
34			14	
35			15	
36				
37				
38				
39				
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 9 1997
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-377 LOCATION ____ ELEVATION ____
GEOLOGIST ____ DRILLER ____ BIT NO. ____ BIT FOOTAGE ____
MOVE TO HOLE ____
DRILL ____
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				30.7 - 31.9 – Labradorian Till and Sediments
22				30.7 - 30.9 till-like layer of pebbly sand; clasts of north-eastern provenance
23				30.9 - 31.7 sand: fine grained
24				31.7 - 31.9 till: grey-beige unsorted fine sand and silt matrix; cobbly; 70% volcanics/sediments, 30% granitoids
25				
26				
27				31.9 - 33 Bedrock: basalt medium green; fine grained to aphanitic; massive; fractured with minor bleaching marginal to fractures. unaltered; non-calcareous; non-magnetic; no visible sulfides; faint local trace of native Cu as lining
28				
29				
30				
31			01	
32			02	
33				33m (110') EOH
34				
35				
36				
37				
38				
39				
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 9 1997
SHIFT HOURS
____ TO ____
TOTAL HOURS
____
CONTRACT HOURS
____

HOLE NO RR-97-377 LOCATION ____ ELEVATION ____
GEOLOGIST K MacNeil DRILLER R Legault BIT NO. CB71273 BIT FOOTAGE 0-33
MOVE TO HOLE 12:00 - 12:15
DRILL 12:15 - 2:00
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

* New Bit and Sub #

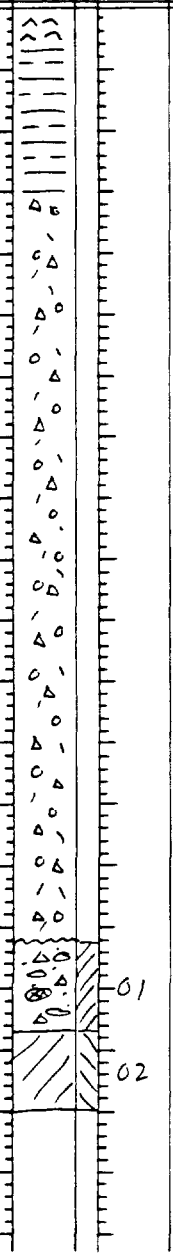
DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20				0 - 0.4 Organics 0.4 - 30.7 Layered Keewatin Till and Lake Agassiz Sediments 0.4 - 20.8 till:- grey gritty clay matrix; sparse pebbles and granules dominated by limestone & granitoids - remnants of clay-silt varves below 18 m 20.8 - ~22 m - clay/silt:- varved grey clay and grey-beige silt ~22 - ~24 clay interlayered with very fine silty sand grading to sand only down to 6 ~24 - 30.7 sand:- very fine grained to 25 m; fine grained below 25 m

limited recovery to ~4.5 m

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 9 1997
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-97-378 LOCATION _____ ELEVATION _____
GEOLOGIST K MacNeil DRILLER R Legault BIT NO. CB71273 BIT FOOTAGE 33-51
MOVE TO HOLE 2:00 - 2:15
DRILL 2:15 - 3:15
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20			01 02	0 – 0.5 Organics 0.5 – 15.3 Layered Recreation Tilland Lake Agassiz Sediments 0.5 – ~3 clay/silt:- grey; non-gritty ~3 – 15.3 till:- beige (weakly oxidized) grading to grey downhole; gritty clay matrix with sparse pebbles & granules 15.3 – 16.7 Labradorean Till grey-beige, arenaceous fine sand and silt matrix; matrix supported; cobbly; 70:30 volcanics/sediments versus granitoids 16 – 16.2 boulder - felsic intrusive or porphyry 16.7 – 18m Bedrock :- basalt (andesite ?) pale green; massive to poorly foliated; fractured; fresh - unaltered; appears finely plag. porphyritic but may be a coarse (0.2-0.4 mm) basalt; non-calcareous; non-magnetic; no visible sulfides; minor red hematite staining along fractures 18m (60') EOH

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 9 19 97
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR-97-375 LOCATION _____ ELEVATION _____
GEOLOGIST MacNeil DRILLER RLegault BIT NO. CB71273 BIT FOOTAGE 51-69.5
MOVE TO HOLE 3:15 - 3:30
DRILL 3:30 - 6:00
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER 6:00-6:45 Travel
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20			01	0 - 0.5 Organics
				0.5 - 8.5 Keewatin Till weakly oxidized, gritty clay matrix; sparse pebbles & granules, mostly limestone & granitoids
				8.5 - 17.5 Labradorean Till grey beige, unsorted fine sand and silt matrix / matrix supported; cobbly; 65:35 volcanics/sediments versus granitoids
				12.4 - 12.6 boulder :- foliated, hematite stained felsic intrusive
				13.4 - 14.0 pebbly sand :- unsorted fine to granular sand with minor pebbles
			02	14.0 - 17.5 till :- as from 8.5 - 13.4m, but becoming clast to clast supported below 16m
			03	17.1 - 17.5 - boulder :- granite gneiss
				17.5 - 18.5 Bedrock :- basalt white bull quartz vein @ 17.6m; basalt is medium green; massive; fractured; fresh, unaltered; non-calcareous, non-magnetic; no visible sulfides
			04	
			05	
			06	18.5m (62') EOH

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 10 1997
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

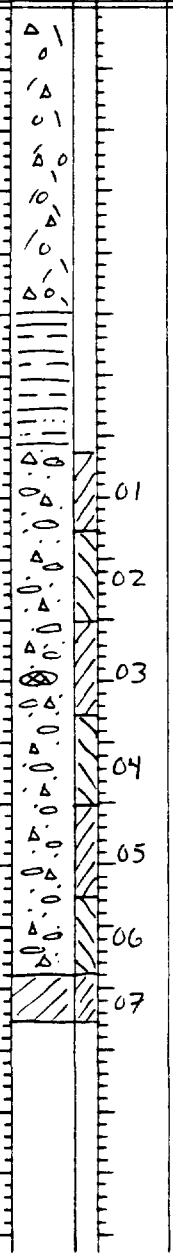
HOLE NO RR-97-386 LOCATION ____ ELEVATION ____
GEOLOGIST K MacNeil DRILLER R Legault BIT NO CB71273 BIT FOOTAGE 64.5-106
MOVE TO HOLE 8:15-8:45
DRILL 8:45-1:45
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER 7:30-8:15 Travel
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20				0 - ~3 Organics ~3 - 27.3 Layered Keewatin Till and Lake Agassiz Sediments ~3 - ~7 clay/silt:- varved grey clay and grey beige silt; minor silty sand ~7 - ~25 till:- grey beige gritty clay matrix; sparse pebbles and granules - mostly limestone and granitoids - downhole becomes dull grey with less gritand fewer pebbles ~25 - 27.3 clay/silt:- varved grey clay and grey beige silt; minor sand below 26.5m

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 10 1997
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-380 LOCATION ____ ELEVATION ____
GEOLOGIST ____ DRILLER ____ BIT NO ____ BIT FOOTAGE ____
MOVE TO HOLE ____
DRILL ____
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21–40			01 02 03 04 05 06 07	27.3 - 35.8 Labradorean Till matrix to clast supported; matrix of unsorted fine sand and silt. cobbly; 65:35 volcanics/sediments versus granitoids (metasediments prominent) 30.9 - 31.1 boulder:- tonalite several semi-massive pyrite pebbles from 32.5 - 34m 35 - 35.5 abundant sand (medium to coarse) in till 35.8 - 36.5 Bedrock:- siltstone grey black; fine grained; massive to poorly fissile -- lithic fabric; trace disseminated calcite; trace disseminated pyrite 36.5 ~ (122') EOH -- bit worn out, losing carbide buttons

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 10 1997
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-381 LOCATION ____ ELEVATION ____
GEOLOGIST K MacNeil DRILLER R Leggett BIT NO C1371271 BIT FOOTAGE 0-35.5
MOVE TO HOLE 1:45-2:00
DRILL 2:00 - 3:30
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

* New Bit

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0 - 3 Organics
2				~3 - 31.3 Layered Keewatin Till and Lake Agassiz Sediments
3				~3-~5 clay/silt :- varved shell grey clay and grey-beige silt
4				~5 - 28 till :- beige to grey gritty clay matrix; sparse pebbles and granules - mostly limestone and granitoids; dull grey, less grit and fewer pebbles with depth
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				28 - 31.3 clay/silt :- varved grey clay and grey-beige silt; no grit, pebbles

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 10 1997
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-97-381 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				31.3 - 33.7 Labradorean Till
22				grey - beige, unsorted fine sand and silt matrix; cobbly; 75 : 25 volcanics/ sediments versus granitoids
23				33.1 - 33.3 boulder :- tonalite
24				- till is clast supported below 33.3 m
25				
26				33.7 - 35.5 Bedrock :- greywacke / siltstone
27				bedded medium grey - green greywacke ad grey black siltstone
28				33.7 - 34.2 greywacke :- granular - sandy texture ; well foliated, faint trace disseminated pyrite
29				
30				34.2 - 34.4 siltstone :- very fine grained; fissile . minor silica rich (chert) laminae
31				
32			01	34.4 - 34.5 greywacke
33			02	34.5 - 35.5 siltstone :- trace of pyrite as foliation plane coatings
34			03	
35				
36				35.5 m (118') EOH
37				
38				
39				
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 10, 11 1997
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-382 LOCATION ~40m @ 265° from original S.G. ELEVATION ____
GEOLOGIST K MacNeil DRILLER R Legault BIT NO. CB71271 BIT FOOTAGE 35.5 - 60.0
MOVE TO HOLE 4:00 - 4:45
DRILL 4:45 - 6:00
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER 3:30 - 4:00 Clean mud tanks; 6:00 - 6:45 Travel
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20			01, 02	0 – ~2 Organics ~2 – 18.1 Layered Keewatin Tillard Lake Agassiz Sediments ~2 – ~4 clay/silt: - pale grey clay varved with beige silt ~4 – 18.1 till: - slightly gritty grey clay matrix; sparse granules and pebbles; less grit and fewer pebbles downhole 18.1 – 23.4 Labradorean Till matrix supported by beige-grey, unsorted sand and silt; cobbly; 75:25 volcanics/sediments versus granitoids – – dominantly meta-siltstone 18.3 – 18.5 boulder – – black siltstone 22.5 – 22.9 boulder – – black siltstone

Feb 11/97
7:30 – 8:00 Travel by truck
8:00 – 8:30 Travel by Mustang
8:30 – 11:00 Drill

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 10, 11 19 97
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

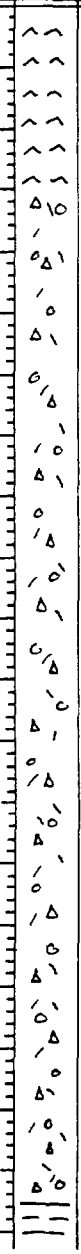
HOLE NO RR-97-382 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21			02 (continued)	
22			03	23.4 - 24.5 Bedrock :- greywacke pale grey; sandy texture; grain size 0.2-1.0 mm; composed of 80% sand -- plag, quartz, lithics; trace disseminated pyrite
23			04	
24			05	
25				24.5 m (80') EOH
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 11 1997
SHIFT HOURS
____ TO ____
TOTAL HOURS
____
CONTRACT HOURS
____

HOLE NO RR-97-383 LOCATION ____ ELEVATION ____
GEOLOGIST K MacNeil DRILLER R Legault BIT NO. CB71271 BIT FOOTAGE 60-85
MOVE TO HOLE 11:00 - 11:15
DRILL 11:15 - 12:30
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

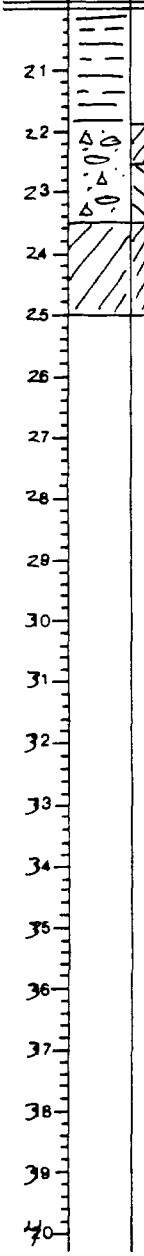
DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20				0 - ~3 Organics 3 - 21.9 Layered Keewatin Till and Lake Agassiz Sediments 3 - 19.5 till :- pale grey (black?) gritty clay matrix changing to dull grey by ~4.5m; sparse limestone and granitoid pebbles & granules 19.5 - 21.9 clay / silt :- mixed grey clay and grey - beige silt

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 11 1997
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-383 LOCATION ____ ELEVATION ____
GEOLOGIST ____ DRILLER ____ BIT NO. ____ BIT FOOTAGE ____
MOVE TO HOLE ____
DRILL ____
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21–40			01 02 03	21.9 - 23.5 Labradorean Till matrix supported by grey-beige, unsorted fine sand and silt matrix; cobbly; 75:25 volcanics/sediments versus granitoids 23.5 - 25 Bedrock:- siltstone/wacke dark grey; fine grained (<0.1 mm); massive to very poorly foliated; non-calcareous; weakly chloritic - biotitic 25m (83') EOH



OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 11 1997
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR-97-384 LOCATION _____ ELEVATION _____
GEOLOGIST K MacNeil DRILLER R Legault BIT NO. CB71271 BIT FOOTAGE 85-109
MOVE TO HOLE 12:30 - 12:45
DRILL 12:45 - 3:00
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20			01, 02	0 - 1 Organics 1 - 17.6 Layered Keewatin Till and Lake Agassiz Sediments 1 - ~2.5 clay :- grey-blue; non-gritty ~2.5 - 17.6 till :- beige (oxidized) to 4m; grey below 4m; gritty clay matrix; sparse limestone and granitoid pebbles and granules 17.6 - 22.9 Labradorean Till matrix supported by grey-beige, unsorted fine sand and silt matrix; cobbly; 55:45 volcanics/sediments versus granitoids; scattered pale grey silicified, weakly pyritic pebbles - below 21m, abundant metasedimentary clasts 22.1 - 22.3 boulder :- greywacke

Page 1 of 2

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 11 19 97
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-97-304 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21			03	22.9-24 Bedrock:- basalt dark grey to black; fine grained (<0.1 mm); moderately well foliated; plag. - chlorite ± hornblende mineralogy (possibly amphibolite); trace calcite as fracture plane coating
22			04	
23			05	
24			06	@ 23.8m - quartz calcite veinlet with minor pyrite
25				
26				24 - (80') EOH
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 11, 12 19 94
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR-97-385 LOCATION _____ ELEVATION _____
GEOLOGIST K MacNeil DRILLER R Lagacé BIT NO CB71271 BIT FOOTAGE 109-
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

(* Feb 12 - New Bit CB71275)

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	
1–20			01	0-0.5(?) Organics 0.5-19.2 Keewatin Till Till:- grey gritty clay matrix; sparse limestone and granitoid pebbles and granules; dull grey with less grit and pebbles downhole	limited recovery to ~4m Feb 12/97 7:30-8:15 To drill head 8:15-8:30 Mucking to drill 8:30-2:15 Drill (34.5-39-) * New bit CB 71275 @ 34.9m; replace water swivel at 34.5m (by passing pebbles)

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 11,12 1994
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-97-385 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21			01 (continued)	
22			02	19.2- Labradorean Till strong matrix supported; grey-beige; unsorted fine sand and silt matrix; 50:50 volcanics/sediments versus granitoids
23			03	19.5-19.8 boulder:- tonalite
24			04	20.9-21.1 boulder:- Fe-stained tonalite
25				@23.7m, small feldspar porphyry boulder with minor pyrite
26			05	@28.1m, pale grey, cataclastic-siliceous pebble with minor pyrite
27				35.5-35.6 boulder:- granite gneiss
28			06	
29				38- 39 Bedrock:- greywacke pale green grey; fine grained (0.1-0.2m); massive; non-calcareous; trace cubic pyrite
30			07	
31			08	
32				
33			09*	39m (130') EOH
34				
35			10	* Sample 09 -- recovery problems (by-pass) -- small sample
36				
37			11	
38			12	
39			13	
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 12 19 97
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-97-396 LOCATION _____ ELEVATION _____
GEOLOGIST K MacNeil DRILLER R Lapault BIT NO. CB71275 BIT FOOTAGE 4.1
MOVE TO HOLE 2:15 - 2:36
DRILL 2:36 - 5:45
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE 5:45-6:15

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20			01	0 - ~0.5 Organics ~0.5 - 19.5 Keewatin Till till:- grey-beige gritty clay matrix; sparse pebbles and granules - limestone and granitoids; till becomes dull grey with less grit and fewer pebbles downhole

0 - 4.5 No Return

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 12 1997 | HOLE NO RR-97-386 | LOCATION _____ | ELEVATION _____

GEOLOGIST _____ | DRILLER _____ | BIT NO. _____ | BIT FOOTAGE _____

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE _____

DRILL _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21			01 (continued)	
22				19.5 - 41.1 Labradorean Till
23			02	matrix supported; grey-beige unsorted fine sand and silt matrix; cobbly; 50:50 volcanics and sediments versus granitoids
24				26.1-26.3 boulder:- biotite gneiss
25			03	26.8-27.0 boulder:- cream colored sericitic dacite with blue qz eyes and 5% pyrite
26			04	31.6-32 sand:- fine to medium grained
27				- below 32 m, till is coarse biased and may be poorly sorted
28			05	36.7-37 boulder:- basalt with quartz-calcite vein
29			06	37.7-38.2 - poorly sorted sandy zone in till
30				39.2-39.5 - poorly sorted sandy zone in till
31			07	{ below 32 m, till is very sand rich with fewer cobbles than in underlying till; clasts ~ 40:60 volcanics/sediments versus granitoids
32			08	
33				
34			09	
35			10	
36				
37			11	
38			12	
39				
40			13	

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 12 1997
SHIFT HOURS
____ TO ____
TOTAL HOURS
____
CONTRACT HOURS
____

HOLE NO RR-97-386 LOCATION ____ ELEVATION ____
GEOLOGIST ____ DRILLER ____ BIT NO. ____ BIT FOOTAGE ____
MOVE TO HOLE ____
DRILL ____
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
41			13 (continued)	
			14	
42			15	
43				41.1 - 42.5 Bedrock: - greywacke / siltstone:- from 41.1 - 41.5 mostly sample ground to grey clay and fine grit
44				41.5 - 41.7 dark grey/black, fine grained; weakly pyritic
45				41.7 - 42.1 - sandy textured wacke with 15-20% pyrite as disseminations and possibly bands
6				42.1 - 42.5 wacke with <10% disseminated pyrite
7				
8				
9				
10				42.5m (142') EOH
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 13 1997
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-97-307 LOCATION _____ ELEVATION _____
GEOLOGIST K MacNeil DRILLER R Legault BIT NO. CB71275 BIT FOOTAGE 46.6-91.6
MOVE TO HOLE 8:00-9:45
DRILL 9:45-2:15
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER 2:15-8:00 Travel
MOVE TO NEXT HOLE _____

Replace head rod @ 43.5 m

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20				0-0.3 Organics 0.3-29.9 Keewatin Till oxidized beige to ~3m; unoxidized below 3m; dull grey slightly gritty clay matrix; sparse pebbles and granules - limestone and granitoids

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 13 1997
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-307 LOCATION ____ ELEVATION ____
GEOLOGIST ____ DRILLER ____ BIT NO. ____ BIT FOOTAGE ____
MOVE TO HOLE ____
DRILL ____
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				29.9 - 43.9 Layered Labradorean Till and Related Sediments
22				29.9 - 39.1 till:- matrix supported by grey-beige unsorted sand and silt; cobbly; 50:50 volcanics/sediments versus granitoids; few sheared clasts
23				31.2 - 31.4 boulder:- basalt
24				36.8 m -- small tonalite boulder
25				39.1 - 39.6 pebbly sand:- medium grained sand with rounded pebbles -- 20%(+) limestone
26				39.6 - ~40 sand:- very fine grained to silty
27				~40 - 43.6 silt/clay:- dominantly pale grey green silt, with minor clay varves
28				43.6 - 43.9 till:- clast supported; fine sand and silt matrix; cobbly; 90% well foliated (sheared?) endosite/basalt
29				
30				
31			01	
32			02	
33				
34			03	
35			04	
36				
37			05	
38			06	
39				
40			07	

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 13 19 97
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-387 LOCATION ____ ELEVATION ____
GEOLOGIST ____ DRILLER ____ BIT NO. ____ BIT FOOTAGE ____
MOVE TO HOLE ____
DRILL ____
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
41			07 (continued)	
42			N.S.	
43				43.9 - 45 Bedrock :- basalt dark green; grain size of 0.2 - 0.4 mm -- plag - chlorite mineralogy; partly weathered - carbonate free and minor oxidation spots; minor laminated / shear seams (1-2 mm wide, slickensides); minor amounts ground to green non-calcareous clay and grit
44			08	
45			09	45m. (150') EOH
46				
47				
48				
49				
50				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 13 1997
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR-97-38E LOCATION _____ ELEVATION _____
GEOLOGIST K MacNeill / A. Champagne DRILLER R. Legault BIT NO CB71272 BIT FOOTAGE 0-40.5
MOVE TO HOLE 2:15-2:30
DRILL 2:30 - 5:00
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER 5:00 - 5:30 Move; service; clean up; 5:30 - 6:30 Travel
MOVE TO NEXT HOLE _____

* New Bit and Sub *

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0 - 0.5 Organics
2				0.5 - 32 Layered Keewatin Till and Lake Agassiz Sediments
3				0.5 - 21.5 till:- oxidized beige to ~3m; unoxidized grey below 3m; gritty clay matrix; sparse pebbles and granules
4				21.5 - 21.8 pebbly gravel:- medium sand and pebbles; 50% limestone pebbles,
5				21.8 - 32 till:- grey clay till as from 0.5 - 21.5m
6				
7				
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11				
12				
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17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 13 1997
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-97-388 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21–41			01, 02, 03, 04, 05, 06	32 - 39.5 Layered Labradorean Till and Related Sediments 32 - 33.5 till:- grey-beige, unsorted fine sand and silt matrix; cobbly; 50:50 volcanics/sediments minor granitoids 32.8-33 boulder:- qz. veined volcanic 33.5-39 sand:- grey; fine grained; occasional silt/clay layer 39 - 39.5 till:- fine sand and silt matrix; cobbly 39.5 - 40.5 Bedrock: basalt(?) majority of sample ground to weakly oxidized beige, to green to grey-blue clay and grit; non-calcareous; competent chips are oxidized, foliated, friable and appear composed of altered plag and chlorite suggesting basalt protolith 40.5 (135') EOH

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 14 19 97
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-97-389 LOCATION _____ ELEVATION _____
GEOLOGIST K MacNeil DRILLER R Legault BIT NO. CB71272 BIT FOOTAGE 40.5-89
MOVE TO HOLE _____
DRILL 8:15-12:30
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER 7:30-8:00 Travel by truck; 8:00-8:15 Travel by Muskeg
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				0 - 0.5 Organics
				0.5 - 32.7 Layered Keewatin Till and Lake Agassiz Sediments
				0.5 - ~30.5 till:- oxidized to ~3m; gritty clay matrix; sparse pebbles and granules, dominantly limestone and granitoids. minor sandy lenses from 11 - 13.5m
				~30.5 - 32.7 silt/clay:- varved grey-green silt and minor clay; no grit, pebbles

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 14 1997
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-389 LOCATION ____ ELEVATION ____
GEOLOGIST ____ DRILLER ____ BIT NO. ____ BIT FOOTAGE ____
MOVE TO HOLE ____
DRILL ____
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				32.7 - 47 Layered Labradorean Till and Glaciolacustrine Sediments
22				32.7 - 36.2 till:- matrix supported by grey-beige, unsorted fine sand and silt; cobbly; 60:40 volcanics/sediments versus granitoids; very minor pale sheared sericitic clasts
23				
24				
25				- pebbly below 34.5 -
26				- 36.1 - 36.2 grey gritty matrix clay
27				36.2 - 37 silt:- grey beige; sticky; minor dark grey organic rich partings
28				37 - 38.1 sand:- very fine grained
29				38.1 - 39 silt layered with very fine sand
30				39 - 46.3 sand:- fine sand dominant; minor silty parting with minor organics
31				
32				46.3 - 41.5 sand with minor pebble layers (30% limestone) and organic rich silt partings
33				
34			01	41.5 - 44.2 sand:- dominantly fine sand -- minor medium grained sand
35			02 (undisrupted)	44.2 - 47 till:- grey-beige, unsorted fine sand and silt with minor gritty matrix clay; cobbly; 70:30 volcanics/sediments versus granitoids; pale grey green to beige gritty matrix clay (ground rock) from 45.2 - 46.4 -
36				
37				
38				
39				
40				@ 46.7 small tonalite boulder

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 14 1997
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR-97-389 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
41				47 - 48.5 Bedrock:- saprolite
42				47-47.6 majority of sample ground to pale grey-blue, non-calcareous kaolinitic clay
43				47.6-48.5 competent chips - grey blue, soft and clay altered; protolith appears very fine grained and finely foliated; trace siltst
44			03	
45			04	
46			05	
47				48.5 (162') EOH
48			06	
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 14 19 97

SHIFT HOURS
_____ TO _____

TOTAL HOURS
_____

CONTRACT HOURS
_____

HOLE NO RR-97-390 LOCATION _____ ELEVATION _____

GEOLOGIST K MacNeil DRILLER R Legault BIT NO CB71272 BIT FOOTAGE 89-146.5

MOVE TO HOLE 12:30 - 12:45

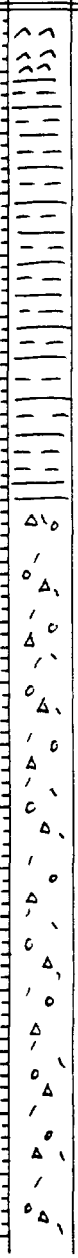
DRILL 12:45 - 6:00

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER 6:15 - 6:45 Travel

MOVE TO NEXT HOLE 6:00-6:15

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20				0-1.0 Organics, organic rich soil 1.0-25.9 Layered Recreation Till and Lake Agassiz Sediments 1.0- ~8 clay/silt:- varved grey clay and grey beige silt; poor recovery to 4.5m ~8-25.9 till:- grey gritty clay matrix; sparse limestone and granitoid pebbles and granules; dull grey with less grit and pebbles downhole

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 14 1997
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-97-390 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				25.9 - 56.8 Layered Labradorean Till and Glaciolacustrine Sediments
22				25.9 - 32.8 till:- initially grey green gritty matrix clay (groundmoraine) changing to fine sand and silt matrix by 26.3 m; cobbly; 60:40 volcanics/sediments versus granitoids
23				- below 28.5 m, mixed matrix of gritty clay and sand/silt
24				@ 30.1 - small granitoid boulder
25				- till is very cobbly with a sand/silt matrix below 30.1 m
26				32.4 - 32.7 - poorly sorted fine to medium sand matrix
27			01	
28			02	32.8 - 33.2 silt:- grey, sticky
29				33.2 - 34.3 till:- coarse biased sand matrix -- matrix supported; cobbly; 50:50 volcanics/sediments versus granitoids; minor sheared clasts
30			03	
31			04	34.3 - 34.5 sand:- poorly sorted fine to medium sand
32			05	34.5 - ~38 silt:- sticky grey and dark grey silt, minor very fine grained sand
33			06	
34				~38 - 46.5 sand:- fine grained sand dominant, minor medium sand and silt partings; minor wood chips below 39.8 m; local pebble laminae dominated by limestone (30-40%) and granitoid
35				
36				
37				
38				46.5 - 47.5 pebbly sand (gravel):- coarse to granular sand with 10-20% well-worn pebbles, (30% limestone, 40% granitoids, 30% volcanics/sediments)
39				
40				47.5 - 51.6 m - sand:- dominantly fine grained sand; pebbly sand from 49.5 - 49.7 m -- similar to that from 46.5 - 47.5 m

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 14 1997
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-390 LOCATION ____ ELEVATION ____
GEOLOGIST ____ DRILLER ____ BIT NO. ____ BIT FOOTAGE ____
MOVE TO HOLE ____
DRILL ____
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
41				51.6 - 56.8 Till: grey-beige, unsorted fine sand and silt matrix; cobbly; 50:50 volcanics/sediments versus granitoids.
42				
43				below 52.5m, 70% volcanics/sediments including common weathered, saprolitized clasts, and minor blue quartz
44				
45				54.5 - 55.2 beige grey gritty matrix clay (ground rock)
46				55.2 - 55.4 boulder: - tonalite
47				55.4 - 56.8 fine sand and silt matrix
48				
49				56.8 - 57.5m Bedrock: - basalt(?)
50			07	initial 0.2 m ground to beige clay and grit; competent chips are pale grey green, have a grain size of ~0.3mm and are finely foliated -- possibly sheared; rock is extensively clay altered but probably appears to have been feldspathic (60-70% plag, 30-40 chlorite) suggesting basalt or andesite; non-calcareous
51				
52			08	
53			09	
54				
55			10	
56			11	
57			12	57.5m (192') EOH
58				
59				
60				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 15 19 97
SHIFT HOURS
____ TO ____
TOTAL HOURS
____
CONTRACT HOURS
____

HOLE NO RR-97-391 LOCATION ____ ELEVATION ____
GEOLOGIST K MacNeil DRILLER R Legault BIT NO. CB71272 BIT FOOTAGE 146.5-193
MOVE TO HOLE ____
DRILL 8:15 - 11:45
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER 8:00 - 8:15 Replace cups in Beam pump
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20				0 - 0.3 Organics 0.3 - 21.1 Layered Keewatin Till and Lake Agassiz Sediments 0.3 - ~8 clay/silt: - oxidized beige to ~3m; below 3m, varved grey clay and grey-beige silt ~8 - 21.1 till: - grey-beige to grey gritty clay matrix; sparse limestone and granitoid pebbles and granules; dull grey with less grit and fewer pebbles downhole

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 15 1997
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-391 LOCATION ____ ELEVATION ____
GEOLOGIST ____ DRILLER ____ BIT NO. ____ BIT FOOTAGE ____
MOVE TO HOLE ____
DRILL ____
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				21.1 - 45.4 Layered Labradorean Tillaid Glaciolacustrine Sediments
22			01	21.1 - 23.2 till:- grey-beige, unsorted fine sand and silt matrix (gritty matrix clay in initial 0.1m); cobbly; 50:50 volcanics/sediments versus granitoids
23			02	- 21.6 - 22.5 minor gritty matrix clay
24				- below 22.5, till is grey matrix sand rich
25			03	
26				23.2 - 28.1 sand:- fine to medium grained; poorly sorted; minor granules
27			04	28.1 - 28.3 grey green gritty clay, fine sand, pebbles
28				28.3 - ~38 sand:- fine grained sand dominant with minor medium grained sand; minor grey-blue silt partings below 33.5m
29				
30				
31				~38 - 41 sand:- fine grained
32				41 - 42.5 silt/clay:- varved grey beige silt and pale grey clay
33				42.5 - 44.5 sand:- fine grained; silt/clay laminae present below 43m
34			N.S.	
35				44.5 - 45.4 till:- grey beige, unsorted fine sand and silt matrix/matrix supported; cobbly; 70:30 volcanics/ sediments versus granitoids
36				
37				
38				
39				
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 15 1997
SHIFT HOURS
____ TO ____
TOTAL HOURS
____
CONTRACT HOURS
____

HOLE NO RR-97-391 LOCATION ____ ELEVATION ____
GEOLOGIST ____ DRILLER ____ BIT NO. ____ BIT FOOTAGE ____
MOVE TO HOLE ____
DRILL ____
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
41				
42			N.S.	
43				
44				
45			05	45.4 - 46.5 Bedrock: basalt initial 0.2 m ground to green brown clay; competent chips below 45.6 m are green-brown, weathered and clay altered; finely foliated (sheared?); original mineralogy appears to be plag - chlorite; grain size of 0.1 - 0.3 mm -- may be weakly plag. porphyritic
46			06	
47				46.5 m (155') EOH
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 15 1992
SHIFT HOURS
____ TO ____
TOTAL HOURS
____
CONTRACT HOURS
____

HOLE NO RR-97-392 LOCATION ____ ELEVATION ____
GEOLOGIST K MacNeil DRILLER R Legault BIT NO. CB71272 BIT FOOTAGE 193-205.5
MOVE TO HOLE 11:45 - 12:00
DRILL 12:00 - 1:30
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

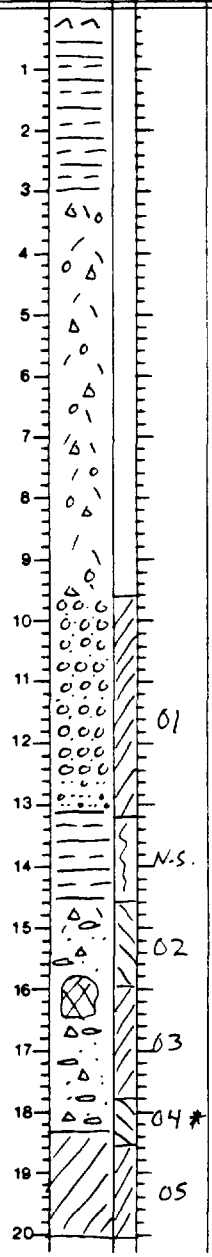
DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20				0 - 0.3 Organics 0.3 - 10.2 Layered Keewatin Till and Lake Agassiz Sediments 0.3 - ~6.5 clay/silt:- beige (oxidized) with slight grit to ~2m; unoxidized uniform grey clay and grey-beige silt below 2m ~6.5 - 10.2 till:- dull grey slightly gritty clay matrix; sparse limestone and granitoid pebbles & granules 10.2 - 10.8 Labradorean Till grey to grey green gritty matrix clay; pebbles & cobbles; small granodiorite (gneiss) boulder @ 10.3 m 10.8 - 12.5 Bedrock:- Felsic volcanic (rhyolite) pale grey green; aphanitic; massive; conchoidal fracture. hard - siliceous; moderately calcareous; 0.5% pyrite - pyrrhotite veining fractures. faint grey and grey-green color banding 12.5m (42') EOH O/C ~100m W. along road for Hole 292 -- intermediate tuff (sampled)
10			01 *	
12			02	

* Sample 01 - undersized

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 15 1997
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-393 LOCATION ____ ELEVATION ____
GEOLOGIST K MacNeil DRILLER R Legault BIT NO. CB71272 BIT FOOTAGE 209.5-229.5
MOVE TO HOLE 1:30-1:45
DRILL 1:45-3:36
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20			01, N.S., 02, 03, 04*, 05	0-0.3 Organics 0.3-14.6 Layered Keewatin Till and Lake Agassiz Sediments 0.3-~3 clay/silt:- varved grey clay and grey beige silt ~3-9.6 till:- grey-beige, gritty clay matrix; sparse pebbles and granules, mostly limestone and granitoids 9.6-13.1 gravel:- coarse sand and granule matrix (matrix supported); pebbly; 60% limestone, 25% granitoids, 15% volcanics/sediments - below 12.5m, poorly sorted limestone rich fine to granular sand with minor pebbles 13.1-14.6 clay/silt:- varved grey clay and grey-beige silt 14.6-18.3 Labradorean Till pale blue grey gritty matrix clay to 14.9m (ground rock); below 14.9, consolidated fine sand and silt matrix; cobbly; 60:40 volcanics/sediments versus granitoids (partly weathered clasts common) @ 15.3m intersect a small grano-diorite boulder. 15.8-16.5 boulder:- pale grey-blue saprolite (kaolinite) 18.3-20 Bedrock:- feldspar±qz porphyry 18.3-19 most of sample ground to ~10 mesh grit except for minor sub- to euhedral feldspar crystals to 3mm; 19-20 competent chips; white; med. grained (0.5mm); quartzo-feldspathic with indistinct plag (±qz) phenocrysts to 2mm; ~10-15% patchy chlorite; non-calcareous; trace pyrite

* Sample 04 - undersized

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 15, 16 19 97
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-97-394 LOCATION _____ ELEVATION _____
GEOLOGIST K MacNeil DRILLER R Lagault BIT NO CB71272 BIT FOOTAGE 229.5 - 261
MOVE TO HOLE 3:30 - 3:45
DRILL 3:45 - 6:06
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20				0 - 0.5 Organics / soil 0.5 - 25.7 Layered Keewatin Till and Lake Agassiz Sediments 0.5 - ~6.5 clay / silt:- varved grey clay and grey beige silt; minor fine grained sand partings ~6.5 - 25.7 till:- grey gritty clay matrix; sparse pebbles and granules, mostly limestone and granitoids; dull grey in color with less grit and fewer pebbles downhole

poor recovery to ~ 4.5m -- possibly some Keewatin till

Feb 16 '97
7:30 - 8:00 Travel
8:00 - 10:45 Drill (29.8 - 31.5 -)

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 15, 16 1997
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-394 LOCATION ____ ELEVATION ____
GEOLOGIST ____ DRILLER ____ BIT NO. ____ BIT FOOTAGE ____
MOVE TO HOLE ____
DRILL ____
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				25.7 - 29.8 Labradorean Till
22				matrix supported by grey-beige, unsorted fine sand and silt matrix; cobbly; 65:35 volcanics/sediments versus granitoids; common sheared clasts (sericitic; chloritic; strongly foliated)
23				25.9-26.2 boulder:- granitoid
24				27.3-27.5 boulder:- tonalite
25				- below 27.9m, clast supported with abundant dark to medium green basaltic clasts
26			01	28.4-28.7 boulder--andesite (fresh, little altered)
27				
28			02	29.8 - 31.5 Bedrock:- saprolite (basalt?)
29			03	majority of sample ground to pale green (local brown oxidation) clay and grit; non-calcareous; very minor "competent" chips of dark brown-green, friable, clay-altered, fine grained rock
30				- below 30.7m -- oxidized brown clay
31			04	
32				31.5 (105') EOH
33				
34				
35				
36				
37				
38				
39				
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 16 19__
SHIFT HOURS
____ TO ____
TOTAL HOURS
____
CONTRACT HOURS
____

HOLE NO RR-97-395 LOCATION _____ ELEVATION _____
GEOLOGIST K MacNeil DRILLER R Legault BIT NO CB71278 BIT FOOTAGE 0-33.0
MOVE TO HOLE 10:45 - 11:00
DRILL 11:00 - 1:00
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

* New Bit

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0 - 0.5 Organics
2				0.5 - 30.8 Layered Keewatin Till and Lake Agassiz Sediments
3				0.5 - ~9 clay/silt: slight grit initially (fine sand layers to ~2 m); varved grey clay and grey beige silt
4				~9 - ~27.5 till:- grey-beige, gritty clay matrix; sparse limestone and granitoid pebbles and granules - dull grey with less grit and fewer pebbles downhole
5				- 22.4 - 24.5 minor sand seams present
6				
7				
8				
9				~27.5 - 30.8 clay/silt:- varved grey clay and grey-beige silt
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 16 1997
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-97-395 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				30.8 - 33.0 Bedrock :- saprolite (andesite?)
22				30.8 - 31.3 mostly sample ground to pale blue kaolinitic clay
23				
24				31.3 - 33 competent chips more abundant but most of sample ground to -10 mesh sand/grit; competent chips are finely foliated and clay altered; protolith appears feldspathic with 10-15% dark relict chlorite; minor surviving plag and a few quartz phenocrysts
25				
26				
27				
28				
29				
30				33m (110') EOH
31				
32			01	
33				
34				
35				
36				
37				
38				
39				
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 16 1997
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-396 LOCATION ____ ELEVATION ____
GEOLOGIST K MacNeil / A. Chapman DRILLER R Legault BIT NO. CB71278 BIT FOOTAGE 33.0-62.5
MOVE TO HOLE 1:00-1:15
DRILL 1:15-3:00
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE 3:00 - Langmuir & pick up point (Float)

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				0-1.5 Organics
				1.5-28.9 Layered Keewatin Till and Lake Agassiz Sediments
				1.5-9.0 clay/silt:- varved grey clay & grey-beige silt, minor grit near surface
				9.0-18.0 till:- dull grey gritty clay matrix; sparse pebbles and granules, mostly limestone and granitoid
				18-19 sand:- beige, limestone rich sand
				19-20 clay till (as from 9.0-18m)
				20-24.5 sand:- poorly sorted fine to coarse sand; beige; limestone rich
				24.5-28.9 clay till (as from 9.0-18m and 19-20m)

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 14 1997
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-97-396 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				28.9 - 33.9 Labradorian Till mixed fine sand-silt and grithy clay matrix; cobbly; clasts comprise 60% vols/ sediments, 20% granitoids
22				
23				
24				29.8-30.1 boulder:- andesite (carbonatized)
25				30.6 - 30.9 boulder :- granitoid
26				
27				33.9 - 34.5 Bedrock:- saprolite essentially all ground to pale blue clay; non-calcareous
28				
29				
30			01	34.5 (115') EOH
31				
32			02	
33				
34			03	
35				
36				
37				
38				
39				
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 17 1997
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-397 LOCATION ____ ELEVATION ____
GEOLOGIST K MacNeil DRILLER R Legault BIT NO. CB71278 BIT FOOTAGE 67.5-102.0
MOVE TO HOLE 8:00-9:30 (complete move began Feb 16)
DRILL 9:30-11:30
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				0-1.5 Organics and organic rich soil
				1.5-29.5 Layered Keewatin Till and Lake Agassiz Sediments
				1.5-~6 clay/silt:- varved grey clay and grey-beige silt, minor grit + pebbles initially
				~6-29.0 till:- grey, slightly gritty clay matrix, sparse pebbles and granules, mostly limestone and granite
				29.0-29.5 sand:- fine grained; grey in color

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 17 1997
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-97-397 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				29.5 - 32.9 Layered Labradorean Till and Related Sediments
22				29.5 - 30.1 till:- grey-beige, unsorted fine sand and silt matrix -- appears sorted with common medium to coarse sand; cobbly; 60:40 volcanics / sediments versus granitoids -- common sheared clasts
23				
24				
25				30.1 - 31.5 gravel:- medium to coarse sand matrix; pebbly; similar clast comparison as overlying till
26				
27				
28				31.5 - 32.9 till:- fine sand and silt matrix; matrix supported to 32 m, clast supported below 32m; 90% volcanic / sedimentary clasts (abundant sheared volcanics)
29				
30			01	
31			02	32.9 - 34.5 Bedrock:- basalt(?) - sheared pale grey-green with red-brown oxidation spots and oxidized along foliation planes; strong shear fabric; fine grained but appears coarser due to shear dismembering; felsophyric and may be locally plag. porphyritic; non-calcareous; no sulfides
32			03	
33				
34			04	
35				
36				
37				
38				34.5m (115') EOH
39				
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 17 1997
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-398 LOCATION ____ ELEVATION ____
GEOLOGIST K MacNeil DRILLER R Legault BIT NO. C871278 BIT FOOTAGE 102-141.5
MOVE TO HOLE 11:30 - 11:45
DRILL 1:00 - 5:00
MECHANICAL DOWN TIME 11:45-1:00 Replace U-joint
DRILLING PROBLEMS ____
OTHER 5:00 -
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0-1 Organics
2				1-29.6 Layered Keewatin Till and Lake Agassiz Sediments
3				1-5.5 clay/silt:- varved grey clay and grey-beige silt, minor fine sand to 2.5m
4				5.5-~26 till:- dull grey gritty clay matrix; sparse pebbles and granules, mostly limestone and granite.
5				
6				
7				~26-29.6 clay/silt:- varved grey clay and grey-beige silt
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 17 1997
SHIFT HOURS
____ TO ____
TOTAL HOURS
____
CONTRACT HOURS
____

HOLE NO RR-97-398 LOCATION ____ ELEVATION ____
GEOLOGIST ____ DRILLER ____ BIT NO. ____ BIT FOOTAGE ____
MOVE TO HOLE ____
DRILL ____
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				29.6 - 36.1 Labradorian Till matrix supported by grey-beige, unsorted fine sand & silt; cobbly; 80:20 volcanics/ sediments versus granitoids; (volcanics dominated by sheared chloritic to sericitic clasts, often with pyrite)
22				
23				
24				
25				
26				36.1 - 39.5 Bedrock: intermediate volcanic
27				common overburden contamination to ~37.5m, and much of this part of sample is ground to beige to pale blue clay and -10 mesh grit; competent chips are strongly sheared and schistose; pale blue-green to beige (oxidized); fine grained; chloritic to sericitic with sericite becoming more prominent downhole; shearing imparts a rubbly tuff-like appearance; rock appears feldspathic with rare quartz phenocrysts; non-calcareous; no visible sulfides
28				
29				
30			01	
31				
32			02	
33				
34			03	
35				
36			04	39.5 (1321') EOH
37			05(*)	
38				
39			06	* Sample 05 - common overburden contamination; to be processed as overburden
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 18/02 19 97
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR-97-399 LOCATION _____ ELEVATION _____
GEOLOGIST Ansell DRILLER Leguerrier BIT NO. CB71278 BIT FOOTAGE 141.5 - 269.5
MOVE TO HOLE 7:45-8:00
DRILL 8:00 - 10:45
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE 10:45 - 11:15 roll matting, water, plugged

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0 - 0.2 Organics.
2				0.2 - 4.0 Lake Agassiz Sediments clay: smooth, massive clay oxidized beige grading to platy grey by 2.6, slight silty component
3				
4				4.0 - 5.4 Layered Lake Agassiz Sediments and Keewatin Till
5				
6				4.0 - 5.0 clay till: unsorted v. gritty grey clay-rich matrix with 5% limestone and sandstone pebbles.
7				5.0 - 5.6 clay as above
8				5.6 - 6.6 till as above
9				6.6 - 7.0 clay as above but increased silt gives clay a brown cast.
10				
11				7.0 - 19.5 till: as above but pebbles decreased to <1%, grit is sparse occasional clay seams - may be till with v. sparse grit.
12				
13				
14				
15				19.5 - 21.0 silt-clay: occasional grit + pebbles; very soft
16				
17				21 - 29.0 clay till: as above
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19__
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR-97399 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

pg 2 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21	/ A			29.0 - 32.0 ~~clay till~~: matrix
22	/ \			becomes grey with depth
23	/ \			and clay non-calcareous
24	/ \			indicating some local
25	/ \			component. Matrix still clay-
26	/ \			rich and pebbles still limestone
27	/ \			and sandstone, some grit
28	/ \			32.0 - 32.8 Lake Agassiz Sediments
29	/ \			silt, sand well sorted grey
30	/ \			silt - fine sand with minor
31	/ \			pebbles; below 32.6 trace of
32	/ \			rounded basalt pebbles
33	/ \			32.8 - 36.6 Labradorean Till
34	/ \		01	32.8: unsorted grey to grey brn
35	/ \		02	silt - fine sand matrix supporting
36	/ \		03	a few volcanic clasts.
37	/ \		04	Exact upper contact unclear -
38	/ \			overlying sand grades into till
39	EOH 128'			with good matrix by 33.0
20				clast composition initially 60%
				volcanics + 40% subrounded
				granitoids changing to variable
				& >90% sheared volcanics by 34.1
				initially matrix supported
				becoming cobble clast supported by 35.8
				cobbles are sheared and ~~ancient~~ mafic
				volcanic cobbles. Some striae
				on slip planes; coarse pyrite throughout
				35.8 black clay lumps; minor matrix
				below; sample undersize washed down.
				36.6 - 38.0 Bedrock
				light green sheared basalt (?)
				barren quartz vein at 16.9
				- fine grained groundmass; foliated, lineated
				- clots of chloritized mafics, some fsp phenos.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 18/2 1997

SHIFT HOURS
_____ TO _____

TOTAL HOURS
_____

CONTRACT HOURS
_____

HOLE NO RR-97-400 LOCATION _____ ELEVATION _____
GEOLOGIST Averill DRILLER Legault BIT NO CB 71278 BIT FOOTAGE 269.5-367.5
MOVE TO HOLE 10:45-11:15 stop & clean mud tank
DRILL 11:15-12:45
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE 12:45-1:10 repair oil leak

pg. 1 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20				0-0.2 Organics: alder swamp along river 0.2-25.4 Layered Lake Agassiz Beds & Keewatin till. 0.2-0.9: clay: smooth massive clay, no grit, no pebbles; oxidized beige 0.9-17.9: clay till: unsorted gritty clay-rich matrix oxidized beige grading downhole to dark grey by 2.4; pebbles initially 3% decreasing downhole to <1% by 5.7m. grit composition 30/30/40: volcanics, sed/granite/limestone. Occasional massive grey clay seams with no grit or pebbles. 17.9-19.1 sand: well sorted fine and medium grained beige sand with occasional grey clay seams, minor pebbles. 19.1-20.8 clay as above 20.8-24.6 clay till as above with green cast appearing by 24.2 24.6-25.4 sand well sorted fine gray sand. silt no pebbles

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19 __
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR-97-400 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				25.4-27.1 Labradorean Till
22				unsorted silt + fine sand grey
23				matrix; initially matrix
24				supported becoming cobble
25				clast supported by 26.2
26			01	clast composition changes
27				from 80/20 : volcanics/granites
28			02	to >90% volcanics by
29			03	26.2
30	EOH 98'		(trial only)	27.1-29.3 Bedrock
31				medium grey, sheared basalt
32				fine grained, granular groundmass
33				with clots of chloritized mafics
34				and some feldspar phenocrysts
35				- foliated and lineated, some
16				cumulations
17				- sericite on slip planes
18				- iron staining at 27.7 grades
19				into highly altered clayey
20				return (mostly finer than
				10 mesh probably due to
				increased shearing.
				28.9-29.1 barren Quartz vein
				sampled as 460-030
				29.3 EOH

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 18/2 1997
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-401 LOCATION ____ ELEVATION ____
GEOLOGIST Ansell DRILLER Legault BIT NO CB71278 BIT FOOTAGE 367.5-477
MOVE TO HOLE 12:45 - 1:00
DRILL 1:30 - 4:45
MECHANICAL DOWN TIME 1:00 - 1:30 repair oil leak
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE 4:45 - 5:00 hole making water plugged

pg 1 of

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				0-0.2 Organics
1				0.2-20.2 Keewatin Till with minor Lake Agassiz Sediments
2				gritty clay - mid matrix,
3				oxidized beige grading downhole
4				to grey by 2.4
5				1% limestone pebbles decreasing
6				to sparse pebbles and grit
7				by 7.2 m; occasional beige
8				well sorted sand seams and
9				smooth, massive clay layers
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19__
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-97-401 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

pg 2 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21			01	20.2 - 22.1 Labradorean Till unsorted silt + fine sand matrix, grey, a few subrounded pebbles and cobble clasts of composition 50/50: volcanics/granitoids. matrix supported, may be slightly reworked till but grades into good till matrix by 21.3
22				
23			02	
24				
25				
26			03	22.1 - 25.1 Lake Agassiz - glaciofluvial sediments
27			04	22.1 - 22.6 well sorted gravel, no matrix 50/50: volcanics/granitoids
28			05	22.6 - 25.1 moderately sorted silt and fine sand with minor pebble zones.
29			N/S	
30			06	25.1 - 31.0 Labradorean Till unsorted grey-beige silt + fine sand matrix clasts 60/40: volc/gran. clasts very oxidized for first 0.5m. matrix supported, abundant stones increasingly cobbly below 26.7
31				27.0: sheared basalt and granite cobbles magnetite and brick red fragments matrix increasingly oxidized by 27.9 near cobble supported by 28.1 returning to matrix supported by 28.2
32			07	29.0 - 30.0 sheared basalt boulder
33	EOH 33.0m 110'			30.0 - 31.0: matrix deficient grey silt - fine sand when present; cobbles 80/20: volc/gran. some pyrite. base of section near matrix supported
34				31.0 - 33.0 Bedrock: light green sheared basalt - fine grained granular groundmass with fsp phenocrysts + chloritized mafics - trace disseminated pyrite
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 19/2 19 97 | HOLE NO RR-97-402 | LOCATION _____ | ELEVATION _____

GEOLOGIST Ansell | DRILLER Legault | BIT NO 71278 | BIT FOOTAGE 4935-555

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE 8:00 -9:00

DRILL 9:00 - 12:30

MECHANICAL DOWN TIME Changed swivel

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE 12:30 - 1:00 hole making water plugs

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				0-1.1 Organics: peat
1				1.1-3.5 Lake Agassiz Sediments clay: smooth massive clay, no grit or pebbles oxided beige grading to slate grey by 1.8m
2				
3				
4				3.5-14.1 Kaynes Labradorian Till and Lake Agassiz
5				3.5-8.9 clay till: unsorted grey, clay-rich matrix with <1% ls pebbles, sparse grit with short interval between 5.0+6.0m of abundant grit. Minor glaciolacustrine silty clay seams
6				
7				
8				
8.9				8.9-9.6 sand: well sorted beige fine to medium sand with pebble seams
9				
9.6				9.6-11.6 clay till as above
10				
11				11.6-14.1 clay silt: smooth grey clay with beige silt and a few ice rafted pebbles probable seams
12				
13				
14				14.1-22.1 Labradorian Till unsorted grey beige silty fine sand matrix near clast supported, cobbly composition 60% volcanics / 40% granitoids some sheared cobble cuttings thin, well sorted fine sand seam at 14.7. Till becomes clast supported below 15.3 and very cobbly. Volcanic component has increased to 90% matrix is very deficient some rhyolite with pyrite
15			01	
16			02	
17			03	
18				
19			04	
20			05	17.8 composition again 60/40 near matrix supported, wide

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 19/2 1997 HOLE NO RR-97-402 LOCATION _____ ELEVATION _____
GEOLOGIST Ansell DRILLER Legault BIT NO CB71278 BIT FOOTAGE _____
SHIFT HOURS _____ TO _____ MOVE TO HOLE _____
TOTAL HOURS _____ DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
CONTRACT HOURS _____ OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21			05 cont'd	gradual increase in sheared volcanics + decrease in granitoid pebbles to 80/20 by 20 m. Rod withdrawn from 20.0 to 19.5 m to change swivel. Sample biased toward top half to compensate.
			06	
22			NS	
			06	
23			07	Becomes matrix deficient below 20.9 "matrix" mostly cobble cuttings
24				20.8 basalt boulder
			EOH 78'	below 20.8 matrix grey green silt + fine sand, some sheared intermediate volcanics w/ hematite staining
5				21.4-21.8 : tonalite boulder
				21.8-22.1 : very cobbly till, little material matrix.
13				22.1-23.6 Bedrock
				- medium green sheared basalt (?)
				- granulated
				- lineated, foliated
				- sulphides, minor sericite on shear planes
				- tourmaline
				- some chloritized mafics
				- stretched feldspars - may be plag phyric
				- Quartz + calcite as pervasive veinlets and fracture fillings.
				23.6 EOH

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 19/07 1987
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR-97-403 LOCATION _____ ELEVATION _____
GEOLOGIST Ansell DRILLER Lysault BIT NO. C87/278 BIT FOOTAGE 555-660.5
MOVE TO HOLE 12:30 - 1:00
DRILL 1:00 - 3:00
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE 300 - 3:30

pg 1 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0-1.3 Organics: peat
2				1.3-6.6 Lake Iroquois Sediments (LIS) clay: massive brown-grey clay, no grit or pebbles
3				6.6-24.9 Newbatin Till + LIS
4				unsorted, grey clay rich matrix with minor grit + <1% limestone pebbles.
5				with increased grit between 7.5 + 8.0
6				8.12m: poor return: soft brown grey clayey matrix minor grit.
7	10			12.0-17.5 clay till as above
8				17.5-17.6 sandy till thin seam of unsorted grey silt & fine sand matrix with volcanic clasts.
9				17.6-18.1 clay till as above
10	A			18.1-19.9 varved clay
11				19.9-24.9 clay till as above with gritty matrix and 1% to pebbles and interbedded glaciolacustrine clay seams below 22.6
12				
13	0			
14				
15				
16	A			
17				
18	10			
19				
20	10			

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19 __
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR-97-403 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

2 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				24.9 Glaciolacustrine Sand
22				- 27.8 sand silt : well sorted
23				beige sand and fine silt
24				27.1 - 30.5 Labradorean Till
25				unsorted grey beige silt +
26				fine sand matrix - matrix
27				to near clast supported.
28			01	composition 60/40 : volcanic
29			02	to granitoids, colour
30			03	28.6 - 30.2 sheared effects,
31			04	abundant supply.
32	EOH 105'			30.2 - 30.5 cobble clast
33				supported, little natural
14				matrix.
15				30.5 - 31.5 Bedrock
16				medium green basalt
17				- fine grained, interlocking
18				granular
19				- weak foliation
20				- magnetite, copy or cc
				- slightly sheared - fracture +
				hematite
				on some planes.
				- mafics altered to chlorite
				- very hard, slow drilling
				bit breaking up, poor
				return by 31.5 - ended
				hole after only 1.0m of
				bedrock.
				31.5 EOH

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 9-20/02 1997
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-404 LOCATION ____ ELEVATION ____
GEOLOGIST Arnell DRILLER Leguult BIT NO CB71266 BIT FOOTAGE 0-135
MOVE TO HOLE 3:00 - 3:30
DRILL 3:30 - 5:30, 8:30 - 1:30 ; repair leaking water line
MECHANICAL DOWN TIME line plugged
DRILLING PROBLEMS rods plugged with sand, pulled + redrilled twice
OTHER ____
MOVE TO NEXT HOLE 3:00 - 3:15

New bit + sub pg 1 of 3

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0-0.9 Organics
2				0.9-28.9 Lowered Lake Agassiz Sediments and Quaternary Till
3				0.9-1.3 clay massive smooth grey clay, no grit or pebbles
4				1.3-3.8: clay till: oxidized brown clay-rich matrix grit and till abundance variable
5				3.8-7.4: clay: as above
6				7.4-28.9: clay till as above with grey clay-rich matrix and <1% pebbly, sparse grit with clay seam at 27.2
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19 __
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR-97-404 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

pg 2 of 3

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21	A			28.9- Labradorean Till and Glaciofluvial Sediments
22				28.9-31.92 till and sand:
23	O			till: unsorted grey beige silt and fine sand matrix
24				clast composition 50/50: volc/
25	A			granites; matrix supported
26				interbedded with
27				well sorted silt and grey beige sand with
28	O			pebble seams
29	A			31.9-36.4: Glaciofluvial Sed:
30			01	31.9-34.8: sand: moderately
31				sorted medium to coarse
32			02	grained sand with fine
33				silty layers, little +10'
34				abundant granules, gravelly seams.
35			03	50/50 volcanics & granites
36				a few sheared volcanics
37			N/S	34.8-36.4 silt fine grey
38			04	beige silt
39			05 N/S	36.4- Labradorean Till
40			06	36.4-37.2 boulder: slightly
				sheared green basalt
				37.2- till: unsorted grey
				beige fine silt & fine sand
				matrix 50/50 volcanic
				and granitic cobbles little
				matrix, may be drilling effect
				below 37.7 composition changes
				to 90/10: volcanics & granite
				38.6-38.7: unsheared basalt boulder
				38.7-38.9: cobble like return
				matrix present but deficient

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

RR-97

DATE _____ 19__
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO 404 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

pg 3 of 3

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
	///		C7	may be shattering along inclined bedrock.
1				3E.9-40.5 Bedrock - 10% overburden contam.
2				medium green unsheared basalt
3				- interlocking granular fine grained plagioclase mass & plag and chlorite with
4				1-2mm phenocrysts of pyroxene and plag.
5				- unfoliated
6				- minor quartz veinlets with
7				trace disseminated pyrite
8				- plag. phyric, epidote alteration
9				- minor calcite alteration
10				- unquenched
11				- unaltered
12				40.5 EOH 135'
13				
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 20/2 19 97
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR-97-405 LOCATION _____ ELEVATION _____
GEOLOGIST Arnell DRILLER Legault BIT NO 7/266 BIT FOOTAGE 135 - 216
MOVE TO HOLE 1:30 - 2:00
DRILL 2:00 - 3:00
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE 3:00 - 3:15

Pg 1 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0-0.9 Organics: peat
2				0.9-5.8 Lake Agassiz Sediments
3				0.9-2.2 clay: smooth, massive grey clay, tr grit or pebbles
4				2.2-2.9 silt: well-sorted fine silt with minor clay, stoney
5				2.9-5.8 clay: as above
6	C			5.8-21.4 Keewatin Till
7				clay till: gritty grey clay-rich matrix, ≤ 1% pebbles, grit abundance decreases down hole
8	Δ			
9				
10				
11				
12	Δ			
13				
14				
15				
16	Δ			
17				
18				
19				
20	Δ			

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19__
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR-97-405 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				21.4-22.4 Labradorian Till- unsorted grey-beige silt + fine sand matrix - matrix supported; cobbly; clast composition 80/20 volcanics/ granitoids. matrix grey by 22.1
22			01	
23			02	
24	EOH			22.4 - 23.9 Bedrock first 5cm: dacon quartz in dark green basalt - dark green weathered basalt - interlocking granular, fine ground mass (0.1-0.2mm) ground mass of plag + chlorite with 1-2 mm pyroxene and plagioclase phenocrysts - unfoliated, weathered - unquenched - trace disseminated pyrite
25				23.9 EOH - 80'
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 20/2 19 97
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO CR97-406 LOCATION _____ ELEVATION _____
GEOLOGIST Ansell DRILLER Leger BIT NO. 71266 BIT FOOTAGE 215-285
MOVE TO HOLE 5:00-5:10
DRILL 5:10 - 5:45
MECHANICAL DOWN TIME 300-500: repair broken track on mucking
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE 5:45 - 6:00

pg 1/1

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0-0.8 Organics: peat
2				0.8-1.9 Lake Agassiz Sediments clay: massive grey clay, no grit or pebbles
3				1.9-18.4 Keewatin Till gritty grey clay rich matrix supported subrounded pebbles grit decreases downhole & sparse by 6.2m thin silty layer at 13.2m
4				
5				
6				
7				18.4-19.4 Labradorean Till unsorted grey silt & fine sand matrix, clast composition 90/10, matrix & most clast supported, cobbly
8				
9				
10				19.4-21.0 Bedrock
11				unstained medium green basalt - interlocking granular, unfoliated - 1-2 mm pleochroic pyroxene phenocrysts in 0.1-0.2 mm chlorite and feldspar groundmass - becomes more granulated, slightly foliated and stained down hole - quartz-vein with chlorite + minor pyrite between 20.4-20.8
12				
13				
14				
15				
16				
17				21.0 EOH 70'
18			01	
19				
20			02	
21			03	

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 21/02 1997

SHIFT HOURS

______ TO ______

TOTAL HOURS

______

CONTRACT HOURS

______

HOLE NO RR97-407 LOCATION ______ ELEVATION ______

GEOLOGIST Averill DRILLER Legault BIT NO CB71266 BIT FOOTAGE 285-315

MOVE TO HOLE 8:30 - 8:45

DRILL 8:45 - 10:45

MECHANICAL DOWN TIME ______

DRILLING PROBLEMS ______

OTHER ______

MOVE TO NEXT HOLE 10:45 - 1:30 7 km move to Teepee's field

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
			NS 01	0-0.5 Organics: soil
			0[illegible]	0.5-3.1 Keewatin Till
			03	gritty, oxidized beige clay-rich matrix, 1% limestone pebbles with interbedded organics
			04	3.1-7.3 Labradorean Till
	EOH 8.8 30'			

0-0.5 Organics: soil

0.5-3.1 Keewatin Till
gritty, oxidized beige clay-rich matrix, 1% limestone pebbles with interbedded organics

3.1-7.3 Labradorean Till

3.1-3.5 till: unsorted, oxidized beige silt and fine sand matrix with clast composition 50/50: volcanics & granitoids, near clast supported, cobbly pebbly

3.5-3.8 boulder: quartz monzonite slow drilling

3.8-4.4 till as above

4.4-5.6 till matrix becomes coarse biased with minor ochre silt and fine sand, mx supported clast composition 80/20: volc/gran. some sheared rhyolite clasts with 2% disseminated pyrite cubes, to 1mm.

5.6 hoses plugged + cleared

5.6-7.1 till matrix again silt & fine sand and grey in colour clast composition >90% sheared volcanic pebbles and cobbles & <10% exotic granitic pebbles and more local cobbles. Clast supported with pyritic basalt clasts at 6.8

7.1-7.3 gravel well sorted gravel with no matrix grading to coarse silt-fine sand mx by 7.3

7.3-8.8 Bedrock: dark green basalt
- v fine grained to aphanitic, quenched
- weakly foliated, trace of pyrite cubes to 2mm,
- [illegible]

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 21/02 1997 HOLE NO RR97-408 LOCATION Tuglis field by #600 ELEVATION _____
GEOLOGIST Ansell DRILLER Legault BIT NO CB71266 BIT FOOTAGE 315-390
SHIFT HOURS _____ TO _____ MOVE TO HOLE 10:45-1:30 7 km move
TOTAL HOURS _____ DRILL 1:30 - 4:15
CONTRACT HOURS _____ MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE break for holiday hole making water: plugged

01 1 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				0-0.1 Topsoil
1				0.1-10.3 Keewatin till
2				gritty, oxidized beige clay rich matrix grading down hole to slate grey, less gritty matrix by 4.8m, 1% limestone pebbles
3				
4				
5				10.3-21.0 Labradorean till
6				10.3-10.8 quartz monzonite boulder
7				10.8-21.0 till
8				10.8-14.6: unsorted, oxidized beige matrix of silt + fine sand near clast supported pebbly some cobbles, clast composition 40/60: volcanic/granitoid pebbles grading down hole to 80/20 by 13.0m some sheared volcanic clasts with pyrite
9				
10			NS	
11			01	clast supported by 14.0
12				
13			02	14.6-18.1 matrix as above but grey beige, till briefly matrix supported, clast composition 70/30 till becomes near clast supported down hole + matrix becomes
14			03	
15				coarse biased with minor silt + fine sand. very pebbly with cobbles
16			04	
17			05	18.1-19.1 till again matrix supported with abundant supply colour is oxidized beige and clasts are more distally derived with composition 60/40, 20% granite pebbles, visible pyrite
18				
19			06	19.1: silt well sorted grey beige silt
20			07	

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19__
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR97-408 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

pg 2 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21			07 cont'd	21.0 – 22.5 Bedrock light grey, sheared rhyolite - fine grained, granular interlocking - foliated, fractured - sericite on slip planes - disseminated/massive pyrite - no calcite - some pyrite stringers - minor chloritic patches
22			08	
23	ECH			22.5 ECH 75'
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 4/3 1997
SHIFT HOURS
____ TO ____
TOTAL HOURS
____
CONTRACT HOURS
____

HOLE NO RR-97-409 LOCATION 364 follow-up ELEVATION 1135'
GEOLOGIST Grant DRILLER Ryan BIT NO. CB71266 BIT FOOTAGE 390-505
MOVE TO HOLE 11:30 - 1:45
DRILL 2:00 - 4:15
MECHANICAL DOWN TIME repair mucky track
DRILLING PROBLEMS
OTHER wait & fetch water
MOVE TO NEXT HOLE 4:15 - 9:30

pg 1 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				0-1.0 Organics : river banks
				1.0 - 6.0 Lake Agassiz Sediments
				1.0-3.2 silty clay : oxidized beige clay with minor beige silt
				3.2-6.0 clay : slate grey unoxidized clay, massive, no pebbles
				6.0 - 29.4 Layered Weathered Till and Lake Agassiz Sediments
				6.0-14.9 till : grey unoxidized clay-rich matrix with trace of fg pebbles, granules, grit decreases downhole
				14.9-16.1 silty clay : as above
				16.1-16.3 clay : as above
				16.3-20.1 till : v sparse grit + granules <1% fg pebbles rods clogged between 17.0 + 19.0 m : bulk return appeared like till
				20.1-21.1 till + clay interlayered
				21.1-23.8 sand and gravel : poorly sorted beige fine to medium sand with 85% limestone pebbles and cobbles and 5% volcanics, 10% granite
				23.8-25.8 till : v gritty grey clay rich matrix with abundant granules - with interlayered silty clay pieces grit decreases downhole
				25.8-28.4 : poor return : mixture of soft silty clay + till.
				28.4-29.4 massive grey clay

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19 __
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR97-409 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				29.4-32.5 Labradorian Till and Glaciofluvial Sediments
22				29.4-31.0 sandy gravel: oxidized beige to grey beige poorly to moderately sorted fine to coarse sand, fining downhole, with 60% volcanic : 40% granite pebbles occasional traces of till with grey beige unsorted silt & medium sand matrix and 60/40 volcanic/granite clasts, some sheared and silicified volcanic clasts, may be reworked - matrix supported
23				
24				
25				
26				
27				
28				
29				31.0 - 32.5 till : matrix supported with grey beige changing quickly to grey matrix of unsorted silt & fine sand + granules, pebbles changing downhole to cobbly clasts, 90% volcanics, trace of sheared clasts.
30			01	
31				
32			02	32.1 : trace of gritty oxidized red clay lumps in matrix
33			03	32.2 - 32.4 tonalite boulder
34				32.4 - 32.5 : till as above with trace of green clay in matrix
35	ECH 115'			32.5 - 34.5 Bedrock
36				32.5 - 32.6 khaki saprolite
17				32.6 - 34.5 : medium green basalt - fine grained, interlocking granular - weakly to moderately foliated - minor iron staining of fractures and feldspars - no calcite or pyrite
18				
19				
20				33.6 - 33.8 qtz vein with trace disseminated pyrite

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

6/03

DATE 5/03 1997 HOLE NO RR97-410 LOCATION 3&4 follow up ELEVATION 1135

GEOLOGIST Arnell DRILLER Legault BIT NO CB71266 BIT FOOTAGE 505-690

CB71265 0-55

SHIFT HOURS

_____ TO _____

TOTAL HOURS

_____

CONTRACT HOURS

_____

MOVE TO HOLE on hole

DRILL 8:30 - 5:30

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS ~~bit~~ plugged at 54.5m

OTHER _____

MOVE TO NEXT HOLE 8:30 - 9:00 ; hole plugged with 1 log

NEW BIT pg 1 of 4

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				0 - 0.2 Organics spruce + poplar woods
				0.2-34.5 Layered Keewatin Till and Lake Agassiz Sediments
				0.2-11.1 clay till : gritty oxidized beige clay rich matrix grading to slate grey by 2.2, <1% ls pebbles, some 1% ls cobbles.
				4.2-11.1 silty clay interbeds : soft grey beige silty clay seams increasing in thickness and frequency by 11.1
				11.1-14.7 silty clay : coarsening downhole to moderately sorted beige silt and fine sand by 14.7, minor clay
				13.4-13.6 clay till interbed as above
				14.7- sand : moderately well-sorted fine & medium sand, minor grey clay + clay till seams fining to silt
				16.1-16.2 clay till as above
				17.5-26.9 silt well sorted beige calcareous silt with minor clay till + clay interbeds, fine sand
				26.4-27.0 clay till : v. gritty, clay rich matrix, pebbly, grit + pebble composition 10/20/70 volcanics/granitoids/ls, as
				27.0-34.5 : clay + silt : massive non gritty grey clay with occasional silty interval - maybe varves ~~cervical~~ clay till seams or ice rafted debris

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19__
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR97-410 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

pg 2 of 4

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				34.5 - 53.7 Labradorian Till and glaciofluvial Sediments
22	10			34.5 - 35.5 silty sand: moderately sorted grey beige fine sand + silt with sparse pebbles 90/60 volcanics & granite traces of till matrix, ie unsorted silt & fine sand plus granules increasing downhole & typical till matrix by 35.5
23				
24				
25	10			
26				
27	10			35.5 - 38.0 till: grey unsorted silt & med. sand matrix supporting sparse clasts of composition 60/40 locally rising to 80/20 volcanics/ granites with some sheared, sericite clasts, rhyolite, coarse py.
28				
29				
30	10			
31				38.0 - 40.1 till: grey beige silt & fine sand matrix with sparse granitoid pebbles, matrix & near clast supported 90/60: 10/gm.
32				
33	10			
34				40.1 - 42.1 sand + gravel: moderately sorted coarse grey sand + granules, pebbles 20/80 volcanics/granitoids
35				
36			01	42.1 - 44.9 till: matrix unsorted silt & medium grey sand supporting granules and coarse sand with abundant sheared sericite clasts with coarse pyrite, some rhyolite, cobbly - granite + volcanic cobbles increasingly coarse sheared matrix downhole
37				
38			02	
39				
40			03	

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19__
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO CR97-410 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

pg 3 of 4

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
41			04	44.9 - 48.1 till: matrix changes to unsorted grey beige silt & fine sand supporting granules & sparse pebbles; till coarsens downhole to cobbly, near clast supported with matrix still present but coarse biased by 45.6: trace of sheared clasts - pyrite; clast composition generally 60/40: silicic to int. volcanics/plutonic clast granite pebble- & cobble- (locally 70/30) again matrix supported and pebbly by 46.1, some weathered clasts
42				
43			05	
44				
45			06	
46			07	
47			08	
48				
49			09	
50			10	
51				46.5: change coupling cobbly by 47.0 slow-drilling
52			11	
53			12	48.1 - 53.7 till - glaciofluvial (Hob. 48.1-48.3: silty sand: well sorted grey beige sand + silt grading downhole to till by 48.3
54				
55				48.3 - 48.6: till: matrix unsorted grey beige silt + fine sand supporting clasts + pebbles of composition 50/50: volc/gran. some sheared clasts
56			13	
57				
58				48.6 - 53.7: till + sand return oscillates quickly between till as above and poorly sorted coarse sand and gravel, till pebbly with coarse-biased matrix supporting 50/50: volc./gran.
59				
60				53.2 - 53.7 silt: non-calcareous beige silt with pebbly seams,

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19__
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR97 410 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
61			14	53.7 - 70.5m Bedrock Red Beds 53.7 - 58.0: siltstone with trace of coarser chips: return is ochre clay + chips fining down hole and changing to red clay and silt by 54.6 (may be source of red clay lumps in RR-97-409-2 becomes red clay by 55.4 58.0 - 63.3 red sandstone: chips coarser, return mostly fine red sand with coarse quartz - white vein or conglomerate at 57.1, 57.9, 58.3, 59.1, 60.5 & 61.0, 62.1; brief shaley return at 61.0 buckets emptied at 61.5 some reduced grain silt was present 63.3 - 70.5 shale, siltstone brick red clay forms most of return #1 bucket contained 60% red oxidized lithics, 30% quartz grains 8% yellow ochreous lithics, 2% miscellaneous black grains, 65.4 quartzite
62				
63				
64			13 Cont'd	
65				
66				
67				
68				
69				
70				
71	EOH 70.5m 235'			
12				
13				
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 7/3 19 97
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR97-411 LOCATION 364 follow up ELEVATION 114
GEOLOGIST Ansell DRILLER Lypaull BIT NO. CR31265 BIT FOOTAGE 55-195
MOVE TO HOLE 830-900
DRILL 900-300
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER hole making water - 1 log & plug
MOVE TO NEXT HOLE 300-315

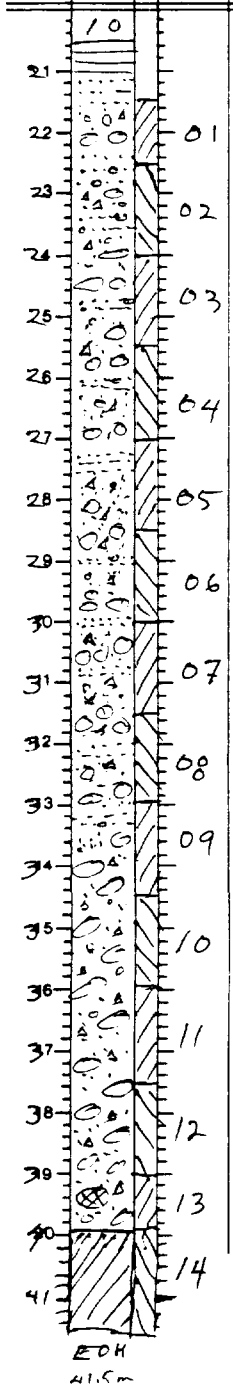
pg 1 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0-0.9 Organics
2				0.9-21.5 Kelvatin Till and Lake Agassiz Sediments
3				0.9-4.3 till: oxidized beige clay rich matrix grading downhole to grey by 3.9m, v. sty gritty, 1% limestone pebbles
4				4.3-4.8 clay: very soft, non-gritty mashed grey clay.
5				4.8-5.4 sand well sorted, fine beige calcareous sand with silty grey clay seams
6				5.4-6.6 till: slightly gritty grey clay-rich matrix, sparse pebbles
7				6.6-9.9 sand: as above
8				9.9-17.9 till: as above (5.4-6.6)
9				17.9-18.9 clay: grey, slightly silty clay, no pebbles or grit
10				18.9-20.5 till: grey clay-rich matrix with abundant beige grit + limestone pebbles
11				20.5-21.0 clay: as above
12				21.0-21.5 sand: as above
13				
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19__
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR97 411 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____



DESCRIPTIVE LOG

21.5-39.9 Labradorean Till + glaciofluvial sediments

21.5-22.4: till: unsorted grey silt-fine sand matrix supporting locally derived, angular clasts and clasts of composition 70/30: volcanic/gran.

