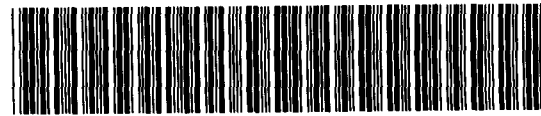


Nuinsco Resources Limited

Rainy River Project

WORK REPORT

1996 Reverse Circulation Drill Data



52D16SE0012 W9610.00111 RICHARDSON

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July 22, 1996

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RAINY RIVER PROJECT

1996 Reverse Circulation Drill Program

WORK REPORT - DRILL DATA

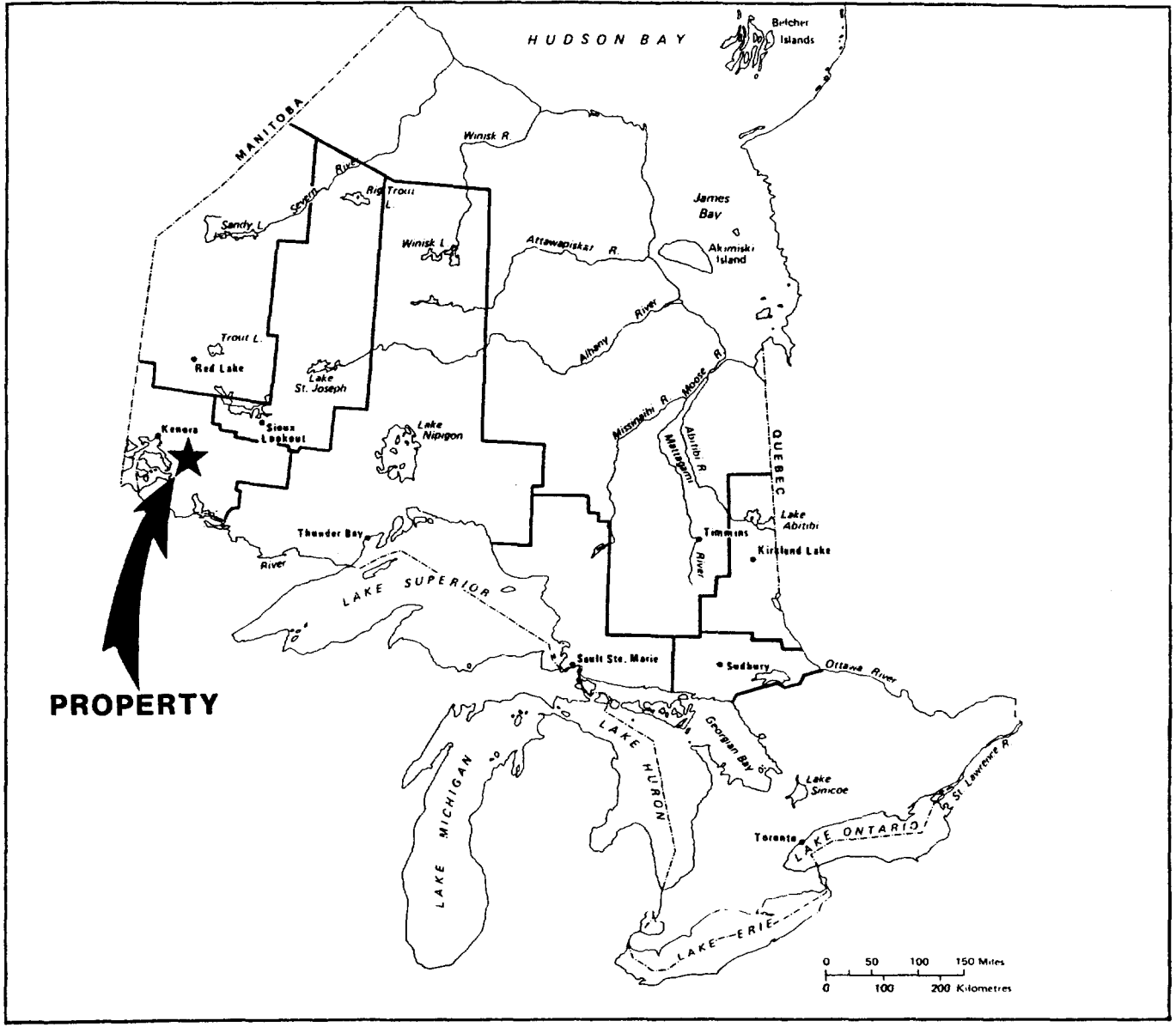
1. INTRODUCTION

From January 21 to March 26, 1996, 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 reverse circulation drill program. This drill project involved both heavy mineral geochemical sampling of Quaternary glacial 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.

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 previously in 1995 and in 1996 are Crown Lands staked by the Company and patented lands held under option agreements. The claims cover essentially all of the Crown land in an area of the Rainy River Greenstone Belt which extends from Richardson 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 eleven reconnaissance holes (Nos. RR-96-212 to 320) were drilled, four of which had to be re-drilled. A total of 2,689.6 metres were drilled and 340 till samples and 124 bedrock samples were collected. This work report, however, only summarizes the results of those holes which can be filed for assessment credits.



**Nuinsco Resources Limited
 RAINY RIVER GOLD PROJECT
 REGIONAL LOCATION MAP**

Figure 1

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 1995 and 1996 reverse circulation drill programs were carried out.

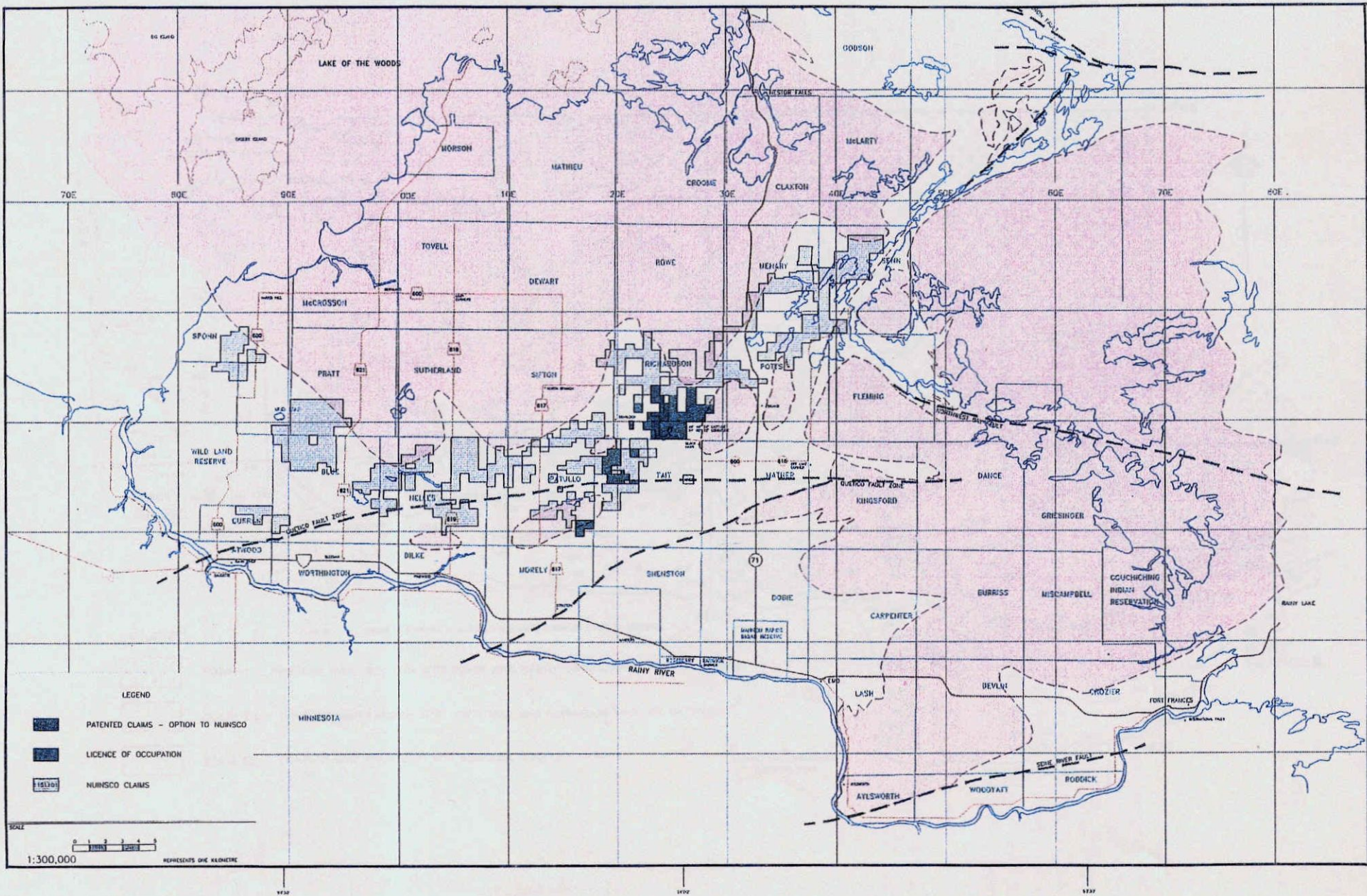


Figure 2 - Location of the Nuinsco Properties in the Rainy River Greenstone Belt.
 Source: Cover of Nuinsco Resources Ltd. 1994 Annual Report

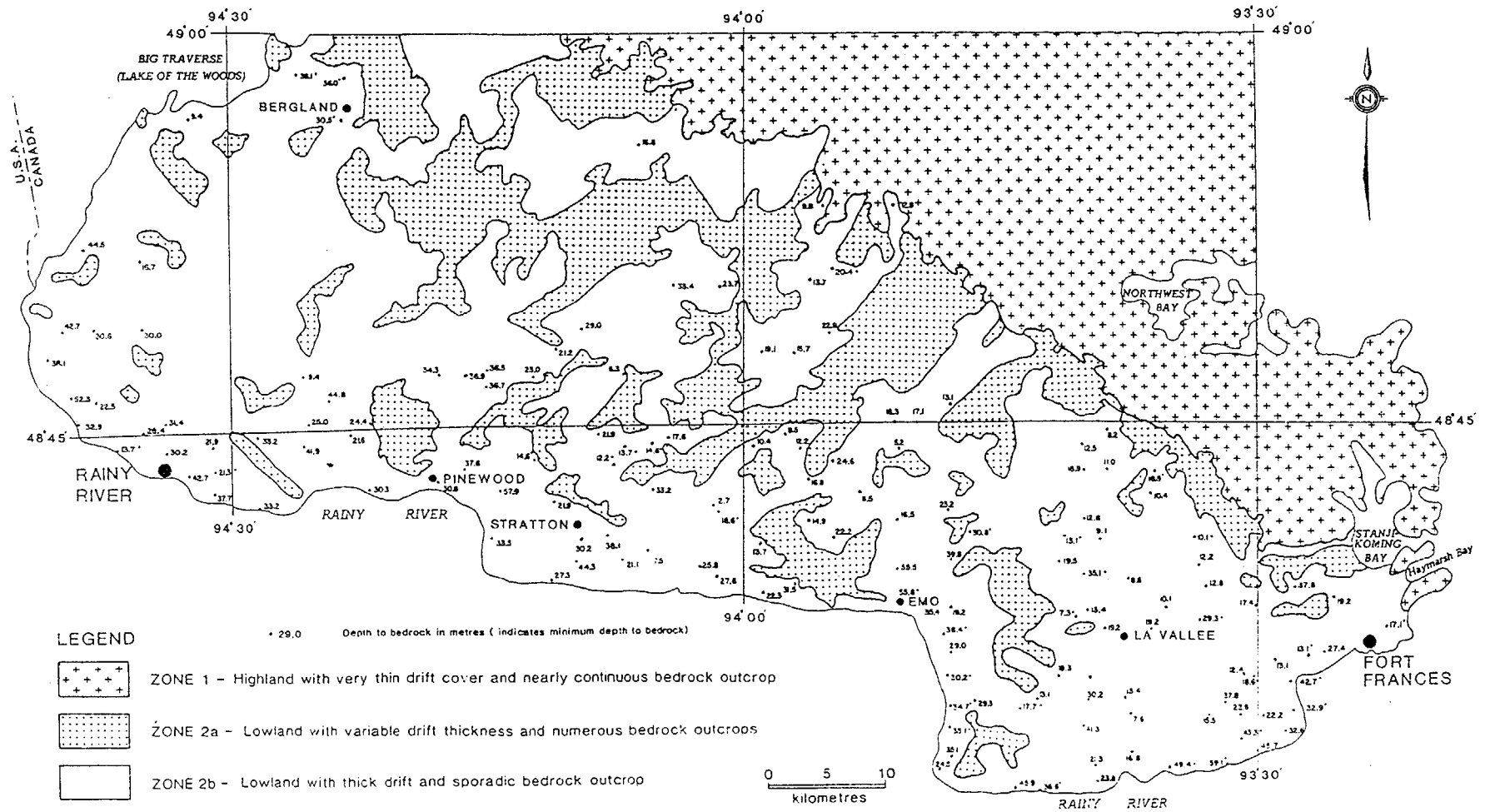


Figure 3: Physiography of the Rainy River District (Bajc, 1991)

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.

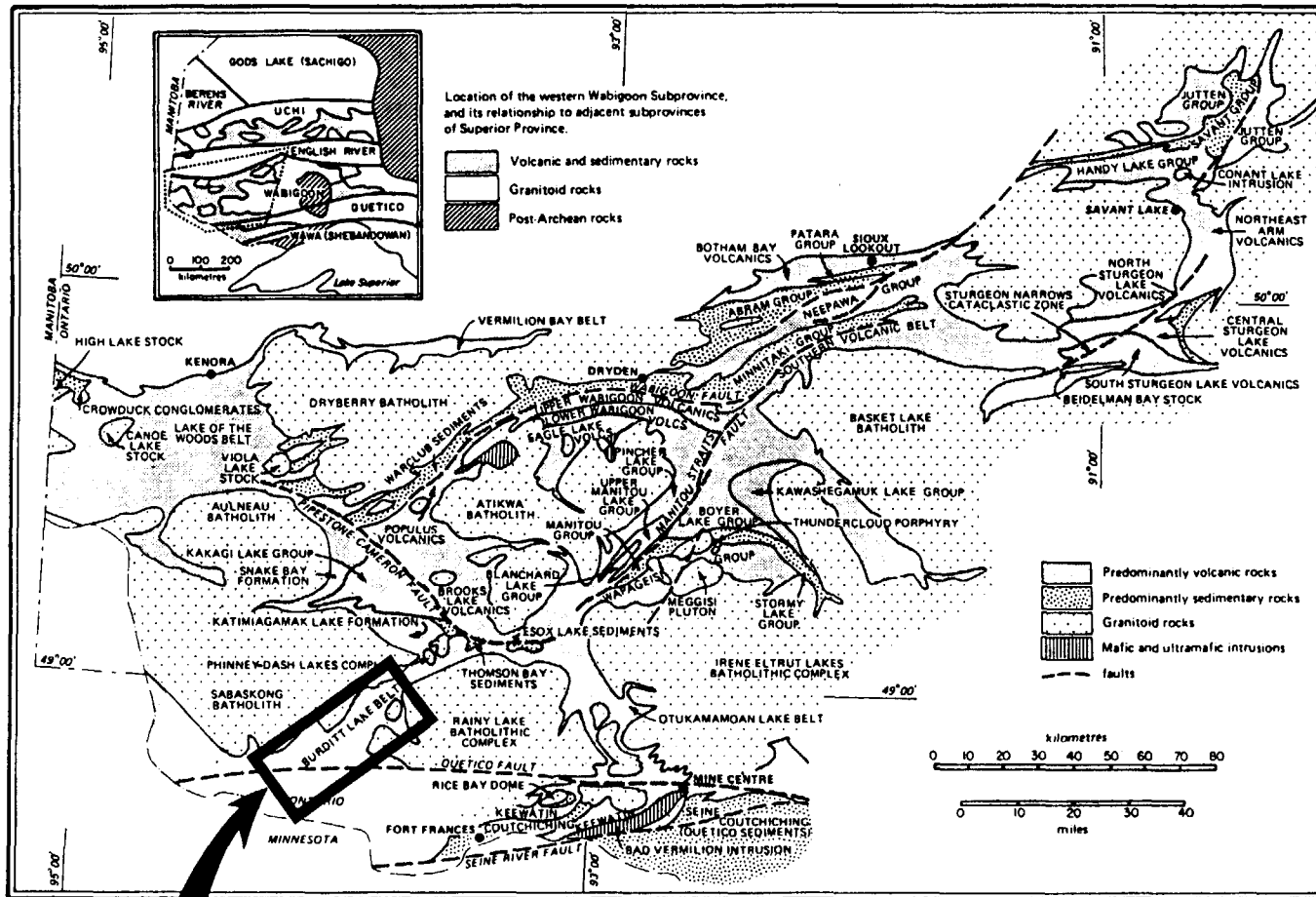
Nuinsco's properties northeast of Richardson Township on the east side of the Sabaskong Batholith are beyond the clay belt and thus were not targeted for reverse circulation drilling in either of the 1995 or 1996 drilling programs.