22.4-22.8: sand-gravel: poorly-sorted grey-beige coarse sand-gravel (50/50) rounded volcanic-granite pebbles

22.8-23.4: till: unsorted grey beige silt-fine sand matrix supporting distally derived clasts of composition 50/50

23.4-23.9: sand + gravel as above

23.9-24.9: till: grey silty sand matrix supporting more proximal clasts of composition 70/30: vole/gran. with a trace of ochre sandstone, sheared clasts, pg.

24.9-26.0 till: decreasing local content + increasing rounded granite pebbles.

26.0 sand as above

26.0-27.1: till: very cobbly, matrix supported, 50/50, some granite clasts

27.1-34.0: till: cycles rapidly from clast different matrix supported to pebbly to cobbly near clast supported and back again over 0.5-1.0 m intervals, clasts 50/50: vole./gran.

32-34: clasts more proximal, 70/30 abundant sheared clasts

34.0-39.9: till: non-cyclical, grey beige silt-fine sand matrix supporting 60/40 : vole/gran. clasts, cobbly; pg.

39.2-39.4: basalt boulder

39.4-39.9: very cobbly: 90/10 vole/gran.

39.9-40.5: medium green unsheared basalt **Bedrock**

- fine grained, granular interlocking, weakly foliated
- [illegible]

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

8/3

DATE 7/3 19 97

SHIFT HOURS

_____ TO _____

TOTAL HOURS

_____

CONTRACT HOURS

_____

HOLE NO RR97-412 LOCATION 364 follow-up ELEVATION 1145

GEOLOGIST Arnell DRILLER Ligantt BIT NO CB7126C5 BIT FOOTAGE 195-358'

MOVE TO HOLE 300 - 315

DRILL 330 - 530 ; 9:00 - 12:30

MECHANICAL DOWN TIME 315 - 330 repair hydraulic line; change oil

DRILLING PROBLEMS rods binding at 32m, pulled @ 28.5 + flushed

OTHER stopped at 53.50m for night.

MOVE TO NEXT HOLE Note: hole plugged with 1 bag

pg 1 of 3

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				0-0.2 organics
				0.2 - 34.0 Keewatin till + Lake Agassiz sediments
				0.2-3.9 till: gritty oxidized beige clay rich matrix, 1% to pebbles
				3.9-9.9: sand: well-sorted beige fine sand with grey silty clay seams, brief interval of Keewatin till at 5.6
				9.9-11.6: till: slightly gritty clay-rich grey matrix with sparse to pebble - trace of coarse gg. ??
				11.6-12.4 sand as above
				12.4-18.0 till as above
				18.0-18.6 sand as above
				18.6-31.0 till as above
				31.0-31.6 sand as above
				31.6-33.0 till as above
				33.0-34.0 clay: soft silty grey clay, no grit or pebbles

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19 __
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR97-412 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

pg 2 of 3

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				34.0 - Labradorian Till + Glaciofluvial Sediments
22				34.0-34.4 till: unsorted grey silt-fine sand matrix supported clasts of composition 50/50 volcanics/volcanics pebbly & cobbly
23				34.4-35.0 sand: well sorted fine grey sand with pebbly seams
24				35.0-37.4: till as above
25				37.4-40.2 till matrix, as above supporting more proximal clasts of composition 70/30: volc/gran. abundant sheared clasts py. sheared pyritic rhyolite cobble at 40m.
26				
27				
28				
29				
30				
31				40.2-41.3 till becomes more pebbly and matrix coarse bimodal grading to coarse sand and gravel and back again several times through this section clast composition variable from 60/40 to 50/50: volc/gran till matrix supported, locally cobbly- some weathered granite cobbles at 41.0
32				
33				
34				
35			01	
36			02	
37				
38			03	
39				41.3 - 42.8 sand + gravel: well sorted fine sand + gravel with some cobbles, pyrite
40			04	

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19__
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR97-412 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
41			05	42.8 – 44.0 till: coarse biased, matrix supported, composition 60/40: volcanics/granite- abundant sheared clasts, visible pyrite.
42				
43			06	
44			07	44.0 - 44.4: sand+gravel moderately sorted coarse sand with gravelly seams, pebble 50/50
45				
46			08	44.4 - 46.2: till: unsorted silt and fine sand matrix, locally coarse biased, grey & 44.6 grey beige below. Matrix supports clasts of composition 60/40 trace of sheared clasts, py. till cycles from coarse biased, pebbly near sand - gravel matrix supported & cobbly near clast supported and back over 0.5 - 1m intervals
47			09	
48			10	44.8 - 45.6: clast composition still 60/40 but local clasts = cobbles, few xplotic granite pebbles
49	EOH 49.0 163'			45.6 - 46.7: clasts more distal, less angular, 10% xplotic granites
50				46.2 - 47.4 basal till: matrix mostly rock cuttings, still a variety of rock types in clasts.
11				47.4 - 49.0 Bedrock
12				- slightly sheared green basalt
13				- foliated, epidote + iron stains on foliation planes, trace coarse pyrite
14				- no veining; encountered narrow sandy seams along bedding? planes.
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 8/3 1997
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-413 LOCATION 346 follow-up ELEVATION 1145
GEOLOGIST Arnold DRILLER Legault BIT NO. CR7134 BIT FOOTAGE 0-105
MOVE TO HOLE 12:30 - 2:00 down + raise tower
DRILL 200 - 400
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE 400 - 415 hole plugged - 1 log

pg 1 of 2 NEW BIT, NEW SUB

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				0-0.2: organic soil
				0.2 - 28.4 Layered Lacustrine Silt and Lake Agassiz Sediments
				0.2 - 1.4 till: oxidized beige clay rich matrix, 1% ls pebbles, gritty
				1.4 - 2.4 sand: well sorted fine beige calcareous sand with occasional grey clay + silt seams
				2.4 - 5.3 till: slightly gritty slate grey clay rich matrix sparse pebbles
				5.3 - 8.8 till: very gritty clay rich matrix with fine beige sand and 1% ls pebbles.
				8.8 - 11.0 sand as above
				11.0 - 14.0 till: as above from 2.4 - 5.3
				14.0 - 14.8: sand: as above
				14.8 - 17.9: till: as above with minor sandy seams
				17.9 - 21.1 sand: as above with minor pebbly seams and occasional till layers
				21.1 - 26.9 till slightly gritty matrix as above
				26.9 - 28.4: clay soft, massive, grey clay

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19__
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR-97 413 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
2				28.4-28.5 Labradorean Till v. thin layer - washed after drilling bedrock to increase sample size - sample undersized
23				28.5-31.5 Bedrock grey sericite schist protolith probably intermediate volcanic sheared, strongly foliated, lineated, trace disseminated pyrite, trace of coarse pyrite, quartz veinlets may contain chloritoid
24				
25				
26				
27				
28			01	
29			02	
30				
31				
32	105' EOH			
33				
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 8/3 (9/3) 1997
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR9744 LOCATION 396 follow up ELEVATION 1145
GEOLOGIST Ansell DRILLER Legault BIT NO. CB7134 BIT FOOTAGE 105-258
MOVE TO HOLE 400-415
DRILL 415-530 ; 8.30-1215
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE 1215-1230 hole plugged - 1 log

pg 1 of 3

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				0-0.2 Organics + soil
				0.2-28.5 Layered Reworked Till and Lake Agassiz Sediments
				0.2-11.0 Till: gritty, oxidized beige clay with matrix to 4.9m, changing to grey matrix and sparse grit below.
				11.0-12.1 sand - well sorted fine beige calcareous sand
				12.1-16.8 Till: very gritty 2% ls pebbles/occasional sandy seams
				16.8-20.1 sand: as above, with gg sitgch.
				20.1-21.9 sand and gravel poorly sorted, bimodal fine sand and gravel with some cobbles, pebbles of composition 5/10/85: volcanics/granitoids/ls+ss.
				21.9-27.6 Till: grey, clayey with sparse grit, pebble-
				27.6-28.5 clay soft, ungritty grey clay, min silt

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19__
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR97444 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				26.5-44.6 Labradorean Till ± glaciofluvial sediments
22				28.5-31.0 till: unsorted grey silt & fine sand matrix supporting 60% volcanics, mostly mafic and 40% felsic granitoids, trace of pyrite, stained clasts, pebbly to cobbly downhole no bedding evident
23				
24				
25				
26				31.0-39.2 till: matrix beige to grey beige silt & fine sand, supporting clasts of composition 70/30 volcanics & granitoids; matrix and clasts are oxidized in appearance, matrix is fine-based and drills easily with abundant supply; some cobbles, py, stained clasts
27				
28				
29			01	
30				
31			02	
32			03	
33				34.0-34.9: mafic clast supported cobbly gritty to matrix
34			04	supported by 35.0
35			05	36-38.8 abundant stained dark green basalt, cobbly mafic clast supported
36				
37			06	38.8-39.2 matrix supported sandy till, 60/40, less oxidized
38			07	39.2-39.8 sand: well sorted grey sand ± minor pebbles grading downhole to till
39				
40			08	39.9 Tonalite boulder
			N/S	-40.1

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19__
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR97414 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

pg 3 of 3

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
41			8 cont'd	40.1 - 42.8 till cobble clast supported, many tonalite cobble & boulders sample mostly cobble cuttings, matrix sparse
42			09	41.0 tonalite boulder
43			10	41.6 basalt boulder
44			11	42.8 - 43.2 clay till matrix contains grey calcareous clay lumps & 10% ss sand dust of matrix grey, silt & fine sand, some granules & it supports clasts of composition 70/30 grading downhole to mon clast supported & > 90/10, trace of coarse pyrite, no sheared clasts, trace of gabbro etc.
45			12	44.6 - 46.0 Bedrock
46				- sheared, dark green basalt
47				- foliated, lineated.
48				- minor sericite.
49				- trace of fine grained disseminated pyrite.
50				at 45.7: abundant iron staining, maybe weathered pyrite?
11				below 45.8 basalt may be plag phyric. & less sheared.
12				
13				
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 9/3 1997
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR97415 LOCATION _____ ELEVATION _____
GEOLOGIST Arnell DRILLER Layault BIT NO CR7/314 BIT FOOTAGE 256 - 411
MOVE TO HOLE 12:30 - 12:45
DRILL 12:45 - 3:45
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE 3:45 - 4:15 hole plugged: 1 bag

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				0-0.2 Organics soil.
				0.2 - 36.4 Laynod-Kewatin till and Lake Agassiz Sediments
				0.2 - 1.4 till: oxidized brown gritty clay rich matrix 1% to pebble-
				1.4-2.9 sand: well sorted beige calcareous, fine sand with occasional silty grey clay layers-
				2.9-8.4 till: as above grading downhole to grey matrix by 4.4, sparse grit, pebbles by 5.0
				8.4-11.6 sand: as above, minor till interval
				11.6-15.0 till as above
				15.0-16.6 sand: as above with pebbly seams
				16.6-18.4 till: as above
				18.4-21.1 sand as above
				21.1-25.4 till as above, minor sandy seams
				25.4-28.8 sand, as above
				28.8-34.1 clay till as above
				34.1-36.4 clay: soft massive argillaceous grey clay, no pebbles

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19__
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR9714/5 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21	C			36.4 - 43.4 Labradorian Till
22	A			36.4 - 38.0 Till : unsorted grey silt - fine sand matrix supporting 80/20 volcanics / granitoids, trace sediments, sheared volcanic pebbly changing to cobbly downhole -
23				37.4 tonalite boulder
24	C			37.6 - 38.0 very cobbly
25	A			38.0 - 42.4 matrix grey beige, some oxidized clasts supported by silt to fine sand matrix grey beige grading to grey downhole becoming near clast supported clast composition 50/50 volcanics / granites some py, sheared basalt some bleached, sheared pyritic clasts.
26				
27				
28				
29	C			
30				
31				
32	A			
33				
34	C			
35				
36				
37	A		01	
38	A		02	
39				
40	A		03	42.4 - 43.4 : matrix grey green, clasts 80/20

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19 __
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RD9745 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

pg 3 of 3

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
41			03	43.4 - 45.3 Bedrock dark green basalt 43.4 - 43.8 weakly foliated green basalt w. fn. pyrite
42			04	
43			05	43.8 - 43.9 : brown + green rock flour
44			06	43.9 - 44.2 basalt + barren quartz vein, basalt unfoliated, granular interlocking, fine grained
45				44.2 - 45.0 rock flour
46				45.0 - 46.0 dark green unfoliated basalt with disseminated fine pyrite and coarse pyrite stringers (py ⌀ 2 mm) barren qtz + ep vein at 45.2 EOH 46 m / 153'
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 9-10/3 19 97 | HOLE NO RR97 416 | LOCATION _____ | ELEVATION 1137

GEOLOGIST Ansell | DRILLER Leggatt | BIT NO. CB71314 | BIT FOOTAGE 411-536'

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE 345-415

DRILL 415-5:00 8:30-1:00

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS first three rods very difficult to withdraw

OTHER abundant shallow water hole plugged 1 log

MOVE TO NEXT HOLE 1:00 -

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				0-0.3 Organics river bank
1				0.3-24.9 Keewatin Till and Lake Agassiz sediments
2				0.3-15.6 till: gritty matrix oxidized beige to 3.9m grey below, clayey, 1% ls pebbles; sparse grit and pebbles by 5.5, sandy seams
3				
4				
5				
6				15.6-17.2 sand: well sorted fine beige sand minor silty grey clay seams
7				
8				17.2-23.2 till: as above, minor clay seams
9				
10				23.2-24.9 sand as above
11				24.9-36.2 Labradorian Till and Glaciofluvial Sediments
12				24.9-32.6 till: cyclical: cycle begins with matrix of unsorted grey silt and sand supporting clasts of composition 60% volcanic pebbles + sheared clasts and 40% felsic granite pebbles, becoming near clast supported downhole. then changing to grey-beige coarse textured matrix supporting pebbles cobbles and clasts with higher percentage of volcanics (from 70 to 90%) and more local granitoids. Bottom of
13				
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19__
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RRG7416 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				each cycle is cobble clasts of composition 60/40 volcanics/granitoid supporting a sparse grey silt/sand sand matrix. cycles are indicated on graphic log: each cycle is 1-1.5 m. 6 cycles were observed: ① to ⑥
22				
23				
24				
① 25			01	
26			02	27.4 m: sheared pink quartz feldspar porphyry cobble
② 27				
28			03	30.6 sheared grey volcanic cobbles: intermediate or rhyolite with up to 5% py.
③				
29			04	32.2 oxidized red sandstone clasts
④ 30				
⑤			05	32.6-33.1 ~~sand: gravel~~: very coarse sand, poorly sorted with fine gravel of composition 40/60 grading back to till by 33.5
31				
⑥ 32			06	
33				
34			07	33.5 - 34.6 till: coarse grey biased unsorted silty sand matrix supporting clasts and cobbles of composition 70/30 locally 90/10: volc/gran. many sheared clasts
35		boulder		
36			08 10	33.9 sandy seam
37			09 10	34.3 abundant coarse pyrite
38	EOH 128'			34.6 Boulder: sheared grey volcanic 2-3% cpy.
39				35.6-36.2 till: gy bg silt fine sd matrix
40				36.2-37.7 Bedrock: light-grey sheared volcanic - rhyolite or bleached volcanic - sericitized, foliated - lineations are stretched feldspars - coarse pyrite to 1%, pyrite stringers 1-2%

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 10/3 1997
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR97-417 LOCATION 346 follow-up ELEVATION 1145
GEOLOGIST Arnell DRILLER Legault BIT NO 871274 BIT FOOTAGE 0-75
MOVE TO HOLE 1:00 - 2:00
DRILL 2:00 - 3:00
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE 3:00 - 4:00 hole plugged 1 bag NEW BIT

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20			01, 02	0-0.8 Organics forest floor 0.8-16.4 Keewatin Till. gritty, oxidized beige clay rich matrix, grey by 4.2, 2% pebbles, trace of volcanic & granite grit & pebbles sparse grit pebbles by 13.0 16.4-21.2 Glaciofluvial Sediments and Labradorean Till sand: well sorted fine grey beige sand with a trace of till matrix between 17.4 - 17.6 m, few pebble trace of calcareous sand locally: probably Lake Agassiz reworking Labradorean till.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19 __

SHIFT HOURS

_____ TO _____

TOTAL HOURS

_____

CONTRACT HOURS

_____

HOLE NO RR97-417 LOCATION _____ ELEVATION _____

GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____

MOVE TO HOLE _____

DRILL _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21			02	21.2 - 22.5 Bedrock
			03	21.2 - 21.4 : barren quartz vein in unsheared basalt (vial only)
22			03	21.4 - 22.5 : unsheared weakly foliated dark green basalt equigranular interlocking fine grained, unguended trace diss py. may have quartz eyes
23	EOH 75'			EOH 22.5 m
24				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 10+ 11/3 19 94

SHIFT HOURS ____ TO ____

TOTAL HOURS ____

CONTRACT HOURS ____

HOLE NO RR97 418 LOCATION ~30m N of 8cc538504 ELEVATION ____

GEOLOGIST Arnell DRILLER Ingault BIT NO CB 74274 BIT FOOTAGE 75-105

MOVE TO HOLE 7:00 - 4:00

DRILL 4:00 - 5:30 ; 8:30 - 10:30

MECHANICAL DOWN TIME ____

DRILLING PROBLEMS ____

OTHER steam - rods 8:00 - 8:30

MOVE TO NEXT HOLE 10:30 - 11:30 ; hole plugged - 1 log

pg 1 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0-0.5 Organics
2				0.5-24.2 Layered Glaciofluvial and Lake Bypassing Sediments
3				0.5-4.6: till: gritty clay rich matrix with pebbles grading to grey by 2.9 17% clasts with non gritty clay seam at base
4				
5				
6				4.6-9.6 sand well sorted advance sand with silty grey clay seams
7				
8				9.6-10.7 clay massive non gritty grey clay
9				
10				10.7-23.2 till slightly gritty, soft, grey clay rich matrix with very gritty interval containing 15% volcanics granitic grit at 19.5 becoming less gritty downhole
11				
12				
13				
14				23.2-24.2 clay as above
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19 __
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR97 418 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				24.2 - 31.9 Labradorian Allard Glaciofluvial Sediments
22				24.2 - 25.0 sand: well-sorted fine grey beige sand with trace of calcareous sand, minor gravel
23				25.0 - 27.0 till: grey beige silt & fine sand matrix supporting clasts of composition 70/30 volcanics/granites, trace of sheared clasts, gy. becoming more clast supported downhole 26.0 - 26.2
24				
25			01	
26			02	
27			03	27.0 - 27.3 tonalite boulders
28				27.3 - 31.9 cyclical till: sandy, clast deficient matrix supported becoming pebbly then cobble supported - 4 cycles observed clast composition changing downhole to >90% volcanics many sheared
29			04	
30				
31			05	
32				
33			06	31.2: abundant bleached clasts - Fe-alteration, till clast supported, matrix oxidized
34	EOH 33.5			31.9 - 33.5 Bedrock - dark green basalt with pronounced iron oxidation - very fine grained to aphanitic with chloritized groundmass - occasional quartz eyes - weakly foliated, lineated - no pyrite.
35				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 11/3 1997
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR97-419 LOCATION _____ ELEVATION _____
GEOLOGIST Arnell DRILLER Legault BIT NO. CB71274 BIT FOOTAGE 186 - 304
MOVE TO HOLE 10:30 - 11:30
DRILL 11:30 - 2:00
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE 2:00 - 2:15 hole plugged - 1 bag.

pg 1 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0-1.4 Organics: soil
2				1.4-13.6 Kewatin till gritty clay rich matrix, oxidized, huge grading to grey by 3.2. grit contains 15-20% volcanic + granite. 5% pebbles grit + pebble content decreases downhole silty clay seam at 11.2
3				
4				
5				
6				
7				13.6-17.6: sand well sorted beige fine sand with silty grey clay seams, trace/till interval
8				
9				
10				17.6-18.1 tonalite-boulder
11				18.1-29.4 till as above
12				29.4-29.9 clay massive non gritty grey clay.
13				
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19__
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR97 419 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

pg 2 / 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				29.9 - 33.5 Labyrinthian Till and fluvial sed.
22				29.9 - 32.6 till grey silt + fine sand matrix supporting a few small clasts of composition 70/30 volcanics/granite becoming moderately sorted medium sand, minor gravel (50/50)
23				32.0 - 32.6 basalt boulder
24				32.6 - 33.5 till: dk gy, fine sand and silt matrix supporting 95/5 volcanics/granitic. rapidly becomes clast supported dark abundant sheared clasts
25				33.5 Bedrock
26				sheared intermediate volcanic
27				33.5 - 33.6: yellow clay
28				33.6 - 33.7 sheared volcanic chips - light green
29				33.7 - 37.8 poor return.
30			01	37.8 - 35.0 sheared intermediate volcanic with fine grained felsic groundmass - lineated, foliated - mafic chloritized, - Bedrock very friable return contains 5% granules as contamination
31			02	
32			NS	
33			03	
34			04	
35				
36				
37				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 11/03 1997 — HOLE NO RR97-420 — LOCATION _____ — ELEVATION _____

GEOLOGIST Arnell — DRILLER Liguell — BIT NO. CB7274 — BIT FOOTAGE 304-434

SHIFT HOURS _____ TO _____

MOVE TO HOLE 2:00 - 2:15

DRILL 215 - 530

TOTAL HOURS _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS _____

OTHER _____

MOVE TO NEXT HOLE 8:30 - 8:45 — Lake plugged - 1.log

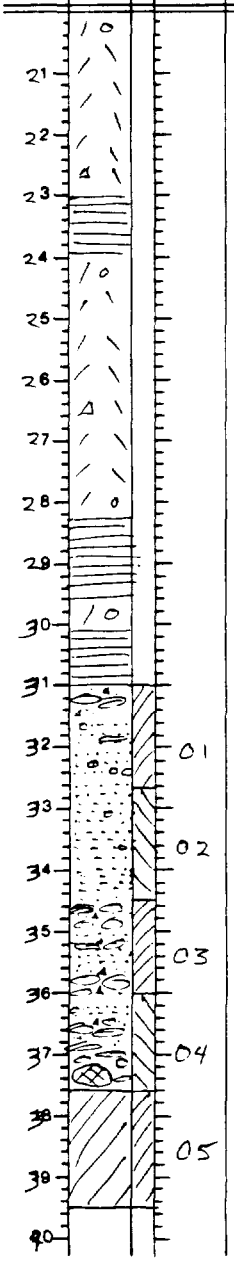
pg 1 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1	^^ / O /			0 - 0.4 Organics river bank
2	/ /			0.4 - 31.0 Layered Kewatin Till and Lake Agassiz Sediments
3	/ Δ /			0.4 - 5.0 till: gritty clay rich matrix oxidized beige to 1.2, grey below 1% pebbles
4				3.3 - 5.6 clay: massive non gritty grey clay
5				5.6 - 23.0 till: as above with grit decreasing downhole to sparse by 9.8; gritty between 12.0 + 14.6; sparse below may grade into clay between 15 + 16 m. grit becomes abundant below 21.1 with 15% of grit composed of volcanics + granitoids + 85% Ls + ss.
6	/ O /			
7	/ /			
8	Δ /			
9	/ /			
10	/ O /			
11	/ /			
12	/ /			23.0 - 24.0 clay as above
13	Δ /			24.0 - 28.3 till: as above, 5.6 - 23.0
14	/ /			28.3 - 31.0 clay: as above with silty till interval
15	/ /			
16	O			
17	/ /			
18	/ O /			
19	/ /			
20	Δ /			

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19__
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR97420 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____



DESCRIPTIVE LOG

31.0 - 37.6 Labradorean Till and Glaciofluvial Sediments

31.0 - 32.1 till: unsorted grey beige silt & fine sand matrix supporting granules, clasts of composition 40/60: volcanics/granitoids, pebbly,

32.1 - 34.6 sand: moderately & poorly sorted coarse sand-gravel grading downhole into well sorted grey beige medium sand with minor cobbles sand by 32.8, grading mostly

34.6 - 37.4 till: clast & deficient pebbly sand till with clast composition ranging from 70/30 downhole to 90/10 by 35.7 abundant sheared, sericitized clasts, red clay and red oxidized clasts 36.4 - 37.0, very cobbly below 37.0

37.4 - 37.6 beige sheared volcanic boulder

37.6 - 39.5 Bedrock:

37.6 - 38.6 very soft rock - drilled & rock flour

38.6 - 39.5: highly sheared light green & pinkish volcanic - schistose, sericitized - all mafics altered & chloritic in light green phase, & red spots in pinkish phase, no pyrite

EOH 39.5m (132')

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 12/07 1997 HOLE NO RR97 421 LOCATION _____ ELEVATION _____

GEOLOGIST Ansell DRILLER Legault BIT NO. 287/274 BIT FOOTAGE 434 - 566

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE 8.30 - 8.45

DRILL 8.45 - 12:00

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE 12 - 12.30

Pg 1 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0-0.8 Organics River edge
2				0.8-27.1 Layered Excavation till + Lake Agassiz Sediments
3				0.8-2.4 till: very gritty clay rich matrix, pebbles, boggy grading to grey by 1.9; 1% limestone pebbles.
4				2.4-2.8 clay massive grey non gritty clay
5				2.8-4.9 till as above
6				4.9-6.1 till matrix silt & sand with minor clay very gritty and pebbly
7				6.1-11.2 till clayey matrix with sparse grit + <1% pebbles
8				8.2 tonalite cobble, 13.4 lb cobble
9				11.2-15.5 soft grey non gritty clay interval interbedded with slightly gritty clay till
10				15.5 gravel 5/85/10: volcanic/granite/ls as
11				15.6-18.4 sand: well sorted beige calcareous sand with minor silty grey clay seams, becoming poorly sorted down hole
12				18.4-26.7 till as above with clay seams
13				26.7-27.1 clay as above
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19__
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR97 421 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

pg 2 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				27.1 - 36.9 Labradorean Till and Glaciofluvial Sediments
22				27.1 - 28.9 sand: well sorted grey beige sand, minor calcareous component, minor pebbly seams 50% volcanics : 50% granite
23				28.9 - 36.9 - till : 4 cycles of till observed : 28.9 - 31.3, 31.3 - 33.6, 33.6 - 35.7 and 35.7 - 36.9 Each cycle begins with unsorted grey beige silt and fine sand matrix supporting 70% volcanic and 30% granitic clasts, some pebbly The middle of the cycle grades to near clast supported, coarse biased grey beige matrix with pyrite and sheared clasts, composition 90/10, some pebbles cobbles Base of cycle clasts supporting a grey & grey beige fine silty sand matrix with clast cobble composition 70/30.
24				
25				
26				
27				
28			01	
29			02	
30				
31			03	
32			04	
33				
34			05	
35			06	36.2 : red clay lumps in matrix
36				36.9 Bedrock :
37			07	polygenic sheared bleached volcanic - abundant sericite - foliated lineated very little +10 return i.e. buckets were changed at 38.0 to collect clean -10 bedrock sample - barren quartz vein at 39.0
38			08	
39				
40	EOH 39.5 132'			

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 12/03 1997
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR97-422 LOCATION _____ ELEVATION _____
GEOLOGIST Arnell DRILLER Legault BIT NO CB71274 BIT FOOTAGE 566-651
MOVE TO HOLE 12-12:30
DRILL 12:30-2:30
MECHANICAL DOWN TIME replace gear box on drill
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE 4:30-5:30 - to creek edge

pg 1 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0 - 0.4 Organics forest floor
2				0.4 - 24.0 Layered Keewatin Till and Lake Agassiz Sediments
3				0.4 - 2.0 Till: oxidized beige gritty clay rich matrix becoming grey by 1.1, grading through sparse grit to massive clay by 2.0
4				2.0 - 2.5 clay massive non-gritty grey clay.
5				2.5 - 15.2 Till: very gritty clay rich matrix with 1% to pebbles. amount of grit + pebbles variable through interval but character of till unchanged occasional clay interbeds
6				15.2 - 15.6 clay as above
7				15.6 - 17.9 sand and gravels. bimodal medium beige calcareous sand and pebbles of composition 10/10/80: volcanics/granites/sediments, fining downhole to sand only by 16.2
8				17.9 - 18.1 clay as above
9				18.1 - 23.5 Till as above, sparse grit, pebbles.
10				23.5 - 24.0 clay as above
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 12/03 1997 HOLE NO RR97422 LOCATION _____ ELEVATION _____

GEOLOGIST Assell DRILLER Legault BIT NO CB71274 BIT FOOTAGE _____

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE _____

DRILL _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				24.0 - 25.3 Labradorean Till
22				unsorted grey silt & fine
23				sand matrix, near
				clast supported, 60/20:
				volcanics/granites, cobbly
24				24.3 - 24.5 tonalite boulder
			01	25.3 - 26.0 Bedrock
25				unstained dark grey basalt
			02	- equigranular interlocking
26				- weakly foliated
	EOH 26.0 87'			- fine grained, unquenched
7				- quartz eyes
				- no calcite or pyrite
8				- minor ochre weathering
9				- Note: gears failed on
				drill head at 26.0 m
10				∴ hole terminated
				High probability that
11				bedrock had been reached
12				- presence of rock flour
				at 25.3 steady
13				depth in of drilling.
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 13/3 1997
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR97423 LOCATION _____ ELEVATION _____
GEOLOGIST Ansell DRILLER Leggett BIT NO. CB7/274 BIT FOOTAGE 651-795
MOVE TO HOLE 630-930
DRILL 930 - 100
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE 100 - 130 hole plugged — 1 log

pg 1 of 3

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1	^^^			0 - 1.3 Organics river bank
2				1.3 - 30.5 Laguna Kelbati Till and Lake Agassiz Sediments
3				1.3 - 5.4 clay: massive, non gritty grey clay, no pebbles
4				5.4 - 11.9 till: grey clay matrix with abundant beige grit + 1-2% limestone pebbles, grit + pebbles decrease with depth
5				11.9 - 13.4 clay: soft grey clay with minor silt + fine sand - may be varves
6	10			13.4 - 16.1 till as above
7				16.1 - 30.5 clay and till interbeds clay + till as above fine beige sand interval 22.6 - 24.6
8				
9				
10				
11				
12				
13				
14	10			
15				
16				
17	10			
18	10			
19				
20	10			

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19__
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR97423 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				30.5 - 41.8 Labradorean Till and glaciofluvial sediments
22				30.5 - 31.9 till: grey silt & fine sand matrix supporting pebbly clasts of composition 50/50 volcanics/granitoids becoming bouldery clast supported by 30.9 with traces of sheared clasts, grey matrix colour variable, occasional oxidized clasts. Hole was drilled between 2 branches of a creek - groundwater may have affected matrix often.
23				
24				
25				
26				
27				
28				
29				31.9 - 33.9 till: 2nd cycle, clast composition changes to 60/40 at 32.0
30				
31			01	33.9 - 38.0 sand: well sorted fine beige sand with minor calcareous component brief till interval at 37.0 m
32			02	
33			03	38.0 - 41.8 till: uniform to 40.2: grey beige silt fine sand matrix, supporting clasts of composition 60/40 sheared clasts by 40.2 mainly clast supported 90/10.
34				
35			04	
36				40.6 - 40.9: boulder of clay lumps
37			05	41.4 - 41.5: boulder as above
38				41.8 - 43.5 Bedrock
39			06	light grey sheared, bleached intermediate volcanic
40			07	Note: highly weathered to actual clay - hole drilled between 2 branches of a stream - schistose to subschistose, silicified, sheared - chlorite, some mafics altered to biotite and - trace of pyrite - rock becomes less sheared by 42.8 - foliated, interlocking granular - up to 5% tourmaline

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19__

SHIFT HOURS

_____ TO _____

TOTAL HOURS

_____

CONTRACT HOURS

_____

HOLE NO RR97-423 LOCATION _____ ELEVATION _____

GEOLOGIST _____ DRILLER _____ BIT NO _____ BIT FOOTAGE _____

MOVE TO HOLE _____

DRILL _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

pg 3 of 3

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
41			07 cmld	
			08	
42				
			09	
43				
44				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 13/03 1997
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR97-424 LOCATION _____ ELEVATION _____
GEOLOGIST Ansell DRILLER Legault BIT NO. CB71274 BIT FOOTAGE 795-88
MOVE TO HOLE 1:00-1:30
DRILL 1:30-3:00
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE 3:00-3:30 hole plugged - 1 bag

pg 1 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0-0.4 Organics - soil
2				0.4-21.7 Layered Quartzite till and Lake Agassiz Sediments
3				0.4-2.3 till: oxidized beige very gritty clay rich matrix - 1% M.G. pebbles
4				2.3-5.9 clay: massive, slate grey, non gritty clay
5				5.9-14.5 till: grey clay rich matrix with abundant fine grit with 10% volcanics 10% granitic components 1-2% pebbles of same composition 8.6-9.2 soft grey, non gritty clay interval
6				
7				
8				
9				14.5-16.4 clay; as above (2.3-5.9)
10				16.4-21.5 till as above
11				21.5-21.7 clay as above
12				
13				
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19__
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR97424 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				21.7 & 25.0 Labradorean Till grey/beige silt & fine sand matrix supporting 70% volcanics + 30% sfanitoids, pebbly, coarsening downhole & coarse sand matrix supporting abundant clasts of 90% volcanics - 10% granites - abundant chloritized clasts, some sheared, coarse pyrite in volcanic cobbles - becomes cobble clast supported by 23.1. 24.4 - 24.6 and 24.7 - 24.8: chloritized boulders, probably nearly in place.
22			01	
23			02	
24			03	
25			04	
26				
27	EOH 26.5 88'			25.0 - 26.5 Bedrock medium green-blue foliated basalt - highly chloritized - unfoliated, equigranular interlocking - abundant quartz eyes - weakly foliated
28				
29				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 13/03 19 97 | HOLE NO RR97 425 | LOCATION _____ | ELEVATION _____

GEOLOGIST Ansil | DRILLER Lapault | BIT NO CB71274 | BIT FOOTAGE 863 – 978

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE 3:00 – 3:20

DRILL 3:20 – 5:00

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE 5:00 – 5:30

pg 1 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0 - 0.4 Organics
				0.4 - Layered - Kewatin Till and Lake Agassiz Sediments
				0.4 - 2.0 Till: oxid. gel. beige, gritty matrix, 1% b/pebbles.
				2.0 - 5.7 clay, massive non-gritty grey clay
				5.7 - 21.8 Till: grey clayey matrix with variable abundance of grit - pebbles, clay interbeds - 15.4 - 15.7, 18.1 - 18.4
				21.8 - 22.4 clay as above
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19__
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR97 425 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				22.4 - 26.9 Laharadorian Till
22				22.4-22.9 till: unsorted grey beige silt & fine sand matrix supported with 90% volcanic + 10% granitoids & cobbly
23			N: 01	22.9 - 23.2 boulder: ultramafic with sulphides
24			N:	23.2 - 23.6 till: as above
25			C2	23.6 - 24.0 boulder: tonalite
26			C3	24.0 - 26.8 till: 2 cycles: 24.0 - 25.4, 25.4 - 26.8: grey beige silt fine sand matrix supporting clast of composition 80/20, pebbly zone pyritic cobbles grading down to near clast supported 90/10: volcanics/granitoids becoming cobble clast supported at base with volcanics decreasing to 60% abundant light green sheared clasts at 26.6
27			04	
28				
29	EOH 95'		28.5	26.8 - 28.5 Bedrock
30				light green sheared volcanic - probably sheared equivalent of bedrock in 424
11				- lineated, foliated, sheared
12				- sub-schistose, chloritized
13				- tourmaline needles parallel & sub-parallel to lineations
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 14/3 1997
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR97-426 LOCATION _____ ELEVATION _____
GEOLOGIST Ansell DRILLER Legault BIT NO CB71274 BIT FOOTAGE 978 -
MOVE TO HOLE 8:30 - 8:45
DRILL 8:45 - 10:00
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE 10:00 - 11:00

pg 1 of 1

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0-0.6 Organics soil.
2				0.6-17.1 Layered Keewatin till and Lake Agassiz sediments
3				0.6-4.8 clay: massive non-gritty clay, oxidized to 2.2 grading to slightly below.
4				
5				4.8-17.1 clay till clay, as above interbedded with clay till with a grey clay matrix of parallel systems with sparse 1% to pebbles ending with a clay layer
6				
7				
8				
9				
10				17.1-18.4 Labradorian Till
11				till, unsorted grey layer silt & fine sand matrix supporting clasts of composition 60% volcanics & 40% granitoids, pebbly grading down hole to cobble clast supported matrix deficient till by 17.7, clast composition > 90/10: volcanics to granitoids, chloritic clasts, pyrite
12				
13				
14				
15				
16				
17				
18			01	18.4-20.0 Bedrock
19			02	light grey and blackish volcanic - well foliated, strongly banded - sub-schistose, silicified - tourmaline needles sub-parallel to lineation, pyrite stringers - minor chlorite
20				

ECH
20 m
68'

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 14/3 19 97
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR97427 LOCATION _____ ELEVATION _____
GEOLOGIST Arnold DRILLER Legault BIT NO. CB71309 BIT FOOTAGE 0-52
MOVE TO HOLE 10:00 - 11:00
DRILL 11:00 - 12:00
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE 12:00-12:15 Hole plugged - 1 bag

pg 1 of 1

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1	^^ ^^ / C			0-0.8 Organics sock.
2	/ \			0.8-12.7 Elevation Till
3	/ \			0.8 5.9 gritty clay rich matrix with 1% sub pebbles oxidized beige grading downhole to grey by 3.4
4	/ \			5.9-8.1 grit sparse, pebbles 1%
5	/ \			8.1-12.0 grit abundance variable
6	/ \			12.0-12.7 clay non gritty grey clay
7	/ \			12.7-14.1 Labradorian Till
8	/ C			unsorted grey beige silt to fine sand matrix supporting clasts, pebbles of composition 60/40: volcanics/granitoids grading downhole to cobble clast supported, volcanic component increasing to 90% sheared clasts, pyrite in matrix bottom
9	/ \			
10	/ \			
11	/ \			
12	/ \			14.1 - 15.6 Bedrock
13	/ \		01	light grey to light green sheared volcanic - subschistose, lineated - pyrite stringers <1% - no tourmaline, no calcite - chlorite content increases downhole from trace to 20% by end of section - fabric remains constant - 1st 0.5m may be a sheared rhyolite & could be an inclusion, however no breccia was observed
14	/ \			
15	/ \		02	
16	ECH 15.6m 52'			
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 14/3 1997
SHIFT HOURS
____ TO ____
TOTAL HOURS
____
CONTRACT HOURS
____

HOLE NO RR97-42E LOCATION ____ ELEVATION ____
GEOLOGIST Averill DRILLER Legault BIT NO. CB71309 BIT FOOTAGE 52-117
MOVE TO HOLE 1200-1215
DRILL 1215-200
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE 200-215 hole plugged - 1 day

pg 1 of 1

DEPTH IN METRES	SAMPLE NO.	DESCRIPTIVE LOG
0		0-0.5 Organics soil
1		0.5-16.9 Layered Keewatin Till and Lake Agassiz Sediments
3		0.5-5.6 till: gritty clayey-silt matrix with 1% pebbles, oxidized beige to 2.3, grey below, clay interbed at 4.1
6		5.6-6.5 sand well sorted fine beige calcareous sand
7		6.5-8.6 till as above
8		8.6-9.0 clay: massive non gritty grey clay
9		9.0-10.1 sand as above with minor gravel at top of interval + silty grey clay seams near bottom
13		10.1-16.2 till grey clayey matrix with variable grit + pebble content
15		16.2-17.9 Labradorean Till unsorted grey beige matrix supporting 60% volcanics 40% granitoids, pebbly grading downhole to cobbly clast supported till with >90% volc. with sheared clasts, pyrite
17	01	
18		17.9-19.5 Bedrock medium green chlorite schist protolith probably basalt - well foliated and lineated - fine grained pyrite stringers - iron staining on slip planes - grades downhole to coarser grained (1-2 mm) less well foliated rock with quartz eyes
19	02	
20		EOH 19.5 65'

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 14/3 1997
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR97429 LOCATION _____ ELEVATION _____
GEOLOGIST Arnell DRILLER Logault BIT NO. CB71309 BIT FOOTAGE 117-192
MOVE TO HOLE 230-245
DRILL 245-430
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE 430-500 hole plugged - 1 log

pg 1 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0.0-0.4 Organics soil
2				0.4-15.9 Layered Keewatin Till and Lake Agassiz Sediments
3				0.4-5.6 till: gritty clay rich matrix with 1% pebbles, oxidized beige grading down hole to grey by 3.2m
4				
5				5.6-6.6 clay: massive, non-gritty grey clay
6				6.6-15.7 till as above, variable grit
7				15.7-15.9 clay: as above
8				15.9-20.7 Labradorean Till
9				unsorted grey beige to grey green silt to fine sand matrix, rare clast to clast supported, pebbly to cobbly, clast composition 60% volcanics 40% granitoids, till is uniform in character to 19.0m becoming very cobbly below 19.0 * sheared clasts appear by 19.8 some pyritic clasts throughout section.
10				
11				
12				
13				
14				
15				
16			01	
17			02	
18			03	
19			04	
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19__
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR 97-429 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0			04	20.7-22.5 Bedrock
1				pale green sheared volcanic
2			05	- sub schistose
				- foliated lineated
3				- 2-5% pyrite, disseminated and in stringers
4				- slip planes accentuated
5				- sericitized
6				- chlorite, epidote
7				- weathered interval at 21.9 no change in appearance of rock.
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

EOH 22.5 75'

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 15/03 1997
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR97 430 LOCATION _____ ELEVATION _____
GEOLOGIST Ansell DRILLER Ligault BIT NO. CB 41301 BIT FOOTAGE 192 - 282
MOVE TO HOLE on hole
DRILL 8:30 - 10:30
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE 10:30 - 11:15

pg 1 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1	^^			0 - 1.1 Organics soil
2	^^			1.1 - 21.2 Raymond Kelvington Dillon Lake Agassiz sediments
3	/ 0 \			1.1 - 5.4 till gritty clayey matrix oxidized, beige grading downhole to grey by 4.4
4	/ \			5.4 - 6.9 sand fine beige calcareous sand well sorted with grey silty clay seams
5	/ \			6.9 - 19.5 till: very clay rich matrix to 16.8 with gritty interbeds of fine sand 11.6 - 12.0 - 13.0 - 13.7 sand as above
6				15.0 - 15.2 - gravel and sand fine gravel, 10/10/80: volcanics / granitoids / pebbles + sand as above.
7	/ 0 \			16.8 - 19.5 till uniformly gritty
8	/ \			19.5 - 21.3 clay massive non-gritty grey clay with occasional till interbeds
9	/ \			
10				
11	/ 0 \			
12	/ \			
13	/ 0 \			
14	/ \			
15	/ 0 \			
16	/ \			
17	/ \			
18	/ 0 \			
19	/ \			
20	/ \			

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19 __
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR97430 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				21.2-24 Labradorian till and glaciofluvial sediments
22			01	21.2-21.4 sand well-sorted grey brigh sand with mica flakes
23				21.4-22.2: unsorted grey to grey green silt & fine sand matrix supporting clasts of composition 90% volc. & 10% granites. Abundant clasts, pebbly, some cobble-
24			02	
25				
26			03	22.2-24.4: highly matrix supported grading down through massive & clast supported coarse sand matrix, with sheared clasts at 24.0
27				
28	EOH 27 m 90'			traces of magnetic brassy mineral & abundant pyrite at 24.3 (pp c pn)
29				
30				
11				24.4-27.0 Bedrock
12				light green schist protolith probably intermed. volcanic
13				
14				very soft slow drilling very little +10 returns
15				∴ collected ~10 sample from #1 bucket (26-27m.)
16				- minor quartz vein
17				- tourmaline sub-millimetre
18				- 2-3% sulphides
19				- sheared, silicified
20				- foliated, lineated

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 15/3 19 97 | HOLE NO RR97431 | LOCATION _____ | ELEVATION _____

GEOLOGIST Ansell | DRILLER Legault | BIT NO. CR71309 | BIT FOOTAGE 252 - 387

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE 10:30 - 11:15

DRILL 11:15 - 1:00

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE 1:00 - 1:45

Hole plugged - 1 bag

pg 1 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0 - 0.5 Organics soil
2	10			0.5 - 25.4 Layered Kewatin till and Lake Agassiz Sediments
3				0.5 - 1.8 clay massive, non-gritty grey clay
4				1.8 - 4.4 till: gritty clay matrix with beige grit & pebbles
5	10			4.4 - 7.4 clay + sand: silty grey clay interbedded with fine beige sand thickness of beds and laminae may be interbedded coarse & fine till units grit 10% sand 10% gravel 80% mud.
6				
7	10			
8	10			7.4 - 11.2: till as above 1.8 - 4.4
9				11.2 - 14.8: till + sand: silty clay till with sand interbeds
10	0			14.8 - 20.0: till: dense grey clay matrix with sparse grit, interbedded with soft gritty clay till
11				
12	10			20.2 - 25.4 till + clay: dense grey clay till + massive grey non gritty clay, ending in clay. 25.1 - 25.4
13				
14				
15	10			
16				
17				
18	4			
19	0			
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19__
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR92 431 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

pg 2 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				25.4-28.9 · Labradorian Till
22				25.4-26.2 sand: well sorted grey beige fine sand with minor pebbles, grading down to till
23				26.2-28.9 till: unsorted, grey beige matrix supporting clasts of composition 90% volcanic, 10% granitic pebbles near clast supported down hole, occasional coarse biased matrix, abundant supply-aquifer pervasive clasts and numerous pyritic clasts, some coarse pyrite near bottom of interval
24				
25				
26			01	
27				
28			02	
29				
30			NS	28.9-30.1 Basalt boulder: weak foliation, interlocking granular, a few chips in bedrock mat.
31			03	
32	EOH			30.1-31.5 Bedrock
33	31.5 105'			grey intermediate volcanic - v. fine grained to aphanitic - weakly foliated - chloritized - tourmaline needles - 1% disseminated pyrite - silicified.
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 15/3 1997 | HOLE NO RR97432 | LOCATION _____ | ELEVATION _____

GEOLOGIST Arnell | DRILLER Legault | BIT NO. CB71309 | BIT FOOTAGE 367-505

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE 100 - 145

DRILL 145 - 430

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE 430 - 530

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0-0.6 Organics soil
2				0.6-27.8 Layered Kewatin Till and Lake Agassiz Sediments
3				0.6-2.9 till: oxidized beige, gritty clay rich matrix with 1% b pebble
4				2.9-4.1 clay: massive, non gritty grey clay
5				4.1-6.1: till as above but matrix now grey, trace of sandy seams
6				6.1-9.7 clay + till as above, interbedded
7				9.7-23.6 till: massive slightly gritty clayey matrix with sparse grit with frequent thin gritty interbeds, sand & some clay intervals
8				
9				
10				
11				23.6-24.0: Boulder
12				24.0-25.8: till as above
13				25.8-26.8 clay as above
14				26.8-27.8 sand: fine beige calcareous sand with increasing grey component down hole - grades into Labradorean
15				27.8-33.8 Labradorean
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19__
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RRG7 432 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

pg 2 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				27.8-33.8 Labradorean Till.
22				cyclical - 3 cycles observed.
23				27.8-29.0 unsorted grey beige matrix supporting clasts of composition 50% volcanics, 50% granite pebbles + cobbles - grading down interval to near clast supported + 60/40 by 28.0 m.
24				
25				
26				
27				29.0-31.3 matrix supported, clast composition 90/10 grading down to 60/40 by 31.6 / matrix grey silt to fine sand becoming sparse + till stony clast supported at bottom of interval.
28			01	
29				
30			02	
31			03	31.3-33.8 third cycle - begins with a well sorted fine to medium sand layer, 31.3-31.9, grading down to a matrix supported to clast supported till, clast composition 60/40 pyrite cobbles at 33.6, increasing sheared clasts below 33.6 m
32			04	
33			05	
34			06	
35	EOH 34.5 115'			33.8-34.5 Bedrock
36				sheared light-grey rhyolite
17				- weakly foliated, fine grained
18				- weakly sheared
19				- 1% pyrite stringers
20				- minor iron staining of feldspars
				- may have blue quartz eyes
				- trace of green acicular grains of amphibole (?)

@ 34.2 m rods were becoming bound by stony till they were pulled to 28.5 m in an attempt to loosen the hole. The till again bound the rods on the second attempt. ∴ the hole was ended at 34.5.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 16/3 1997

SHIFT HOURS

______ TO ______

TOTAL HOURS

______

CONTRACT HOURS

______

HOLE NO RR97-433 LOCATION ______ ELEVATION ______

GEOLOGIST Ansell DRILLER Legault BIT NO CB71317 BIT FOOTAGE 0 - 98'

MOVE TO HOLE on hole

DRILL 8:30 - 12:00

MECHANICAL DOWN TIME ______

DRILLING PROBLEMS bit plugged at bedrock interface pulled [illegible]

OTHER - lost last rod + bit + sub in hole, stripped [illegible]

MOVE TO NEXT HOLE 12:00 - 12:05

pg 1 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
0–20				0-0.4 Organics soil 0.4-23.5 Layered Keewatin Till and Lake Agassiz Sediments 0.4-2.8 Till: very gritty oxidized beige clay & fine sand matrix with 5% limestone pebbles matrix colour grey beige by 2.1 2.8-4.4 clay: massive, non gritty grey clay 4.4-14.9 till: as above interbedded with soft grey clay and fine sand grit content of till and sand content of clay decrease downward and interval grades into a dense grey clay rich till with sparse grit [illegible] by 12.8 14.9-15.7 sand: well sorted fine beige calcareous sand with minor pebbles at top of interval [illegible] grey silty clay [illegible] throughout 15.7-22.7 till: dense grey clay rich matrix with minor grit interbedded with non gritty grey clay - till becomes very gritty by 20.0 m with 1-2% ls pebbles. 22.7-23.5 clay as above						

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19 __

SHIFT HOURS
_____ TO _____

TOTAL HOURS
_____

CONTRACT HOURS
_____

HOLE NO RR97433 LOCATION _____ ELEVATION _____

GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____

MOVE TO HOLE _____

DRILL _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

pg 2 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				23.5-29.5 Labradorian Till
22				4 cycles of stony till
23				23.5-26.3: unsorted grey silt & fine sand matrix, clast supported, clast composition 90/10 volcanic clasts/ granite pebbles, cobbly, pyritic 25.0m: matrix coarse, biaxial, clast supported 95/5
24			01	
25				
26			02	26.3-27.6: till matrix as above supporting clasts of composition 95/5 changing rapidly & 85/15 with red granite cobbles and back to 95/5 at bottom of interval - till support changes, with clast composition & pebble + cobble supported by 26.6, matrix coarse biaxial very pyritic clasts @ 27.2 +.
27			03	
28				
29			04	27.6-28.4: clast composition 95/5 throughout interval support changes rapidly from matrix back & clasts, cobbly
30	ECH 29.5 98'			28.4-29.5 interval as above from 26.3-27.6 with abundant white sericitic clasts.
11				29.5 white rock flour as return - pulled rods to check bit - last rock bit sub left in hole, threads on bottom of 2nd stripped
12				till very stony with abundant water made drilling slow + difficult
13				moved 15' east & 433A & finished hole
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19__
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR97-433A LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

pg 2 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				23.9 - 31.3 Labradorian Till
22				23.9 - 29.5 as in 433 from 23.5 to 29.5m with brief matrix supported interval at 25.1
23				29.5 - 31.3: abundant light grey sericitized volcanic clasts, till clast supported, pebbly to cobbly matrix coarse biaxial, clast composition 95/5, abundant pyrite clasts at 29.7
24				
25				
26				
27				31.3 - 32.6: Bedrock
28				light grey sheared volcanic - rhyolite a bleached andesite.
29				- 5% pyrite - disseminated and stringers
30				- sericitized
31			01	- foliated lineated
32			02	- sub schistose
33	EOH 32.6 108			- fine grained
34				- trace of chlorite
15				5% overburden contamination in bedrock sample was washed in by abundant water from aquifer rock binding badly at 32.6 : broken shale
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 16/3 19 97 HOLE NO RR-97433A LOCATION 15'E of 433 ELEVATION _____

GEOLOGIST Ansell DRILLER Legault BIT NO. CB71269 BIT FOOTAGE 0 - 108

SHIFT HOURS _____ TO _____

MOVE TO HOLE 12:00 - 12:05

DRILL 12:05 - 3:00

TOTAL HOURS _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS ~~stony~~ till, abundant water - caused slow, diffic drilling.

CONTRACT HOURS _____

OTHER _____

MOVE TO NEXT HOLE 3:00 - 3:30 hole plugged - 1 bag

pg 1 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0-0.4 Organics - soil
2				0.4-23.9 Layered Kewatin till + Lake Agassiz sediments as in 433 - not logged as drilled
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 16/03 19 97
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO BR97-434 LOCATION 4W 300S ELEVATION ____
GEOLOGIST Ansell DRILLER Leggett BIT NO. CB71269 BIT FOOTAGE 108-231
MOVE TO HOLE 3:00 - 3:30
DRILL 3:30 - 5:00
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE 8:00 - 8:30 (17/03/97) hole plugged - log

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				0-0.6 Organics - soil.
				0.6-31.4 Layered Laurentian Till and Lake Agassiz Sediments
				0.6-2.6 till: oxidized beige gritty and clayey matrix with 5% limestone pebbles
				2.6-4.9 clay: massive, non gritty grey silty
				4.9-23.8 till: as above matrix colour grey beige, gritted pebble content decreases down hole to sparse abundance from 14.0 to 18.7 with clay interbeds between 15.0 & 18.7. Gritty again below 18.7
				23.8-27.1 sand: well-sorted beige calcareous sand with grey silty clay seams till interbeds and pebbles at 25.8.
				27.1-31.4 clay: massive grey non-gritty clay to 27.8 with till to 28.6, clay and silt below - possibly varves.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19__
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR97 934 LOCATION _____ ELEVATION _____
GEOLOGIST Ansell DRILLER Ziganek BIT NO. CB7/269 BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

pg 2 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				31.4 - 35.7 Labradorean Till
22				3 cycles of till pro- matrix supported to clast supported and back
23				31.4 - 33.8 : grey silt and fine sand matrix supporting clasts of composition changing rapidly to clast supported 85/15 volcanics / granitoids pebbly & cobbly by end of cycle 95/5
24				33.8 - 35.4 as above
25				35.4 - 35.7 : abundant coarse buried near clast supported rapidly becoming cobble clast supported.
26				
27				
28				35.7 - 37.2 Bedrock
29				light grey intermediate volcanic
30				- bleached
31				- unbanded
32			01	- fine grained interlocking granular & aphanitic
33				- felsic groundmass with trace of chlorite
34			02	- 2% pyrite, no calcite
35			03	- no foliation or lineation
36			04	
37				
38	EOH 37.2 123'			
39				
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 12/3 19 97

SHIFT HOURS ______ TO ______

TOTAL HOURS ______

CONTRACT HOURS ______

HOLE NO RR97-435 LOCATION 2W 400S ELEVATION ______

GEOLOGIST Ansell DRILLER Legault BIT NO. CB71269 BIT FOOTAGE 231-294

MOVE TO HOLE 8:30 - 9:30

DRILL 9:30 - 11:00

MECHANICAL DOWN TIME ______

DRILLING PROBLEMS ______

OTHER clean mud tanks

MOVE TO NEXT HOLE 11:00 - 12:15 hole plugged - 1 log

pg 1 of 1

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0–17				0-0.4 Organics soil 0.4-17.0 Layered Keewatin Till and Lake Agassiz Sediments interbedded sequence of till and clay; beginning with till with an oxidized beige gritty and clayey matrix with 2% to pebbles, followed by a non-gritty grey clay sequence from 1.4-3.2. Gritty Till below 3.2 has a grey beige matrix with variable grit content with sparse grit + pebbles 9.2-11.8. location of clay interbeds noted on graphic log 17.0-17.4 Labradorean Till matrix grey silt to fine sand but coarse biased on clast supported structure with composition 95% andesite with granite + basalt pebbles 17.4-19.0 Bedrock pale grey andesite/dacite - fine grained interlocking granular to aphanitic - 5% pyrite - some weak foliation, lineation - quartz eyes, some cloudy feldspar - unsheared - Trace of chlorite, possibly Tourmaline
17			01	
18			02	
19–20	EOH 19 m 63'			Hole washed down, after bedrock was drilled, to obtain more sample.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 17/03 1997

SHIFT HOURS ____ TO ____

TOTAL HOURS ____

CONTRACT HOURS ____

HOLE NO RR97 436 LOCATION Taylor field ELEVATION ____

GEOLOGIST Ansell DRILLER Legault BIT NO LB7/269 BIT FOOTAGE 294-357

MOVE TO HOLE 11:00 - 12:15 -

DRILL 12:15 - 2:30

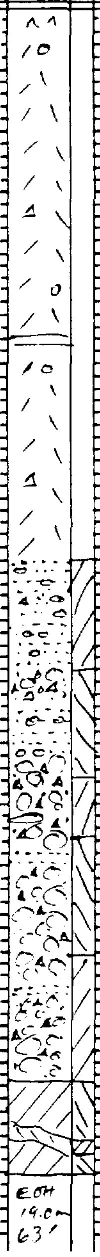
MECHANICAL DOWN TIME ____

DRILLING PROBLEMS hole located near gravel pit; poor seal

OTHER losing water + flushing away matrix

MOVE TO NEXT HOLE 2:30 - 245

pg 1 of 1

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0–20		9.0–19.0	01 (10), 02 (12), 03 (13), 04 (14.5), 05 (16.5), 06 (18), 07, 06 (18.7)	see below

0-0.4 Organics soil.

0.4-9.0 Keewatin Till

gritty, clayey matrix with 2% pebbles, oxidized beige grading to grey beige by 4.4 minor massive non-gritty grey clay interbed at 5.4

9.0-17.5 Labradorean Till + Glaciofluvial Sediments

: see note above; may be 4 cycles

9.0-10.7 sand + gravel

moderately sorted beige non-calcareous coarse sand with pebbles, 50% volcanic: 50% gran. sand becomes finer down hole with trace of till matrix at 9.7 m

10.7-11.3 till: unsorted beige silt and fine sand matrix probably matrix supported but return too poor to be certain; clast composition 60/40 with some pyritic cobble.

11.3-12.1 sand + gravel as above

12.1-17.5 till: as above with more granitic clasts and pebbles. some andesite cobbles with a trace of pyrite (11.1)(15.5) and sheared clasts (13.2) trace of sandy seams at 13.8 + 16.0

17.5-19.0 Bedrock

light grey andesite/dacite

- fine grained interlocking, sugary
- minor pyrite, no calcite
- unsheared.
- weak foliation, lineation

18.2-18.4: barren quartz vein material and veinlets of abundant sulphides

EOH 19.0m 63'

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 17/3 19 97
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR97 437 LOCATION Eagles' Field ELEVATION ____
GEOLOGIST Arnell DRILLER Legault BIT NO. CR71269 BIT FOOTAGE 357-431
MOVE TO HOLE 230 - 245
DRILL 245 - 415
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER change elbow & cyclone @ 20.5
MOVE TO NEXT HOLE 415 - 430

pg 1 of 1

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				0-0.6 Organics
				0.6-19.1 Layered Keewatin till and Lake Agassiz sediments
				0.6-11.9 till: gritty clay rich matrix supporting 2% limestone pebbles. Solidified beige grading to grey beige by 4.1. very clay rich interval between 5.2 & 9.4 with few pebbles. Sparse grit again below 10.0 grading to clay by 11.9
				11.9-13.1 clay: massive grey non-gritty clay with fine sand interbeds with some lg. pebbles.
				13.1-18.2 till: clay rich matrix with sparse grit & pebbles
				18.2-19.1 clay: soft grey clay with fine sand interbeds
				19.1-20.1 Labradorean till mounted silt & fine sand matrix supporting clasts of composition 60/40 with undigested andesite cobbles & red granite pebbles rapidly becomes clast supported
				20.1-22.3 Bedrock
				20.1-21.3 light grey to light green andesite - fine grained interlocking granular - unsheared - trace blue quartz eyes - some limonite weathering - kaolinized feldspar - chlorite, no py. or calcite
				21.3-22.0 porphyritic andesite white and pink feldspar crystals 4-5 mm in green matrix
				22.0-22.3 andesite, as above
19				
20		20.0 CASING 20.0	01	
21			02	
22.3			03	
22			02	

EOH 22.3

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 17/3 1997
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR97438 LOCATION Temples field ELEVATION ____
GEOLOGIST Ansell DRILLER Legault BIT NO CB71264 BIT FOOTAGE 431-496
MOVE TO HOLE 4:15 - 4:30
DRILL 4:30 - 5:45
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE 5:45 - 6:00 to Hwy 600 to wait for float

pg 1 of 1

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				0 - 0.9 Organics: soil
				0.9 - 14.0 Recent till and ? abs. Cigassiz sediments
				0.9 - 3.6 till oxidized beige-grey, clayey matrix with 10% limestone pebbles
				3.6 - 12.1 till grey clay rich matrix with sparse grit and pebbles
				12.1 - 13.4 clay: massive non-gritty grey clay with no pebbles
				13.4 - 14.0 till as above
				14.0 - 17.5 Labradorean Till, unsorted beige & grey-beige silty-fine sand matrix, clast composition changing down hole from 70/30: volcanics/granite to 30/70 below 15 m some red granite pebbles, cobbles; near clast supported, till character fairly uniform throughout interval, abundant supply - abundant fine pyrite in matrix
				17.5 - 19.5 Bedrock
				light grey rhyolite or bleached andesite fine grained interlocking granular & aphanitic ? weakly foliated minor chlorite ox pyrite or calcite
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15			01	
16			02	
17			03	
18				
19			04	
20	EOH			

145
65'

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE March 20 19 97
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR-97-444 LOCATION Crawford Property ELEVATION _____
GEOLOGIST P. Collins DRILLER R. Legault BIT NO. CB71270 BIT FOOTAGE 68.0-101.1
MOVE TO HOLE 8:00 - 8:45
DRILL 8:45 - 12:00
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

Pg. 1 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0.0 - 3.0 organics - Peat moss
2				3.0 - 6.0 Lake Agassiz Sediments
3				alternating grey & beige (organic rich) smooth, non gritty clay beds occasional silt varves
4				6.0 - 23.0 Keewatin Till
5				beige (slightly oxidized) gritty clay rich matrix ~10% beige very fine sand & silt. Upto 10% pebble clasts - dominantly limestone
6				(9.0 - 23.0) clay till : grey, very slightly gritty & non gritty clay matrix. Sparse limestone & mudstone clasts, <3%
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE March 20 19 97
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR-97-444 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				23.0 - 27.4 Lake Agassiz Sediments
22				(23.0 - 25.2) clay/silt : pale greenish grey smooth - nonsilty clay - appears to be varved, occasional thin very fine sand silt beds.
23				
24				(25.2 - 27.4) sand : grey beige ; poorly sorted very fine to fine grained sand.
25				
26				27.4 - 29.8 Labradorean Till gradational contact to grey beige silt to fine sand + ~30% pale khaki to bluish green saprolite clay lumps. Pebble and small cobble clasts consisting mainly of basalt (well foliated, partially clay altered) 65% & 35% rocks + granitoids
27				
28		01		
29		02		(28.4 - 29.1) sand : poorly sorted beige silt very fine & fine grained sand.
30				
31		03		(29.1 - 29.7) till : similar to 27.4 - 28.4 with khaki to brown clay lumps in matrix (40%)
32		04		
33				29.7 - 31.0 Bedrock Basalt (clay altered)
34				- bluish mottled green bleached in places - nearly white
35				- returns are competent yet clay altered chips, also pale clay & lumps in places.
36				- Advanced botryoidal siderite especially clay rich zones (up to 10% + places)
37				- moderate to strongly foliated
38				- trace calcite
39				- fine grained
40				- no visible copper.

31.0 - 31.7 - blue green clay - mainly washing away - little return
31.7 - 31.3 - brownish khaki coloured clay - good return
31.3 - 33.1 blue green semi competent rock chips similar to 29.7 - 31.0 rarely more strongly clay altered - no visible copper
- most of sample washing away - collect fine sample bucket.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 20/3 1997 — HOLE NO RR97-445 — LOCATION Crawford prop. — ELEVATION ____

GEOLOGIST Arnell — DRILLER Legault — BIT NO CR7127C — BIT FOOTAGE 101.2 - 184.2

SHIFT HOURS ____ TO ____

MOVE TO HOLE 11:45 - 12:00

DRILL 12:00 - 1:15

TOTAL HOURS ____

MECHANICAL DOWN TIME ____

DRILLING PROBLEMS ____

CONTRACT HOURS ____

OTHER ____

MOVE TO NEXT HOLE 1:15 - 1:30

pg 1 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
				0 - 3.1 Organics peat
				3.1 - 17.4 Layered Keewatin till and Lake Agassiz Sediments
				3.1 - 5.6 till: oxidized beige very gritty clayey matrix with 10-15% limestone pebbles
				5.6 - 6.5 till: grey clay rich gritty matrix with <1% limestone pebbles
				6.5 - 8.2 Till: compact grey clay rich matrix with sparse grits limestone pebs. some non gritty grey clay interbeds
				8.2 - 14.1 clay: massive non-gritty grey clay, no pebbles with sandy interbeds
				14.1 - 15.4 till: as above 5.6-6.5
				15.4 - 17.4 clay: soft, non-gritty grey - grey clay with minor beige silt - may be varved.
				17.4 - 22.8 Lake Agassiz - Labradorean Sediments
				sand: moderately sorted grey beige medium sand with 10% calcite trace volcanic - granitic pebbles. grades down to fine sand - silt by 20.0

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19__
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR97445 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–5			01, 02	22·8-23·6 Labradorian Till unsorted grey beige silt to fine sand matrix supporting 90% volcanic clasts + 10% granite pebbles becoming matrix-clast supported by end of interval; trace of sedimentary clasts, trace of pumiceous, tan & blue holocrystalline clasts 23·6-25·1 Bedrock weakly sheared basalt - foliated with patches of strong lineation - trace of fine pyrite, no calcite - may be plagioclase porphyritic - no copper observed, no saprolite - easy drilling, abundant chips.
25·1 EOH 83'				
6–20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE March 20 19 97
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR-97-446 LOCATION _____ ELEVATION _____
GEOLOGIST P. Collins DRILLER R. Legault BIT NO. CB71270 BIT FOOTAGE 184.2-212.2
MOVE TO HOLE 1:15 - 1:30
DRILL 1:30 - 3:15
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0.0 - 3.0 organics - Peat moss
2				3.0 - 3.4 Clay: grey smooth non gritty clay
3				3.4 - 19.8m Keewatin Till
4				beige to light ochre (oxidized) gritty clay matrix. Up to 10% limestone pebbles in place
5				
6				
7				(7.0 - 19.8) grey, slightly gritty & non gritty clay matrix, Sparse pebble clasts - limestone and sandstone.
8				
9				
10				- below 16.0 m occasional thin till layer that is more clast rich with gritty matrix.
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE March 20 19 97
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-97-446 LOCATION _____ ELEVATION _____
GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				19.8 – 22.2 Lake Agassiz Sediments clay-silt grey, soft smooth non gritty clay with lesser silt varves
22				
23				22.2 – 22.5 Keewatin Till clay till similar to 3.4-3.0
24			01	
25			02	22.5-23.3 Lake Agassiz Sediments sand: poorly sorted beige fine grained sand.
26			03	23.3-26.3 Labradorean Till matrix supported grey beige silt to fine sand. Cobble clasts of composition: 70% volcanics & sediments; 30% granitoids.
27			04	
28				26.3-28.0 Bedrock basalt-saprolite
29				26.3- - mainly blue green saprolite chips! very few competent chips.
30				- at 26.7- Few subcangular clay altered basalt chips with trace of fine disseminated pyrite - no observable copper.
31				
32				28.0 E.O.H.
33				
34				
35				
36				
37				
38				
39				
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE March 20 1997
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR-97-447 LOCATION _____ ELEVATION _____
GEOLOGIST P. Collins DRILLER R. Legault BIT NO. CB71313 BIT FOOTAGE 0.0 – 19.0
MOVE TO HOLE 3:15 – 3:40
DRILL 3:40 – 5:30
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20			01, 02, 03	0.0 – 3.5 organics Peatmoss 3.5 – 4.8 Lake Agassiz Sediments beige to grey smooth non gritty clay. 4.8 – Keewatin Till beige to light olive gritty clay rich matrix. up to 10% limestone pebble clasts. (7.0 –) till grey very slightly gritty / non gritty clay rich matrix. Rare limestone pebble clasts. 14.0 – 15.0 Lake Agassiz Sds grey soft, non gritty clay. 15.0 – 17.0 Labradorean Till grey beige silt to fine sand with up to 20% khaki coloured clay lumps. Cobble clasts of composition: 65% volcanics / sediments; 35% Granitoids. 5-10% of volcanics / seds are weakly pyritic. 17.0 – 19.0 Bedrock siltstone/greywacke - dark grey. fresh not clay altered - very fine / fine grained - granular text. silty in places - weak to moderately foliated unsheared - trace py. smeared along slip-bedding planes - non calcareous

19.0 E.O.H.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE March 21 19 97

SHIFT HOURS
____ TO ____

TOTAL HOURS
____

CONTRACT HOURS
____

HOLE NO RR-97-448 LOCATION Crawford Property ELEVATION ____

GEOLOGIST P. Gallin DRILLER R. Legault BIT NO. CB71313 BIT FOOTAGE 28.0 - 96.7

MOVE TO HOLE 8:15 - 9:00

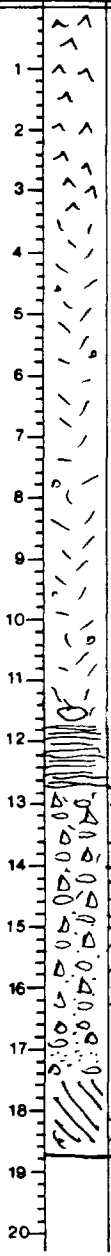
DRILL 9:00 - 10:40

MECHANICAL DOWN TIME ____

DRILLING PROBLEMS ____

OTHER travel 7:30 - 8:15

MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20			01 02 03 04 05	0.0 - 3.5 organics Peat moss 3.5 - 11.7 Keewatin Till beige to light olive gritty clay matrix. 5 to 10% pebble clasts dominantly limestone (6.5 - 11.7) clay till: very slightly gritty to non gritty clay matrix Sparse pebble - limestone clasts. at 11.5 limestone cobble 11.7 - 12.6 Lake Agassiz Sed grey, soft non gritty smooth clay - granular where in places 12.6 - 17.4 Labradorean Till grey beige silt to fine sand with ~10% khaki coloured saprolite clay lumps in matrix Cobble clasts of composition: 55% volcanics and sedimetes (few of which are weakly pyritic 3%) / 45% Granitoids. - below 14.5 no clay in matrix sandier. - below 15.5 m occasional thin sorted medium to coarse sand bed. at 17.0 - 17.2 sand: sorted coarse grained sand bed with granules 17.4 - 18.7 Bedrock - pale buff grey green rarely mod. green - fine to medium grained - moderately foliated - unsheared - slow drilling - not clay altered. - occasional more mafic zones usually associated with rusty fractures - 1% qtz fragments in places - tuff texture? intermediate volc. tuff

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE March 21 19 97
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-97-449 LOCATION _____ ELEVATION _____
GEOLOGIST P. Collins DRILLER R. Layault BIT NO. CB71313 BIT FOOTAGE 41.7-71.7
MOVE TO HOLE 10:40-10:50
DRILL 10:50 - 1:00
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20			01, 02, 03	0.0 - 2.6 Organics Peat Moss 2.6 - 13.2 Keewatin Till beige to light ochre (oxidized) gritty clay matrix. 5% limestone clasts. 6.0 - 13.2 gray very slightly gritty & non gritty clay matrix. Rare pebble clasts - mainly limestone. 13.2 - 15.2 Lake Agassiz Sediments soft, non gritty, smooth clay 15.2 - 23.2 Laborador ice Till gray beige silt to fine sand with ~25% khaki & black green clay lumps in matrix Cobble clasts of composition: 55% volcanics & sediments; 45% granitoids - below 17.4 no clay in matrix

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE March 21 1997 | HOLE NO RR-97-449 | LOCATION _____ | ELEVATION _____

GEOLOGIST _____ | DRILLER _____ | BIT NO. _____ | BIT FOOTAGE _____

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE _____

DRILL _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21			03	21.8-22.0 Sand : sorted beige medium grained sand bed.
22			04	22.0 - 23.1 till : similar to 17.4 - 21.8
23			05	23.1-23.3 Till : abundance of saprolite clay lumps very few clasts visible. Gradational contact to saprolite bedrock.
24			06	Bdk saprolite
25			07	23.3 - 23.6 mainly return on beige coloured clay balls with streaked hematite stain and blue green in places.
26				23.6 - 24.0 chips to clay: brownish green clay altered matic volcanic + khaki brown clay (bdk vial) * BEDROCK VIAL 449-06
27				24.0 - 29.3 pale-bleached chips streaked with matic. chlorite simultaneous return on reddish brown clay & occasional blue green clay (not good return) * BEDROCK VIAL 449-07A
28				24.3 Basically blue green clay with chips then just competent bdk. chips. Mostly clay altered in places. matic volcanic - no visible Copper.
29				below 24.6m up to 25.1 qtz vein (anchor) no visible sulfide, comb texture a Cu associated. Getting some overburden clast comp contamination as well. * Bedrock VIAL 449-07B
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE March 21 19 97
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-97-450 LOCATION Crawford Property ELEVATION _____
GEOLOGIST P.Collins DRILLER R.Legault BIT NO. C671313 BIT FOOTAGE 71.7-83.7
MOVE TO HOLE 1:00-1:15
DRILL 2:15-4:00
MECHANICAL DOWN TIME 1:15-2:15 cylinder fell off → truck forward.
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0.0 - 1.0 organics - Rootmass
2				1.0-4.0 Keewatin Till beige to light olive gritty clay matrix. 5% limestone pebble clasts.
3				
4				4.0-4.7 grey very slightly gritty and non gritty clay matrix. Rare limestone pebbles.
5				
6				4.7 - 5.7 Lake Agassiz Sds greenish grey, smooth non gritty clay.
7			01	
8			02	5.7 - 10.4 Labradorean Till grey beige silt to fine sand matrix. Initially had up to 50% greenish blue saprolite clay lumps in matrix. Therafter % adj declined to 2-3% by 6.3m Cobble and small boulder clasts 60% volcanics & sediments; 40% granitoids.
9				
10			03	
11				
12			04	10.4 - 12.0 Bedrock 10.4-10.5 saprolite clay lumps biotite & blue green colored variety 10.5- return on clay altered chip. pale bluish green and rusty olive. Occasional qtz veinlet (Mesozoic) with associated siderite. No visible copper in chips
13				
14				
15				
16				
17				
18				12.0 E.O.H
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE March 21 19 97
SHIFT HOURS ____ TO ____
TOTAL HOURS ____
CONTRACT HOURS ____

HOLE NO RR-97-451 LOCATION ____ ELEVATION ____
GEOLOGIST P Collins DRILLER R Leggett BIT NO. CB7133 BIT FOOTAGE 837-1002
MOVE TO HOLE 4:00-4:15
DRILL 4:15-5:30
MECHANICAL DOWN TIME ____
DRILLING PROBLEMS ____
OTHER ____
MOVE TO NEXT HOLE ____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20			01, 02, 03, 04, 05	0.0 - 2.5 organics Peat moss 2.5 - 9.4 Keewatin Till beige to light olive gritty clay matrix. 5% limestone pebble clasts. (5.0 - 9.4) grey, very slightly gritty to non gritty clay matrix rare limestone pebble clasts. 9.4 - 15.0 Labradorean Till initial 0.3 m has ~80% khaki coloured gritty clay in matrix; thereafter, % age declines to 2-3% grey/beige silt to fine sand. Cobble clasts of composition: 55% Volcanics Sediments / 45% granitoid - below 12.0 m up to 25% gritty clay in matrix locally. 15.0 - 16.5 Bedrock - dark grey - v. fine grained - silty beds - weakly foliated - unsheared - inclusions 0.5% pinkish grey along bedding planes - non calcareous Meta sediment - siltstone.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE March 22 19 97
SHIFT HOURS
_____ TO _____
TOTAL HOURS
_____
CONTRACT HOURS
_____

HOLE NO RR-97-452 LOCATION Crawford property ELEVATION _____
GEOLOGIST P. Collins DRILLER R. Lagault BIT NO. CB31313 BIT FOOTAGE 101.7 -
MOVE TO HOLE 5:30 - 5:45
DRILL 5:45 -
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20			01, 02, 03, 04	0.0 - 0.8 organics 0.8 - 10.8 Keewatin Till beige to light olive gritty clay matrix pebble clasts 5-7% blue (5.0 - 10.8) grey very slightly gritty & non gritty clay matrix. Rare limestone pebble clasts. 10.8 - 12.3 Lake Agassiz Sediments greenish grey non gritty smooth clay & silt varves 12.3 Labradorean Till initial 0.3 m is blocky clay rich till. Thereafter, grey beige silt to fine sand with ~ 2-3% clay chips. Calcite clasts 55% Volcanics & sediments; 45% Granitoids. - below 15.5 gritty clay content of matrix gradually increased to approximately 80% in places by 16.0 m * Sample #03 is interrupted. 17.1 - 18.5 Bedrock - greenish grey - fine to med. g. - moderately foliated - granular sandy texture - not clay altered - non calcareous - no visible sulphides. Greywacke

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE March 22 19 97

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

HOLE NO RR-97-453 LOCATION 70m @ Est 444 ELEVATION _____

GEOLOGIST P. Collins DRILLER R. Legault BIT NO CB7163 BIT FOOTAGE 0.0-26.7

MOVE TO HOLE 10:15 - 11:30

DRILL 11:30 - 2:00

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

New Bit.