Although the bedrock geology of the 1995 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 Labradorian 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 are in the eastern Rainy River Greenstone Belt in 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



RAINY RIVER DISTRICT

REGIONAL GEOLOGY WESTERN WABIGOON SUBPROVINCE AND ITS MARGINS

Figure 4

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.

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, pre-tectonic 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

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

(1954) infer the 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 transected 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/schistosity 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 Labradorian 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 Labradorian and Keewatin ice masses during meltdown. Striae measurements indicate ice flow azimuths of $210 \pm 10^\circ$ for the Labradorian ice and $090 \pm 20^\circ$ for the Keewatin ice (Bajc, 1991a).

Quaternary sediments intersected in the reverse circulation drill holes comprise till and Lake Agassiz sediments from both the Labradorian and Keewatin events. Labradorian 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. This, in addition to magnetic evidence, strongly supports the westward extension of the Quetico Fault past Richardson Township.

The Labradorean till and associated sediments are overlain by the Keewatin-derived package comprising layers of Lake Agassiz glaciolacustrine clay-silt (\pm 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 \pm 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 1996 reconnaissance drilling so as to obliquely cross the E-W trending bedrock stratigraphy while squarely intercepting any dispersal trains in the SW transported Labradorian till. Most traverses were 1 to 1.5 km apart. A separation this great could easily allow short dispersal trains from small gold deposits to slip undetected between traverses but the main goal in 1996 was to locate and test large structures. Hole spacing along the traverses averaged 300 m (in contrast to 400 m in the 1995 reverse circulation program). Any train crossed by a traverse would probably be intersected in only one or two drill holes.

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

5.2 Methodology, 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 a geologist and assistant, supplemented as needed by a navigator to lay out the drill holes. The geology crews were rotated every three weeks. Participating geologists were Don Holmes, Peter Collins, Lyle Duchene and Valerie Ansell with assistance from Stuart Averill. Nuinsco's two geologists, George Archibald and Paul Jones directed the entire program.

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

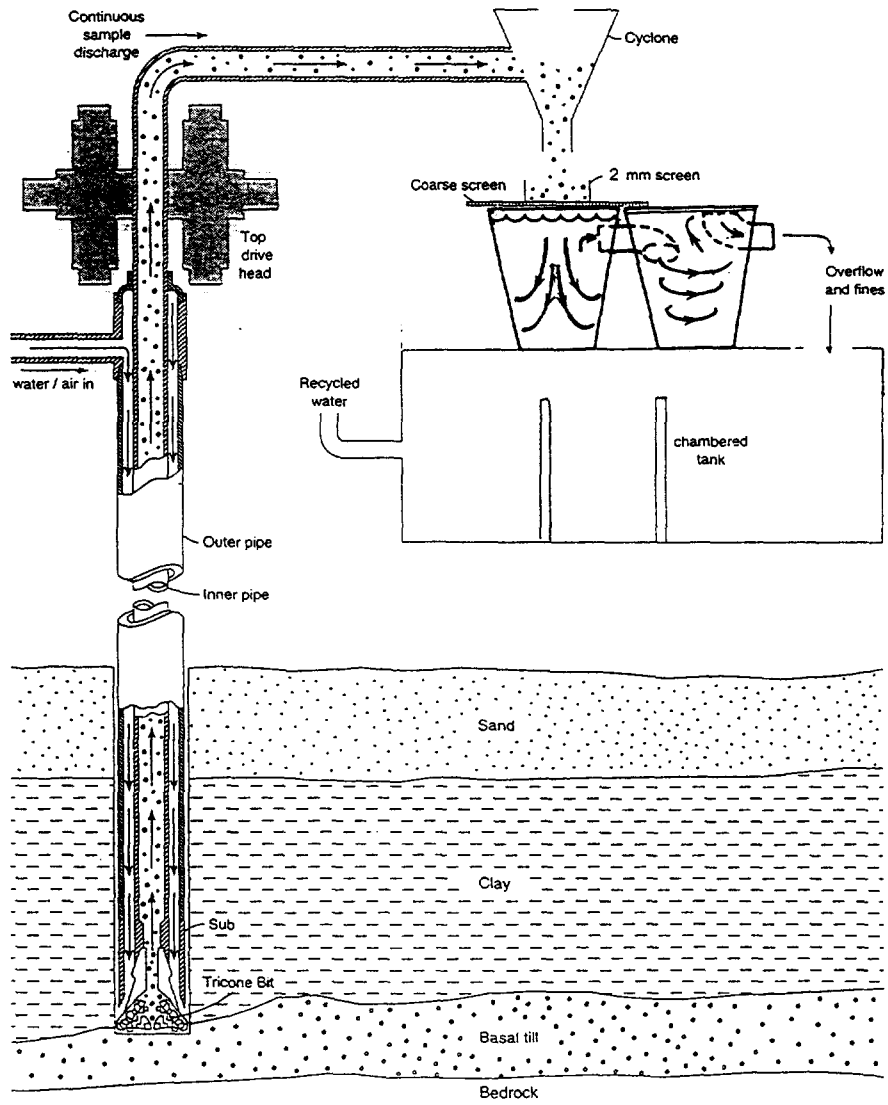


Figure 5 ; Schematic Diagram of a Reverse Circulation Drilling System

HOLE NUMBER	TARGET NUMBER	METRES DRILLED		HOLE DEPTH (m)	SAMPLES COLLECTED	
		OVERBURDEN	BEDROCK		OVERBURDEN	BEDROCK
RR-96						
212	4	10.0	1.7	11.7	1	1
213	4	28.6	1.4	30.0	1	1
214	4	33.0	2.0	35.0	2	1
215	4	30.6	1.9	32.5	4	1
216	4	20.0	1.7	21.7	1	1
217	2	44.4	2.1	46.5	5	1
218	2	33.0	1.5	34.5	3	1
219*	2	19.5	0.0	19.5	2	0
219A	2	20.8	1.4	22.2	4	1
220	2	14.3	1.7	16.0	2	1
221	2	10.8	1.7	12.5	1	1
222	2	5.1	1.4	6.5	1	1
223	2	13.5	2.0	15.5	5	1
224	2	13.3	1.7	15.0	1	1
225	2	23.7	1.3	25.0	6	2
226	2	21.3	1.3	22.6	5	1
227	2	24.8	1.7	26.5	7	1
228	2	9.7	1.8	11.5	4	1
229	1	25.8	1.7	27.5	5	1
230*	1	29.0	0.0	29.0	1	0
230A	1	28.7	1.3	30.0	2	1
231	1	25.5	1.5	27.0	2	1
232	1	10.8	1.2	12.0	3	1
233	1	19.1	1.9	21.0	3	1
234	16	38.7	26.7	65.4	3	0
235	16	41.4	5.1	46.5	3	1
236	11 ext.	4.1	1.4	5.5	1	1
237	11 ext.	4.7	1.3	6.0	1	1
238	11 ext.	9.7	1.3	11.0	1	1
239	11	13.4	1.5	14.9	3	1
240	13	26.0	1.0	27.0	2	1
241	11	12.4	1.6	14.0	2	1
242	11	5.6	1.5	7.1	1	1
243	11	2.4	1.6	4.0	2	2
244	11	18.7	1.5	20.2	3	1
245	11	15.0	1.9	16.9	0	3
246	11	22.4	1.4	23.8	4	2
247	11	33.1	1.4	34.5	4	1
248	11	42.3	1.7	44.0	4	2
249	11	27.5	1.5	29.0	2	1
250	11	35.4	1.1	36.5	3	1
251	11	27.7	1.5	29.2	4	2
252	11	19.1	1.0	20.1	0	1
253	11	9.8	1.4	11.2	1	1
254	11	19.2	1.8	21.0	1	2
255	11	15.5	1.3	16.8	3	2
256	11	17.4	1.8	19.2	1	3
257	11	24.5	1.3	25.8	4	1
258	11	19.1	1.4	20.5	1	1
259	11	13.8	1.5	15.3	0	1
260	11	17.8	1.2	19.0	1	1
261	11	26.0	1.5	27.5	5	1
262	12	31.2	1.8	33.0	7	1
263	12	28.5	1.9	30.4	1	2
264	12	26.3	2.0	28.3	3	1
265	12	28.0	1.7	29.7	5	1
266	12	26.4	1.6	28.0	4	1
267	5	36.0	1.5	37.5	6	1

HOLE NUMBER	TARGET NUMBER	METRES DRILLED		HOLE DEPTH (m)	SAMPLES COLLECTED	
		OVERBURDEN	BEDROCK		OVERBURDEN	BEDROCK
RR-96						
268	6 ext.	25.0	1.5	26.5	4	1
269	6 ext.	37.2	1.3	38.5	12	1
270	6 ext.	21.0	1.5	22.5	0	1
271	6 ext.	28.0	1.5	29.5	2	1
272	6 ext.	62.3	1.2	63.5	18	1
273	6	52.0	1.5	53.5	6	1
274	6	34.0	2.0	36.0	3	1
275	6	17.0	2.0	19.0	1	1
276	8	45.8	1.4	47.2	8	1
277	8	27.0	1.5	28.5	6	1
278	10	21.2	1.3	22.5	2	1
279	10	26.9	2.1	29.0	5	1
280	7	18.4	2.3	20.7	4	2
281	7	20.3	1.7	22.0	4	1
282	7	17.4	1.4	18.8	3	1
283	9	26.5	1.2	27.7	4	1
284	9	32.5	1.5	34.0	1	1
285	9	36.8	0.7	37.5	5	1
286	9	30.5	1.0	31.5	4	1
287	3	33.8	1.5	35.3	3	1
288	3	29.4	1.6	31.0	3	1
289	3	32.5	1.5	34.0	2	1
290	3	31.0	1.5	32.5	1	1
291	3	28.6	1.4	30.0	1	1
292	3	29.8	1.7	31.5	3	1
293	3	25.7	1.1	26.8	1	1
294*	3	11.0	0.0	11.0	3	0
294A	3	18.1	1.4	19.5	5	1
295	3	8.1	1.4	9.5	2	1
296	3	9.8	1.2	11.0	3	1
297	3	16.2	1.3	17.5	2	1
298	6	24.8	1.7	26.5	3	1
299	6	23.2	1.6	24.8	4	1
300	6	17.4	2.1	19.5	1	1
301	6	43.8	1.2	45.0	5	1
302	6	15.8	1.5	17.3	0	1
303	6	32.2	1.8	34.0	0	1
304	23	15.4	1.5	16.9	2	1
305	23	18.6	1.4	20.0	9	1
306	23	5.6	2.9	8.5	3	1
307	22	0.2	1.3	1.5	1	1
307A	22	6.2	1.0	7.2	1	1
308	22	7.4	1.4	8.8	1	1
309	22	3.2	1.1	4.3	0	1
310	24	11.2	2.3	13.5	2	1
311	24	12.5	1.0	13.5	3	1
312	24	7.7	1.5	9.2	0	1
312A	24	15.0	1.4	16.4	2	1
313	20	18.6	1.4	20.0	4	1
314*	19	5.8	1.2	7.0	0	1
314A	19	5.8	0.1	5.9	1	0
315	25	24.7	3.1	27.8	3	1
316	25	23.3	3.1	26.4	2	2
317	25	21.9	1.6	23.5	1	1
318	25	29.4	1.6	31.0	2	1
319	25	22.7	1.3	24.0	3	1
320	14	33.0	1.5	34.5	9	1
111		2488.3	201.3	2689.6	340	124

* Redrilled for technical rather than geological reasons; original holes and metres not included in project totals.

TABLE 2 - DRILLING AND SAMPLING STATISTICS

and bulk samples weighing 8 to 10 kg are collected (see Figure 6). *Appendix I* details the drill hole logs.

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 (and some of the saprolite) 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).

Using the assumptions that hole depth would average 25 m and four overburden samples and one bedrock sample would be obtained from each hole, ODM had prepared a working budget of \$383,157 for the 1996 project. This budget 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 actual drilling and analytical costs for the 111 holes amounted to \$331,378.11 plus \$36,415.56 support costs or \$16.75/meter drilled.

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

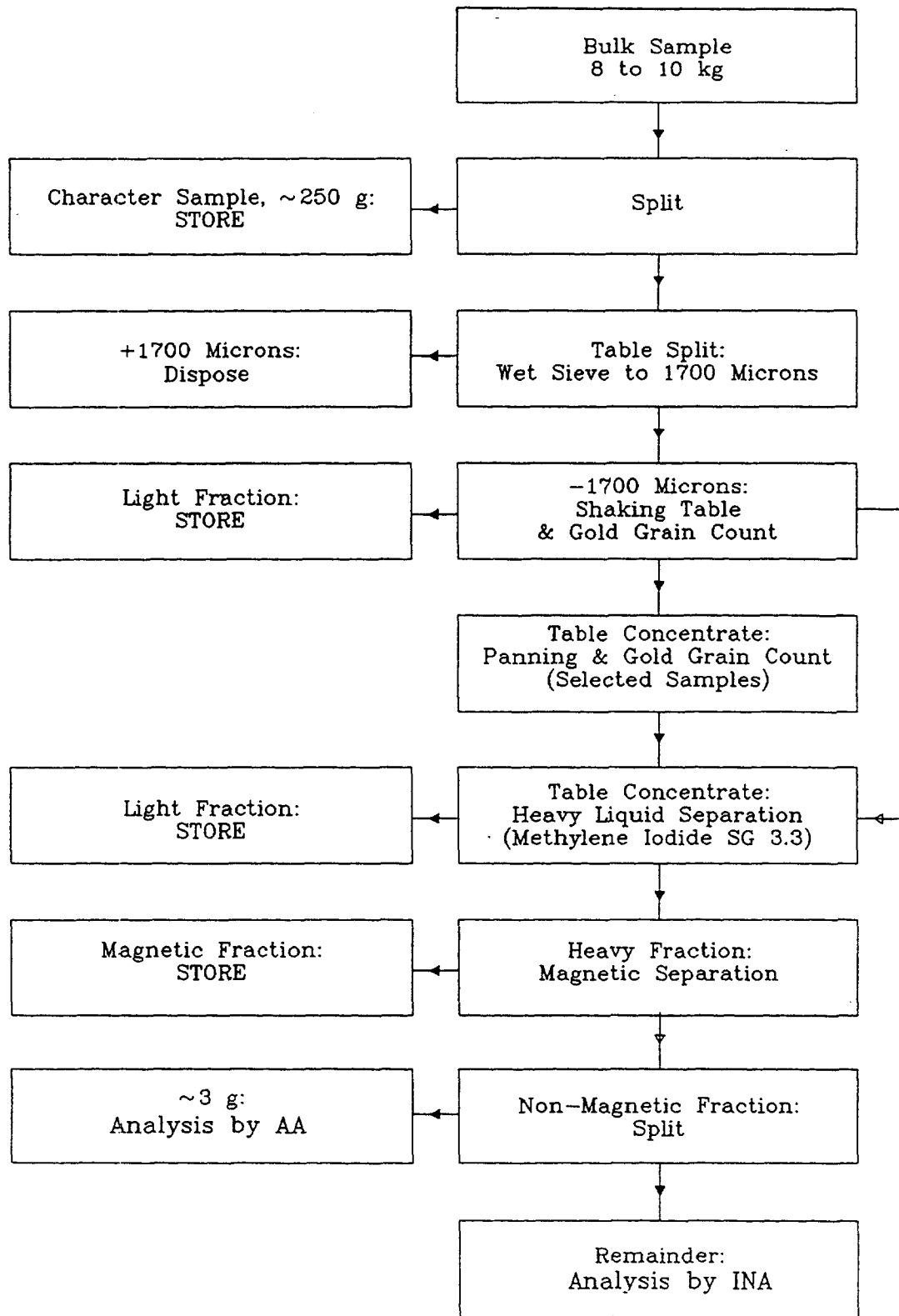


Figure 6 ; Overburden Sample Processing Flow Sheet

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 Reverse Circulation drill report as no new lithologies were intersected.

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 Al₂O₃ (7 percent), and low SiO₂ (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 Fe₂O₃ 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 SiO₂ (55-62 percent) and low MgO + Fe₂O₃ 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 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. SiO₂ contents typically range from 62-70 percent, overlapping with both the calc-alkalic basalts and dacites of the Richardson area. Total Fe₂O₃ + 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 SiO₂ contents similar to the calc-alkalic andesite but slightly higher Fe₂O₃ (6-10 percent). They are depleted in MgO, Na₂O and CaO, apparently due to the combined effects of shearing and incipient sapolitization.

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 SiO₂ 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 SiO₂, Al₂O₃, Fe₂O₃, MgO or Na₂O 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 greenstone 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 Fe₂O₃ (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 \pm 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 1996 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. Deposits of any type were sought but the emphasis was on gold due to the proximity to the Quetico Fault. The lack of major shear deformation/alteration on all properties except Richardson indicates that the Quetico Fault is on the Richardson property, not further south as previously thought. This potentially explains the presence of gold in the Richardson area and greatly enhances its potential for discovery of a gold deposit in this Township.

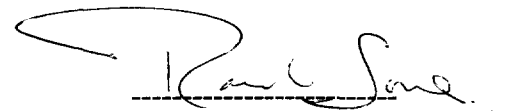
The local occurrence of native copper grains in the saprolite and their widespread occurrence and local high concentrations in the till that there must have been a copper mineralizing event across the Rainy River greenstone belt.

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

Several weak till anomalies of copper and gold have been outlined by the 1996 reverse circulation drill campaign. These anomalies all lie in areas covered by moderate to deep overburden which will require alternate exploration techniques to define drill targets. Follow-up IP surveys and diamond drill holes are recommended in the south eastern portion of Richardson Township adjacent to the regional Quetico Fault system.

Respectfully submitted,



Paul Jones, BSc.
Project Geologist
July 22, 1996

Table 3 Statement of Expenditures *

Dates of Drilling:	January 21 - March 26th, 1996
Number of Holes:	111
Total (metres):	2,689.6 m

(A) DIRECT DRILL COSTS

Bradley Brothers	188,979.00
Overburden Drilling	127,754.28**
ACT Labs (assaying)	11,643.49
Plowing access roads	<u>3,001.34</u>
	331,378.11

Total Direct Drilling Costs/meter = \$123.21

(B) SUPERVISION AND SUPPORT COSTS

Paul Jones; 13 days x \$300/day (Senior Geologist)	3,900
George Archibald, 38 days x \$500/day (Project Manager, Nuinsco VP Explor.)	19,000
truck	2,327.88
field office rent	1,400.00
ph/supplies/heating	2,165.46
expenses (food, travel)	7,457.22
report costs	<u>165.00</u>
	36,415.56

Total Support Costs/meter = \$13.54

TOTAL DRILL COSTS/METER = \$136.75

* Exclusive of GST

** Includes field supervision, logging, sampling, sample shipping, sample processing.

Table 4 Total Footage (meters) per Claim

Township	Claim Parcel	RC Drill Hole Numbers	Dates Drilled	Total Meters Drilled
Richardson	# 10746	278, 279	March 9	51.5
	# 13514	276, 277	March 7,8	75.7
	# 5483	283, 284, 285	March 10, 11	99.2
	# 17392	281, 282	March 10	40.8
	# 22496	286	March 11	31.5
	# 4259	280	March 9, 19	20.7
Tait	1161602	212, 213, 214, 215, 216	Jan. 21 - 23	130.9
	# 17112	268, 269, 270	March 3, 4	87.5
	# 17117	271, 272	March 4, 5	93.0
Pattullo	# 14975	302, 303	March 17, 18	51.3
	1161583	301	March 16, 17	45.0
	1161584	298, 299, 300	March 15, 16	70.8
	1178048	273, 274, 275	March 6, 7	108.5
	1150136	235	Feb. 13	46.5
Nelles	1178028	234	Feb. 11	65.4
	1178036	314, 313, 314 A	March 22	32.9
Sifton	1178055	243, 244	Feb. 16, 17	24.2
	1150141	248, 249, 256, 257, 260	Feb 20 - 28	137.0
	1150142	250, 251, 252, 262, 263, 264, 265, 266	Feb 20 - March 2	235.2
Blue	# 4097	307, 307A	March 20	8.7
	#48R	308, 309	March 20	13.1
	# 4942	304	March 19	16.9
	# 5132	305, 306	March 19, 20	28.5
	# 12610	310, 311, 312, 312A	March 21	52.6
	1150139	318, 319	March 23	55.0
Atwood/ Curran	1161611	315, 316, 317	March 23, 24	77.7

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 22nd day of July, 1996.



Paul Jones, B.Sc.
July 22, 1996

Table 5 Ownership

Township	Con./Section	Lot	Parcel	Owner	Date of Option	Acres
Richardson	2	N1/2, 10	#10746	Croswell, K.A.	2/6/96	159.0
	1	E1/2, N1/2, 11	#13514	Munro, C.J	9/3/92	78.91
	2	S1/2, S1/2, 8	#5483	Georgeson, F.	5/2/92	76.58
	1	W1/2, S1/2, 8	#17392	Baghdasarian, V.	6/30/94	80.00
	2	N1/2, S1/2, 8	#22496	ARDA	7/1/93	79.25
	1	N1/2, 8	#4259	ARDA	7/1/93	157.27
Tait	31	NE 1/4	#17112	Leblanc, R.	1/16/96	153.0
	31	NW 1/4	#17117	Leblanc, R.	1/16/96	148.0
Pattullo	36	SW 1/4	#14975	Johnson Estate	3/13/95	164.0
Blue	23	SW 1/4	#4097	Nuinsco Res.	8/95	164.0
	14	pt NW 1/4	#48R	Johnson, C.	11/9/95	14.0
	27	SE 1/4	#4942	Johnson, L.C.	11/9/95	162.0
	26	SW 1/4	#5132	Johnson, R.	11/9/95	158.0
	35	SE 1/4	#12610	Robinson, D.	2/20/96	162.0

Table 6 Work Applied on Mining Claims and Patents

<u>Mining Claims</u>	<u>Township</u>	<u>Meters Drilled</u>	<u>Assessment Credits</u>
1161602	Tait	130.9	\$17,900.58
1161583	Pattullo	45.0	\$6,153.75
1161584	Pattullo	70.8	\$9,681.90
1178048	Pattullo	108.5	\$14,837.38
1150136	Pattullo	46.5	\$6,358.88
1178028	Nelles	65.4	\$8,943.45
1178036	Nelles	32.9	\$4,499.08
1178055	Sifton	24.2	\$3,309.35
1150141	Sifton	137.0	\$18,734.75
1150142	Sifton	235.2	\$32,163.60
1150139	Blue	55.0	\$7,521.25
1161611	Curran	77.7	\$10,625.48

<u>Patents</u>	<u>Township</u>	<u>Meters Drilled</u>	<u>Assessment Credits</u>
10746	Richardson	51.5	\$7,042.63
13514	Richardson	75.7	\$10,351.98
5483	Richardson	99.2	\$13,565.60
17392	Richardson	40.8	\$5,579.40
22496	Richardson	31.5	\$4,307.63
4259	Richardson	20.7	\$2,830.73
17112	Tait	87.5	\$11,965.63
17117	Tait	93.0	\$12,717.75
14975	Pattullo	51.3	\$7,015.28
4097	Blue	8.7	\$1,189.73
48R	Blue	13.1	\$1,791.43
4942	Blue	16.9	\$2,311.08
5132	Blue	28.5	\$3,897.38
12610	Blue	52.6	\$7,193.05

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1178036	Nelles	32.9	\$4,499.08
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1150141	Sifton	137.0	\$18,734.75
1150142	Sifton	235.2	\$32,163.60
1150139	Blue	55.0	\$7,521.25
1161611	Curran	77.7	\$10,625.48

Patents	Township	Meters Drilled	Assessment Credits
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13514	Richardson	75.7	\$10,351.98
5483	Richardson	99.2	\$13,565.60
17392	Richardson	40.8	\$5,579.40
22496	Richardson	31.5	\$4,307.63
4259	Richardson	20.7	\$2,830.73
17112	Tait	87.5	\$11,965.63
17117	Tait	93.0	\$12,717.75
14975	Pattullo	51.3	\$7,015.28
4097	Blue	8.7	\$1,189.73
48R	Blue	13.1	\$1,791.43
4942	Blue	16.9	\$2,311.08
5132	Blue	28.5	\$3,897.38
12610	Blue	52.6	\$7,193.05

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APPENDIX I

Reverse Circulation Drill Hole Logs

Rainy River Project
Work Report
1996 Reverse Circulation Drill Data
Paul Jones, Project Geologist
July 22, 1996

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE Jan 21 19 96 HOLE NO RR-96-212 LOCATION Site #5 ELEVATION 1130'
 GEOLOGIST P. Collins DRILLER R. Legault BIT NO. C071107 BIT FOOTAGE 0.0 - 11.7
 SHIFT HOURS _____ MOVE TO HOLE 8:15 - 10:30 Set up 10:30 - 11:30
 _____ TO _____ DRILL 11:30 - 1:00
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0.0		0.0 - 0.5		Organics - peat
1		0.5 - 9.3		<u>Keewatin Till</u> light ochre - beige to grey (4.0m) very slightly gritty clay with occasional small pebbles or granules (mainly limestone & sandstone)
2		(6.0 - 6.3)		small granite boulders
3		(6.3 - 9.3)		clay Till + clay: till as above with occasional non-gritty clay seams
4		9.3 - 10.0		<u>Labradorian Till</u> Sandy till: grey silt to fine sand matrix. Small cobbles clasts 70% Volcanics/ Sediments; 30% granitoids.
5		10.0 - 11.7		<u>Bedrock</u> - green - very fine to fine grained - foliated - carbonatized; 10-15% disseminated + stringer calcite - no visible sulphides inter matrix volcanic
6			01	
7			02	
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE Jan 21 1996 HOLE NO RR-96-#213 LOCATION site #4 ELEVATION 1130'
 GEOLOGIST P. Collins DRILLER R. Legault BIT NO. C8371107 BIT FOOTAGE 11.7-
 SHIFT HOURS _____ MOVE TO HOLE 1:05 - 1:15
 _____ TO _____ DRILL 1:15 - 5:00
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS _____
 _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0.0				0.0 - 1.5 organic - peat.
1.5				1.5 - 9.0 <u>Lake Agassiz Sediments</u> gray non-gritty slightly compact clay.
9.0				9.0 - <u>Lagreed Keewatin Till & Lake Agassiz Sediments</u> gray v. slightly gritty clay matrix. occasional non-gritty clay seam. Rare granule & pebble clasts: mainly limestone & sandstone. - below 15.0 m clay + clay till very slightly gritty to non-gritty clay. Rare small granule - pebble clasts.
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE Jan 21 19 96 HOLE NO R2-96-213 LOCATION Site #4 ELEVATION _____
 GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL _____
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

Pg 2 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				(20.0 - 21.0) clay: grey non gritty slightly compact clay.
22				(21.0 - 25.0) clay till + clay: similar to 15.0 - 20.0
23				(25.0 - 28.0) sand + clay: mainly poorly sorted very fine grading to fine grained sand with lesser nongritty clay / silt interbeds
24				
25				
26				28.0 - 28.6 <u>Labradorian Till</u> unsorted grey silt to fine sand matrix. Pebble and cobble sized clasts of composition: 70% Volcanics & sediments; 30% granitoids.
27				
28		01		
29		02		
30				28.6 - 30.0 Basalt - med green - fine grained - strong foliation. linearly sheared ie. presence of slip planes in places (v. minor) (FeO staining) 10-15% disseminated shingle calcite. Trace of disseminated pyrite. Trace hematite stain along calcite shingles in places
31				
32				
33				
34				
35				
36				
37				Basalt
38				30.0 E.O.H.
39				
40				

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE Jan 21, 22 1996 HOLE NO RR-96-214 LOCATION Site # 3 ELEVATION 1130'
 GEOLOGIST P. Collins DRILLER R. Lagault BIT NO. CB31107 BIT FOOTAGE 41.7-76
 SHIFT HOURS _____ MOVE TO HOLE 5:00 - 5:30 Jan 21 1st
 _____ TO _____ DRILL 8.45 - 1:30 + warmup.
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER Travel 21st 5:30 - 6:45 pm 7:30 - 9:45 22nd
 _____ MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				0.0 - 2.0 organics - peat
1				
2				2.0 - 8.0 <u>Lake Agassiz Sediments</u> mainly grey with occasional organic rich layer (black-beige) non gritty clay.
3				
4				8.0 - <u>Layered Keewatin Till</u> + <u>Lake Agassiz Sediments</u> .
5				(8.0 - 10.0) grey slightly gritty to gritty clay rich matrix
6				Few small gravel / pebble sized clasts mainly limestone & sandstone - lesser granite
7				
8				(10.0 - 17.6) clay till / clay: as above with fewer clasts less grit and intergrading with non gritty clay layers
9				
10				
11				(17.6 - 18.2) pebbly sand: mainly sorted fine to medium grained sand. granule & pebble clasts. Dominantly sandstone / limestone as in till.
12				
13				
14				(18.2 - 29.5) clay till / clay similar to 10.0 - 17.6
15				
16				
17				
18				
19				
20				

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE Jan 21, 22 19 96 HOLE NO RR-96-214 LOCATION Site #3 ELEVATION 1130
 GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL _____
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

Pg 2 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				(29.5-31.0) mainly grey poorly sorted (silty) v.f. grain sand with occasional clay layers.
22				31.0 - 33.0 <u>Labradorian Till</u>
23				grey silt to fine sand matrix. (Matrix supported).
24				Cobble clasts of composition:
25				70% Volcanics & Metasediments;
26				30% granitoids
27				at intervals 31.8 - 32.0 &
28				32.4 - 32.7 there is abundant reddish brown clay rock powder lumps probable saprolite.
29				32.7 - <u>clay till</u> : gradually clay rich matrix (grey to greenish beige rock powder) fewer till clasts. becomes more compact down interval. Below 33.0 extremely compact - no clasts visible - saprolite bedrock.
30				* at ~33.0 m pull 5 rods to loosen up hole (too much torque) at 33.4 bit plugged pull rods & unplug bit - trip down.
31			01	
32			02	
33			03	
34				33.0 - 35.0 <u>Bedrock</u>
35				To 34.3 green and rusty (limonitic) rock powder-clay with ~ 5% competent volcanic rock chips and occasional hematized quartz fragments
36				below 34.3 increase in rock chips still weathered for the most part - weakly foliated with 3" to 4" calcite stringers
37				- some o.B. contribution in sample
38				weathered basalt
39				35.0 E.O.H.
40				

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE Jan 22, 1996 HOLE NO RE-96-215 LOCATION Site # 2 ELEVATION 1132'
 GEOLOGIST P. Collins DRILLER R. Legault BIT NO. C671107 BIT FOOTAGE 76.7'
 SHIFT HOURS _____ MOVE TO HOLE 1:30-1:50
 _____ TO _____ DRILL 1:50-5:40 PM (22nd) 8:30-11:15 (23rd) + warm up.
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____ (very cold -38)
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER Travel 5:40-6:45 (22nd) 7:30-8:30 (23rd)
 _____ MOVE TO NEXT HOLE _____