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1–20			01, 02, 02	0.0 - 3.5 Organics - peat moss 3.5 - 14.5 Kaowatin Till beige to light olive gritty clay matrix. 5-7% limestone pebbles. (7.0 - 14.5) grey very slightly gritty and non gritty clay matrix. Rare small limestone pebbles. occasional granitoid. 14.5 - 16.4 Lake Agassiz Sds Varved greenish grey non gritty smooth clay / silt 16.4 - 25.4 Labradorean Till initial 0.8 m very clay rich matrix. 80-90% khaki green gritty clay lumps. Cobble clasts of sedimentary: 65% volcanics & sediments / 35% granitoids. Thereafter matrix mainly silt to fine sand 3-5% clay balls. (18.0 - 18.4) sand: poorly sorted silty very fine grained sand. 18.4 - 19.0 till similar to 16.4 - 18.0 19.0 - 19.4 boulder - matrix volcanic

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Mar 22 19 97 HOLE NO RR-97-453 LOCATION _____ ELEVATION _____

GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE _____

DRILL _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21			02	21.0 - 22.0 sand pebbly and very fine (silty) sand with at 21.5 - 22.0 sorted medium to coarse grained sand.
2			03	
3			04	22.0 - till : nearly clast supported cobbly till. sandy matrix - no clay clast competent 65-70% volcanics / sed : 30-35% granitoid
4				
5			05	below 23.0 occasional thin sorted coarse sand bed.
6			06	24.3 - 24.6 boulder - granitoid
7				24.6 till : with up to 60% khaki gritty clay in matrix
8				at 25.0 - qtz vein + variety of saprolite clay colours & clasts probable gradational contact to true saprolite. Dry vein → probably air drilled
9				25.4 - 26.7 Bedrock
10				25.4 - 25.8 Saprolite - brown khaki saprolite clay with few competent chips - brownish clay altered visible siderite
11				25.8 - 26.7 mainly competent brown - khaki brown weathered basalt chips no visible copper. - 2-3% qtz veinlets (oxidised) - occasional clay rich zone - weakly hematized along fracture planes
12				
13				
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE March 22 19 97

SHIFT HOURS
_____ TO _____

TOTAL HOURS
_____

CONTRACT HOURS
_____

HOLE NO RR-97-454 LOCATION ~65m south of 444 access road ELEVATION _____

GEOLOGIST A Collin DRILLER R. Legault BIT NO CR7161/3 BIT FOOTAGE 28.3-

MOVE TO HOLE 2:00-2:15

DRILL 2:15

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				0.0 - 3.5 Organics Peat moss
1				3.5 - 5.0 clay: grey kaga. non gritty smooth clay
2				5.0 Kazwatin Till
3				beige-light to olive gritty clay matrix. 5% limestone pebbles
4				(8.0 -) grey, very slightly gritty and non gritty clay matrix, rare limestone pebbles
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Mar 22 19 97 — HOLE NO RR-97-454 — LOCATION _____ — ELEVATION _____

GEOLOGIST _____ — DRILLER _____ — BIT NO. _____ — BIT FOOTAGE _____

SHIFT HOURS _____ TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

MOVE TO HOLE _____

DRILL _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21–23				24.0 - 32.7 Lake Agassiz Seds (24 - 25.4) clay: smooth non gritty greenish grey clay
24–25				(25.4 - 28.0) sand/clay: grey poorly sorted very fine grained sand occasional thin mottled clay bed.
26–28				28.0 - 32.7 sand/gravel: mainly sorted beige coarse grained sand with rounded subrounded granule & pebble size beds. Clast composition 50% volcanics & seds 50% granitoids
29–30				32.7 - 33.2 Labradorean Till beige grey silt to fine sand matrix. Cobble clasts of composition: 65% volcanics & seds; 35% Granitoids
11–12			01	33.2 - 34.5 Bedrock
13			02	- medium green - fine - med. grained
14			03	- weakly clay altered - well foliated - main mafic is chlorite - no visible sulfides - non calcareous
15–20				Basalt

APPENDIX II

DETAILED GOLD GRAIN COUNTS
CALCULATED VISIBLE GOLD ASSAYS

Rainy River Project
Work Report
1997 Reverse Circulation Drill Data
Paul Jones, Project Geologist
August, 1997

OVERBURDEN DRILLING MANAGEMENT LIMITED

GOLD GRAIN SUMMARY SHEET

Sample No.	Number of Visible Gold Grains				Non-Mag Weight	Calculated PPB Visible Gold			
	Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
RR-97									
321-01	1	0	1	0	56.9	18	0	18	0
321-02	0	0	0	0	23.6	0	0	0	0
321-03	1	0	0	1	25.6	8	0	0	8
322-01	16	8	7	1	45.0	717	510	205	2
322-02	8	5	3	0	33.2	336	114	222	0
323-01	8	5	1	2	36.3	74	62	1	11
323-02	1	0	1	0	25.6	39	0	39	0
323-03	16	13	3	0	45.3	194	170	24	0
323-04	2	1	1	0	39.3	700	54	646	0
324-01	18	2	16	0	43.5	168	10	158	0
324-02	29	5	23	1	34.5	362	57	286	19
324-03	6	3	1	2	41.9	56	9	9	38
324-04	9	5	1	3	29.7	515	323	6	186
324-05	3	1	1	1	17.7	132	1	120	11
325-01	4	3	1	0	40.6	17	12	5	0
325-02	3	3	0	0	20.2	78	78	0	0
325-03	10	10	0	0	23.2	199	199	0	0
325-04	0	0	0	0	5.2	0	0	0	0
325-05	0	0	0	0	5.0	0	0	0	0
325-06	1	1	0	0	10.0	37	37	0	0
325-07	10	0	9	1	31.5	125	0	113	12
325-08	16	9	7	0	21.5	72	45	27	0
325-09	6	3	1	2	26.7	122	51	2	69
325-10	9	6	2	1	33.0	382	368	8	6
326-01	3	1	2	0	24.8	139	8	132	0
327-01	0	0	0	0	17.9	0	0	0	0
327-02	9	2	7	0	45.8	132	48	84	0
328-01	3	3	0	0	22.9	54	54	0	0
328-02	7	6	0	1	20.7	151	102	0	49
328-03	3	3	0	0	11.7	152	152	0	0
329-01	1	1	0	0	50.8	13	13	0	0
329-02	3	3	0	0	9.9	209	209	0	0
329-03	11	3	6	2	51.9	91	16	64	11
330-01	22	7	12	3	96.4	267	128	128	11
330-02	11	0	10	1	157.4	130	0	128	2
330-03	13	0	12	1	117.7	42	0	39	3
330-04	13	0	8	5	86.7	156	0	143	13
331-01	9	0	8	1	57.8	95	0	93	1
331-02	15	1	10	4	45.9	231	1	215	15
332-01	36	0	29	7	97.3	442	0	267	175
333-01	21	2	18	1	51.0	22176	22072	104	0
333-02	25	2	20	3	70.9	226	1	201	24
333-03	66	5	59	2	93.0	2188	19	2166	3
333-04	77	3	72	2	70.7	691	8	682	1
334-01	6	1	5	0	16.5	140	61	79	0
335-01	7	1	6	0	36.5	127	10	117	0

OVERBURDEN DRILLING MANAGEMENT LIMITED

GOLD GRAIN SUMMARY SHEET

Sample No.	Number of Visible Gold Grains				Non-Mag Weight	Calculated PPB Visible Gold			
	Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
RR-97									
335-02	12	0	12	0	25.7	172	0	172	0
335-03	16	2	14	0	49.4	60	8	52	0
336-01	29	1	28	0	56.2	73	3	69	0
336-02	19	3	13	3	36.8	188	59	114	15
336-03	9	2	7	0	27.9	541	67	474	0
336-04	13	0	11	2	57.4	100	0	87	13
337-01	1	0	1	0	6.3	59	0	59	0
337-02	7	0	7	0	35.3	468	0	468	0
337-03	5	1	4	0	55.0	552	545	6	0
338-01	3	3	0	0	44.7	58	58	0	0
338-02	0	0	0	0	35.6	0	0	0	0
338-03	6	2	3	1	31.7	165	44	109	12
338-04	3	1	2	0	14.2	289	269	19	0
338-05	0	0	0	0	16.8	0	0	0	0
338-06	3	1	2	0	33.9	148	146	2	0
338-07	9	2	7	0	32.1	102	7	96	0
339-01	5	0	4	1	49.0	38	0	30	8
339-02	11	0	11	0	44.0	212	0	212	0
339-03	39	5	31	3	89.2	230	46	171	14
339-04	2	1	1	0	27.3	78	55	23	0
339-05	50	4	46	0	87.3	982	22	960	0
339-06	9	0	8	1	26.0	350	0	342	7
339-07	12	2	10	0	28.9	622	559	64	0
339-08	10	1	8	1	30.9	182	94	65	24
339-09	16	4	12	0	52.9	68	45	22	0
340-01	2	0	2	0	43.6	2	0	2	0
340-02	1	1	0	0	42.7	1	1	0	0
340-03	10	0	8	2	37.6	218	0	210	7
340-04	6	0	5	1	54.1	73	0	66	7
340-05	5	0	5	0	36.9	8	0	8	0
340-06	4	0	4	0	34.1	21	0	21	0
340-07	18	6	12	0	52.1	1657	969	688	0
341-01	7	1	6	0	41.6	231	211	20	0
342-01	22	8	14	0	39.6	391	341	50	0
342-02	16	3	13	0	50.4	210	132	79	0
342-03	4	0	4	0	66.1	37	0	37	0
342-04	6	0	6	0	42.1	52	0	52	0
343-01	3	2	1	0	23.5	146	130	16	0
343-02	8	1	6	1	52.0	136	4	91	41
343-03	16	0	16	0	59.5	87	0	87	0
343-04	12	0	11	1	43.3	83	0	68	15
343-05	4	0	4	0	46.5	21	0	21	0
343-06	8	2	5	1	28.1	121	6	101	13
344-01	12	1	10	1	59.7	146	3	140	3
345A-01	2	0	2	0	42.9	13	0	13	0
345A-02	21	0	21	0	44.5	184	0	184	0

OVERBURDEN DRILLING MANAGEMENT LIMITED

GOLD GRAIN SUMMARY SHEET

Sample No.	Number of Visible Gold Grains				Non-Mag Weight	Calculated PPB Visible Gold			
	Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
RR-97									
346-01	127	3	108	16	132.7	276	92	176	8
347-01	41	4	34	3	79.8	137	26	106	6
348-01	6	1	5	0	22.4	51	17	35	0
349-01	0	0	0	0	19.5	0	0	0	0
350-01	4	3	1	0	30.5	33	21	12	0
352-01	5	1	4	0	26.5	21	1	20	0
353-01	1	0	1	0	21.5	4	0	4	0
353-02	18	6	11	1	34.6	232	168	62	2
353-03	10	3	7	0	31.3	202	4	198	0
353-04	0	0	0	0	30.8	0	0	0	0
353-05	9	2	7	0	24.1	142	4	138	0
353-06	2	1	1	0	32.5	31	11	20	0
354-01	15	6	9	0	55.2	57	6	51	0
355-01	16	7	9	0	25.7	270	42	229	0
356-01	18	3	15	0	31.9	200	56	144	0
357-01	26	7	19	0	65.4	423	379	44	0
358-01	8	3	5	0	23.1	50	18	32	0
358-02	1	0	1	0	29.2	7	0	7	0
359-01	28	4	22	2	50.5	103	41	54	7
359-02	3	0	3	0	55.5	2	0	2	0
359-03	23	4	19	0	53.4	118	11	107	0
359-04	3	0	3	0	29.7	63	0	63	0
360-01	33	6	27	0	55.2	147	63	84	0
360-02	6	3	3	0	45.0	83	27	56	0
360-03	27	9	18	0	35.8	653	568	85	0
360-04	18	4	14	0	27.2	155	50	105	0
360-05	3	2	1	0	72.3	1830	1827	3	0
360-06	9	2	6	1	41.3	173	121	50	2
360-07	11	0	8	3	39.2	46	0	35	11
361-01	11	2	9	0	31.0	301	202	99	0
361-02	1	0	1	0	41.7	90	0	90	0
361-03	19	2	16	1	56.3	52	8	41	3
361-04	4	2	1	1	18.0	19	18	0	1
361-05	12	4	7	1	38.9	120	34	84	2
361-06	5	1	4	0	37.7	51	40	11	0
361-07	4	0	3	1	93.9	20	0	19	1
361-08	12	5	7	0	59.4	152	84	67	0
361-09	1	1	0	0	68.1	0	0	0	0
361-10	35	15	18	2	74.6	202	145	55	3
361-11	16	8	8	0	74.5	81	40	41	0
362-01	12	0	9	3	26.5	293	0	254	38
362-02	1	0	1	0	43.1	2	0	2	0
362-03	14	3	10	1	55.6	189	96	90	3
362-04	15	7	8	0	47.9	585	96	489	0
362-05	12	2	9	1	53.9	46	20	24	2
362-06	8	2	6	0	40.2	89	3	86	0

OVERBURDEN DRILLING MANAGEMENT LIMITED

GOLD GRAIN SUMMARY SHEET

Sample No.	Number of Visible Gold Grains				Non-Mag Weight	Calculated PPB Visible Gold			
	Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
RR-97									
362-07	1	0	1	0	31.7	335	0	335	0
362-08	8	4	1	3	34.2	178	152	2	24
362-09	13	5	8	0	23.8	173	110	63	0
362-10	16	1	15	0	34.4	103	1	102	0
362-11	5	2	3	0	36.4	29	18	11	0
363-01	12	1	11	0	52.6	94	2	92	0
363-02	18	5	13	0	47.8	74	33	42	0
363-03	21	7	14	0	55.6	289	171	117	0
363-04	21	7	14	0	40.0	444	386	58	0
363-05	13	1	11	1	47.3	98	4	81	14
363-06	15	3	12	0	39.5	39	6	33	0
364-01	30	3	22	5	103.9	76	49	24	4
364-02	9	1	8	0	86.5	26	7	18	0
364-03	12	3	6	3	35.6	136	97	32	6
364-04	598	5	301	292	119.4	2707	79	1695	934
364-05	45	18	23	4	162.0	386	132	252	2
364-06	32	3	27	2	116.0	793	80	711	1
365-01	1	0	1	0	94.8	0	0	0	0
365-02	54	10	44	0	100.9	164	48	116	0
365-03	35	6	24	5	105.1	128	13	110	5
365-04	27	4	19	4	125.9	86	30	51	5
365-05	4	1	3	0	31.1	139	68	71	0
365-06	46	6	37	3	107.7	316	50	261	5
365-07	84	9	64	11	135.4	120	16	93	11
365-08	60	9	40	11	82.6	122	14	98	10
366-01	21	3	15	3	74.3	86	3	67	16
366-02	27	2	21	4	86.5	460	59	367	33
366-03	8	0	7	1	81.6	50	0	48	2
366-04	12	1	9	2	97.8	65	22	40	3
366-05	12	1	9	2	79.8	1172	1071	93	9
367-01	24	1	23	0	47.7	3114	13	3101	0
368-01	40	4	18	18	71.5	39	5	21	14
369-01	0	0	0	0	31.1	0	0	0	0
369-02	12	7	5	0	33.7	351	53	298	0
369-03	7	3	4	0	39.7	50	28	22	0
369-04	2	1	1	0	38.9	26	10	16	0
369-05	7	4	3	0	44.3	68	58	9	0
369-06	4	3	1	0	48.4	9	7	2	0
369-07	3	0	3	0	23.2	5561	0	5561	0
369-08	3	2	1	0	31.0	132	126	6	0
369-09	3	1	2	0	43.2	30	2	28	0
369-10	3	2	1	0	68.6	11	8	3	0
370-01	3	1	2	0	26.5	60	57	3	0
370-02	6	0	6	0	6.6	45	0	45	0
371-01	0	0	0	0	3.7	0	0	0	0
372-01	1	0	1	0	12.6	15	0	15	0

OVERBURDEN DRILLING MANAGEMENT LIMITED

GOLD GRAIN SUMMARY SHEET

Sample No.	Number of Visible Gold Grains				Non-Mag Weight	Calculated PPB Visible Gold			
	Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
RR-97									
373-01	6	0	6	0	51.8	35	0	35	0
373-02	21	5	16	0	26.2	125	41	84	0
373-03	18	4	13	1	57.3	62	4	56	1
374-01	3	3	0	0	50.4	26	26	0	0
374-02	4	1	3	0	12.0	56	31	25	0
374-03	10	3	7	0	35.0	2005	1573	432	0
374-04	12	5	7	0	42.5	59	15	44	0
375-01	1	0	1	0	8.2	10	0	10	0
376-01	1	0	1	0	28.9	7	0	7	0
376-02	13	4	9	0	66.2	125	70	56	0
376-03	2	1	1	0	8.1	496	472	24	0
376-04	4	1	3	0	48.4	44	8	37	0
376-05	2	2	0	0	29.8	46	46	0	0
376-06	6	4	2	0	41.7	1439	805	634	0
376-07	5	2	3	0	46.8	1655	1601	54	0
376-08	4	4	0	0	54.4	277	277	0	0
376-09	1	0	1	0	38.9	10	0	10	0
376-10	2	1	1	0	31.8	34	32	3	0
376-11	2	0	2	0	47.6	4	0	4	0
376-12	2	1	1	0	35.9	30	28	2	0
376-13	15	12	3	0	105.1	225	222	3	0
376-14	6	4	2	0	64.1	274	268	6	0
377-01	11	3	8	0	101.1	48	30	18	0
378-01	22	13	8	1	31.6	634	613	20	0
379-01	4	0	4	0	49.5	40	0	40	0
379-02	2	0	2	0	56.6	33	0	33	0
379-03	2	0	2	0	70.5	17	0	17	0
379-04	2	2	0	0	50.4	15	15	0	0
379-05	1	0	1	0	45.2	2	0	2	0
380-01	1	0	1	0	39.7	5	0	5	0
380-02	2	0	2	0	30.0	62	0	62	0
380-03	1	1	0	0	29.2	22	22	0	0
380-04	1	0	1	0	41.8	9	0	9	0
380-05	1	0	1	0	50.9	7	0	7	0
380-06	2	0	2	0	52.9	2	0	2	0
381-01	2	0	2	0	26.5	6	0	6	0
381-02	3	0	3	0	45.9	28	0	28	0
382-01	19	2	16	1	108.3	146	10	134	2
382-02	24	2	19	3	97.5	92	3	85	5
382-03	14	4	8	2	158.2	350	26	317	7
382-04	8	4	4	0	193.6	14	5	9	0
383-01	12	1	11	0	82.6	122	0	122	0
383-02	11	1	9	1	51.3	196	2	191	4
384-01	7	1	6	0	76.0	28	5	23	0
384-02	20	1	18	1	119.7	128	2	125	2
384-03	25	7	18	0	84.4	615	126	489	0

OVERBURDEN DRILLING MANAGEMENT LIMITED

GOLD GRAIN SUMMARY SHEET

Sample No.	Number of Visible Gold Grains				Non-Mag Weight	Calculated PPB Visible Gold			
	Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
RR-97									
384-04	17	5	12	0	59.9	47	32	15	0
384-05	16	8	8	0	73.8	139	99	40	0
385-01	41	10	31	0	77.6	341	220	121	0
385-02	46	14	32	0	98.5	465	266	199	0
385-03	44	23	21	0	85.3	125	98	26	0
385-04	103	28	67	8	92.9	514	342	135	36
385-05	64	24	39	1	93.5	244	151	91	2
385-06	91	36	55	0	111.5	467	66	401	0
385-07	52	19	33	0	89.5	983	848	135	0
385-08	132	30	99	3	125.5	314	115	197	2
385-09	8	3	5	0	48.2	1187	288	899	0
385-10	7	2	5	0	48.9	1003	80	923	0
385-11	18	14	3	1	42.1	226	212	5	9
385-12	6	4	2	0	30.0	77	74	3	0
386-01	34	20	14	0	52.3	148	110	38	0
386-02	33	19	14	0	84.5	202	159	44	0
386-03	24	12	12	0	81.5	216	53	162	0
386-04	17	9	8	0	78.3	138	75	64	0
386-05	86	17	53	16	80.3	150	96	39	15
386-06	38	16	22	0	68.1	146	106	40	0
386-07	68	22	44	2	80.9	405	201	202	2
386-08	20	13	7	0	70.1	716	711	5	0
386-09	28	17	10	1	50.8	3258	3243	16	0
386-10	16	12	4	0	53.5	610	591	19	0
386-11	11	7	4	0	47.5	319	305	14	0
386-12	15	12	3	0	30.3	279	266	13	0
386-13	15	9	6	0	39.6	216	195	21	0
386-14	19	10	9	0	107.9	38	20	18	0
387-01	8	2	6	0	65.6	193	38	155	0
387-02	1	1	0	0	106.1	2	2	0	0
387-03	22	8	14	0	61.8	597	202	395	0
387-04	13	5	8	0	40.6	543	532	11	0
387-05	23	8	15	0	65.1	829	713	116	0
387-06	16	8	8	0	42.7	726	634	92	0
387-07	13	3	10	0	39.2	628	530	98	0
387-08	19	6	13	0	12.9	1810	1420	391	0
388-01	7	0	7	0	30.8	40	0	40	0
388-02	9	6	3	0	33.6	769	351	418	0
388-03	5	0	5	0	36.1	154	0	154	0
388-04	0	0	0	0	28.6	0	0	0	0
388-05	2	1	1	0	25.6	4	3	1	0
389-01	13	1	11	1	50.1	119	42	73	4
389-02	4	1	3	0	45.4	51	22	28	0
389-03	15	7	5	3	50.4	239	191	21	27
389-04	3	3	0	0	30.9	163	163	0	0
389-05	10	4	6	0	24.1	186	162	25	0

OVERBURDEN DRILLING MANAGEMENT LIMITED

GOLD GRAIN SUMMARY SHEET

Sample No.	Number of Visible Gold Grains				Non-Mag Weight	Calculated PPB Visible Gold			
	Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
RR-97									
390-01	0	0	0	0	54.5	0	0	0	0
390-02	11	1	10	0	40.1	79	16	63	0
390-03	5	0	4	1	58.1	70	0	63	6
390-04	10	1	9	0	42.3	662	35	627	0
390-05	3	1	2	0	96.0	23	22	1	0
390-06	14	6	8	0	118.2	182	64	117	0
390-07	19	9	10	0	65.9	136	86	51	0
390-08	26	7	19	0	43.7	113	47	65	0
390-09	4	2	2	0	58.2	30	2	28	0
390-10	17	2	15	0	35.0	92	30	63	0
390-11	3	1	2	0	36.0	250	173	77	0
391-01	22	6	15	1	50.3	338	157	160	21
391-02	2	1	1	0	57.2	18	7	11	0
391-03	9	6	3	0	45.5	124	108	16	0
391-04	4	1	3	0	52.8	42	4	38	0
391-05	40	13	27	0	55.9	628	317	312	0
392-01	5	1	4	0	11.9	283	243	40	0
393-01	1	0	1	0	15.3	5	0	5	0
393-02	0	0	0	0	36.9	0	0	0	0
393-03	0	0	0	0	40.9	0	0	0	0
393-04	3	2	1	0	61.4	4	4	0	0
394-01	14	2	12	0	79.5	102	3	99	0
394-02	6	0	6	0	47.9	788	0	788	0
394-03	3	0	3	0	29.7	10	0	10	0
396-01	5	1	4	0	48.2	26	13	12	0
396-02	4	0	4	0	55.0	12	0	12	0
397-01	4	1	3	0	42.8	15	4	11	0
397-02	4	1	3	0	56.5	220	84	136	0
397-03	2	1	1	0	34.5	8	6	2	0
398-01	30	6	20	4	119.7	121	48	72	2
398-02	58	9	45	4	182.1	505	45	454	5
398-03	57	15	31	11	133.2	625	86	538	1
398-04	39	2	33	4	222.8	249	1	244	4
398-05	28	3	23	2	110.9	968	49	919	1
399-01	44	8	30	6	143.9	229	15	203	11
399-02	39	5	29	5	158.4	216	16	198	2
399-03	4	0	4	0	50.2	1422	0	1422	0
400-01	91	17	53	21	88.1	9658	19	9612	27
401-01	53	7	39	7	140.4	57	3	51	4
401-02	49	3	39	7	132.4	123	20	93	9
401-03	45	11	22	12	92.8	178	52	115	11
401-04	53	3	28	22	156.0	269	1	239	28
401-05	52	12	34	6	136.7	119	29	86	4
401-06	24	6	16	2	50.8	79	34	45	1
402-01	40	6	20	14	70.3	384	162	210	12
402-02	21	5	16	0	95.2	109	27	82	0

OVERBURDEN DRILLING MANAGEMENT LIMITED

GOLD GRAIN SUMMARY SHEET

Sample No.	Number of Visible Gold Grains				Non-Mag Weight	Calculated PPB Visible Gold			
	Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
RR-97									
402-03	11	1	8	2	63.5	513	6	506	1
402-04	16	3	12	1	77.9	106	50	48	8
402-05	10	1	8	1	70.1	526	41	482	3
402-06	1	0	1	0	63.0	6	0	6	0
403-01	38	7	27	4	131.1	223	13	208	2
403-02	42	7	29	6	199.5	195	8	180	7
403-03	22	6	12	4	76.1	807	514	208	85
404-01	23	2	17	4	47.9	67	25	38	4
404-02	15	7	6	2	39.4	30	22	5	3
404-03	43	9	21	13	116.0	381	135	166	80
404-04	25	3	16	6	88.4	52	1	39	11
404-05	11	1	7	3	186.1	337	16	319	3
405-01	39	6	22	11	131.1	73	15	49	9
406-01	81	16	48	17	100.1	1002	81	900	21
407-01	21	2	18	1	175.4	59	1	55	4
407-02	9	0	7	2	77.8	12	0	11	1
407-03	14	1	10	3	101.4	29	0	28	1
408-01	18	4	12	2	103.1	163	123	37	2
408-02	20	4	14	2	120.5	57	4	44	8
408-03	18	3	11	4	85.3	26	4	20	2
408-04	9	2	6	1	43.7	12	5	7	1
408-05	21	8	11	2	138.2	2466	1798	669	0
408-06	16	5	10	1	140.0	47	28	19	0
408-07	12	2	10	0	79.0	700	8	691	0
409-01	9	1	7	1	78.4	52	5	47	0
409-02	57	9	33	15	69.9	156	83	55	17
410-01	55	4	32	19	91.4	186	18	109	59
410-02	41	1	31	9	127.5	55	0	42	12
410-03	11	2	9	0	43.1	88	13	75	0
410-04	20	0	17	3	51.3	191	0	187	4
410-05	3	1	2	0	93.5	18	16	2	0
410-06	3	3	0	0	77.3	359	359	0	0
410-07	5	1	3	1	85.8	29	17	10	1
410-08	23	1	16	6	129.1	83	1	78	4
410-09	4	0	4	0	56.8	504	0	504	0
410-10	5	0	5	0	51.7	29	0	29	0
410-11	16	4	9	3	96.2	152	59	57	36
410-12	50	5	39	6	74.8	86	32	50	4
411-01	53	11	39	3	130.7	531	78	453	0
411-02	37	7	21	9	122.7	424	164	145	115
411-03	13	0	8	5	135.7	846	0	620	226
411-04	8	3	3	2	112.5	624	481	71	72
411-05	39	8	21	10	132.4	202	42	76	84
411-06	60	8	36	16	170.6	212	20	161	32
411-07	32	3	27	2	154.0	210	6	200	4
411-08	17	1	14	2	123.8	324	2	305	17

OVERBURDEN DRILLING MANAGEMENT LIMITED

GOLD GRAIN SUMMARY SHEET

Sample No.	Number of Visible Gold Grains				Non-Mag Weight	Calculated PPB Visible Gold			
	Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
RR-97									
411-09	10	1	7	2	128.6	45	5	33	6
411-10	16	1	12	3	134.7	182	1	175	6
411-11	23	3	12	8	151.3	101	4	82	15
411-12	16	0	14	2	146.0	271	0	267	5
411-13	14	1	5	8	85.6	378	25	326	28
412-01	82	8	56	18	180.0	772	63	329	379
412-02	32	5	23	4	110.2	92	24	68	1
412-03	72	11	44	17	136.1	252	50	168	34
412-04	9	3	5	1	74.1	344	175	156	14
412-05	37	8	25	4	149.3	165	42	121	2
412-06	31	3	24	4	135.4	559	4	393	162
412-07	6	1	3	2	61.8	608	10	591	6
412-08	5	0	5	0	90.8	7	0	7	0
412-09	7	4	3	0	46.3	1756	36	1720	0
413-01	2	1	1	0	21.1	27	18	9	0
414-01	15	2	13	0	54.3	209	10	199	0
414-02	4	2	2	0	90.9	16	13	2	0
414-03	31	8	20	3	104.5	88	58	30	1
414-04	15	9	6	0	99.9	222	192	30	0
414-05	18	9	9	0	101.0	609	33	576	0
414-06	33	11	21	1	117.0	66	45	21	0
414-07	10	2	7	1	88.3	30	1	26	2
414-08	13	4	8	1	79.8	218	5	213	0
414-09	13	4	9	0	88.6	74	49	25	0
414-10	17	6	10	1	65.1	6862	6851	11	0
414-11	31	5	24	2	77.2	507	44	380	83
415-01	18	2	14	2	87.1	193	8	173	12
415-02	8	4	4	0	88.4	23	14	10	0
415-03	14	3	10	1	83.2	372	335	25	12
415-04	19	1	17	1	149.9	181	4	175	2
415-05	20	5	14	1	147.6	38	17	19	3
416-01	24	4	19	1	142.0	390	18	371	1
416-02	18	3	14	1	94.7	233	31	202	0
416-03	9	2	6	1	86.9	19	1	14	4
416-04	13	1	9	3	73.0	498	40	456	3
416-05	24	0	19	5	120.4	4179	0	4170	10
416-06	7	0	4	3	115.8	27	0	11	17
416-07	11	3	8	0	178.9	100	28	72	0
416-08	28	0	24	4	305.8	334	0	331	4
416-09	13	0	12	1	215.6	72	0	72	0
417-01	1	0	1	0	43.8	9	0	9	0
417-02	20	2	16	2	130.6	18	1	16	2
418-01	30	4	26	0	92.2	121	64	57	0
418-02	39	7	30	2	105.1	178	21	155	1
418-03	34	2	32	0	103.0	213	120	93	0
418-04	22	6	16	0	162.9	38	4	34	0

OVERBURDEN DRILLING MANAGEMENT LIMITED

GOLD GRAIN SUMMARY SHEET

Sample No.	Number of Visible Gold Grains				Non-Mag Weight	Calculated PPB Visible Gold			
	Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
RR-97									
418-05	95	11	73	11	268.7	417	48	331	38
418-06	22	2	15	5	69.6	190	15	161	15
419-01	18	1	16	1	82.1	173	8	164	1
419-02	9	0	9	0	38.3	408	0	408	0
419-03	7	0	6	1	48.2	25	0	25	0
420-01	13	3	9	1	71.1	123	58	65	0
420-02	29	2	24	3	97.1	215	4	91	120
420-03	13	0	13	0	95.1	308	0	308	0
420-04	21	2	17	2	117.2	296	9	244	43
421-01	14	1	11	2	98.3	149	2	144	3
421-02	6	0	6	0	58.1	84	0	84	0
421-03	9	0	7	2	119.2	45	0	44	1
421-04	19	3	15	1	117.3	169	29	139	1
421-05	14	2	9	3	54.1	1130	145	821	164
421-06	7	1	5	1	70.6	21	0	20	1
421-07	34	2	30	2	145.1	163	6	154	3
422-01	95	9	76	10	141.6	131	8	109	15
423-01	17	1	16	0	72.9	912	26	886	0
423-02	14	1	11	2	64.6	24	0	22	1
423-03	16	1	15	0	74.5	186	96	90	0
423-04	15	1	14	0	96.8	74	49	25	0
423-05	34	3	30	1	91.2	81	22	56	2
423-06	15	0	14	1	61.9	52	0	51	1
423-07	32	6	26	0	143.2	742	43	699	0
423-08	29	3	23	3	83.5	218	27	189	1
424-01	61	2	59	0	77.4	379	1	378	0
424-02	113	9	100	4	128.0	197	41	151	4
424-03	70	4	65	1	60.3	321	79	242	0
425-01	27	0	14	13	113.7	491	0	23	468
425-02	96	6	86	4	117.9	881	11	868	2
425-03	96	1	93	2	119.6	243	31	210	2
426-01	79	10	58	11	110.1	406	193	194	18
427-01	72	7	56	9	67.3	308	74	217	16
428-01	53	5	46	2	71.7	394	8	386	0
429-01	25	5	20	0	61.5	144	21	123	0
429-02	41	6	32	3	47.4	187	11	174	2
429-03	50	9	40	1	67.7	1032	108	921	3
429-04	70	8	61	1	85.9	141	53	87	0
430-01	25	1	23	1	37.9	505	187	308	10
430-02	8	2	4	2	99.3	7	4	2	0
431-01	177	19	153	5	122.2	713	274	433	6
431-02	164	16	137	11	130.3	902	267	566	69
432-01	14	0	12	2	24.1	54	0	53	1
432-02	57	4	46	7	183.2	454	159	290	6
432-03	43	3	36	4	116.7	169	51	116	2
432-04	44	5	32	7	173.4	82	7	72	4

OVERBURDEN DRILLING MANAGEMENT LIMITED

GOLD GRAIN SUMMARY SHEET

Sample No.	Number of Visible Gold Grains				Non-Mag Weight	Calculated PPB Visible Gold			
	Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
RR-97									
432-05	24	0	11	13	140.6	29	0	18	11
433-01	45	3	33	9	107.5	2591	4	2528	60
433-02	59	5	45	9	221.2	127	10	114	3
433-03	289	0	175	114	455.9	2614	0	1593	1021
433-04	215	1	127	87	374.1	1928	2	1096	830
433A-01	200	2	137	61	633.2	954	26	826	102
434-01	12	0	9	3	132.5	61	0	60	1
434-02	26	1	12	13	185.9	35	0	18	16
434-03	26	2	13	11	135.9	649	63	552	34
435-01	14	3	9	2	147.5	574	6	567	1
436-01	27	4	19	4	102.3	121	12	103	7
436-02	6	1	3	2	64.8	471	33	12	425
436-03	21	5	11	5	91.8	73	17	43	12
436-04	29	7	17	5	110.9	409	276	71	62
436-05	15	1	10	4	59.9	91	1	81	8
437-01	26	1	16	9	65.4	189	15	81	93
438-01	29	2	21	6	198.9	544	1	487	57
438-02	19	3	11	5	250.3	38	4	20	14
438-03	70	4	52	14	217.9	205	2	191	12
439-01	29	11	17	1	59.7	131	77	53	1
439-02	26	13	13	0	74.2	225	167	58	0
439-03	6	3	3	0	49.3	88	80	8	0
439-04	10	4	6	0	58.8	71	63	8	0
439-05	11	3	8	0	36.2	64	3	61	0
441-01	43	15	26	2	40.1	353	268	84	1
442-01	20	8	10	2	16.6	418	127	32	260
443-01	72	45	27	0	132.2	366	327	39	0
443-02	61	25	35	1	80.1	417	359	58	0
443-03	75	42	33	0	109.6	3795	3112	682	0
443-04	70	42	28	0	114.4	1497	1479	18	0
443-05	47	29	17	1	111.4	122	100	22	0
443-06	57	34	22	1	78.8	198	165	32	1
443-07	80	52	28	0	106.7	1038	1002	35	0
444-01	26	9	16	1	55.5	44	27	18	0
444-02	24	15	7	2	46.6	92	75	14	2
445-01	37	26	9	2	115.3	566	512	53	1
446-01	28	21	4	3	74.1	97	94	2	2
446-02	32	19	12	1	62.2	108	69	36	3
446-03	11	2	4	5	58.0	27	21	4	2
447-01	15	9	6	0	76.8	35	27	7	0
447-02	8	4	4	0	25.4	127	27	100	0
448-01	7	3	4	0	39.9	16	5	10	0
448-02	8	7	1	0	53.0	50	49	1	0
448-03	11	8	3	0	52.3	83	63	20	0
448-04	7	4	3	0	35.7	318	178	140	0
449-01	14	5	7	2	64.7	229	216	7	6

OVERBURDEN DRILLING MANAGEMENT LIMITED

GOLD GRAIN SUMMARY SHEET

Sample No.	Number of Visible Gold Grains				Non-Mag Weight	Calculated PPB Visible Gold			
	Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
RR-97									
449-02	14	8	5	1	70.8	134	114	19	1
449-03	11	7	4	0	60.0	91	68	23	0
449-04	38	26	11	1	91.0	262	247	11	4
449-05	12	7	5	0	38.5	282	276	6	0
450-01	7	6	1	0	56.3	41	40	0	0
450-02	10	9	1	0	41.4	147	143	5	0
450-03	4	3	1	0	49.9	45	41	4	0
451-01	7	6	1	0	37.8	39	29	10	0
451-02	10	9	1	0	57.2	58	58	0	0
451-03	8	5	3	0	47.7	33	31	2	0
451-04	8	4	4	0	42.3	180	170	10	0
452-01	14	8	6	0	60.8	218	16	202	0
452-02	12	9	3	0	55.0	147	145	2	0
452-03	3	3	0	0	8.4	217	217	0	0
453-01	10	3	6	1	36.4	40	16	22	1
453-02	13	6	7	0	58.0	48	18	30	0
453-03	15	7	7	1	89.3	223	187	35	1
453-04	9	3	5	1	54.7	141	16	121	4
453-05	8	3	5	0	32.6	104	101	4	0
454-01	8	6	2	0	29.8	101	99	2	0

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
321-01	N	75 X 100	18 C			1				1			~100 gr of cobaltite observed in table bowl.
										1	56.9	18	
321-02	N	NO VISIBLE GOLD											
321-03	Y	25 X 75	10 C					1		1			40% pyrite
										1	25.6	8	
322-01	Y	25 X 25	5 C				1			1			25% pyrite
		25 X 50	8 C			1	1		1	3			
		25 X 75	10 C				1			1			
		50 X 50	10 C	2			1			3			
		50 X 75	13 C		1					1			
		50 X 100	15 C	1						1			
		50 X 200	25 C			1				1			
		75 X 100	18 C	1						1			
		100 X 100	20 C	1						1			
		100 X 125	22 C	1						1			
		150 X 200	25 M				1			1			
		175 X 250	50 M	1						1			
										16	45.0	717	
322-02	Y	25 X 50	8 C			1				1			40% pyrite
		25 X 75	10 C			1				1			
		50 X 50	10 C	2						2			
		50 X 100	15 C	2						2			
		75 X 200	50 M				1			1			
		100 X 125	22 C	1						1			
										8	33.2	336	
323-01	Y	25 X 25	5 C	2		1		1		4			15% pyrite
		50 X 50	10 C	1						1			5 grains of arsenopyrite
		50 X 75	13 C					1		1			
		75 X 100	18 C	1	1					2			
										8	36.3	74	
323-02	N	50 X 125	18 C			1				1			
										1	25.6	39	

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
323-03	Y	25 X 50	8 C	3		1				4			30% pyrite
		25 X 100	13 C	2			1			3			
		25 X 125	15 C		1					1			
		50 X 50	10 C	1	1					2			
		50 X 100	15 C				1			1			
		50 X 125	18 C	2						2			
		75 X 75	15 C	1						1			
		75 X 125	20 C	1	1					2			
										16	45.3	194	
323-04	N	100 X 125	22 C	1						1			
		150 X 275	75 M			1				1			
										2	39.3	700	
324-01	Y	15 X 50	7 C			1				1			10% pyrite
		25 X 25	5 C			5				5			
		25 X 50	8 C	1		1				2			
		25 X 75	10 C			2	1			3			
		50 X 75	13 C	1		2				3			
		50 X 125	18 C			1				1			
		75 X 75	15 C				1			1			
		75 X 125	20 C			1				1			
		75 X 150	22 C			1				1			
										18	43.5	168	
324-02	Y	15 X 50	7 C			1				1			3% pyrite
		25 X 25	5 C			6				6			
		25 X 50	8 C			5				5			
		25 X 75	10 C	1		1				2			
		25 X 150	18 C			1				1			
		50 X 50	10 C	1	1	1				3			
		50 X 75	13 C	1		3	1			5			
		50 X 100	15 C				1			1			
		75 X 75	15 C					1		1			
		75 X 100	18 C	1						1			
		75 X 125	20 C			1				1			
		100 X 125	22 C			1	1			2			
										29	34.5	362	
324-03	Y	15 X 15	3 C	2						2			4% pyrite
		15 X 75	9 C					1		1			Trace siderite

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		50 X 75	13 C	1		1				2			
		50 X 75	50 M					1		1			
										6	41.9	56	
324-04	Y	50 X 50	10 C	1		1		1		3			10% pyrite
		50 X 75	13 C	1						1			Trace siderite
		50 X 100	15 C	2						2			1 grain of galena (200X200u)
		100 X 100	20 C					1		1			
		125 X 150	27 C						1	1			
		175 X 175	34 C	1						1			
										9	29.7	515	
324-05	Y	25 X 25	5 C	1						1			15% pyrite
		50 X 50	10 C					1		1			
		75 X 150	22 C				1			1			
										3	17.7	132	
325-01	N	25 X 25	5 C	1						1			
		25 X 50	8 C	1						1			
		50 X 50	10 C			1				1			
		50 X 75	13 C	1						1			
										4	40.6	17	
325-02	N	50 X 50	10 C	1						1			
		50 X 75	13 C	1						1			
		75 X 100	18 C	1						1			
										3	20.2	78	
325-03	Y	25 X 50	8 C	4						4			7% pyrite
		50 X 50	10 C	2						2			5 grains of arsenopyrite
		50 X 75	13 C	1						1			
		75 X 100	18 C	2						2			
		75 X 125	20 C	1						1			
										10	23.2	199	
325-04	N	NO VISIBLE GOLD											
325-05	N	NO VISIBLE GOLD											

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
TOTAL # OF PANNINGS													
RR-97													
325-06	N	50 X 75	13 C	1						1			
										1	10.0	37	
325-07	Y	25 X 25	5 C			2				2			4% pyrite
		25 X 50	8 C			2				2			
		25 X 75	10 C			1				1			
		25 X 125	15 C			1				1			
		50 X 75	13 C			1		1		2			
		50 X 100	15 C			1				1			
		75 X 125	20 C			1				1			
										10	31.5	125	
325-08	Y	15 X 15	3 C	1		2				3			4% pyrite
		15 X 50	7 C	1						1			
		15 X 75	9 C			1				1			
		25 X 25	5 C	2		2				4			
		25 X 50	8 C	1						1			
		25 X 75	10 C	1						1			
		50 X 50	10 C	3		2				5			
										16	21.5	72	
325-09	Y	15 X 50	7 C			1				1			15% pyrite
		25 X 50	8 C	1						1			1 copper nugget (175X175X150u)
		50 X 75	13 C					1		1			
		50 X 75	50 M					1		1			
		50 X 100	15 C	2						2			
										6	26.7	122	
325-10	Y	25 X 50	8 C		1	1				2			25% pyrite
		25 X 100	13 C		1					1			
		50 X 50	10 C			1		1		2			
		50 X 75	13 C	2						2			
		75 X 125	20 C	1						1			
		175 X 200	36 C	1						1			
										9	33.0	382	
326-01	N	25 X 100	13 C			1				1			*10 grains of native copper ((=50u)
		50 X 50	10 C	1						1			
		100 X 150	25 C			1				1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97										3	24.8	139	
327-01	N	NO VISIBLE GOLD											~25 grains of native copper ((=50u)
327-02	Y	15 X 50	7 C			1				1			80% pyrite
		15 X 100	12 C			1				1			4 grains of native copper ((=50u)
		25 X 50	8 C	1		2	1			4			
		50 X 75	13 C			1				1			
		50 X 200	25 C				1			1			
		100 X 125	22 C	1						1			
										9	45.8	132	
328-01	N	25 X 25	5 C	1						1			
		50 X 50	10 C	1						1			
		75 X 100	18 C	1						1			
										3	22.9	54	
328-02	Y	25 X 50	8 C	2						2			3% pyrite
		25 X 75	10 C	1						1			4 grains of native copper ((=50u)
		50 X 75	13 C	2						2			
		50 X 125	18 C		1					1			
		75 X 100	18 C						1	1			
										7	20.7	151	
328-03	N	25 X 50	8 C	1						1			
		50 X 50	10 C	1						1			
		100 X 100	20 C	1						1			
										3	11.7	152	
329-01	N	75 X 75	15 C	1						1			
										1	50.8	13	
329-02	N	50 X 50	10 C	1						1			5 grains of native copper ((=50u)
		50 X 75	13 C	1						1			
		75 X 125	20 C	1						1			
										3	9.9	209	
329-03	Y	25 X 25	5 C			1				1			25% pyrite
		25 X 50	8 C	1		1				2			~20 grains of arsenopyrite

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		50 X 50	10 C			1		1		2			
		50 X 75	13 C	2				1		3			
		50 X 125	18 C				1			1			
		75 X 100	18 C			2				2			
										11	51.9	91	
330-01	Y	15 X 15	3 C			1				1			90% pyrite
		15 X 50	7 C					1		1			~25 grains of arsenopyrite
		25 X 25	5 C	1		2	1	1		5			5 grains of native copper ((=50u)
		25 X 50	8 C	1	1	2				4			
		25 X 75	10 C			1				1			
		50 X 50	10 C			1				1			
		50 X 75	13 C	1		1				2			
		50 X 125	18 C			1		1		2			
		50 X 150	20 C			1				1			
		75 X 75	15 C		1					1			
		100 X 150	75 M			1				1			
		125 X 175	29 C		1					1			
		150 X 175	31 C		1					1			
										22	96.4	267	
330-02	Y	25 X 25	5 C			3				3			90% pyrite
		25 X 50	8 C			1				1			~10 grains of native copper ((=50u)
		25 X 75	10 C			1				1			
		25 X 100	13 C					1		1			
		50 X 75	13 C			1	1			2			
		50 X 100	15 C				1			1			
		50 X 150	20 C				1			1			
		125 X 300	50 M				1			1			
										11	157.4	130	
330-03	Y	25 X 25	5 C			2	1			3			90% pyrite
		25 X 50	8 C			1				1			
		25 X 75	10 C			2				2			
		50 X 50	10 C			2	1			3			
		50 X 75	13 C				1	1		2			
		50 X 125	18 C			1				1			
		100 X 125	22 C				1			1			
										13	117.7	42	
330-04	Y	25 X 50	8 C			2		2		4			90% pyrite

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		25 X 75	10 C				1			1			~10 grains of native copper ((=50u)
		50 X 50	10 C			2		1		3			
		50 X 75	13 C			1		2		3			
		50 X 100	15 C			1				1			
		125 X 150	75 M				1			1			
										13	86.7	156	
331-01	Y	25 X 25	5 C			1				1			70% pyrite
		25 X 50	8 C			1		1		2			5 grains of arsenopyrite
		50 X 50	10 C			2				2			
		50 X 100	15 C			1	1			2			
		100 X 100	20 C				1			1			
		100 X 125	22 C				1			1			
										9	57.8	95	
331-02	Y	15 X 25	4 C			1				1			50% pyrite
		15 X 50	7 C		1					1			5 grains of arsenopyrite
		25 X 25	5 C					1		1			~10 grains of native copper ((=50u)
		25 X 50	8 C			1		1		2			
		25 X 75	10 C			2		1		3			
		25 X 100	13 C					1		1			
		50 X 75	13 C				1			1			
		50 X 125	18 C				1			1			
		75 X 125	20 C			1	1			2			
		100 X 125	22 C			1				1			
		100 X 150	25 C				1			1			
										15	45.9	231	
332-01	Y	25 X 25	5 C			1				1			70% pyrite
		25 X 50	8 C			3	2	2		7			~25 grains of arsenopyrite
		50 X 50	10 C			4	1			5			~25 grains of native copper ((=50u)
		50 X 75	13 C			5				5			
		50 X 100	15 C			1				1			
		50 X 125	18 C						1	1			
		50 X 150	20 C			1	1			2			
		50 X 200	25 C			1				1			
		75 X 75	15 C			3				3			
		75 X 100	18 C						1	1			
		75 X 125	20 C			2				2			
		75 X 200	27 C				1			1			
		100 X 100	20 C			1				1			
		100 X 125	22 C			1			1	2			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		100 X 200	29 C						1	1			
		100 X 250	34 C					1		1			
		125 X 150	27 C			1				1			
										36	97.3	442	
333-01	Y	15 X 50	7 C			1				1			60% pyrite
		15 X 75	9 C			1				1			~20 grains of native copper ((=100u)
		25 X 25	5 C			2		1		3			The calculated ppb Au is 108 with
		25 X 50	8 C			3				3			the (450 X 775 X 400) nugget
		25 X 75	10 C	1		3				4			removed.
		25 X 100	13 C			1	1			2			
		25 X 125	15 C			1	1			2			
		50 X 50	10 C			1				1			
		50 X 75	13 C			1				1			
		50 X 100	15 C				1			1			
		50 X 125	18 C			1				1			
		450 X 775	400 M		1					1			
										21	51.0	22176	
333-02	Y	15 X 25	4 C			1				1			60% pyrite
		25 X 25	5 C	1			1	1		3			~20 grains of native copper ((=100u)
		25 X 50	8 C	1		3				4			
		25 X 75	10 C			1				1			
		50 X 50	10 C			4				4			
		50 X 75	13 C			5	1			6			
		50 X 100	15 C					1		1			
		50 X 125	18 C						1	1			
		75 X 100	18 C			3				3			
		100 X 250	34 C			1				1			
										25	70.9	226	
333-03	Y	15 X 15	3 C			5				5			70% pyrite
		15 X 25	4 C			4	1			5			~50 grains of native copper ((=100u)
		15 X 50	7 C			1	1			2			Gold grains mounted on SEM stub.
		25 X 25	5 C			1				1			
		25 X 50	8 C			10	1	1		12			
		25 X 75	10 C			17	1	1		19			
		25 X 100	13 C			5				5			
		50 X 50	10 C	2		2				4			
		50 X 75	13 C	2		7				9			
		50 X 100	15 C	1		1				2			
		75 X 125	20 C			1				1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		400 X 500	125 M			1				1			
										66	93.0	2188	
333-04	Y	10 X 10	2 C			3				3			70% pyrite
		15 X 15	3 C			5				5			~50 grains of native copper ((=100u)
		15 X 25	4 C			6		1		7			Gold grains mounted on SEM stub.
		15 X 50	7 C			2				2			
		25 X 25	5 C			9		1		10			
		25 X 50	8 C			9	2			11			
		25 X 75	10 C	2		5				7			
		25 X 100	13 C			2				2			
		25 X 125	15 C			2				2			
		50 X 50	10 C	1		11				12			
		50 X 75	13 C			8				8			
		50 X 100	15 C			4				4			
		50 X 200	25 C			1				1			
		75 X 75	15 C			1				1			
		75 X 100	18 C			1				1			
		200 X 275	75 M			1				1			
										77	70.7	691	
334-01	Y	25 X 50	8 C			1				1			1% pyrite
		50 X 50	10 C			3				3			1% marcasite
		50 X 100	15 C			1				1			
		75 X 100	18 C	1						1			
										6	16.5	140	
335-01	Y	25 X 25	5 C			1				1			10% pyrite
		25 X 50	8 C			1				1			
		25 X 100	13 C	1						1			
		50 X 75	13 C			1				1			
		50 X 100	15 C			1				1			
		75 X 100	18 C			1				1			
		75 X 150	22 C			1				1			
										7	36.5	127	
335-02	Y	25 X 50	8 C			3				3			15% pyrite
		50 X 50	10 C			4				4			~10 grains of arsenopyrite
		50 X 75	13 C			2				2			
		50 X 100	15 C			1				1			
		75 X 100	18 C			1	1			2			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
										12	25.7	172	
335-03	Y	15 X 15	3 C			1				1			10% pyrite
		15 X 50	7 C			1				1			
		25 X 25	5 C			1				1			
		25 X 50	8 C			4				4			
		25 X 75	10 C	1						1			
		25 X 100	13 C			1				1			
		50 X 50	10 C	1		4				5			
		50 X 75	13 C			1				1			
		75 X 75	15 C			1				1			
										16	49.4	60	
336-01	Y	15 X 15	3 C			5				5			60% pyrite
		15 X 25	4 C			4				4			
		25 X 25	5 C			8				8			
		25 X 50	8 C			1				1			
		25 X 75	10 C	1		2				3			
		50 X 50	10 C			2				2			
		50 X 75	13 C			4				4			
		50 X 100	15 C			1				1			
		75 X 75	15 C			1				1			
										29	56.2	73	
336-02	Y	15 X 15	3 C			1				1			60% pyrite
		15 X 25	4 C			1				1			
		25 X 25	5 C	1		2				3			
		25 X 50	8 C			3		2		5			
		50 X 75	13 C			3		1		4			
		50 X 100	15 C			1				1			
		50 X 150	20 C	1		1				2			
		75 X 75	15 C	1		1				2			
										19	36.8	188	
336-03	Y	15 X 15	3 C			1	1			2			40% pyrite
		25 X 25	5 C			2				2			~1000 grains of arsenopyrite
		25 X 75	10 C			1				1			~30 grains of native copper
		50 X 75	13 C	1						1			
		75 X 125	20 C	1						1			
		75 X 150	75 M			1				1			
		125 X 125	50 M			1				1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
										9	27.9	541	
336-04	Y	25 X 50	8 C			1	1			2			30% pyrite
		25 X 75	10 C			1				1			*30 grains of native copper
		50 X 50	10 C			4				4			
		50 X 75	13 C			2		2		4			
		75 X 100	18 C			1				1			
		100 X 125	22 C			1				1			
										13	57.4	100	
337-01	N	50 X 75	13 C			1				1			
										1	6.3	59	
337-02	Y	25 X 50	8 C			1				1			7% pyrite
		50 X 75	13 C			2				2			
		50 X 100	15 C			1				1			
		75 X 75	15 C			1				1			
		75 X 125	20 C			1				1			
		175 X 350	25 M				1			1			
										7	35.3	468	
337-03	Y	15 X 50	7 C			1				1			7% pyrite
		25 X 25	5 C			1				1			
		25 X 50	8 C			1				1			
		50 X 50	10 C			1				1			
		375 X 425	25 M	1						1			
										5	55.0	552	
338-01	N	25 X 50	8 C	1						1			
		75 X 100	18 C	1						1			
		100 X 100	20 C	1						1			
										3	44.7	58	
338-02	N	NO VISIBLE GOLD											
338-03	Y	50 X 50	10 C			1				1			10% pyrite
		50 X 75	13 C	1		1		1		3			
		50 X 125	18 C	1						1			
		50 X 200	25 C				1			1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
										6	31.7	165	
338-04	N	25 X 50	8 C			1				1			
		25 X 75	10 C			1				1			
		125 X 150	27 C	1						1			
										3	14.2	289	
338-05	N	NO VISIBLE GOLD											
338-06	N	15 X 50	7 C			1				1			
		25 X 25	5 C			1				1			
		125 X 175	29 C	1						1			
										3	33.9	148	
338-07	N	25 X 25	5 C		1	1				2			15% pyrite
		25 X 50	8 C			2				2			~100 grains of arsenopyrite
		25 X 75	10 C			1				1			~100 grains of native copper
		50 X 50	10 C	1		1				2			
		50 X 75	13 C			1				1			
		75 X 150	22 C				1			1			
										9	32.1	102	
339-01	Y	25 X 50	8 C			1				1			4% pyrite; Tr siderite
		25 X 75	10 C			1				1			5 grains of arsenopyrite
		50 X 50	10 C			1				1			~25 grains of native copper
		50 X 75	13 C					1		1			
		75 X 100	18 C			1				1			
										5	49.0	38	
339-02	Y	25 X 50	8 C			2				2			15% pyrite
		50 X 75	13 C			3				3			~15 grains of native copper
		50 X 100	15 C			1				1			
		50 X 125	18 C			1	1			2			
		75 X 100	18 C			1				1			
		75 X 125	20 C			1				1			
		100 X 150	25 C			1				1			
										11	44.0	212	
339-03	Y	25 X 25	5 C			4	1			5			35% pyrite

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		25 X 50	8 C			5	1			6			~10 grains of native copper
		25 X 75	10 C			2				2			
		50 X 50	10 C	2		3		1		6			
		50 X 75	13 C	1	1	4		1		7			
		50 X 75	50 M				1			1			
		50 X 100	15 C			1		1		2			
		50 X 125	18 C			1				1			
		75 X 75	15 C			3				3			
		75 X 100	18 C			2				2			
		75 X 125	20 C			2				2			
		100 X 125	22 C				1			1			
		125 X 125	25 M		1					1			
										39	89.2	230	
339-04	Y	50 X 100	15 C			1				1			25% pyrite
		75 X 125	20 C	1						1			5 grains of arsenopyrite
										2	27.3	78	
339-05	Y	15 X 15	3 C			2				2			70% pyrite
		15 X 25	4 C			1				1			~25 grains of native copper
		15 X 50	7 C			3				3			Gold grains mounted on SEM stub.
		25 X 25	5 C			7				7			
		25 X 50	8 C			6	1			7			
		25 X 75	10 C	1		3				4			
		25 X 100	13 C	1						1			
		50 X 50	10 C			4	1			5			
		50 X 75	13 C	1		6				7			
		50 X 100	15 C			1				1			
		50 X 150	20 C			1				1			
		75 X 75	15 C			1				1			
		75 X 100	18 C	1			1			2			
		75 X 125	20 C				1			1			
		100 X 175	75 M				1			1			
		150 X 150	29 C			1	2			3			
		150 X 200	50 M			2				2			
		150 X 275	75 M				1			1			
										50	87.3	982	
339-06	Y	25 X 50	8 C			1				1			25% pyrite
		50 X 50	10 C			1			1	2			
		50 X 75	50 M			2	2			4			
		75 X 75	15 C			1				1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
TOTAL # OF PANNINGS													
RR-97													
		100 X 125	22 C			1				1			
										9	26.0	350	
339-07	Y	15 X 25	4 C			1				1			25% pyrite
		15 X 50	7 C			1				1			*10 grains of native copper
		25 X 25	5 C			1				1			
		25 X 50	8 C			2				2			
		25 X 75	10 C			2				2			
		50 X 50	10 C			1				1			
		50 X 75	13 C			1				1			
		50 X 100	15 C			1				1			
		75 X 150	50 M	1						1			
		150 X 250	38 C	1						1			
										12	28.9	622	
339-08	Y	15 X 50	7 C			1				1			7% pyrite
		25 X 25	5 C			1				1			
		25 X 50	8 C			2				2			
		25 X 75	10 C			2				2			
		25 X 100	13 C			1				1			
		50 X 75	25 M					1		1			
		50 X 200	25 C	1						1			
		75 X 100	18 C			1				1			
										10	30.9	182	
339-09	Y	15 X 15	3 C			3				3			10% pyrite
		15 X 25	4 C			1				1			*10 grains of native copper
		25 X 25	5 C			2				2			
		25 X 50	8 C			2				2			
		25 X 75	10 C		1	2				3			
		50 X 50	10 C	1		1				2			
		50 X 75	13 C			1				1			
		75 X 100	18 C	2						2			
										16	52.9	68	
340-01	N	25 X 25	5 C			1				1			
		25 X 50	8 C			1				1			
										2	43.6	2	
340-02	N	25 X 25	5 C	1						1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
TOTAL # OF PANNINGS													
RR-97										1	42.7	1	
340-03	Y	15 X 15	3 C				1			1			35% pyrite
		25 X 50	8 C			1		1		2			~25 grains of native copper.
		50 X 50	10 C			3		1		4			
		50 X 75	13 C			1				1			
		50 X 100	15 C			1				1			
		75 X 250	31 C				1			1			
										10	37.6	218	
340-04	Y	25 X 50	8 C			1				1			15% pyrite
		50 X 75	13 C			2		1		3			~10 grains of native copper.
		75 X 75	15 C			1				1			
		75 X 150	22 C			1				1			
										6	54.1	73	
340-05	Y	25 X 25	5 C			2				2			15% pyrite
		25 X 50	8 C			3				3			~10 grains of native copper.
										5	36.9	8	
340-06	N	25 X 50	8 C			2				2			
		25 X 75	10 C			1				1			
		25 X 100	13 C			1				1			
										4	34.1	21	
340-07	Y	15 X 15	3 C	1		1				2			35% pyrite
		15 X 50	7 C			1				1			~25 grains of native copper.
		25 X 25	5 C			1				1			
		25 X 50	8 C			2				2			
		25 X 75	10 C			2				2			
		50 X 75	13 C			2				2			
		50 X 125	18 C	1						1			
		75 X 75	15 C			1				1			
		75 X 125	20 C		1					1			
		75 X 150	22 C		1		1			2			
		125 X 175	29 C		1					1			
		175 X 300	75 M			1				1			
		250 X 375	56 C		1					1			
										18	52.1	1657	

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
341-01	Y	25 X 25	5 C			1				1			40% pyrite
		25 X 50	8 C			3				3			10 grains of arsenopyrite.
		25 X 100	13 C			1				1			
		50 X 50	10 C			1				1			
		125 X 125	75 M	1						1			
										7	41.6	231	
342-01	Y	25 X 25	5 C			4				4			20% pyrite
		25 X 50	8 C			2				2			
		25 X 75	10 C			2	1			3			
		50 X 50	10 C	2		4				6			
		50 X 75	13 C			1				1			
		50 X 100	15 C	2						2			
		75 X 100	18 C	2	1					3			
		125 X 125	75 M	1						1			
										22	39.6	391	
342-02	Y	25 X 25	5 C				1			1			40% pyrite
		25 X 50	8 C			4				4			
		50 X 50	10 C	1		5				6			
		50 X 100	15 C			1				1			
		75 X 100	18 C			2				2			
		75 X 125	20 C		1					1			
		75 X 225	29 C		1					1			
										16	50.4	210	
342-03	N	50 X 50	10 C			1				1			~100 grains of native copper
		50 X 75	13 C			2				2			observed on the table.
		75 X 125	20 C			1				1			
										4	66.1	37	
342-04	Y	25 X 50	8 C			2				2			20% pyrite
		25 X 75	10 C			2				2			5 grains of arsenopyrite.
		50 X 100	15 C			1				1			
		75 X 100	18 C			1				1			
										6	42.1	52	
343-01	N	50 X 50	10 C	1						1			
		50 X 75	13 C			1				1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		75 X 100	50 M	1						1			
										3	23.5	146	
343-02	Y	25 X 25	5 C				1			1			25% pyrite
		25 X 75	10 C				1			1			~10 grains of arsenopyrite.
		50 X 50	10 C	1						1			~25 grains of native copper.
		50 X 75	13 C				1			1			
		50 X 175	22 C				1			1			
		75 X 100	18 C			2				2			
		75 X 150	22 C					1		1			
										8	52.0	136	
343-03	Y	15 X 15	3 C			1				1			20% pyrite
		25 X 25	5 C				1			1			
		25 X 50	8 C			3	1			4			
		25 X 75	10 C			1				1			
		50 X 50	10 C			2				2			
		50 X 75	13 C			3	1			4			
		50 X 100	15 C			1				1			
		75 X 75	15 C			1				1			
		75 X 125	20 C			1				1			
										16	59.5	87	
343-04	Y	25 X 25	5 C				1			1			25% pyrite
		25 X 50	8 C			4				4			~30 grains of native copper
		25 X 75	10 C			1				1			
		25 X 100	13 C				1			1			
		25 X 125	15 C				1			1			
		50 X 50	10 C			2				2			
		50 X 100	15 C					1		1			
		75 X 100	18 C				1			1			
										12	43.3	83	
343-05	N	25 X 25	5 C			1				1			
		25 X 75	10 C			1				1			
		50 X 75	13 C			2				2			
										4	46.5	21	
343-06	Y	25 X 50	8 C	1	1	1	1			4			7% pyrite
		25 X 100	13 C					1		1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
TOTAL # OF PANNINGS													
RR-97													
		50 X 50	10 C			1				1			
		50 X 75	13 C				1			1			
		100 X 125	22 C				1			1			
										8	28.1	121	
344-01	Y	25 X 25	5 C			1				1			5% pyrite
		25 X 50	8 C			1				1			
		25 X 75	10 C			1	1			2			
		50 X 50	10 C	1		2		1		4			
		50 X 75	13 C			1				1			
		50 X 100	15 C			1				1			
		100 X 100	20 C				1			1			
		125 X 200	25 M				1			1			
										12	59.7	146	
345A-01	N	50 X 50	10 C			1				1			
		50 X 75	13 C			1				1			
										2	42.9	13	
345A-02	Y	15 X 15	3 C			3				3			10% pyrite
		25 X 25	5 C			4				4			~100 grains of native copper
		25 X 50	8 C			3	1			4			((=1500u)
		25 X 75	10 C			1	1			2			
		50 X 50	10 C			2				2			
		50 X 75	13 C			3				3			
		75 X 100	18 C			2				2			
		100 X 175	27 C			1				1			
										21	44.5	184	
346-01	Y	10 X 10	2 C			1		1		2			25% pyrite
		15 X 15	3 C			3				3			Gold grains mounted on SEM stub.
		15 X 25	4 C			4		1		5			
		15 X 50	7 C			2		4		6			
		15 X 75	9 C			1		1		2			
		25 X 25	5 C			22		4		26			
		25 X 50	8 C			30		3		33			
		25 X 75	10 C			9		1		10			
		25 X 100	13 C			3	1			4			
		25 X 125	15 C			2				2			
		50 X 50	10 C			8	4	1		13			
		50 X 75	13 C	2		6	1			9			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		50 X 100	15 C			4				4			
		50 X 125	18 C			3				3			
		75 X 100	18 C			2				2			
		75 X 125	20 C			2				2			
		150 X 250	38 C	1						1			
										127	132.7	276	
347-01	Y	15 X 15	3 C			2				2			60% pyrite
		25 X 25	5 C			4	6		1	11			
		25 X 50	8 C			1	4	1		6			
		25 X 75	10 C			1	1			2			
		50 X 50	10 C	2		6				8			
		50 X 75	13 C			5	1		1	7			
		50 X 100	15 C	1						1			
		75 X 100	18 C		1	1				2			
		75 X 125	20 C			2				2			
										41	79.8	137	
348-01	Y	15 X 15	3 C			1				1			2% pyrite
		25 X 75	10 C			1				1			
		50 X 50	10 C			3				3			
		50 X 75	13 C	1						1			
										6	22.4	51	
349-01	N	NO VISIBLE GOLD											
350-01	N	25 X 50	8 C	1						1			
		50 X 75	13 C	1		1				2			
		50 X 50	10 C	1						1			
										4	30.5	33	
352-01	Y	15 X 15	3 C			1				1			5% pyrite
		25 X 25	5 C	1						1			
		25 X 50	8 C			2				2			
		50 X 75	13 C			1				1			
										5	26.5	21	
353-01	N	25 X 50	8 C			1				1			
										1	21.5	4	

TOTAL # OF PANNINGS

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
TOTAL # OF PANNINGS													
RR-97													
353-02	Y	15 X 50	7 C			1				1			5% pyrite
		25 X 25	5 C			1				1			
		25 X 50	8 C	1		1			1	3			
		25 X 75	10 C	2		2				4			
		50 X 50	10 C			4	1			5			
		50 X 125	25 M	1						1			
		75 X 75	15 C			1				1			
		75 X 100	18 C	1						1			
		100 X 150	25 C	1						1			
										18	34.6	232	
353-03	Y	15 X 15	3 C		1					1			7% pyrite
		25 X 25	5 C		1					1			~10 grains of native copper.
		25 X 50	8 C	1						1			
		50 X 50	10 C			1				1			
		50 X 75	13 C			2	1			3			
		50 X 100	15 C				1			1			
		75 X 150	22 C			1				1			
		100 X 125	22 C			1				1			
										10	31.3	202	
353-04	N	NO VISIBLE GOLD											
353-05	Y	15 X 15	3 C				1			1			5% pyrite
		25 X 25	5 C		1					1			~10 grains of arsenopyrite
		25 X 50	8 C		1	1	1			3			
		25 X 75	10 C			1				1			
		50 X 50	10 C			1				1			
		50 X 100	15 C			1				1			
		100 X 125	22 C			1				1			
										9	24.1	142	
353-06	N	50 X 75	13 C	1						1			
		50 X 100	15 C			1				1			
										2	32.5	31	
354-01	Y	15 X 15	3 C		1					1			30% pyrite
		25 X 25	5 C	2	1	1				4			
		25 X 50	8 C		1	1	1			3			
		25 X 75	10 C			1	1			2			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		50 X 50	10 C	1		1				2			
		50 X 75	13 C			1				1			
		50 X 100	15 C			1				1			
		75 X 100	18 C			1				1			
										15	55.2	57	
355-01	Y	15 X 15	3 C			1				1			40% pyrite
		25 X 25	5 C	1		2				3			
		25 X 50	8 C	1		3				4			
		25 X 75	10 C	2						2			
		50 X 50	10 C	3		1				4			
		50 X 100	15 C			1				1			
		75 X 150	50 M			1				1			
										16	25.7	270	
356-01	Y	15 X 25	4 C				1			1			20% pyrite
		25 X 25	5 C				2			2			
		25 X 50	8 C	1		3	1			5			
		25 X 100	13 C			1				1			
		50 X 50	10 C	1		3				4			
		50 X 75	13 C			2				2			
		75 X 100	18 C			1				1			
		75 X 125	20 C			1				1			
		100 X 100	20 C	1						1			
										18	31.9	200	
357-01	Y	15 X 15	3 C			1				1			5% pyrite
		15 X 25	4 C	1			1			2			
		25 X 25	5 C		1	4				5			
		25 X 50	8 C			5				5			
		50 X 50	10 C			4	1			5			
		50 X 75	13 C			2				2			
		50 X 100	15 C	1						1			
		50 X 125	18 C	1						1			
		75 X 75	15 C			1				1			
		100 X 100	20 C	1						1			
		125 X 125	25 C	1						1			
		200 X 275	44 C		1					1			
										26	65.4	423	
358-01	Y	15 X 25	4 C			1				1			0.5% pyrite

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		25 X 25	5 C	1						1			
		25 X 50	8 C			1	1			2			
		25 X 75	10 C	2						2			
		50 X 50	10 C			1				1			
		50 X 75	13 C			1				1			
										8	23.1	50	
358-02	N	25 X 75	10 C			1				1			
										1	29.2	7	
359-01	Y	10 X 10	2 C			1		1		2			20% pyrite
		15 X 15	3 C			7				7			
		15 X 25	4 C			1				1			
		15 X 50	7 C			2				2			
		25 X 25	5 C	1		1	1			3			
		25 X 50	8 C			1	1			2			
		25 X 75	10 C			1				1			
		50 X 50	10 C	1		4				5			
		50 X 75	13 C	1		1		1		3			
		75 X 100	18 C			1				1			
		100 X 100	20 C	1						1			
										28	50.5	103	
359-02	N	25 X 25	5 C			2				2			
		25 X 50	8 C			1				1			
										3	55.5	2	
359-03	Y	10 X 10	2 C		1					1			20% pyrite
		15 X 15	3 C				1			1			
		25 X 25	5 C		1	3				4			
		25 X 50	8 C			5	1			6			
		50 X 50	10 C	1		1				2			
		50 X 75	13 C	1		2				3			
		50 X 100	15 C			3				3			
		75 X 75	15 C			2				2			
		75 X 100	18 C			1				1			
										23	53.4	118	
359-04	Y	25 X 75	10 C			1				1			
		50 X 50	10 C			1				1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
TOTAL # OF PANNINGS													
RR-97													
		75 X 125	20 C			1				1			
										3	29.7	63	
360-01	Y	10 X 10	2 C			1				1			40% pyrite
		15 X 15	3 C			1	1			2			~50 grains of native copper.
		25 X 25	5 C	1		8				9			
		25 X 50	8 C			4	2			6			
		25 X 75	10 C			1				1			
		50 X 50	10 C	1		4				5			
		50 X 75	13 C	3		4				7			
		75 X 125	20 C			1				1			
		100 X 125	22 C		1					1			
										33	55.2	147	
360-02	Y	25 X 25	5 C		1					1			25% pyrite
		25 X 100	13 C			1				1			~150 grains of native copper.
		50 X 50	10 C		1					1			
		50 X 100	15 C			1				1			
		75 X 100	18 C	1						1			
		75 X 125	20 C				1			1			
										6	45.0	83	
360-03	Y	10 X 10	2 C				1			1			20% pyrite
		15 X 15	3 C			3	2			5			~50 grains of native copper.
		15 X 50	7 C	1						1			
		25 X 25	5 C	1		1	1			3			
		25 X 50	8 C	2		4				6			
		50 X 50	10 C			4				4			
		50 X 75	13 C	1			1			2			
		75 X 75	15 C	2						2			
		75 X 125	20 C	1		1				2			
		125 X 300	50 M	1						1			
										27	35.8	653	
360-04	Y	15 X 15	3 C			2	1			3			20% pyrite
		15 X 50	7 C			1	1			2			~50 grains of native copper.
		25 X 25	5 C	1		1	1			3			
		25 X 50	8 C	1		2	1			4			
		25 X 75	10 C			1				1			
		50 X 50	10 C	1						1			
		50 X 75	13 C			2				2			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		50 X 100	25 M	1						1			
		75 X 125	20 C			1				1			
										18	27.2	155	
360-05	Y	50 X 50	10 C			1				1			60% pyrite
		75 X 125	20 C		1					1			~20 grains of native copper.
		250 X 700	77 C		1					1			
										3	72.3	1830	
360-06	Y	25 X 25	5 C			1	1			2			50% pyrite
		25 X 50	8 C	1		1		1		3			10 grains of arsenopyrite
		50 X 100	15 C			2	1			3			~20 grains of native copper.
		125 X 175	29 C		1					1			
										9	41.3	173	
360-07	Y	25 X 25	5 C			3	1	1	1	6			50% pyrite
		25 X 50	8 C			1				1			
		25 X 75	10 C			1				1			
		50 X 75	13 C			1		1		2			
		50 X 100	15 C				1			1			
										11	39.2	46	
361-01	Y	25 X 25	5 C		1	1				2			30% pyrite
		25 X 50	8 C			3	1			4			
		50 X 50	10 C			1				1			
		50 X 75	13 C				1			1			
		50 X 100	15 C			1				1			
		75 X 125	20 C			1				1			
		125 X 200	31 C		1					1			
										11	31.0	301	
361-02	N	75 X 125	50 M			1				1			
										1	41.7	90	
361-03	Y	15 X 15	3 C			1				1			7% pyrite
		15 X 25	4 C			2				2			
		25 X 25	5 C			6				6			
		25 X 50	8 C	1		1				2			
		25 X 75	10 C			1			1	2			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		50 X 50	10 C			3				3			
		50 X 75	13 C	1						1			
		50 X 100	15 C			1				1			
		75 X 75	15 C			1				1			
										19	56.3	52	
361-04	Y	15 X 15	3 C				1			1			10% pyrite
		15 X 100	12 C	1						1			
		25 X 25	5 C		1			1		2			
										4	18.0	19	
361-05	Y	25 X 25	5 C		1	1				2			20% pyrite
		25 X 50	8 C		1	2		1		4			
		50 X 50	10 C		1	1				2			
		50 X 75	13 C			1				1			
		50 X 125	18 C		1					1			
		75 X 100	18 C			1				1			
		75 X 125	20 C			1				1			
										12	38.9	120	
361-06	Y	25 X 25	5 C			2				2			10% pyrite
		25 X 75	10 C			1				1			Trace arsenopyrite
		50 X 50	10 C			1				1			
		100 X 100	20 C	1						1			
										5	37.7	51	
361-07	Y	25 X 50	8 C				1	1		2			20% pyrite
		25 X 75	10 C			1				1			10% siderite
		75 X 125	20 C			1				1			
										4	93.9	20	
361-08	Y	25 X 25	5 C				1			1			20% pyrite
		25 X 50	8 C			1				1			Trace siderite
		25 X 175	20 C	1						1			
		50 X 75	13 C	1	1	2				4			
		75 X 75	15 C	1		1				2			
		75 X 100	18 C				1			1			
		75 X 125	20 C			1				1			
		100 X 125	22 C	1						1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97										12	59.4	152	
361-09	Y	25 X 25	5 C	1						1			
										1	68.1	0	
361-10	Y	25 X 25	5 C	1	1	2			1	5			25% pyrite
		25 X 50	8 C	2	1	6				9			
		25 X 75	10 C				1			1			
		50 X 50	10 C	1		5		1		7			
		50 X 75	13 C		1	2				3			
		50 X 100	15 C		1					1			
		50 X 125	18 C	1		1				2			
		50 X 150	20 C		1					1			
		75 X 75	15 C	1		1				2			
		75 X 100	18 C		1					1			
		75 X 125	20 C		1					1			
		100 X 100	20 C	1						1			
		100 X 125	22 C		1					1			
										35	74.6	202	
361-11	Y	15 X 15	3 C			1				1			20% pyrite
		25 X 25	5 C	1	1	1				3			
		25 X 50	8 C	2	1	2				5			
		50 X 50	10 C	1		2				3			
		50 X 75	13 C	1		1				2			
		75 X 150	22 C	1		1				2			
										16	74.5	81	
362-01	Y	15 X 15	3 C					1		1			10% pyrite
		25 X 25	5 C			1	1			2			
		25 X 125	15 C				1			1			
		50 X 50	10 C				1			1			
		50 X 75	13 C				2	1		3			
		50 X 100	15 C			1	1	1		3			
		100 X 175	27 C			1				1			
										12	26.5	293	
362-02	N	25 X 50	8 C			1				1			
										1	43.1	2	

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
362-03	Y	25 X 25	5 C		1	2	1			4			15% pyrite
		25 X 50	8 C			1				1			
		25 X 75	10 C			1				1			
		50 X 50	10 C					1		1			
		50 X 75	13 C	1		1				2			
		50 X 100	15 C			2				2			
		75 X 125	20 C			2				2			
		125 X 175	29 C	1						1			
										14	55.6	189	
362-04	Y	15 X 15	3 C	2		2				4			20% pyrite
		15 X 50	7 C	1		1				2			
		25 X 25	5 C			1				1			
		25 X 50	8 C	2		1				3			
		50 X 75	13 C			1	1			2			
		50 X 150	20 C		1					1			
		100 X 150	25 C		1					1			
		150 X 250	75 M				1			1			
										15	47.9	585	
362-05	Y	25 X 25	5 C			1				1			15% pyrite
		25 X 50	8 C	1		4		1		6			
		50 X 50	10 C			2	1			3			
		50 X 75	13 C				1			1			
		75 X 100	18 C		1					1			
										12	53.9	46	
362-06	Y	25 X 25	5 C	1		1	1			3			10% pyrite
		25 X 50	8 C	1		1				2			
		50 X 50	10 C			1				1			
		75 X 100	18 C				1			1			
		75 X 150	22 C			1				1			
										8	40.2	89	
362-07	N	100 X 175	75 M			1				1			
										1	31.7	335	
362-08	Y	25 X 50	8 C	1		1		2		4			15% pyrite
		50 X 100	15 C	2				1		3			~20 grains of native copper.
		125 X 150	27 C		1					1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
										8	34.2	178	
362-09	Y	15 X 15	3 C				1			1			10% pyrite
		15 X 25	4 C			2				2			~50 grains of native copper.
		25 X 50	8 C	1			1			2			
		50 X 50	10 C	2		2				4			
		50 X 75	13 C				1			1			
		50 X 100	15 C	1		1				2			
		75 X 125	20 C	1						1			
										13	23.8	173	
362-10	Y	15 X 25	4 C				2			2			3% pyrite
		25 X 25	5 C	1			3			4			~50 grains of native copper.
		25 X 50	8 C				4			4			
		25 X 100	13 C				1			1			
		50 X 50	10 C				3			3			
		50 X 100	15 C				1			1			
		75 X 125	20 C				1			1			
										16	34.4	103	
362-11	Y	15 X 15	3 C			1				1			5% pyrite
		25 X 25	5 C	1						1			~25 grains of native copper.
		25 X 75	10 C			1				1			
		50 X 50	10 C			1				1			
		50 X 100	15 C	1						1			
										5	36.4	29	
363-01	Y	25 X 25	5 C			2				2			10% pyrite
		25 X 50	8 C		1	2	2			5			~50 grains of native copper.
		25 X 100	13 C			1				1			
		50 X 50	10 C			1				1			
		50 X 75	13 C			1				1			
		75 X 75	15 C			1				1			
		125 X 125	25 C				1			1			
										12	52.6	94	
363-02	Y	25 X 25	5 C			3				3			10% pyrite
		25 X 50	8 C	2		4	1			7			~10 grains of native copper.
		25 X 100	13 C			2				2			
		50 X 50	10 C	2		2				4			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		50 X 75	13 C			1				1			
		50 X 125	18 C	1						1			
										18	47.8	74	
363-03	Y	10 X 10	2 C			2				2			10% pyrite
		15 X 15	3 C	1		1				2			
		25 X 25	5 C			2	1			3			
		25 X 50	8 C			5				5			
		25 X 75	10 C	1						1			
		50 X 50	10 C	1						1			
		50 X 75	13 C	1						1			
		50 X 100	15 C			2				2			
		50 X 125	18 C	1						1			
		75 X 75	15 C	1						1			
		75 X 150	75 M	1						1			
		100 X 125	50 M			1				1			
										21	55.6	289	
363-04	Y	15 X 15	3 C			1				1			3% pyrite
		15 X 25	4 C		1		1			2			
		25 X 25	5 C			3	1			4			
		25 X 50	8 C	1		3				4			
		25 X 75	10 C	1						1			
		50 X 50	10 C	1		3				4			
		50 X 75	13 C		1	1				2			
		50 X 125	18 C	1						1			
		75 X 100	18 C			1				1			
		125 X 300	40 C		1					1			
										21	40.0	444	
363-05	Y	25 X 25	5 C			1				1			3% pyrite
		25 X 50	8 C			4				4			
		25 X 75	10 C			1				1			
		50 X 50	10 C	1		2				3			
		50 X 75	13 C			1				1			
		50 X 100	15 C					1		1			
		75 X 100	18 C			1				1			
		75 X 125	20 C				1			1			
										13	47.3	98	
363-06	Y	15 X 15	3 C			3				3			5% pyrite

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		25 X 25	5 C			4				4			
		25 X 50	8 C	3		1	1			5			
		25 X 75	10 C			1				1			
		50 X 50	10 C			1				1			
		75 X 75	15 C			1				1			
										15	39.5	39	
364-01	Y	15 X 25	4 C				1		1	2			85% pyrite
		25 X 25	5 C	1		3		1		5			~200 grains of native copper
		25 X 50	8 C	1		12	2	2		17			((=125u).
		50 X 50	10 C			3			1	4			
		50 X 100	15 C				1			1			
		125 X 175	29 C		1					1			
										30	103.9	76	
364-02	Y	15 X 50	7 C			1				1			80% pyrite
		25 X 25	5 C			2				2			~100 grains of native copper
		25 X 50	8 C			1				1			((=250u).
		50 X 50	10 C			2				2			
		50 X 75	13 C			1				1			
		50 X 100	15 C		1	1				2			
										9	86.5	26	
364-03	Y	15 X 50	7 C			1		1		2			80% pyrite
		25 X 50	8 C			2		2		4			~2000 grains of native copper
		50 X 50	10 C	1		1				2			((=250u).
		50 X 75	13 C	1		1	1			3			
		125 X 125	25 C	1						1			
										12	35.6	136	
364-04	Y	10 X 10	2 C			3		13	3	19			90% pyrite
		15 X 15	3 C			25	5	30	4	64			~500 grains of native copper
		15 X 25	4 C			18	3	21	2	44			((=250u).
		15 X 50	7 C			11	3	15	3	32			~150 grains of cobaltite
		15 X 75	9 C			5	1	3		9			~150 grains of tellurobismuthite
		15 X 100	12 C			1				1			~25 grains of galena
		25 X 25	5 C		1	33	5	39	7	85			Gold grains from a representative
		25 X 50	8 C			45	5	38	6	94			1/4 split of HMC were mounted
		25 X 50	25 C			3		2		5			on a SEM stub.
		25 X 75	10 C			21	4	11	1	37			Photographs taken of gold grain
		25 X 100	13 C			1	1	3		5			population.