Pg 1 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0.0 - 1.0 Organics - peat mass
2				1.0 - 2.6 Lake Agassiz Sediments grey, with occasional brownish organic rich layer, non gritty clay.
3				2.6 - 24.6 Layered Keewatin Till and Lake Agassiz Sediments
4				(2.6 - 8.6) grey, slightly gritty, clay rich till. Sparse pebble clasts mainly sandstone
5				(8.6 - 9.4) glacial fluvial: pebbly sand - sorted fine to med. grained sand. Grains of pebble clasts of composition: 60% metamorphic sandstone / limestone; 40% volcanic & granitoids. *Wood chips are present.
6				(9.4 - 24.6) clay till/clay: negligible grit to non gritty clay. Very sparse sediment clasts as above.
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 22nd 1996

HOLE NO RR-96-215 LOCATION _____ ELEVATION _____

GEOLOGIST _____ DRILLER _____ BIT NO _____ BIT FOOTAGE _____

SHIFT HOURS _____ TO _____

MOVE TO HOLE _____

DRILL _____

TOTAL HOURS _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS _____

OTHER _____

MOVE TO NEXT HOLE _____

Pg. 2 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				<p>24.6 - 30.6 <u>Labradorian Till</u></p> <p>beige - light olive (due to rounded saprolite) silt to fine sand matrix. Olive rock powder - clay lumps in places.</p> <p>Cobble sized clasts of composition: 70% Volcanics & sediments; 30% granitoids. *Many of the clasts are strongly sheared up to 4% disseminated pyrr. in some chips (25.5 - 28.4) mainly reddish.</p> <p>olive (hematized) clay lumps clay rich matrix. Cobble clasts of composition: 60% Volcanics & sed; 40% granitoids at 28.0 strongly sheared felsic volcanic with 12% diss. pyrr.</p> <p>(28.4 - 29.2) boulder - granitoid felsic</p> <p>(29.2 - 30.3) <u>Till</u>: clast supported cobbles of composition 85% granitoids 15% volcanics & sediments. Very little sand matrix.</p> <p>(30.3 - 30.4) <u>Till</u>: similar to 25.5 - 28.4 again with sheared volcanic clasts present.</p>
22				
23				
24				
25			01	
26			02	
27			03	
28			04	
29			05	
30				
31				
32				
33				
34				30.6 - 32.5 <u>Bedrock</u>
35				reddish olive (occasional light olive wisps in clay) saprolite - Fe rich zone. No rock chips present.
36				Saprolite
37				32.5 E.O.H.
38				
39				
40				

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE Jan 23 19 96 HOLE NO RR-96-216 LOCATION Site #1 ELEVATION 1133'
 GEOLOGIST P Collins DRILLER R Legault BIT NO. C671107 BIT FOOTAGE 109.2 + 00'
 SHIFT HOURS _____ MOVE TO HOLE 11:00-11:15
 _____ TO _____ DRILL 11:15 - 1:00
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0.0 - 0.8				Organics - Peat moss
0.5 - 3.0				Lake Agassiz Sediments charcoal grey to beige (below 1.7m) organic rich clay.
3.0 - 19.6				Layered Keewatin Till + Lake Agassiz Sediments (3.0-5.0) beige to grey gritty clay with matrix. Small pebble sized clasts mainly unmetam. Sandstone & limestone; 20% Vol. ^{fragm} beds / granitoids. (5.0-9.6) very slightly gritty to non-gritty in places. Same clast composition as above (9.6-10.0) gravel: bed of rounded subrounded granule & pebble clasts. 70% rounded SS / limestone; 30% (volume) granitoids. (10.0-11.8) similar to 5.0-10.0 (clay/clay till) (11.8-14.8) clay: grey non-gritty clay -> no clasts (14.8-19.0) clay / clay till: similar to 5.0-10.0m. (in places clay quite gritty with increase in clast content).
19.6 - 20.0				Labrador green Till Thin horizon of till? more like bedrock outble. 95% matrix volcanic cobbles; 5% granitoids. Very little grey-green silt to fine sand matrix. * Sample 01 undersized. 20.0 - 21.7 <u>Bedrock - basalt</u>
				<ul style="list-style-type: none"> - medium green - fine grained, foliated - matrix calcite - 1% disseminated calcite - below 21.4m up to 10% qtz / carb. veinlets in places - no visible sulphides

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

Page 2

DATE _____ 19 _____ HOLE NO RR-96-234 LOCATION _____ ELEVATION _____
 GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL _____
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21	△			
22	△			
23	△			
24	△			
25	△			
26	△			
27	△			
28	△			
29	△			
30	△			<p>≈ 30.5-35.1 (vols temporarily plugged so exact upper cut not known) AGASSIZ SEDIMENTS Uniform grey clay as upper section. No veneer of sand grains.</p>
31				
32				
33				
34				
35	△			
36	△			
37	△			
38	△			
39	△			
40	△			

≈ 30.5-35.1 (vols temporarily plugged so exact upper cut not known)
 AGASSIZ SEDIMENTS
 Uniform grey clay as upper section. No veneer of sand grains.

35.1-38.7 LABRADUREAN TILL
 Cobble, clast supported, unsorted.
 Matrix grey-beige fine silty sand.
 35.5-35.7 Granitic gneiss boulders (not sampled)
 35.1-35.5 and 35.7-36.5 clasts are subequal granitic + volc/ced; fine shale.

36.5-38.7 Volc/ced component jumps to 70%, half of which show slight to rarely strong segregative weathering, usually oxidation, usually blue reduced colours. Shale jumps to 3-5%; variously light grey, lesser dark green, mason, but falls to zero last half meter. Cobble, not clast-like. Collected extra +10 gabbie bag.

RR-96
234-01
02
03 (and +10 bag)
04 Shale

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

Page 3

DATE _____ 19 _____ HOLE NO RR-96-234 LOCATION _____ ELEVATION _____
 GEOLOGIST _____ DRILLER _____ BIT NO. _____ 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
		04 shale (cont'd)		
41		05 shale		38.7-45. SHALE Green 38.7-40.2, mostly ground to green clay with only few small shale chips (app. as to intensive shale section). 5-10 cm gray crystalline q.v. at 40.0; special vial of sample collected.
42		06 shale		
43		07 shale		
44		08 shale		40.2-43. Variegated green and khaki shale but still mostly green.
45		09 shale		43.1-43.7 Strong red-ochre oxidation superimposed on green shale.
46		10 shale		43.7-44.2 Grey with minor red-ochre oxidation zones.
47		11		44.2-45.3 Red-ochre oxidation superimposed on grey-green shale.
48		12		45.3-48.1 REDBED SANDSTONE + SHALE
49		13		45.3-45.7 Fine ^{fissile} red sandstone with interbedded grey to mostly red shale.
50		14		45.7-46.5 Very red sandstone, mostly reduced ^{fine fissile} in lumps of clay milled from shale with ^{Possibly} sand shale interbedding. ^{Although sandstone chips are fully clay cemented too.}
51		15		46.5-48.1 As above, brick red shaly or clay-attended ^{fine fissile} sandstone with grey crystalline 10 cm q.v. in green reduced envelope at 47.2 (special sample vial collected).
52		16		48.1-48.7 Blue reduced shale, no native Cu.
53		17		48.7-49.7 Redbed fissile shaly sandstone, variably red to dark brown, interbedded with blue reduced shale.
54		18		49.7-50.2 Blue reduced shale, No Native Cu.
55		19		Note: It is only the sandstone green that are oxidized red (i.e. red beds); the shales are green, blue + gray reduced primary colours with the local red or brown overprinting.
56		20		50.2-51.3 Variegated blue + brown shale.
57		21		51.3-51.7 Interbedded brown siltstone + metallic grey shale.
58				51.7-52.2 Metallic grey shale.
59				52.2-61.2 DOMINANTLY REDBED SANDSTONE
60				52.2-55.2 Shaly or clay-attended red sandstone, fine, locally with primary green colour evident (i.e. mottled rock). Sand grain size sufficient size (med. sand 0.2-0.3mm) to observe greywacke comp. and the rising possibility of synglacial basement greywacke rather than Jurassic redbed sediment. However all cuttings are very uniform with no evidence of mechanical energy or clay cementation, etc. and texture is simple to that of normal. Primary water except for fissility which may be result of clay infilling/attrition to retained loadings. Also red alt is controlled by sediment size (sand), therefore evidently by primary permeability.

Note: All samples were returned more as clay lumps and sparse coarse cuttings although recovery was always > 50%. Collected on the 11c lumps + cuttings except took a bulk sample of:
 a) Samples 11 to 14 combined
 b) Samples 17 and 18 combined
 c) Samples 19 and 20 combined
 d) Samples 20 + 21 combined

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19 ____ HOLE NO RR-96-234 LOCATION _____ ELEVATION _____
 GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL _____
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
61			22	55.2-55.5 Grey shale with brown mottling probably controlled by permeable silty layers
62			23	55.5-61.2 Shaly or clay-altered red sandstone as 52.2-55.2. Sand grains locally increase to 0.2-0.3 mm reducing fissility. Primary green colour preserved 57.2-57.4 and several narrower zones thereafter. Oxidation generally lightens in this section, is often more yellow-ochre than red-ochre. Coherent rock cuttings remain sparse and rock seems to break either along fissility planes or around sand grains; however by 61.0 m chips seem fractured and can no longer be broken along fissility planes by finger pressure suggesting basement grey shale/siltstone. Collected special pack of sandstone with hand specimen.
63				
64			24	61.2-61.4 Green and red shaly or clayey quartz, possibly saproductite.
65				61.4-65.4 <u>ARCHEAN BASEMENT</u> Many green cuttings in soft-milled clay, initially green to 62.0m, then pale khaki; then grey by 64.3 with very few coherent cuttings. <u>SILTSTONE/GREYWACKE</u> medium grey-green cuttings. Well fol. to semi-schistose; if weathered might seem fissile as in above red bed sandstone, and might break around instead of through sand grains. Fine sandy to silty texture; individual grains rarely resolvable. Chl. & qtz. No of inlets or coarse grained metamorphic segregations that would serve to distinguish from fossiliferous red bed sandstone. Left rods at 65.4 overnight Feb. 12, checked cuttings by binoc. microscope, determined hole had reached basement, pulled rods Feb. 13.
66				
67				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 13 1996
SHIFT HOURS _____
TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-96-235 LOCATION Site 105 ELEVATION as hole 23
GEOLOGIST Ansell DRILLER Legault BIT NO. 71131 BIT FOOTAGE 0-46.2
MOVE TO HOLE 9:30-11:00
DRILL 11:00 - 315
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER Travel: 7:30-8:30; pull rods H# 234 8:30-9:30
MOVE TO NEXT HOLE 3:15-4:30 move out to road for float
8:00 am tomorrow

NEW BIT

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	^ ^			0-4.1 <u>Organics: Peat</u>
1	^ ^			
2	^ ^			4.1-12.7 <u>Lake Agassiz Sediments</u>
3	^ ^			<u>clay: Grey, massive,</u>
4	^ ^			<u>uniform, no grit or</u>
5	^ ^			<u>pebbles. No variation</u>
6	^ ^			<u>in colour, no varves.</u>
7	^ ^			
8	^ ^			
9	^ ^			
10	^ ^			
11	^ ^			
12	^ ^			
13	/ Δ			12.7-28.9 <u>Kewatin Till</u>
14	/ Δ			<u>clayey grey matrix, unsorted</u>
15	/ Δ			<u>with abundant grit</u>
16	/ Δ			<u>and 1-2% limestone</u>
17	/ Δ			<u>pebbles. Exact upper contact</u>
18	/ Δ			<u>is uncertain - rods plugged</u>
19	/ Δ			14.6-16.8 <u>no noticeable grit or pebbles</u>
20	/ Δ			<u>may be clay seam or till</u>
	/ Δ			<u>with very sparse pebbles.</u>
	/ Δ			<u>exact location uncertain</u>
	/ Δ			<u>- rods plugged</u>
	/ Δ			<u>below 16.8, clay till as</u>
	/ Δ			<u>above.</u>

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19 _____ HOLE NO RR-96-235 LOCATION _____ ELEVATION _____
 GEOLOGIST _____ DRILLER _____ BIT NO _____ BIT FOOTAGE _____
 SHIFT HOURS _____ TO _____ MOVE TO HOLE _____
 TOTAL HOURS _____ DRILL _____
 MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 MOVE TO NEXT HOLE _____

pg 2 of 3







DEPTH METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21	/ Δ			28.9-38.0 <u>Lake Agassiz Sediments</u> clay: grey, massive, uniform no grit or pebbles as above. exact position of contact uncertain because of delayed return.
22	/ Δ			
23	/ Δ			
24	/ Δ			
25	/ Δ			38.0-41.3 <u>Kabradorean Till</u> unsorted grey-buff matrix, some blue-green granules, matrix silt to sand, A few cobbles initially, drilling smooth, cobbles increasing in frequency below 38.7 but till remains matrix-supported down hole to bedrock. No shale clasts. 80/20: volcanics/ granitoids. Some light green sheared clasts - appear to be chlorite - sericite schist. 5% diabase clasts 38.7-38.9: basalt boulder.
26	/ Δ			
27	/ Δ			
28	/ Δ			
29	/ Δ			
30	/ Δ			
31	/ Δ			
32	/ Δ			
33	/ Δ			
34	/ Δ			
35	/ Δ			
36	/ Δ			
37	/ Δ			
38	/ Δ			
39	/ Δ			
40	/ Δ			
		RR-96:	01	
			02	

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE _____ 19 _____ HOLE NO RR-96-235 LOCATION _____ ELEVATION _____
 GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
 MOVE TO HOLE _____
 DRILL _____
 MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

SHIFT HOURS _____
 TO _____
 TOTAL HOURS _____
 CONTRACT HOURS _____

pg. 3 of 3

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
41		AR-16 0.3		41.3: Saprolitic blue clay - may be rock flour.
42		Bedrock		41.4: <u>Bedrock</u>
43		-10		-46.5 chlorite-sericite schist material very soft - return is clumps of rock flour with undetermined proportion of chlorite to sericite. -10 mest sample taken to illustrate fine grained nature of return & provide sample for native copper determination.
44				Occasional quartz grains to 5mm were observed, some with tourmaline alteration. Mafic content < 40%. Several of the more competent chips have stained and flattened feldspar and quartz grains.
45				The bedrock drilled easily, therefore 5.2m were sampled in an attempt to obtain identifiable chips.
46				May be sheared equivalent of sample of selected chips taken throughout section.
47	EOH			
48				
49				
50				
51				
52				
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60				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 16 19 96

HOLE NO RR-96-243 LOCATION Site # 43 ELEVATION 1200'

SHIFT HOURS
2:00 TO 4:00

GEOLOGIST A. IVANOFF DRILLER Legault BIT NO. CB1132 BIT FOOTAGE 48.1-51

TOTAL HOURS

MOVE TO HOLE 1:15 to 2:00 Now: 71127 Now: 0-1m

CONTRACT HOURS

DRILL 2:00 to 3:45

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER Drill bit #1132 had been replaced by CB71127 after 3 meters.

MOVE TO NEXT HOLE In order to sample more of the Labradorian Till we redrilled 5 meters east from this hole. The results of this second hole is Logged on Page 2.

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1		RR-96-243		<u>0-1.4 KEEWATIN TILL</u>
2		01	- chocolate brown to oxidized light ochre	
3		02	- very gritty and clayey matrix	
3		03	- sparse, small limestone pebble clasts	
4		02		<u>1.4-2.4 LABRADOREAN TILL</u>
5				- fine sand grey-beige matrix
6				- very little matrix return throughout (may be due to washing)
7				- clast supported cobbly Till
8				- volcanic clasts are dominant.
9				<u>1.6-2.1 volcanic Boulder</u>
10				- dark green-black basalt
11				- not sampled - 1.7-2.1.
12				<u>2.1-2.4 cobbly till</u>
13				95% mafic volcanics
14				5% granitoids
15				<u>2.4-4.0 BEDROCK</u>
16				- dark green to black, aphanitic rock
17				- melanocratic, massive
18				- fine disseminated sulfides (pyrite)
19				- no signs of weathering
20				BASALTIC Rock
21				<u>3.1-3.4 - still aphanitic</u>
22				- seems to be slightly bleached
23				- good foliation
24				- appears to be weakly sheared
25				- slightly more disseminated sulphides
26				- sparse oxidizing mineral (hematite) on some foliation planes
27				<u>3.7-4.0 - sparse oxidizing (yellow-red) staining on cleavage? planes.</u>
28				<1% felsic phenos (feldspar?)
29				- Calcite veining at 3.8 (effervescent in HCl)

← when sampling RR-96-243-01 the may have been some Keewatin t contamination from the top of the sampling interval.

← Only 1/4 of a sample bag was recovered for sample 243-01

← some small metal chips from drill bit was recovered along with the sample return. (very indurated rock)

← at 3 meters, the rods were pulled and the drill bit was replaced. New Bit: CB 71127

OVERBURDEN DRILLING MANAGEMENT LIMITED
 REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb. 16 19 96

HOLE NO RR-96-243B LOCATION Side # 43 ELEVATION _____
 GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE 1.0-3.4

SHIFT HOURS _____
 TO _____

MOVE TO HOLE _____
 DRILL 3:45 to 4:30

TOTAL HOURS _____

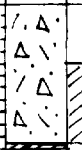
MECHANICAL DOWN TIME _____

CONTRACT HOURS _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0-2.3		243B 01		<p><u>KEEWATIN TILL</u></p> <ul style="list-style-type: none"> - oxidized light ochre matrix - sparse grit. - mixed limestone and volcanic pebble clasts. <2> 1's; <2> volcanics
2.3-2.4				<p><u>Bedrock</u></p> <ul style="list-style-type: none"> - same as what was logged on page 1
<p><u>Note:</u></p> <p>Unfortunately no Labradorian Till was intercepted in this second hole. However, due to the few volcanic pebble clasts found in the Keewatin Till (probable mixing with a pre-existing Labradorian Till), a sample (243B-01) was taken from the Keewatin Till.</p>				

Re-drilled 5 meters east from the original hole (#243) in order to sample more of the Labradorian till.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 12/02/1996
SHIFT HOURS _____
TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-96244 LOCATION Site 44 ELEVATION 1165
GEOLOGIST Small DRILLER Logan BIT NO. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL 8:30-12:00
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE 12:00-12:30

pg 1 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0-0.1				Organic top soil
0.1-				<u>Kewatin Till</u> : unsorted, silty clay matrix, oxidized, bidge to 1.8, slate grey beneath; abundant grit, 5% limestone pebbles, decreasing downhole to coarse grit, <1% pebbles by 1.9
2.1-2.2				clay seam: uniform grey clay, no silt, grit or pebbles
2.2-7.4				uniform grey clay & buff silt matrix with very sparse grit and pebbles
7.4-16.1				<u>Intercalated Kewatin Till and Lake Agassiz Sediments</u> (seams dominantly pebbly seams at 8.2 and 8.8)
9.1-9.2				tonalitic cobble (ice rafted)
9.2-12.2				character of till changes abruptly below tonalite cobble; matrix now a mixture of 60% clay, 10% silt and 30% fine-medium sand with 71% limestone pebbles abundant grit and some limestone cobbles. No volcanic or granitic clasts or matrix. Drills slowly. clay seams at 11.1 and 12.2; very sandy, somewhat between 11.8 and 12.0 consisting of medium & coarse moderately sorted limestone sand (vacuolitic) minor till seams
12.6-14.9				unsorted, matrix is 75% clay, little silt, very sparse occasional grit and pebbles. Some buff mottling indicates possible carves. Probably lake Agassiz sediments.
14.9-16.1				typical Kewatin till with 1% limestone pebbles
Note:				The sequence between 7.4 and 14.9 appears to represent dynamic interaction between Lake Agassiz and the Kewatin Lobe.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19 ____ HOLE NO RR-96-244 LOCATION Site 44 ELEVATION _____
 GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL _____
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

pg 2 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				16.1-18.7 <u>Lebradorean Till</u>
2				- unsorted grey silt and fine sand matrix with minor beige silt
3				- matrix supported
4				- clasts 40-100 volcanic: granitoid some granitic pebbles, 2%
5				feldspar phyric basalt clasts with massive sulphide veining (to 4mm wide)
6				- basalt cobbles, some with pyrite veining, trace of Quartz vein material
7				with pyrite nod, tourmaline
8				- some sheared but unbleached basalt clasts with pyrite cubes to 10mm
9				17.2-18.3 basalt boulder
10				- dark green sheared basalt with chloritized pyroxene in felsic groundmass
11				- pervasive calcite alteration of plagioclase
12				- calcite veins to with disseminated pyrite
13				- pervasive and fracture related hematite staining
14				18.3-18.7 basal till: matrix as above
15				clasts to 95% sheared basalt quickly becoming basal rubble of very local derivation.
16				18.7-20.2 <u>Bedrock</u>
17				- dark green sheared basalt with chloritized pyroxene in felsic groundmass
18				- minor calcite alteration of groundmass feldspar
19				= far less extensive alteration than that of boulder.
20				- trace of calcite veining
				- 1% disseminated pyrite, minor pyrite stringers
				- pervasive hematite staining, some hematite alteration of py
				19.4: slight, temporary increase in calcite veining
				20.2 minor Keweenaw contamination
				Hole making water: plugged with one log

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 20/2 19 96 HOLE NO RR-96-248 LOCATION Site 59 ELEVATION 1140
 GEOLOGIST Ansell DRILLER Legault BIT NO. 71122 BIT FOOTAGE 0-74.0
 SHIFT HOURS _____ MOVE TO HOLE 10:30-10:45
 TO _____ DRILL 10:45-130
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 MOVE TO NEXT HOLE 1:30-1:45

pg 1 of 3 New Bit

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	^^			0-3.9: <u>Organic</u> : very little return - mostly peat
1	^^			
2	^^			3.9-5.1: <u>Kewatin Till</u> uniform, unsorted, gritty slate grey clayey matrix with silt and sparse limestone pebbles No oxidized zone in till
3	^^			
4	^^			
5	^^			5.1-6.1 <u>Kewatin Till and Lake Agassiz sediments</u> return consisted of 2 components: soft, oxidized brown clay and moderately sorted silt and fine sand / few pebbles. - appeared to be ice rafted clay and pebbles interlayered with high lacustrine silt and sand
6	^^			
7	^^			
8	^^			
9	^^			
10	△			6.1-9.0 <u>Lake Agassiz Sediments</u> uniform dense massive grey clay with minor silt. No grit or pebbles
11	△			
12	△			
13	△			9.0-38.9 <u>Kewatin Till</u> 9.0-10.9 very sandy till with grey clay and high silt matrix. Sample taken at 9.5m was washed & removed clay. The coarser material which remained consisted of 5% grey, unsorted silt, fine sand commonly found as matrix in Labradoran till, plus small volcanic clasts and granitoid pebbles. The remainder was silt & medium sized high carbonate and limestone pebbles. The till changed gradually downhole to typical Kewatin Till by 10.9.
14	△			
15	△			
16	△			
17	△			
18	△			
19	△			
20	△			

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 20 19 96

HOLE NO RR-96-249 LOCATION Site # 5B ELEVATION _____

GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____

SHIFT HOURS _____
TO _____

MOVE TO HOLE _____

TOTAL HOURS _____

DRILL _____

CONTRACT HOURS _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

Page 2 of 2.

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21	Δ / Δ			24.0-24.5 <u>AGASSIS SEDIMENTS</u> - medium-grey clay/silt matrix - soft, non-gritty - no evidence of varves.
22	Δ / Δ			
23	Δ / Δ			
24	Δ / Δ			24.5-25.4 <u>KEEWATIN TILL</u> - clayey, grey beige, matrix - < 5% limestone, large pebble clasts - < 1% volcanic pebble clasts
25	Δ / Δ			
26	Δ / Δ			
27	Δ / Δ			25.4-27.5 <u>LABRADOREAN TILL</u> - grey-beige silt/fine sand matrix - matrix supported - 70% volcanics (wide variation of volcanic clasts) - 20% sheared volcanics, porphyry, dacites, andesites) - 30% granitoids and metasediments
28	Δ / Δ			
29	Δ / Δ			
30	Δ / Δ			26.6-26.8 - 80% volcanic to 20 granitoid clast proportions. - < 1% quartz - good matrix - near clast supported
31	Δ / Δ			
32	Δ / Δ			
33	Δ / Δ			26.8-27.0 - melanocratic, volcanic Boulder - high traces of calcite and coarse pyrite
34	Δ / Δ			27.0-27.3 - poor matrix return - cobble supported - 95/5 volcanic to granitic clast ratio.
35	Δ / Δ			
36	Δ / Δ			27.3-27.5 transitional till to bedrock - volcanic (basalt) is dominant - dark grey-black foliated volcanic clasts.
37	Δ / Δ			27.5-29.0 <u>BEDROCK</u> - fine grain, weakly foliated, dark green to black volcanic rock. - traces of disseminated pyrite - mineral lineation and lamination. - white calcite in micro veins and ground mass.
38	Δ / Δ			
39	Δ / Δ			28.0-29.0 - < 2mm wide calcite veins (fractured system in bedrock?) - no visible sulphides - strong foliation - weakly bleached
40	Δ / Δ			

Sheared Basalt.

at 22.5m Pipe clogged.
5min delay to unplug pipe

RR-96
249
01
02
02
03

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE 20/2 1996
to 21/2/96
SHIFT HOURS _____
TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-96-250 LOCATION Site 57 ELEVATION 1140
GEOLOGIST Amull DRILLER Legault BIT NO. Z1122 BIT FOOTAGE 730-6
MOVE TO HOLE 4:30 - 4:45
DRILL 4:45 - 5:30 ; 9:00 - 10:45
MECHANICAL DOWN TIME 2 hr maintenance on pump
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE 10:45 - 11:00

page 1 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	^^			0-4.1 <u>Organic peat</u>
1	^^			4.1 - 5.6 <u>Leuwatin Till</u>
2	^^			section from 4.1 to 9.9 has similar elements & those in hole 248
3	^^			no oxidized zone, till matrix
4	^^			is uniform gritty grey clay
5	^A			and silt with 1% limestone
6	^A			pebbles and sparse grit
7	^A			5.6-7.9 <u>Leuwatin Till plus Labradorian-type material</u>
8	^A			This material is very similar to that occurring between 9.0-10.9 in hole 248 that is a beige, sandy matrix with coarse volcanic sand and beige limestone sand
9	^A			and 1% limestone pebbles.
10	^A			took sample labelled
11	^A			"Leuwatin till"
12	^A			7.9-9.9 <u>Lake Agassiz Sediments</u>
13	^A			uniform massive grey clay with minor silt no grit or pebbles
14	^A			9.9-27.4 <u>Leuwatin Till</u>
15	^A			typical Leuwatin with
16	^A			uniform slate grey clayey
17	^A			matrix with silt, sparse
18	^A			grit and <1% limestone
19	^A			pebbles.
20	^A			27.4-28.0 <u>Leuwatin Till plus Labradorian-type material</u> as at 5.6-7.9

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE _____ 19 ____ HOLE NO RR-96-250 LOCATION _____ ELEVATION _____
 GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL _____
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

pg 2 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21	/ Δ			28.0-29.1 <u>Lake Agassiz Sediments</u> uniform slaty grey clay with minor silt, no grit or pebbles.
22	/ Δ			
23	/ Δ			29.1-31.4 <u>Keewatin Till</u> as above (9.9-27.4)
24	/ Δ			31.4-35.4 <u>Labradorian Till and glaciolacustrine sediments</u>
25	/ Δ			
26	/ Δ			31.4-32.9: moderately sorted beige silt & fine sand containing at least 30% beige carbonate sand with occasional pebbly seams.
27	/ Δ			
28	/ Δ			32.9-35.2: intercalated till and sand - local traces of unsorted grey silt-fine sand matrix with granules of granitoids and volcanics
29	/ Δ			cobbles at 32.0 and 34.0
30	/ Δ			35.2-35.4: unsorted grey silt & fine sand matrix with clasts of 90/10 volcanics/granitoids, trace of green phyllite.
31	/ Δ			35.4-36.5 <u>Bedrock</u>
32	01			- sheared, dark green basalt
33	02			- slightly to moderately schistose
34	03			- feldspar phytic (to 1.0 mm)
35	04			- no visible pyrite
36				- minor carbonate alteration of both groundmass and phytic feldspar
37				- pyroxene replaced by chlorite
38				- minor quartz veining (2-3mm) with patchy carbonate
39				
30				

Hole making water - plugged with 1 bag

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE Feb 21 19 96
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-96-251 LOCATION Site # 56 ELEVATION 1120⁴⁰
GEOLOGIST A. IVANOFF DRILLER Legault BIT NO. _____ BIT FOOTAGE 109.5-138
MOVE TO HOLE 10:45 to 11:00
DRILL 11:00 to 12:45
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

Page 1 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1	△△			0-2.0 <u>Organics</u> - roots & peat
2	△△			2.0-17.1 <u>KEEWATIN TILL</u>
3	△△			- light ochre to beige oxidized matrix
4	△△			- very gritty
5	△△			- sparse, small pebble, limestone clast
6	△△			- occasional, rounded, volcanic pebble clast.
7	△△			6.3-11.6 - grey-beige, reduced, clayey matrix
8	△△			- good grit, dense
9	△△			- very sparse limestone pebble clasts
10	△△			- visible, limestone, coarse sand ~ 5%
11	△△			- occasional volcanic or granitic granule
12	△△			11.6-17.1 - medium-grey, soft clay matrix
13	△△			- very sparse grit
14	△△			- occasional, very small, limestone pebble clast (angular shape)
15	△△			17.1-21.6 <u>AGASSIS SEDIMENTS</u>
16	△△			- medium-grey clay/silt matrix
17	△△			- occasional sparse grit layer
18	△△			- rare light-beige silt sand varves
19	△△			21.6-23.8 <u>KEEWATIN TILL</u>
20	△△			- light grey-beige fine sand/silt matrix
				- < 1% irregular (angular) limestone pebble clasts
				- very good grit

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE Feb 21 1996 HOLE NO RR-96-251 LOCATION Site # 56 ELEVATION _____
 GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
 SHIFT HOURS _____ TO _____ MOVE TO HOLE _____
 TOTAL HOURS _____ DRILL _____
 CONTRACT HOURS _____ MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

Page 2 of 2

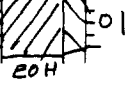
DEPTH METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				<p>23.8-27.7 LABRADOREAN TILL</p> <ul style="list-style-type: none"> - fine sand matrix (grey-green) - 60:40 volcanics to granitic ratio - matrix supported <p>23.8-24.3-coarse grained pink granitoid Boulder (qtz Monzonite or Granite)</p> <p>at 24.6 - sheared cobbles - < 5% white quartz</p>
22				
23				
24				
25				
25			RR-96 251 01	<p>25.2-27.0 - little return on fine sandy (grey-green) matrix (may be due to high amount of water being used during drilling)</p> <ul style="list-style-type: none"> - clay (gritty) lumps of ground up rock - 70:30 volcanic to granitic clast ratio - some 20% sheared sericite/chlorite cobble clasts. - near cobble supported. <p>27.0-27.4 - excellent grey-beige fine sand matrix</p> <ul style="list-style-type: none"> - near cobble clast supported to clast supported - < 5% white quartz in return <p>27.4-27.7 - enrichment up to 90% in intermediate volcanics</p> <ul style="list-style-type: none"> - mottled red oxidation on most volcanic clasts.
26			02	
27			03	
28			04	
29			05	
30				<p>27.7-29.2 BEDROCK</p> <ul style="list-style-type: none"> - dark green fine-grained volcanic - weakly foliated; lineation of slender dark green mineral (amphibole?) - sparse rusty pyrites (Fe oxides pseudomorph after pyrite) < 2mm size. - not calcareous (no reaction with HCl) - intercepted a clear qtz vein (< 2cm) at 28.2m - becoming more bleached at 28.3 - micro qtz veins with oxide staining at 28.5m. - intercepted a second qtz vein (~ 5% qtz in return) at 29.0m - light green (seems to have an intermediate alteration envelope around qtz veins) <p>Weakly sheared Basalt.</p>
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE 21/02 19 96 HOLE NO RR-96-252 LOCATION Site 267 ELEVATION 1120⁴⁰
 GEOLOGIST Ansell DRILLER Legault BIT NO. 31122 BIT FOOTAGE 28.2-49
 SHIFT HOURS _____ MOVE TO HOLE 1:30 - 1:45
 _____ TO _____ DRILL 1:45 - 3:00
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE 3:00 - 3:30