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		25 X 125	15 C					1		1			
		50 X 50	10 C			31	4	23	3	61			
		50 X 50	50 C					2		2			
		50 X 75	13 C		1	30	4	18	6	59			
		50 X 100	15 C			3	2	8	1	14			
		50 X 100	50 C			3		3		6			
		50 X 125	18 C			2	4	2	2	10			
		50 X 150	20 C	1		1		1		3			
		50 X 200	25 C			1				1			
		75 X 75	15 C			5		2	1	8			
		75 X 75	50 C					1		1			
		75 X 100	18 C			3	2	4	1	10			
		75 X 125	50 C		2	2	1	3		8			
		75 X 125	75 C			1		2		3			
		75 X 150	22 C			1				1			
		75 X 175	25 C			1		1	1	3			
		100 X 100	20 C			1		1		2			
		100 X 125	75 C			1		2		3			
		100 X 150	75 C					1		1			
		100 X 200	29 C						1	1			
		125 X 225	75 C			1	1			2			
		125 X 250	75 C			1				1			
		175 X 200	36 C			1				1			
		150 X 350	100 C			1				1			
										598	119.4	2707	
364-05	Y	15 X 50	7 C			1				1			85% pyrite
		25 X 25	5 C	3		5		1		9			~150 grains of native copper
		25 X 50	8 C	3		8		1	1	13			((=125u).
		25 X 75	10 C	2		2	1			5			~100 grains of cobaltite
		50 X 50	10 C	1					1	2			25 grains of tellurobismuthite
		50 X 75	13 C	3	1	1				5			
		50 X 100	15 C	2	1	1	1			5			
		75 X 100	18 C	1			1			2			
		100 X 150	25 C				1			1			
		125 X 300	100 M			1				1			
		150 X 300	42 C	1						1			
										45	162.0	386	
364-06	Y	15 X 15	3 C				1			1			80% pyrite
		15 X 25	4 C			1	1			2			~50 grains of native copper
		25 X 25	5 C			2				2			((=125u).
		25 X 50	8 C			1	3	1	1	6			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
TOTAL # OF PANNINGS													
RR-97													
		25 X 75	10 C			2	1			3			
		50 X 50	10 C			4	3			7			
		50 X 75	13 C			1				1			
		50 X 125	18 C			1				1			
		50 X 150	20 C			1				1			
		75 X 125	20 C	1			1			2			
		75 X 175	25 C		1					1			
		100 X 200	29 C		1					1			
		100 X 125	100 M				1			1			
		125 X 150	50 M			1				1			
		200 X 200	125 M				1			1			
		200 X 300	46 C				1			1			
										32	116.0	793	
365-01	N	25 X 25	5 C			1				1			
										1	94.8	0	
365-02	Y	25 X 25	5 C			6	1			7			80% pyrite
		25 X 50	8 C	1		7	3			11			~10% grains of galena.
		25 X 75	10 C			2				2			
		25 X 100	13 C			2				2			
		50 X 50	10 C	4	1	6	2			13			
		50 X 75	13 C			6	4			10			
		50 X 75	50 M		1					1			
		50 X 100	15 C	1	1		1			3			
		50 X 125	18 C				1			1			
		75 X 75	15 C			1				1			
		75 X 100	18 C	1		1	1			3			
										54	100.9	164	
365-03	Y	15 X 15	3 C	1		2	1	1		5			80% pyrite
		15 X 25	4 C			1	2			3			~100% grains of galena((=125u).
		25 X 25	5 C	1	1	2	1	2		7			
		25 X 50	8 C		1	3	1		1	6			
		25 X 75	10 C			2	1			3			
		25 X 100	13 C				1			1			
		50 X 50	10 C			2				2			
		50 X 75	13 C						1	1			
		50 X 100	15 C	2						2			
		50 X 175	22 C				2			2			
		75 X 75	15 C			1				1			
		75 X 100	18 C			1				1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		100 X 175	27 C				1			1			
										35	105.1	128	
365-04	Y	10 X 10	2 C					1		1			80% pyrite
		15 X 15	3 C			2				2			~100% grains of galena ((=125u).
		15 X 25	4 C			2				2			
		25 X 25	5 C			1				1			
		25 X 50	8 C			2		1		3			
		50 X 50	10 C	1		5		1		7			
		50 X 75	13 C			4		1		5			
		50 X 75	50 M	1	1					2			
		50 X 100	50 M				1			1			
		75 X 75	15 C	1		1				2			
		75 X 100	18 C				1			1			
										27	125.9	86	
365-05	N	50 X 50	10 C			1				1			
		50 X 125	18 C			2				2			
		100 X 125	22 C	1						1			
										4	31.1	139	
365-06	Y	15 X 15	3 C			1				1			90% pyrite
		25 X 25	5 C			4				4			
		25 X 50	8 C	1		6		2		9			
		25 X 75	10 C	1		1				2			
		25 X 100	13 C			1				1			
		50 X 50	10 C			5				5			
		50 X 75	13 C			2	1	1		4			
		50 X 75	25 M	1		1	1			3			
		50 X 75	50 M	2	1		4			7			
		50 X 100	15 C				1			1			
		50 X 125	18 C			2	1			3			
		50 X 150	20 C				2			2			
		50 X 175	22 C			1				1			
		75 X 100	25 M			1	1			2			
		100 X 150	50 M				1			1			
										46	107.7	316	
365-07	Y	15 X 25	4 C			1	2			3			90% pyrite
		25 X 25	5 C	2		7	3	1		13			~50 grains of galena ((=125u).
		25 X 50	8 C	3		20	5	6	1	35			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		25 X 75	10 C			1				1			
		50 X 50	10 C	1		7	1	1		10			
		50 X 75	13 C	1		8	2	1	1	13			
		50 X 100	15 C	1	1	2	1			5			
		50 X 125	18 C				1			1			
		75 X 75	15 C			3				3			
										84	135.4	120	
365-08	Y	15 X 15	3 C	1		3		2		6			90% pyrite
		15 X 25	4 C			2		2		4			~50 grains of galena ((=125u).
		15 X 50	7 C			2				2			
		25 X 25	5 C	2		9	1			12			
		25 X 50	8 C	2		7	2	4	1	16			
		25 X 75	10 C			3	1	2		6			
		50 X 50	10 C	3		6	1			10			
		50 X 75	13 C	1			1			2			
		50 X 100	15 C				1			1			
		75 X 200	27 C				1			1			
										60	82.6	122	
366-01	Y	15 X 25	4 C			1				1			90% pyrite
		25 X 25	5 C	1						1			
		25 X 50	8 C	1	1	2				4			
		25 X 75	10 C			4				4			
		50 X 50	10 C			3	1	1		5			
		50 X 75	13 C			1	1	1		3			
		50 X 100	15 C						1	1			
		50 X 125	18 C			1				1			
		75 X 125	20 C			1				1			
										21	74.3	86	
366-02	Y	25 X 25	5 C			1				1			80% pyrite
		25 X 50	8 C			1	1			2			~50 grains of galena ((=125u).
		25 X 75	10 C				1			1			~50 grains of native copper ((=125u)
		50 X 50	10 C	1		2		2		5			
		50 X 75	13 C			2	1		1	4			
		50 X 100	15 C			1	1			2			
		50 X 125	18 C			1				1			
		75 X 75	15 C			1				1			
		75 X 100	18 C			2				2			
		75 X 150	22 C						1	1			
		100 X 125	22 C			1	1			2			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
TOTAL # OF PANNINGS													
RR-97													
		100 X 150	25 C			1				1			
		100 X 175	27 C			1				1			
		100 X 225	31 C			1				1			
		125 X 175	29 C		1					1			
		125 X 225	34 C			1				1			
										27	86.5	460	
366-03	Y	25 X 50	8 C			1				1			80% pyrite
		50 X 50	10 C				1	1		2			
		50 X 75	13 C			2	1			3			
		50 X 125	18 C			1				1			
		75 X 125	20 C			1				1			
										8	81.6	50	
366-04	Y	25 X 50	8 C			2		1		3			60% pyrite
		50 X 50	10 C			1	1		1	3			
		50 X 75	13 C			2				2			
		75 X 75	15 C			1				1			
		75 X 75	50 M		1					1			
		75 X 100	18 C			2				2			
										12	97.8	65	
366-05	Y	25 X 25	5 C			1				1			70% pyrite
		25 X 50	8 C			2		1		3			
		50 X 50	10 C			2				2			
		50 X 100	15 C			1		1		2			
		50 X 125	25 M				1			1			
		50 X 150	50 M				1			1			
		75 X 100	18 C			1				1			
		125 X 550	100 M		1					1			
										12	79.8	1172	
367-01	Y	15 X 25	4 C			2				2			75% pyrite
		25 X 25	5 C			4				4			
		25 X 50	8 C			4				4			
		25 X 75	10 C			1				1			
		25 X 125	15 C		1					1			
		50 X 50	10 C			2				2			
		50 X 75	13 C			2	2			4			
		75 X 75	15 C			1				1			
		75 X 100	18 C				1			1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
TOTAL # OF PANNINGS													
RR-97													
		100 X 175	27 C			1				1			
		100 X 200	100 M				1			1			
		125 X 250	50 M			1				1			
		250 X 375	150 M			1				1			
										24	47.7	3114	
368-01	Y	10 X 10	2 C				2		4	6			25% pyrite
		15 X 15	3 C				2		4	6			~2500 grains of native copper
		15 X 25	4 C				1		3	4			((=250u)
		15 X 50	7 C		1		2			3			~100 grains of native copper
		25 X 25	5 C	1		2	2		4	9			()250u)
		25 X 50	8 C		1	4		1	1	7			
		25 X 75	10 C			1				1			
		50 X 50	10 C	1						1			
		50 X 75	13 C			2				2			
		50 X 100	15 C						1	1			
										40	71.5	39	
369-01	N	NO VISIBLE GOLD											
369-02	Y	15 X 15	3 C	1			1			2			25% pyrite
		15 X 25	4 C				1			1			~20 grains of arsenopyrite
		25 X 75	10 C	2	1	1				4			~250 grains of native copper
		25 X 100	13 C			1				1			((=250u)
		50 X 50	10 C	1						1			~50 grains of native copper
		50 X 75	13 C	1						1			()250u)
		50 X 100	15 C	1						1			
		150 X 225	36 C				1			1			
										12	33.7	351	
369-03	Y	15 X 50	7 C			1				1			30% pyrite
		25 X 25	5 C	1						1			~150 grains of native copper
		25 X 50	8 C	1		1	1			3			((=250u)
		50 X 100	15 C			1				1			
		75 X 100	18 C	1						1			
										7	39.7	50	
369-04	N	50 X 75	13 C	1						1			
		50 X 100	15 C			1				1			
										2	38.9	26	

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
TOTAL # OF PANNINGS													
RR-97													
369-05	Y	25 X 25	5 C	1		1				2			30% pyrite-
		25 X 50	8 C	1						1			~200 grains of native copper
		25 X 75	10 C				1			1			((=250u)
		50 X 50	10 C			1				1			
		50 X 75	13 C	1						1			
		50 X 100	50 M	1						1			
										7	44.3	68	
369-06	N	25 X 50	8 C	2		1				3			
		50 X 50	10 C	1						1			
										4	48.4	9	
369-07	N	25 X 75	10 C			1				1			
		50 X 100	15 C			1				1			
		250 X 375	175 M			1				1			
										3	23.2	5561	
369-08	N	25 X 50	8 C	1						1			
		50 X 50	10 C			1				1			
		100 X 175	27 C	1						1			
										3	31.0	132	
369-09	N	25 X 50	8 C	1						1			
		25 X 75	10 C			1				1			
		75 X 100	18 C			1				1			
										3	43.2	30	
369-10	N	50 X 50	10 C	1		1				2			
		50 X 75	13 C	1						1			
										3	68.6	11	
370-01	N	15 X 15	3 C			1				1			
		25 X 50	8 C			1				1			
		75 X 125	20 C	1						1			
										3	26.5	60	
370-02	Y	15 X 15	3 C			1				1			20% pyrite

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
TOTAL # OF PANNINGS													
RR-97													
		15 X 50	7 C			2				2			~250 grains of native copper
		25 X 25	5 C			1				1			((=250u)
		25 X 50	8 C			2				2			~25 grains of native copper
													()250u)
										6	6.6	45	
371-01	N	NO VISIBLE GOLD											
372-01	N	50 X 50	10 C			1				1			
										1	12.6	15	
373-01	Y	25 X 50	8 C			2				2			20% pyrite
		25 X 75	10 C			1	1			2			
		50 X 100	15 C			2				2			
										6	51.8	35	
373-02	Y	15 X 15	3 C			2				2			15% pyrite
		15 X 25	4 C			2				2			~20 grains of galena ((=125u).
		15 X 50	7 C				1			1			
		25 X 25	5 C	2		4				6			
		25 X 50	8 C			2				2			
		25 X 75	10 C	2		2	1			5			
		50 X 100	15 C			1				1			
		75 X 75	15 C	1		1				2			
										21	26.2	125	
373-03	Y	15 X 15	3 C		1					1			15% pyrite
		25 X 25	5 C	2		1				3			
		25 X 50	8 C			5		1		6			
		25 X 75	10 C			1				1			
		50 X 50	10 C	1		3				4			
		50 X 75	13 C			1				1			
		50 X 100	15 C			1				1			
		75 X 100	18 C			1				1			
										18	57.3	62	
374-01	N	25 X 25	5 C	1						1			
		75 X 75	15 C	2						2			
										3	50.4	26	

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
374-02	N	25 X 25	5 C			1				1			
		25 X 50	8 C			1				1			
		25 X 75	10 C			1				1			
		50 X 75	13 C	1						1			
										4	12.0	56	
374-03	Y	25 X 50	8 C			2				2			20% pyrite
		25 X 75	10 C			1				1			
		50 X 75	13 C			1				1			
		50 X 150	20 C	1						1			
		75 X 125	50 M				1			1			
		100 X 150	25 C				1			1			
		125 X 175	75 M	1						1			
		150 X 200	34 C				1			1			
		250 X 375	56 C		1					1			
										10	35.0	2005	
374-04	Y	15 X 15	3 C				1			1			30% pyrite
		25 X 25	5 C	1	1		1			3			
		25 X 50	8 C			1				1			
		25 X 75	10 C	1			1			2			
		50 X 50	10 C	1	1	1				3			
		50 X 75	13 C				1			1			
		50 X 125	18 C				1			1			
										12	42.5	59	
375-01	N	25 X 50	8 C			1				1			
										1	8.2	10	
376-01	N	50 X 50	10 C			1				1			
										1	28.9	7	
376-02	Y	25 X 25	5 C	1		2				3			60% Pyrite
		25 X 50	8 C			1				1			
		25 X 75	10 C			1				1			
		50 X 50	10 C		1	1				2			
		50 X 50	50 M			1				1			
		50 X 75	13 C			2				2			
		50 X 150	20 C			1				1			
		75 X 75	15 C	1						1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		75 X 125	50 M	1						1			
										13	66.2	125	
376-03	N	50 X 50	10 C			1				1			
		125 X 150	27 C	1						1			
										2	8.1	496	
376-04	N	25 X 50	8 C			1				1			
		50 X 50	10 C			1				1			
		50 X 75	13 C	1						1			
		75 X 125	20 C			1				1			
										4	48.4	44	
376-05	N	50 X 75	13 C	1						1			
		75 X 100	18 C	1						1			
										2	29.8	46	
376-06	Y	25 X 25	5 C	1						1			50% Pyrite
		25 X 50	8 C			1				1			
		75 X 75	15 C	1						1			
		100 X 150	25 C		1					1			
		125 X 250	100 M			1				1			
		150 X 250	100 M	1						1			
										6	41.7	1439	
376-07	Y	25 X 25	5 C			1				1			30% Pyrite
		50 X 75	13 C			1				1			
		75 X 100	18 C	1						1			
		100 X 125	22 C			1				1			
		125 X 600	75 M	1						1			
										5	46.8	1655	
376-08	N	75 X 100	18 C	1						1			
		75 X 225	29 C	1						1			
		100 X 150	25 C	1						1			
		125 X 200	31 C	1						1			
										4	54.4	277	

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
376-09	N	50 X 75	13 C			1				1			
										1	38.9	10	
376-10	N	25 X 50	8 C			1				1			
		75 X 100	18 C	1						1			
										2	31.8	34	
376-11	N	15 X 25	4 C			1				1			
		50 X 50	10 C			1				1			
										2	47.6	4	
376-12	N	25 X 50	8 C			1				1			
		75 X 100	18 C	1						1			
										2	35.9	30	
376-13	Y	25 X 25	5 C	1		1				2			40% Pyrite
		25 X 50	8 C	1	1	1				3			
		25 X 75	10 C	1						1			
		50 X 50	10 C	1		1				2			
		50 X 75	13 C	1						1			
		50 X 100	15 C	1						1			
		75 X 100	18 C	1	1					2			
		100 X 125	22 C		1					1			
		100 X 225	31 C		1					1			
		175 X 225	38 C		1					1			
										15	105.1	225	
376-14	Y	25 X 25	5 C			1				1			10% Pyrite
		25 X 50	8 C	2						2			
		50 X 75	13 C			1				1			
		75 X 100	18 C	1						1			
		150 X 300	42 C		1					1			
										6	64.1	274	
377-01	Y	15 X 50	7 C			1				1			30% Pyrite
		25 X 25	5 C	1		1				2			
		25 X 50	8 C	1		1		1		3			
		50 X 50	10 C			1				1			
		50 X 75	13 C			2				2			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		50 X 100	15 C			1				1			
		75 X 175	25 C		1					1			
										11	101.1	48	
378-01	Y	15 X 25	4 C	1		1			1	3			20% Pyrite
		15 X 50	7 C			1	1			2			
		25 X 25	5 C	1	1	2				4			
		25 X 50	8 C	2	1	1				4			
		25 X 75	10 C			1				1			
		50 X 50	10 C	2	1	1				4			
		50 X 75	13 C	1	1					2			
		100 X 150	25 C		1					1			
		150 X 175	75 M		1					1			
										22	31.6	634	
379-01	N	25 X 25	5 C			1				1			
		25 X 50	8 C			1				1			
		50 X 75	13 C			1				1			
		75 X 125	20 C			1				1			
										4	49.5	40	
379-02	N	50 X 75	13 C			1				1			
		50 X 150	20 C			1				1			
										2	56.6	33	
379-03	N	50 X 50	10 C			1				1			
		50 X 125	18 C			1				1			
										2	70.5	17	
379-04	N	50 X 75	13 C	2						2			
										2	50.4	15	
379-05	N	25 X 50	8 C			1				1			
										1	45.2	2	
380-01	N	25 X 75	10 C			1				1			
										1	39.7	5	

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
380-02	N	50 X 75	13 C			1				1			
		75 X 125	20 C			1				1			
										2	30.0	62	
380-03	N	75 X 75	15 C	1						1			
										1	29.2	22	
380-04	N	50 X 75	13 C			1				1			
										1	41.8	9	
380-05	N	50 X 75	13 C			1				1			
										1	50.9	7	
380-06	N	25 X 25	5 C			1				1			
		25 X 50	8 C			1				1			
										2	52.9	2	
381-01	N	25 X 50	8 C			2				2			
										2	26.5	6	
381-02	N	25 X 50	8 C			1				1			
		50 X 50	10 C			1				1			
		75 X 100	18 C			1				1			
										3	45.9	28	
382-01	Y	15 X 25	4 C				1			1			50% Pyrite
		25 X 25	5 C			2				2			
		25 X 50	8 C		1	2				3			
		25 X 75	10 C			1	1			2			
		50 X 50	10 C			2	1	1		4			
		50 X 75	13 C			3				3			
		50 X 100	15 C			1				1			
		75 X 100	18 C		1					1			
		100 X 175	27 C				1			1			
		125 X 225	34 C				1			1			
										19	108.3	146	

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
382-02	Y	15 X 15	3 C			2				2			50% Pyrite
		15 X 50	7 C			1		1		2			
		25 X 25	5 C			1	1	1		3			
		25 X 50	8 C	1		2	2			5			
		50 X 50	10 C	1		2				3			
		50 X 75	13 C			3		1		4			
		50 X 100	15 C			2	1			3			
		75 X 125	20 C				1			1			
		75 X 175	25 C				1			1			
										24	97.5	92	
382-03	Y	25 X 25	5 C					1		1			70% Pyrite
		25 X 50	8 C		1		2			3			~50 grains of native copper ((=250u)
		50 X 50	10 C				1			1			
		50 X 75	13 C	1		1				2			
		75 X 100	18 C			1		1		2			
		75 X 125	20 C		1					1			
		75 X 150	22 C			1				1			
		100 X 125	22 C		1					1			
		125 X 200	50 M				1			1			
		225 X 375	54 C				1			1			
										14	158.2	350	
382-04	Y	25 X 25	5 C	1		1				2			80% Pyrite
		25 X 50	8 C	1		1				2			
		25 X 75	10 C	1						1			
		50 X 100	15 C		1					1			
		75 X 75	15 C			1				1			
		75 X 100	18 C				1			1			
										8	193.6	14	
383-01	Y	25 X 25	5 C	1		3				4			70% Pyrite
		25 X 50	8 C			1	1			2			
		50 X 75	13 C			1	1			2			
		50 X 100	15 C			1	1			2			
		75 X 175	25 C				1			1			
		125 X 175	29 C				1			1			
										12	82.6	122	
383-02	Y	25 X 50	8 C		1	1				2			70% Pyrite

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		25 X 75	10 C						1	1			
		25 X 100	13 C			1				1			
		50 X 50	10 C			1	1			2			
		50 X 75	13 C			2	1			3			
		50 X 200	25 C			1				1			
		125 X 175	29 C				1			1			
										11	51.3	196	
384-01	Y	25 X 50	8 C			1	1			2			70% Pyrite
		25 X 75	10 C			1				1			
		50 X 75	13 C	1		2				3			
		50 X 100	15 C			1				1			
										7	76.0	28	
384-02	Y	15 X 25	4 C			1				1			50% Pyrite
		15 X 50	7 C				1			1			
		25 X 25	5 C			2				2			
		25 X 50	8 C			2	2			4			
		25 X 75	10 C				2			2			
		50 X 50	10 C	1				1		2			
		50 X 75	13 C			1	1			2			
		50 X 100	15 C			1				1			
		75 X 100	18 C			2				2			
		75 X 175	25 C			1	1			2			
		75 X 225	29 C				1			1			
										20	119.7	128	
384-03	Y	15 X 15	3 C			3				3			50% Pyrite
		25 X 25	5 C			4				4			
		25 X 50	8 C				1			1			
		25 X 75	10 C	1						1			
		50 X 50	10 C			3	2			5			
		50 X 75	13 C			1				1			
		50 X 100	15 C	2						2			
		50 X 125	25 M			1				1			
		75 X 75	15 C	1						1			
		75 X 100	18 C			1				1			
		75 X 125	20 C		1					1			
		75 X 150	22 C	1			1			2			
		125 X 175	29 C		1					1			
		200 X 300	75 M				1			1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97										25	84.4	615	
384-04	Y	15 X 15	3 C			1	1			2			15% Pyrite
		15 X 25	4 C			1	2			3			
		25 X 25	5 C		2	1	1			4			
		25 X 50	8 C			2	1			3			
		25 X 75	10 C	1						1			
		50 X 50	10 C				1			1			
		50 X 75	13 C			1				1			
		50 X 100	15 C	1						1			
		75 X 75	25 M	1						1			
										17	59.9	47	
384-05	Y	10 X 10	2 C			1				1			10% Pyrite
		25 X 25	5 C		2					2			
		25 X 50	8 C	1	1	2	1			5			
		25 X 75	10 C	1		1				2			
		50 X 75	13 C	1		1				2			
		50 X 100	15 C			1				1			
		75 X 75	15 C	1						1			
		75 X 125	20 C			1				1			
		75 X 175	50 M	1						1			
										16	73.8	139	
385-01	Y	15 X 15	3 C		1	1	1			3			20% Pyrite
		15 X 25	4 C			2	1			3			
		15 X 50	7 C			3				3			
		25 X 25	5 C	2	1	1				4			
		25 X 50	8 C			4	1			5			
		25 X 100	13 C			1				1			
		50 X 50	10 C	2		2	1			5			
		50 X 50	25 M			3				3			
		50 X 75	13 C	1		3	1			5			
		50 X 75	25 M			2				2			
		50 X 100	15 C			1				1			
		75 X 75	15 C			2				2			
		75 X 125	20 C			1				1			
		125 X 125	25 C	1						1			
		125 X 175	29 C		1					1			
		150 X 150	50 M	1						1			
										41	77.6	341	

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
385-02	Y	10 X 10	2 C		2					2			20% Pyrite
		15 X 15	3 C		1	1	2			4			~50 grains of native copper ((=250u)
		15 X 25	4 C		1	1	2			4			
		15 X 50	7 C		1	1				2			
		25 X 25	5 C			5	1			6			
		25 X 50	8 C	1		5	1			7			
		25 X 75	10 C			2				2			
		25 X 100	13 C	1		1				2			
		50 X 50	10 C			1				1			
		50 X 75	13 C	1		3				4			
		50 X 75	25 M	1		2				3			
		50 X 100	15 C			1				1			
		50 X 125	18 C			2				2			
		75 X 75	15 C	1						1			
		75 X 125	20 C	1						1			
		75 X 125	50 M	1						1			
		100 X 150	75 M	1						1			
		125 X 175	75 M			1				1			
		125 X 200	50 M	1						1			
										46	98.5	465	
385-03	Y	15 X 15	3 C	1	1	2				4			50% Pyrite
		15 X 25	4 C		1	1				2			~25 grains of native copper ((=250u)
		25 X 25	5 C	4		5				9			
		25 X 50	8 C	3		6	1			10			
		25 X 75	10 C	1		1				2			
		25 X 100	13 C		1					1			
		50 X 50	10 C	2		3				5			
		50 X 75	13 C	1	1	2				4			
		50 X 100	15 C	2						2			
		75 X 75	15 C	3						3			
		75 X 100	18 C	1						1			
		100 X 125	22 C	1						1			
										44	85.3	125	
385-04	Y	10 X 10	2 C			1				1			40% Pyrite
		15 X 15	3 C			7				7			~10 grains of native copper ((=250u)
		15 X 25	4 C			7		1		8			
		15 X 50	7 C					2		2			
		25 X 25	5 C	6	1	18		1		26			
		25 X 50	8 C	6	2	12		1		21			
		25 X 75	10 C	2		2				4			
		50 X 50	10 C	2		4				6			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		50 X 75	13 C	3		6				9			
		50 X 100	15 C	2		6		1		9			
		50 X 150	20 C	1		1		1		3			
		75 X 75	15 C	1		2				3			
		75 X 100	18 C			1		1		2			
		75 X 175	50 M	1						1			
		125 X 250	75 M	1						1			
										103	92.9	514	
385-05	Y	15 X 15	3 C			1				1			50% Pyrite
		15 X 50	7 C		2	3				5			*25 grains of native copper ((=250u)
		25 X 25	5 C	1	1	9	2			13			
		25 X 50	8 C	5	2	4	2			13			
		25 X 75	10 C	4		2				6			
		25 X 100	13 C	2						2			
		50 X 50	10 C			6		1		7			
		50 X 75	13 C	2	1	6				9			
		50 X 100	15 C	1	1		1			3			
		75 X 75	15 C				1			1			
		75 X 100	18 C	1		1				2			
		75 X 125	20 C			1				1			
		150 X 150	50 M	1						1			
										64	93.5	244	
385-06	Y	10 X 10	2 C				2			2			60% Pyrite
		15 X 15	3 C	6	1	3				10			*50 grains of native copper ((=250u)
		15 X 25	4 C	4	1	5				10			
		15 X 50	7 C	2		1	1			4			
		15 X 75	9 C	1						1			
		25 X 25	5 C	6	3	6				15			
		25 X 50	8 C	7	1	7	3			18			
		25 X 75	10 C			2				2			
		50 X 50	10 C	1		4	1			6			
		50 X 75	13 C	1		4	1			6			
		50 X 100	15 C	1		3	1			5			
		50 X 125	18 C				1			1			
		75 X 75	15 C			1				1			
		75 X 100	18 C			3				3			
		75 X 125	20 C			2				2			
		75 X 200	27 C			1				1			
		125 X 175	29 C	1		1				2			
		150 X 275	40 C				1			1			
		100 X 250	34 C				1			1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
TOTAL # OF PANNINGS													
RR-97													
										91	111.5	467	
385-07	Y	15 X 15	3 C			1				1			70% Pyrite
		15 X 25	4 C			1				1			
		15 X 50	7 C			2				2			
		25 X 25	5 C	1		4				5			
		25 X 50	8 C	5	1	4	3			13			
		25 X 75	10 C	1		4	1			6			
		25 X 100	13 C			1				1			
		50 X 50	10 C	2	1	4				7			
		50 X 75	13 C	1		2	1			4			
		50 X 100	15 C	4						4			
		75 X 75	15 C	1		2				3			
		75 X 125	20 C				2			2			
		75 X 150	22 C	1						1			
		100 X 175	27 C			1				1			
		250 X 450	75 M	1						1			
										52	89.5	983	
385-08	Y	15 X 15	3 C		1	3	2			6			75% Pyrite
		15 X 25	4 C	1	2	5	1			9			~20 grains of native copper ((=250u)
		15 X 50	7 C			4	1			5			~25 grains of galena
		25 X 25	5 C	4		20	1	2		27			
		25 X 50	8 C	4		16	1			21			
		25 X 75	10 C	1		7		1		9			
		25 X 100	13 C	2		2				4			
		50 X 50	10 C	4		13	1			18			
		50 X 75	13 C	4		9				13			
		50 X 100	15 C	2		2				4			
		50 X 125	18 C			2				2			
		75 X 75	15 C	1		5				6			
		75 X 100	18 C	2		3				5			
		75 X 150	22 C	1						1			
		75 X 150	50 M	1						1			
		100 X 125	50 M			1				1			
										132	125.5	314	
385-09	Y	15 X 15	3 C				1			1			20% Pyrite
		25 X 25	5 C				1			1			~10 grains of native copper ((=250u)
		25 X 50	8 C		1					1			~20 grains of galena
		25 X 75	10 C		1					1			
		50 X 75	13 C			1				1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
TOTAL # OF PANNINGS													
RR-97													
		50 X 100	15 C			1				1			
		150 X 275	40 C		1					1			
		200 X 275	100 M				1			1			
										8	48.2	1187	
385-10	Y	25 X 25	5 C			1	1			2			10% Pyrite
		50 X 50	10 C			1				1			~20 grains of native copper ((=250u)
		75 X 100	18 C	1						1			1 large copper nugget; 850 X 1875u
		100 X 150	25 C	1						1			~20 grains of galena
		125 X 175	50 M			1				1			
		275 X 325	54 C				1			1			
										7	48.9	1003	
385-11	Y	15 X 15	3 C				1			1			5% Pyrite
		25 X 25	5 C	3		1				4			~10 grains of native copper ((=250u)
		25 X 50	8 C	2	1					3			~20 grains of galena
		25 X 100	13 C	1						1			
		50 X 50	10 C	2		1				3			
		50 X 75	13 C	1				1		2			
		50 X 100	15 C	1						1			
		50 X 125	25 M	1						1			
		75 X 75	15 C	1						1			
		75 X 150	50 M	1						1			
										18	42.1	226	
385-12	Y	15 X 15	3 C			1				1			5% Pyrite
		25 X 50	8 C			1				1			
		50 X 50	10 C	1						1			
		50 X 75	13 C	1						1			
		50 X 100	15 C	1						1			
		75 X 100	18 C		1					1			
										6	30.0	77	
386-01	Y	15 X 15	3 C			4				4			40% Pyrite
		25 X 25	5 C	3	1	2				6			
		25 X 50	8 C	4		3	1			8			
		25 X 75	10 C	1		1				2			
		25 X 100	13 C	2						2			
		50 X 50	10 C	4		1	1			6			
		50 X 75	13 C	3						3			
		50 X 150	20 C	1						1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		75 X 100	18 C	1		1				2			
										34	52.3	148	
386-02	Y	15 X 15	3 C			1				1			30% Pyrite
		15 X 25	4 C			2	1			3			
		15 X 50	7 C			1				1			
		25 X 25	5 C	2		4				6			
		25 X 50	8 C	4		2	1			7			
		25 X 75	10 C	1						1			
		25 X 100	13 C	1						1			
		50 X 50	10 C	2						2			
		50 X 75	13 C	4		1				5			
		50 X 100	15 C	1						1			
		75 X 75	15 C	1						1			
		75 X 100	50 M	1			1			2			
		75 X 125	20 C	1						1			
		125 X 175	29 C		1					1			
										33	84.5	202	
386-03	Y	15 X 15	3 C		1	2				3			35% Pyrite
		15 X 25	4 C			1				1			
		15 X 50	7 C			1				1			
		25 X 25	5 C	3		1				4			
		25 X 50	8 C	2	1	3				6			
		25 X 75	10 C		1					1			
		25 X 125	15 C			1				1			
		50 X 50	10 C	1		1				2			
		50 X 75	13 C	2						2			
		50 X 100	15 C			1				1			
		100 X 150	25 C	1						1			
		150 X 250	38 C				1			1			
										24	81.5	216	
386-04	Y	15 X 25	4 C		1	1				2			20% Pyrite
		25 X 25	5 C			1				1			
		25 X 50	8 C	1		1				2			
		50 X 50	10 C	1						1			
		50 X 75	13 C	1		2	1			4			
		50 X 150	20 C	1						1			
		75 X 75	15 C	1						1			
		75 X 100	18 C	3						3			
		75 X 125	25 M			1	1			2			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
										17	78.3	138	
386-05	Y	10 X 10	2 C			2		1		3			35% Pyrite
		15 X 15	3 C	2		12	1	4		19			
		15 X 25	4 C	1		4	1			6			
		15 X 50	7 C			4		3		7			
		25 X 25	5 C	2		8	2	1		13			
		25 X 50	8 C	3	1	12	1	3		20			
		25 X 75	10 C	2		3		2		7			
		50 X 50	10 C	2		1		2		5			
		50 X 75	13 C	2		2				4			
		75 X 100	18 C		1					1			
		100 X 125	50 M	1						1			
										86	80.3	150	
386-06	Y	15 X 15	3 C			4				4			20% Pyrite
		15 X 50	7 C	1		1	1			3			
		25 X 25	5 C	2	1	4				7			
		25 X 50	8 C	5		4				9			
		25 X 75	10 C				1			1			
		50 X 50	10 C			4	1			5			
		50 X 75	13 C	2	1	1				4			
		50 X 100	15 C	1			1			2			
		50 X 125	18 C	1						1			
		75 X 100	18 C		1					1			
		100 X 150	25 C		1					1			
										38	68.1	146	
386-07	Y	15 X 15	3 C	1	1	5		1		8			25% Pyrite
		15 X 25	4 C			2				2			
		15 X 50	7 C			3	1			4			
		25 X 25	5 C	2	1	5				8			
		25 X 50	8 C		2	6	1			9			
		25 X 75	10 C	1		6				7			
		50 X 50	10 C	4		4		1		9			
		50 X 75	13 C	2		5				7			
		50 X 100	15 C	1						1			
		50 X 125	18 C			1				1			
		75 X 75	15 C	3						3			
		75 X 75	50 M	1						1			
		75 X 100	18 C	1		1	1			3			
		75 X 125	20 C	1						1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		75 X 150	22 C				1			1			
		100 X 100	20 C			1				1			
		100 X 175	50 M	1						1			
		125 X 175	29 C				1			1			
										68	80.9	405	
386-08	Y	15 X 15	3 C			1				1			20% Pyrite
		15 X 25	4 C			1				1			
		25 X 25	5 C	1	1	3				5			
		25 X 50	8 C			1				1			
		50 X 50	10 C		1	1				2			
		50 X 75	13 C	3						3			
		50 X 125	25 M	1						1			
		75 X 125	50 M	1						1			
		100 X 100	50 M	1						1			
		100 X 125	75 M	1						1			
		100 X 175	50 M		1					1			
		125 X 175	75 M		1					1			
		150 X 150	75 M	1						1			
										20	70.1	716	
386-09	Y	15 X 15	3 C			4				4			15% Pyrite
		15 X 25	4 C						1	1			
		25 X 25	5 C			2				2			
		25 X 50	8 C	2	1	2				5			
		50 X 50	10 C	2		1				3			
		50 X 75	13 C	1		1				2			
		50 X 100	15 C	1						1			
		75 X 75	15 C	2						2			
		75 X 100	25 M	3						3			
		75 X 125	25 M	1						1			
		100 X 100	20 C	1						1			
		100 X 125	22 C	1						1			
		100 X 200	50 M	1						1			
		300 X 575	100 M		1					1			
										28	50.8	3258	
386-10	Y	25 X 50	8 C	1	1		1			3			10% Pyrite
		25 X 75	10 C	1		1				2			
		50 X 50	10 C	2						2			
		50 X 75	13 C	1		2				3			
		50 X 100	15 C	1						1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		75 X 75	15 C	1						1			
		75 X 150	22 C	1						1			
		125 X 225	75 M		1					1			
		150 X 150	29 C	2						2			
										16	53.5	610	
386-11	Y	25 X 25	5 C			1				1			15% Pyrite
		25 X 50	8 C			1				1			
		25 X 100	13 C	1						1			
		25 X 125	15 C	1						1			
		50 X 50	10 C	2	1	1				4			
		50 X 75	13 C			1				1			
		75 X 125	20 C	1						1			
		200 X 200	38 C		1					1			
										11	47.5	319	
386-12	Y	15 X 15	3 C			2				2			5% Pyrite
		25 X 25	5 C	1	1					2			
		50 X 50	10 C	3						3			
		50 X 75	13 C	2		1				3			
		50 X 100	15 C	2						2			
		75 X 100	18 C	1						1			
		75 X 125	20 C	1						1			
		125 X 125	25 C	1						1			
										15	30.3	279	
386-13	Y	25 X 25	5 C	1		4				5			10% Pyrite
		25 X 50	8 C	3			1			4			
		25 X 75	10 C	1						1			
		50 X 50	10 C	2						2			
		50 X 100	15 C			1				1			
		75 X 75	15 C	1						1			
		125 X 200	31 C	1						1			
										15	39.6	216	
386-14	Y	25 X 25	5 C	3	1					4			80% Pyrite
		25 X 50	8 C	3		4				7			
		25 X 75	10 C			3				3			
		50 X 50	10 C	1						1			
		50 X 75	13 C			1				1			
		50 X 100	15 C			1				1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		75 X 75	15 C	1						1			
		75 X 100	18 C	1						1			
										19	107.9	38	
387-01	Y	25 X 25	5 C				1			1			50% Pyrite
		50 X 75	13 C	1		1				2			~200 grains of native copper
		50 X 100	15 C			1				1			((=250u).
		50 X 125	18 C				1			1			~100 grains of native copper
		75 X 100	18 C				1			1			()250u).
		100 X 125	22 C	1						1			
		125 X 150	50 M			1				1			
										8	65.6	193	
387-02	N	50 X 50	10 C	1						1			
										1	106.1	2	
387-03	Y	25 X 25	5 C	1		2				3			40% pyrite
		25 X 50	8 C	1		3				4			~450 grains of native copper
		25 X 75	10 C			1				1			((=250u).
		50 X 50	10 C	1	1	3				5			~50 grains of native copper
		50 X 75	13 C	1		1				2			()250u).
		50 X 100	15 C			1				1			
		75 X 75	15 C	1						1			
		75 X 125	20 C		1					1			
		100 X 150	50 M				1			1			
		100 X 200	75 M				1			1			
		125 X 150	27 C				1			1			
		125 X 250	36 C	1						1			
										22	61.8	597	
387-04	Y	15 X 15	3 C				1			1			50% pyrite
		15 X 25	4 C				2			2			~20 grains of arsenopyrite.
		25 X 25	5 C			2				2			~150 grains of native copper
		25 X 50	8 C		1	2				3			((=250u).
		25 X 75	10 C			1				1			~50 grains of native copper
		50 X 50	10 C		1					1			()250u).
		75 X 125	20 C		1					1			
		100 X 175	27 C	1						1			
		150 X 300	42 C		1					1			
										13	40.6	543	

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
387-05	Y	25 X 25	5 C				1			1			60% Pyrite-
		25 X 50	8 C	3	1	4	1			9			~150 grains of native copper
		50 X 50	10 C	1			1			2			((=250u).
		50 X 75	13 C			1				1			~50 grains of native copper
		50 X 100	15 C	1		2	2			5			()250u).
		50 X 125	18 C				1			1			
		50 X 150	20 C				1			1			
		75 X 125	20 C				1			1			
		150 X 250	38 C		1					1			
		175 X 250	100 M		1					1			
										23	65.1	829	
387-06	Y	15 X 25	4 C		1					1			60% Pyrite
		25 X 25	5 C			1				1			~150 grains of native copper
		25 X 50	8 C	2						2			((=250u).
		50 X 50	10 C	2		3	1			6			~50 grains of native copper
		50 X 75	13 C			1				1			()250u).
		50 X 100	15 C			1				1			
		50 X 125	18 C	1						1			
		75 X 150	22 C				1			1			
		125 X 150	27 C		1					1			
		175 X 325	46 C		1					1			
										16	42.7	726	
387-07	Y	25 X 25	5 C				3			3			30% Pyrite
		25 X 50	8 C			1	2			3			~100 grains of native copper
		50 X 75	13 C			1				1			((=250u).
		50 X 100	15 C			1				1			~25 grains of native copper
		75 X 100	18 C	1			1			2			()250u).
		100 X 100	20 C				1			1			
		125 X 125	25 C		1					1			
		125 X 175	100 M	1						1			
										13	39.2	628	
387-08	Y	25 X 25	5 C			2	1			3			30% Pyrite
		25 X 50	8 C		1	4	1			6			~125 grains of native copper
		50 X 50	10 C	1		2				3			((=250u).
		50 X 100	15 C			1				1			~25 grains of native copper
		50 X 125	18 C	1						1			()250u).
		50 X 200	25 C			1				1			
		50 X 200	50 M	1						1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		75 X 75	15 C			1				1			
		125 X 175	29 C	1						1			
		125 X 200	31 C	1						1			
										19	12.9	1810	
388-01	Y	25 X 25	5 C			2				2			30% Pyrite
		25 X 50	8 C			2				2			~1000 grains of native copper
		50 X 50	10 C			2				2			((=250u).
		75 X 75	15 C				1			1			~200 grains of native copper
													()250 and (=750u).
										7	30.8	40	25 grains of native copper
													()750u)
388-02	Y	25 X 25	5 C	2						2			20% Pyrite
		25 X 50	8 C	2		1				3			~250 grains of native copper
		25 X 75	10 C		1					1			((=250u).
		50 X 75	13 C			1				1			~50 grains of native copper
		125 X 275	38 C		1					1			()250u).
		175 X 250	40 C			1				1			
										9	33.6	769	
388-03	Y	25 X 50	8 C			3				3			1% pyrite
		50 X 75	13 C			1				1			10% marcasite
		150 X 150	29 C			1				1			
										5	36.1	154	
388-04	N	NO VISIBLE GOLD											
388-05	N	25 X 25	5 C			1				1			
		25 X 50	8 C	1						1			
										2	25.6	4	
389-01	Y	15 X 50	7 C				1			1			75% Pyrite
		25 X 25	5 C				1			1			~100 grains of native copper
		25 X 50	8 C			3				3			((=250u).
		25 X 75	10 C					1		1			
		50 X 50	10 C			4				4			
		50 X 50	25 M			1				1			
		75 X 75	50 M			1				1			
		75 X 150	22 C	1						1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97										13	50.1	119	
389-02	N	25 X 50	8 C			1				1			
		50 X 50	10 C			1				1			
		50 X 125	18 C	1						1			
		75 X 100	18 C			1				1			
										4	45.4	51	
389-03	Y	25 X 50	8 C			2	1	1		4			10% pyrite
		25 X 125	15 C	1						1			5% marcasite
		50 X 50	10 C			1				1			
		50 X 75	13 C	1						1			
		50 X 100	15 C	1				2		3			
		50 X 125	18 C	1						1			
		75 X 75	15 C			1				1			
		75 X 100	18 C	1						1			
		75 X 150	22 C		1					1			
		100 X 175	27 C	1						1			
										15	50.4	239	
389-04	N	75 X 75	15 C	1						1			
		75 X 125	20 C	1						1			
		100 X 150	25 C	1						1			
										3	30.9	163	
389-05	Y	25 X 25	5 C			2				2			20% pyrite
		25 X 50	8 C	1		2				3			
		25 X 75	10 C			1				1			
		50 X 50	10 C		1	1				2			
		75 X 125	20 C		1					1			
		75 X 150	22 C		1					1			
										10	24.1	186	
390-01	N	NO VISIBLE GOLD											
390-02	Y	25 X 25	5 C			2				2			70% pyrite
		25 X 50	8 C			2				2			~25 grains of arsenopyrite.
		50 X 50	10 C			3				3			~1000 grains of native copper
		50 X 75	13 C			1	1			2			((=250u).
		50 X 125	18 C			1				1			~150 grains of native copper
		75 X 75	15 C	1						1			()250u).

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
										11	40.1	79	
390-03	Y	25 X 25	5 C			1	1			2			60% pyrite
		50 X 75	13 C					1		1			~10 grains of arsenopyrite.
		100 X 100	20 C			1				1			~100 grains of galena
		100 X 125	22 C			1				1			~1000 grains of native copper
													((=250u).
										5	58.1	70	~100 grains of native copper
													()250u).
390-04	Y	15 X 15	3 C			2				2			
		25 X 25	5 C			1				1			70% pyrite
		25 X 50	8 C			2				2			~10 grains of arsenopyrite.
		50 X 50	10 C			1	1			2			~500 grains of native copper
		75 X 100	18 C			1				1			((=250u).
		75 X 125	20 C		1					1			~100 grains of native copper
		125 X 400	48 C			1				1			()250u).
										10	42.3	662	
390-05	N	25 X 25	5 C			1				1			
		25 X 50	8 C			1				1			
		100 X 125	22 C	1						1			
										3	96.0	23	
390-06	Y	25 X 50	8 C	1						1			80% Pyrite
		25 X 75	10 C	1						1			~1000 grains of native copper
		50 X 50	10 C			1				1			((=250u).
		50 X 75	13 C	1		1				2			~100 grains of native copper
		50 X 100	15 C			1				1			()250u).
		50 X 125	18 C				1			1			
		75 X 100	18 C		1	1				2			
		75 X 125	20 C			1				1			
		100 X 125	22 C	1						1			
		100 X 150	25 C			1				1			
		125 X 150	27 C	1						1			
		125 X 200	31 C			1				1			
										14	118.2	182	
390-07	Y	15 X 15	3 C				1			1			3% pyrite
		15 X 25	4 C				1			1			2% marcasite
		25 X 25	5 C	3		1				4			~50 grains of native copper
		25 X 50	8 C	1	1	1				3			((=250u).

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		50 X 50	10 C	1		1				2			
		50 X 75	13 C	1		1	1			3			
		50 X 100	15 C			1				1			
		75 X 75	15 C			1				1			
		75 X 100	18 C	1		1				2			
		100 X 175	27 C	1						1			
										19	65.9	136	
390-08	Y	15 X 15	3 C			3	1			4			10% pyrite
		15 X 50	7 C				1			1			
		25 X 25	5 C		1	4	1			6			
		25 X 50	8 C	1		2	1			4			
		25 X 75	10 C	1		1	1			3			
		50 X 50	10 C		2					2			
		50 X 75	13 C	1		1	1			3			
		50 X 100	15 C			1	1			2			
		75 X 100	18 C		1					1			
										26	43.7	113	
390-09	N	25 X 25	5 C	1						1			
		25 X 50	8 C	1						1			
		50 X 125	18 C			1				1			
		75 X 75	15 C			1				1			
										4	58.2	30	
390-10	Y	15 X 15	3 C			2				2			15% pyrite
		15 X 50	7 C			1				1			
		25 X 25	5 C	1		4				5			
		25 X 50	8 C			2				2			
		25 X 75	10 C			1				1			
		25 X 100	13 C				1			1			
		50 X 50	10 C			1				1			
		50 X 75	13 C			2	1			3			
		75 X 100	18 C	1						1			
										17	35.0	92	
390-11	N	50 X 100	15 C			1				1			
		100 X 125	22 C			1				1			
		150 X 175	31 C	1						1			
										3	36.0	250	

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
391-01	Y	25 X 25	5 C			3	1			4			10% Pyrite
		25 X 50	8 C		1	2				3			
		25 X 75	10 C				1			1			
		50 X 50	10 C			1				1			
		50 X 75	13 C			1				1			
		50 X 100	15 C	1	1					2			
		50 X 125	18 C			2				2			
		50 X 175	22 C	1						1			
		75 X 75	25 M					1		1			
		75 X 100	18 C			2				2			
		75 X 125	20 C	1		1				2			
		100 X 100	20 C			1				1			
		100 X 150	25 C	1						1			
										22	50.3	338	
391-02	N	50 X 75	13 C	1						1			
		50 X 100	15 C			1				1			
										2	57.2	18	
391-03	Y	15 X 25	4 C				1			1			10% Pyrite
		25 X 50	8 C	1		1				2			
		25 X 75	10 C	1						1			
		50 X 75	13 C	1						1			
		50 X 100	15 C			1				1			
		75 X 75	15 C	1						1			
		75 X 125	20 C		1					1			
		100 X 125	22 C	1						1			
										9	45.5	124	
391-04	N	25 X 75	10 C	1						1			
		50 X 75	13 C			1				1			
		50 X 100	15 C			1				1			
		50 X 125	18 C			1				1			
										4	52.8	42	
391-05	Y	15 X 15	3 C			2	1			3			15% Pyrite
		15 X 25	4 C			1				1			
		15 X 50	7 C			1				1			
		25 X 25	5 C			3				3			
		25 X 50	8 C	3	1	8	1			13			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		25 X 75	10 C			1	1			2			
		25 X 100	13 C		1					1			
		25 X 125	15 C	1						1			
		50 X 50	10 C	1		1	1			3			
		50 X 75	13 C	1			1			2			
		50 X 125	18 C	1						1			
		75 X 75	15 C	2			1			3			
		75 X 100	18 C				1			1			
		75 X 100	50 M	1			1			2			
		75 X 125	50 M				1			1			
		75 X 200	75 M	1						1			
		100 X 125	75 M				1			1			
										40	55.9	628	
392-01	Y	15 X 25	4 C			2				2			20% Pyrite
		25 X 50	8 C			1				1			
		50 X 75	13 C			1				1			
		100 X 150	25 C	1						1			
										5	11.9	283	
393-01	N	25 X 50	8 C			1				1			
										1	15.3	5	
393-02	N	NO VISIBLE GOLD											
393-03	N	NO VISIBLE GOLD											
393-04	N	15 X 25	4 C			1				1			
		25 X 25	5 C	1						1			
		50 X 50	10 C	1						1			
										3	61.4	4	
394-01	Y	25 X 25	5 C			2				2			85% Pyrite
		25 X 50	8 C	1		3				4			~20 grains of arsenopyrite
		25 X 75	10 C	1		1				2			~100 grains of galena
		50 X 50	10 C			2				2			~200 grains of native copper
		50 X 75	13 C			1				1			((=250u)
		50 X 100	15 C			1				1			
		75 X 100	18 C			1				1			
		75 X 225	29 C			1				1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97										14	79.5	102	
394-02	Y	25 X 50	8 C			1				1			80% Pyrite
		25 X 75	10 C			1				1			~20 grains of arsenopyrite
		50 X 50	50 M			1				1			((=125u)
		50 X 75	25 M			1				1			~100 grains of galena ((=125u)
		75 X 75	15 C			1				1			~150 grains of native copper
		125 X 375	75 M				1			1			((=250u)
										6	47.9	788	
394-03	N	25 X 25	5 C			1				1			
		25 X 50	8 C			1				1			
		50 X 50	10 C			1				1			
										3	29.7	10	
396-01	Y	25 X 25	5 C			1				1			60% Pyrite
		25 X 75	10 C			1				1			~150 grains of native copper
		50 X 50	10 C			2				2			((=250u)
		75 X 75	15 C	1						1			1 large native copper nugget (1025X3000X625u)
										5	48.2	26	
396-02	N	15 X 15	3 C			2				2			
		25 X 25	5 C			1				1			
		75 X 75	15 C			1				1			
										4	55.0	12	
397-01	N	25 X 50	8 C			1				1			
		25 X 75	10 C			1				1			
		50 X 50	10 C	1		1				2			
										4	42.8	15	
397-02	N	25 X 50	8 C			1				1			
		100 X 100	50 M			1				1			
		100 X 125	50 M	1						1			
		100 X 175	27 C			1				1			
										4	56.5	220	
397-03	N	25 X 50	8 C			1				1			
		25 X 75	10 C	1						1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
										2	34.5	8	
398-01	Y	15 X 25	4 C			2				2			90% Pyrite
		15 X 50	7 C			2			1	3			
		25 X 25	5 C	3		2		1		6			
		25 X 50	8 C	1		6		1	1	9			
		25 X 100	13 C			1				1			
		50 X 50	10 C			1				1			
		50 X 75	13 C			3				3			
		50 X 100	15 C			1				1			
		75 X 75	15 C	1			1			2			
		125 X 175	29 C		1		1			2			
										30	119.7	121	
398-02	Y	15 X 25	4 C				1		1	2			95% Pyrite
		25 X 25	5 C			2	2			4			~100 grains of galena ((=250u)
		25 X 50	8 C			4	1	1		6			
		25 X 75	10 C		1	2	1			4			
		50 X 50	10 C		2	5	1	1		9			
		50 X 75	13 C	2	1	4	3			10			
		50 X 100	15 C		1			1		2			
		50 X 125	18 C			1	1			2			
		75 X 75	15 C			5				5			
		75 X 100	18 C			1				1			
		75 X 125	20 C			3	2			5			
		75 X 150	22 C		1					1			
		100 X 175	27 C		1					1			
		100 X 200	75 M			1				1			
		125 X 150	27 C				1			1			
		125 X 175	29 C			1				1			
		150 X 200	50 M				2			2			
		150 X 225	75 M				1			1			
										58	182.1	505	
398-03	Y	10 X 10	2 C					1		1			95% Pyrite
		15 X 15	3 C			5	3	5	1	14			
		15 X 25	4 C		1	2	4	1	1	9			
		15 X 50	7 C			4				4			
		25 X 25	5 C	2		3		2		7			
		25 X 50	8 C	1		1	1			3			
		25 X 75	10 C			1				1			
		50 X 50	10 C	1	3		1			5			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		50 X 75	13 C		1		2			3			
		50 X 100	15 C		1					1			
		75 X 75	15 C	1						1			
		75 X 100	18 C		1					1			
		75 X 125	20 C	1	1					2			
		100 X 175	27 C				2			2			
		100 X 200	29 C		1					1			
		100 X 225	75 M				1			1			
		150 X 300	125 M				1			1			
										57	133.2	625	
398-04	Y	15 X 25	4 C			1				1			95% Pyrite
		25 X 25	5 C	1		2	1			4			
		25 X 50	8 C			5				5			
		25 X 75	10 C	1						1			
		50 X 50	10 C			6		3		9			
		50 X 75	13 C			4	1	1		6			
		50 X 100	15 C			2	1			3			
		50 X 125	50 M			1				1			
		75 X 75	15 C			1				1			
		75 X 100	18 C			1	1			2			
		75 X 125	50 M			1				1			
		100 X 125	22 C				1			1			
		100 X 150	25 C			1	1			2			
		100 X 150	75 M				1			1			
		150 X 200	100 M				1			1			
										39	222.8	249	
398-05	Y	15 X 15	3 C			1				1			90% Pyrite
		15 X 25	4 C			2				2			~100 grains of galena ((=250u)
		15 X 50	7 C					1		1			~50% of modified gold grains
		25 X 25	5 C			1	1		1	3			have a high silver content.
		25 X 50	8 C			2	1			3			
		25 X 75	10 C				2			2			
		25 X 100	13 C				1			1			
		50 X 75	13 C			1	3			4			
		50 X 100	15 C	1			1			2			
		75 X 100	18 C		1					1			
		75 X 125	50 M	1			2			3			
		100 X 125	22 C				1			1			
		100 X 150	25 C				1			1			
		100 X 150	75 M				1			1			
		125 X 200	50 M				1			1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		200 X 400	100 M				1			1			
										28	110.9	968	
399-01	Y	15 X 15	3 C			2				2			90% Pyrite
		15 X 50	7 C			3		1		4			
		25 X 25	5 C	1	1	1	1	1		5			
		25 X 50	8 C			3		1		4			
		25 X 75	10 C		1		1		1	3			
		50 X 50	10 C	2	1	3	1		1	8			
		50 X 75	13 C		1	4	1			6			
		50 X 100	15 C				3			3			
		75 X 75	15 C				2			2			
		75 X 100	18 C		1	1			1	3			
		75 X 125	20 C				2			2			
		100 X 175	27 C				1			1			
		100 X 225	75 M			1				1			
										44	143.9	229	
399-02	Y	15 X 25	4 C			2				2			90% Pyrite
		15 X 50	7 C			2				2			
		25 X 25	5 C			1	1	2		4			
		25 X 50	8 C	1		6	2	3		12			
		25 X 75	10 C	2		1				3			
		25 X 100	13 C			1				1			
		50 X 50	10 C			1				1			
		50 X 75	13 C			3	2			5			
		50 X 100	15 C	1						1			
		50 X 225	27 C			1				1			
		75 X 100	18 C			1				1			
		75 X 125	20 C	1			2			3			
		75 X 150	22 C				1			1			
		100 X 200	50 M				1			1			
		100 X 275	36 C				1			1			
										39	158.4	216	
399-03	Y	25 X 50	8 C			1				1			90% Pyrite
		75 X 150	50 M			1				1			~10 grains of native copper
		100 X 225	75 M			1				1			((=250u)
		175 X 350	100 M				1			1			
										4	50.2	1422	

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
400-01	Y	10 X 10	2 C	1		1		2		4			85% Pyrite
		15 X 15	3 C	3		5	2	2		12			Scouring on the large (500X900X
		15 X 25	4 C	2	1	4		1		8			150 micron) modified gold nugget
		15 X 50	7 C			4		2		6			is man made (RC drill).
		15 X 75	9 C	1						1			
		25 X 25	5 C	1		11	1	2		15			
		25 X 50	8 C	4		10	2	4	2	22			
		25 X 75	10 C	1		1	1	1		4			
		25 X 100	13 C			1				1			
		50 X 50	10 C	1		4	1	2		8			
		50 X 75	13 C	2				2	1	5			
		75 X 100	18 C				1			1			
		75 X 125	20 C				1			1			
		75 X 300	75 M				1			1			
		375 X 425	225 M				1			1			
		500 X 900	150 M			1				1			
										91	88.1	9658	
401-01	Y	15 X 15	3 C	2		3		2		7			80% Pyrite
		15 X 25	4 C	1		2		1		4			
		15 X 50	7 C	1		5				6			
		15 X 75	9 C			1				1			
		25 X 25	5 C	1		5	1	2		9			
		25 X 50	8 C	1		9	2	1		13			
		25 X 75	10 C			2				2			
		50 X 50	10 C	1		1	1			3			
		50 X 75	13 C			3		1		4			
		50 X 100	15 C				2			2			
		50 X 125	18 C			1				1			
		75 X 125	20 C				1			1			
										53	140.4	57	
401-02	Y	25 X 25	5 C			1	2		2	5			60% Pyrite
		25 X 50	8 C			10	1	1	1	13			~10 grains of native copper
		50 X 50	10 C		1	7	3		2	13			((=250u)
		50 X 75	13 C		1	6	2			9			
		50 X 100	15 C			1	1			2			
		50 X 125	18 C			1	2			3			
		75 X 75	15 C			1		1		2			
		75 X 125	20 C			1				1			
		100 X 125	22 C		1					1			
										49	132.4	123	

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	TOTAL # OF PANNINGS PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
401-03	Y	25 X 25	5 C			2		2	1	5			60% Pyrite
		25 X 50	8 C	1	1	2	1	6	1	12			~200 grains of native copper
		25 X 75	10 C		1		1			2			((=1.5 mm)
		25 X 100	13 C			1				1			
		50 X 50	10 C	3		5	2	2		12			
		50 X 50	50 M				1			1			
		50 X 75	13 C	1	1	1	2			5			
		50 X 100	15 C		1		1			2			
		50 X 125	18 C		1					1			
		75 X 75	50 M				1			1			
		75 X 125	20 C				1			1			
		100 X 100	20 C		1					1			
		100 X 125	22 C				1			1			
										45	92.8	178	
401-04	Y	15 X 15	3 C		1	2		3	1	7			70% Pyrite
		15 X 25	4 C			2	1	3	1	7			~150 grains of native copper
		15 X 50	7 C				2	4		6			((=250u)
		25 X 25	5 C			2		2	2	6			
		25 X 50	8 C	2		5	3		2	12			
		25 X 75	10 C			2	2			4			
		50 X 50	10 C				1		2	3			
		50 X 75	13 C			1	1			2			
		50 X 100	15 C						1	1			
		50 X 125	18 C				1			1			
		75 X 100	50 M				1		1	2			
		100 X 225	75 M				1			1			
		150 X 300	42 C				1			1			
										53	156.0	269	
401-05	Y	15 X 15	3 C			1				1			70% Pyrite
		15 X 25	4 C			1				1			~1000 grains of native copper
		25 X 25	5 C	3	1	6		3		13			((=500u)
		25 X 50	8 C		1	6		1		8			
		25 X 75	10 C	1		4				5			
		50 X 50	10 C	1	1	6	2	2		12			
		50 X 75	13 C	1		1	2			4			
		50 X 100	15 C	1		1				2			
		75 X 75	15 C	1						1			
		75 X 100	18 C			1	1			2			
		75 X 125	20 C		1					1			
		100 X 125	22 C			1				1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		100 X 150	25 C			1				1			
										52	136.7	119	
401-06	Y	25 X 25	5 C	2		6	1	2		11			50% Pyrite
		25 X 50	8 C	1		4				5			~50 grains of native copper
		25 X 75	10 C	1		1				2			((=1.5 mm)
		50 X 50	10 C			1				1			
		50 X 75	13 C	1		1	1			3			
		50 X 100	15 C			1				1			
		50 X 125	18 C	1						1			
										24	50.8	79	
402-01	Y	10 X 10	2 C					2		2			80% Pyrite
		15 X 15	3 C		1	1		3		5			~150 grains of native copper
		15 X 25	4 C			1		4		5			((=250u)
		25 X 25	5 C	1	1	4		1		7			
		25 X 50	8 C			2	1	2		5			
		25 X 75	10 C					1		1			
		50 X 50	10 C			3	1			4			
		50 X 75	13 C	1		1	1	1		4			
		50 X 100	15 C			1	1			2			
		50 X 125	18 C				1			1			
		100 X 125	50 M		1		1			2			
		100 X 150	50 M				1			1			
		125 X 200	31 C		1					1			
										40	70.3	384	
402-02	Y	25 X 25	5 C	1		1	1			3			70% Pyrite
		25 X 50	8 C	1		1	2			4			~15 coarse grains of arsenopyrite
		25 X 75	10 C	1			1			2			()500u)
		25 X 100	13 C			1				1			~200 grains of native copper
		50 X 50	10 C		1	1	1			3			((=500u)
		50 X 75	13 C			1	1			2			
		50 X 100	15 C				1			1			
		50 X 125	18 C			1				1			
		75 X 100	18 C			2				2			
		100 X 125	22 C	1		1				2			
										21	95.2	109	
402-03	Y	15 X 15	3 C					1		1			70% Pyrite
		25 X 50	8 C			1	1		1	3			~150 grains of native copper