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	ΛΛ			0-3.6 <u>Organics: peat</u>
1	ΛΛ			3.6-7.8: <u>no +10 return</u>
2	ΛΛ			<u>water very silty, small</u>
3	ΛΛ			<u>amount of sand in scoop</u>
4	ΛΛ			<u>and in #1 bucket May</u>
				<u>be Lake Agassiz silt</u>
5	?			7.8-19.1 <u>Keweenaw Till</u>
6				<u>very uniform slate grey</u>
7				<u>clayey matrix with silt</u>
8				<u>sparsely grit < 1% limestone</u>
				<u>pebbles. No volcanic or</u>
				<u>granitic material.</u>
				<u>NO LABRADOREAN TILL</u>
9	Δ			19.1-20.1 <u>Bedrock</u>
10	Δ			- <u>dark green basalt with</u>
11	Δ			- <u>recrystallized groundmass</u>
12	Δ			- <u>medium amphibolite facies</u>
13	Δ			: <u>lots of black amphibole to</u>
14	Δ			<u>2mm in green felsic groundmass</u>
15	Δ			- <u>some compositional banding with</u>
16	Δ			<u>variable felsic/mafic ratios</u>
17	Δ			- <u>pervasive calcite alteration</u>
18	Δ			<u>of feldspar</u>
19	Δ			- <u>alignment of amphibole crystals</u>
20	Δ			- <u>no visible sulphides.</u>

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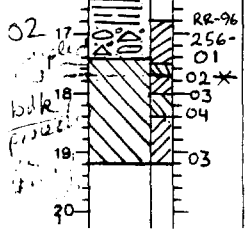


**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE Feb 22 19 96 HOLE NO RR-96-256 LOCATION Site #54 ELEVATION _____
 GEOLOGIST A. IVANOFF DRILLER Legault BIT NO. 7118 BIT FOOTAGE 0-19.2
 SHIFT HOURS _____ MOVE TO HOLE 12:00 to 12:30
 _____ TO _____ DRILL 12:30 to 2:00
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER New Rock Bit
 _____ MOVE TO NEXT HOLE 2:15 to 2:45

DEPTH METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG	New Rock Bit #CB7118					
0	△			<u>0-15.8 KEEWATIN TILL</u>						
1	△			- very gritty; clay/silt matrix						
2	△			- mixed, chocolate brown and light ochre, small, till lumps						
3	△			- abundant limestone pebble clasts (~20%)						
4	△			<u>3.0-14.3 - charcoal grey-beige clayey matrix</u>						
5	△			- thick, compact.						
6	△			- sparse to very sparse (at base) limestone pebble clast						
7	△			<u>14.3-15.8 - lighter grey-beige due to moderate grit content</u>						
8	△			- softer clayey matrix						
9	△			<u>15.8-16.8 AGASSIZ SEDIMENTS</u>						
10	△			- medium-grey clay rich matrix						
11	△			- poor grit; no varves.						
12	△			- soft, smooth to touch.						
13	△			<u>16.8-17.4 LABRADOREAN TILL</u>						
14	△			- fine sand, grey-beige matrix						
15	△			- pebbly (rounded) to cobbly clasts						
16	△			- clast supported						
17	△			- 80% volcanic clast (70% of these are strongly sheared, dark green and 30% are massive felsic to intermediate - dacites? & andesites?)						
18	△			- 20% granitoid clasts (granite, greywackes, monzonite?)						
19	△			- traces of saprolitic rock.						
20	△			- < 1% qtz and < 1% limestone clasts						
17.4	△			<u>17.4-19.2 BEDROCK</u>						
17.4-17.7	△			- Saprolitized schist, light green rock flour						
17.7-18.0	△			- 1/4 bag sample (256-02) - no vials						
18.0-18.4	△			- dark green, well foliated, fine-grained volcanic chips.						
18.4-19.2	△			- < 2% felsic volcanics & granitoids (continuation or basal rubble?)						
18.0-18.4	△			+ 60% volcanic as in 17.7-18.0 and 40% saprolitic material						
18.4-19.2	△			→ no saprolite						
18.4-19.2	△			→ strongly foliated, sheared, dark green volcanic rock.						

← needed to wash twice to collect a good size sample.



Note: interval 17.7-19.2 sampled in one bedrock bag RR-96-256-03
 - sample 256-04 is a vial sample (no bag)

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 22/02 19 96 HOLE NO RR-46-257 LOCATION Site 53 ELEVATION 1135⁴⁰
 GEOLOGIST Arnell DRILLER Legault BIT NO. 711B BIT FOOTAGE 19.2-4
 SHIFT HOURS _____ MOVE TO HOLE 2:30 - 3:00
 _____ TO _____ DRILL 3:00 - 4:30
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS _____
 _____ OTHER _____
 _____ MOVE TO NEXT HOLE 4:30-5:00

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	^ ^			0-0.6 <u>Organics: marsh</u>
1	/ Δ			0.6-6.0 <u>Keewatin Till plus Labradorian-type material</u>
2	/ Δ			<u>unsorted oxidized beige clayey matrix</u>
3	/ Δ			<u>changing downhole to slate grey</u>
4	/ Δ			<u>by 4.0 plus silt, lithic sand</u>
5	/ Δ			<u>with some volcanics and</u>
6	/ Δ			<u>2% limestone pebbles, lithic</u>
7	/ Δ			<u>sand content decreases</u>
8	/ Δ			<u>down hole and disappears</u>
9	/ Δ			<u>by 6.0</u>
10	/ Δ			6.0-17.6 <u>Keewatin Till</u>
11	/ Δ			<u>uniform compact slate</u>
12	/ Δ			<u>grey clayey matrix with</u>
13	/ Δ			<u>minor silt < 1% limestone</u>
14	/ Δ			<u>pebbles.</u>
15	/ Δ			<u>below 11.0 limestone</u>
16	/ Δ			<u>pebbles are very sparse with</u>
17	/ Δ			<u>occasional granules.</u>
18	/ Δ			17.6-20.1 <u>Lake Agassiz Sediments</u>
19	/ Δ			<u>uniform grey clay and</u>
20	/ Δ			<u>calcareous silt, no grit</u>
	/ Δ			<u>or pebbles.</u>
	/ Δ			20.1-20.94 <u>Lake Agassiz Sediments</u>
	/ Δ			<u>interbedded grey clay and</u>
	/ Δ			<u>fine grey green lithic sand with ^{being carbon}</u>
	/ Δ			<u>with 50/50 volcanic/pumitoid</u>
	/ Δ			<u>pebbles grading down hole</u>
	/ Δ			<u>to Labradorian till by 20.9</u>

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19 _____ HOLE NO RR-96-257 LOCATION _____ ELEVATION _____
 GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL _____
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
			RR-96-257	20.9 - 24.5 <u>Labradorian Till</u> <u>Spissalaculone bedrock</u>
21			01	- unsorted beige silt and fine sand matrix with occasional volcanic cobbles and exotic granite pebbles
22			02	- clast composition:
23			03	50/50: volcanic/granitoids
24			04	- changes down hole to sorted fine grey sand with rounded pebble seams between 21.6-22.0
25			05	- back to unsorted grey silt and coarse sand comprised of 50/50 volcanic/granitoids plus pebbles and cobbles some sheared volcanics
26				- 22.6-23.0 light green sheared volcanic clasts, little natural matrix, pyrite cubes 71mm
27				23.0-23.8 Boulder light green sheared volcanic
28				23.8-24.5: unsorted grey silt and fine sand matrix with 90/10 volcanic/granitoids the volcanics are 50/50: light green sheared volcanic/basalt
29				24.5-25.8 <u>Bedrock</u>
30				- highly sheared green basalt
31				- stretched and lined feldspars
32				mafics very fine grained
33				- disseminated pyrite to 2%
34				- quartz veins at 25.0-25.4
35				Hole making water - plugged with 1 log.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE Feb 29 18 96 HOLE NO RR-96-260 LOCATION Site # 52 ELEVATION 1140'
 GEOLOGIST P. Collins DRILLER R. Lagardt BIT NO 5971118 BIT FOOTAGE 728-97.8
 SHIFT HOURS 5:30-6:00 28th + 29th
 TO _____
 DRILL 8:00 - 10:30 + walk in from road
 TOTAL HOURS _____
 MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 CONTRACT HOURS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

DEPTH METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0		0.0 - 0.8m		Organic peat moss
1		0.8 - 17.6		<u>Keewatin Till</u> beige-ochre (oxidized) gritty clay rich matrix 5-10% pebble/clast component mainly limestone & sandstone. by 3.5 m. Below is an unoxidized gray 4.0 - 17.6 Till is very slightly gritty with sparse pebble clasts as above
2		17.6 - 17.8		<u>Labradoran Till</u> very fine till layer overlying bedrock. Gray silt to fine sand matrix. Clast composition 70% mafic volcanics; 30% Granitoids. * sample 01 is well undersized (surprise!) washed hole several times to obtain sample; thus 40% of clasts in sample are Keewatin till derived
3		17.8 - 19.0		<u>Bedrock</u> - dark green - medium grained - weakly foliated unshaded - main mafic chlorite + hornblende - equigranular interlocking texture - non-collocarous - no visible sulphide
4			01	
5			02	
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
				Basalt 19.0 E.O.H.

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE Feb 29th March 1 19 96

HOLE NO 86-96-262 LOCATION Site #8 Copper Hollow ELEVATION 1125
GEOLOGIST P. Collins DRILLER R. Lagault BIT NO. CB7 1118 BIT FOOTAGE 25.7 m

SHIFT HOURS
TO _____

MOVE TO HOLE 1:30 - 3:00

TOTAL HOURS

DRILL 3:00 - 5:45 Pm 8:05 - 11:15

MECHANICAL DOWN TIME _____

CONTRACT HOURS

DRILLING PROBLEMS _____

OTHER Travel 5:45 - 6:30 Travel 7:30 - 8:55 Am

MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0.0 - 1.0				organics - peat moss
1.0 - 6.8				Lake Agassiz Sediments grey & grey brown (organic rich in places), non-gitty, clay. Very slightly compact below 3.5 m.
6.8 - 21.5				<u>Keewatin Till</u> beige slightly oxidized gitty clay rich matrix. ~5% pebbly clasts mainly limestone & sandish with a few granitoids below till is very slightly gitty to non-gitty in places. Very few small pebbles granule sized clasts. Further till is grey in colour.
1				
2				
3				
4				
5				
6				
7				
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9				
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11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE Feb 29, 1946 ^{Monday}

HOLE NO RR-96-262 LOCATION Site # 8 ELEVATION _____

GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____

SHIFT HOURS _____ TO _____

MOVE TO HOLE _____
DRILL _____

TOTAL HOURS _____

MECHANICAL DOWN TIME _____

CONTRACT HOURS _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

Pg 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				21.5 - 23.7 <u>Lake Agassiz Sediments</u> clay grey non gritty appears to be varved in places.
22				
23				23.7 - 24.1 <u>Kawatin till</u> Thin horizon of clay till silt to 6.8-8.5 m
24				
25		01		24.1 - 31.2 <u>Labradorean Till</u>
26		02		(24.1 - 24.5) clay till: 60% green blue to khaki gritty clay lumps with silt to fine sand matrix
27		03		clast composition: 65% mafic volcanics 35% granitoids
28		04		(24.5 - 24.8) <u>Sandy till</u> : grey beige silt to fine sand matrix. Cobble sized clasts of composition: 65% mafic volcanics & metaseds; 35% granitoids
29		05		
30		06		(24.8 - 25.2) <u>Boulder - basalt</u>
31		07		(25.2 - 27.2) <u>Sandy till</u> : silt to 24.5-24.8. Many of the mafic volcanic clasts are well indurated, some are also clay altered.
32		08		
33				(27.2 - 29.4) <u>Till</u> : alternates between very clay rich matrix (in brief intervals) with silt to fine sand matrix. The clay rich segments are gritty by greenish-blue lumps that occur with clasts of differing lithology; these lumps are not clay altered clasts but part of matrix. overall clast composition is 75% volcanics 25% granitoids.
34				
35				(29.4 - 30.2) <u>Sandy till</u> : of similar composition to 27.2-29.4; some of the volcanic clasts appear to be altered below 30.0 m
36				
37				(30.2 - 30.6) <u>boulder - clay altered basalt</u> (blue green clay lumps = occ. of fragments)
38				
39				
40				

(30.6 - 31.2) Till: matrix mainly blue green clay lumps. Simultaneous return on close of varied lithologies: 70% volc./clasts; 30% granitoids.

31.2 - 33.0 Bedrock
mainly blue-green clay
few competent basalt chips
below 11.6 m also occasional impure; colorless clay (yellowish) - placed competent chips directly in matrix
- 13 veins of fractures between 32.5-32.7 Part till - Basalt.

33.0 E.O.H.

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE March 1 19 96 HOLE NO RK-96-263 LOCATION Site #10 ELEVATION _____
 GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL _____
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

Pg 2

DEPTH METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				22.0- 27.5 <u>LAKE AGASSIZ SEDS</u>
22				(22.0 - 25.7) <u>clay & Silt</u> : gray, smooth non gritty clay with occasional silty varves.
23				(25.7 - 27.5) gray, poorly sorted (silty) very fine to fine grained sand.
24				27.5 - <u>Labradorean Till</u>
25				mixed rusty ochre & bluish green clay lump matrix
26				Small cobble clasts of composition: 70% volcanic & sediments; 30% Granitoids.
27				(27.7-28.0) boulder - basalt
28			01	(28.0-28.5) Till as before: observed coarse grained pyrochite in couple of metres? clasts.
29			02	* washed interval several times to obtain a sample; there may be some mixing with glauconitic
30			03	Seds analyzing - in sample #01
31				28.5 - 30.4 <u>Bedrock</u>
32				- ochre (rusty brown) and pale-medium green.
33			- dominantly rusty clay lumps though there are chips mainly ochre with strong foliation.	
34			most of the chips return occurred in first half metre.	
35			- sampled twice for assay comparison.	
36			- hematite stain below 29.7m	
37			pyrochite - basalt. (clay at base)	
38			* sampled combined fines from Bales 02 & 03; bagged for possible table run.	
39				
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE March 1 1996 HOLE NO RH-96-264 LOCATION Site # 11 ELEVATION 1125'
 GEOLOGIST P. Collins DRILLER B. Legault BIT NO. CB71118 BIT FOOTAGE 189.6-214
 SHIFT HOURS _____ MOVE TO HOLE 2:30-2:45
 _____ TO _____ DRILL 2:45-4:30
 TOTAL HOURS _____ MECHANICAL DOWN TIME 4:30-6:00 mechanic checked motor to
 _____ DRILLING PROBLEMS change rpm's - no luck.
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

Pg 1 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0.0 - 3.0				0.0 - 3.0 <u>Organics - Peat/Moss</u>
3.0 - 6.5				3.0 - 6.5 <u>Lake Agassiz Sediments</u>
6.5 - 20.0				6.5 - 20.0 <u>Keewatin Till</u> beige-ochre gritty clay rich matrix. ~5% pebbles clasts mainly limestone & sandstone below 9.5m till matrix is very slightly gritty & even fewer clasts present.