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		25 X 75	10 C			1				1			((=250u)
		50 X 75	13 C	1		1	2			4			~5 grains of native copper ()250u)
		50 X 100	15 C			1				1			
		150 X 250	100 M				1			1			
										11	63.5	513	
402-04	Y	15 X 15	3 C		1	1				2			70% Pyrite
		25 X 25	5 C			2				2			
		25 X 50	8 C			1	2			3			
		25 X 75	10 C			1				1			
		50 X 50	10 C			2				2			
		50 X 75	13 C			1	1			2			
		75 X 75	15 C					1		1			
		75 X 100	18 C	1						1			
		100 X 125	22 C			1				1			
		100 X 150	25 C	1						1			
										16	77.9	106	
402-05	Y	25 X 25	5 C			1	1			2			70% Pyrite
		25 X 75	10 C			1				1			~100 grains of native copper
		25 X 125	15 C			1				1			((=250u)
		50 X 50	10 C					1		1			~10 grains of native copper ()250u)
		50 X 75	13 C			1				1			
		75 X 100	18 C			1				1			
		100 X 100	20 C				1			1			
		100 X 150	25 C		1					1			
		150 X 250	100 M				1			1			
										10	70.1	526	
402-06	N	50 X 75	13 C			1				1			70% Pyrite
										1	63.0	6	
403-01	Y	15 X 15	3 C	1		1				2			90% Pyrite
		15 X 25	4 C			1		1		2			~100 grains of native copper
		15 X 50	7 C	1		1		1		3			((=250u)
		25 X 25	5 C	1		5				6			~150 grains of cobaltite ((=125u)
		25 X 50	8 C		1	6	2	2		11			
		25 X 100	13 C				1			1			
		50 X 50	10 C	1		1				2			
		50 X 75	13 C	1		1	2			4			
		75 X 100	18 C		1		1			2			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		75 X 100	50 M				2			2			
		75 X 125	20 C				1			1			
		100 X 150	75 M				1			1			
		125 X 225	34 C				1			1			
										38	131.1	223	
403-02	Y	15 X 25	4 C	1		1	1			3			90% Pyrite
		25 X 25	5 C		1	1		1		3			
		25 X 50	8 C	2		1		2		5			
		25 X 75	10 C	2		1	2		1	6			
		50 X 50	10 C			2				2			
		50 X 75	13 C			3	1	1		5			
		50 X 100	15 C			3	3		1	7			
		50 X 125	18 C			1	1			2			
		75 X 100	18 C	1		3	1			5			
		75 X 125	20 C			1				1			
		75 X 150	22 C				1			1			
		100 X 225	31 C				1			1			
		175 X 250	40 C				1			1			
										42	199.5	195	
403-03	Y	15 X 15	3 C					1		1			70% Pyrite
		15 X 50	7 C					1		1			
		15 X 25	4 C			1				1			
		25 X 25	5 C	1		1				2			
		25 X 50	8 C	1		3				4			
		50 X 50	10 C	1		2		1		4			
		50 X 75	13 C				1			1			
		50 X 100	15 C				1			1			
		75 X 100	18 C		1					1			
		75 X 150	22 C			1				1			
		125 X 150	50 M			1				1			
		125 X 175	29 C				1			1			
		125 X 200	31 C					1		1			
		125 X 225	100 M		1					1			
		150 X 175	75 M		1					1			
										22	76.1	807	
404-01	Y	15 X 15	3 C				1		1	2			70% Pyrite
		15 X 50	7 C			1				1			
		25 X 25	5 C			3	2	1		6			
		25 X 50	8 C			5	1	2		8			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
TOTAL # OF PANNINGS													
RR-97													
		25 X 75	10 C				1			1			
		50 X 50	10 C	1		1				2			
		50 X 75	13 C			1	1			2			
		75 X 100	18 C		1					1			
										23	47.9	67	
404-02	Y	15 X 15	3 C			1				1			70% Pyrite
		15 X 25	4 C			3				3			~50 grains of galena ((=125u)
		15 X 50	7 C		1	1		1		3			
		25 X 50	8 C	3		1		1		5			
		25 X 75	10 C	1						1			
		50 X 50	10 C	1	1					2			
										15	39.4	30	
404-03	Y	15 X 15	3 C			1				1			90% Pyrite
		15 X 25	4 C	1		1		1		3			~100 grains of galena ((=125u)
		15 X 50	7 C			1				1			
		25 X 25	5 C	1		1		1		3			
		25 X 50	8 C	2		3		1		6			
		25 X 75	10 C			1		1	1	3			
		50 X 50	10 C	2		2		2		6			
		50 X 75	13 C	1		3		3	1	8			
		50 X 100	15 C			2				2			
		50 X 125	18 C			1				1			
		50 X 150	20 C			1				1			
		75 X 100	18 C			1		1		2			
		75 X 125	20 C	1		1				2			
		75 X 175	50 M						1	1			
		100 X 100	20 C			1				1			
		125 X 250	36 C			1				1			
		150 X 225	50 M		1					1			
										43	116.0	381	
404-04	Y	10 X 10	2 C					1		1			90% Pyrite
		15 X 15	3 C				1	1	1	3			~50 grains of galena ((=125u)
		15 X 25	4 C			2				2			~10 grains of arsenopyrite ((=250u)
		15 X 50	7 C			1				1			
		15 X 75	9 C			1				1			
		25 X 25	5 C	2		1	1			4			
		25 X 50	8 C	1		4				5			
		25 X 75	10 C			3				3			
		50 X 50	10 C			1		1		2			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		50 X 75	13 C					1	1	2			
		75 X 150	22 C			1				1			
										25	88.4	52	
404-05	Y	25 X 25	5 C					1		1			95% Pyrite
		25 X 50	8 C			1		1		2			~50 grains of galena ((=125u)
		50 X 75	13 C			1		1		2			
		75 X 75	15 C			2				2			
		75 X 100	18 C				1			1			
		75 X 175	25 C		1					1			
		125 X 175	29 C				1			1			
		200 X 325	100 M				1			1			
										11	186.1	337	
405-01	Y	15 X 15	3 C		1	2		1		4			80% Pyrite
		15 X 25	4 C			1		2		3			~150 grains of native copper
		25 X 25	5 C			1		1	1	3			((=250u)
		25 X 50	8 C	3		2	1	2		8			
		25 X 75	10 C			1	1			2			
		50 X 50	10 C	1		5		3		9			
		50 X 75	13 C			4		1		5			
		50 X 100	15 C			2				2			
		50 X 150	20 C	1						1			
		75 X 100	18 C				2			2			
										39	131.1	73	
406-01	Y	15 X 25	4 C			2	2	3		7			80% Pyrite
		15 X 50	7 C			1		2		3			~100 grains of native copper
		25 X 25	5 C	4		6	2	3	1	16			((=250u)
		25 X 50	8 C	3	1	7	1	2	1	15			
		25 X 75	10 C	1		7	3	2		13			
		50 X 50	10 C	3		2	1	1		7			
		50 X 75	13 C	1		4	1	1		7			
		50 X 100	15 C		1	1				2			
		75 X 75	15 C			1	1		1	3			
		75 X 100	18 C		1					1			
		75 X 125	20 C				1			1			
		75 X 150	22 C				1			1			
		100 X 225	50 M				1			1			
		125 X 175	29 C				2			2			
		150 X 150	29 C		1					1			
		150 X 500	75 M				1			1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
										81	100.1	1002	
407-01	Y	25 X 25	5 C	1		2	1			4			90% Pyrite
		25 X 50	8 C	1		6	1			8			~1000 grains of native copper
		50 X 50	10 C			1	1			2			((=1500u)
		50 X 75	13 C			3				3			
		50 X 100	15 C			2			1	3			
		150 X 175	31 C			1				1			
										21	175.4	59	
407-02	Y	15 X 50	7 C			1				1			90% Pyrite
		25 X 25	5 C			2		1		3			~500 grains of native copper
		25 X 50	8 C			2		1		3			((=250u)
		25 X 75	10 C				1			1			~50 grains of native copper ()250u)
		50 X 75	13 C				1			1			
										9	77.8	12	
407-03	Y	15 X 15	3 C		1	1	1	1		4			90% Pyrite
		25 X 25	5 C			2		1		3			~200 grains of native copper
		25 X 50	8 C			2		1		3			((=250u)
		50 X 75	13 C			3				3			
		50 X 150	20 C			1				1			
										14	101.4	29	
408-01	Y	15 X 15	3 C			1				1			90% Pyrite
		25 X 25	5 C	1		3		1		5			5% siderite
		25 X 50	8 C			3				3			
		50 X 50	10 C			1	1	1		3			
		50 X 75	13 C	1		1				2			
		50 X 100	15 C				1			1			
		50 X 100	50 M				1			1			
		75 X 100	50 M		1					1			
		150 X 225	36 C		1					1			
										18	103.1	163	
408-02	Y	15 X 15	3 C	1						1			90% Pyrite
		15 X 50	7 C				1			1			5% siderite
		25 X 25	5 C	1		1				2			~50 grains of galena ((=125u)
		25 X 50	8 C	1		3	1			5			
		50 X 50	10 C				2			2			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
TOTAL # OF PANNINGS													
RR-97													
		50 X 75	13 C	1		2		1		4			
		50 X 100	15 C			1				1			
		75 X 75	15 C			1			1	2			
		75 X 100	18 C			1				1			
		75 X 125	20 C			1				1			
										20	120.5	57	
408-03	Y	15 X 50	7 C			1				1			80% Pyrite
		25 X 25	5 C			2		3		5			5% siderite
		25 X 50	8 C		2	2	1	1		6			
		25 X 75	10 C	1		1				2			
		25 X 100	13 C				1			1			
		50 X 50	10 C			1	1			2			
		50 X 75	13 C			1				1			
										18	85.3	26	
408-04	Y	15 X 15	3 C	1						1			70% Pyrite
		25 X 25	5 C			2	1	1		4			
		25 X 50	8 C			2	1			3			
		25 X 75	10 C	1						1			
										9	43.7	12	
408-05	Y	15 X 15	3 C			1		1		2			80% Pyrite
		15 X 25	4 C			2		1		3			
		25 X 25	5 C	1		1				2			
		25 X 50	8 C	2		1				3			
		25 X 75	10 C			2				2			
		50 X 50	10 C	1		1				2			
		50 X 125	18 C		1	1				2			
		125 X 175	75 M		1					1			
		150 X 225	75 M				1			1			
		200 X 275	150 M		1					1			
		225 X 325	125 M				1			1			
		375 X 675	83 C	1						1			
										21	138.2	2466	
408-06	Y	25 X 25	5 C			2		1		3			80% Pyrite
		25 X 50	8 C			3				3			
		25 X 75	10 C			2				2			
		50 X 75	13 C	3			1			4			
		50 X 100	15 C			1				1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		50 X 125	18 C				1			1			
		75 X 75	15 C	1						1			
		100 X 125	22 C	1						1			
										16	140.0	47	
408-07	Y	25 X 25	5 C	1		3				4			80% Pyrite
		25 X 50	8 C			1				1			
		25 X 75	10 C			1				1			
		50 X 50	10 C			2				2			
		50 X 75	13 C				1			1			
		50 X 100	15 C		1	1				2			
		200 X 275	125 M				1			1			
										12	79.0	700	
409-01	Y	25 X 25	5 C			1			1	2			90% Pyrite
		25 X 50	8 C			2				2			~25 grains of galena ((=125u)
		50 X 75	13 C	1		1				2			
		50 X 100	15 C			1				1			
		50 X 125	18 C			1				1			
		75 X 125	20 C				1			1			
										9	78.4	52	
409-02	Y	15 X 15	3 C			3		1		4			80% Pyrite
		15 X 25	4 C			4	3			7			~50 grains of galena ((=125u)
		15 X 50	7 C			2	1	1	3	7			
		15 X 75	9 C						1	1			
		25 X 25	5 C	2		3	2	4	1	12			
		25 X 50	8 C	2		5	2	2		11			
		25 X 75	10 C			2			1	3			
		25 X 100	13 C						1	1			
		50 X 50	10 C		2	1	1			4			
		50 X 75	13 C		1	1	2			4			
		50 X 125	18 C				1			1			
		75 X 100	18 C	1						1			
		125 X 150	27 C		1					1			
										57	69.9	156	
410-01	Y	15 X 15	3 C			2				2			90% Pyrite
		15 X 25	4 C			4		1	1	6			~25 grains of galena ((=125u)
		15 X 50	7 C	1				2		3			
		25 X 25	5 C			7	2	4	1	14			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		25 X 50	8 C			3	2	1	1	7			
		25 X 75	10 C		1	1		1		3			
		25 X 100	13 C					1		1			
		50 X 50	10 C			2		2		4			
		50 X 75	13 C	1			4		3	8			
		50 X 100	15 C				3			3			
		50 X 125	18 C		1					1			
		75 X 125	20 C			1				1			
		75 X 175	25 C						1	1			
		125 X 150	27 C				1			1			
										55	91.4	186	
410-02	Y	15 X 15	3 C				3			3			90% Pyrite
		15 X 25	4 C				1			1			*25 grains of galena ((=125u)
		15 X 50	7 C				2			2			
		25 X 25	5 C		1	4	2		1	8			
		25 X 50	8 C			5	4	1	3	13			
		50 X 50	10 C			3		1	2	6			
		50 X 75	13 C			3	1			4			
		50 X 100	15 C			2		1		3			
		75 X 100	18 C			1				1			
										41	127.5	55	
410-03	Y	15 X 25	4 C				1			1			80% Pyrite
		25 X 25	5 C			2				2			
		25 X 50	8 C			1				1			
		25 X 100	13 C		1		1			2			
		50 X 50	10 C	1		3				4			
		100 X 125	22 C				1			1			
										11	43.1	88	
410-04	Y	15 X 25	4 C				1			1			90% Pyrite
		25 X 25	5 C			3		1		4			
		25 X 50	8 C				1	1	1	3			
		50 X 50	10 C			2				2			
		50 X 75	13 C			5				5			
		50 X 100	15 C				1			1			
		50 X 200	25 C				1			1			
		75 X 75	15 C			1				1			
		75 X 125	20 C			1				1			
		100 X 100	20 C			1				1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97										20	51.3	191	
410-05	N	15 X 15	3 C			1				1			
		25 X 75	10 C			1				1			
		75 X 125	20 C	1						1			
										3	93.5	18	
410-06	N	75 X 125	20 C	1						1			
		150 X 175	75 M	1						1			
		150 X 250	38 C	1						1			
										3	77.3	359	
410-07	Y	15 X 50	7 C			1				1			90% Pyrite
		25 X 50	8 C					1		1			
		25 X 75	10 C			1				1			
		50 X 100	15 C				1			1			
		75 X 125	20 C	1						1			
										5	85.8	29	
410-08	Y	15 X 25	4 C			3				3			90% Pyrite
		15 X 50	7 C			1				1			
		25 X 25	5 C			3		2	2	7			
		25 X 50	8 C			3				3			
		50 X 50	10 C	1		2		1	1	5			
		50 X 75	13 C			1				1			
		75 X 100	18 C				1			1			
		100 X 150	25 C			1				1			
		100 X 200	29 C				1			1			
										23	129.1	83	
410-09	N	50 X 75	13 C			2				2			
		50 X 150	20 C			1				1			
		175 X 200	100 M			1				1			
										4	56.8	504	
410-10	Y	25 X 50	8 C			1				1			60% Pyrite
		50 X 50	10 C			2				2			
		50 X 75	13 C			1				1			
		50 X 100	15 C			1				1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
										5	51.7	29	
410-11	Y	25 X 75	10 C			2		1		3			70% Pyrite
		50 X 50	10 C	2		1				3			~20 grains of galena ((=125u)
		50 X 75	13 C	1		3		1		5			
		50 X 125	18 C				1			1			
		50 X 200	25 C						1	1			
		75 X 75	15 C			1				1			
		75 X 150	22 C				1			1			
		75 X 225	29 C	1						1			
										16	96.2	152	
410-12	Y	10 X 10	2 C			1				1			70% Pyrite
		15 X 15	3 C			5				5			~100 grains of galena ((=125u)
		15 X 25	4 C			4				4			
		15 X 50	7 C	1		1		1		3			
		15 X 75	9 C			1				1			
		25 X 25	5 C	1		7	1	3		12			
		25 X 50	8 C			7	2	2		11			
		25 X 75	10 C			1	1			2			
		50 X 50	10 C			5	1			6			
		50 X 75	13 C			1				1			
		50 X 100	15 C		1	1				2			
		75 X 75	15 C		1					1			
		75 X 100	18 C		1					1			
										50	74.8	86	
411-01	Y	15 X 25	4 C					2		2			90% Pyrite
		25 X 25	5 C			3		1		4			~25 grains of native copper
		25 X 50	8 C		1	2	1			4			((=250u)
		25 X 75	10 C	1		1	1			3			
		50 X 50	10 C	2		4	1			7			
		50 X 75	13 C	1		2	2			5			
		50 X 100	15 C	2		2				4			
		50 X 125	18 C				1			1			
		75 X 100	18 C		1	2	3			6			
		75 X 125	20 C		2		4			6			
		75 X 150	22 C				1			1			
		75 X 175	25 C				1			1			
		75 X 200	27 C				1			1			
		75 X 300	36 C				1			1			
		100 X 125	22 C			1	1			2			
		100 X 175	27 C		1		1			2			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		100 X 225	31 C				1			1			
		125 X 150	27 C				1			1			
		125 X 200	31 C				1			1			
										53	130.7	531	
411-02	Y	25 X 25	5 C			1				1			85% Pyrite
		25 X 50	8 C			2	1	2		5			~10 grains of arsenopyrite ((=125u)
		25 X 100	13 C			1				1			~150 grains of native copper
		50 X 50	10 C			4			1	5			((=250u)
		50 X 75	13 C	1		6		1		8			
		50 X 100	15 C		1					1			
		50 X 125	18 C				1		1	2			
		50 X 150	25 M			1				1			
		75 X 75	75 M						1	1			
		75 X 100	18 C			1	1			2			
		75 X 125	20 C						2	2			
		75 X 150	22 C		1					1			
		100 X 125	22 C				1			1			
		100 X 150	25 C		1					1			
		100 X 200	29 C		1					1			
		125 X 125	25 C		1					1			
		125 X 150	50 M			1				1			
		125 X 200	31 C		1				1	2			
										37	122.7	424	
411-03	Y	25 X 50	8 C						1	1			90% Pyrite
		50 X 50	10 C			1			2	3			~10 grains of arsenopyrite ((=125u)
		50 X 100	15 C			1				1			~100 grains of galena ((=125u)
		75 X 125	20 C						1	1			~150 grains of cobaltite ((=125u)
		100 X 125	22 C			1				1			150 X 200 X 125 gold grain
		100 X 150	25 C			1				1			contains attached sphalerite
		125 X 175	29 C			1				1			(SEM confirmed)
		150 X 200	125 M						1	1			
		150 X 250	100 M				1			1			
		200 X 300	46 C				2			2			
										13	135.7	846	
411-04	Y	50 X 75	13 C				1			1			90% Pyrite
		75 X 100	18 C					1		1			~10 grains of arsenopyrite ((=125u)
		75 X 150	75 M						1	1			~100 grains of galena ((=125u)
		100 X 175	27 C			1				1			~50 grains of cobaltite ((=125u)
		125 X 150	27 C				1			1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
TOTAL # OF PANNINGS													
RR-97													
		125 X 200	31 C		1					1			
		125 X 275	38 C		1					1			
		250 X 350	54 C		1					1			
										8	112.5	624	
411-05	Y	15 X 25	4 C		1	1				2			90% Pyrite
		15 X 50	7 C			1				1			~50 grains of galena ((=125u)
		25 X 50	8 C	1		2		1	1	5			
		25 X 75	10 C			2	1	1		4			
		25 X 100	13 C					1		1			
		50 X 50	10 C			3	2			5			
		50 X 75	13 C		2	2	2		3	9			
		50 X 100	15 C			1	1		1	3			
		50 X 125	18 C	1						1			
		75 X 75	15 C	1		1				2			
		75 X 100	18 C		1		1			2			
		75 X 125	20 C						1	1			
		75 X 150	22 C	1						1			
		75 X 200	27 C				1			1			
		100 X 125	75 M						1	1			
										39	132.4	202	
411-06	Y	10 X 10	2 C			1		1		2			90% Pyrite
		15 X 15	3 C			1		1		2			~10 grains of arsenopyrite ((=125u)
		15 X 25	4 C			1		3		4			~50 grains of galena ((=125u)
		15 X 50	7 C			3				3			
		25 X 25	5 C	2		4	1	4	1	12			
		25 X 50	8 C	2		4	1	3		10			
		25 X 75	10 C	2		4	1			7			
		50 X 50	10 C			3				3			
		50 X 75	13 C			1				1			
		50 X 75	50 M				1		1	2			
		50 X 100	15 C	1		2		1		4			
		50 X 125	18 C			2	1			3			
		75 X 100	18 C				2			2			
		75 X 150	22 C		1					1			
		75 X 225	29 C				1			1			
		100 X 125	75 M				1			1			
		100 X 150	25 C					1		1			
		100 X 200	29 C				1			1			
										60	170.6	212	

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
411-07	Y	15 X 15	3 C			1				1			90% Pyrite
		15 X 25	4 C			1				1			~25 grains of arsenopyrite ((=125u)
		15 X 50	7 C			2				2			~100 grains of galena ((=125u)
		25 X 25	5 C	1		3		1		5			
		25 X 50	8 C			4	3			7			
		25 X 75	10 C			2				2			
		50 X 50	10 C	1		1				2			
		50 X 75	13 C			1	1			2			
		50 X 100	15 C			2	1			3			
		75 X 75	15 C	1					1	2			
		75 X 100	18 C				2			2			
		75 X 150	22 C				1			1			
		125 X 200	75 M				1			1			
		125 X 225	34 C				1			1			
										32	154.0	210	
411-08	Y	15 X 25	4 C			1				1			85% Pyrite
		15 X 50	7 C			1				1			~15 grains of arsenopyrite ((=125u)
		25 X 25	5 C			2		1		3			~50 grains of galena ((=125u)
		25 X 50	8 C				1			1			~100 grains of native copper
		50 X 50	10 C	1		2				3			((=250u)
		50 X 75	13 C			1	2			3			
		75 X 75	15 C				1			1			
		75 X 100	18 C				1			1			
		75 X 150	22 C				1		1	2			
		200 X 375	52 C				1			1			
										17	123.8	324	
411-09	Y	25 X 25	5 C			2				2			90% Pyrite
		25 X 50	8 C			1				1			~30 grains of arsenopyrite ((=125u)
		25 X 75	10 C						1	1			~50 grains of galena ((=125u)
		50 X 75	13 C			1				1			
		50 X 100	15 C		1	1			1	3			
		50 X 125	18 C			1				1			
		100 X 125	22 C			1				1			
										10	128.6	45	
411-10	Y	15 X 50	7 C			1				1			90% Pyrite
		25 X 25	5 C			2			1	3			~15 grains of arsenopyrite ((=125u)
		25 X 50	8 C	1		2			1	4			~50 grains of galena ((=125u)
		50 X 50	10 C			1				1			
		50 X 100	15 C			1				1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		50 X 125	18 C			1				1			
		75 X 75	15 C					1		1			
		100 X 125	22 C			1				1			
		100 X 175	27 C				1			1			
		100 X 200	29 C			1				1			
		125 X 150	75 M				1			1			
										16	134.7	182	
411-11	Y	15 X 15	3 C				1			1			90% Pyrite
		15 X 25	4 C				1		1	2			~20 grains of arsenopyrite ((=125u)
		25 X 25	5 C					2		2			~50 grains of galena ((=125u)
		25 X 50	8 C	1		3		1		5			
		25 X 75	10 C			1	1	2	1	5			
		50 X 50	10 C	1			1			2			
		50 X 75	13 C	1		1				2			
		75 X 125	20 C					1		1			
		75 X 150	22 C				1			1			
		100 X 150	25 C				1			1			
		125 X 200	31 C				1			1			
										23	151.3	101	
411-12	Y	25 X 25	5 C					1		1			90% Pyrite
		25 X 50	8 C			1				1			~30 grains of arsenopyrite ((=125u)
		25 X 75	10 C				3			3			~100 grains of galena ((=125u)
		50 X 50	10 C			2				2			
		50 X 100	15 C				1	1		2			
		50 X 125	18 C				1			1			
		75 X 75	15 C			1				1			
		75 X 150	22 C				2			2			
		100 X 125	22 C				1			1			
		100 X 175	27 C				1			1			
		200 X 225	75 M				1			1			
										16	146.0	271	
411-13	Y	25 X 25	5 C					2		2			90% Pyrite
		25 X 50	8 C			1		2	1	4			~30 grains of arsenopyrite ((=125u)
		50 X 50	10 C			1		1		2			~100 grains of galena ((=125u)
		50 X 75	13 C					1		1			~50 grains of native copper
		50 X 125	18 C			1				1			((=250u)
		100 X 100	20 C					1		1			
		100 X 125	22 C		1					1			
		125 X 175	29 C			1				1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		225 X 275	46 C				1			1			
										14	85.6	378	
412-01	Y	10 X 10	2 C					1		1			90% Pyrite
		15 X 15	3 C			2	2	1	3	8			~30 grains of arsenopyrite
		15 X 25	4 C	1		2		1		4			~100 grains of galena
		15 X 50	7 C			1	1	1		3			
		25 X 25	5 C	2	1	3	2	2		10			
		25 X 50	8 C			9	4	3		16			
		25 X 75	10 C	1		1	5		1	8			
		50 X 50	10 C	1		3		1		5			
		50 X 75	13 C			3	3			6			
		50 X 100	15 C				1			1			
		75 X 75	15 C			1				1			
		75 X 100	18 C					1		1			
		75 X 125	20 C	1		1	1			3			
		75 X 150	22 C			1				1			
		75 X 175	25 C				1			1			
		100 X 100	20 C			1				1			
		100 X 125	22 C			1	1			2			
		100 X 175	27 C			1	1			2			
		100 X 225	31 C					1		1			
		125 X 200	31 C				1			1			
		125 X 250	36 C					1		1			
		150 X 200	34 C			1	1			2			
		150 X 225	36 C		1					1			
		175 X 200	36 C				1			1			
		250 X 425	59 C					1		1			
										82	180.0	772	
412-02	Y	15 X 15	3 C						1	1			90% Pyrite
		15 X 25	4 C			1			1	2			~20 grains of arsenopyrite
		15 X 50	7 C				2			2			~50 grains of galena
		25 X 25	5 C			3	2	1		6			
		25 X 50	8 C		1	5	1	1		8			
		25 X 100	13 C				1			1			
		50 X 50	10 C	2		3				5			
		50 X 75	13 C			1	1			2			
		50 X 100	15 C	1		1				2			
		75 X 125	20 C		1		1			2			
		100 X 150	25 C			1				1			
										32	110.2	92	

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
412-03	Y	15 X 15	3 C			1		2		3			90% Pyrite
		15 X 25	4 C			2		2		4			~10 grains of arsenopyrite
		15 X 50	7 C					2		2			~50 grains of galena
		25 X 25	5 C	1		2		2		5			
		25 X 50	8 C	1		5	2			8			
		25 X 75	10 C		1	1	3	3		8			
		25 X 100	13 C	1						1			
		50 X 50	10 C	1		2	2	1		6			
		50 X 75	13 C	3	1	8		2	1	15			
		50 X 100	15 C			4	2			6			
		50 X 125	18 C			1	2	1		4			
		75 X 75	15 C			2	1			3			
		75 X 125	20 C		1	1		1		3			
		75 X 150	22 C			1				1			
		100 X 100	20 C			1				1			
		100 X 150	25 C	1						1			
		100 X 175	27 C				1			1			
										72	136.1	252	
412-04	Y	25 X 50	8 C	1			1			2			90% Pyrite
		75 X 100	18 C					1		1			~50 grains of galena
		75 X 125	20 C	1		1				2			
		100 X 125	22 C			1				1			
		100 X 150	25 C			1				1			
		100 X 200	29 C			1				1			
		175 X 225	38 C		1					1			
										9	74.1	344	
412-05	Y	15 X 75	9 C			1	1			2			90% Pyrite
		25 X 25	5 C			1	1	2		4			~50 grains of galena
		25 X 50	8 C	4		5	2	1		12			
		25 X 75	10 C			1	1	1		3			
		25 X 100	13 C			2				2			
		50 X 50	10 C	2						2			
		50 X 75	13 C				2			2			
		50 X 100	15 C	1		2	1			4			
		75 X 100	18 C			1				1			
		75 X 125	20 C			1				1			
		100 X 125	22 C				1			1			
		125 X 150	27 C			1				1			
		125 X 175	29 C				1			1			
		150 X 150	29 C	1						1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
										37	149.3	165	
412-06	Y	15 X 15	3 C			2				2			90% Pyrite
		15 X 25	4 C			2				2			~10 grains of arsenopyrite
		25 X 25	5 C	1		1		1		3			~50 grains of galena
		25 X 50	8 C	1		3			1	5			The 125 X 175 X 100u gold grain is
		25 X 75	10 C			1	1			2			attached to sphalerite.
		25 X 100	13 C		1					1			
		50 X 75	13 C			3	1			4			
		50 X 100	15 C				1			1			
		75 X 100	18 C			1				1			
		100 X 125	22 C			2	1			3			
		100 X 150	25 C			2	1			3			
		100 X 200	29 C					1		1			
		125 X 175	100 M						1	1			
		125 X 250	36 C				1			1			
		225 X 300	48 C				1			1			
										31	135.4	559	
412-07	Y	15 X 50	7 C			1				1			90% Pyrite
		25 X 25	5 C			1				1			~10 grains of arsenopyrite
		25 X 75	10 C					1		1			~50 grains of galena
		50 X 50	10 C					1		1			~50 grains of native copper ((=250u)
		50 X 100	15 C	1						1			1 copper nugget, 700 X 1250 u
		250 X 350	54 C				1			1			
										6	61.8	608	
412-08	Y	25 X 50	8 C			3				3			80% Pyrite
		50 X 50	10 C			2				2			~10 grains of arsenopyrite
													~25 grains of galena
										5	90.8	7	~50 grains of native copper ((=250u)
412-09	Y	25 X 75	10 C	1	1					2			80% Pyrite
		50 X 100	15 C			1				1			~25 grains of galena
		75 X 75	15 C	2						2			~25 grains of native copper ((=250u)
		75 X 125	20 C			1				1			
		225 X 350	125 M			1				1			
										7	46.3	1756	
413-01	N	25 X 75	10 C			1				1			
		50 X 75	13 C	1						1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
										2	21.1	27	
414-01	Y	15 X 15	3 C				1			1			80% Pyrite
		25 X 25	5 C			3	1			4			~50 grains of native copper ((=125u)
		25 X 50	8 C			1				1			
		25 X 75	10 C	1		1				2			
		50 X 50	10 C			1				1			
		50 X 75	13 C	1		1				2			
		50 X 125	18 C			1				1			
		75 X 100	18 C				1			1			
		75 X 175	25 C			1				1			
		125 X 175	29 C			1				1			
										15	54.3	209	
414-02	N	25 X 25	5 C			1				1			
		25 X 75	10 C	1						1			
		50 X 50	10 C			1				1			
		50 X 125	18 C	1						1			
										4	90.9	16	
414-03	Y	15 X 15	3 C			2	1		2	5			60% Pyrite
		15 X 25	4 C				3			3			
		15 X 50	7 C				3			3			
		25 X 25	5 C			2				2			
		25 X 50	8 C	1		1	5		1	8			
		50 X 50	10 C	1	1	1				3			
		50 X 75	13 C	1						1			
		50 X 100	15 C	1	1		1			3			
		75 X 100	18 C		1					1			
		75 X 125	20 C			1				1			
		100 X 150	25 C		1					1			
										31	104.5	88	
414-04	Y	10 X 10	2 C				1			1			40% Pyrite
		15 X 50	7 C		1					1			
		25 X 25	5 C	2			1			3			
		25 X 50	8 C	2		1				3			
		50 X 50	10 C	1						1			
		50 X 75	13 C		1	1				2			
		75 X 100	18 C				1			1			
		75 X 125	20 C				1			1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		100 X 250	34 C	1						1			
		125 X 150	75 M		1					1			
										15	99.9	222	
414-05	Y	15 X 15	3 C		1					1			30% Pyrite
		15 X 25	4 C				1			1			
		25 X 25	5 C	2		1				3			
		25 X 50	8 C	1		1				2			
		25 X 75	10 C			1	1			2			
		50 X 50	10 C	1	1					2			
		50 X 75	13 C			2				2			
		50 X 100	15 C	1			1			2			
		75 X 75	15 C	1						1			
		75 X 125	20 C	1						1			
		325 X 375	61 C				1			1			
										18	101.0	609	
414-06	Y	15 X 15	3 C			2				2			25% Pyrite
		15 X 25	4 C		1		2		1	4			
		15 X 50	7 C	1		2				3			
		25 X 25	5 C	1	1	3	2			7			
		25 X 50	8 C	1		5				6			
		25 X 75	10 C			1				1			
		50 X 50	10 C	2			1			3			
		50 X 75	13 C	1		2				3			
		50 X 100	15 C			1				1			
		50 X 150	20 C	1						1			
		75 X 75	15 C		1					1			
		100 X 125	22 C		1					1			
										33	117.0	66	
414-07	Y	25 X 25	5 C	1		2				3			20% Pyrite
		25 X 50	8 C	1		2	1			4			
		25 X 75	10 C					1		1			
		50 X 125	18 C			1	1			2			
										10	88.3	30	
414-08	Y	15 X 15	3 C		1					1			20% Pyrite
		15 X 25	4 C				1		1	2			
		25 X 25	5 C			2				2			
		25 X 50	8 C	2		2				4			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		25 X 75	10 C	1						1			
		25 X 100	13 C			1				1			
		50 X 75	13 C			1				1			
		200 X 250	42 C				1			1			
										13	79.8	218	
414-09	Y	15 X 25	4 C			2				2			20% Pyrite
		15 X 50	7 C			1				1			
		25 X 25	5 C	1						1			
		25 X 50	8 C	1		3				4			
		50 X 50	10 C			1	1			2			
		50 X 75	13 C		1					1			
		75 X 125	20 C			1				1			
		125 X 150	27 C		1					1			
										13	88.6	74	
414-10	Y	10 X 10	2 C				2			2			40% Pyrite
		15 X 15	3 C						1	1			
		15 X 25	4 C				1			1			
		25 X 25	5 C	1			2			3			
		25 X 50	8 C	1		3				4			
		25 X 75	10 C		1					1			
		50 X 50	10 C			2				2			
		50 X 75	13 C	1						1			
		50 X 100	15 C	1						1			
		750 X 775	102 C	1						1			
										17	65.1	6862	
414-11	Y	15 X 15	3 C				2			2			50% Pyrite
		15 X 25	4 C				1			1			
		25 X 25	5 C	1		2	1			4			
		25 X 50	8 C	1		1				2			
		25 X 75	10 C	1		2		1		4			
		50 X 50	10 C	1		2				3			
		50 X 75	13 C			5				5			
		50 X 125	18 C			1				1			
		50 X 150	20 C			1				1			
		50 X 175	22 C			1				1			
		75 X 75	15 C			2				2			
		100 X 150	25 C	1						1			
		100 X 275	36 C			1				1			
		125 X 175	29 C				1			1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		125 X 200	31 C			1		1		2			
										31	77.2	507	
415-01	Y	15 X 15	3 C					1		1			50% Pyrite
		25 X 25	5 C			2	1			3			~10 grains of arsenopyrite
		25 X 50	8 C	1		2				3			
		25 X 75	10 C			4				4			
		50 X 50	10 C			1				1			
		50 X 75	13 C				1			1			
		50 X 100	15 C	1			1			2			
		50 X 125	18 C						1	1			
		75 X 125	20 C				1			1			
		125 X 275	38 C				1			1			
										18	87.1	193	
415-02	Y	15 X 25	4 C			1				1			70% Pyrite
		25 X 50	8 C		1	1				2			~5 grains of galena
		50 X 75	13 C	1	2	2				5			~25 grains of native copper ((=250u)
										8	88.4	23	
415-03	Y	25 X 25	5 C			2				2			70% Pyrite
		25 X 50	8 C			1				1			~5 grains of galena
		25 X 75	10 C			1				1			~5 grains of native copper ((=250u)
		25 X 100	13 C			1				1			
		50 X 50	10 C			3	1			4			
		50 X 100	15 C			1				1			
		75 X 100	18 C					1		1			
		100 X 150	25 C	1						1			
		125 X 200	31 C	1						1			
		200 X 275	44 C	1						1			
										14	83.2	372	
415-04	Y	25 X 25	5 C			4				4			85% Pyrite
		25 X 50	8 C			4				4			~25 grains of galena
		25 X 75	10 C			1				1			
		25 X 100	13 C					1		1			
		50 X 50	10 C			1	1			2			
		50 X 75	13 C			3				3			
		50 X 150	20 C			1				1			
		75 X 75	15 C		1					1			
		100 X 175	27 C				1			1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		225 X 250	44 C			1				1			
										19	149.9	181	
415-05	Y	25 X 25	5 C	1		1				2			90% Pyrite
		25 X 50	8 C	1		5				6			~10 grains of galena
		25 X 75	10 C		1	3				4			
		50 X 50	10 C			4				4			
		50 X 75	13 C						1	1			
		50 X 100	15 C	1						1			
		75 X 100	18 C				1			1			
		75 X 125	20 C		1					1			
										20	147.6	38	
416-01	Y	25 X 25	5 C			2	1			3			90% Pyrite
		25 X 50	8 C			3		1		4			~10 grains of galena
		25 X 75	10 C			3				3			~10 grains of native copper ((=250u)
		50 X 50	10 C	1		2				3			1 native copper nugget 650 X 800 u
		50 X 75	13 C		1	3	1			5			
		75 X 75	15 C			1				1			
		75 X 100	18 C	1	1					2			
		75 X 125	20 C				1			1			
		75 X 150	22 C			1				1			
		250 X 400	58 C				1			1			
										24	142.0	390	
416-02	Y	15 X 15	3 C		1		1			2			90% Pyrite
		25 X 25	5 C		1		2		1	4			~25 grains of galena
		25 X 50	8 C			1				1			~10 grains of native copper ((=250u)
		50 X 50	10 C			1				1			
		50 X 75	13 C			2	1			3			
		50 X 100	15 C			1				1			
		50 X 125	18 C			1				1			
		75 X 75	15 C			1				1			
		75 X 175	25 C		1					1			
		100 X 150	25 C				1			1			
		100 X 225	31 C			1				1			
		125 X 200	31 C				1			1			
										18	94.7	233	
416-03	Y	15 X 15	3 C				2			2			90% Pyrite
		15 X 25	4 C	1			1			2			~100 grains of galena

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		15 X 50	7 C	1						1			~25 grains of native copper ((=250u)
		25 X 75	10 C			1				1			
		50 X 75	13 C			1		1		2			
		75 X 75	15 C			1				1			
										9	86.9	19	
416-04	Y	15 X 15	3 C				1		1	2			80% Pyrite
		15 X 25	4 C				2		1	3			~50 grains of galena
		25 X 75	10 C					1		1			~20 grains of native copper ((=250u)
		50 X 50	10 C			1				1			
		75 X 75	15 C			1				1			
		75 X 225	29 C			1				1			
		100 X 150	25 C	1		1				2			
		125 X 125	25 C			1				1			
		200 X 300	46 C				1			1			
										13	73.0	498	
416-05	Y	15 X 50	7 C			2				2			90% Pyrite
		25 X 25	5 C					1		1			~25 grains of galena
		25 X 50	8 C			2				2			
		25 X 75	10 C			1	1			2			
		50 X 50	10 C			1		2		3			
		50 X 75	13 C			1	3	2		6			
		50 X 100	15 C				1			1			
		75 X 75	15 C			1				1			
		75 X 125	20 C			1	1			2			
		100 X 125	22 C				1			1			
		100 X 175	75 M				1			1			
		200 X 250	100 M				1			1			
		600 X 925	102 C			1				1			
										24	120.4	4179	
416-06	Y	25 X 50	8 C					1		1			90% Pyrite
		50 X 50	10 C			2	1			3			~50 grains of galena
		50 X 75	13 C					1		1			~10 grains of arsenopyrite
		50 X 100	15 C				1			1			
		75 X 125	20 C					1		1			
										7	115.8	27	
416-07	Y	15 X 25	4 C				1			1			95% Pyrite
		25 X 25	5 C	1		1	1			3			~25 grains of galena

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		25 X 50	8 C	1		1				2			~5 grains of arsenopyrite
		25 X 75	10 C			1				1			
		50 X 50	10 C				1			1			
		100 X 150	25 C				1			1			
		100 X 200	29 C		1					1			
		150 X 225	36 C				1			1			
										11	178.9	100	
416-08	Y	15 X 50	7 C				1		1	2			95% Pyrite
		25 X 25	5 C			3			1	4			~25 grains of galena
		25 X 75	10 C			1	1			2			
		25 X 100	13 C			1				1			
		25 X 125	15 C			1				1			
		50 X 50	10 C			2	2			4			
		50 X 75	13 C			2	1	1		4			
		50 X 100	15 C					1		1			
		75 X 75	15 C			1	1			2			
		75 X 125	20 C				2			2			
		75 X 150	22 C			1				1			
		75 X 200	27 C				1			1			
		75 X 250	31 C				1			1			
		125 X 150	27 C			1				1			
		250 X 325	125 M				1			1			
										28	305.8	334	
416-09	Y	15 X 50	7 C				1			1			90% Pyrite
		25 X 25	5 C			3		1		4			
		25 X 50	8 C			1	3			4			
		50 X 100	15 C				1			1			
		75 X 125	20 C			1	1			2			
		100 X 300	38 C				1			1			
										13	215.6	72	
417-01	N	50 X 75	13 C			1				1			
										1	43.8	9	
417-02	Y	15 X 15	3 C		1	1				2			60% Pyrite
		15 X 25	4 C			1				1			~25 grains of galena
		15 X 50	7 C				1			1			
		25 X 25	5 C			3				3			
		25 X 50	8 C		1	4	1	1		7			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		25 X 75	10 C					1		1			
		50 X 50	10 C			2				2			
		50 X 75	13 C			1	2			3			
										20	130.6	18	
418-01	Y	15 X 15	3 C				1			1			25% Pyrite
		15 X 25	4 C				2			2			
		15 X 50	7 C			3	1			4			
		25 X 25	5 C			2	3			5			
		25 X 50	8 C			3	2			5			
		25 X 75	10 C		1	1	2			4			
		25 X 100	13 C			1				1			
		50 X 50	10 C			1	1			2			
		50 X 75	13 C	1			1			2			
		50 X 100	15 C			1				1			
		75 X 125	20 C	1						1			
		100 X 125	22 C			1				1			
		125 X 150	27 C	1						1			
										30	92.2	121	
418-02	Y	15 X 25	4 C		1	3	2			6			40% Pyrite
		25 X 25	5 C			6	1	1		8			
		25 X 50	8 C	2		7	2	1		12			
		25 X 75	10 C			2				2			
		50 X 50	10 C	2		2	1			5			
		50 X 75	13 C			1	1			2			
		50 X 125	18 C				1			1			
		75 X 75	15 C	1						1			
		75 X 100	18 C	1						1			
		125 X 175	75 M				1			1			
										39	105.1	178	
418-03	Y	15 X 15	3 C			1	1			2			50% Pyrite
		15 X 25	4 C				3			3			
		25 X 25	5 C			4	2			6			
		25 X 50	8 C			9	1			10			
		25 X 75	10 C			3				3			
		50 X 50	10 C			2	1			3			
		50 X 75	13 C			1				1			
		75 X 100	18 C	1		1	1			3			
		75 X 150	22 C				1			1			
		100 X 150	25 C			1				1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS				NUMBER OF GRAINS									
		MEASUREMENT (MICRONS)		RESHAPED		MODIFIED		PRISTINE		TOTAL	NON	CALC V.G.	
SAMPLE #	PANNED Y/N	DIAMETER	THICKNESS	T	P	T	P	T	P		MAG GMS	ASSAY PPB	REMARKS
RR-97													
		150 X 250	38 C		1					1			
										34	103.0	213	
418-04	Y	15 X 15	3 C		1		2			3			50% Pyrite
		15 X 25	4 C		1		2			3			
		25 X 25	5 C		1	2	1			4			
		25 X 50	8 C	1	1	1				3			
		25 X 75	10 C			2	1			3			
		50 X 75	13 C	1			1			2			
		50 X 100	15 C			1				1			
		75 X 75	15 C			1				1			
		75 X 100	18 C				1			1			
		75 X 150	22 C				1			1			
										22	162.9	38	
418-05	Y	15 X 15	3 C			1				1			80% Pyrite
		15 X 25	4 C			1	1			2			~50 grains of galena
		15 X 50	7 C	1		4	1	1		7			~150 grains of native copper
		25 X 25	5 C		1	4	1	2		8			((=250u)
		25 X 50	8 C			6	4		1	11			~25 grains of native copper
		25 X 75	10 C			2	1			3			()250u)
		50 X 50	10 C		1	7	2	3		13			
		50 X 75	13 C		1	4	3	1		9			
		50 X 100	15 C			2	2	1		5			
		50 X 125	18 C			1				1			
		75 X 75	15 C	1		1	1			3			
		75 X 100	18 C	1	2	2	1			6			
		75 X 100	75 M	1						1			
		75 X 125	20 C			2	4			6			
		75 X 150	22 C		1	1	1		1	4			
		100 X 100	75 M			1				1			
		100 X 125	22 C	1		3	2			6			
		100 X 150	25 C				1			1			
		100 X 200	29 C			1				1			
		125 X 150	75 M				1			1			
		125 X 175	29 C			1	1			2			
		125 X 200	31 C						1	1			
		150 X 200	34 C				1			1			
		150 X 225	36 C				1			1			
										95	268.7	417	
418-06	Y	15 X 15	3 C			1	2	1		4			50% Pyrite

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		15 X 25	4 C			2				2			~50 grains of galena
		25 X 25	5 C	1		1				2			~200 grains of native copper
		25 X 50	8 C			3		1		4			((=250u)
		25 X 75	10 C			2	1			3			~25 grains of native copper
		50 X 50	10 C			1		1		2			()250u)
		50 X 75	13 C					2		2			
		75 X 75	15 C				1			1			
		75 X 100	18 C	1						1			
		125 X 250	36 C				1			1			
										22	69.6	190	
419-01	Y	25 X 25	5 C			1	2			3			50% Pyrite
		25 X 50	8 C			2	1		1	4			
		50 X 50	10 C			1	1			2			
		50 X 75	13 C			3	1			4			
		50 X 100	15 C	1						1			
		75 X 100	18 C			2				2			
		75 X 125	20 C				1			1			
		100 X 250	34 C				1			1			
										18	82.1	173	
419-02	Y	25 X 50	8 C			1				1			40% Pyrite
		50 X 75	13 C				1			1			
		50 X 150	20 C				1			1			
		75 X 75	15 C			2				2			
		75 X 125	20 C			1				1			
		75 X 225	29 C			1				1			
		100 X 125	22 C			1				1			
		100 X 175	27 C				1			1			
										9	38.3	408	
419-03	Y	15 X 25	4 C					1		1			20% Pyrite
		25 X 50	8 C			3				3			
		50 X 50	10 C			1				1			
		50 X 75	13 C			2				2			
										7	48.2	25	
420-01	Y	25 X 25	5 C			3		1		4			30% Pyrite
		25 X 50	8 C			2				2			
		50 X 50	10 C	1						1			
		50 X 75	13 C			1				1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		50 X 150	20 C			1				1			
		75 X 100	18 C	1			1			2			
		75 X 125	20 C				1			1			
		100 X 150	25 C	1						1			
										13	71.1	123	
420-02	Y	15 X 15	3 C			2				2			35% Pyrite
		15 X 50	7 C			1				1			
		25 X 25	5 C	1		1		1		3			
		25 X 50	8 C			7	1			8			
		25 X 100	13 C			1				1			
		25 X 125	15 C			1				1			
		50 X 50	10 C			1		1		2			
		50 X 75	13 C	1		4				5			
		50 X 100	15 C			2				2			
		50 X 125	18 C			1				1			
		75 X 100	18 C			1				1			
		75 X 150	22 C			1				1			
		150 X 250	38 C						1	1			
										29	97.1	215	
420-03	Y	25 X 25	5 C			2				2			40% Pyrite
		25 X 50	8 C			3				3			~20 grains of galena
		25 X 75	10 C			3				3			~50 grains of native copper ((=250u)
		50 X 50	10 C			1				1			
		50 X 75	13 C			1	1			2			
		75 X 150	22 C			1				1			
		200 X 225	75 M			1				1			
										13	95.1	308	
420-04	Y	25 X 25	5 C			2				2			70% Pyrite
		25 X 50	8 C			1	1			2			~25 grains of galena
		50 X 50	10 C				1			1			~10 grains of arsenopyrite
		50 X 75	13 C	1		2				3			~200 grains of native copper
		50 X 75	50 M			1				1			((=250u)
		50 X 100	50 M				1			1			~50 grains of native copper
		50 X 125	18 C			1				1			()250u)
		75 X 75	15 C	1		1	1			3			
		75 X 100	50 M			1			1	2			
		75 X 150	22 C			1			1	2			
		75 X 200	27 C			1				1			
		100 X 150	25 C			1				1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
TOTAL # OF PANNINGS													
RR-97													
		150 X 175	50 M			1				1			
										21	117.2	296	
421-01	Y	25 X 25	5 C			1				1			70% Pyrite
		25 X 50	8 C			1			1	2			
		50 X 50	10 C	1					1	2			
		50 X 75	13 C			1	1			2			
		50 X 100	15 C				1			1			
		75 X 100	18 C			1	1			2			
		75 X 150	22 C			1	1			2			
		100 X 100	20 C			1				1			
		100 X 200	29 C			1				1			
										14	98.3	149	
421-02	Y	25 X 25	5 C			1				1			70% Pyrite
		25 X 50	8 C			1				1			
		25 X 75	10 C				1			1			
		50 X 75	13 C			2				2			
		125 X 150	27 C			1				1			
										6	58.1	84	
421-03	Y	25 X 25	5 C			1				1			80% Pyrite
		25 X 50	8 C			1	1	2		4			
		50 X 75	13 C				1			1			
		50 X 125	18 C				1			1			
		75 X 125	20 C			1				1			
		75 X 150	22 C				1			1			
										9	119.2	45	
421-04	Y	25 X 25	5 C			4				4			85% Pyrite
		25 X 50	8 C			2		1		3			*10 grains of arsenopyrite
		50 X 50	10 C	1		3				4			
		50 X 75	13 C	1		1				2			
		75 X 100	18 C				1			1			
		75 X 125	20 C			1				1			
		125 X 125	25 C		1					1			
		125 X 150	27 C			1	1			2			
		125 X 175	29 C				1			1			
										19	117.3	169	

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
421-05	Y	15 X 50	7 C					1		1			85% Pyrite
		25 X 25	5 C					1		1			~10 grains of arsenopyrite
		25 X 75	10 C			1				1			
		50 X 50	10 C			1				1			
		50 X 75	13 C			1				1			
		50 X 100	15 C			1				1			
		75 X 125	20 C			2				2			
		100 X 100	20 C			1				1			
		100 X 150	25 C		1					1			
		100 X 225	31 C				1			1			
		125 X 125	75 M					1		1			
		125 X 175	29 C		1					1			
		150 X 425	52 C				1			1			
										14	54.1	1130	
421-06	Y	25 X 25	5 C		1	1				2			90% Pyrite
		25 X 50	8 C				2	1		3			
		50 X 50	10 C			1				1			
		75 X 100	18 C			1				1			
										7	70.6	21	
421-07	Y	25 X 25	5 C				1			1			90% Pyrite
		25 X 50	8 C			4	2	1		7			~25 grains of native copper ((=250u)
		25 X 75	10 C			2	1			3			
		25 X 100	13 C			3				3			
		50 X 50	10 C	1		4	2			7			
		50 X 75	13 C			3		1		4			
		50 X 100	15 C	1		2				3			
		50 X 150	20 C				1			1			
		75 X 100	18 C			1				1			
		100 X 100	20 C				1			1			
		100 X 175	27 C				2			2			
		125 X 175	29 C				1			1			
										34	145.1	163	
422-01	Y	10 X 10	2 C			3				3			70% Pyrite
		15 X 15	3 C	1		8	2			11			
		15 X 25	4 C	1	1	10	2			14			
		15 X 50	7 C			7	1			8			
		15 X 75	9 C					1		1			
		25 X 25	5 C	2		11	2	2		17			
		25 X 50	8 C	1		9	2	1		13			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		25 X 75	10 C			8	1	3		12			
		25 X 100	13 C			1				1			
		50 X 50	10 C	1		2		1		4			
		50 X 75	13 C	2		3		1		6			
		50 X 100	15 C			1		1		2			
		50 X 150	20 C			1				1			
		50 X 200	25 C			1				1			
		100 X 200	29 C			1				1			
										95	141.6	131	
423-01	Y	15 X 25	4 C				1			1			70% Pyrite
		25 X 25	5 C			4				4			
		25 X 50	8 C			2				2			
		25 X 75	10 C			2				2			
		50 X 50	10 C			3	2			5			
		50 X 150	25 M	1						1			
		75 X 100	18 C				1			1			
		150 X 425	100 M				1			1			
										17	72.9	912	
423-02	Y	15 X 15	3 C			3	1		1	5			70% Pyrite
		25 X 25	5 C	1		1				2			
		25 X 50	8 C			1		1		2			
		25 X 75	10 C			3				3			
		50 X 75	13 C			1	1			2			
										14	64.6	24	
423-03	Y	15 X 25	4 C			3				3			70% Pyrite
		25 X 25	5 C			1	2			3			
		25 X 50	8 C			1				1			
		25 X 100	13 C			1				1			
		50 X 50	10 C			2				2			
		50 X 75	13 C			1	1			2			
		75 X 75	15 C			1				1			
		75 X 175	25 C			1				1			
		100 X 100	20 C			1				1			
		100 X 125	75 M	1						1			
										16	74.5	186	
423-04	Y	15 X 25	4 C				1			1			80% Pyrite
		25 X 25	5 C			2				2			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
TOTAL # OF PANNINGS													
RR-97													
		25 X 50	8 C			2	1			3			
		25 X 75	10 C			1				1			
		25 X 100	13 C				1			1			
		50 X 50	10 C			4				4			
		50 X 75	13 C			2				2			
		100 X 125	50 M	1						1			
										15	96.8	74	
423-05	Y	15 X 15	3 C			2	1			3			70% Pyrite
		25 X 25	5 C			6	3			9			
		25 X 50	8 C			5	3			8			
		25 X 75	10 C			1	1		1	3			
		25 X 100	13 C				1			1			
		50 X 50	10 C			1				1			
		50 X 75	13 C	1		2				3			
		50 X 100	15 C	1		4				5			
		50 X 125	18 C	1						1			
										34	91.2	81	
423-06	Y	15 X 15	3 C			2				2			80% Pyrite
		15 X 25	4 C			2	1			3			
		25 X 50	8 C			3			1	4			
		50 X 50	10 C			2	1			3			
		50 X 100	15 C			1				1			
		50 X 125	18 C			1				1			
		75 X 75	15 C			1				1			
										15	61.9	52	
423-07	Y	25 X 25	5 C			1	1			2			90% Pyrite
		25 X 50	8 C			1	1			2			
		25 X 75	10 C			4	1			5			
		25 X 100	13 C			1				1			
		50 X 75	13 C	1		2	1			4			
		50 X 100	15 C	2		1	1			4			
		50 X 150	20 C	2						2			
		75 X 75	15 C			1				1			
		75 X 100	18 C			1	1			2			
		75 X 125	20 C				1			1			
		100 X 100	20 C	1						1			
		100 X 150	25 C			2				2			
		100 X 250	34 C				1			1			
		125 X 175	100 M				1			1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		125 X 225	34 C				1			1			
		125 X 300	75 M				1			1			
		150 X 300	75 M				1			1			
										32	143.2	742	
423-08	Y	15 X 15	3 C				1		1	2			90% Pyrite
		15 X 25	4 C				2		1	3			
		15 X 50	7 C				1			1			
		25 X 25	5 C			1	1			2			
		25 X 50	8 C			4	2	1		7			
		25 X 75	10 C			2	1			3			
		50 X 50	10 C			2				2			
		50 X 75	13 C			1				1			
		50 X 100	15 C	1	1	1				3			
		75 X 100	18 C	1		2				3			
		100 X 200	29 C			1				1			
		125 X 200	31 C				1			1			
										29	83.5	218	
424-01	Y	10 X 10	2 C			3	2			5			70% Pyrite
		15 X 15	3 C			8	1			9			~100 grains of native copper
		15 X 50	7 C				2			2			((=250u)
		25 X 25	5 C	1	1	11	2			15			
		25 X 50	8 C			8	1			9			
		25 X 75	10 C			5	1			6			
		25 X 100	13 C			2				2			
		50 X 50	10 C			5				5			
		50 X 75	13 C			5				5			
		50 X 100	15 C			1				1			
		75 X 100	18 C			1				1			
		200 X 300	46 C				1			1			
										61	77.4	379	
424-02	Y	10 X 10	2 C		1		4			5			70% Pyrite
		15 X 15	3 C		2	10	4			16			~50 grains of native copper ((=250u)
		15 X 25	4 C		1	3	5			9			
		15 X 50	7 C		1	3				4			
		25 X 25	5 C		1	19	2			22			
		25 X 50	8 C		1	13	1	1	1	17			
		25 X 75	10 C			8			1	9			
		25 X 125	15 C			3				3			
		50 X 50	10 C			5	1	1		7			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
TOTAL # OF PANNINGS													
RR-97													
		50 X 75	13 C	1		11	1			13			
		50 X 100	15 C			2	1			3			
		50 X 150	20 C			1				1			
		75 X 75	15 C			1				1			
		75 X 150	50 M	1						1			
		100 X 125	22 C				2			2			
										113	128.0	197	
424-03	Y	10 X 10	2 C		1	1	2			4			75% Pyrite
		15 X 15	3 C		1	5	2			8			~25 grains of native copper ((=250u)
		15 X 25	4 C		1	4	2		1	8			
		15 X 50	7 C			4	1			5			
		25 X 25	5 C			9	3			12			
		25 X 50	8 C			6	1			7			
		25 X 75	10 C			2				2			
		25 X 100	13 C			5				5			
		50 X 50	10 C			4				4			
		50 X 75	13 C			8				8			
		50 X 100	15 C			1				1			
		75 X 75	15 C			2				2			
		75 X 100	18 C			1				1			
		75 X 125	20 C				1			1			
		100 X 125	50 M	1						1			
		100 X 150	25 C			1				1			
										70	60.3	321	
425-01	Y	15 X 15	3 C				2	1		3			80% Pyrite
		15 X 25	4 C			1		1		2			
		25 X 25	5 C				2	4		6			
		25 X 50	8 C			1	3	1		5			
		25 X 75	10 C				1			1			
		25 X 125	15 C				1			1			
		50 X 50	10 C				2			2			
		50 X 75	13 C					1		1			
		50 X 125	18 C					1		1			
		50 X 150	20 C					1		1			
		75 X 100	18 C				1			1			
		100 X 150	25 C					1		1			
		100 X 200	29 C					1		1			
		200 X 225	125 M					1		1			
										27	113.7	491	

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	TOTAL # OF PANNINGS	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97														
425-02	Y		10 X 10	2 C				1			1			70% Pyrite
			15 X 15	3 C			4	4	1		9			
			15 X 25	4 C				4		1	5			
			15 X 50	7 C			1	3			4			
			25 X 25	5 C		1	9	5		1	16			
			25 X 50	8 C		2	10	5			17			
			25 X 75	10 C			4				4			
			25 X 100	13 C			2	1			3			
			25 X 125	15 C			2				2			
			50 X 50	10 C			9	1	1		11			
			50 X 75	13 C	3		5				8			
			50 X 100	15 C			5	1			6			
			50 X 125	18 C			1				1			
			75 X 75	15 C			4	1			5			
			75 X 125	20 C			1	1			2			
			125 X 225	34 C				1			1			
			275 X 500	66 C				1			1			
											96	117.9	881	
425-03	Y		15 X 15	3 C			5	1			6			60% Pyrite
			15 X 25	4 C			2	1		1	4			
			15 X 50	7 C			3				3			
			25 X 25	5 C			10	4			14			
			25 X 50	8 C			18	1			19			
			25 X 75	10 C			9				9			
			25 X 125	15 C			2				2			
			50 X 50	10 C			12		1		13			
			50 X 75	13 C			15	1			16			
			50 X 100	15 C			3				3			
			50 X 125	18 C			1				1			
			75 X 75	15 C			3				3			
			75 X 125	50 M	1						1			
			75 X 150	22 C			1				1			
			100 X 125	50 M			1				1			
											96	119.6	243	
426-01	Y		10 X 10	2 C				1			1			75% Pyrite
			15 X 15	3 C			4	1		2	7			
			15 X 25	4 C				2		1	3			
			15 X 50	7 C			1				1			
			25 X 25	5 C			9		1		10			
			25 X 50	8 C	1		15	1	1	1	19			
			25 X 75	10 C			2		1		3			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		25 X 100	13 C					2		2			
		25 X 125	15 C			1				1			
		50 X 50	10 C	2		7		1		10			
		50 X 75	13 C	2		4				6			
		50 X 100	15 C	1		3			1	5			
		50 X 125	18 C			3				3			
		75 X 75	15 C	1						1			
		75 X 150	22 C			1	1			2			
		75 X 175	25 C			1				1			
		100 X 100	20 C	1						1			
		100 X 150	50 M	1						1			
		100 X 175	27 C			1				1			
		100 X 300	38 C	1						1			
										79	110.1	406	
427-01	Y	10 X 10	2 C			3	1			4			70% Pyrite
		15 X 15	3 C			9	1			10			
		15 X 25	4 C			4		2		6			
		15 X 50	7 C			1				1			
		25 X 25	5 C	2		12	1	2		17			
		25 X 50	8 C	1		5		1		7			
		25 X 75	10 C			3		2		5			
		25 X 100	13 C			2				2			
		50 X 50	10 C			3		1		4			
		50 X 75	13 C	3		2		1		6			
		50 X 100	15 C			5	1			6			
		50 X 150	20 C			1				1			
		75 X 100	50 M			1	1			2			
		75 X 125	50 M	1						1			
										72	67.3	308	
428-01	Y	15 X 15	3 C			4	2		1	7			65% Pyrite
		15 X 25	4 C			6	4		1	11			
		15 X 50	7 C			4				4			
		25 X 25	5 C	2		8	3			13			
		25 X 50	8 C		2	3	2			7			
		25 X 75	10 C			2				2			
		50 X 50	10 C			2				2			
		50 X 75	13 C	1		3				4			
		50 X 125	18 C				1			1			
		100 X 125	125 M			1	1			2			
										53	71.7	394	

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
429-01	Y	15 X 15	3 C		1		1			2			20% Pyrite
		15 X 25	4 C				1			1			~25 grains of native copper ((=250u)
		25 X 25	5 C			2	1			3			
		25 X 50	8 C	1		1				2			
		25 X 75	10 C			1	1			2			
		50 X 50	10 C	1		5				6			
		50 X 75	13 C		1	3				4			
		50 X 100	15 C	1		1				2			
		50 X 150	20 C			1				1			
		75 X 75	15 C			1				1			
		75 X 150	22 C				1			1			
										25	61.5	144	
429-02	Y	15 X 15	3 C	1	1	5		1		8			20% Pyrite
		15 X 25	4 C			1				1			~25 grains of native copper ((=250u)
		15 X 50	7 C			2		2		4			
		25 X 25	5 C	1		6	1			8			
		25 X 50	8 C		1	4				5			
		25 X 75	10 C			1				1			
		50 X 50	10 C	2		3				5			
		50 X 75	13 C			6				6			
		50 X 75	50 M			1				1			
		50 X 125	18 C			1				1			
		75 X 150	22 C			1				1			
										41	47.4	187	
429-03	Y	15 X 15	3 C	1	1	2				4			50% Pyrite
		15 X 50	7 C			5				5			~10 grains of native copper ((=250u)
		25 X 25	5 C			6				6			
		25 X 50	8 C	1		5	1			7			
		25 X 75	10 C			3	1	1		5			
		50 X 50	10 C			3				3			
		50 X 75	13 C	3	1	5				9			
		50 X 100	15 C			1				1			
		50 X 125	25 M	1		1				2			
		75 X 100	18 C			2				2			
		75 X 100	75 M	1						1			
		75 X 125	75 M			1				1			
		75 X 300	50 M			1				1			
		75 X 350	75 M			1				1			
		100 X 100	20 C			1				1			
		125 X 175	50 M			1				1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
TOTAL # OF PANNINGS													
RR-97													
										50	67.7	1032	
429-04	Y	10 X 10	2 C			3				3			80% Pyrite
		15 X 15	3 C			2				2			
		15 X 25	4 C			2	2	1		5			
		15 X 50	7 C			3	1			4			
		25 X 25	5 C		2	13	3			18			
		25 X 50	8 C	1	1	17	3			22			
		25 X 75	10 C		1	4	1			6			
		25 X 100	13 C			1				1			
		50 X 50	10 C			2				2			
		50 X 75	13 C			3				3			
		50 X 100	15 C	2						2			
		75 X 100	50 M	1						1			
		75 X 150	25 M			1				1			
										70	85.9	141	
430-01	Y	15 X 15	3 C			1				1			25% Pyrite
		15 X 25	4 C			2	1			3			
		15 X 50	7 C			3				3			
		25 X 25	5 C			1				1			
		25 X 50	8 C			5				5			
		25 X 75	10 C			1				1			
		50 X 50	10 C			1				1			
		50 X 75	13 C			3			1	4			
		50 X 125	18 C			1				1			
		75 X 75	15 C			2				2			
		75 X 100	18 C				1			1			
		75 X 200	50 M	1						1			
		125 X 200	31 C			1				1			
										25	37.9	505	
430-02	Y	15 X 15	3 C			1	1			2			85% Pyrite
		25 X 25	5 C	1		1		1	1	4			
		50 X 50	10 C			1				1			
		50 X 75	13 C	1						1			
										8	99.3	7	
431-01	Y	15 X 15	3 C			15	1			16			70% Pyrite
		15 X 25	4 C		2		1			3			*25 grains of galena
		15 X 50	7 C				1			1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		15 X 100	12 C				1			1			
		25 X 25	5 C	1		28	3		1	33			
		25 X 50	8 C	1		32	2	2		37			
		25 X 75	10 C			8	1			9			
		25 X 100	13 C	1					1	2			
		50 X 50	10 C	1	1	19		1		22			
		50 X 50	50 M			2				2			
		50 X 75	13 C	2		8	2			12			
		50 X 100	15 C	1		7				8			
		50 X 100	50 M	1		1				2			
		50 X 125	18 C	2		3	2			7			
		75 X 75	15 C			6				6			
		75 X 75	50 M			1				1			
		75 X 100	18 C		1		2			3			
		75 X 125	20 C	1		3				4			
		75 X 175	25 C	1		1				2			
		75 X 225	29 C				1			1			
		100 X 100	75 M	1						1			
		100 X 125	22 C				1			1			
		100 X 150	25 C	1						1			
		125 X 150	27 C				1			1			
		175 X 200	50 M	1						1			
										177	122.2	713	
431-02	Y	15 X 15	3 C		1	10	2	1		14			80% Pyrite
		15 X 25	4 C		1	9	3			13			~25 grains of galena
		15 X 50	7 C			8			1	9			
		25 X 25	5 C			19	3	2	1	25			
		25 X 50	8 C			27	4			31			
		25 X 75	10 C	3		7	3	2		15			
		25 X 100	13 C	1						1			
		50 X 50	10 C			9	1	2		12			
		50 X 75	13 C	3		9				12			
		50 X 100	15 C	2		5	1			8			
		50 X 125	18 C			1				1			
		75 X 75	15 C			1				1			
		75 X 100	18 C			4		1		5			
		75 X 100	50 M	2		1				3			
		75 X 125	20 C			4				4			
		75 X 125	50 M	1						1			
		75 X 150	50 M	1		2				3			
		100 X 125	50 M			2				2			
		100 X 150	25 C				1			1			
		125 X 150	50 M					1		1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		150 X 200	75 M	1						1			
		175 X 225	75 M				1			1			
										164	130.3	902	
432-01	Y	15 X 15	3 C				1	1		2			20% Pyrite
		15 X 25	4 C			1	1		1	3			
		25 X 25	5 C			1	2			3			
		25 X 50	8 C			3				3			
		50 X 50	10 C			1				1			
		50 X 75	13 C			2				2			
										14	24.1	54	
432-02	Y	15 X 15	3 C			3			1	4			80% Pyrite
		15 X 25	4 C			1			1	2			
		25 X 25	5 C			5	2			7			
		25 X 50	8 C		1	9	2	3		15			
		25 X 75	10 C			1	1			2			
		50 X 50	10 C		1	11				12			
		50 X 75	13 C	1		5		2		8			
		75 X 75	15 C			1				1			
		75 X 125	20 C				1			1			
		100 X 100	25 M			1				1			
		100 X 150	75 M				1			1			
		125 X 175	50 M			1				1			
		150 X 300	75 M	1						1			
		175 X 200	100 M				1			1			
										57	183.2	454	
432-03	Y	15 X 15	3 C			5	1	1		7			80% Pyrite
		15 X 50	7 C			2				2			
		25 X 25	5 C			7	1	1		9			
		25 X 50	8 C			4		2		6			
		25 X 75	10 C			4				4			
		50 X 50	10 C			5				5			
		50 X 75	13 C			2				2			
		50 X 100	15 C		1	1				2			
		50 X 150	20 C			1				1			
		75 X 75	15 C			1				1			
		75 X 100	25 M	1		1				2			
		75 X 200	27 C	1						1			
		125 X 200	31 C				1			1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97										43	116.7	169	
432-04	Y	10 X 10	2 C			1				1			90% Pyrite
		15 X 15	3 C			4	1			5			~25 grains of galena
		15 X 25	4 C			1	1	2	1	5			
		15 X 50	7 C			1				1			
		25 X 25	5 C	2		3	1	1		7			
		25 X 50	8 C	1		2	1	1		5			
		25 X 75	10 C			1		1		2			
		25 X 100	13 C	1				1		2			
		50 X 50	10 C			2	2			4			
		50 X 75	13 C			4				4			
		50 X 100	15 C			3	1			4			
		50 X 225	27 C			1				1			
		75 X 75	15 C		1					1			
		75 X 100	18 C				1			1			
		75 X 150	22 C				1			1			
										44	173.4	82	
432-05	Y	15 X 15	3 C					1		1			90% Pyrite
		15 X 50	7 C			1		1		2			~5 grains of arsenopyrite
		25 X 25	5 C			2	1	4		7			~20 grains of galena
		25 X 50	8 C			3		4		7			
		50 X 50	10 C					2		2			
		50 X 75	13 C			2				2			
		50 X 75	25 M			1		1		2			
		75 X 75	15 C			1				1			
										24	140.6	29	
433-01	Y	15 X 15	3 C			1	1	2		4			70% Pyrite
		15 X 25	4 C			1		1		2			
		25 X 25	5 C	1		1		1	1	4			
		25 X 50	8 C			1	1	1		3			
		25 X 75	10 C			4				4			
		25 X 100	13 C			2				2			
		50 X 50	10 C	2		4		2		8			
		50 X 75	13 C			3				3			
		50 X 75	50 M			1				1			
		50 X 100	15 C			2				2			
		75 X 75	15 C			2				2			
		75 X 100	18 C				1			1			
		75 X 125	20 C			3				3			
		100 X 150	50 M			1			1	2			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		125 X 275	38 C				1			1			
		125 X 325	42 C				1			1			
		250 X 325	125 M				1			1			
		275 X 450	150 M				1			1			
										45	107.5	2591	
433-02	Y	15 X 15	3 C			3	1			4			85% Pyrite
		15 X 25	4 C			1	1	1		3			
		15 X 50	7 C			2	2		1	5			
		25 X 25	5 C			2	2	2	1	7			
		25 X 50	8 C	1		5	3	2	1	12			
		25 X 75	10 C	1		3	1			5			
		25 X 175	20 C				1			1			
		50 X 50	10 C	1		2	1			4			
		50 X 75	13 C			4	1	1		6			
		50 X 100	15 C			1	2			3			
		50 X 125	18 C	1			3			4			
		75 X 75	15 C	1						1			
		75 X 100	18 C				1			1			
		75 X 125	20 C			1	1			2			
		125 X 150	75 M				1			1			
										59	221.2	127	
433-03	Y	10 X 10	2 C			2				2			90% Pyrite
		15 X 15	3 C			4		3	1	8			~100 grains of galena
		15 X 25	4 C			8	4	6	3	21			~10 grains of electrum
		15 X 50	7 C			8		5	5	18			~70% of modified gold population
		15 X 75	9 C				1			1			has been transported (200 meters.
		25 X 25	5 C			19	9	10	10	48			8 modified gold grains have galena-
		25 X 50	8 C			12	11	4	5	32			filled inclusions; SEM confirmed.
		25 X 75	10 C			5	5	2	4	16			
		25 X 100	13 C			3			1	4			
		50 X 50	10 C			10	4	2	7	23			
		50 X 75	13 C			9	9	3	9	30			
		50 X 500	50 C			2	4		9	15			
		50 X 125	18 C				6		2	8			
		50 X 150	20 C						2	2			
		50 X 175	22 C				1			1			
		75 X 75	15 C			2	2			4			
		75 X 100	18 C			3	1	1	1	6			
		75 X 100	75 M						1	1			
		75 X 125	75 M				2		1	3			
		75 X 125	20 C				3			3			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		75 X 150	22 C			1			2	3			
		75 X 225	29 C				1		1	2			
		100 X 125	22 C			1	1		1	3			
		100 X 150	25 C			1	3		1	5			
		100 X 150	75 M				1			1			
		100 X 175	27 C				1			1			
		125 X 150	27 C				2			2			
		125 X 175	29 C				3		1	4			
		125 X 175	100 M				1		1	2			
		125 X 200	31 C						1	1			
		125 X 225	75 M				1		3	4			
		125 X 275	75 M				2			2			
		125 X 300	40 C						1	1			
		125 X 325	75 M				1			1			
		150 X 150	75 M				1		1	2			
		150 X 200	34 C				1			1			
		150 X 200	100 M				1		1	2			
		150 X 225	36 C						1	1			
		175 X 225	38 C						1	1			
		175 X 575	150 M				1			1			
		200 X 275	44 C				1		1	2			
		250 X 475	125 M				1			1			
										289	455.9	2614	
433-04	Y	10 X 10	2 C						2	2			90% Pyrite
		15 X 15	3 C			5	3	3	3	14			~250 grains of galena
		15 X 25	4 C			4	4	2	6	16			~15 grains of electrum
		15 X 50	7 C			4	1		1	6			~70% of modified gold population
		25 X 25	5 C			8	5	3	5	21			has been transported (200 meters.
		25 X 50	8 C			8	3	2	5	18			Several gold grains have galena-
		25 X 75	10 C			6	3	4	1	14			filled inclusions.
		25 X 100	13 C			2				2			
		50 X 50	10 C			11	2	6	4	23			
		50 X 75	13 C			5	3	6	6	20			
		50 X 100	15 C				1	1	4	6			
		50 X 125	18 C				3	1	3	7			
		50 X 150	20 C			2			1	3			
		75 X 75	15 C	1		2	4		2	9			
		75 X 100	18 C			1			4	5			
		75 X 125	20 C			1	4		2	7			
		75 X 125	75 M						1	1			
		75 X 150	22 C			1	3		2	6			
		75 X 175	25 C				1			1			
		75 X 175	75 M				1		1	2			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		100 X 100	20 C				1			1			
		100 X 125	75 M				2			2			
		100 X 150	25 C				1			1			
		100 X 150	75 M				1		1	2			
		100 X 175	27 C				2		1	3			
		100 X 200	29 C				2			2			
		100 X 225	31 C				1			1			
		125 X 125	25 C			1	1			2			
		125 X 150	27 C				2			2			
		125 X 150	75 M				1		1	2			
		125 X 175	29 C				1			1			
		125 X 175	100 M				2			2			
		125 X 200	75 M				1			1			
		125 X 225	34 C				2		1	3			
		150 X 200	34 C				1			1			
		150 X 350	100 M				1			1			
		200 X 250	42 C				1			1			
		225 X 375	125 M				1			1			
		250 X 325	100 M				1			1			
		250 X 425	100 M						1	1			
		450 X 550	80 C						1	1			
										215	374.1	1928	
433A-01	Y	10 X 10	2 C			3		2		5			95% Pyrite
		15 X 15	3 C			9	2	6	1	18			~200 grains of galena
		15 X 25	4 C			4	2	8		14			~10 grains of electrum
		15 X 50	7 C			2	1	1		4			~60% of modified gold population
		25 X 25	5 C			17	2	10	2	31			has been transported (200 meters.
		25 X 50	8 C			16	3	7	1	27			5 gold grains have galena-
		25 X 75	10 C			6	2	2		10			filled inclusions.
		25 X 100	13 C			2		1		3			
		25 X 150	18 C					1		1			
		50 X 50	10 C			16	2	8	1	27			
		50 X 75	13 C			8	4	3	2	17			
		50 X 75	50 M			3				3			
		50 X 100	15 C	1		3	2			6			
		50 X 125	18 C			4	1			5			
		75 X 75	15 C			4				4			
		75 X 100	18 C			1	1			2			
		75 X 125	20 C			1				1			
		75 X 150	22 C						1	1			
		75 X 175	25 C				1		2	3			
		75 X 200	27 C				1			1			
		100 X 100	20 C				2			2			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		100 X 175	27 C				1			1			
		100 X 200	29 C				1			1			
		100 X 250	34 C						1	1			
		125 X 150	27 C				1			1			
		150 X 225	100 M				1			1			
		175 X 200	36 C			1				1			
		175 X 400	75 M			1				1			
		200 X 225	100 M				1			1			
		200 X 250	42 C	1		1				2			
		200 X 275	100 M						1	1			
		200 X 300	46 C				1			1			
		250 X 300	75 M			1				1			
		250 X 475	125 M				1			1			
		325 X 475	125 M				1			1			
										200	633.2	954	
434-01	Y	15 X 15	3 C			1	2	1		4			70% Pyrite
		15 X 50	7 C			1		1		2			~500 grains of galena
		25 X 25	5 C			1		1		2			
		50 X 50	10 C			1				1			
		50 X 125	18 C			1				1			
		75 X 125	50 M			1				1			
		100 X 150	25 C				1			1			
										12	132.5	61	
434-02	Y	15 X 15	3 C					1		1			65% Pyrite
		15 X 25	4 C					3		3			~250 grains of galena
		15 X 50	7 C			3		1		4			
		25 X 25	5 C	1				1		2			
		25 X 50	8 C			1		1		2			
		25 X 75	10 C			1			1	2			
		50 X 50	10 C			3		1		4			
		50 X 75	13 C			2		1	1	4			
		50 X 100	15 C				1		1	2			
		50 X 125	18 C			1		1		2			
										26	185.9	35	
434-03	Y	15 X 15	3 C			2				2			65% Pyrite
		15 X 25	4 C			2		1		3			~200 grains of galena
		15 X 50	7 C			1		2		3			
		25 X 25	5 C			3		1	1	5			
		25 X 50	8 C			2		2		4			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		25 X 75	10 C					1		1			
		50 X 50	10 C			1		2		3			
		75 X 75	15 C			1				1			
		75 X 150	50 M	1						1			
		100 X 100	50 M	1					1	2			
		300 X 425	75 M				1			1			
										26	135.9	649	
435-01	Y	15 X 15	3 C			3				3			70% Pyrite
		25 X 25	5 C	1		1				2			~250 grains of galena
		25 X 50	8 C			2		1	1	4			
		50 X 50	10 C	1						1			
		50 X 100	15 C	1						1			
		75 X 100	18 C			1				1			
		125 X 225	100 M				1			1			
		200 X 450	75 M			1				1			
										14	147.5	574	
436-01	Y	15 X 50	7 C			1		1	1	3			60% Pyrite
		25 X 25	5 C		1	2	1			4			
		25 X 50	8 C			1				1			
		25 X 75	10 C			2				2			
		50 X 50	10 C		1	1	1	1		4			
		50 X 75	13 C		1	5		1		7			
		50 X 100	15 C			1				1			
		50 X 125	50 M			1				1			
		75 X 75	15 C	1						1			
		75 X 100	18 C			2				2			
		100 X 125	22 C			1				1			
										27	102.3	121	
436-02	Y	15 X 50	7 C			1				1			50% Pyrite
		50 X 75	13 C			2				2			
		75 X 150	22 C	1						1			
		100 X 175	75 M					1		1			
		175 X 250	50 M					1		1			
										6	64.8	471	
436-03	Y	15 X 50	7 C			1				1			40% Pyrite
		25 X 25	5 C			1	1	2		4			
		25 X 50	8 C	2		1	1	1		5			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		25 X 75	10 C			2				2			
		25 X 125	15 C	1						1			
		50 X 50	10 C			1				1			
		50 X 75	13 C	2		1		1		4			
		50 X 100	15 C			1		1		2			
		75 X 150	22 C			1				1			
										21	91.8	73	
436-04	Y	15 X 25	4 C			3	1			4			40% Pyrite
		25 X 25	5 C		2	2	2			6			~25 grains of galena
		25 X 50	8 C	2		4	1		1	8			
		25 X 75	10 C	1						1			
		50 X 50	10 C	1		1		1		3			
		50 X 75	13 C					2		2			
		50 X 100	15 C			2				2			
		100 X 150	50 M			1			1	2			
		200 X 200	100 M	1						1			
										29	110.9	409	
436-05	Y	15 X 15	3 C			2	1			3			30% Pyrite
		25 X 25	5 C					2		2			
		25 X 50	8 C	1		2			1	4			
		50 X 50	10 C			2				2			
		50 X 75	13 C			1		1		2			
		50 X 125	18 C			1				1			
		50 X 200	25 C				1			1			
										15	59.9	91	
437-01	Y	10 X 10	2 C				1			1			50% Pyrite
		15 X 25	4 C			2			1	3			~50 grains of galena
		25 X 25	5 C			4		3		7			
		25 X 50	8 C			1				1			
		25 X 75	10 C			1				1			
		50 X 50	10 C			2		2		4			
		50 X 75	13 C			3		1		4			
		75 X 100	18 C	1						1			
		75 X 125	20 C			1		1		2			
		75 X 125	50 M					1		1			
		100 X 100	25 M			1				1			
										26	65.4	189	

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		15 X 50	7 C	1	1	2		1		5			
		25 X 25	5 C	2	2	5	1			10			
		25 X 50	8 C	4	1	2				7			
		25 X 75	10 C			2				2			
		25 X 125	15 C	1						1			
		50 X 50	10 C	4	1	1				6			
		50 X 75	13 C	3		4				7			
		50 X 100	15 C	3	1					4			
		50 X 100	25 M	1						1			
		50 X 125	18 C	1						1			
		75 X 75	15 C	2						2			
		75 X 125	25 M	2						2			
										57	78.8	198	
443-07	Y	15 X 15	3 C			1	2			3			35% Pyrite
		15 X 25	4 C	1	1	3	1			6			
		15 X 50	7 C	3		3	1			7			
		25 X 25	5 C	5	1	6				12			
		25 X 50	8 C	6	2	3	1			12			
		25 X 75	10 C	4		2				6			
		25 X 100	13 C	1						1			
		50 X 50	10 C	3	3	2				8			
		50 X 75	13 C	8		2				10			
		50 X 100	15 C	2	2					4			
		50 X 125	18 C	1						1			
		75 X 75	15 C	2	1					3			
		75 X 100	18 C		1					1			
		75 X 125	50 M	1						1			
		100 X 100	20 C				1			1			
		100 X 125	22 C		1					1			
		100 X 150	25 C		1					1			
		125 X 150	27 C	1						1			
		250 X 550	68 C		1					1			
										80	106.7	1038	
444-01	Y	15 X 15	3 C	1		2				3			5% Pyrite
		15 X 25	4 C			2		1		3			*25 grains of native copper ((=250u)
		15 X 50	7 C	1		3				4			
		25 X 25	5 C		2	3				5			
		25 X 50	8 C	2		2	2			6			
		25 X 75	10 C			1				1			
		50 X 50	10 C	1		1				2			
		50 X 75	13 C	1						1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		125 X 200	31 C	1						1			
		250 X 500	65 C				1			1			
		425 X 625	150 M		1					1			
										75	109.6	3795	
443-04	Y	15 X 15	3 C	2		4				6			50% Pyrite
		15 X 25	4 C			1				1			*50 grains of native copper ((=250u)
		15 X 50	7 C			2				2			
		25 X 25	5 C	4		7	1			12			
		25 X 50	8 C	4	2	6	1			13			
		25 X 75	10 C			2				2			
		25 X 100	13 C	4						4			
		50 X 50	10 C	3		4				7			
		50 X 75	13 C	6						6			
		50 X 100	15 C	4						4			
		75 X 75	15 C	2	1					3			
		75 X 100	18 C	3	1					4			
		75 X 125	20 C		2					2			
		100 X 125	22 C		2					2			
		100 X 200	50 M	1						1			
		325 X 650	79 C		1					1			
										70	114.4	1497	
443-05	Y	15 X 15	3 C		1	1	2			4			30% Pyrite
		15 X 25	4 C			2	1			3			*50 grains of native copper ((=250u)
		15 X 50	7 C	1	1	1				3			
		25 X 25	5 C	1		2		1		4			
		25 X 50	8 C	5	2	2	1			10			
		25 X 75	10 C	4	1		1			6			
		25 X 100	13 C	1						1			
		50 X 50	10 C	2	1	1				4			
		50 X 75	13 C	1	2		1			4			
		50 X 100	15 C	1	1					2			
		50 X 150	20 C	1						1			
		75 X 75	15 C			2				2			
		75 X 100	18 C	1						1			
		75 X 150	22 C	1						1			
		100 X 100	20 C	1						1			
										47	111.4	122	
443-06	Y	15 X 15	3 C	1		3				4			30% Pyrite
		15 X 25	4 C	2	1	2				5			*25 grains of native copper ((=250u)

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		50 X 75	13 C	9		2				11			
		50 X 100	15 C	4		1				5			
		75 X 100	18 C	4						4			
		75 X 100	25 M	2	1					3			
		75 X 125	20 C	1	1		1			3			
		75 X 150	75 M		1					1			
		75 X 175	25 C		1					1			
		125 X 175	29 C		1					1			
		150 X 200	34 C		1					1			
										72	132.2	366	
443-02	Y	15 X 15	3 C			5		1		6			40% Pyrite
		15 X 25	4 C		1	2	1			4			~25 grains of native copper ((=250u)
		15 X 50	7 C			3				3			
		25 X 25	5 C	2	1	3				6			
		25 X 50	8 C	3	1	10				14			
		25 X 75	10 C	4		2				6			
		50 X 50	10 C	1		4				5			
		50 X 75	13 C	6		3				9			
		50 X 100	15 C	1		2				3			
		75 X 75	25 M	2						2			
		75 X 125	20 C		1					1			
		125 X 250	36 C		1					1			
		125 X 275	38 C		1					1			
										61	80.1	417	
443-03	Y	15 X 15	3 C	1		2	1			4			50% Pyrite
		15 X 25	4 C			2				2			~100 grains of native copper
		15 X 50	7 C	1	1	4	1			7			((=250u)
		25 X 25	5 C	1		1				2			
		25 X 50	8 C	8		6	1			15			
		25 X 75	10 C	1		2				3			
		50 X 50	10 C	1	1	3				5			
		50 X 75	13 C	11		3	1			15			
		50 X 100	15 C	2	1	5				8			
		50 X 125	18 C	2						2			
		50 X 100	25 M	1						1			
		75 X 75	15 C	2						2			
		75 X 100	18 C		1					1			
		75 X 175	25 C		1					1			
		100 X 100	20 C	1						1			
		100 X 125	25 M	1	1					2			
		100 X 150	25 C	1						1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
										10	58.8	71	
439-05	Y	15 X 15	3 C		1	2				3			10% Pyrite
		15 X 25	4 C			1				1			
		25 X 25	5 C	1						1			
		25 X 50	8 C	1		2				3			
		50 X 50	10 C			1				1			
		50 X 75	13 C			1				1			
		50 X 75	50 M			1				1			
										11	36.2	64	
441-01	Y	15 X 15	3 C			1	1			2			20% Pyrite
		15 X 50	7 C			4	1			5			~25 grains of galena
		25 X 25	5 C	1		2		1	1	5			~10 grains of native copper ((=250u)
		25 X 50	8 C	3	1	7				11			
		25 X 75	10 C	3		2				5			
		50 X 50	10 C	1		5				6			
		50 X 75	13 C	2		3				5			
		50 X 150	20 C	1						1			
		75 X 150	22 C	1						1			
		75 X 175	25 C		1					1			
		100 X 125	25 M	1						1			
										43	40.1	353	
442-01	Y	15 X 15	3 C			2		1		3			20% Pyrite
		15 X 25	4 C			1				1			
		25 X 25	5 C	3		4	1			8			
		25 X 50	8 C	1						1			
		25 X 75	10 C	1		1				2			
		50 X 50	10 C			1				1			
		50 X 75	13 C	2						2			
		50 X 125	18 C	1						1			
		75 X 100	75 M						1	1			
										20	16.6	418	
443-01	Y	15 X 25	4 C	1		3				4			60% Pyrite
		15 X 50	7 C	2		5				7			~50 grains of native copper ((=250u)
		25 X 25	5 C		1	5				6			~10 grains of native copper ()250u)
		25 X 50	8 C	1		2				3			
		25 X 75	10 C	4		3				7			
		25 X 100	13 C	2		1				3			
		50 X 50	10 C	8		4				12			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
TOTAL # OF PANNINGS													
RR-97													
		15 X 50	7 C			2				2			
		25 X 25	5 C			4				4			
		25 X 50	8 C	3		3		1		7			
		25 X 75	10 C	2		2				4			
		25 X 100	13 C				1			1			
		50 X 50	10 C	1		1				2			
		50 X 75	13 C	2		3				5			
		50 X 100	15 C				1			1			
		75 X 125	20 C		2					2			
										29	59.7	131	
439-02	Y	15 X 25	4 C	1		1				2			20% Pyrite
		25 X 25	5 C	1						1			
		25 X 50	8 C	2		4				6			
		25 X 75	10 C			2				2			
		25 X 100	13 C			1				1			
		25 X 125	15 C	1						1			
		50 X 50	10 C			1				1			
		50 X 75	13 C	3		1				4			
		50 X 100	15 C			1				1			
		50 X 125	18 C				1			1			
		50 X 150	20 C		1					1			
		75 X 75	15 C	1						1			
		75 X 100	18 C	2			1			3			
		150 X 175	31 C		1					1			
										26	74.2	225	
439-03	Y	25 X 25	5 C			1				1			15% Pyrite
		25 X 75	10 C			1				1			
		50 X 50	10 C		1	1				2			
		75 X 125	25 M	2						2			
										6	49.3	88	
439-04	Y	15 X 15	3 C		1	1				2			15% Pyrite
		15 X 25	4 C			1				1			
		15 X 50	7 C	1		1				2			
		25 X 25	5 C			1				1			
		25 X 75	10 C			1				1			
		50 X 50	10 C			1				1			
		75 X 150	22 C	1						1			
		100 X 100	20 C	1						1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
438-01	Y	15 X 15	3 C			1				1			85% Pyrite
		15 X 25	4 C			2	1		1	4			~100 grains of galena
		25 X 25	5 C		1	2			1	4			2 grains of electrum
		25 X 50	8 C			2				2			
		25 X 75	10 C			1			1	2			
		50 X 50	10 C	1		4	1	2		8			
		50 X 75	13 C			2				2			
		75 X 75	15 C				1			1			
		75 X 125	25 M			1				1			
		75 X 175	25 C				1			1			
		75 X 200	75 M						1	1			
		125 X 150	27 C				1			1			
		275 X 400	100 M				1			1			
										29	198.9	544	
438-02	Y	25 X 50	8 C	1		1			1	3			90% Pyrite
		25 X 75	10 C			3				3			~150 grains of galena
		25 X 100	13 C			1				1			5 grains of electrum
		50 X 50	10 C			1	1			2			
		50 X 50	50 M					1	1	2			
		50 X 75	13 C	1		3				4			
		50 X 100	15 C	1				1		2			
		75 X 100	18 C					1		1			
		75 X 150	25 M			1				1			
										19	250.3	38	
438-03	Y	15 X 15	3 C	1		6		1	1	9			85% Pyrite
		15 X 25	4 C			2	2	2	1	7			~100 grains of galena
		15 X 50	7 C			7				7			8 grains of electrum
		25 X 25	5 C			9	1	3	1	14			
		25 X 50	8 C	2		12			1	15			
		25 X 75	10 C			1	1	1	1	4			
		50 X 50	10 C		1	4				5			
		50 X 75	13 C			1	1			2			
		50 X 75	50 M				1			1			
		50 X 100	15 C				1			1			
		50 X 125	18 C				1			1			
		75 X 100	18 C				1		2	3			
		150 X 275	100 M				1			1			
										70	217.9	205	
439-01	Y	15 X 15	3 C	1						1			20% Pyrite

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		75 X 75	15 C	1						1			
										26	55.5	44	
444-02	Y	10 X 10	2 C	1						1			5% Pyrite
		15 X 15	3 C			1		1		2			~150 grains of native copper
		15 X 25	4 C	2						2			((=250u)
		15 X 50	7 C	2						2			
		25 X 25	5 C	6		4				10			
		25 X 50	8 C		1			1		2			
		50 X 50	10 C			1				1			
		50 X 75	13 C			1				1			
		50 X 100	15 C	1						1			
		75 X 100	18 C	1						1			
		75 X 125	20 C	1						1			
										24	46.6	92	
445-01	Y	15 X 25	4 C	2	1	2				5			15% Pyrite
		25 X 25	5 C	3		1			1	5			~250 grains of native copper
		25 X 50	8 C	3	1	2		1		7			((=250u)
		25 X 75	10 C	2						2			~50 grains of native copper ()250u)
		50 X 50	10 C	1		1				2			
		50 X 75	13 C	4		1	1			6			
		50 X 100	15 C	2						2			
		50 X 125	18 C	1	1					2			
		75 X 75	15 C	1						1			
		100 X 125	22 C	1						1			
		100 X 200	29 C			1				1			
		125 X 175	50 M		1					1			
		150 X 275	40 C	1						1			
		200 X 350	50 C	1						1			
										37	115.3	566	
446-01	Y	15 X 15	3 C	2		1				3			7% Pyrite
		15 X 25	4 C	3						3			~100 grains of native copper
		15 X 50	7 C		1					1			((=250u)
		25 X 25	5 C	2	2		2		2	8			~10 grains of native copper ()250u)
		25 X 50	8 C	1		1		1		3			
		25 X 75	10 C	1						1			
		50 X 50	10 C		1					1			
		50 X 75	13 C	2	2					4			
		50 X 100	15 C		1					1			
		75 X 100	18 C	1	1					2			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		75 X 150	22 C	1						1			
										28	74.1	97	
446-02	Y	15 X 50	7 C	3		1				4			5% Pyrite
		25 X 25	5 C	2	1					3			~150 grains of native copper
		25 X 50	8 C	3	1	4	1			9			((=250u)
		25 X 75	10 C	2						2			~20 grains of native copper ()250u)
		25 X 100	13 C	1						1			
		50 X 50	10 C	3		4		1		8			
		50 X 75	13 C		1	1				2			
		50 X 100	15 C				1			1			
		75 X 100	18 C	2						2			
										32	62.2	108	
446-03	Y	15 X 15	3 C					1	1	2			5% Pyrite
		15 X 25	4 C			1	1	1		3			~150 grains of native copper
		15 X 50	7 C					1		1			((=250u)
		25 X 25	5 C			1		1		2			~5 grains of native copper ()250u)
		25 X 75	10 C		1	1				2			
		75 X 100	18 C	1						1			
										11	58.0	27	
447-01	Y	10 X 10	2 C				1			1			8% Pyrite
		15 X 15	3 C		2					2			~150 grains of native copper
		15 X 25	4 C		1	1				2			((=250u)
		15 X 50	7 C			2				2			~20 grains of native copper ()250u)
		25 X 25	5 C		1					1			
		25 X 50	8 C	1	1	1				3			
		25 X 75	10 C	1						1			
		50 X 50	10 C	1						1			
		50 X 75	13 C			1				1			
		75 X 125	20 C	1						1			
										15	76.8	35	
447-02	Y	15 X 25	4 C	1	1		1			3			5% Pyrite
		25 X 25	5 C		1	1				2			~50 grains of native copper ((=250u)
		50 X 100	15 C	1						1			~10 grains of native copper ()250u)
		75 X 100	18 C			1				1			1 copper nugget 1550 X 4650 X 250 u
		75 X 125	20 C			1				1			
										8	25.4	127	

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
448-01	Y	15 X 25	4 C			2				2			10% Pyrite -
		15 X 50	7 C	1						1			~25 grains of native copper ((=250u)
		25 X 50	8 C	1	1					2			
		50 X 50	10 C			2				2			
										7	39.9	16	
448-02	Y	15 X 50	7 C				1			1			10% Pyrite
		25 X 50	8 C	1	1					2			~100 grains of native copper
		25 X 75	10 C	1						1			((=250u)
		50 X 50	10 C	1						1			~5 grains of native copper ()250u)
		50 X 75	13 C	1						1			3 copper nuggets 575 X 1025 u;
		50 X 100	15 C	1						1			825 X 1000 X 650 u;
		75 X 100	18 C	1						1			1650 X 2050 X 1350 u.
										8	53.0	50	
448-03	Y	15 X 25	4 C		2					2			10% Pyrite
		25 X 25	5 C			1				1			~75 grains of native copper ((=250u)
		25 X 50	8 C	1	1					2			~5 grains of native copper ()250u)
		25 X 75	10 C	2						2			1 copper nuggets 925 X 1800 u
		25 X 100	13 C	1						1			
		50 X 75	13 C			1				1			
		50 X 100	15 C			1				1			
		100 X 125	25 M	1						1			
										11	52.3	83	
448-04	Y	15 X 15	3 C	1						1			10% Pyrite
		15 X 50	7 C			1				1			~50 grains of native copper ((=250u)
		25 X 25	5 C			1				1			5 copper nuggets 750 X 1250 X 300;
		75 X 100	18 C	1						1			1100 X 1375 150 u; 1325 X 1750 u
		75 X 125	20 C	1						1			1250 X 4100 u; 1650 X 3100 u.
		75 X 225	29 C				1			1			
		125 X 150	27 C	1						1			
										7	35.7	318	
449-01	Y	15 X 25	4 C			1	1			2			5% Pyrite
		15 X 50	7 C			1				1			~300 grains of native copper
		25 X 25	5 C			1				1			((=250u)
		25 X 50	8 C	1		2				3			~25 grains of native copper
		25 X 75	10 C	1		1				2			()250u and (=750u)
		50 X 50	10 C					2		2			5 copper nuggets; 550 X 1250u,

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		50 X 75	13 C	1						1			625 X 1250 X 500u, 925 X 1325u,
		75 X 75	15 C	1						1			1250 X 3075u and 1400 X 2150u
		125 X 175	75 M		1					1			
										14	64.7	229	
449-02	Y	15 X 25	4 C	1						1			5% Pyrite
		15 X 50	7 C			1				1			~500 grains of native copper
		25 X 25	5 C				1			1			((=250u)
		25 X 50	8 C	2		1		1		4			~15 grains of native copper
		25 X 75	10 C	1						1			()250u and (=750u)
		50 X 50	10 C	1		1				2			4 copper nuggets; 250 X 1050u,
		50 X 100	15 C	1						1			550 X 1075u, 750 X 1675u and
		75 X 75	15 C	1						1			1000 X 2150u
		75 X 100	18 C			1				1			
		125 X 200	31 C	1						1			
										14	70.8	134	
449-03	Y	15 X 25	4 C				1			1			10% Pyrite
		25 X 50	8 C		1					1			~250 grains of native copper
		25 X 75	10 C			2				2			((=250u)
		25 X 100	13 C	1						1			~10 grains of native copper ()250u)
		50 X 50	10 C	1						1			
		50 X 75	13 C	1						1			
		50 X 125	18 C	1						1			
		75 X 100	18 C	2			1			3			
										11	60.0	91	
449-04	Y	15 X 25	4 C			1	1			2			10% Pyrite
		25 X 25	5 C			2	1			3			~1000 grains of native copper
		25 X 50	8 C	3		4				7			((=250u)
		25 X 100	13 C	1						1			~50 grains of native copper
		50 X 50	10 C	2	1	1				4			()250u and (=750u)
		50 X 75	13 C	7		1		1		9			
		50 X 100	15 C	1						1			
		50 X 125	18 C	1						1			
		75 X 75	15 C	1	1					2			
		75 X 75	50 M	1						1			
		75 X 100	18 C	2	1					3			
		75 X 125	20 C	2						2			
		75 X 125	50 M		1					1			
		125 X 150	27 C	1						1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97										38	91.0	262	
449-05	Y	15 X 15	3 C				1			1			10% Pyrite
		15 X 25	4 C		1					1			~150 grains of native copper
		25 X 25	5 C			1	1			2			((=250u)
		25 X 50	8 C	1	1	2				4			~10 grains of native copper ()250u)
		50 X 75	13 C	1						1			
		50 X 100	15 C	1						1			
		75 X 100	18 C	1						1			
		100 X 200	50 M	1						1			
										12	38.5	282	
450-01	Y	25 X 25	5 C	1	1	1				3			7% Pyrite
		50 X 50	10 C	1						1			~150 grains of native copper
		50 X 75	13 C		1					1			((=250u)
		50 X 100	15 C	1						1			~10 grains of native copper
		75 X 100	18 C	1						1			()250u and (=750u)
										7	56.3	41	1 copper nugget; 750 X 1250 X 500u
450-02	Y	10 X 10	2 C		1					1			5% Pyrite
		15 X 15	3 C		2					2			~100 grains of native copper
		25 X 100	13 C	1						1			((=250u)
		50 X 50	10 C	2		1				3			
		50 X 75	13 C	1						1			
		50 X 125	18 C	1						1			
		100 X 100	50 M	1						1			
										10	41.4	147	
450-03	N	50 X 50	10 C	1		1				2			
		50 X 75	13 C	1						1			
		100 X 100	20 C	1						1			
										4	49.9	45	
451-01	Y	25 X 50	8 C	1	1					2			5% Pyrite
		25 X 75	10 C	1						1			~100 grains of native copper
		50 X 50	10 C	2						2			((=250u)
		50 X 75	13 C	1		1				2			~5 grains of native copper ()250u)
										7	37.8	39	2 copper nuggets; 650 X 1325u and 1125 X 1450u
451-02	Y	15 X 15	3 C			1				1			5% Pyrite

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		25 X 25	5 C	1						1			~150 grains of native copper
		25 X 50	8 C	1						1			((=250u)
		25 X 75	10 C	2	1					3			~5 grains of native copper ()250u)
		50 X 75	13 C	3						3			
		75 X 125	20 C	1						1			
										10	57.2	58	
451-03	Y	15 X 25	4 C			2				2			2% Pyrite
		15 X 50	7 C				1			1			~100 grains of native copper
		25 X 50	8 C	1						1			((=250u)
		50 X 50	10 C	2						2			~5 grains of native copper ()250u)
		50 X 75	13 C	1						1			
		50 X 100	15 C	1						1			
										8	47.7	33	
451-04	Y	25 X 25	5 C			2				2			5% Pyrite
		25 X 50	8 C	1						1			~100 grains of native copper
		25 X 75	10 C			1				1			((=250u)
		50 X 50	10 C			1				1			~10 grains of native copper ()250u)
		50 X 75	13 C	1						1			2 copper nuggets; 650 X 1250u,
		100 X 150	25 C	1						1			and 800 X 1300u
		100 X 175	27 C		1					1			
										8	42.3	180	
452-01	Y	25 X 25	5 C	3		1				4			10% Pyrite
		25 X 50	8 C	2		1				3			~150 grains of native copper
		25 X 75	10 C	1		2				3			((=250u)
		50 X 50	10 C	1						1			~10 grains of native copper ()250u)
		50 X 75	13 C	1		1				2			
		150 X 250	38 C				1			1			
										14	60.8	218	
452-02	Y	25 X 25	5 C	1	1	2				4			5% Pyrite
		25 X 50	8 C	1		1				2			~250 grains of native copper
		25 X 75	10 C	1						1			((=250u)
		50 X 50	10 C	1						1			~25 grains of native copper ()250u)
		50 X 75	13 C	1						1			
		50 X 100	15 C	1						1			
		75 X 125	20 C	1						1			
		150 X 150	29 C	1						1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
TOTAL # OF PANNINGS													
RR-97										12	55.0	147	
452-03	N	25 X 75	10 C	1						1			
		50 X 50	10 C	1						1			
		75 X 100	25 M	1						1			
										3	8.4	217	
453-01	Y	15 X 15	3 C			1				1			5% Pyrite
		15 X 50	7 C					1		1			~250 grains of native copper ((=250u)
		25 X 25	5 C	1		2				3			
		25 X 100	13 C			1				1			~50 grains of native copper ()250u)
		50 X 50	10 C	1		1	1			3			3 copper nuggets; 750 X 1000u,
		50 X 75	13 C	1						1			800 X 1250u and 875 X 1150u
										10	36.4	40	
453-02	Y	15 X 50	7 C			1				1			2% Pyrite
		25 X 50	8 C	1		1				2			~150 grains of native copper ((=250u)
		50 X 50	10 C	5		3				8			
		50 X 75	13 C			1				1			~50 grains of native copper ()250u)
		75 X 75	15 C				1			1			2 copper nuggets; 500 X 2000u
										13	58.0	48	and 750 X 1150u
453-03	Y	15 X 50	7 C		1	1		1		3			5% Pyrite
		15 X 75	9 C			1				1			~150 grains of native copper ((=250u)
		25 X 25	5 C			1				1			
		25 X 50	8 C	2						2			~50 grains of native copper ()250u)
		25 X 75	10 C			1				1			4 copper nuggets; 500 X 1250u,
		50 X 50	10 C			1				1			750 X 2350u, 1025 X 1625u
		50 X 75	13 C	1						1			and 1250 X 1650u
		50 X 100	15 C	1	1					2			1 grain of silver; 200 X 275u
		50 X 125	18 C			1				1			(SEM confirmed)
		75 X 125	20 C			1				1			
		100 X 225	75 M	1						1			
										15	89.3	223	
453-04	Y	25 X 50	8 C	1	1					2			3% Pyrite
		25 X 75	10 C					1		1			~150 grains of native copper ((=250u)
		50 X 50	10 C			2				2			
		50 X 75	25 M	1						1			~25 grains of native copper ()250u)
		50 X 100	15 C			1				1			
		50 X 250	29 C				1			1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
RR-97													
		75 X 75	15 C			1				1			
										9	54.7	141	
453-05	Y	15 X 15	3 C			2	1			3			2% Pyrite
		25 X 25	5 C			1				1			~500 grains of native copper
		25 X 50	8 C			1				1			((=250u)
		25 X 75	10 C	1						1			~100 grains of native copper
		50 X 50	10 C	1						1			()250u)
		100 X 150	25 C	1						1			2 copper nuggets; 1000 X 1800u and 1350 X 7600u
										8	32.6	104	
454-01	Y	15 X 15	3 C				1			1			7% Pyrite
		15 X 50	7 C			1				1			~150 grains of native copper
		25 X 25	5 C		2					2			((=250u)
		25 X 75	10 C	2						2			~50 grains of native copper ()250u)
		50 X 125	18 C	1						1			~20 grains of native copper
		75 X 125	20 C	1						1			()1000u)
										8	29.8	101	

APPENDIX III

ACTLABS BEDROCK ANALYSES

Rainy River Project
Work Report
1997 Reverse Circulation Drill Data
Paul Jones, Project Geologist
August, 1997

SAMPLE #	SiO2 %	Al2O3 %	Fe2O3 %	MnO %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	LOI %	TOTAL %	Ba PPM	Sr PPM	Y PPM	Sc PPM	Zr PPM	Be PPM	V PPM
RR-97-321-04	42.83	12.77	24.43	0.38	3.40	4.44	0.38	0.31	1.87	0.18	7.98	98.97	5924	58	40	40	84	1	364
RR-97-322-03	45.43	11.14	15.39	0.25	3.78	9.65	2.00	0.19	2.20	0.24	9.58	99.85	132	136	35	41	104	1	351
RR-97-323-05	45.49	13.82	13.70	0.21	4.30	7.38	2.21	1.04	1.66	0.18	10.16	100.15	153	113	28	33	82	1	259
RR-97-324-06	64.93	13.38	3.44	0.07	1.65	4.59	3.68	1.30	0.31	0.11	7.03	100.49	5876	385	5	5	79	< 1	40
RR-97-325-11	52.25	11.94	12.36	0.32	3.20	6.35	0.84	0.80	1.91	0.17	10.18	100.33	561	241	32	34	106	1	297
RR-97-326-02	46.06	12.62	17.80	0.23	5.86	10.06	2.10	0.09	2.33	0.11	3.25	100.51	8682	184	24	59	60	2	733
RR-97-327-03	50.98	12.74	12.70	0.22	5.12	7.61	1.87	0.25	1.74	0.21	7.23	100.67	90	142	39	37	117	1	250
RR-97-328-04	68.64	15.50	3.08	0.04	0.98	3.92	4.86	0.94	0.33	0.09	2.41	100.79	13157	480	5	5	85	< 1	40
RR-97-329-04	69.46	15.72	4.83	0.08	0.92	1.62	2.19	1.87	0.43	0.09	2.93	100.14	412	192	8	9	83	< 1	67
RR-97-330-05	67.09	15.35	3.51	0.10	1.15	2.68	2.15	2.26	0.38	0.13	5.34	100.13	623	480	5	6	78	< 1	50
RR-97-331-03	74.07	14.28	3.87	<0.01	0.25	0.44	1.92	1.27	0.38	0.02	2.20	98.71	401	356	4	6	113	< 1	45
RR-97-332-02	71.40	15.27	2.92	0.02	0.50	0.69	4.64	1.55	0.34	0.14	1.38	98.87	426	413	5	6	80	< 1	46
RR-97-333-05	72.89	15.19	2.94	<0.01	0.94	0.34	4.17	1.98	0.35	0.15	1.66	100.62	531	371	5	5	84	< 1	41
RR-97-334-02	45.26	13.04	15.68	0.21	5.05	8.74	2.02	0.53	1.69	0.20	7.45	99.86	75	101	27	34	81	< 1	302
RR-97-335-04	66.52	13.25	3.48	0.10	1.79	4.25	3.37	1.28	0.30	0.08	6.06	100.49	376	498	5	6	86	< 1	42
RR-97-336-05	70.81	14.95	3.76	0.04	1.53	1.48	3.83	1.67	0.43	0.27	1.85	100.61	413	338	7	8	89	< 1	62
RR-97-337-04	46.56	12.74	14.36	0.25	4.58	9.17	2.60	0.05	1.66	0.22	8.36	100.55	46	78	31	34	93	< 1	251
RR-97-338-08	44.93	13.82	13.47	0.18	2.85	7.92	2.27	0.46	1.52	0.17	12.22	99.80	469	154	26	31	78	< 1	249

Activation Laboratories Ltd. Work Order: 12587 Report: 12446C

SAMPLE #	SiO2 %	Al2O3 %	Fe2O3 %	MnO %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	LOI %	TOTAL %	Ba PPM	Sr PPM	Y PPM	Sc PPM	Zr PPM	Be PPM	V PPM
RR-97-339-10	70.68	16.31	2.45	0.17	0.46	0.59	0.49	2.12	0.29	0.13	6.05	99.76	871	138	10	5	152	< 1	40
RR-97-340-08	64.99	18.85	6.04	0.07	0.34	0.62	2.46	1.38	0.72	0.08	4.22	99.76	211	375	12	14	92	< 1	157
RR-97-341-02	44.73	12.69	11.83	0.30	4.61	8.92	1.42	0.52	0.68	0.08	13.84	99.62	98	210	17	38	51	< 1	224
RR-97-342-05	67.88	15.07	4.17	0.04	1.39	1.50	3.65	1.65	0.42	0.35	2.87	99.00	394	459	7	9	76	< 1	66
RR-97-343-07	70.40	14.96	3.02	0.02	1.02	0.69	5.79	0.92	0.30	0.11	1.59	98.82	317	248	4	5	81	< 1	39
RR-97-344-02	46.72	13.01	11.37	0.32	5.51	10.93	1.65	0.04	0.55	0.06	9.47	99.63	9	111	16	37	42	< 1	188
RR-97-345A-03	48.72	13.85	17.43	0.38	7.69	2.73	0.47	0.12	0.60	0.07	7.39	99.45	34	74	17	39	48	< 1	192
RR-97-346-02	73.08	12.38	5.96	0.12	0.32	2.09	0.60	0.69	0.33	0.15	3.43	99.15	529	187	8	7	91	< 1	51
RR-97-347-02	71.20	16.29	3.18	0.02	0.32	0.42	1.78	2.55	0.44	0.09	3.10	99.39	434	450	4	4	84	< 1	39
RR-97-348-02	43.93	12.25	16.52	0.21	3.50	8.31	3.54	0.04	1.86	0.20	8.50	98.87	7	111	29	37	86	< 1	326
RR-97-349-02	51.30	13.87	18.83	0.25	3.34	1.48	1.92	0.96	2.13	0.25	4.31	98.66	288	25	32	42	100	1	365
RR-97-350-02	47.18	13.78	16.52	0.22	5.76	8.21	2.45	0.23	1.52	0.16	3.42	99.46	43	143	29	39	84	< 1	290
RR-97-351-01	45.63	13.12	15.41	0.19	5.45	7.76	1.99	0.17	1.49	0.16	7.56	98.93	35	121	30	35	90	< 1	274
RR-97-352-02	45.75	12.55	16.39	0.19	5.96	7.09	2.07	0.04	1.92	0.22	7.56	99.73	7	91	30	38	89	< 1	338
RR-97-353-07	53.39	12.76	7.01	0.11	3.25	7.21	1.92	2.24	0.58	0.14	10.34	98.94	209	230	12	14	94	< 1	98
RR-97-354-02	46.20	13.72	11.62	0.19	4.70	10.21	3.32	0.04	1.07	0.10	9.14	100.30	35	177	23	38	60	< 1	263
RR-97-355-02	48.28	12.80	13.73	0.27	1.76	7.87	2.50	0.40	1.83	0.21	10.23	99.88	152	123	32	38	93	< 1	308
RR-97-356-02	61.12	9.14	5.02	0.12	4.39	7.09	1.01	0.64	0.26	0.09	10.69	99.58	732	161	6	8	52	< 1	48
RR-97-357-02	64.54	12.84	3.57	0.06	1.63	5.65	1.56	1.46	0.37	0.11	7.89	99.66	274	231	6	6	69	< 1	39
RR-97-358-03	68.02	13.57	2.86	0.03	0.87	4.63	3.43	1.45	0.33	0.27	5.10	100.56	369	390	5	5	60	< 1	37
RR-97-359-05	57.39	13.00	5.30	0.09	2.11	6.40	3.00	1.73	0.37	0.09	9.30	98.77	251	256	7	10	68	< 1	68
RR-97-360-08	65.67	13.74	3.32	0.04	1.02	4.58	4.66	0.89	0.33	0.12	5.77	100.14	321	501	6	6	80	< 1	45
RR-97-361-12	77.18	12.05	3.02	0.01	0.61	0.31	2.97	1.73	0.32	0.08	1.96	100.25	290	225	4	5	75	< 1	37

Activation Laboratories Ltd. Work Order: 12637 Report: 12500C

SAMPLE #	SiO2 %	Al2O3 %	Fe2O3 %	MnO %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	LOI %	TOTAL %	Ba PPM	Sr PPM	Y PPM	Sc PPM	Zr PPM	Be PPM	V PPM
RR-97-362-12	72.72	14.41	3.05	0.04	0.97	1.01	4.23	1.73	0.33	0.11	1.56	100.16	353	338	5	6	82	< 1	52
RR-97-363-07	71.39	14.28	3.64	0.02	0.78	0.52	4.26	1.65	0.39	0.17	1.66	98.75	320	237	5	8	93	< 1	62
RR-97-364-07	49.08	14.09	14.26	0.19	5.78	8.68	2.02	0.25	1.12	0.08	3.10	98.64	28	156	26	40	64	< 1	301
RR-97-365-09	49.54	13.31	10.67	0.21	5.16	9.92	2.24	0.46	0.61	0.06	7.01	99.18	88	96	15	34	46	< 1	201
RR-97-366-06	66.85	11.17	5.93	0.09	4.86	5.14	2.69	0.66	0.47	0.23	1.72	99.82	157	255	9	15	66	< 1	127
RR-97-367-02	45.62	15.01	13.99	0.19	8.77	8.29	2.78	0.10	1.05	0.08	3.40	99.28	30	115	21	38	54	< 1	259
RR-97-368-02	56.85	11.87	10.88	0.09	3.27	4.76	3.62	0.19	0.99	0.21	6.18	98.90	71	103	18	27	56	< 1	224
RR-97-369-11	52.74	12.39	22.49	0.49	0.52	0.58	0.09	0.13	0.57	0.05	8.65	98.70	320	23	14	41	46	1	223
RR-97-370-03	51.45	15.80	10.94	0.37	5.57	7.05	2.42	0.38	0.67	0.07	4.28	99.01	91	124	18	40	57	< 1	228
RR-97-371-02	58.49	16.75	8.30	0.21	1.53	2.27	0.66	1.66	1.03	0.19	8.23	99.31	514	93	13	26	96	2	200
RR-97-372-02	47.14	15.07	12.77	0.19	7.16	10.47	1.93	0.33	0.88	0.10	2.82	98.86	76	238	18	38	52	< 1	246
RR-97-373-04	57.08	16.32	7.97	0.13	2.36	5.40	2.71	2.07	0.67	0.30	3.79	98.82	684	774	19	17	101	1	151
RR-97-374-05	38.29	10.52	22.20	0.58	4.67	9.43	0.84	0.14	0.80	0.07	11.32	98.87	111	91	22	29	46	< 1	234
RR-97-375-02	46.47	13.64	9.23	0.25	3.67	11.58	2.17	0.73	0.50	0.05	11.73	100.02	226	155	14	35	37	< 1	186
RR-97-376-15	58.59	15.70	6.75	0.10	7.12	2.71	3.23	2.31	0.52	0.16	3.58	100.78	418	383	10	19	74	1	137
RR-97-377-02	54.72	15.81	8.25	0.14	5.06	8.44	2.54	1.30	0.63	0.20	2.55	99.64	300	919	15	25	77	1	188
RR-97-378-02	63.73	15.66	4.57	0.06	4.02	2.31	5.50	1.01	0.43	0.15	2.24	99.70	285	599	8	11	93	1	85

Activation Laboratories Ltd. Work Order: 12699 Report: 12545B

SAMPLE #	SiO2 %	Al2O3 %	Fe2O3 %	MnO %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	LOI %	TOTAL %	Ba PPM	Sr PPM	Y PPM	Sc PPM	Zr PPM	Be PPM	V PPM
RR-97 379-06	64.73	13.13	5.36	0.07	4.36	2.66	2.17	3.47	0.47	0.41	2.40	99.22	804	639	8	13	87	1	104
RR-97 380-07	60.00	14.51	9.04	0.11	4.08	3.00	2.54	2.11	0.55	0.22	2.50	98.66	338	455	10	16	111	1	128
RR-97 381-03	63.45	14.91	6.93	0.05	3.91	0.71	3.32	1.78	0.55	0.29	3.05	98.93	382	590	12	16	98	2	134
RR-97 383-03	60.80	16.02	5.54	0.11	2.27	5.22	4.53	2.39	0.45	0.23	1.05	98.61	1114	923	13	10	112	1	96
RR-97 384-06	48.71	15.78	12.38	0.23	3.65	10.51	4.26	0.34	1.29	0.09	1.93	99.17	130	271	19	29	51	1	213
RR-97 385-13	60.66	17.06	4.64	0.10	3.18	1.99	9.08	0.22	0.44	0.15	1.33	98.84	22	93	8	10	109	< 1	79
RR-97 386-15	45.00	13.50	18.86	0.32	5.99	4.54	1.96	0.42	0.66	0.06	7.71	99.01	140	123	16	37	41	1	226
RR-97 387-09	65.47	14.72	5.18	0.07	2.36	3.21	3.77	1.41	0.44	0.17	2.88	99.70	394	375	8	13	83	< 1	94
RR-97 389-06	59.29	20.03	7.43	0.32	0.78	0.57	0.21	1.55	0.55	0.06	8.22	99.01	550	35	3	15	107	1	96
RR-97 390-12	62.34	16.14	5.79	0.08	3.67	2.77	3.92	1.27	0.51	0.14	2.84	99.46	332	566	9	15	98	< 1	109
RR-97 391-06	63.06	14.73	6.78	0.08	4.23	2.31	3.99	0.56	0.50	0.15	4.04	100.43	230	480	10	17	83	< 1	109
RR-97 392-02	70.19	14.13	2.46	0.03	0.96	2.86	4.66	1.95	0.31	0.12	2.04	99.70	512	447	6	5	109	< 1	36
RR-97 393-05	69.21	17.22	2.03	0.02	0.75	0.86	7.02	1.32	0.25	0.06	1.44	100.17	634	1191	6	5	72	1	41
RR-97 395-01	68.11	15.87	2.56	0.05	0.93	2.47	6.18	1.10	0.23	0.11	1.69	99.31	479	660	5	5	66	< 1	40
RR-97 382-05	61.84	16.56	5.04	0.06	4.85	2.42	5.47	0.71	0.47	0.10	2.54	100.06	168	387	8	13	83	< 1	98
RR-97 392-OTC	60.89	18.05	3.47	0.05	1.59	5.29	5.53	2.28	0.35	0.13	2.24	99.86	652	1323	6	7	87	< 1	64

Activation Laboratories Ltd. Work Order: 12708 Report: 12587C

SAMPLE #	SiO2 %	Al2O3 %	Fe2O3 %	MnO %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	LOI %	TOTAL %	Ba ppm	Sr ppm	Y ppm	Sc ppm	Zr ppm	Be ppm	V ppm
RR-97-388-6	62.43	14.48	6.15	0.09	5.03	0.88	4.50	0.85	0.42	0.11	4.91	99.85	190	146	7	15	74	< 1	80
RR-97-394-04	53.89	15.50	11.64	0.12	3.61	4.49	0.67	1.99	0.78	0.33	5.91	98.95	261	769	21	31	87	1	232
RR-97-396-03	66.52	16.37	3.16	0.04	1.29	1.17	3.33	2.10	0.36	0.10	4.38	98.83	737	305	8	8	89	1	57

Activation Laboratories Ltd. Work Order No.12734 Report No.12628B

SAMPLE	SiO2	Al2O3	Fe2O3	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	TOTAL	Ba	Sr	Y	Sc	Zr	Be	V
	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RR-97 397-04	71.89	16.77	4.18	0.02	0.12	0.53	1.16	2.25	0.43	0.04	3.24	100.62	618	373	6	7	94	1	61
RR-97 398-06	74.09	15.13	2.94	0.03	0.76	1.13	0.97	2.93	0.43	0.19	2.29	100.89	787	217	8	8	96	1	68
RR-97 399-04	67.66	14.05	3.28	0.06	1.95	3.16	0.83	2.62	0.34	0.16	6.08	100.19	905	219	7	6	103	1	54
RR-97 400-02	74.29	14.80	3.63	0.04	0.15	0.38	1.52	2.18	0.35	0.12	2.82	100.30	584	180	8	7	99	1	51
RR-97 401-07	75.18	14.97	2.74	0.01	0.12	1.90	0.54	0.77	0.35	0.07	2.90	99.56	714	223	4	5	86	1	44
RR-97 402-07	47.33	14.05	12.96	0.19	4.03	12.25	2.38	0.15	1.07	0.08	6.32	100.81	65	132	24	38	61	-1	291
RR-97 403-04	51.30	14.28	10.47	0.16	8.61	8.26	3.99	0.19	0.58	0.06	3.07	100.97	53	69	14	34	44	-1	189
RR-97 404-06	49.70	14.70	10.43	0.17	7.78	10.10	2.68	0.32	0.56	0.06	4.23	100.73	93	129	14	33	50	-1	191
RR-97 404-07	54.39	12.97	7.59	0.14	4.76	13.23	0.60	0.52	0.46	0.05	5.44	100.15	308	141	12	27	41	-1	156
RR-97 405-02	44.98	14.24	13.90	0.21	6.13	10.50	2.69	0.21	1.03	0.09	7.02	100.99	36	94	22	36	58	-1	291
RR-97 406-02	48.53	15.68	12.55	0.18	6.65	7.35	2.28	0.15	0.91	0.08	5.25	99.61	28	96	18	38	52	-1	252

Adrienne I. Rittau, B.Sc.,C.Chem
ICP Technical Manager

Negative values indicate less than the detection limit

Activation Laboratories Ltd. Work Order No. 12839 Report No.12637B

SAMPLE	SiO2	Al2O3	Fe2O3	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	TOTAL	Ba	Sr	Y	Sc	Zr	Be	V
	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RR-97-407-04	47.41	14.12	13.77	0.26	3.18	9.32	1.86	0.42	1.07	0.07	7.64	99.12	175	131	24	39	59	-1	305
RR-97-408-08	73.27	15.93	1.78	0.02	1.32	2.14	0.32	0.53	0.47	0.10	2.73	98.60	399	265	7	6	95	-1	69
RR-97-409-03	46.85	15.53	13.68	0.19	7.51	8.09	2.31	0.13	0.99	0.09	3.41	98.77	156	114	21	35	55	-1	256
RR-97-410-13	49.34	20.05	16.69	0.96	0.20	0.31	0.05	0.02	1.19	0.07	9.69	98.58	124	31	9	51	70	2	302
RR-97-410-14	69.98	9.17	9.00	2.48	0.19	0.86	0.03	0.01	0.56	0.04	6.36	98.68	48	15	4	25	21	-1	171
RR-97-411-14	45.84	14.83	12.76	0.22	7.68	9.49	2.67	0.38	0.89	0.06	3.91	98.72	104	169	18	37	44	-1	256
RR-97-412-10	49.64	15.16	14.90	0.20	4.89	5.89	1.81	0.34	1.17	0.10	4.40	98.51	83	142	26	42	69	1	319
RR-97-413-02	46.39	12.48	7.73	0.24	4.06	9.76	1.61	0.66	0.51	0.05	15.04	98.53	143	179	15	32	39	-1	177
RR-97-414-12	36.73	12.52	30.01	1.74	4.80	1.29	0.18	0.13	0.55	0.10	10.82	98.86	46	29	22	40	44	-1	226
RR-97-415-06	49.60	13.32	12.80	0.24	3.42	6.95	2.46	0.16	1.03	0.08	8.46	98.51	88	117	23	35	59	-1	264
RR-97-416-10	69.14	14.80	5.22	0.04	1.65	0.47	1.14	1.85	0.33	0.08	3.95	98.68	240	191	8	8	99	-1	53
RR-97-417-04	46.38	16.11	14.57	0.50	2.33	5.47	1.18	1.05	1.83	0.18	9.19	98.79	200	546	32	40	106	2	367
RR-97-418-07	60.98	16.43	11.90	0.16	0.17	0.56	0.16	0.35	1.60	0.09	7.46	99.86	223	268	25	32	99	1	257

Adrienne I. Rittau, B.Sc.,C.Chem
ICP Technical Manager

Negative values indicate less than the detection limit

Activation Laboratories Ltd. Work Order No.12863 Report No. 12756B

SAMPLE	SiO2	Al2O3	Fe2O3	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	TOTAL	Ba	Sr	Y	Sc	Zr	Be	V
	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RR-97 419-04	72.33	15.44	2.94	0.03	0.61	1.00	1.79	2.37	0.38	0.09	2.07	99.03	461	424	-1	7	77	1	80
RR-97 420-05	75.90	14.44	1.98	0.24	0.27	0.95	1.10	1.45	0.33	0.14	2.30	99.09	763	333	-1	5	78	1	78
RR-97 421-08	82.79	11.63	0.60	0.01	0.08	0.11	1.07	1.78	0.28	0.03	1.46	99.84	439	286	-1	4	70	-1	62
RR-97 421-09	97.09	0.67	0.59	-0.01	-0.01	0.03	0.06	0.10	0.02	0.02	0.02	98.60	26	18	-1	-1	12	-1	25
RR-97 422-02	50.46	13.14	22.12	0.45	2.38	0.74	0.89	0.69	1.57	0.26	6.36	99.05	193	193	12	35	80	2	297
RR-97 423-09	72.26	16.69	2.97	0.65	0.08	1.23	0.38	0.84	0.41	0.16	3.29	98.94	1267	437	-1	7	88	1	70
RR-97 425-04	60.23	13.34	4.36	0.11	3.03	5.83	1.79	1.43	0.34	0.10	8.88	99.44	284	361	-1	7	109	-1	74
RR-97 426-02	63.44	13.86	3.99	0.09	2.10	5.06	2.13	1.41	0.31	0.10	8.04	100.52	335	477	-1	5	67	-1	57
RR-97 427-02	72.44	15.03	3.42	0.22	0.56	0.85	0.90	2.51	0.31	0.04	3.23	99.51	527	186	-1	5	86	-1	39
RR-97 428-02	71.81	16.78	3.89	-0.01	0.17	1.04	0.64	2.11	0.38	0.07	3.18	100.08	1159	319	-1	8	84	1	95
RR-97 429-02	74.28	14.70	3.13	0.02	0.40	0.48	0.77	2.98	0.36	0.03	2.91	100.05	515	100	-1	7	76	-1	53
RR-97 431-03	66.46	15.42	3.52	0.10	1.52	4.18	3.20	1.66	0.37	0.10	4.12	100.65	409	340	-1	5	85	-1	49
RR-97 432-06	73.90	15.68	2.35	0.03	1.06	1.32	1.69	1.91	0.31	0.08	2.46	100.78	377	326	-1	4	88	-1	39
RR-97 433A-02	70.71	15.32	4.47	0.03	1.39	0.60	0.56	3.79	0.39	0.01	3.65	100.91	669	136	-1	6	78	-1	54
RR-97 434-04	72.58	16.14	2.50	0.04	0.87	2.07	1.37	2.61	0.33	0.08	2.22	100.82	463	346	-1	5	102	-1	38
RR-97 435-02	68.95	17.59	3.42	0.05	0.99	1.28	2.32	3.02	0.38	0.07	2.81	100.88	344	281	-1	5	91	-1	45
RR-97 436-06	71.75	16.58	3.42	0.06	1.34	1.93	0.47	0.99	0.40	0.10	3.07	100.13	295	165	-1	7	96	-1	59
RR-97 436-07	73.04	15.21	4.71	0.08	1.13	1.78	0.40	1.04	0.38	0.10	2.69	100.56	308	154	-1	8	102	-1	61
RR-97 437-02	80.55	13.00	2.78	0.08	0.27	0.24	0.59	0.72	0.28	0.11	1.63	100.25	434	129	-1	3	85	-1	32
RR-97 437-03	68.33	16.30	5.80	0.17	1.58	0.72	0.80	2.51	0.32	0.23	3.32	100.07	1834	392	-1	5	156	1	46
RR-97 438-04	77.68	16.85	0.28	-0.01	0.04	0.28	1.29	1.20	0.41	0.16	1.70	99.90	305	192	-1	4	104	-1	45
RR-97 424-04	75.01	13.50	2.81	0.06	0.49	0.77	4.13	1.28	0.31	0.03	1.69	100.09	375	308	-1	6	69	-1	47
RR-97 430-03	72.52	11.97	6.50	0.04	2.09	0.43	0.70	1.16	0.64	-0.01	3.65	99.69	486	199	-1	6	106	-1	66

Adrienne I. Rittau, B.Sc., C.Chem
ICP Technical Manager

Negative values indicate less than the detection limit

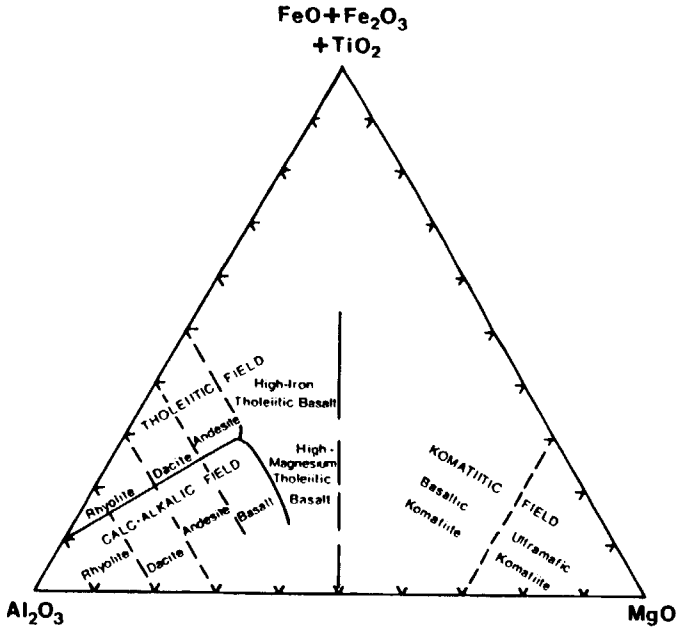
Activation Laboratories Ltd. Work Order No. 12909 Report No. 12796B

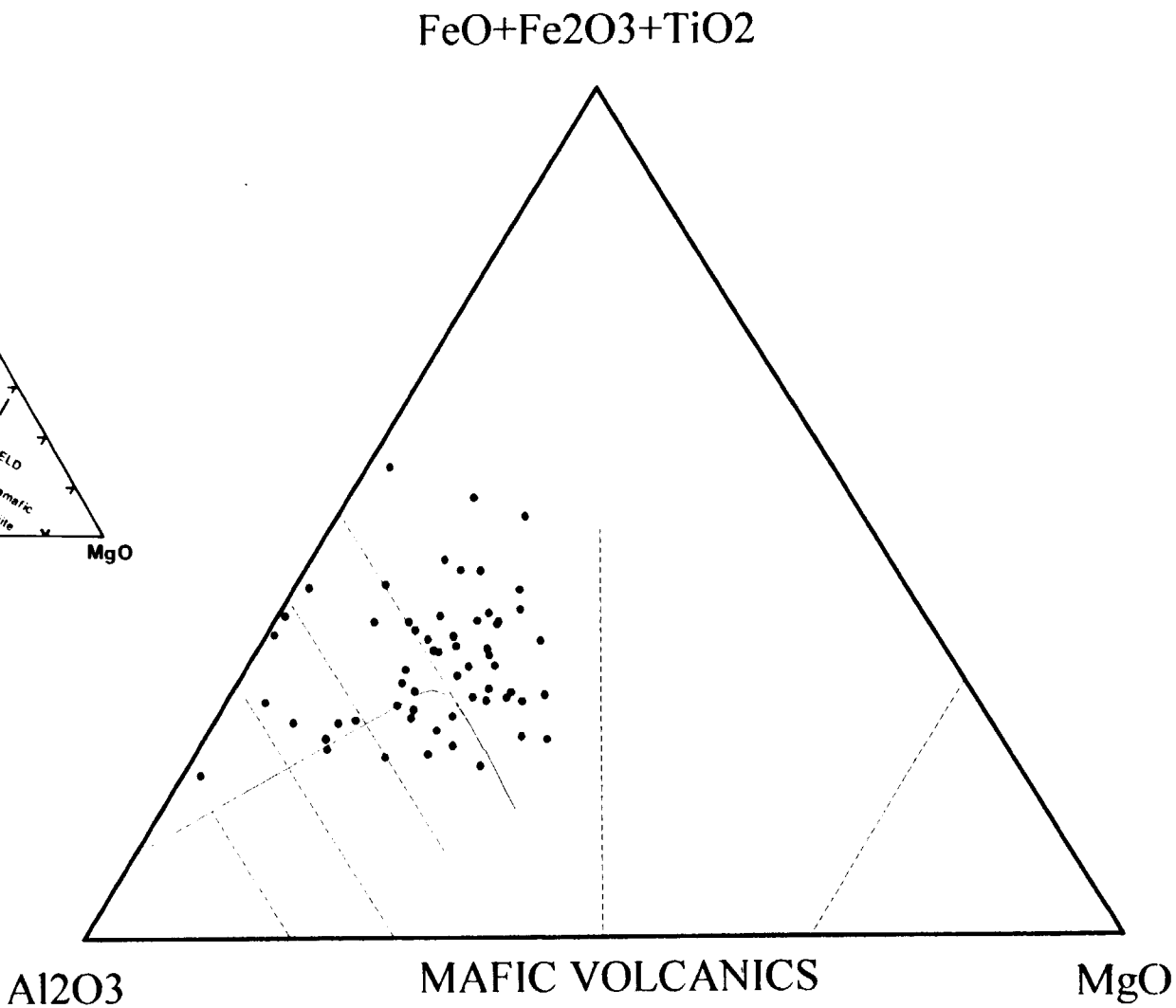
SAMPLE	SiO2	Al2O3	Fe2O3	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	TOTAL	Ba	Sr	Y	Sc	Zr	Be	V
	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RR-97 439-06	58.65	17.79	6.95	0.10	3.29	4.60	4.15	1.88	0.51	0.25	1.90	100.07	857	913	13	17	188	1	101
RR-97 440-01	47.43	16.59	12.02	0.18	4.34	13.26	2.58	1.10	1.04	0.30	1.50	100.33	755	1193	17	32	27	1	304
RR-97 440-02	53.55	15.72	10.29	0.16	5.52	7.65	3.23	2.07	0.81	0.38	1.18	100.54	818	750	22	30	101	2	194
RR-97 440-03	46.37	10.67	17.25	0.28	9.66	9.83	1.42	2.05	1.35	0.67	1.08	100.64	537	216	40	53	200	2	331
RR-97 442-02	47.94	19.08	9.77	0.15	5.09	9.32	3.59	1.67	0.90	0.63	2.48	100.61	666	1322	21	27	44	1	182
RR-97 443-08	57.11	20.99	4.97	0.08	2.26	5.99	4.95	2.17	0.38	0.20	1.87	100.96	898	1211	11	14	127	1	76
RR-97 444-04	57.35	15.72	8.88	0.24	2.79	4.41	0.22	2.09	0.76	1.12	7.06	100.63	337	311	25	30	91	1	162
RR-97 445-02	55.77	16.98	7.99	0.23	4.14	6.06	2.70	2.49	0.79	0.25	3.55	100.95	808	661	19	34	70	1	249
RR-97 446-04	63.43	15.79	7.08	0.09	2.41	2.59	1.92	2.42	0.83	0.25	3.98	100.79	463	241	15	22	105	1	123
RR-97 447-03	68.69	14.71	3.34	0.06	1.14	4.08	3.93	2.30	0.42	0.15	2.07	100.88	400	521	7	8	163	-1	64
RR-97 448-05	71.51	14.95	2.87	0.03	1.92	1.99	2.54	2.44	0.32	0.13	2.14	100.83	457	366	6	6	146	-1	44
RR-97 449-07	68.02	12.76	6.98	0.08	1.95	4.45	1.49	1.41	0.56	0.24	2.88	100.81	360	638	15	20	388	-1	166
RR-97 450-04	55.65	20.88	11.38	0.08	0.93	1.21	0.60	1.03	0.89	0.12	7.80	100.56	433	120	10	36	125	1	243
RR-97 451-05	70.14	13.87	2.82	0.03	1.31	2.99	2.42	2.72	0.25	0.17	1.62	98.33	458	633	5	4	87	-1	25
RR-97 452-04	70.17	14.98	2.44	0.01	1.08	0.72	3.99	2.73	0.32	0.13	1.91	98.47	469	297	4	6	80	-1	42
RR-97 453-06	51.60	17.31	11.34	0.16	4.11	5.73	2.06	2.43	0.96	0.47	4.61	100.78	730	819	25	38	86	2	292
RR-97 454-03	54.38	16.77	10.57	0.12	4.51	5.71	3.46	0.92	0.81	0.34	3.12	100.69	166	955	18	31	87	1	246

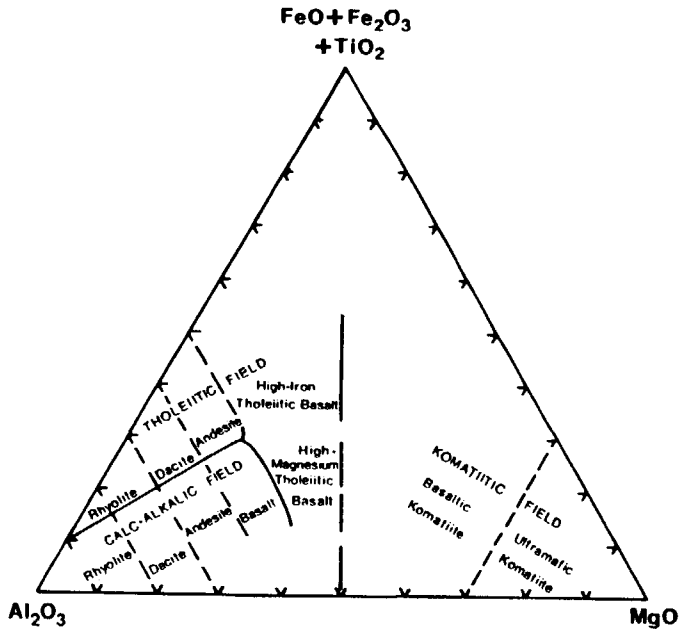
Adrienne I. Rittau, B.Sc., C.Chem
ICP Technical Manager

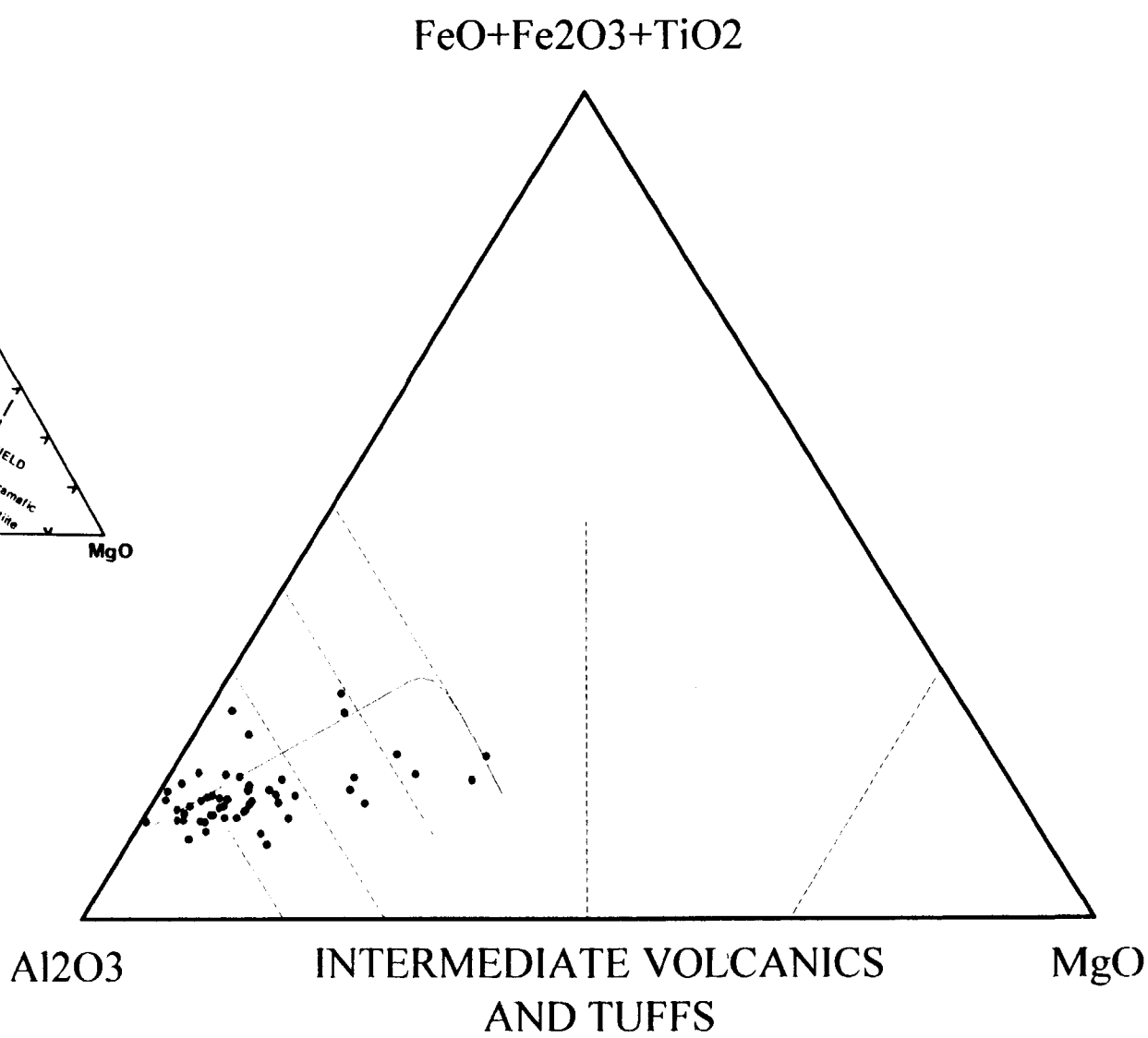
Negative values indicate less than the detection limit

4/20/97

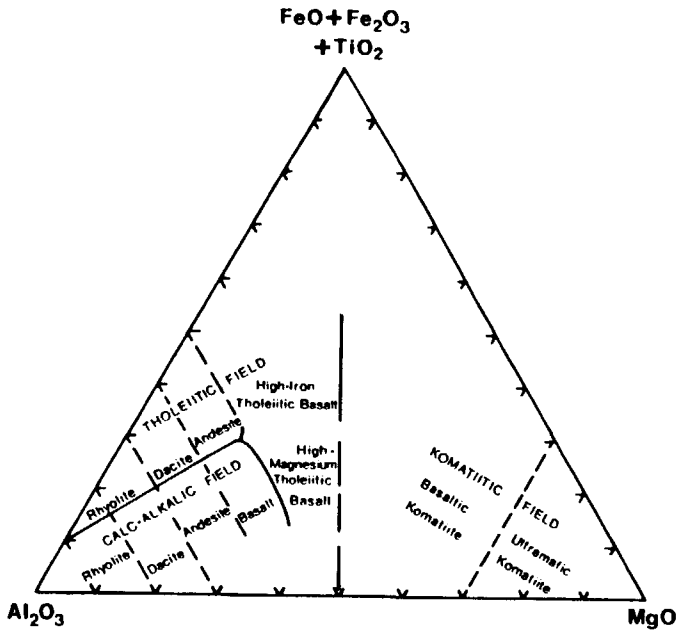

FeO+Fe2O3
+TiO2
THOLEIITIC FIELD
High-Iron Tholeiitic Basalt
Andesite
Dacite
Rhyolite
High-Magnesium Tholeiitic Basalt
CALC-ALKALIC FIELD
Andesite
Basalt
Rhyolite
Dacite
KOMATIITIC FIELD
Basaltic Komatiite
Ultramafic Komatiite
Al2O3
MgO