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE March 1 1996
 SHIFT HOURS _____ TO _____
 TOTAL HOURS _____
 CONTRACT HOURS _____

HOLE NO RR-96264 LOCATION Site #11 ELEVATION _____
 GEOLOGIST P. Collins DRILLER R. Leggett 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				20.0 - 22.4 <u>Lake Agassiz Sediments</u> clay/silt grey, smooth, nongritty clay and silt (varied)
22				
23	0.0 0.1		01	22.4 - 26.3 <u>Labradorian Till</u> grey beige silt to fine sand matrix. Cobble clasts of composition: 75% mafic volcanics & meta sediments; 25% Granitoids
24	0.1 0.2		02	
25	0.2 0.3		03	
26	0.3 0.4		04	26.3 - 28.9 <u>Bedrock</u> - almost exclusively greenish white rock powder lumps, with approximately 1% quartz veins in form of chips - soft micaceous to talcy or clay altered probable protolith - mafic volcanic (27.7-28.0) quartz vein, vialled separately non calcareous, 28.9 E.O.H.
27				
28				quartz vein, separate vial
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE March 2 19 96 HOLE NO PK-96-265 LOCATION Site # 9 ELEVATION 1125'
 GEOLOGIST P. Collins DRILLER R. Legault BIT NO CB2118 BIT FOOTAGE 216.9
 SHIFT HOURS _____ MOVE TO HOLE 9:30-10:30 + clean mud tanks
 _____ TO _____ DRILL 10:30-1:30
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0.0				0.0-1.0 Organics Peat moss
1.0				1.0-6.5 <u>Lake Agassiz Sediments</u> initially beige-red oxidized to grey, smooth, non-gritty clay.
2.0				
3.0				
4.0				6.5 <u>Kaewatin Till</u> beige-gray gritty clay rich matrix. 5-10% pebble clasts composed mainly of limestone & sandstone.
5.0				
6.0				
7.0				(8.5-15.8) <u>clay fill</u> : very slightly gritty to non-gritty clay rich matrix. Very few small pebbles, granule clasts as above.
8.0				
9.0				
10.0				(15.8-16.2) <u>sand</u> : sorted, beige fine grained sand bed.
11.0				
12.0				(16.2-17.2) <u>clay Till + sand</u> : clay fill as before into bedded with poorly sorted & sorted beige fine grained sand. (does not appear to be till matrix).
13.0				
14.0				(17.2-19.0) <u>clay fill</u> similar to 8.5-15.8.
15.0				
16.0				19.0-21.8 <u>Lake Agassiz Seds</u> clay gray smooth non-gritty clay and silt varves.
17.0				
18.0				
19.0				
20.0				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE March 2 19 96
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RL-96-265 LOCATION Site # 9 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				21.8 - 22.2 <u>Kashwin Till</u> clay till similar to 8.5-15.8
22				22.2 - 28.0 <u>Labradorian Till</u> at very beginning of interval for ~ 15 cm there was abundant khaki clay lumps. The matrix grey silt to fine sand matrix supported till. Cobble clasts composed of 70% mafic volcanics (meta cals; 30% granitoids. many of the mafic volcanics are well foliated - weakly sheared often with gty veinslets. (barren) (25.3 - 26.4) <u>clay rich matrix</u> khaki - brown blue-green gty clay lumps. fewer clasts of similar composition to above. (26.4 - 27.3) <u>sandy matrix</u> supported till as in 22.2-25.3 (27.3 - 28.0) <u>clay till</u> similar to 25.3-28.0 + drilled few supradite clay cobbles in addition to matrix clay.
23		01		
24		02		
25		03		
26		04		
27		05		
28		06		
29				29.0 - 29.7 <u>Bedrock</u> (28.0 - 28.6) pale grey white supradite rock clay 28.6 - 29.7 ph grey w green slightly consolidated rock chips (clay at base) v. weakly foliated, appear to have clastic texture with relict gty / clay sand? no visible sulphides, non calcareous. Graywacke or mafic vol. 29.7 E.O.H.
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE March 2 19 96 HOLE NO RL-96-266 LOCATION 10m west of site #7 ELEVATION 1122'
 GEOLOGIST P. Collins DRILLER R. Lagault BIT NO. C871112 BIT FOOTAGE 2466-274
 SHIFT HOURS _____ MOVE TO HOLE 1:30-7:45
 _____ TO _____ DRILL 1:45-4:00
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0.0				0.0 - 1.2 <u>Organic Peatmoss</u>
1				1.2 - 7.0 <u>Lake Agassiz Sediments</u>
2				<u>grey & grey brown (organic rich)</u> <u>soft non gritty clay</u>
3				7.0 - 20.5 <u>Keewatin Till</u>
4				<u>grey gritty clay matrix</u> <u>few small pebbles clasts</u> <u>mainly limestone & sandstone</u>
5				<u>(8.3 - 20.5) very slightly</u> <u>gritty to non gritty clay matrix</u> <u>v few clasts as above</u>
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 March 2 1996
SHIFT HOURS _____
TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-96-266 LOCATION 100m west site # 7 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				20.5 - 22.0 <u>Lake Agassiz Sediments</u> varved grey smooth non gritty clay & silt
22				22.0 - 26.4. <u>Labradorian Till</u> grey silt to fine sand with up to 40% khaki gritty clay lumps matrix. Cobble sized clasts of composition: 70% mafic volcanics & meta sed; 30% granitoids.
23		01		
24		02		
25		03		
26		04		
27		05		
28				24.5 - 26.0 silt till matrix as above with clay lumps. Till near clast supported in places. - below 25.0 there are a few sheared & mineralized till clasts mainly volcanic. observed native copper in one basalt clast (untested).
29				
30				
31				
32				26.4 - 28.0 <u>Bedrock</u> - med in green - fine to med in grained - poorly foliated - unshaded - magmatic granular with loamy fests - main matrix chlorite - Tr. disseminated pyrr. - Tr. disse magnetite - non calcareous Basalt.
33				
34				
35				
36				
37				
38				
39				
40				

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE March 3 19 96
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-96-268 LOCATION Site #6c ELEVATION _____
GEOLOGIST P. Collins DRILLER P. Logant BIT NO 0871134 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			01	20.0 - 25.0 <u>Labradorian Till</u>
22			02	grey silt to fine sand matrix. Cobbley near clast supported of composition:
23			03	50% volcanic {sediments}; 50% Granitoids.
24			04	boulders at 20.7 - 21.0 tonalite
25			05	22.0 - 22.2 basalt
26			05	22.2 - 25.0 gravel: well washed no matrix. Subrounded pebbles also cobble clasts of composition
27				60% granitoids 40% volcanic { sed. Abundant return on clasts some of which are sheared & mineralized. abundant -10 mesh cutting in sample. #03.
28				
29				
30				
31				25.0 - 26.5 <u>Basalt</u>
32				- dominantly khaki & bluegreen clay lumps
33				- 10% competent chips (clay exposed)
34				- dark grey green
35				- weakly porphyritic texture plag. phenos in fine grain
36				- Trace disseminated sulphide?
37				- main matrix chlorite
38				Basalt.
39				26.5 E.O.H.
40				

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE March 3, 1996 HOLE NO RR-96-269 LOCATION Site # 65 ELEVATION 1122
 GEOLOGIST P. Collins DRILLER R. Legault BIT NO. CB71134 BIT FOOTAGE 64.0-102
 SHIFT HOURS _____ MOVE TO HOLE 3:15-3:30
 _____ TO _____ DRILL 3:30-5:45 3rd 8:30-11:15 (4th)
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS _____
 _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

Pg. 1 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0.0 - 0.5				0.0 - 0.5 organics - Peat moss
0.5 - 3.7				0.5 - 3.7 Lake Agassiz Sediments initially olive to grey below 1.5 m, smooth non gritty clay { silt varves.
3.7 - 11.8				3.7 - 11.8 Kewatin Till grey gritty clay rich matrix 5% pebble clasts mainly limestone & sandstone. 6.0 - 11.4 clay till: very slightly gritty sparse pebble clasts
11.8 - 18.5				11.8 - 18.5 Lake Agassiz Seds (11.8-13.3) sand: beige poorly sorted (silty) fine grained sand (13.3-18.5) clay: grey, smooth non gritty clay. Silt varves near bottom of interval.
18.5 - 37.2				18.5 - 37.2 Labradorian Till grey beige silt to fine sand matrix. Cobble clasts of composition: 55% volcanic & sediments; 45% granitoids
19.0 - 20.0			01	

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE March 3 19 96

HOLE NO RR-96-269 LOCATION Site #65 ELEVATION _____

GEOLOGIST _____ DRILLER _____ BIT NO _____ BIT FOOTAGE _____

SHIFT HOURS _____

MOVE TO HOLE _____

TO _____

DRILL _____

TOTAL HOURS _____

MECHANICAL DOWN TIME _____

CONTRACT HOURS _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

Pg 2 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21		02		22.3 - 23.0 gravel: well washed (no matrix) subrounded to rounded pebbles & cobbles
22		03		clast composition: 50% volcanics and sediments; 50% granitoids
23		04		23.0 - 23.7 gravel & sand: gravel beds of similar clast composition to above with sorted coarse & medium sand in the beds.
24		05		23.7 - 24.3 Sand: beige, sorted fine grained sand.
25		06		24.3 - 28.7 gravel: dominantly well rounded peanut shaped pebbles well washed little matrix occasional sorted sand bed.
26		07		clast composition: 50/50 as above
27		08		28.7 - 30.3 Till: cobble clast supported, yet still return on matrix silt to fine sand.
28		09		clast composition: 55% volcanics & sediments; 45% granitoids.
29		10		sulphides visible in some clasts and in matrix
30		11		30.3 - 34.8 gravel: similar to 23.0 - 23.7 with ~60% volcanics/sed.
31		12		mostly well washed occasional coarse sand matrix. yet also slightly unsorted matrix in places.
32		13		34.8 - 36.2 Till: good unsorted beige matrix supported till. silty fine sand rare clay lumps. More angular clasts, pebbles & cobbles of composition 50% volcanics & sed; 50% granitoids.
33				36.2 - 37.2 sand & gravel: sorted coarse sand matrix (beds) with rounded granule & pebble clasts of similar composition.
34				37.2 - 38.5 <u>Bedrock</u>

(37.2 - 37.8) mainly blue green rock clay lumps (sulphide)

(37.8 -) competent rock shaly mainly red green. Some oolite-nesty ~~clay~~ fractured - fine grained, clay altered, no visible sulphide probable pyrite

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE March 4 19 96 HOLE NO RR-96-270 LOCATION Site #64 ELEVATION 1122'
 GEOLOGIST P. Collins DRILLER R. Legault BIT NO C971134 BIT FOOTAGE 102.5-125
 SHIFT HOURS _____ MOVE TO HOLE 11:15-11:30
 _____ TO _____ DRILL 12:15-1:30
 TOTAL HOURS _____ MECHANICAL DOWN TIME 11:00-12:15 adjust Muttler cable.
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

Pg 1

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0.0 - 0.8 <u>Organics</u>
2				0.8 - 3.8 <u>Lake Agassiz Sediments</u> initially rusty grey (oxidized) to grey smooth n. gritty clay.
3				3.8 - 19.0 <u>Keewatin Till</u> grey gritty clay rich matrix 5% pebbles clasts mainly limestone & sandstone.
4				
5				
6				(6.7 - 19.0) very slightly gritty clay matrix (non-gritty upper)
7				Sparsely small pebbles as above
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE March 4 1996

SHIFT HOURS
____ TO ____

TOTAL HOURS

CONTRACT HOURS

HOLE NO RR-96-271 LOCATION site #63 ELEVATION 1122'

GEOLOGIST P. Collins DRILLER K. Legault BIT NO. C.B. 1134 BIT FOOTAGE 125.0-153

MOVE TO HOLE 1:30-1:45

DRILL 1:45-3:55

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

DEPTH METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0.0 - 1.0 organic peat moss
2				1.0 - 8.0 Lake Agassiz Sedts initially rusty grey (oxidized) } brown sandy clay to grey (2m) smooth, non-gritty clay fill varves.
3				8.0 - 22.0 Keewatin Till grey beige gritty clay rich matrix. pebble clasts of composition limestone & sandstone occasional granitoid.
4				13.0 - 22.0 very slightly gritty to non-gritty massive clay matrix Very sparse pebble clasts as above
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 March 4 19 96
SHIFT HOURS _____
TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-96-271 LOCATION Site #63 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				22.0 - 25.2 <u>Lake Agassiz Sediments</u> pale greenish gray clay with silty varves. occasional dropstone.
22				
23				25.2 - 28.0 <u>Labradorian Till</u> near chert supported. Gray beige silt to fine sand matrix. Cobble clasts of composition: 50% volcanic & sediments; 50% granitoids. below 26.3 chert composition changes to 65% volcanic 35% granitoids. Many of volcanic clasts are sheared.
24				
25				
26			01	
27			02	
28				
29			03	
30				
31				
32				
33				
34				
35				
36				29.5 E.O.H.
37				
38				
39				
40				

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE March 4, 1996
 SHIFT HOURS _____ TO _____
 TOTAL HOURS _____
 CONTRACT HOURS _____

HOLE NO RR-96-272 LOCATION Site # 62 ELEVATION 1122'
 GEOLOGIST P. Colby DRILLER R. Lape BIT NO. CD71119 BIT FOOTAGE 0.0-63
 MOVE TO HOLE 3:15-3:30 (4H)
 DRILL 3:30-5:45 (4H) 8:10-9:00 pm Mud 15th
 MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

New bit. B3104

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0.0				0.0 - 1.3 <u>organics - Peat</u>
1.3				1.3 - 8.0 <u>Lake Agassiz Sediments</u> grey, smooth, non-gritty clay & silt (rare)
8.0				8.0 - 20.0 <u>Keewatin Till</u> grey beige, gritty clay-rich matrix. 5-10% pebbly clasts mainly limestone & mudstone (10.0-20.0) very slightly gritty to non-gritty clay rich matrix. Sparse pebbly clasts as above.
20.0				

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE March 4 19 96 HOLE NO RR-96-272 LOCATION Site #62 ELEVATION _____
 GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
 SHIFT HOURS _____ TO _____ MOVE TO HOLE _____
 TOTAL HOURS _____ DRILL _____
 CONTRACT HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

Pg 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				22.8 - 25.3 <u>Lake agassiz Seds</u> greenish pale grey, smooth nonquilty clay with silt varves.
22				
23				25.3 - 62.8 <u>Labradorean Till</u> & <u>Glaciofluvial Sediments</u> cobble clast supported fill. Little silt to fine sand matrix clast composition 60% volcanic sediments / 40% Granitoids. * - initial 0.2 m there is green blue (khebi) quilty clay in matrix up to 40%.
24				
25				
26		01		
27		02		(27.0 - 28.8) abundant return of clasts & matrix. pervasive oxidation of clasts which imparts ochre silt to fine sand matrix cobble clast composition 50% volc/sed 50% granitoids.
28		03		
29		04		
30		05		(28.8 - 30.2) <u>cl</u> as above with ~ 5% quilty khebi clay lumps in matrix
31				(30.2 - 31.2) sand: sorted coarse grained sand.
32				
33				(31.2 - 41.0) sand & gravel: bedded sorted medium to coarse quartz sand, & gravel - pebbles/cobbles clasts of composition: 50% volcanic/sed, 50% granitoids.
34				
35		06		
36				
37				
38				
39		07		
40				

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE March 4, 1996 HOLE NO RR-96-272 LOCATION Site #62 ELEVATION _____
 GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
 SHIFT HOURS _____ TO _____ MOVE TO HOLE _____
 TOTAL HOURS _____ DRILL _____
 CONTRACT HOURS _____ MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

Pg 3

DEPTH METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
41		07		(41.0-42.2) <u>till?</u> slightly unsorted matrix - coarse biased yet returns in silt to fine sand fraction. mainly white clasts of similar composition to gravel.
42		08		
43		09		(42.2-43.0) <u>sand & gravel</u> : very similar to 31.2-41.0 m. Slightly unsorted matrix in places. observed occasional felsic (sheared) volcanic clast probably derived from east Richardson Area.
44		10		(43.0-44.0) <u>sand</u> : variably sorted & poorly sorted fine grained sand
45		11		(44.0-45.0) <u>sand & gravel</u> : cobbly gravel with clast composition 65% v/s 35% granitoids. Increase in locally derived material (mafic volcanics).
46		12		(45.0-46.0) <u>till?</u> slightly sorted silt deficient matrix. Cobble clasts of composition: 65% mafic volcanics & sediments; 35% granitoids
47		13		(46.0-47.0) <u>sand & gravel</u> : well sorted medium to coarse sand and cobbly clasts of composition: 50% v/s 50% Granitoids
48		14		(47.0-48.0) <u>till</u> : good unsorted matrix gray silt to fine sand. Cobble clasts of similar composition to above.
49		15		(48.2-48.4) <u>boulder</u> : saprolite
50		16		(48.4-48.6) <u>boulder</u> : trondhjemite
51		17		(48.6-48.8) <u>till</u> : good till similar to 55.8-57.8; occasional saprolite cobbles.
52		16		
53		17		
54		17		