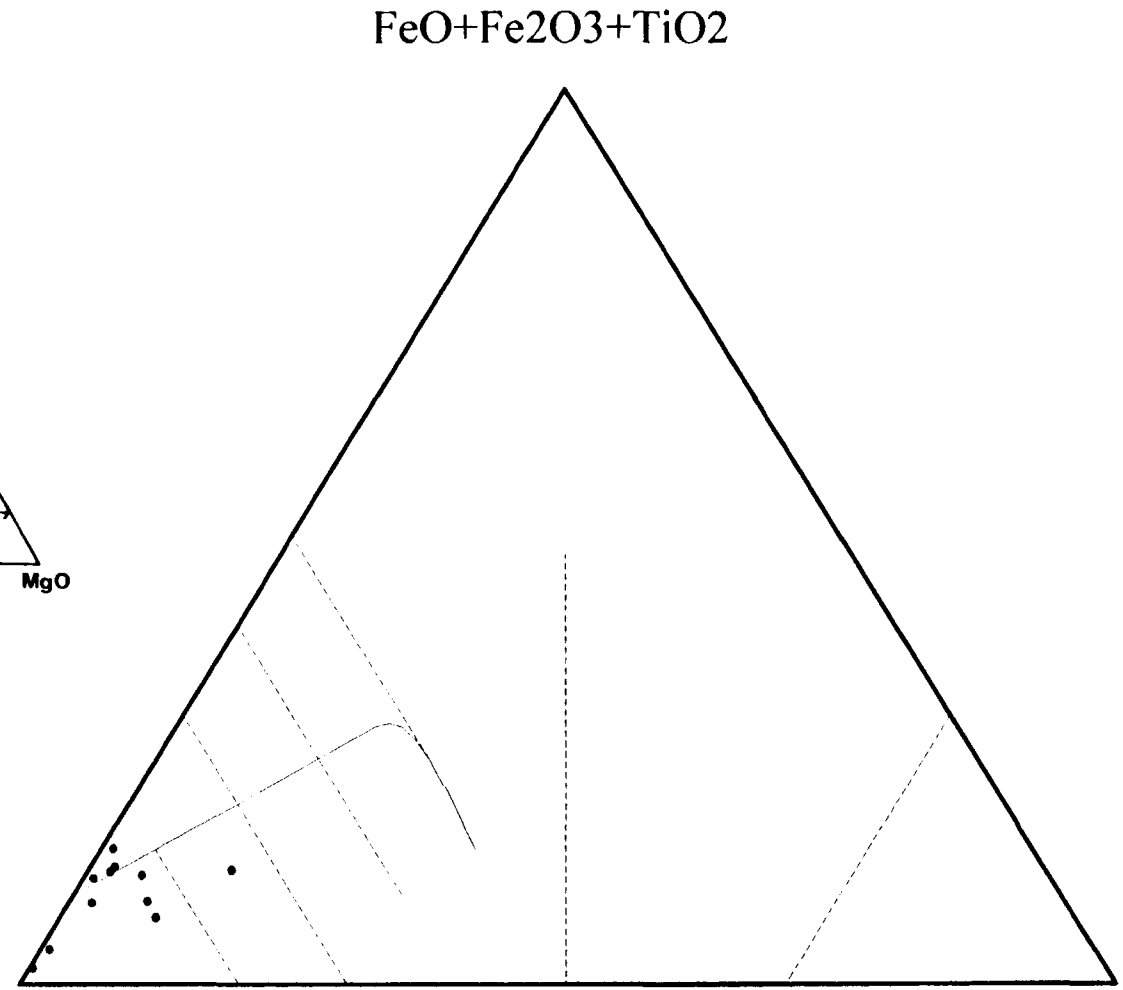

FeO+Fe2O3+TiO2
Al2O3
MAFIC VOLCANICS
MgO



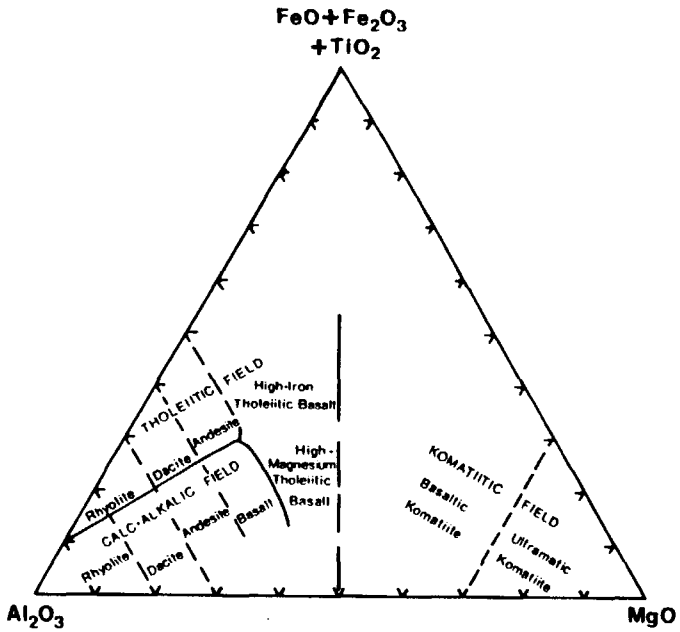


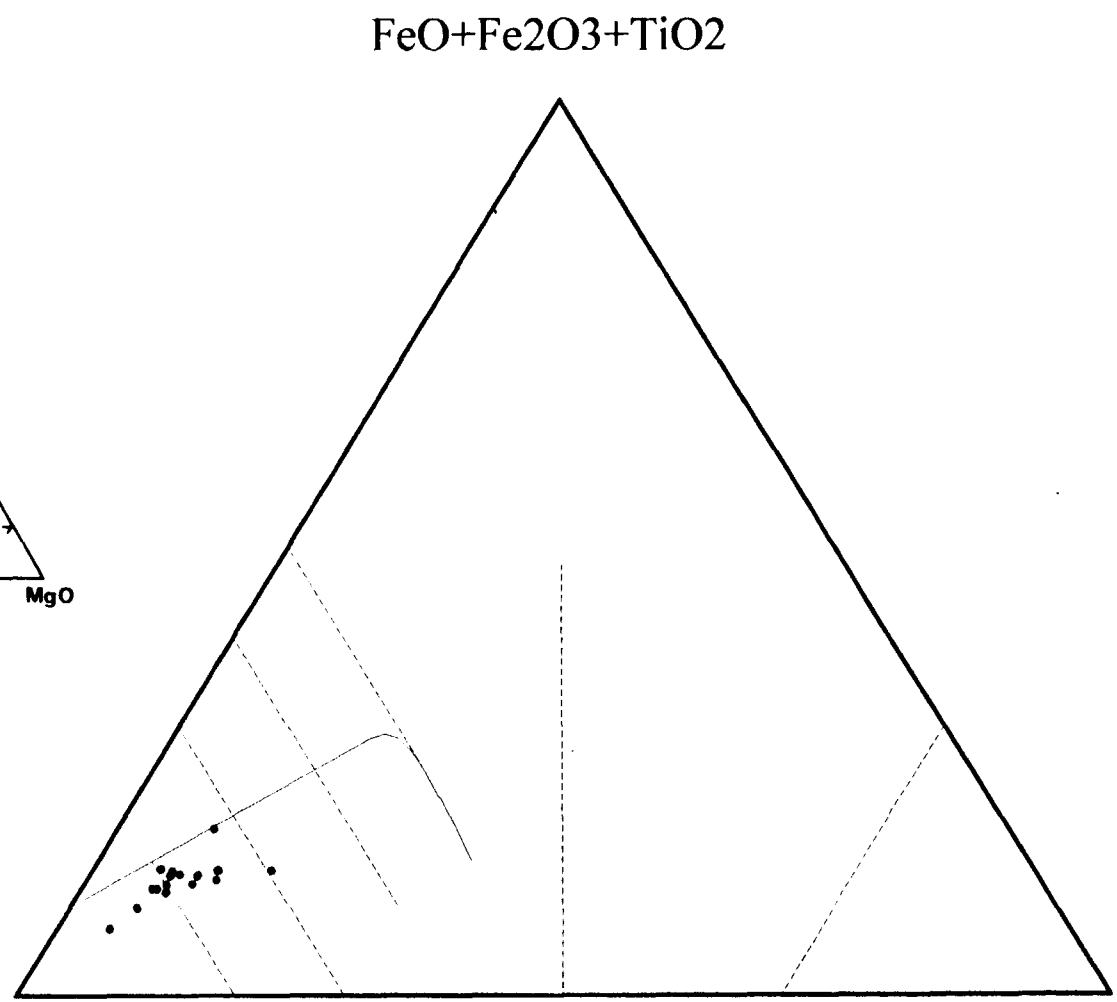
INTERMEDIATE VOLCANICS AND TUFFS



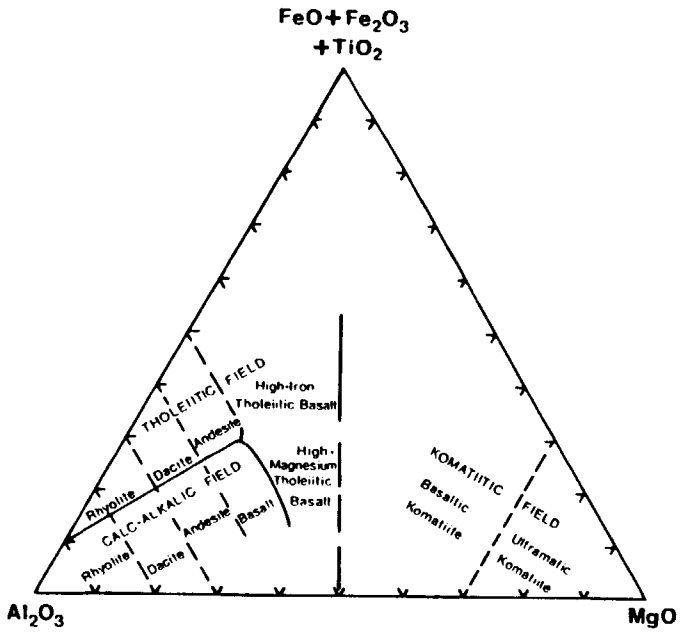


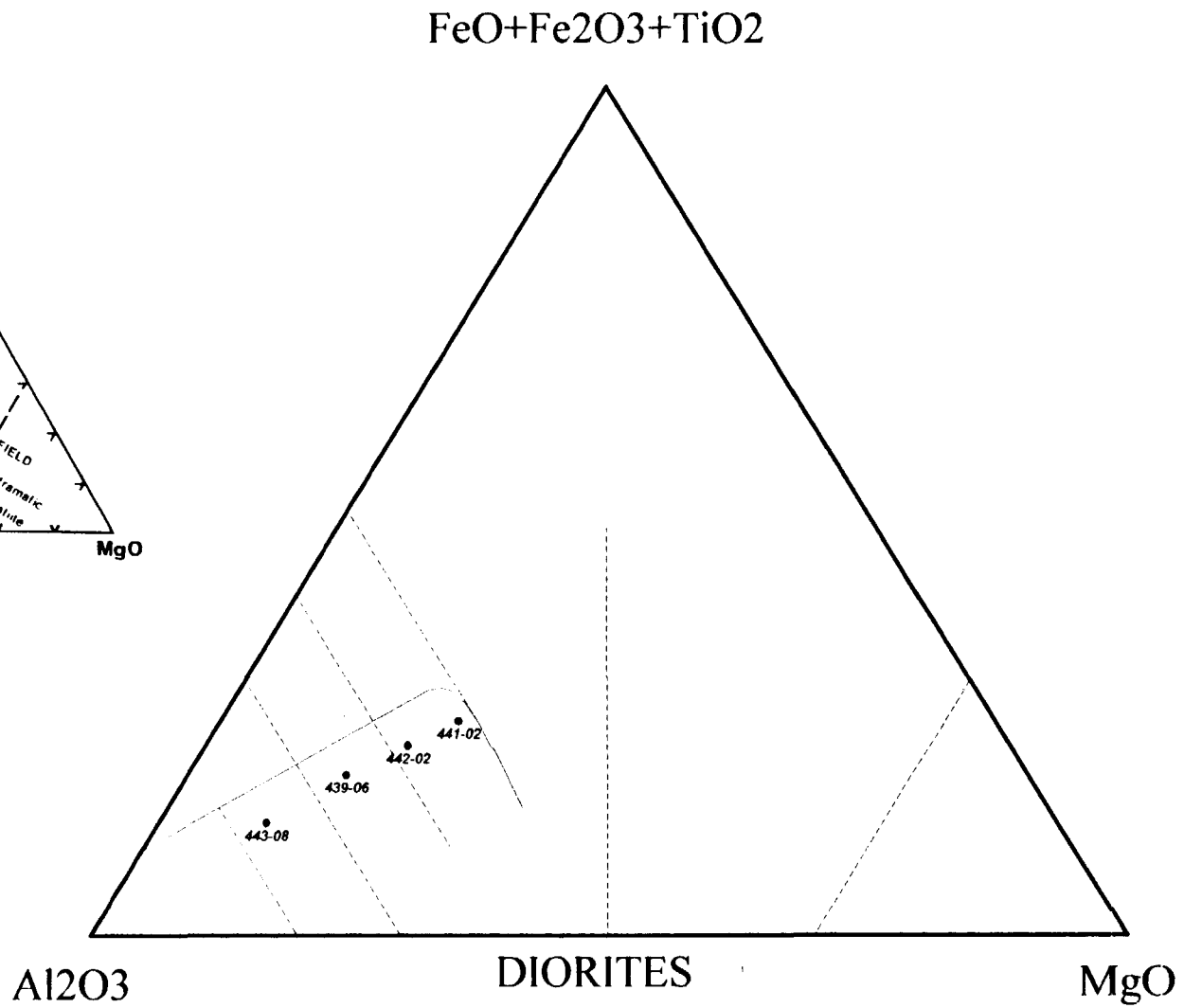
FELSIC VOLCANICS AND TUFFS

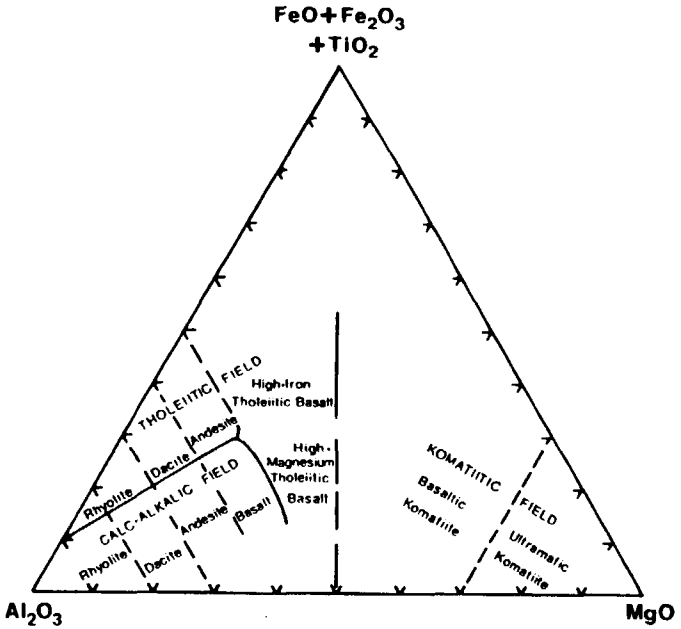


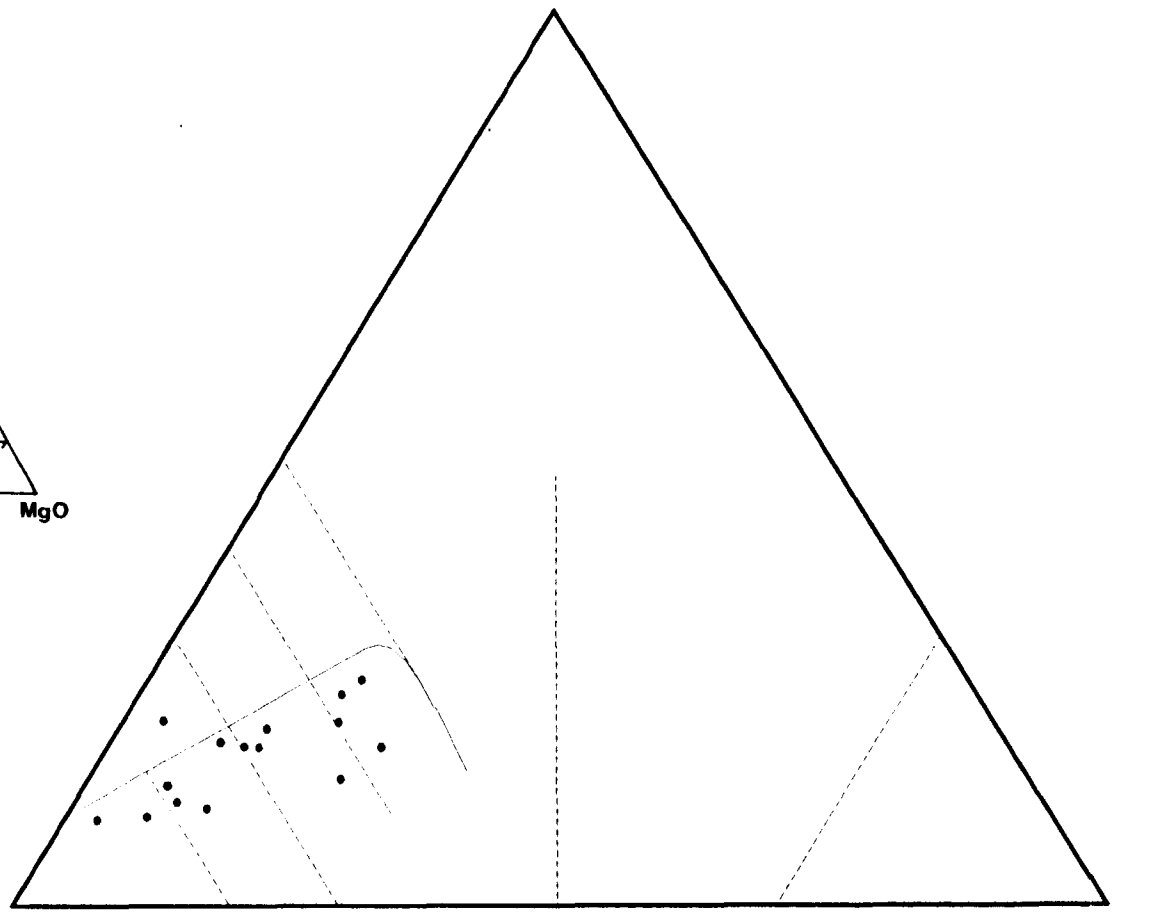


QUARTZ, FELDSPAR AND QUARTZ-FELDSPAR PORPHYRIES


FeO+Fe2O3
+TiO2
THOLEIITIC FIELD
High-Iron
Tholeiitic Basalt
Andesite
Dacite
Rhyolite
High-
Magnesium
Tholeiitic
Basalt
CALC-ALKALIC FIELD
Andesite
Basalt
Rhyolite
Dacite
KOMATIITIC
Basaltic
Komatiite
FIELD
Ultramafic
Komatiite
Al2O3
MgO


FeO+Fe2O3+TiO2
441-02
442-02
439-06
443-08
Al2O3
DIORITES
MgO


FeO+Fe2O3
+TiO2
THOLEIITIC FIELD
High-Iron Tholeiitic Basalt
Andesite
Dacite
Rhyolite
High-Magnesium Tholeiitic Basalt
CALC-ALKALIC FIELD
Rhyolite
Dacite
Andesite
Basalt
KOMATIITIC FIELD
Basaltic Komatiite
Ultramafic Komatiite
Al2O3
MgO


FeO+Fe2O3+TiO2
Al2O3
TURBIDITES
MgO

Sample description	AU PPB	AS PPM	MASS G
RR-97-321-04	21	8	35.46
RR-97-322-03	<5	7	38.82
RR-97-323-05	<5	7	38.46
RR-97-324-06	<5	<2	37.39
RR-97-325-11	<5	13	40.58
RR-97-326-02	<5	12	40.03
RR-97-327-03	8	5	34.09
RR-97-328-04	9	3	36.73
RR-97-329-04	14	8	38.36
RR-97-330-05	<5	3	36.04
RR-97-331-03	<5	3	30.01
RR-97-332-02	<5	<2	39.07
RR-97-333-05	5	<2	32.86
RR-97-334-02	<5	<2	41.69
RR-97-335-04	<5	<2	35.72
RR-97-336-05	<5	<2	35.66
RR-97-337-04	<5	6	40.13
RR-97-338-08	<5	2	34.88

Sample description	AU PPB	AS PPM	MASS G
RR-97-339-10	<5	<2	25.68
RR-97-340-08	<5	5	18.23
RR-97-341-02	8	11	22.06
RR-97-342-05	<5	<2	22.48
RR-97-343-07	<5	<2	22.77
RR-97-344-02	10	4	26.09
RR-97-345A-03	<5	<2	24.73
RR-97-346-02	<5	<2	18.38
RR-97-347-02	<5	5	19.62
RR-97-348-02	<5	<2	25.48
RR-97-349-02	<5	<2	21.46
RR-97-350-02	9	<2	27.70
RR-97-351-01	8	<2	21.87
RR-97-352-02	<5	<2	25.45
RR-97-353-07	8	<2	25.09
RR-97-354-02	<5	3	29.22
RR-97-355-02	<5	<2	23.03
RR-97-356-02	<5	<2	21.90
RR-97-357-02	<5	<2	21.71
RR-97-358-03	<5	<2	26.54
RR-97-359-05	<5	<2	23.12
RR-97-360-08	<5	<2	25.16
RR-97-361-12	<5	<2	24.27

Sample description	AU PPB	AS PPM	Mass g
RR 97 362-12	2	<0.5	34.88
RR 97 363-07	<2	0.6	29.96
RR 97 364-07	<2	1.8	38.50
RR 97 365-09	6	2.6	34.50
RR 97 366-06	<2	1.0	36.99
RR 97 367-02	<2	1.4	40.22
RR 97 368-02	<2	2.3	29.07
RR 97 369-11	<2	11	29.24
RR 97 370-03	<2	<0.5	28.57
RR 97 371-02	<2	2.3	41.32
RR 97 372-02	<2	<0.5	32.25
RR 97 372-03	<2	0.9	37.45
RR 97 372-04	<2	<0.5	32.18
RR 97 373-04	<2	1.7	27.32
RR 97 374-05	<2	<0.5	33.56
RR 97 375-02	<2	<0.5	33.45
RR 97 376-15	<2	<0.5	37.07
RR 97 377-02	<2	<0.5	40.61
RR 97 378-02	<2	<0.5	32.18

Sample description	AU PPB	AS PPM
RR-97 379-06	<2	<0.5
RR-97 380-07	<2	<0.5
RR-97 381-03	<2	2.4
RR-97 383-03	<2	<0.5
RR-97 384-06	<2	4.3
RR-97 385-13	<2	1.9
RR-97 386-15	7	6.6
RR-97 387-09	<2	<0.5
RR-97 389-06	<2	<0.5
RR-97 390-12	<2	<0.5
RR-97 391-06	4	<0.5
RR-97 392-02	<2	<0.5
RR-97 393-05	<2	<0.5
RR-97 395-01	<2	1.3
RR-97 382-05	6	4.8
RR-97 392-0TC	9	2.7

Sample description	AU PPB	AS PPM	Mass g
RR-97 388-6	<2	<0.5	28.04
RR-97 394-04	<2	2.0	23.41
RR-97 396-03	<2	<0.5	19.64

Sample description	AU PPB	AS PPM	Mass g
RR-97 397-04	5	34	27.83
RR-97 398 06	4	2.9	26.08
RR-97 399-04	<2	1.7	25.20
RR-97 400 02	<2	1.6	23.39
RR-97 401-07	<2	2.2	27.28
RR-97 402-07	<2	1.5	34.45
RR-97 403-04	<2	3.0	38.88
RR-97 404-06	<2	2.3	36.09
RR-97 404-07	<2	6.9	34.89
RR-97 405 02	<2	1.3	34.12
RR-97 406 02	<2	2.9	33.12
RR-97 406-03	4	1.0	37.78

Sample description	AU PPB	AS PPM	Mass g
RR-97-407-04	<2	<0.5	36.80
RR-97-408-08	<2	20	34.58
RR-97-409-03	<2	2.4	40.28
RR-97-410-13	<2	3.5	18.64
RR-97-410-14	3	2.9	29.43
RR-97-411-14	<2	10	38.23
RR-97-412-10	4	1.0	35.36
RR-97-413-02	<2	16	33.29
RR-97-414-12	<2	1.2	37.64
RR-97-415-06	<2	<0.5	34.48
RR-97-416-10	<2	23	24.09
RR-97-417-04	<2	<0.5	40.49
RR-97-418-07	4	4.0	31.06

Sample description	AU PPB	AS PPM	Mass g
RR-97 419-04	5	1.0	22.68
RR-97 420-05	<2	75	19.24
RR-97 421-08	<2	1.7	21.82
RR-97 421-09	<2	1.3	34.53
RR-97 422-02	6900	1.2	29.98
RR-97 423-09	5	3.6	20.41
RR-97 425-04	<2	1.8	23.20
RR-97 426-02	25	1.1	26.54
RR-97 427-02	31	7.7	23.58
RR-97 428-02	10	50	24.17
RR-97 429-02	828	72	23.81
RR-97 431-03	19	4.8	30.83
RR-97 432-06	145	8.4	27.91
RR-97 433A-02	233	26	24.89
RR-97 434-04	6	13	27.81
RR-97 435-02	41	16	29.49
RR-97 436-06	6	5.7	24.85
RR-97 436-07	6	8.5	26.80
RR-97 437-02	15	1.5	25.96
RR-97 437-03	<2	2.1	21.63
RR-97 438-04	<2	9.9	29.77
RR-97 424-04	5	1.3	28.23
RR-97 430-03	41	8.6	26.06

Sample description	AU PPB	AS PPM	Mass g
RR-97 439-06	<2	<0.5	28.30
RR-97 441-01	21	1.8	31.97
RR-97 441-02	9	3.0	32.13
RR-97 441-03	4	2.3	32.34
RR-97 442-02	4	<0.5	31.68
RR-97 443-08	6	2.8	27.48
RR-97 444-03	<2	<0.5	20.05
RR-97 444-04	<2	<0.5	20.99
RR-97 445-02	<2	<0.5	25.89
RR-97 446-04	<2	<0.5	20.77
RR-97 447-03	<2	2.8	27.64
RR-97 448-05	<2	3.1	22.66
RR-97 449-06	4	<0.5	25.50
RR-97 449-07	5	1.3	26.09
RR-97 450-04	2	<0.5	20.34
RR-97 451-05	<2	<0.5	24.24
RR-97 452-04	<2	<0.5	18.84
RR-97 453-06	6	<0.5	28.67
RR-97 454-02	<2	1.9	26.04
RR-97 454-03	<2	<0.5	28.21

Inchcape Testing Services
Bondar Clegg

Geochemica
Lab
Report

CLIENT: NUINSCO RESOURCES LTD
REPORT: 097-40092.0 (COMPLETE)

PROJECT: RR-97
DATE PRINTED: 17-FEB-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB
RR97-321-04		50
RR97-323-05		<5
RR97-325-11		9
RR97-330-05		6
RR97-334-02		<5

Bondar-Clegg & Company Ltd.
5420 Canotek Road, Ottawa, Ontario, K1J 9G2, Canada
Tel: (613) 749-2220, Fax: (613) 749-7170

1322 rue Harricana
Val d'Or, Québec J9P 3X6
Tél: (819) 825-0178
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Inchcape Testing Services
Chimitec Ltée

CERTIFICAT D'ANALYSE

CLIENT: NUINSCO RESOURCES LTD
PROJECT: RR-97
REPORT: C97-60347.0 (COMPLETE)
DATE PRINTED: 28-FEB-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	Au Wt1 GM
RR-97-346-01		536	27.58
RR-97-364-01		951	29.81
RR-97-364-02		579	19.18
RR-97-364-04		7504	17.18
RR-97-364-05		1297	30.45
RR-97-364-06		1275	26.42
RR-97-365-01		1192	26.54
RR-97-365-02		1004	29.98
RR-97-365-03		772	26.29
RR-97-365-04		2402	27.05
RR-97-365-06		1370	28.15
RR-97-365-07		341	25.73
RR-97-386-15		15	31.03

ITS Intertek Testing Services
Chimitec Bondar Clegg

Certific
D'Analy

CLIENT: NUINSCO RESOURCES LTD
REPORT: C97-60946.0 (COMPLETE)

PROJECT: RR-97
DATE PRINTED: 30-APR-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB
RR-97-422-02		<5
RR-97-426-02		22
RR-97-427-02		25
RR-97-429-05		185
RR-97-430-03		25
RR-97-432-06		90
RR-97-433A-02		183
RR-97-435-02		15

ITS - Chimitec
1322-B rue Harricana, Val d'Or, Québec, J9P 3X6
Tél: (819) 825-0178, Fax: (819) 825-0256

SAMPLE	Ag	Cd	Cu	Mn	Ni	Pb	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RR-97-321-04	-0.2	-0.5	87	2350	53	6	158
RR-97-322-03	-0.2	-0.5	45	1260	14	-2	66
RR-97-323-05	-0.2	-0.5	66	1360	26	-2	62
RR-97-324-06	-0.2	-0.5	8	493	10	2	59
RR-97-325-11	0.5	0.5	73	2030	26	-2	122
RR-97-326-02	-0.2	-0.5	195	616	17	-2	56
RR-97-327-03	-0.2	-0.5	40	983	33	-2	61
RR-97-328-04	-0.2	-0.5	4	215	7	-2	17
RR-97-329-04	-0.2	0.5	16	440	14	-2	203
RR-97-330-05	-0.2	-0.5	36	775	8	-2	57
RR-97-331-03	-0.2	-0.5	2	54	15	-2	63
RR-97-332-02	-0.2	-0.5	6	93	12	-2	25
RR-97-333-05	-0.2	-0.5	2	59	13	-2	29
RR-97-334-02	-0.2	-0.5	83	1040	54	-2	76
RR-97-335-04	-0.2	-0.5	10	722	10	-2	55
RR-97-336-05	-0.2	-0.5	58	197	15	-2	35
RR-97-337-04	-0.2	-0.5	55	972	39	-2	73
RR-97-338-08	-0.2	-0.5	54	1150	41	-2	72

Adrienne I. Rittau, B.Sc., C.Chem
ICP Technical Manager

Negative values indicate less than the detection limit

SAMPLE	Ag	Cd	Cu	Mn	Ni	Pb	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RR-97-339-10	-0.2	-0.5	14	1400	15	3	40
RR-97-340-08	-0.2	-0.5	23	485	21	-2	49
RR-97-341-02	-0.2	-0.5	135	1960	59	2	82
RR-97-342-05	-0.2	-0.5	16	235	21	-2	54
RR-97-343-07	-0.2	-0.5	17	103	12	-2	35
RR-97-344-02	-0.2	-0.5	85	1650	58	-2	54
RR-97-345A-03	-0.2	-0.5	49	2000	65	-2	80
RR-97-346-02	-0.2	-0.5	3	948	10	2	65
RR-97-347-02	-0.2	-0.5	12	104	15	-2	43
RR-97-348-02	-0.2	-0.5	82	1140	46	4	104
RR-97-349-02	-0.2	-0.5	61	961	48	4	144
RR-97-350-02	-0.2	-0.5	84	825	59	-2	67
RR-97-351-01	-0.2	-0.5	50	1130	55	-2	104
RR-97-352-02	-0.2	-0.5	72	1080	41	-2	94
RR-97-353-07	-0.2	0.9	81	798	43	-2	183
RR-97-354-02	-0.2	-0.5	78	1010	42	-2	47
RR-97-355-02	-0.2	-0.5	69	1760	50	2	94
RR-97-356-02	-0.2	-0.5	19	813	27	-2	50
RR-97-357-02	-0.2	-0.5	3	430	11	-2	43
RR-97-358-03	-0.2	-0.5	3	237	7	-2	13
RR-97-359-05	-0.2	-0.5	40	606	39	-2	54
RR-97-360-08	-0.2	0.5	16	301	12	-2	29
RR-97-361-12	-0.2	-0.5	7	99	23	-2	48

Adrienne I. Rittau, B.Sc., C.Chem
ICP Technical Manager

Negative values indicate less than the detection limit

SAMPLE	Ag	Cd	Cu	Mn	Ni	Pb	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RR-97 362-12	-0.2	-0.5	12	81	14	-2	37
RR-97 363-07	-0.2	-0.5	9	103	14	-2	49
RR-97 364-07	-0.2	-0.5	140	530	42	-2	43
RR-97 365-09	-0.2	-0.5	77	961	55	-2	40
RR-97 366-06	-0.2	-0.5	18	196	32	-2	14
RR-97 367-02	-0.2	-0.5	59	468	60	-2	39
RR-97 368-02	-0.2	-0.5	55	587	39	-2	42
RR-97 369-11	-0.2	-0.5	42	3390	253	4	241
RR-97 370-03	-0.2	0.6	97	2120	57	-2	54
RR-97 371-02	-0.2	-0.5	187	1667	37	6	139
RR-97 372-02	-0.2	-0.5	27	469	47	-2	32
RR-97 372-03	-0.2	-0.5	12	981	21	-2	35
RR-97 372-04	-0.2	-0.5	25	862	2	2	3
RR-97 373-04	-0.2	-0.5	38	690	16	-2	80
RR-97 374-05	-0.2	-0.5	218	3710	37	2	54
RR-97 375-02	-0.2	-0.5	72	1620	57	-2	35
RR-97 376-15	-0.2	-0.5	26	482	40	-2	34
RR-97 377-02	-0.2	-0.5	36	400	25	-2	29
RR-97 378-02	-0.2	-0.5	11	302	43	-2	38

31/3/97

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ICP Technical Manager

Negative values indicate less than the detection limit

SAMPLE	Ag	Cu	Ni	Zn	Cd	Mn	Pb
	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RR-97 379-06	-0.2	5	60	35	-0.5	392	3
RR-97 380-07	-0.2	42	77	62	-0.5	602	6
RR-97 381-03	-0.2	41	86	51	-0.5	287	2
RR-97 383-03	-0.2	25	13	76	-0.5	588	2
RR-97 384-06	-0.2	79	20	17	-0.5	387	-2
RR-97 385-13	-0.2	9	30	30	-0.5	269	2
RR-97 386-15	-0.2	95	141	47	-0.5	1098	8
RR-97 387-09	-0.2	19	45	42	-0.5	373	-2
RR-97 389-06	-0.2	9	34	47	-0.5	2512	8
RR-97 390-12	-0.2	9	32	38	-0.5	321	2
RR-97 391-06	-0.2	19	43	34	-0.5	293	-2
RR-97 392-02	-0.2	29	16	14	-0.5	167	-2
RR-97 393-05	-0.2	8	16	21	-0.5	137	4
RR-97 395-01	-0.2	20	22	62	-0.5	271	3

Negative values indicate less than the detection limit

Adrienne I. Rittau, B.Sc., C.Chem
ICP Technical Manager

SAMPLE	Ag	Cu	Ni	Zn	Cd	Mn	Pb
	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RR-97-388-6	-0.2	5	70	58	-0.5	563	-2
RR-97-389-04	-0.2	44	30	156	-0.5	695	12
RR-97-386-03	-0.2	6	80	68	-0.5	636	3

Negative values indicate less than the detection limit

Adrienne I. Rittau, B.Sc., C.Chem
ICP Technical Manager

SAMPLE	Ag	Cd	Cu	Mn	Ni	Pb	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RR-97 397-04	-0.2	-0.5	3	150	11	3	71
RR-97 398-06	-0.2	-0.5	9	160	14	-2	58
RR-97 399-04	-0.2	-0.5	1	486	10	-2	44
RR-97 400-02	-0.2	-0.5	11	364	13	-2	46
RR-97 401-07	-0.2	-0.5	20	114	12	-2	33
RR-97 402-07	-0.2	-0.5	115	882	50	-2	59
RR-97 403-04	-0.2	-0.5	45	431	43	-2	25
RR-97 404-06	-0.2	-0.5	63	503	53	-2	30
RR-97 404-07	-0.2	-0.5	58	474	46	-2	21
RR-97 405-02	-0.2	-0.5	96	894	49	-2	58
RR-97 406-02	-0.2	-0.5	91	733	88	-2	47
RR-97 406-03	-0.2	-0.5	9	277	32	-2	17

Adrienne I. Rittau, B.Sc., C.Chem
ICP Technical Manager

Negative values indicate less than the detection limit

SAMPLE	Ag	Cu	Ni	Zn
	ppm	ppm	ppm	ppm
RR-97-407-04	-0.2	107	35	49
RR-97-408-08	-0.2	15	15	7
RR-97-409-03	-0.2	68	56	28
RR-97-410-13	-0.2	152	162	58
RR-97-410-14	-0.2	93	87	32
RR-97-411-14	-0.2	124	58	36
RR-97-412-10	-0.2	97	52	53
RR-97-413-02	-0.2	102	72	41
RR-97-414-12	-0.2	109	40	80
RR-97-415-06	-0.2	118	43	57
RR-97-416-10	-0.2	41	24	222
RR-97-417-04	-0.2	76	42	133
RR-97-418-07	-0.2	35	25	43

Adrienne I. Rittau, B.Sc., C.Chem
ICP Technical Manager

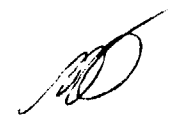
Negative values indicate less than the detection limit

SAMPLE	Ag	Cu	Ni	Zn
	ppm	ppm	ppm	ppm
RR-97 419-04	-0.2	8	10	62
RR-97 420-05	-0.2	33	88	116
RR-97 421-08	-0.2	8	2	5
RR-97 421-09	-0.2	4	3	2
RR-97 422-02	2.1	55	47	107
RR-97 423-09	-0.2	15	8	48
RR-97 425-04	-0.2	6	8	65
RR-97 426-02	-0.2	8	10	47
RR-97 427-02	-0.2	17	5	43
RR-97 428-02	-0.2	9	32	75
RR-97 429-02	0.9	30	9	613
RR-97 431-03	0.2	9	6	53
RR-97 432-06	0.4	24	5	23
RR-97 433A-02	0.4	23	9	63
RR-97 434-04	0.2	14	6	42
RR-97 435-02	0.4	16	7	9
RR-97 436-06	-0.2	13	12	30
RR-97 436-07	0.3	26	24	58
RR-97 437-02	-0.2	19	11	43
RR-97 437-03	-0.2	13	5	5
RR-97 438-04	-0.2	6	18	1
RR-97 424-04	-0.2	11	11	34
RR-97 430-03	0.4	123	14	107

Adrienne I. Rittau, B.Sc., C.Chem
ICP Technical Manager

Negative values indicate less than the detection limit

SAMPLE	Ag	Cu	Ni	Zn
	ppm	ppm	ppm	ppm
RR-97 439-06	-0.2	17	34	47
RR-97 440-01	-0.2	84	10	28
RR-97 440-02	-0.2	35	42	40
RR-97 440-03	-0.2	41	57	54
RR-97 442-02	-0.2	40	36	31
RR-97 443-08	0.4	16	32	25
RR-97 444-03	-0.2	110	32	114
RR-97 444-04	-0.2	78	23	96
RR-97 445-02	-0.2	40	18	50
RR-97 446-04	-0.2	27	23	73
RR-97 447-03	-0.2	36	16	47
RR-97 448-05	-0.2	21	14	44
RR-97 449-06	-0.2	85	25	84
RR-97 449-07	-0.2	32	14	49
RR-97 450-04	-0.2	20	28	77
RR-97 451-05	-0.2	31	10	24
RR-97 452-04	-0.2	19	11	32
RR-97 453-06	-0.2	37	21	75
RR-97 454-02	-0.2	59	27	46
RR-97 454-03	-0.2	58	16	77



Adrienne I. Rittau, B.Sc., C.Chem
ICP Technical Manager

Negative values indicate less than the detection limit

Sample description	AU PPB	AS PPM	Mass g
RR-97 321-01	125	74	54.00
RR-97 321-02	193	150	21.00
RR-97 321-03	472	400	23.00
RR-97 322-01	940	180	42.00
RR-97 322 02	612	290	31.00
RR-97 323 01	404	190	34.00
RR-97 323-02	1090	260	23.00
RR-97 323-03	612	200	43.00
RR-97 323-04	375	130	37.00
RR-97 324 01	836	110	41.00
RR-97 324 02	609	93	32.00
RR-97 324-03	227	72	39.00
RR-97 324-04	2100	150	27.00
RR-97 324-05	662	300	17.00
RR-97 325-01	221	97	38.00
RR-97 325-02	1100	150	18.00
RR-97 325-03	469	190	21.00
RR-97 325-04	158	170	3.000
RR-97 325 05	1250	150	3.000
RR-97 325-06	760	190	8.000
RR-97 325-07	314	71	29.00
RR-97 325 08	315	140	19.00
RR-97 325-09	548	270	24.00
RR-97 325-10	934	360	31.00
RR-97 326 01	795	380	22.00
RR 97 327 01	173	120	15.00
RR-97 327 02	382	780	43.00
RR-97 328 01	81	71	20.00
RR-97 328 02	961	110	18.00
RR-97 328 03	585	130	9.000
RR-97 329 01	179	76	48.00
RR-97 329 02	705	120	7.000
RR-97 329 03	723	270	49.00
RR 97 330 01	782	340	76.00
RR 97 330 02	947	360	74.00
RR 97 330 03	1030	420	71.00
RR 97 330 04	937	350	67.00
RR 97 331 01	2550	430	55.00
RR 97 331 02	2610	430	43.00
RR 97 332 01	2080	500	68.00
RR 97 333	1000	260	49.00
RR 97 333	1780	210	68.00
RR 97 333	971	170	70.00
RR 97 333	850	190	68.00
RR 97 334	80	61	14.00

Sample description	AU PPB	AS PPM	Mass g
RR-97 335-01	505	120	34.00
RR-97 335-02	628	210	23.00
RR-97 335-03	342	170	47.00
RR-97 336-01	995	500	54.00
RR-97 336-02	1480	290	34.00
RR-97 336-03	1510	1200	25.00
RR-97 336-04	689	180	55.00
RR-97 337-01	344	380	4.000
RR-97 337 02	715	170	33.00
RR-97 337-03	151	70	52.00
RR-97 338-01	177	75	42.00
RR-97 338-02	188	120	33.00
RR-97 338-03	399	200	29.00
RR-97 338-04	858	200	12.00
RR-97 338-05	451	200	14.00
RR-97 338 06	483	170	31.00
RR-97 338-07	985	370	30.00
RR-97 339-01	159	87	46.00
RR-97 339-02	465	160	41.00
RR-97 339-03	461	150	67.00
RR-97 339 04	913	260	25.00
RR-97 339-05	381	220	66.00
RR-97 339 06	761	270	23.00
RR 97 339-07	1130	220	26.00
RR 97 339 08	891	180	28.00
RR-97 339-09	145	78	50.00
RR-97 340-01	164	170	41.00
RR-97 340-02	436	130	40.00
RR 97 340 03	553	140	35.00
RR 97 340 04	205	86	52.00
RR 97 340 05	367	150	34.00
RR 97 340-06	1080	140	32.00
RR 97 340 07	1820	110	50.00
RR 97 341 01	483	150	39.00
RR 97 342 01	1280	190	37.00
RR 97 342 02	684	210	18.00
RR 97 342 03	184	130	50.00
RR 97 342 04	262	120	40.00
RR 97 343 01	354	110	21.00
RR 97 343 02	579	200	13.00
RR 97 343 03	542	1	17.00
RR 97 343 04	1210	1	11.00
RR 97 343 05	467	1	11.00
RR 97 343 06	369	1	28.00
RR 97 344 01	306	1	1

Sample description	AU PPB	AS PPM	Mass g
RR-97 345-01	188	120	40.00
RR-97 345-02	506	120	42.00
RR-97 346-01	581	180	65.00
RR-97 347-01	1030	270	66.00
RR-97 348-01	189	13	20.00
RR-97 349-01	827	31	17.00
RR-97 350-01	77	33	28.00
RR-97 352-01	178	47	24.00
RR-97 353-01	515	350	19.00
RR-97 353-02	865	220	32.00
RR-97 353-03	280	110	29.00
RR-97 353-04	82	23	28.00
RR-97 353-05	597	160	22.00
RR-97 353-06	331	130	30.00
RR-97 354-01	223	110	53.00
RR-97 355-01	758	190	23.00
RR-97 356-01	481	200	29.00
RR-97 357-01	282	110	62.00
RR-97 358-01	42	25	21.00
RR-97 358-02	94	15	27.00
RR-97 359-01	292	81	48.00
RR-97 359-02	65	58	53.00
RR-97 359-03	307	89	51.00
RR-97 359-04	225	79	27.00
RR-97 360 01	453	140	53.00
RR-97 360-02	160	140	42.00
RR-97 360-03	910	170	33.00
RR-97 360 04	453	190	25.00
RR-97 360 05	765	290	62.00
RR-97 360 06	1060	220	39.00
RR 97 360 07	1650	130	37.00
RR-97 361-01	728	240	28.00
RR 97 361 02	125	53	39.00
RR-97 361 03	71	41	54.00
RR 97 361 04	135	74	16.00
RR-97 361 05	855	240	36.00
RR 97 361 06	151	100	35.00
RR 97 361 07	132	40	64.00
RR 97 361 08	950	100	57.00
RR 97 361 09	585	72	62.00
RR 97 361 10	309	91	62.00
RR-97 361 11	172	63	64.00
RR 97 362 01	475	110	24.00
RR 97 362 02	187	64	41.00
RR 97 362 03	347	84	53.00

Sample description	AU PPB	AS PPM	Mass g
RR-97 362-04	332	110	45.00
RR-97 362-05	273	130	51.00
RR-97 362-06	243	180	38.00
RR-97 362-07	323	130	29.00
RR-97 362-08	283	140	32.00
RR-97 362-09	823	220	21.00
RR-97 362-10	463	110	32.00
RR-97 362-11	140	100	34.00
RR-97 363-01	216	73	50.00
RR-97 363-02	195	80	45.00
RR-97 363-03	303	110	53.00
RR-97 363-04	997	73	38.00
RR-97 363-05	161	81	45.00
RR-97 363-06	44	52	37.00
RR-97 364-01	724	250	67.00
RR-97 364-02	777	280	61.00
RR-97 364-03	689	340	31.00
RR-97 364-04	9250	240	60.00
RR-97 364-05	793	210	66.00
RR-97 364-06	5320	280	65.00
RR-97 365-01	1700	440	60.00
RR-97 365-02	900	240	63.00
RR-97 365-03	655	190	60.00
RR-97 365-04	1040	230	64.00
RR-97 365-05	1350	270	28.00
RR-97 365-06	1220	280	63.00
RR-97 365-07	412	120	57.00
RR-97 365-08	656	190	66.00
RR-97 366-01	1210	300	64.00
RR-97 366-02	1150	330	67.00
RR-97 366-03	1680	370	65.00
RR-97 366-04	931	380	67.00
RR-97 366-05	1520	270	66.00
RR-97 367-01	614	160	45.00
RR-97 368-01	159	79	60.00
RR-97 369-01	124	130	39.00
RR-97 369-02	672	220	41.00
RR-97 369-03	7	220	47.00
RR-97 369-04	19	96	36.00
RR-97 369-05	93	74	12.00
RR-97 369-06	21	94	36.00
RR-97 369-07	2	180	26.00
RR-97 369-08	3	170	28.00
RR-97 369-09	1	260	41.00
RR-97 369-10	1	140	34.00

Sample description	AU PPB	AS PPM	Mass g
RR-97 370-01	153	170	24.00
RR-97 370-02	110	87	4.000
RR-97 371-01	60	110	1.000
RR-97 372-01	169	130	10.00
RR-97 373-01	89	83	49.00
RR-97 373-02	181	120	24.00
RR-97 373-03	96	67	55.00
RR-97 374-01	248	60	48.00
RR-97 374-02	117	97	10.00
RR-97 374-03	586	200	32.00
RR-97 374-04	192	130	40.00
RR-97 375-01	130	77	6.000
RR-97 387-01	498	170	61.00
RR-97 387-02	367	120	66.00
RR-97 387-03	694	150	59.00
RR-97 387-04	815	180	38.00
RR-97 387-05	1420	130	58.00
RR-97 387-06	1320	180	40.00
RR-97 387-07	949	67	38.00
RR-97 387-08	3380	120	10.00
RR 97 388 01	304	170	28.00
RR 97 388 02	394	47	31.00
RR 97 388 03	199	45	34.00
RR 97 388 04	15	90	26.00
RR 97 388 05	63	77	23.00
RR 97 389 01	1210	220	48.00
RR-97 389 02	636	160	43.00
RR 97 389 03	529	100	48.00
RR 97 389 04	356	110	28.00
RR 97 389 05	410	110	22.00
RR 97 390 01	250	130	52.00
RR 97 390 02	573	200	38.00
RR 97 390 03	321	160	56.00
RR 97 390 04	600	150	40.00
RR 97 390 05	307	160	69.00
RR 97 390 06	1100	250	67.00
RR 97 390 07	193	58	63.00
RR 97 390 08	298	110	41.00
RR 97 390 09	144	86	56.00
RR 97 390 10	231	130	32.00
RR 97 390 11	314	100	33.00
RR 97 391 01	455	120	48.00
RR 97 391 02	130	98	50.00
RR 97 391 03	261	110	43.00
RR 97 391 04	82	91	50.00

Sample description	AU PPB	AS PPM	Mass g
RR-97 391 05	437	110	53.00
RR-97 392 01	1510	63	9.000
RR-97 393 01	100	110	13.00
RR-97 393-02	68	53	34.00
RR-97 393-03	296	98	38.00
RR-97 393-04	259	140	59.00
RR-97 394-01	2650	310	70.00
RR-97 394-02	1650	270	45.00
RR-97 394-03	206000	440	27.00
RR-97 396-01	495	240	46.00
RR-97 396-02	429	180	53.00
RR-97 376 01	2630	170	26.00
RR-97 376 02	208	170	64.00
RR-97 376-03	117	250	6.000
RR-97 376-04	306	190	46.00
RR-97 376-05	254	450	27.00
RR-97 376-06	1500	150	39.00

Sample description	AU PPB	AS PPM	Mass g
384-03	960	220	69.00
384-04	157	150	57.00
384-05	149	100	60.00
385-01	779	160	66.00
385-02	591	140	66.00
385-03	1180	200	68.00
385-04	459	150	70.00
385-05	748	160	69.00
385-06	907	180	75.00
385-07	1120	230	70.00
385-08	1050	210	74.00
385-09	1150	220	46.00
385-10	739	190	46.00
385-11	349	220	40.00
385-12	183	280	27.00
386-01	547	230	50.00
386-02	610	200	67.00
386-03	402	150	65.00
386-04	425	160	61.00
386-05	770	200	61.00
386-06	462	150	60.00
386-07	895	210	66.00
386-08	902	140	63.00
386-09	800	220	48.00
386-10	555	200	50.00
386-11	224	200	45.00
386-12	499	110	28.00
386-13	223	140	37.00
386-14	57	76	68.00
432-05	1360	320	75.00
433-01	7050	240	72.00
433-02	3790	290	75.00
433-03	4220	260	75.00
433-04	6670	240	75.00
433A-01	3650	230	72.00
434-01	1230	240	72.00
434-02	3300	230	75.00
434-03	3380	250	75.00
435-01	1950	250	75.00
436-01	332	160	69.00
436-02	452	130	60.00
436-03	355	190	68.00
436-04	451	170	71.00
436-05	210	110	56.00
437-01	495	140	60.00

Sample description	AU PPB	AS PPM	Mass g
438-01	832	220	75.00
438-02	535	210	74.00
438-03	701	200	75.00
439-01	748	160	56.00
439-02	563	120	64.00
439-03	351	150	46.00
439-04	833	66	55.00
439-05	177	88	33.00
441-01	893	190	37.00
442-01	642	130	14.00
443-01	2580	210	69.00
443-02	916	150	63.00
443-03	1460	160	74.00
443-04	944	160	70.00
443-05	737	97	64.00
443-06	831	150	61.00
443-07	858	170	63.00
444-01	133	71	53.00
444-02	115	62	44.00
445-01	374	81	62.00
446-01	198	62	59.00

Sample description	AU PPB	AS PPM	Mass g
RR-97 397-01	468	210	40.00
RR-97 397-02	1650	430	54.00
RR-97 397-03	872	440	32.00
RR-97 398-01	1460	300	73.00
RR-97 398-02	2040	280	74.00
RR-97 398-03	2070	390	72.00
RR-97 398-04	2030	290	63.64
RR-97 398-05	1370	250	70.00
RR-97 399-01	1200	280	69.00
RR-97 399-02	1420	300	69.00
RR-97 399-03	2010	240	48.00
RR-97 401 06	833	200	48.00
RR-97 400-01	836	190	64.00
RR-97 401-01	648	220	62.00
RR-97 401-02	650	200	59.00
RR-97 401 03	1220	240	69.00
RR-97 401-04	1210	180	63.00
RR-97 401 05	850	180	62.00
RR-97 402 01	1120	340	61.00
RR-97 402 02	750	300	66.00
RR-97 402 03	1180	250	60.00
RR-97 402 04	639	220	64.00
RR-97 402 05	1330	310	67.00
RR-97 402 06	1140	300	60.00
RR-97 403 01	1010	300	72.00
RR-97 403 02	857	260	70.00
RR-97 403 03	1970	250	68.00
RR-97 404 01	567	180	45.00
RR-97 404 02	733	210	37.00
RR-97 404 03	1390	270	68.00
RR-97 404 04	910	240	72.00
RR-97 404 05	2120	360	68.00
RR-97 405 01	559	200	67.00
RR-97 406 01	1420	320	77.00
RR-97 407 01	832	200	64.00
RR-97 407 02	720	220	66.00
RR-97 407 03	828	250	69.00
RR-97 408 01	710	190	66.00
RR-97 408 02	891	190	67.00
RR-97 408 03	542	180	61.00
RR-97 408 01	[illegible]	200	41.00
RR-97 409 [illegible]	[illegible]	170	58.00
RR-97 4[illegible]	[illegible]	200	61.00
RR-97 [illegible]	[illegible]	210	60.00
RR-97 [illegible]	[illegible]	240	44.00

Sample description	AU PPB	AS PPM	Mass g
RR-97 376-08	317	160	52.00
RR-97 376-09	237	130	36.00
RR-97 376-10	18	160	29.00
RR-97 376-11	25	140	45.00
RR-97 376-12	2130	150	33.00
RR-97 376-13	218	130	64.00
RR-97 376-14	243	230	62.00
RR-97 377-01	81	100	66.00
RR-97 378-01	817	200	29.00
RR-97 379-01	251	220	47.00
RR-97 379-02	309	220	54.00
RR-97 379-03	205	130	60.00
RR-97 379-04	506	180	48.00
RR-97 379-05	533	150	43.00
RR-97 380-01	71	230	37.00
RR-97 380-02	433	230	27.00
RR-97 380-03	45	190	27.00
RR-97 380-04	90	200	39.00
RR-97 380-05	114	290	48.00
RR-97 380-06	37	250	50.00
RR-97 381-01	268	260	24.00

Sample description	AU PPB	AS PPM	Mass g
RR-97 381-02	427	240	43.00
RR-97 382-01	307	160	63.00
RR-97 382-02	470	220	67.00
RR-97 382-03	393	140	60.00
RR-97 382-04	137	140	65.00
RR-97 383-01	813	170	63.00
RR-97 383-02	817	230	49.00
RR-97 384-01	824	290	62.00
RR-97 384-02	699	170	65.00
RR-97 409-01	1070	260	63.00
RR-97 409-02	980	230	65.00
RR-97 410-01	1430	310	65.00
RR-97 410-02	632	180	63.00
RR-97 410-03	1090	270	41.00
RR-97 410-04	1450	260	49.00
RR-97 410-05	1920	450	66.00
RR-97 410-06	1750	350	64.00
RR-97 410-07	1220	280	65.00
RR-97 410-08	865	320	68.00
RR-97 410-09	659	160	54.00
RR-97 410-10	471	150	49.00
RR-97 410-11	623	190	61.00
RR-97 410-12	963	320	66.00
RR-97 411-01	2660	370	67.00
RR-97 411-02	1720	490	72.00
RR-97 411-03	1800	440	68.00
RR-97 411-04	1840	460	74.00
RR-97 411-05	7050	420	69.00
RR-97 411-06	1240	350	67.00
RR-97 411-07	1510	430	70.00
RR-97 411-08	2260	480	69.00
RR-97 411-09	1420	570	68.00
RR-97 411-10	1710	540	68.00
RR-97 411-11	1160	400	71.00
RR-97 411-12	1270	430	69.00
RR-97 411-13	1110	280	64.00
RR-97 412-01	1970	330	69.00
RR-97 412-02	1190	280	71.00
RR-97 412-03	1490	490	69.00
RR-97 412-04	1520	400	65.00
RR-97 412-05	1010	320	72.00
RR-97 412-06	1750	410	70.00
RR-97 412-07	1620	490	59.00
RR-97 412-08	1350	330	65.00
RR-97 412-09	852	320	44.00

Sample description	AU PPB	AS PPM	Mass g
RR-97 413-01	484	760	19.00
RR-97 414-01	424	160	52.00
RR-97 414-02	171	94	61.00
RR-97 414-03	253	82	69.00
RR-97 414-04	248	88	64.00
RR-97 414-05	199	73	64.00
RR-97 414-06	207	73	58.00
RR-97 414-07	158	90	60.00
RR-97 414-08	234	71	58.00
RR-97 414-09	220	78	57.00
RR-97 414-10	320	140	60.00
RR-97 414-11	757	130	61.00
RR-97 415-01	482	130	61.00
RR-97 415-02	1010	190	64.00
RR-97 415-03	1270	340	66.00
RR-97 415-04	1150	410	74.00
RR-97 415-05	670	300	71.00
RR-97 416-01	1040	270	76.00
RR-97 416-02	1140	250	67.00
RR-97 416-03	1600	300	69.00
RR-97 416-04	1350	420	69.00
RR-97 416-05	1560	380	73.00
RR-97 416-06	1630	360	74.00
RR-97 416-07	876	310	68.00
RR-97 416-08	631	250	70.00
RR-97 416-09	584	280	73.00
RR-97 417-01	783	230	41.00
RR-97 417-02	476	170	60.00

Sample description	AU PPB	AS PPM	Mass g
RR97 418-01	174	82	60.95
RR97 418-02	757	200	65.00
RR97 418-03	659	220	69.94
RR97 418-04	485	220	66.90
RR97 418-05	1240	380	72.01
RR97 418-06	839	210	58.94
RR97 419-01	598	190	60.02
RR97 419-02	753	220	35.93
RR97 419-03	423	250	45.99
RR97 420-01	610	200	58.01
RR97 420-02	474	120	63.87
RR97 420-03	491	180	59.95
RR97 420-04	995	270	68.04
RR97 421-01	437	160	64.90
RR97 421-02	737	290	56.10
RR97 421-03	1750	430	75.06
RR97 421-04	1390	490	71.97
RR97 421-05	2850	450	52.00
RR97 421-06	1050	330	67.97
RR97 421-07	2400	450	71.00
RR97 422-01	971	220	66.88
RR97 423-01	788	310	66.03
RR97 423-02	522	210	62.07
RR97 423-03	666	260	65.56
RR97 423-04	571	220	67.96
RR97 423-05	406	170	62.07
RR97 423-06	399	270	58.95
RR97 423-07	1800	390	77.10
RR97 423-08	1630	270	67.96
RR97 424-01	700	150	64.06
RR97 424-02	888	180	62.04
RR97 424-03	789	240	58.00
RR97 425-01	588	300	73.99
RR97 425-02	1140	310	70.00
RR97 425-03	1050	330	68.05
RR97 426-01	1220	140	74.10
RR97 427-01	1350	230	63.99
RR97 428-01	1210	490	63.94
RR97 429-01	597	220	59.01
RR97 429-02	484	170	45.06
RR97 429-03	1180	260	61.97
RR97 429-04	1950	1000	72.01
RR97 430-01	1030	260	34.99
RR97 430-02	452	140	73.96
RR97 431-01	1750	400	70.07

Sample description	AU PPB	AS PPM	Mass g
RR97 431-02	1880	440	74.04
RR97 432-01	1120	190	21.95
RR97 432-02	1550	300	74.94
RR97 432-03	2000	560	69.01
RR97 432-04	2170	470	70.96

Sample description	AU PPB	AS PPM	Mass g
446-02	227	93	60.00
446-03	124	92	55.00
447-01	137	73	63.00
447-02	155	83	23.00
448-01	93	100	37.00
448-02	156	82	50.00
448-03	201	61	50.00
448-04	653	160	33.00
449-01	413	90	61.00
449-02	324	85	61.00
449-03	169	91	57.00
449-04	286	96	65.00
449-05	353	82	36.00
450-01	213	100	54.00
450-02	168	75	39.00
450-03	205	65	47.00
451-01	132	94	35.00
451-02	140	93	55.00
451-03	106	89	45.00
451-04	1040	83	40.00
452-01	170	97	58.00
452-02	136	66	52.00
452-03	88	100	6.000
453-01	83	110	34.00
453-02	121	82	55.00
453-03	425	120	65.00
453-04	235	160	52.00
453-05	35	75	30.00
454-01	251	260	27.00

SAMPLE DESCRIPTION	AU GM/T
RR-97 433A-01	2.11
RR-97 433-01	14.22
RR-97 433-02	3.66
RR-97 433-04	5.11

SAMPLE DESCRIPTION	AU G/T
433-01	LOST
433-03	4.03

Intertek Testing Services
Chimitec Bondar Clegg

Certific
D'Analy

CLIENT: NUINSCO RESOURCES LTD
REPORT: C97-60930.0 (COMPLETE)

PROJECT: RR-97
DATE PRINTED: 25-APR-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB
RR-97-433-01		1304
RR-97-433-02		1691
RR-97-433-04		693
RR-97-433A-01		1702

ITS - Chimitec
1322-B rue Harricana, Val d'Or, Québec, J9P 3X6
Tél: (819) 825-0178, Fax: (819) 825-0256

SAMPLE	Ag	Cu	Ni	Zn	Cd	Mn	Pb
	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RR-97 321-01	0.7	317	73	46	0.9	965	12
RR-97 321-02	0.7	380	85	43	1.1	1130	16
RR-97 321-03	1.3	1120	98	37	1.2	1190	2
RR-97 322-01	1.1	770	115	82	1.4	1590	10
RR-97 322-02	0.7	1460	101	100	2.4	1850	-2
RR-97 323-01	1.0	576	92	48	2.0	1260	5
RR-97 323-02	1.0	697	121	211	2.9	1320	16
RR-97 323-03	1.8	614	107	78	1.1	1510	13
RR-97 323-04	2.0	1700	67	27	0.5	1090	-2
RR-97 324-01	0.8	357	75	35	1.8	999	12
RR-97 324-02	0.7	373	67	37	0.9	863	8
RR-97 324-03	1.7	255	64	66	1.1	1080	12
RR-97 324-04	1.1	617	87	76	1.7	1200	9
RR-97 324-05	1.3	589	106	123	2.2	979	21
RR-97 325-01	0.9	365	78	63	1.0	943	15
RR-97 325-02	2.3	425	78	58	1.0	834	16
RR-97 325-03	3.2	406	93	60	2.0	1260	17
RR-97 325-04	1.3	759	97	119	1.8	1560	24
RR-97 325-05	1.3	675	100	51	0.8	1700	16
RR-97 325-06	1.5	572	87	56	2.1	1350	15
RR-97 325-07	0.7	354	65	40	0.9	904	12
RR-97 325-08	0.9	461	80	59	-0.5	1040	16
RR-97 325-09	1.5	531	112	93	1.5	1390	15
RR-97 325-10	4.5	541	107	168	2.2	1070	33
RR-97 326-01	1.0	1630	97	40	2.5	1400	-2
RR-97 327-01	0.7	344	74	50	2.2	1170	15
RR-97 327-02	2.0	1070	112	9	1.9	662	-2
RR-97 328-01	0.5	375	47	41	1.1	736	11
RR-97 328-02	1.2	214	58	40	0.9	931	13
RR-97 328-03	1.0	582	93	57	1.5	865	22
RR-97 329-01	1.0	402	76	97	1.0	842	14
RR-97 329-02	2.2	497	93	138	2.4	1230	21
RR-97 329-03	2.5	843	85	395	1.4	5290	15
RR-97 330-01	3.9	815	105	1230	15.8	2100	37
RR-97 330-02	3.6	751	88	1190	14.2	2030	38
RR-97 330-03	4.1	1050	96	1080	13.7	3230	29
RR-97 330-04	4.3	889	95	1720	16.6	4300	34
RR-97 331-01	10.0	489	114	661	4.0	2680	44
RR-97 331-02	6.6	669	122	765	6.9	3540	60

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Negative values indicate less than the detection limit

SAMPLE	Ag	Cu	Ni	Zn	Cd	Mn	Pb
	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RR-97 332-01	5.2	913	112	483	5.2	2620	35
RR-97 333-01	2.3	422	110	227	2.0	3620	26
RR-97 333-02	2.3	539	113	728	5.6	4680	34
RR-97 333-03	2.1	481	107	273	2.0	4510	21
RR-97 333-04	2.1	411	119	251	1.7	3610	59
RR-97 334-01	0.7	276	69	62	1.4	721	31
RR-97 335-01	1.0	367	77	112	1.5	1150	70
RR-97 335-02	1.7	651	101	153	1.9	3190	13
RR-97 335-03	1.5	753	75	147	2.3	3480	11
RR-97 336-01	4.2	819	126	540	5.9	2470	11
RR-97 336-02	2.6	3720	104	378	4.3	1610	19
RR-97 336-03	3.0	731	115	189	4.2	3100	25
RR-97 336-04	1.5	953	75	254	3.1	6500	20
RR-97 337-01	1.0	917	106	58	2.2	1610	15
RR-97 337-02	1.7	468	69	107	1.1	2490	6
RR-97 337-03	0.8	398	57	94	0.7	2500	7
RR-97 338-01	0.9	440	89	69	1.0	1180	17
RR-97 338-02	0.8	515	117	92	1.5	1390	16
RR-97 338-03	1.2	540	115	118	1.7	1460	19
RR-97 338-04	1.1	955	170	93	2.8	1680	3
RR-97 338-05	1.3	630	125	75	2.2	1930	23
RR-97 338-06	1.8	493	94	69	1.6	1570	22
RR-97 338-07	5.2	932	139	90	2.3	2040	3
RR-97 339-01	0.6	355	73	57	1.1	1180	11
RR-97 339-02	0.7	570	93	48	1.4	2500	24
RR-97 339-03	2.0	488	114	77	1.6	1280	16
RR-97 339-04	1.2	1170	103	97	0.8	2320	10
RR-97 339-05	1.5	772	91	195	3.4	1960	-2
RR-97 339-06	2.8	686	109	189	2.0	1990	6
RR-97 339-07	1.9	697	95	147	1.5	2380	7
RR-97 339-08	1.6	753	96	218	3.9	3410	14
RR-97 339-09	0.8	523	64	67	0.7	2700	10
RR-97 340-01	1.4	584	87	91	1.1	1890	-2
RR-97 340-02	1.1	653	97	101	2.1	2480	9
RR-97 340-03	2.0	576	91	128	1.7	2440	7
RR-97 340-04	1.4	820	68	112	1.3	2170	7
RR-97 340-05	0.8	999	77	75	0.7	2120	3
RR-97 340-06	0.7	679	78	71	1.1	2230	5
RR-97 340-07	1.1	515	83	99	1.3	2870	8
RR-97 341-01	0.7	1360	102	171	1.9	4040	11
RR-97 342-01	0.7	944	127	145	1.3	2630	6
RR-97 342-02	1.0	905	145	215	1.5	2760	7
RR-97 342-03	0.3	953	120	242	1.3	3260	4
RR-97 342-04	0.5	907	106	408	2.1	5180	12
RR-97 343-01	1.6	302	87	62	1.1	1620	64

Negative values indicate less than the detection limit

SAMPLE	Ag	Cu	Ni	Zn	Cd	Mn	Pb
	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RR-97 343-02	9.0	928	77	355	4.4	6390	18
RR-97 343-03	2.4	701	76	171	2.2	3450	13
RR-97 343-04	2.8	1410	80	268	13.8	8130	12
RR-97 343-05	1.2	666	73	232	2.6	5210	12
RR-97 343-06	2.3	1600	63	200	2.8	4860	18
RR-97 344-01	1.2	604	23	100	1.3	1850	16
RR-97 345-01	0.5	450	75	81	1.0	1930	8
RR-97 345-02	0.6	947	116	302	1.4	9570	17
RR-97 346-01	4.3	820	139	1020	7.5	2090	71
RR-97 347-01	4.2	467	120	641	3.6	2510	55
RR-97 348-01	0.2	234	93	29	-0.5	728	6
RR-97 349-01	5.1	287	126	59	1.9	675	-2
RR-97 350-01	0.2	235	50	17	0.5	1610	3
RR-97 352-01	0.7	387	56	38	1.2	979	2
RR-97 353-01	0.8	496	108	51	1.2	1020	8
RR-97 353-02	0.7	524	87	77	1.5	1000	7
RR-97 353-03	0.4	410	62	57	1.2	1070	8
RR-97 353-04	-0.2	150	22	23	1.3	800	11
RR-97 353-05	0.3	375	78	25	0.8	805	7
RR-97 353-06	0.5	512	64	47	1.2	1700	12
RR-97 354-01	0.7	456	71	63	1.4	988	9
RR-97 355-01	1.6	731	106	49	1.4	921	-2
RR-97 356-01	0.6	521	75	58	0.8	4370	27
RR-97 357-01	0.3	248	59	29	1.2	1470	8
RR-97 358-01	0.3	176	39	15	0.7	590	6
RR-97 358-02	0.2	76	22	12	0.5	480	5
RR-97 359-01	0.8	377	85	113	0.8	1040	13
RR-97 359-02	1.4	209	49	32	1.0	784	14
RR-97 359-03	0.7	186	59	21	1.0	834	10
RR-97 359-04	0.8	1130	72	141	1.2	1260	19
RR-97 360-01	0.7	457	76	58	1.8	2040	8
RR-97 360-02	1.1	643	74	48	1.1	2470	7
RR-97 360-03	0.9	508	75	49	1.3	1630	7
RR-97 360-04	0.6	1190	65	37	1.2	1540	9
RR-97 360-05	1.7	2140	121	139	2.0	5490	-2
RR-97 360-06	1.2	1190	106	78	1.5	4750	5
RR-97 360-07	1.2	757	101	77	0.9	4920	-2
RR-97 361-01	0.9	689	108	90	1.7	1170	6
RR-97 361-02	0.7	189	46	15	0.6	1090	5
RR-97 361-03	0.3	174	37	17	-0.5	1080	10
RR-97 361-04	0.3	259	63	21	-0.5	2220	12
RR-97 361-05	108	825	50	64	6.7	6050	25
RR-97 361-06	9.6	443	82	31	1.8	3050	10
RR-97 361-07	0.8	415	32	6280	33.8	7950	19
RR-97 361-08	0.7	506	72	64	0.8	2320	10

Negative values indicate less than the detection limit

SAMPLE	Ag	Cu	Ni	Zn	Cd	Mn	Pb
	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RR-97 361-09	0.8	240	59	106	2.4	2220	8
RR-97 361-10	0.5	273	62	27	0.9	1710	7
RR-97 361-11	0.7	269	56	44	1.7	5170	16
RR-97 362-01	1.2	313	67	78	1.2	1210	8
RR-97 362-02	0.4	278	56	23	1.1	1180	7
RR-97 362-03	0.5	201	50	51	1.2	916	13
RR-97 362-04	0.4	203	60	31	1.2	743	8
RR-97 362-05	0.5	229	55	28	1.0	758	7
RR-97 362-06	0.7	279	57	47	1.0	946	11
RR-97 362-07	0.4	194	57	31	1.7	930	5
RR-97 362-08	0.5	255	61	22	0.6	1410	9
RR-97 362-09	1.1	388	78	34	1.4	2000	8
RR-97 362-10	0.7	229	54	32	1.2	891	6
RR-97 362-11	0.4	204	52	14	0.9	1910	7
RR-97 363-01	0.4	200	45	24	1.3	5010	12

Negative values indicate less than the detection limit

SAMPLE	Ag	Cd	Cu	Mn	Ni	Pb	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RR-97 362-04	0.3	210	51	45	1.3	430	5
RR-97 362-05	0.7	426	54	30	1.1	1080	7
RR-97 362-06	0.3	244	75	24	1.2	953	6
RR-97 362-07	0.5	208	52	33	2.5	697	3
RR-97 362-08	0.6	499	54	20	2.0	1610	6
RR-97 362-09	1.2	493	66	57	1.1	1180	6
RR-97 362-10	0.4	243	53	47	1.2	687	4
RR-97 362-11	0.5	252	52	93	1.4	1060	6
RR-97 363-01	0.6	796	48	33	0.9	5680	9
RR-97 363-02	0.5	-0.5	142	878	37	15	39
RR-97 363-03	0.4	0.7	188	1370	64	10	34
RR-97 363-04	0.6	0.8	220	1350	44	13	57
RR-97 363-05	0.9	-0.5	256	6590	54	26	38
RR-97 363-06	0.2	0.6	205	14700	26	48	35
RR-97 364-01	5.4	4.4	665	4690	115	36	443
RR-97 364-02	3.3	3.1	611	3840	126	34	298
RR-97 364-03	3.3	3.1	2640	4320	123	26	269
RR-97 364-04	5.5	3.6	1270	4270	129	39	398
RR-97 364-05	4.2	2.9	705	4660	120	32	281
RR-97 364-06	3.4	4.1	1800	4500	116	41	397
RR-97 365-01	5.1	3.9	466	1780	107	67	360
RR-97 365-02	5.9	5.9	488	2020	111	47	670
RR-97 365-03	3.3	4.6	513	1900	108	36	557
RR-97 365-04	5.2	4.1	472	2150	111	45	448
RR-97 365-05	5.1	6.9	541	4290	103	33	613
RR-97 365-06	5.7	6.5	597	2990	121	43	845
RR-97 365-07	2.3	3.4	363	1690	68	17	384
RR-97 365-08	3.5	4.6	430	2370	94	28	449
RR-97 366-01	11.9	5.9	432	2570	115	60	562
RR-97 366-02	4.4	4.2	528	2900	118	65	438
RR-97 366-03	4.3	4.4	526	2680	110	49	445
RR-97 366-04	5.1	6.8	734	3830	117	65	601
RR-97 366-05	4.3	4.2	669	4380	110	35	399
RR-97 367-01	1.1	1.5	528	2300	89	8	112
RR-97 368-01	0.9	1.4	1940	3700	69	6	48
RR-97 369-01	1.2	2.7	1070	6830	97	27	105
RR-97 369-02	1.6	2.2	2100	12600	108	16	80
RR-97 369-03	0.9	1.0	1070	4750	94	12	62
RR-97 369-04	0.6	1.6	518	2640	66	9	97

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Negative values indicate less than the detection limit

SAMPLE	Ag	Cd	Cu	Mn	Ni	Pb	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RR-97 369-05	0.8	1.8	788	6080	66	14	75
RR-97 369-06	0.7	1.3	698	4600	65	12	90
RR-97 369-07	0.8	1.6	1090	6790	131	13	67
RR-97 369-08	1.4	3.3	2440	11300	102	31	111
RR-97 369-09	0.8	2.9	2410	14000	88	29	146
RR-97 369-10	1.1	1.6	1850	26900	92	19	157
RR-97 370-01	1.4	2.9	1150	10700	93	20	203
RR-97 370-02	1.6	7.7	1330	26000	103	19	40
RR-97 371-01	1.6	2.5	4470	10500	114	50	151
RR-97 372-01	1.0	2.7	2720	15600	129	38	172
RR-97 373-01	0.9	1.2	832	3320	71	10	63
RR-97 373-02	1.0	1.6	1050	3170	99	14	73
RR-97 373-03	0.7	2.0	525	2840	73	12	77
RR-97 374-01	0.8	-0.5	357	1370	63	12	77
RR-97 374-02	0.9	0.9	500	2270	78	14	61
RR-97 374-03	3.6	2.6	556	1570	111	9	40
RR-97 374-04	1.4	1.4	2620	2210	84	11	65
RR-97 375-01	1.1	1.2	861	2230	108	11	146
RR-97 387-01	2.3	2.3	1590	5270	97	24	175
RR-97 387-02	2.2	1.5	4460	3490	78	21	147
RR-97 387-03	2.1	2.7	991	4850	95	25	195
RR-97 387-04	2.0	2.2	2350	5410	110	27	115
RR-97 387-05	1.7	2.4	1180	3650	87	21	164
RR-97 387-06	2.3	2.2	1290	3670	108	22	138
RR-97 387-07	0.7	0.8	406	1310	69	13	47
RR-97 387-08	3.4	1.7	672	7240	148	47	78
RR-97 388-01	1.6	2.8	1510	8220	104	29	124
RR-97 388-02	0.6	0.7	281	2010	43	15	51
RR-97 388-03	0.5	0.5	120	894	47	13	32
RR-97 388-04	0.5	0.8	56	976	37	11	42
RR-97 388-05	0.5	0.9	157	1820	51	18	50
RR-97 389-01	3.3	2.9	863	6770	122	29	232
RR-97 389-02	2.4	3.1	1820	5910	99	33	248
RR-97 389-03	0.7	1.1	283	918	65	8	41
RR-97 389-04	1.7	2.2	832	4060	80	37	87
RR-97 389-05	0.8	3.2	367	7030	74	49	83
RR-97 390-01	1.3	3.7	1010	8450	94	29	171
RR-97 390-02	3.1	5.0	2630	9650	117	34	222
RR-97 390-03	4.1	2.7	4770	6410	88	30	167
RR-97 390-04	2.8	2.8	3320	7500	121	27	149
RR-97 390-05	2.6	3.2	817	5760	96	33	207
RR-97 390-06	3.8	5.5	1440	4290	123	49	213
RR-97 390-07	0.7	1.1	216	853	47	10	39
RR-97 390-08	0.8	1.4	374	3150	64	19	42
RR-97 390-09	0.8	1.0	309	4480	62	21	45

Negative values indicate less than the detection limit

SAMPLE	Ag	Cd	Cu	Mn	Ni	Pb	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RR-97 390-10	1.2	1.3	379	6050	74	22	83
RR-97 390-11	1.3	2.1	359	7460	77	23	98
RR-97 391-01	0.6	2.1	317	3090	66	9	44
RR-97 391-02	0.7	1.5	226	1860	69	12	31
RR-97 391-03	1.0	1.7	239	1200	73	9	34
RR-97 391-04	0.7	1.9	219	1740	73	8	38
RR-97 391-05	1.0	1.8	332	4020	75	12	55
RR-97 392-01	1.3	1.7	774	8010	77	22	126
RR-97 393-01	1.7	3.0	246	2160	97	73	429
RR-97 393-02	1.1	2.1	513	12300	47	32	78
RR-97 393-03	1.2	3.0	970	25000	63	59	208
RR-97 393-04	1.6	1.7	318	1580	101	52	100
RR-97 394-01	4.7	17.4	1360	4780	111	42	370
RR-97 394-02	3.8	4.4	1450	6540	110	45	382
RR-97 394-03	4.8	5.7	1900	5120	138	59	458
RR-97 396-01	2.2	6.4	924	7330	115	33	240
RR-97 396-02	2.1	2.1	844	12300	95	38	162
RR-97 376-01	0.8	1.6	263	1970	96	14	47
RR-97 376-02	1.0	1.3	208	1410	123	14	44
RR-97 376-03	1.4	3.8	704	2020	236	30	58
RR-97 376-04	0.8	2.1	240	1520	142	15	47
RR-97 376-05	1.1	6.2	285	1360	161	16	44
RR-97 376-06	1.0	4.0	251	1370	131	21	56

Negative values indicate less than the detection limit

SAMPLE	Ag	Cu	Ni	Zn	Cd	Mn	Pb
	ppm	ppm	ppm	ppm	ppm	ppm	ppm
436-01	1.5	126	87	302	1.9	1660	44
436-02	1.5	121	99	158	0.7	1620	47
436-03	3.4	122	116	146	2.2	1160	45
436-04	1.4	122	90	185	1.4	1160	47
436-05	1.4	113	89	155	0.8	1330	41
437-01	1.2	187	99	157	0.9	1160	41
438-01	2.5	113	85	269	1.2	1360	57
438-02	3.3	108	83	282	2.0	1490	50
438-03	2.1	130	85	582	1.9	1330	42
439-01	1.8	283	115	133	1.7	1140	35
439-02	1.3	294	74	198	1.4	1080	19
439-03	1.0	352	87	174	1.5	1080	29
439-04	0.2	175	55	55	0.6	866	19
439-05	1.1	203	71	84	1.0	1010	18
441-01	1.7	542	123	168	4.7	984	35
442-01	0.8	434	152	84	0.7	1040	24
443-01	2.0	294	101	117	1.4	742	31
443-02	2.2	346	96	150	2.2	821	31
443-03	3.4	231	95	119	0.8	962	34
443-04	2.1	195	91	104	0.8	762	28
443-05	1.6	128	72	124	0.9	964	14
443-06	2.2	205	88	203	2.0	1100	25
443-07	2.0	156	84	117	1.3	883	25
444-01	0.7	522	84	80	1.1	3060	14
444-02	0.6	4130	63	84	2.4	6440	17
445-01	0.3	745	69	72	1.3	2510	5
446-01	0.8	634	54	65	0.6	3160	10

Negative values indicate less than the detection limit

SAMPLE	Ag	Cu	Ni	Zn	Cd	Mn	Pb
	ppm	ppm	ppm	ppm	ppm	ppm	ppm
384-03	2.7	334	110	224	2.2	1320	45
384-04	0.2	180	83	58	1.9	967	18
384-05	0.3	180	90	95	1.1	851	20
385-01	1.9	617	98	134	1.4	1400	25
385-02	1.4	259	79	113	1.1	1180	25
385-03	1.5	346	113	137	1.7	1190	37
385-04	1.3	229	93	189	1.1	1580	26
385-05	2.2	282	110	230	2.0	1770	31
385-06	2.3	380	104	229	1.7	1640	29
385-07	2.7	392	102	240	1.8	1560	31
385-08	3.3	338	106	278	1.8	1450	33
385-09	1.2	253	90	90	0.8	1060	22
385-10	0.5	385	118	85	1.1	1010	22
385-11	0.4	284	82	54	1.4	936	21
385-12	0.9	683	276	40	1.6	1270	44
386-01	4.0	290	129	128	1.2	1410	33
386-02	1.5	187	132	104	1.8	1410	26
386-03	0.5	195	129	77	1.6	1270	22
386-04	0.5	184	105	61	1.3	1100	22
386-05	1.5	178	96	80	1.3	1150	19
386-06	1.1	396	82	146	1.4	1510	14
386-07	1.6	270	100	123	1.8	1650	22
386-08	0.9	226	90	89	1.3	2450	18
386-09	1.0	284	114	86	0.6	2610	25
386-10	0.4	161	91	50	0.8	890	21
386-11	0.5	202	77	51	1.6	1020	18
386-12	-0.2	79	67	34	-0.5	951	14
386-13	-0.2	138	74	30	0.7	936	16
386-14	-0.2	159	440	42	-0.5	1320	19
432-05	4.2	240	58	1700	10.1	269	37
433-01	4.3	383	92	586	3.3	285	52
433-02	5.3	474	68	638	3.8	180	53
433-03	5.9	445	56	1790	9.2	150	59
433-04	5.0	438	58	652	3.2	153	83
433A-01	2.6	239	52	403	2.3	110	39
434-01	5.5	306	86	1660	7.7	283	240
434-02	2.9	278	85	726	3.8	274	135
434-03	3.6	308	88	839	4.2	291	138
435-01	6.5	334	87	1440	7.7	212	467

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ICP Technical Manager

Negative values indicate less than the detection limit

SAMPLE	Ag	Cd	Cu	Mn	Ni	Pb	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RR-97 397-01	2.1	3.7	491	1260	84	30	232
RR-97 397-02	4.4	4.6	370	1930	142	62	549
RR-97 397-03	8.1	11.8	386	6810	127	60	540
RR-97 398-01	4.7	4.7	520	6060	132	50	672
RR-97 398-02	5.2	4.7	380	1790	136	49	526
RR-97 398-03	13.3	4.2	382	1510	149	40	442
RR-97 398-04	4.9	5.4	369	1570	143	55	543
RR-97 398-05	4.0	3.9	723	2730	132	50	497
RR-97 399-01	4.0	3.7	388	9360	117	49	430
RR-97 399-02	7.2	4.3	395	9450	125	41	485
RR-97 399-03	3.5	5.4	373	9280	124	43	442
RR-97 400-01	3.1	4.3	573	6090	106	36	510
RR-97 401-01	2.5	5.5	391	1160	89	30	502
RR-97 401-02	2.4	6.2	463	1270	88	39	555
RR-97 401-03	4.2	4.3	751	6790	132	46	556
RR-97 401-04	6.7	3.7	855	5230	104	28	439
RR-97 401-05	2.1	4.4	756	9250	104	26	469
RR-97 401-06	2.7	3.8	450	8180	112	38	378
RR-97 402-01	3.7	6.6	930	3330	147	50	568
RR-97 402-02	2.6	4.1	848	4440	116	44	352
RR-97 402-03	2.8	7.0	809	5180	142	34	294
RR-97 402-04	4.6	3.1	706	4350	121	20	262
RR-97 402-05	5.4	6.6	1110	3260	149	39	268
RR-97 402-06	4.2	3.9	1390	2950	156	39	373
RR-97 403-01	4.5	6.1	935	3360	152	48	513
RR-97 403-02	7.5	6.0	515	3680	138	55	583
RR-97 403-03	3.8	5.1	525	2600	134	40	356
RR-97 404-01	2.1	3.9	446	2750	89	24	403
RR-97 404-02	4.3	3.6	503	2960	126	35	386
RR-97 404-03	4.3	5.8	573	1750	133	50	494
RR-97 404-04	4.0	5.5	558	2340	122	42	434
RR-97 404-05	5.1	4.2	770	1500	166	51	268
RR-97 405-01	2.9	4.0	952	3560	95	28	383
RR-97 406-01	7.9	7.1	789	2390	139	53	825
RR-97 407-01	2.4	3.0	708	7460	116	35	331
RR-97 407-02	5.2	3.7	1470	8510	113	37	293
RR-97 408-03	6.4	5.5	601	4180	135	94	475
RR-97 408-01	3.0	4.1	599	1820	112	35	169
RR-97 408-02	2.3	3.0	196	1580	109	56	172

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ICP Technical Manager

Negative values indicate less than the detection limit

SAMPLE	Ag	Cd	Cu	Mn	Ni	Pb	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RR-97 408-03	1.8	2.3	180	1730	100	38	208
RR-97 408-04	2.9	2.5	305	1900	115	31	208
RR-97 408-05	1.5	3.1	116	1780	88	47	116
RR-97 408-06	1.7	2.8	144	1650	103	42	144
RR-97 408-07	1.8	3.6	132	1330	113	37	177
RR-97 376-07	0.6	2.1	799	1900	190	23	57
RR-97 376-08	0.2	2.2	135	873	122	15	25
RR-97 376-09	0.3	1.0	243	3410	94	16	40
RR-97 376-10	0.3	2.3	249	4600	162	26	53
RR-97 376-11	0.3	2.2	258	6680	150	23	108
RR-97 376-12	1.0	1.8	372	11800	129	41	96
RR-97 376-13	0.4	2.2	243	3720	159	20	52
RR-97 376-14	0.3	3.3	291	2590	232	34	55
RR-97 377-01	0.4	2.1	125	825	98	8	42
RR-97 378-01	0.5	2.7	1090	1120	220	50	96
RR-97 379-01	0.9	3.2	300	1890	138	15	96
RR-97 379-02	0.5	3.0	222	993	156	20	52
RR-97 379-03	0.5	2.1	195	883	116	13	44
RR-97 379-04	0.5	2.8	280	1410	122	19	53
RR-97 379-05	0.3	2.2	170	631	109	23	28
RR-97 380-01	0.4	2.3	311	640	150	33	35
RR-97 380-02	0.5	2.6	393	442	127	26	32
RR-97 380-03	0.3	1.8	294	801	151	31	30
RR-97 380-04	0.5	3.6	639	723	182	27	35
RR-97 380-05	0.3	2.1	379	999	207	40	54
RR-97 380-06	0.5	3.0	464	1830	221	33	59
RR-97 381-01	0.8	2.4	830	3280	247	53	77
RR-97 381-02	1.3	3.3	517	2180	217	46	99
RR-97 382-01	1.1	2.8	741	6730	550	33	203
RR-97 382-02	1.5	3.0	744	6650	623	37	181
RR-97 382-03	0.9	2.9	612	3200	683	31	246
RR-97 382-04	0.6	2.7	432	4000	868	33	309
RR-97 383-01	1.4	3.2	954	1350	223	38	162
RR-97 383-02	2.3	3.0	969	986	225	42	195

Negative values indicate less than the detection limit

SAMPLE	Ag	Cu	Ni	Zn	Cd	Mn	Pb
	ppm	ppm	ppm	ppm	ppm	ppm	ppm
384-01	2.1	396	113	119	1.9	1310	27
384-02	1.6	232	104	175	1.6	1430	28
409-01	7.9	436	102	481	3.6	1800	53
409-02	7.2	562	102	603	4.8	3050	73
410-01	3.3	570	118	726	5.7	1310	60
410-02	2.5	487	94	492	3.0	1810	32
410-03	3.6	582	106	530	4.9	2320	59
410-04	2.6	491	95	504	4.2	2150	35
410-05	5.4	574	110	489	5.5	1890	64
410-06	5.6	472	97	530	4.3	1830	41
410-07	5.0	522	100	698	5.4	1930	41
410-08	5.6	612	101	557	5.4	1790	38
410-09	1.6	289	73	360	2.3	2460	20
410-10	1.7	382	70	461	3.4	2890	23
410-11	2.0	395	83	398	3.5	2430	29
410-12	3.2	519	115	558	4.4	2010	42
411-01	3.3	613	115	286	3.2	1670	59
411-02	3.5	513	115	400	4.7	1280	79
411-03	5.7	551	105	423	4.3	1710	57
411-04	4.3	639	97	490	4.9	1880	53
411-05	5.8	629	104	493	4.4	1970	76
411-06	3.5	929	114	478	5.8	2840	61
411-07	4.1	649	115	610	6.2	2680	67
411-08	5.0	1160	124	617	5.9	3490	87
411-09	4.5	698	114	651	6.8	3370	100
411-10	6.0	1430	107	863	7.9	3060	99
411-11	5.5	1110	107	726	5.9	4140	69
411-12	3.5	1210	107	502	4.3	4720	59
411-13	4.3	924	112	370	4.8	3450	42
412-01	5.0	648	110	466	4.9	1500	58
412-02	3.7	530	103	612	5.5	2710	50
412-03	5.3	576	105	573	5.9	2170	56
412-04	3.5	406	99	598	5.3	1930	64
412-05	4.3	525	99	633	5.8	1970	70
412-06	4.5	484	105	615	6.7	2950	79
412-07	3.9	487	107	686	6.3	2850	64
412-08	5.4	665	111	551	5.7	3900	60
412-09	2.9	576	110	462	5.0	5250	59
413-01	1.3	1260	337	310	6.7	3340	-2

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ICP Technical Manager

Negative values indicate less than the detection limit

SAMPLE	Ag	Cu	Ni	Zn	Cd	Mn	Pb
	ppm	ppm	ppm	ppm	ppm	ppm	ppm
414-01	0.8	1070	103	196	1.9	2130	10
414-02	0.4	873	108	208	2.3	4740	17
414-03	0.5	791	87	228	2.8	4340	14
414-04	0.5	821	93	232	1.3	3820	9
414-05	0.5	538	78	209	2.2	3460	4
414-06	0.5	449	72	179	1.4	3200	9
414-07	0.6	618	73	179	1.6	3080	10
414-08	0.3	498	77	196	1.6	3350	10
414-09	0.5	719	102	187	0.8	2920	8
414-10	1.5	581	80	126	1.8	2410	9
414-11	0.7	842	66	135	2.8	3770	10
415-01	1.0	696	75	283	2.7	3740	12
415-02	2.1	770	98	288	3.6	3510	30
415-03	4.7	590	101	514	6.4	2900	76
415-04	4.1	690	105	459	5.8	1960	57
415-05	2.9	796	106	430	5.9	2450	43
416-01	4.0	426	96	472	4.6	1440	60
416-02	4.2	486	95	507	4.6	1980	42
416-03	9.2	538	96	477	5.1	2150	83
416-04	4.1	709	109	404	5.5	2030	48
416-05	4.0	444	112	378	6.3	979	51
416-06	5.0	590	102	389	5.6	1820	54
416-07	2.3	851	201	647	5.6	3680	47
416-08	2.0	577	224	985	5.5	1880	58
416-09	2.8	627	237	767	5.0	1460	55
417-01	3.2	492	97	645	6.3	2640	32
417-02	4.0	383	91	521	4.3	1570	30

Negative values indicate less than the detection limit

SAMPLE	Ag	Cd	Cu	Mn	Ni	Pb	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RR97 418-01	0.8	1.6	313	867	42	5	96
RR97 418-02	2.3	3.1	545	2690	75	4	249
RR97 418-03	4.7	3.8	549	3200	80	7	273
RR97 418-04	3.4	3.3	554	3440	72	14	375
RR97 418-05	3.9	3.6	669	3970	92	51	289
RR97 418-06	1.7	2.9	842	5170	65	18	472
RR97 419-01	3.2	4.0	370	1540	75	19	624
RR97 419-02	2.5	3.5	510	9980	77	20	430
RR97 419-03	7.1	20.6	344	8210	117	16	404
RR97 420-01	2.9	2.9	350	1030	73	19	346
RR97 420-02	2.1	4.8	352	1190	53	14	335
RR97 420-03	3.5	3.8	400	1370	65	18	434
RR97 420-04	7.5	3.2	1440	2100	97	27	393
RR97 421-01	1.7	8.9	326	1080	65	12	313
RR97 421-02	2.8	4.1	403	1360	88	17	241
RR97 421-03	3.8	3.4	416	1350	99	47	309
RR97 421-04	5.7	5.1	534	2020	146	40	456
RR97 421-05	4.6	6.9	566	2030	107	35	707
RR97 421-06	6.8	4.1	447	2040	107	57	465
RR97 421-07	5.0	4.4	406	1790	92	51	423
RR97 422-01	3.2	4.3	352	2330	72	20	436
RR97 423-01	3.8	6.5	444	1050	92	26	845
RR97 423-02	2.9	4.6	397	710	89	25	570
RR97 423-03	2.8	3.3	356	735	92	21	286
RR97 423-04	3.3	3.9	352	1130	81	17	424
RR97 423-05	2.8	3.5	413	1740	79	13	349
RR97 423-06	2.7	3.4	420	1590	85	23	276
RR97 423-07	6.2	5.3	495	1150	98	67	442
RR97 423-08	7.0	3.5	392	7820	93	41	462
RR97 424-01	3.8	4.5	483	3450	83	15	147
RR97 424-02	3.8	1.7	471	6520	80	22	214
RR97 424-03	2.7	2.5	347	6390	64	31	196
RR97 425-01	4.7	6.7	1070	1870	99	23	434
RR97 425-02	4.6	6.0	765	1760	125	20	335
RR97 425-03	3.8	5.4	477	3310	98	21	533
RR97 426-01	2.2	1.3	470	1500	91	14	81
RR97 427-01	3.9	3.3	536	3280	88	29	253
RR97 428-01	3.0	3.3	597	2110	221	23	122
RR97 429-01	2.2	2.7	435	2550	95	17	216

Adrienne I. Rittau, B.Sc., C.Chem
ICP Technical Manager

Negative values indicate less than the detection limit

SAMPLE	Ag	Cd	Cu	Mn	Ni	Pb	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RR97 429-02	2.5	1.7	417	1400	86	18	145
RR97 429-03	3.0	6.7	1020	1530	115	14	455
RR97 429-04	16.1	36.2	812	2310	119	58	5760
RR97 430-01	4.1	2.8	536	715	107	24	309
RR97 430-02	5.8	3.0	965	274	117	19	158
RR97 431-01	4.9	4.1	304	1220	110	40	468
RR97 431-02	5.4	5.1	289	1270	103	45	556
RR97 432-01	3.1	3.0	275	564	72	47	388
RR97 432-02	16.1	6.8	214	185	76	32	1230
RR97 432-03	6.0	5.7	217	251	82	33	792
RR97 432-04	7.7	8.5	249	256	82	34	1490

Negative values indicate less than the detection limit

SAMPLE	Ag	Cu	Ni	Zn	Cd	Mn	Pb
	ppm	ppm	ppm	ppm	ppm	ppm	ppm
446-02	1.0	1350	93	79	1.4	3410	13
446-03	0.5	691	80	103	0.9	5850	15
447-01	1.4	1490	82	138	2.1	6890	24
447-02	0.7	1240	78	139	0.6	6840	24
448-01	0.6	973	68	94	1.5	4940	18
448-02	0.2	856	77	128	0.8	8700	19
448-03	0.5	915	79	130	1.1	6140	22
448-04	0.3	1770	94	218	5.4	8290	39
449-01	0.5	1250	79	114	0.6	7040	21
449-02	2.0	1750	79	122	1.5	6710	24
449-03	0.5	1410	86	166	2.1	6540	19
449-04	6.0	1800	107	136	1.4	5760	23
449-05	0.5	1920	89	124	2.5	6320	19
450-01	0.4	1090	86	111	1.4	6370	23
450-02	0.5	872	79	86	1.0	4820	17
450-03	1.4	1330	54	69	-0.5	10400	21
451-01	0.5	1010	70	132	1.1	9380	24
451-02	0.4	1180	80	112	1.7	8150	22
451-03	0.2	375	57	57	1.1	2440	10
451-04	0.3	486	77	49	-0.5	2750	16
452-01	1.0	1790	74	125	2.3	6500	26
452-02	0.8	1220	70	75	1.0	5090	16
452-03	0.5	1160	88	108	0.8	9010	122
453-01	0.6	2490	118	199	5.4	8980	40
453-02	1.0	866	94	93	1.1	5030	17
453-03	0.8	3080	98	122	1.2	5600	20
453-04	1.1	1230	97	91	2.2	2860	24
453-05	0.4	4580	76	141	0.5	12300	28
454-01	3.4	7510	131	111	1.3	5230	129

Adrienne I. Rittau, B.Sc., C.Chem
ICP Technical Manager

Negative values indicate less than the detection limit

APPENDIX V

DRILL HOLE SECTIONS

Rainy River Project
Work Report
1997 Reverse Circulation Drill Data
Paul Jones, Project Geologist
August, 1997

LEGEND

Quaternary Stratigraphy

5 HOLOCENE
Organics (peat)
PLEISTOCENE
LATE WISCONSINAN
4 Keewatin Till
3 Lake Agassiz Sediments
3c – glaciolacustrine clay member
3b – glaciolacustrine sand member
3a – ice-contact member
2 Embryonic (Labradorean) Lake Agassiz Sediments
2c – glaciolacustrine clay member
2b – glaciolacustrine sand member
2a – ice-contact member
1 Labradorean Till

Sediment Varieties

P Peat
C clay,silt
S Sand
G Gravel
ST Sand-silt till, clay subordinate
CT Clay till

Symbols

Quaternary/bedrock unconformity
Interglacial unconformity
Quaternary unit boundary
Quaternary subunit boundary

Geochemistry

ST Sand-silt till interval with 5 gold grains, 303 ppb Au, -0.2 ppm Ag, 190 ppm As, 63 ppm Cu, 296 ppm Zn and 84 ppm Cd in the nonmagnetic mineral fraction (SG > 3.3); "-" = less than detection limit; "na" = not analyzed

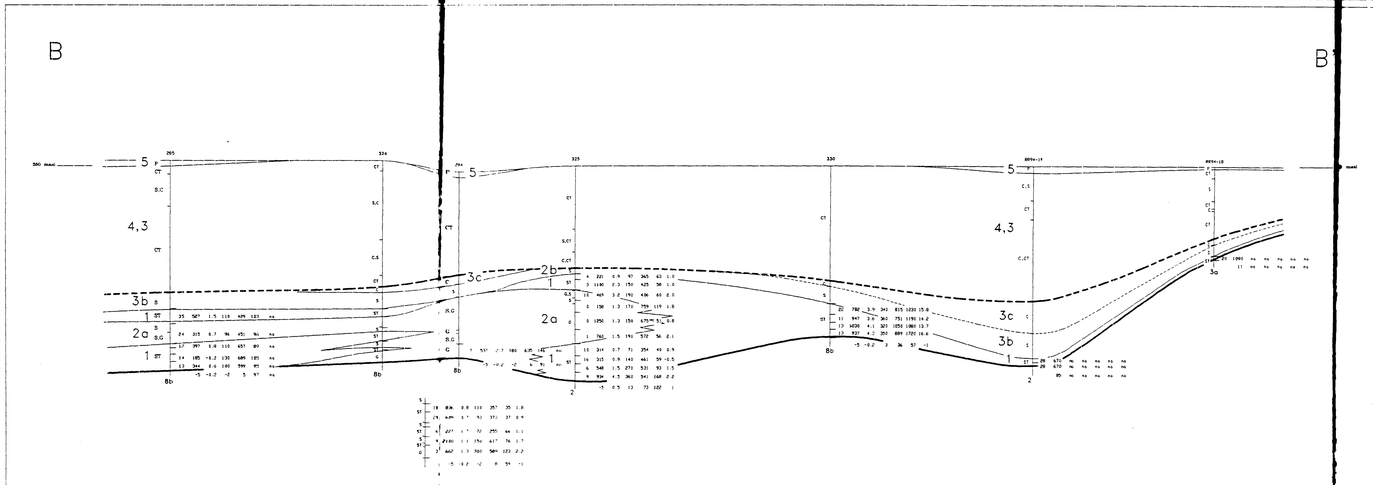
Bedrock Lithologies

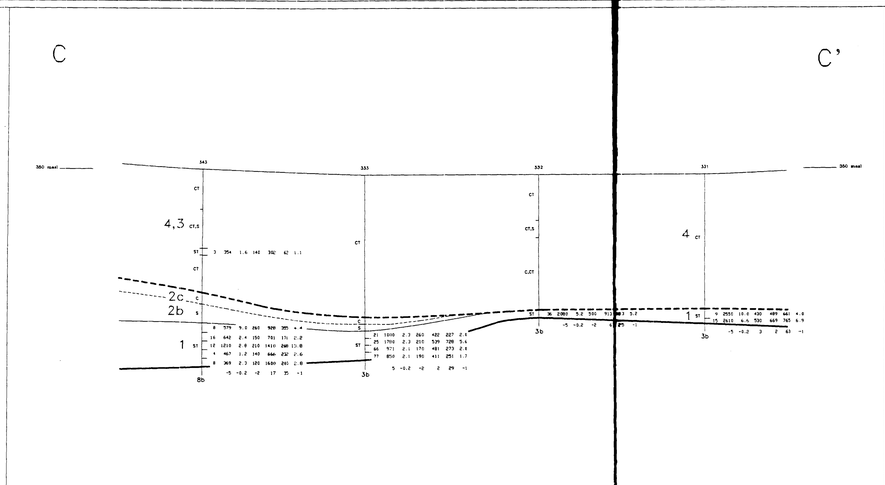
MESOZOIC/PRECAMBRIAN
Saprolite
PROTEROZOIC
Diabase
ARCHEAN
Plutonic Rocks
Monzonite, granodiorite
Quartz monzonite
Trondhjemite and associated pegmatite
Tonalite
Diorite
Subvolcanic Intrusives and Dykes
8a – quartz porphyry
8b – quartz-feldspar porphyry
8c – feldspar porphyry
Gabbro
Iron formation, chert
Clastic sedimentary rocks
5a – greywacke
5b – siltstone
5c – argillite
Felsic volcanics and volcaniclastics
4 – undifferentiated
4a – rhyolite
4b – felsic tuff
Intermediate volcanics and volcaniclastics
3 – undifferentiated
3a – andesite
3b – dacite
3c – intermediate tuff
Basalt
Komatiite

Scale

Horizontal = 1:2,500
Vertical = 1:400

NUINSCO RESOURCES LIMITED
RAINY RIVER PROJECT, ONTARIO
FIGURE 7
REVERSE CIRCULATION DRILL SECTION
A–A'
OVERBURDEN DRILLING MANAGEMENT LIMITED
JULY, 1997





LEGEND

Quaternary Stratigraphy

HOLOCENE
5 Organics (peat)
PLEISTOCENE
LATE WISCONSINAN
Keewatin Till
4 Lake Agassiz Sediments
3 Lake Agassiz Sediments
3a – glaciolacustrine clay member
3b – glaciolacustrine sand member
3c – ice-contact member
Early Wisconsinan (Labradorean) Lake Agassiz Sediments
2 Lake Agassiz Sediments
2a – glaciolacustrine clay member
2b – glaciolacustrine sand member
2c – ice-contact member
Labradorean Till
1

Sediment Varieties

P Peat
C clay,silt
S Sand
G Gravel
ST Sand–silt till, clay subordinate
CT Clay till

Symbols

Quaternary/bedrock unconformity
Interglacial unconformity
Quaternary unit boundary
Quaternary subunit boundary

Geochemistry

Sand–silt till interval with 5 gold grains, 303 ppb Au, <0.2 ppm Ag, 190 ppm As, 63 ppm Cu, 296 ppm Zn and 84 ppm Ce in the nonmagnetic mineral fraction (SG @ 3.3); n.a. = less than detection limit; na = not analysed

Bedrock Lithologies

MESOZOIC/PRECAMBRIAN
Sapcrolite
PROTEROZOIC
Diabase
ARCHEAN
Plutonic Rocks
Monzonite, granodiorite
Quartz monzonite
Quartz-rich and associated pegmatite
Tonalite
Diorite
Subvolcanic Intrusives and Dykes
Bb – quartz porphyry
Bc – feldspar porphyry
Gabbro
Iron formation, chert
Clastic sedimentary rocks
Sa – greywacke
Sb – siltstone
Sc – argillite
Felsic volcanics and volcaniclastics
A – undifferentiated
Aa – rhyolite
Ab – felsic tuff
Intermediate volcanics and volcaniclastics
B – undifferentiated
Ba – andesite
Bb – dacite
Bc – intermediate tuff
Basalt
Komatiite

Scale

Horizontal = 1:2,500
Vertical = 1:400

NUINSCO RESOURCES LIMITED
RAINY RIVER PROJECT, ONTARIO
FIGURE 8
REVERSE CIRCULATION DRILL SECTIONS
B–B' AND C–C'
OVERBURDEN DRILLING MANAGEMENT LIMITED
JULY, 1997


D
D'
350 masl
LEGEND
Quaternary Stratigraphy
HOLOCENE
5 Organics (peat)
PLEISTOCENE
LATE WISCONSINAN
4 Keewatin Till
3 Lake Agassiz Sediments
3c - glaciolacustrine clay member
3b - glaciolacustrine sand member
3a - ice-contact member
2 Embryonic (Labradorean) Lake Agassiz Sediments
2c - glaciolacustrine clay member
2b - glaciolacustrine sand member
2a - ice-contact member
1 Labradorean Till
Sediment Varieties
P Peat
C clay, silt
S Sand
G Gravel
ST Sand-silt till, clay subordinate
CT Clay till
Symbols
Quaternary/bedrock unconformity
Interglacial unconformity
Quaternary unit boundary
Quaternary subunit boundary
Geochemistry
Sand-silt till interval with 5 gold grains, 303 ppb Au, -0.2 ppm Ag, 190 ppm As, 63 ppm Cu, 296 ppm Zn and 84 ppm Cd in the nonmagnetic mineral fraction (SG > 3.3); "-" = less than detection limit; "na" = not analyzed
Bedrock Lithologies
MESOZOIC/PRECAMBRIAN
15 Saprolite
PROTEROZOIC
14 Diabase
ARCHEAN
Plutonic Rocks
13 Monzonite, granodiorite
12 Quartz monzonite
11 Trondhjemite and associated pegmatite
10 Tonalite
9 Diorite
8 Subvolcanic Intrusives and Dykes
8a - quartz porphyry
8b - quartz-feldspar porphyry
8c - feldspar porphyry
7 Gabbro
6 Iron formation, chert
5 Clastic sedimentary rocks
5a - greywacke
5b - siltstone
5c - argillite
4 Felsic volcanics and volcaniclastics
4 - undifferentiated
4a - rhyolite
4b - felsic tuff
3 Intermediate volcanics and volcaniclastics
3 - undifferentiated
3a - andesite
3b - dacite
3c - intermediate tuff
2 Basalt
1 Komatiite
Scale
Horizontal = 1:2,500
Vertical = 1:400
NUINSCO RESOURCES LIMITED
RAINY RIVER PROJECT, ONTARIO
FIGURE 9
REVERSE CIRCULATION DRILL SECTION
D-D'
OVERBURDEN DRILLING MANAGEMENT LIMITED
JULY, 1997

LEGEND

Quaternary Stratigraphy

	HOLOCENE
5	Organics (peat)
	PLEISTOCENE
	LATE WISCONSINAN
4	Keewatin Till
3	Lake Agassiz Sediments
	3c – glaciolacustrine clay member
	3b – glaciolacustrine sand member
	3a – ice-contact member
2	Embryonic (Labradorean) Lake Agassiz Sediments
	2c – glaciolacustrine clay member
	2b – glaciolacustrine sand member
	2a – ice-contact member
1	Labradorean Till

Sediment Varieties

P	Peat
C	clay,silt
S	Sand
G	Gravel
ST	Sand-silt till, clay subordinate
CT	Clay till

Symbols

- Quaternary/bedrock unconformity
- Interglacial unconformity
- Quaternary unit boundary
- Quaternary subunit boundary

Geochemistry

ST — Sand-silt till interval with 5 gold grains, 303 ppb Au, -0.2 ppm Ag, 190 ppm As, 63 ppm Cu, 296 ppm Zn and 84 ppm Cd in the nonmagnetic mineral fraction (SG > 3.3); "–" = *less than detection limit*; "*na*" = *not* analyzed

Bedrock Lithologies

	MESOZOIC/PRECAMBRIAN
15	Saprolite
	PROTEROZOIC
14	Diabase
	ARCHEAN
	Plutonic Rocks
13	Monzonite, granodiorite
12	Quartz monzonite
11	*Trondhjemite and associated pegmatite*
10	Tonalite
9	Diorite
8	Subvolcanic Intrusives and Dykes
	8a – quartz porphyry
	8b – quartz-feldspar porphyry
	8c – feldspar porphyry
7	Gabbro
6	Iron formation, chert
5	Clastic sedimentary rocks
	5a – greywacke
	5b – siltstone
	5c – argillite
4	Felsic volcanics and volcaniclastics
	4 – *undifferentiated*
	4a – rhyolite
	4b – felsic tuff
3	Intermediate volcanics and volcaniclastics
	3 – undifferentiated
	3a – andesite
	3b – dacite
	3c – intermediate tuff
2	Basalt
1	Komatiite

Scale

Horizontal = 1:2,500
Vertical = 1:400

NUINSCO RESOURCES LIMITED
RAINY RIVER PROJECT, ONTARIO
FIGURE 10
REVERSE CIRCULATION DRILL SECTIONS
E–E', F–F' AND G–G'

OVERBURDEN DRILLING MANAGEMENT LIMITED
JULY, 1997


H
H'
I
I'
LEGEND
Quaternary Stratigraphy
HOLOCENE
5 Organics (peat)
PLEISTOCENE
LATE WISCONSINAN
4 Keewatin Till
3 Lake Agassiz Sediments
3c – glaciolacustrine clay member
3b – glaciolacustrine sand member
3a – ice-contact member
2 Embryonic (Labradorean) Lake Agassiz Sediments
2c – glaciolacustrine clay member
2b – glaciolacustrine sand member
2a – ice-contact member
1 Labradorean Till
Sediment Varieties
P Peat
C clay, silt
S Sand
G Gravel
ST Sand-silt till, clay subordinate
CT Clay till
Symbols
Quaternary/bedrock unconformity
Interglacial unconformity
Quaternary unit boundary
Quaternary subunit boundary
Geochemistry
Sand-silt till interval with 5 gold grains, 303 ppb Au, –0.2 ppm Ag, 190 ppm As, 63 ppm Cu, 296 ppm Zn and 84 ppm Cd in the nonmagnetic mineral fraction (SG > 3.3); "–" = less than detection limit; "na" = not analyzed
Bedrock Lithologies
MESOZOIC/PRECAMBRIAN
15 Saprolite
PROTEROZOIC
14 Diabase
ARCHEAN
Plutonic Rocks
13 Monzonite, granodiorite
12 Quartz monzonite
11 Trondhjemite and associated pegmatite
10 Tonalite
9 Diorite
8 Subvolcanic Intrusives and Dykes
8a – quartz porphyry
8b – quartz-feldspar porphyry
8c – feldspar porphyry
7 Gabbro
6 Iron formation, chert
5 Clastic sedimentary rocks
5a – greywacke
5b – siltstone
5c – argillite
4 Felsic volcanics and volcaniclastics
4 – undifferentiated
4a – rhyolite
4b – felsic tuff
3 Intermediate volcanics and volcaniclastics
3 – undifferentiated
3a – andesite
3b – dacite
3c – intermediate tuff
2 Basalt
1 Komatiite
Scale
Horizontal = 1:2,500
Vertical = 1:400
NUINSCO RESOURCES LIMITED
RAINY RIVER PROJECT, ONTARIO
FIGURE 11
REVERSE CIRCULATION DRILL SECTIONS
H–H' AND I–I'
OVERBURDEN DRILLING MANAGEMENT LIMITED
JULY, 1997

LEGEND

Quaternary Stratigraphy

HOLOCENE
5 Organics (peat)
PLEISTOCENE
LATE WISCONSINAN
4 Keewatin Till
3 *Lake Agassiz Sediments*
3c – glaciolacustrine clay member
3b – glaciolacustrine sand member
3a – ice-contact member
2 Embryonic (Labradorean) Lake Agassiz Sediments
2c – glaciolacustrine clay member
2b – glaciolacustrine sand member
2a – ice-contact member
1 Labradorean Till

Sediment Varieties

P Peat
C clay,silt
S Sand
G Gravel
ST Sand-silt till, clay subordinate
CT Clay till

Symbols

Quaternary/bedrock unconformity
Interglacial unconformity
Quaternary unit boundary
Quaternary subunit boundary

Geochemistry

Sand-silt till interval with 5 gold grains, 303 ppb Au, -0.2 ppm Ag, 190 ppm As, 63 ppm Cu, 296 ppm Zn and 84 ppm Cd *in the nonmagnetic mineral fraction* (SG > 3.3); "-" = less than detection limit; "na" = not analyzed

Bedrock Lithologies

MESOZOIC/PRECAMBRIAN
Saprolite
PROTEROZOIC
Diabase
ARCHEAN
Plutonic Rocks
Monzonite, granodiorite
Quartz monzonite
Trondhjemite and associated pegmatite
Tonalite
Diorite
Subvolcanic Intrusives and Dykes
8a – quartz porphyry
8b – quartz-feldspar porphyry
8c – feldspar porphyry
Gabbro
Iron formation, chert
Clastic sedimentary rocks
5a – greywacke
5b – siltstone
5c – argillite
Felsic volcanics and volcaniclastics
4 – undifferentiated
4a – rhyolite
4b – felsic tuff
Intermediate volcanics and volcaniclastics
3 – undifferentiated
3a – andesite
3b – dacite
3c – intermediate tuff
Basalt
Komatiite

Scale

Horizontal = 1:2,500
Vertical = 1:400

NUINSCO RESOURCES LIMITED
RAINY RIVER PROJECT, ONTARIO
FIGURE 12
REVERSE CIRCULATION DRILL SECTIONS
J-J' AND K-K'
OVERBURDEN DRILLING MANAGEMENT LIMITED
JULY, 1997


L
L'
M
M'
350 masl
LEGEND
Quaternary Stratigraphy
HOLOCENE
5 Organics (peat)
PLEISTOCENE
LATE WISCONSINAN
4 Keewatin Till
3 Lake Agassiz Sediments
3c - glaciolacustrine clay member
3b - glaciolacustrine sand member
3a - ice-contact member
2 Embryonic (Labradorean) Lake Agassiz Sediments
2c - glaciolacustrine clay member
2b - glaciolacustrine sand member
2a - ice-contact member
1 Labradorean Till
Sediment Varieties
P Peat
C clay,silt
S Sand
G Gravel
ST Sand-silt till, clay subordinate
CT Clay till
Symbols
Quaternary/bedrock unconformity
Interglacial unconformity
Quaternary unit boundary
Quaternary subunit boundary
Geochemistry
ST
Sand-silt till interval with 5 gold grains, 303 ppb Au, -0.2 ppm Ag, 190 ppm As, 63 ppm Cu, 296 ppm Zn and 84 ppm Cd in the nonmagnetic mineral fraction (SG > 3.3); "-" = less than detection limit; "na" = not analyzed
Bedrock Lithologies
MESOZOIC/PRECAMBRIAN
15 Saprolite
PROTEROZOIC
14 Diabase
ARCHEAN
Plutonic Rocks
13 Monzonite, granodiorite
12 Quartz monzonite
11 Trondhjemite and associated pegmatite
10 Tonalite
9 Diorite
8 Subvolcanic Intrusives and Dykes
8a - quartz porphyry
8b - quartz-feldspar porphyry
8c - feldspar porphyry
7 Gabbro
6 Iron formation, chert
5 Clastic sedimentary rocks
5a - greywacke
5b - siltstone
5c - argillite
4 Felsic volcanics and volcaniclastics
4 - undifferentiated
4a - rhyolite
4b - felsic tuff
3 Intermediate volcanics and volcaniclastics
3 - undifferentiated
3a - andesite
3b - dacite
3c - intermediate tuff
2 Basalt
1 Komatiite
Scale
Horizontal = 1:2,500
Vertical = 1:400

NUINSCO RESOURCES LIMITED
RAINY RIVER PROJECT, ONTARIO
FIGURE 13
REVERSE CIRCULATION DRILL SECTIONS
L-L' AND M-M'
OVERBURDEN DRILLING MANAGEMENT LIMITED
JULY, 1997

NUINSCO RESOURCES LIMITED
RAINY RIVER PROJECT, ONTARIO
FIGURE 14
REVERSE CIRCULATION DRILL SECTIONS
N-N', O-O' AND P-P'
OVERBURDEN DRILLING MANAGEMENT LIMITED
JULY, 1997

LEGEND

Quaternary Stratigraphy

- [5] HOLOCENE — Organics (peat)
- PLEISTOCENE — *LATE WISCONSINAN*
- [4] Keewatin Till
- [3] Lake Agassiz Sediments
  - 3c – glaciolacustrine clay member
  - 3b – glaciolacustrine sand member
  - 3a – ice-contact member
- [2] Embryonic (Labradorean) Lake Agassiz Sediments
  - 2c – glaciolacustrine clay member
  - 2b – glaciolacustrine sand member
  - 2a – ice-contact member
- [1] Labradorean Till

Sediment Varieties

- P Peat
- C clay,silt
- S Sand
- G Gravel
- ST Sand–silt till, clay subordinate
- CT Clay till

Symbols

- Quaternary/bedrock unconformity
- Interglacial unconformity
- Quaternary unit boundary
- Quaternary subunit boundary

Geochemistry

ST — Sand–silt till interval with 5 gold grains, 303 ppb Au, –0.2 ppm Ag, 190 ppm As, 63 ppm Cu, 29? ppm Zn and 84 ppm Cd in the nonmagnetic mineral fraction (SG > 3.3); "–" = less than detection limit; "na" = not analyzed

Bedrock Lithologies

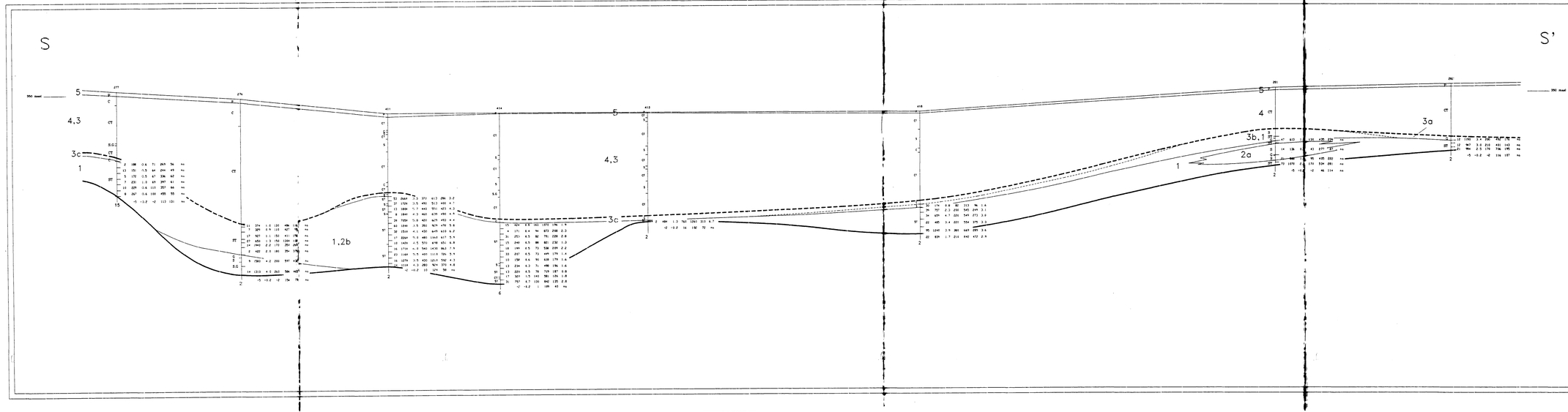
- MESOZOIC/PRECAMBRIAN
  - [15] Saprolite
- PROTEROZOIC
  - [14] Diabase
- ARCHEAN
  - Plutonic Rocks
    - [13] Monzonite, granodiorite
    - [12] Quartz monzonite
    - [11] Trondhjemite and associated pegmatite
    - [10] Tonalite
    - [9] Diorite
  - [8] Subvolcanic Intrusives and Dykes
    - 8a -- quartz porphyry
    - 8b -- quartz–feldspar porphyry
    - 8c -- feldspar porphyry
  - [7] Gabbro
  - [6] Iron formation, chert
  - [5] Clastic sedimentary rocks
    - 5a -- greywacke
    - 5b -- siltstone
    - 5c -- argillite
  - [4] Felsic volcanics and volcaniclastics
    - 4 -- undifferentiated
    - 4a -- rhyolite
    - 4b -- felsic tuff
  - [3] Intermediate volcanics and volcaniclastics
    - 3 -- undifferentiated
    - 3a -- andesite
    - 3b -- dacite
    - 3c – intermediate tuff
  - [2] Basalt
  - [1] Komatiite

Scale

Horizontal = 1:2,500
Vertical = 1:400

NUINSCO RESOURCES LIMITED
RAINY RIVER PROJECT, ONTARIO
FIGURE 15
REVERSE CIRCULATION DRILL SECTIONS
Q–Q' AND R–R'

OVERBURDEN DRILLING MANAGEMENT LIMITED
JULY, 1997



LEGEND

Quaternary Stratigraphy

HOLOCENE
Organics (peat)
PLEISTOCENE
LATE WISCONSINAN
Kaiashkibo Till
Ice-contact Sediments
3c – glaciolacustrine clay member
3b – glaciolacustrine sand member
3a – ice-contact member
Embryonic (Labradorean) Lake Agassiz Sediments
2b – glaciolacustrine clay member
2a – glaciolacustrine sand member
2a – ice-contact member
Labradorean Till

Sediment Varieties

Peat
clay,silt
Sand
Gravel
Sand-silt till, clay subordinate
Clay till

Symbols

Quaternary/bedrock unconformity
Quaternary unit boundary
Quaternary unit boundary
Quaternary subunit boundary

Geochemistry

Sand-silt till interval with 5 gold grains, 365 ppb Au, ~0.2 ppm Ag, 190 ppm As, 63 ppm Cu, 265 ppm Zn and 84 ppm Cd (= the nonmagnetic mineral fraction (SG > 3.3); ~ = less than detection limit; "ns" = not sampled)

Bedrock Lithologies

MESOZOIC/PRECAMBRIAN
Saprolite
PROTEROZOIC
Diabase
ARCHEAN
Plutonic Rocks
Monzonite, granodiorite
Quartz monzonite
Granodiorite and associated pegmatite
Tonalite
Diorite
Subvolcanic Intrusives and Dykes
Rp = quartz porphyry
Rp = quartz-feldspar porphyry
Rp = feldspar porphyry
Gabbro
Iron formation, chert
Clastic sedimentary rocks
Sg = greywacke
Sa = siltstone
Sc = conglomerate
Felsic volcanics and volcaniclastics
A = undifferentiated
Ap = rhyolite
Ac = rhyolite tuff
Intermediate volcanics and volcaniclastics
I = undifferentiated
Ia = andesite
Id = diorite
Ic = intermediate tuff
Basalt
Komatiite

Scale

Horizontal = 1:2,500
Vertical = 1:400

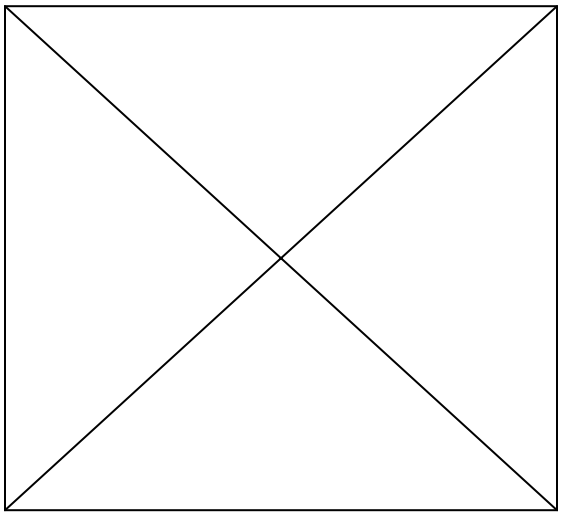
NUINSCO RESOURCES LIMITED
RAINY RIVER PROJECT, ONTARIO
FIGURE 16
REVERSE CIRCULATION DRILL SECTIONS
S-S'
OVERBURDEN DRILLING MANAGEMENT LIMITED
JULY, 1997

Problem Page
The original page in this document had a problem when scanned and as a result was unable to convert to Portable Document Format (PDF).

We apologize for the inconvenience.

Problème de conversion de page
Un problème est survenu au moment de balayer la page originale dans ce document. La page n'a donc pu être convertie en format PDF.

Nous regrettons tout inconvénient occasionné par ce problème.



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LEGEND

Quaternary Stratigraphy

HOLOCENE
5 Organics (peat)
PLEISTOCENE
LATE WISCONSINAN
4 Keewatin Till
3 Lake Agassiz Sediments
3c – glaciolacustrine clay member
3b – glaciolacustrine sand member
3a – ice-contact member
2 Embryonic (Labradorean) Lake Agassiz Sediments
2c – glaciolacustrine clay member
2b – glaciolacustrine sand member
2a – ice-contact member
1 Labradorean Till

Sediment Varieties

P Peat
C clay, silt
S Sand
G Gravel
ST Sand–silt till, clay subordinate
CT Clay till

Symbols

Quaternary/bedrock unconformity
Interglacial unconformity
Quaternary unit boundary
Quaternary subunit boundary

Geochemistry

ST Sand–silt till interval with 5 gold grains, 303 ppb Au, –0.2 ppm Ag, 190 ppm As, 63 ppm Cu, 296 ppm Zn and 84 ppm Cd in the nonmagnetic mineral fraction (SG > 3.3); "–" = less than detection limit; "na" = not analyzed

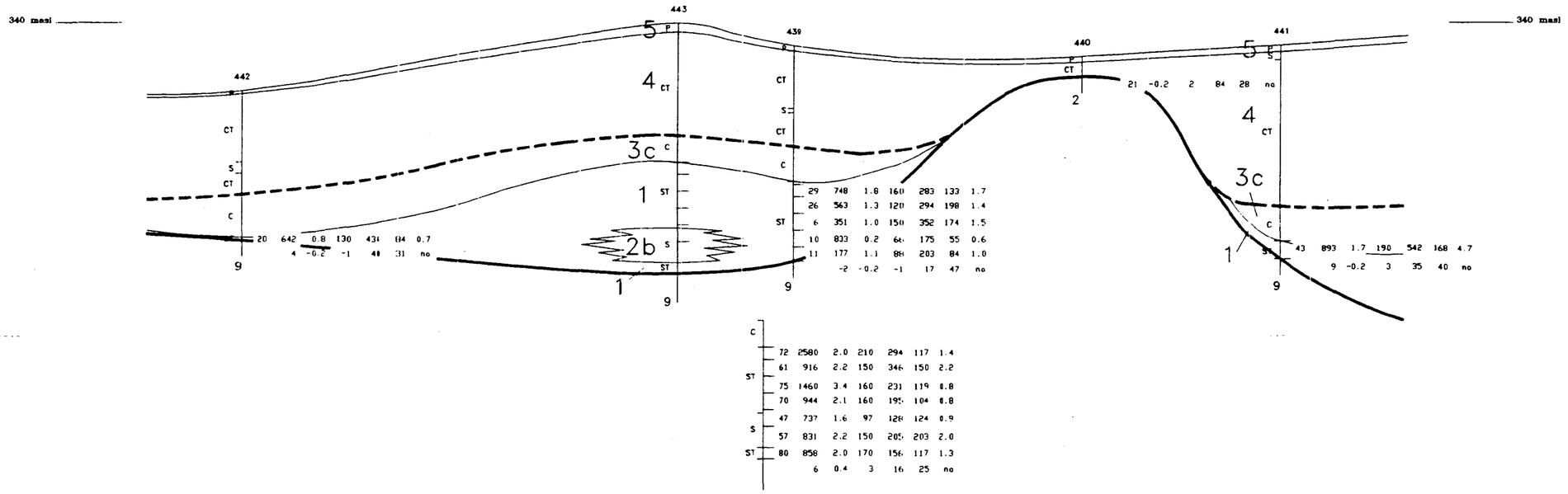
Bedrock Lithologies

MESOZOIC/PRECAMBRIAN
15 Saprolite
PROTEROZOIC
14 Diabase
ARCHEAN
Plutonic Rocks
13 Monzonite, granodiorite
12 Quartz monzonite
11 Trondhjemite and associated pegmatite
10 Tonalite
9 Diorite
8 Subvolcanic Intrusives and Dykes
8a – quartz porphyry
8b – quartz–feldspar porphyry
8c – feldspar porphyry
7 Gabbro
6 Iron formation, chert
5 Clastic sedimentary rocks
5a – greywacke
5b – siltstone
5c – argillite
4 Felsic volcanics and volcaniclastics
4 – undifferentiated
4a – rhyolite
4b – felsic tuff
3 Intermediate volcanics and volcaniclastics
3 – undifferentiated
3a – andesite
3b – dacite
3c – intermediate tuff
2 Basalt
1 Komatiite

Scale

Horizontal = 1:2,500
Vertical = 1:400

NUINSCO RESOURCES LIMITED
RAINY RIVER PROJECT, ONTARIO
FIGURE
REVERSE CIRCULATION DRILL SECTIONS
V–V', W–W', X–X' AND Y–Y'
OVERBURDEN DRILLING MANAGEMENT LIMITED
JULY, 1997



LEGEND

Quaternary Stratigraphy

HOLOCENE
- 5 Organics (peat)

PLEISTOCENE
LATE WISCONSINAN
- 4 Keewatin Till
- 3 Lake Agassiz Sediments
  - 3c – glaciolacustrine clay member
  - 3b – glaciolacustrine sand member
  - 3a – ice-contact member
- 2 Embryonic (Labradorean) Lake Agassiz Sediments
  - 2c – glaciolacustrine clay member
  - 2b – glaciolacustrine sand member
  - 2a – ice-contact member
- 1 Labradorean Till

Sediment Varieties

P	Peat
C	clay,silt
S	Sand
G	Gravel
ST	Sand–silt till, clay subordinate
CT	Clay till

Symbols

- Quaternary/bedrock unconformity
- Intergiacial unconformity
- Quaternary unit boundary
- Quaternary subunit boundary

Geochemistry

ST – Sand–silt till interval with 5 gold grains, 303 ppb Au, –0.2 ppm Ag, 190 ppm As, 63 ppm Cu, 296 ppm Zn and 84 ppm Cd in the nonmagnetic mineral fraction (SG > 3.3); "–" = less than detection limit, "na" = not analyzed

Bedrock Lithologies

MESOZOIC/PRECAMBRIAN
- 15 Saprolite

PROTEROZOIC
- 14 Diabase

ARCHEAN

Plutonic Rocks
- 13 Monzonite, granocliorite
- 12 Quartz monzonite
- 11 Trondhjemite and associated pegmatite
- 10 Tonalite
- 9 Diorite

8 Subvolcanic Intrusives and Dykes
- 8a – quartz porphyry
- 8b – quartz–feldspar porphyry
- 8c – feldspar porphyry

- 7 Gabbro
- 6 Iron formation, chert
- 5 Clastic sedimentary rocks
  - 5a – greywacke
  - 5b – siltstone
  - 5c – argillite
- 4 Felsic volcanics and volcaniclastics
  - 4 – undifferentiated
  - 4a – rhyolite
  - 4b – felsic tuff
- 3 Intermediate volcanics and volcaniclastics
  - 3 – undifferentiated
  - 3a – andesite
  - 3b – dacite
  - 3c – intermediate tuff
- 2 Basalt
- 1 Komatiite

Scale

Horizontal = 1:2,500
Vertical = 1:400

NUINSCO RESOURCES LIMITED
RAINY RIVER PROJECT, ONTARIO
FIGURE 19
REVERSE CIRCULATION DRILL SECTION
Z–Z'
OVERBURDEN DRILLING MANAGEMENT LIMITED
JULY, 1997

Ontario 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)
W9710.~~00378~~ 00379
Assessment Files Research Imaging

Personal information collected on this form is obtained under the authority of the Mining Act. Under section 8 of the Mining Act, this information is used to maintain a record of assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Ministry of Northern Development and Mines, 9th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5, Phone (705) 670-7264.

PROVINCE - SUDBURY RECORDING OFFICE
RECEIVED
SEP 30 1997
A.M. 11:30 NO P.M.

52C13SW0007 2.18086 RICHARDSON

900

Instructions - Please type or print in ink.

For each claim, use form 0240.

2.18086

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

Name	NUINSCO RESOURCES	Client Number 176866
Address	900 THE EAST MALL	Telephone Number (416) 626-0470
	ETOBICOKE ON M9B6K2	Fax Number (416) 626-0980
Name		Client Number
Address		Telephone Number
		Fax Number

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

		Office Use
Work Type		Commodity
		Total $ Value of Work Claimed ~~38,825~~ 38,823
Dates Work Performed From Day 19 Month 01 Year 97 To Day 22 Month 3 Year 97		NTS Reference
Global Positioning System Data (if available)	Township/Area RICHARDSON PATTULLO TWP, SUTTON	Mining Division Kenora
	M or G-Plan Number	Resident Geologist District Kenora

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	PAUL JONES	Telephone Number (807) 482-1102
Address	RR #2 EMO ONT P0W1E0	Fax Number
Name		Telephone Number
Address		Fax Number
Name		Telephone Number
Address		Fax Number

RECEIVED
11:30 pm
SEP 30 1997
GEOSCIENCE ASSESSMENT OFFICE

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

I, PAUL JONES (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 SEPT 8/97
Agent's Address	Telephone Number (807) 482-1102	Fax Number

Deemed Approved December 29/97

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	1210106		12,078			12,078
2	1105422		864			864
3	1161594		30,479			30,479
4	1161595		3,758			3758
5	1161602		15,373			15373
1000151 6	PARCEL 10961, S½ #3, CON.1 R	64.75	2,007			2,007
G. 1000152 7	PARCEL 4768-9771 S½ #4, CON.1 R	62.23	6,569			6,569
1000149 8	PARCEL 17392, W½ S½ #8, CON.1 R	32.37	21,345			21,345
G. 1000153 9	PARCEL 17752 W½ S½ #9 CON.1 R	32.37	12,449			12,449
S. 1000154 10	PARCEL 12083 S½ #10, CON.1 R	64.75	35,957			35,957
1000155 11	PARCEL 7654 N½ #10, CON.1 R	63.94	13,396			13,396
S. 1000156 12	PARCEL 14665 W½ N½ #9 CON.1 R	32.0	9,267			9,267
6. 1000157 13	PARCEL 13137 S½ #1 CON.1 R	64.75	12,098			12,098
1000145 14	PARCEL 17110 S½ #6, CON.2 R	63.12	9,576			9,576
1000141 15	PARCEL 5939 N½ #5, CON.1 R	62.36	12,181			12,181
		Column Totals	197,397			197,397

2.18086

RECEIVED
9:30 AM
SEP 18 1997
GEOSCIENCE ASSESSMENT OFFICE

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

Signature of Recorded Holder or Agent Authorized in Writing	Date
X Paul Jones	SEPT 8 1997

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

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

- ☐ 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- ☐ 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- ☐ 3. Credits are to be cut back equally over all claims listed in this declaration; or
- ☐ 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

NOTE R = RICHARDSON TOWNSHIP

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)	

0241 (02/96)

...to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to ...ing land where work was performed, at the time work was performed. A map showing the contiguous ...ac...mpany this form.

	...ing Claim Number. Or if ...rk 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
1000150 *	G1000150 PARCEL 10273 N½ #12, CON 1. R	84.38	4,170 ✓			4,170 ✓
2	PARCEL ~~4529~~ 4258 N½ #8, CON 1 R ✓	63.64	20,491 ✓			20,491
1000159	PARCEL 16342 E½ NW¼ 49, CON 1 R	31.97	3,068 ✓			3,068 ✓
1000160 *	PARCEL 18580 R E½ S½ 49, CON. 2	~~78.5~~ 31.68	9,473 ✓			9,473 ✓
1000161	PARCEL 16630 W½ S½ 49 CON 2 R	31.77	21,623 ✓			21,623
1000164	PARCEL 10746 N½ #10, CON. 2 R	64.34	6,281 ✓			6,281 ✓
1000162	PARCEL 14196 N½ #11 CON. 2. R	64.34	2,718 ✓			2,718 ✓
1000150	PARCEL 8070 R W½ S½ 47 CON 3	32.37	2,625 ✓			2,625 ✓
1000163	PARCEL 4534 R E½ W½ #7, CON. 2	31.97	5,632 ✓			5,632 ✓
1000150	PARCEL 11912 R S½ #7 CON. 2	63.94	12,881 ✓			12,881
1000150	PARCEL 22496 R W½ S½ #8, CON. 2	32.07	17,309 ✓			17,309
1000140	PARCEL 5483 R S½ S½ #8, CON. 2	30.99	9,061 ✓			9,061 ✓
1000147	PARCEL 13514 R E½ W½ #11 CON 1	31.95	2,419 ✓			2,419 ✓
14						
15	LIC OF OCCUP. # 14925		$ 53,306			$ 53,306
		Column Totals	117 751			117 751

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

Signature of Recorded Holder or Agent Authorized in Writing — Date: Sept 8, 1997

RECEIVED
11:30 am
SEP 30 1997
GEOSCIENCE ASSESSMENT OFFICE

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.
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- ☐ 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):

R = RICHARDSON TOWNSHIP

* PARCEL 4529 belongs to A.R.D.A LICENSE 14925
" 8070 " " " " "
" 11912 " " " " "

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

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

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

2.18086

	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
1000129 1	PARCEL 17117 NW¼ SEC. 31	T	59.89	16,990			16,990 ✓
1000098 2	PARCEL 17112 NE¼ SECT. 31	T	61.92	12,253			12,253 ✓
1000145 3	PARCEL 17114 S½ #1, CON. 1	S	64.75	26,473 ✓			26,473
1000146 4	PARCEL 14622 N½ #1, CON. 1	S	64.75	7,156 ✓			7,156
1000164 5	PARCEL 10842 SE¼, SEC 36	P	65.56	8,803 ✓			8,803
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
			Column Totals	386,823			386,823

RECEIVED
9:30 am
SEP 18 1997
GEOSCIENCE ASSESSMENT OFFICE

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

Signature of Recorded Holder or Agent Authorized in Writing	Date
Paul Jones	SEPT 8/97

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

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

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- ☐ 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):

T TAIT TOWNSHIP
S SIFTON TOWNSHIP
P PATTULLO TOWNSHIP

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)	

0241 (02/96)

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Ontario

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

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

February 13, 1998

NUINSCO RESOURCES LIMITED
908 THE EAST MALL
ETOBICOKE, ONTARIO
M9B 6K2

Dear Sir or Madam:

Submission Number: 2.18086

Subject: Transaction Number(s):		**Status**
	W9710.00379	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.

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 Bruce Gates by e-mail at gatesb2@epo.gov.on.ca or by telephone at (705) 670-5856.

Yours sincerely,

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

Correspondence ID: 11896

Copy for: Assessment Library

Work Report Assessment Results

Submission Number: 2.18086

Date Correspondence Sent: February 13, 1998 **Assessor:** Bruce Gates

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9710.00379	1210106	PATTULLO, RICHARDSON, TAIT, SIFTON	Deemed Approval	December 29, 1997

Section:
16 Drilling POVERB

Correspondence to:

Resident Geologist
Kenora, ON

Assessment Files Library
Sudbury, ON

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

Paul Jones
EMO, ONTARIO

NUINSCO RESOURCES LIMITED
ETOBICOKE, ONTARIO

Correspondence ID: 11896

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

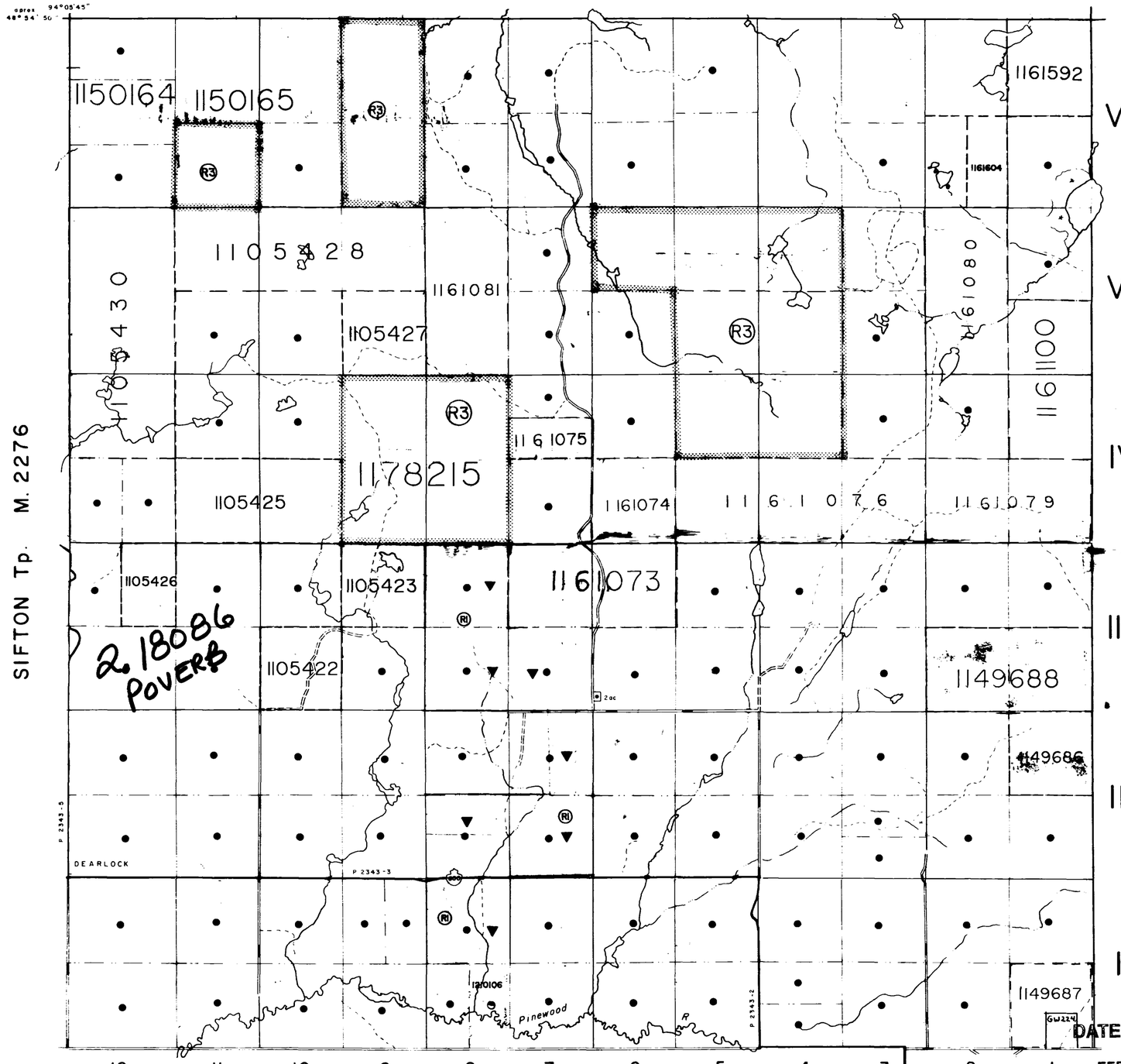
This Township lies within the Corporation of the Township of Chapple.

(R1) W-K-43/93 SRBMR JUNE 4/93

(R2) W-K-8/96 NWR MRO JAN. 26/96 195150-TO FILE # O-K-13/96 NWR MRO MAY 9/96 195150.

(R3) SECTION 35 W-K-25/97 28/10/97 M+S 195150

ROWE Tp. M.2118



2.18086 POVERB

LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
  - TOWNSHIPS, 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
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT		SYMBOL
PATENT	SURFACE & MINING RIGHTS	●
	SURFACE RIGHTS ONLY	◒
	MINING RIGHTS ONLY	◒
LEASE	SURFACE & MINING RIGHTS	■
	SURFACE RIGHTS ONLY	■
	MINING RIGHTS ONLY	■
LICENCE OF OCCUPATION		▼
CROWN LAND SALE		CS
ORDER-IN-COUNCIL		OC
RESERVATION		⊛
CANCELLED		⊗
SAND & GRAVEL		⊛

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

SCALE : 1 INCH 40 CHAINS

FEET 0 500 000 4000 6000 8000

METRES 0 200 400 600 800 KM 2KM

ACRES	HECTARES
40	16

TOWNSHIP

RICHARDSON

DISTRICT

RAINY RIVER

MINING DIVISION

KENORA

DATE OF ISSUE

FEB 13 1998

PROVINCIAL RECORDING OFFICE - SUDBURY

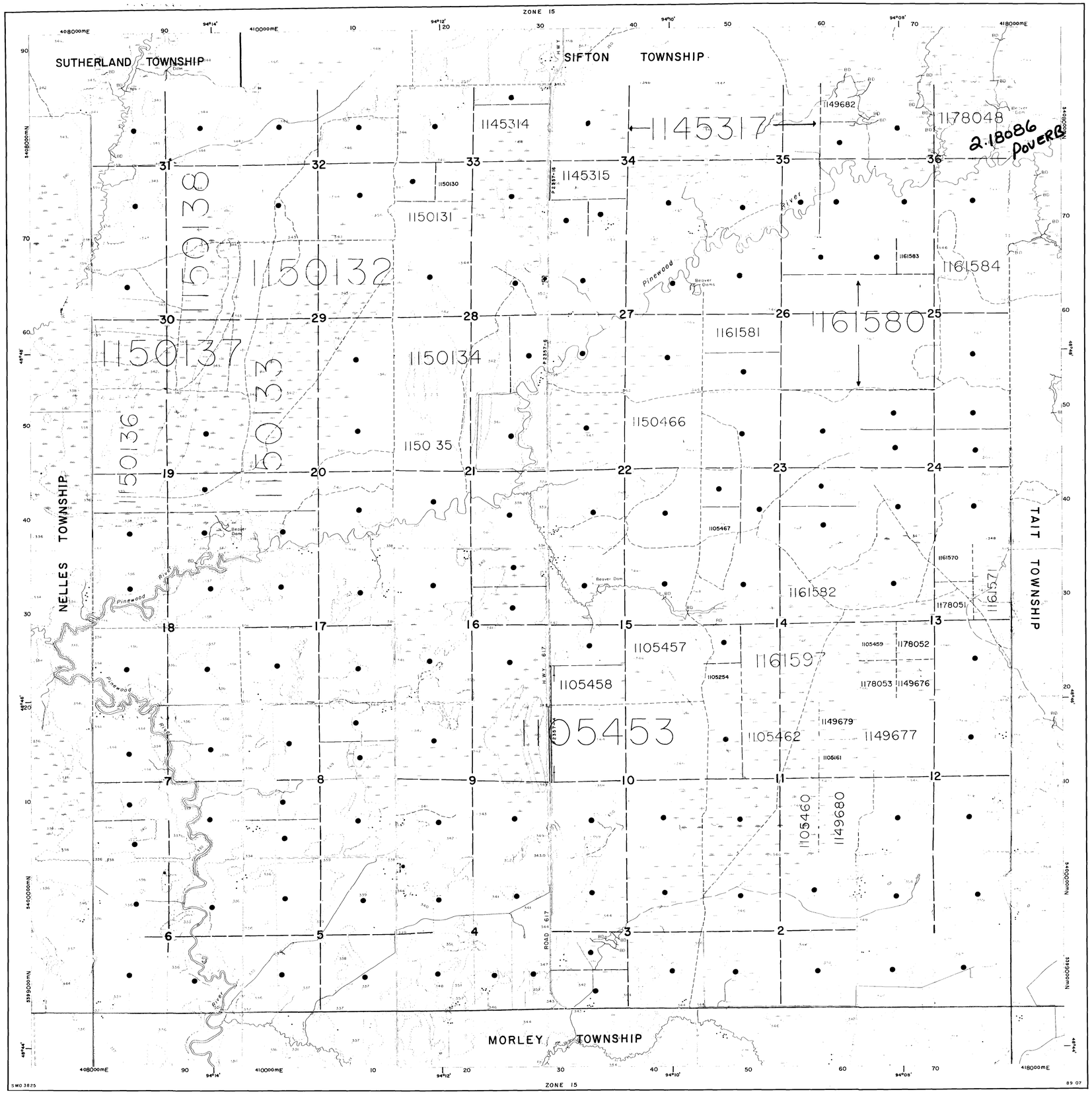
Ministry of Natural Resources

Ontario Surveys and Mapping Branch

Date 675 Plan No.

Whitney Block, Queen's Park, Toronto

M.2115



SM0 3825

89 07

Ministry of Natural Resources
Ontario

Ministry of Northern Development and Mines

INDEX TO LAND DISPOSITION

PLAN
G-3825

TOWNSHIP
PATTULLO

M.N.R. ADMINISTRATIVE DISTRICT
FORT FRANCES

MINING DIVISION
KENORA

LAND TITLES/REGISTRY DIVISION
RAINY RIVER

Scale 1:20 000

1000 Metres 0 1000 2000 Metres

1000 Feet 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10 000 Feet

Contour Interval 10 Metres

AREAS WITHDRAWN FROM DISPOSITION

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

Description	Order No.	Date	Disposition	File

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

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

DATE OF ISSUE
FEB 13 1998
PROVINCIAL RECORDING OFFICE - SUDBURY

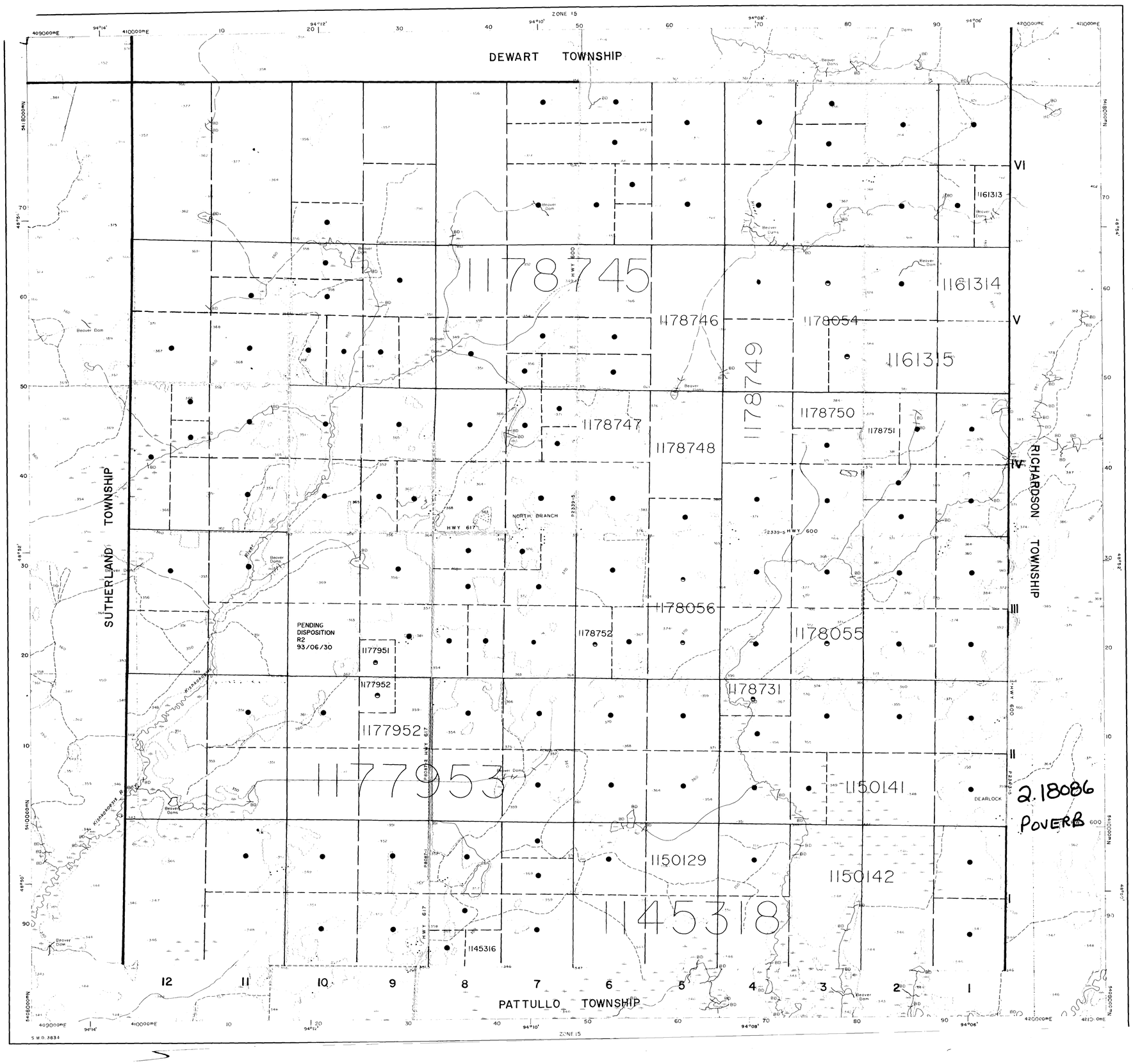
Map base and land disposition drafting by Surveys and Mapping Branch, Ministry of Natural Resources.

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

G-3825

PATTULLO TWP.

G-3825



Ministry of Natural Resources
Ontario

Ministry of Northern Development and Mines

INDEX TO LAND DISPOSITION

PLAN
G-3834

TOWNSHIP
SIFTON

M.N.R. ADMINISTRATIVE DISTRICT
FORT FRANCES

MINING DIVISION
KENORA

LAND TITLES/REGISTRY DIVISION
RAINY RIVER

Scale 1:20 000

1600 0 1000 2000 Metres

1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 Feet

Contour Interval 10 Metres

AREAS WITHDRAWN FROM DISPOSITION

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

Description	Order No.	Date	Disposition	File
R2	RESERVED FOR REFORESTATION PURPOSES	55MAR8		11261

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

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 — R
- Sand & Gravel — P

DATE OF ISSUE

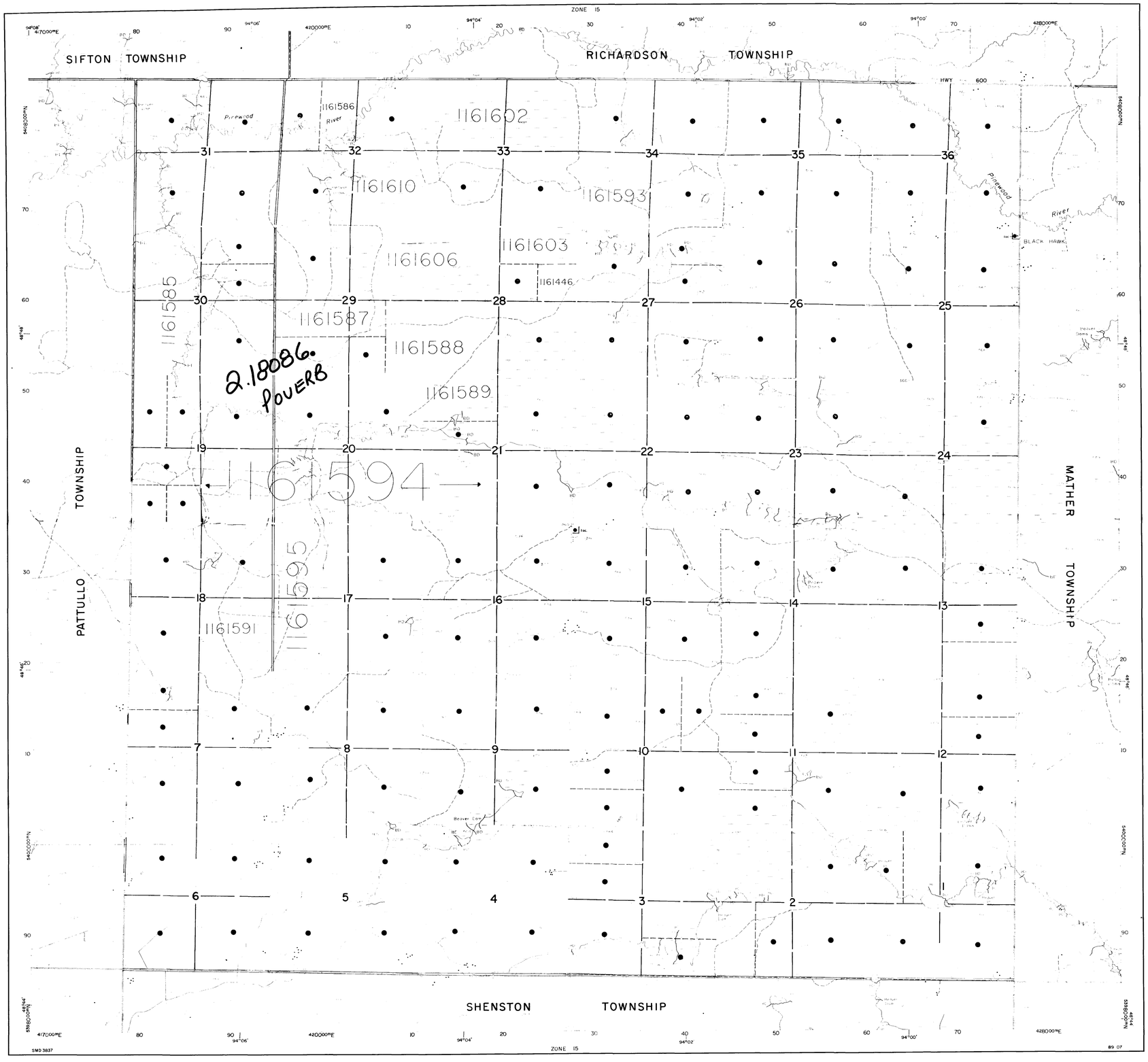
FEB 13 1998

PROVINCIAL RECORDING OFFICE - SUDBURY

2.18086
POVERB

G-3834

SIFTON TWP.



Ministry of Natural Resources
Ontario

Ministry of Northern Development and Mines

230

INDEX TO LAND DISPOSITION

PLAN
G-3837

TOWNSHIP
TAIT

EFFECTIVE

M.N.R. ADMINISTRATIVE DISTRICT
FORT FRANCES
MINING DIVISION
KENORA
LAND TITLES/REGISTRY DIVISION
RAINY RIVER

Scale 1:20 000

1000 Metres 0 1000 2000 Metres

1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 Feet

Contour Interval 10 Metres

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.

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

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 — R
- Sand & Gravel — S

AREAS WITHDRAWN FROM DISPOSITION

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

Description	Order No.	Date	Disposition	File

NOTES

DATE OF ISSUE

FEB 13 1998

PROVINCIAL RECORDING OFFICE - SUDBURY

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

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G-3837

TAIT TWP.