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE March 6 1997 HOLE NO RR-96-273 LOCATION Site #40 ELEVATION _____
 GEOLOGIST P.C. DRILLER R.L. BIT NO. _____ BIT FOOTAGE _____
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL _____
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

Pg 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
21				<p align="center">35.0-40.2 <u>Lab Agassiz Sediments</u> varied pale grey to greenish grey non-gritty clay and silt. - rare thin clay till seams in places.</p>						
22										
23										
24										
25										
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 March 6 19 96

HOLE NO QR-96-273 LOCATION Site #40 ELEVATION _____

SHIFT HOURS _____

GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____

TO _____

MOVE TO HOLE _____

TOTAL HOURS _____

DRILL _____

CONTRACT HOURS _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

Pg 3

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
41		01		40.2-52.0 <u>Labradorean Till</u> <u>and glaciofluvial sediments</u>
42		02		(40.2-41.0) <u>Till</u> : initial 0.3 m has up to 40% green-blue clay (gritty) in matrix. Thereafter, matrix is silt to fine sand. Cobble clasts of composition 50% volcanics & beds 50% granitoids.
43				
44				
45		03		(41.0-) <u>Sand & gravel</u> : sorted medium & coarse grained sand with pebbles & cobble gravel beds. clast composition similar to above.
46				Small pebbles and ^{matrix} rounded subrounded.
47				- below 42.5' gravel is now cobble clast supported v. slow drilling.
48		04		(43.0-43.3) boulder - <u>tonalite</u>
49				45.0-51.0 <u>sand & gravel</u> suite to 41.0-42.5 clast composition changes to 60% granitoids
50				51.0-52.0 <u>Till</u> : slightly sorted fine & medium sand matrix with up to 15% saprolitic clay lumps. Cobble clast composition: 60% volcanics & sediments; 40% granitoids.
51		05		
52		06		
53		07		52.0-53.5 <u>Bedrock</u>
54				- abundant rock clay lumps blue green & olive rusty green
55				- chips are medium green & oxidized -> fractured.
56				- well foliated, <u>red up to 0.0 m quartz</u> (phanitic)
57				- weakly sheared
58				- clastic like texture may be due to clay alteration & plug phenos. (porphyritic)
59				- 0.3% v. finely disseminated sulphides
60				basalt? or gneiss.

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE March 6th 1996 HOLE NO RR-96-274 LOCATION Site # 4R ELEVATION _____
 GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
 SHIFT HOURS _____ TO _____ MOVE TO HOLE _____
 TOTAL HOURS _____ DRILL _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS _____
 _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

Fig. 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21		28.0 - 31.1		<p><u>Lake Agassiz Sediments</u></p> <p>varved pale greenish grey, non-gritty smooth clay & silt.</p>
22		31.1 - 34.0		<p><u>Labradoran Till</u></p> <p>grey beige silt to fine sand matrix. Considerable sized clasts of composition: 60% volcanic & sediments; 40% Granitoids. ~15% of volcanics are sheared, some micaceous.</p> <p>(31.8 - 32.1) boulder. intermediate felsic volc. weakly micaceous.</p>
23		34.0 - 36.0		<p><u>Bedrock</u></p> <ul style="list-style-type: none"> - bleached pale green & white - strongly sheared - chlorite - sericite alteration abundant slip planes some weakly hematized. - 5-7% qtz veins - Tr. finely disseminated pyrite - 1% carbonate ferrug? - weakly porphyritic texture plagioclase phenocrysts. <p>Altered mafic volcanic</p>
24				
25				
26				
27				
28				
29				
30				
31				
32			01 ← E.O.H. 6H	
33			02	
34			03	
35			04	
36				
17				
18				
19				
20				

36.0 E.O.H.

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE March 7 19 96
 SHIFT HOURS _____ TO _____
 TOTAL HOURS _____
 CONTRACT HOURS _____

HOLE NO RR-96-275 LOCATION Site # 42 ELEVATION 1123
 GEOLOGIST P. Collins DRILLER R. Legault BIT NO. C9371142 BIT FOOTAGE 89.5-10
 MOVE TO HOLE 10:00-10:15
 DRILL 10:15-11:15
 MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 11:15-3:00

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0.0 - 0.5				<u>organics - Peat</u>
0.5 - 6.8				<u>Lake Agassiz Sediments</u> initially beige-ochre (silty) to grey non-gritty clay & silt (varied)
6.8 - 1				<u>Keewatin Till</u> grey beige, gritty, clay matrix with 5-10% pebbly clasts matrix slightly sandy in places.
1.0 - 15.4				(10.0 - 15.4) very slightly gritty to non gritty clay matrix. Rare pebble clasts as above.
15.4 - 16.2				<u>Lake Agassiz Sediments</u> (15.4 - 16.2) <u>clay/silt</u> : pale greenish grey non-gritty clay & silt.
16.2 - 1				<u>Labradorian Till</u> grey beige silt to fine sand matrix. Cobble & clasts of composition: 70% volcanics (Seds); 30% granitoids. Many of the volcanics are sheared and some are min. eroded.
1.0 - 19.0			D1, D2, D3	<u>Bedrock</u> porphyritic - mottled medium green & white - moderately foliated - weakly sheared, presence of slip planes some of which are hematized. - generally ~5-7% qtz veins apart from 18.0-18.5 which is strictly qtz vein - sandy in places with hematite? (vialled separately) - strongly porphyritic, chloritic groundmass plagioclase phenocrysts (up to 3mm) - 0.2-0.3 finely disseminated sulphides Feldspar Porphyry

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE March 7, 1996 HOLE NO RR-96-276 LOCATION Site #36 ELEVATION 1176
 GEOLOGIST P. Collins DRILLER R. Legendt BIT NO 5271142 BIT FOOTAGE 102.5-1
 SHIFT HOURS _____ MOVE TO HOLE 11:15 - 2:00 7th
 _____ TO _____ DRILL 3:30 - 5:45 (7th) PM 8:00 - 12:00 (8th)
 TOTAL HOURS _____ MECHANICAL DOWN TIME 3:00 - 3:30 water trouble
 CONTRACT HOURS _____ DRILLING PROBLEMS _____
 _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

Pg 1 of 3

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0.0		0.0 - 1.0		organic - peat mass
1.0		1.0 - 7.0		<u>Lake Agassiz Sediments</u> grey, non gritty, clay & silt masses
7.0		7.0 - 32.4		<u>Keewatin Till</u> grey beige gritty clayish matrix Pebble clasts (5-10%) of composition limestone & sandstone. occasional granite clast. minor silt to fine sand matrix in places. 12.5-32.4 very slightly gritty clay rich matrix. rare pebble clasts as above.
20				
19				
18				
17				
16				
15				
14				
13				
12				
11				
10				
9				
8				

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE March 7 19 96 HOLE NO RR-96-27C LOCATION _____ ELEVATION _____
 GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
 SHIFT HOURS _____ TO _____ MOVE TO HOLE _____
 TOTAL HOURS _____ DRILL _____
 MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 MOVE TO NEXT HOLE _____

Pg 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				32.4 - 45.8 Labradorian Till + Glaciofluvial sediments grey being silt to fine sand matrix. Cobble clasts of impure: 55% volcanics & sediments; 45% granitoids (33.5 - 40.4) abundant sample return. Matrix slightly sorted & coarse biased. Clast composition as above. - below 35.5m clast composition is 55% granitoids & 5% volcanics & sed. Till modified by glacio fluvial processes. Evidenced by occasional sorted fine, med & coarse sand; though only for brief intervals. Till matrix is - supported & very sandy. 36.9 - 37.2 boulders - matrix volcanic very hard.
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33			01	
34			02	
35			03	
36			04	
37			05 ← EOH (7m)	
38			06	
39				
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE March 7, 8 1996 HOLE NO RR-96-276 LOCATION _____ ELEVATION _____
 GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL _____
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

Pg 3

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
41		06		40.4 - 41.3 gravel: sorted coarse sand matrix. Sub-rounded pebbles 50% volcanics & sediments; 50% granitoids (some volcanics are steved).
42		07		41.3 - 42.4 sand: beige sorted fine g. sand.
43		08		42.4 - 45.8 sand & gravel: sorted medium and coarse grained sand with pebbles & cobble gravel interbeds. clasts similar to 40.4-41.3
44		09		45.8 - 47.2 <u>Bedrock</u>
45				- medium green
46				- fine grained
47				- moderately well foliated
48				- few slip planes
49				- main matrix pyroxene-clerite.
50				- 5-7% disseminated calcite
51				at 46.4, chips are grey brown with pyrite pyrite & calcite
52				veinlets
53				Bussell.
54				
55				
56				
57				
58				
59				
60				

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE March 8 1996
 SHIFT HOURS _____
 TO _____
 TOTAL HOURS _____
 CONTRACT HOURS _____

HOLE NO RR-96-277 LOCATION Site # 37 ELEVATION 1151
 GEOLOGIST P. Collins DRILLER R. Legault BIT NO CB71136 BIT FOOTAGE 0.0-2
 MOVE TO HOLE 12:00-12:15
 DRILL 12:15-4:30
 MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE 4:30-5:45

New bit.

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG					
0.0				0.0 - 1.0 <u>organics - Peat moss</u>					
1.0				1.0 - 3.4 <u>Lake Agassiz Sediments</u> beige - light to olive to grey below 2m non-gritty clay.					
3.4				3.4 - 5.0 <u>Keweenaw Till</u> grey beige gritty clay rich matrix. 5-10% pebble clasts mainly limestone / sandstone. (5.0 -) very slightly gritty to non gritty clay rich matrix. 4-5% pebble clasts mainly limestone / sandstone					
5.0				(13.3-13.8) glacial fluvial sands: sorted beige fine sand with pebble / granules 90% limestone / metam. sands; 10% granitoid					
13.3				17.0 - 17.8 <u>Lake Agassiz Sediments</u> varied pale greenish grey non-gritty clay & silt.					
17.0				17.8 - 26.9 <u>Labradorian till</u> sandy matrix supported till beige - grey silt to fine sand. slightly sorted in places. Abundant return on sample. Pebble / cobble clasts of composition: 45% volcanic / sed. 55% granitoids.					
26.9			01						
28.0			02						

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE March 9 1996 HOLE NO RL-96-278 LOCATION Site # 38 ELEVATION 1149
 GEOLOGIST P Collins DRILLER R Legault BIT NO CB71136 BIT FOOTAGE 28.5-5
 SHIFT HOURS _____ MOVE TO HOLE 4:30 - 5:45 (8th)
 _____ TO _____ DRILL 8:10 - 10:30 (9th)
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

Page 1

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0.0 - 0.5				Organics - Peat moss.
0.5 - 19.1				<u>Kewatin Till</u> beige - light ochre slightly gritty to 3m; beneath has very slightly gritty to more gritty clay rich matrix. few pebble clast mainly limestone & sandstone.
19.1 - 20.2				<u>Labradorian Till</u> grey beige silt to fine sand matrix. cobble/pebble clasts ~ 60% granitic 40% volcanic sed. <u>very fine</u> (19.2 - 19.4) boulder - monazite (19.4 - 20.2) good unsorted matrix supported till as in (19.1 - 19.2)
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20				

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE March 9 19 96 HOLE NO RR-96-278 LOCATION Site # 38 ELEVATION _____
 GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
 SHIFT HOURS _____ TO _____ MOVE TO HOLE _____
 TOTAL HOURS _____ DRILL _____
 CONTRACT HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

Pg. 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG															
0.0																			
1																			
2																			
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4																			
5																			
6																			
7																			
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17																			
18																			
19																			
20																			

20.2 - 21.2 glacio fluvial sediments
 cobbly gravel beds of composition
 80% granitoids, 20% volcanics/
 sediments with inter beds of
 sorted fine, medium / coarse
 sand beds.

21.2 - 22.5 Bedrock
 - pink / greenish grey
 - porphyritic texture.
 mainly plag + few qtz
 phenocrysts in finer groundmass
 (qtz, feldspathic).
 - sheared
 presence of slip plane
 up to 0.5% disseminated
 pyr. + pyroxite?
 - 5% disseminated calcite
 gb. feldspar porphyry.

22.5 E.O.H.

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE March 9 19 96 HOLE NO RR-96-279 LOCATION site #39 ELEVATION 1145
 GEOLOGIST P. Collins DRILLER R. Gault BIT NO CB71123 BIT FOOTAGE 51.0-58
 SHIFT HOURS _____ MOVE TO HOLE 10:30 - 10:45
 _____ TO _____ DRILL 10:45 - 1:30
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1		0.0 - 1.0		organic: peat moss
2		1.0 - 17.0		Keewatin Till beige to light ochre gritty clay rich matrix - ~5% pebble clasts mainly limestone & sandstone. (17.0 - 19.0) grey, very slightly gritty to ungritty clay matrix. rare pebble clasts as above
3				
4				
5				
6				
7		17.0 - 19.0		Lake Agassiz Sediments pale greenish grey non gritty clay & silt masses. also interbeds of grey to very fine grained sand
8				
9				
10				
11		19.0 - 26.9		Labrador Tuff (19.0 - 19.4) weathered grey silt to fine sand matrix. Cobble clast of composition: 60% granitoids; 40% Volcanics & sediments.
12				
13				
14				
15				
16				
17		19.4 - 21.8		glacio fluvial Sediments sand & gravel: well washed rounded pebble & cobble gravel of clast composition: 80% granitoids; 20% Volcanics & sediments. Interbeds of sorted coarse grained sand.
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE March 9, 1996
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-96-280 LOCATION site #35 ELEVATION 1146
GEOLOGIST P. Collins DRILLER R. Legault BIT NO. 5971136 BIT FOOTAGE 80.0-1
MOVE TO HOLE 1:30-3:15 (9th) partway & 5:15-5:45 (9th)
DRILL 8:10 - 10:15
MECHANICAL DOWN TIME 3:15 - 5:15 mechanic installed part for motor to
DRILLING PROBLEMS increase RPM's
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0.0 - 1.0				organics peat moss
1.0 - 18.4				<u>Lagered Keewatin Till</u> ‡ <u>Lake Agassiz sediments</u> beige-ochre gritty clay rich matrix ~5-6 pebble clasts mainly limestone & sandstone. (3.8 - 7.0) sand: mainly grey beige poorly sorted very fine and fine grained sand with occasional grey clay partings. (7.0 - 7.3) <u>clay till</u> : similar to 1.0 - 3.8 only unoxidized grey (7.3 - 7.8) sand: as at 3.8 - 7.0 (7.8 - 11.5) <u>clay till</u> : very slightly gritty to non gritty grey clay matrix with rare small pebbles as above. (11.5 - 13.0) <u>clay/silt/sand</u> : var vest pale greenish grey clay & silt with interbeds of poorly sorted fine grained sand. 13.0 - 18.4 <u>Labradorean Till</u> grey beige silt to fine sand with 5-10% gritty khaki coloured clay lumps in matrix. Cobble clasts of composition: 60% granitoids; 40% volcanics & sediments (16.0 - 18.4) <u>Till</u> : sandy matrix - no clay lumps. Also clast composition changes to 50% volcanics & reds (few felsic, intermediate & mafic volcanics some of which are sheared, few mineralized) 40% granitoids. 18.4 - 19.6 <u>Bedrock 05</u> or boulder: pale greenish grey & rusty ochre moderate to strongly sheared sericite schist friable chips. Below 18.9 m mainly rusty ochre chips (fracturing), non calcareous, no visible sulphides. altered. int. to felsic vol.
19.6 - 20.7				<u>Bedrock 06</u> altered int. ... at 19.6 m - return on rusty ochre lumps which gradually become greenish & rusty ochre, then return on bluish green to grey green rock chips. This transition rusty stage between 05 & 06, then 05 probably legitimate bedrock. chips are fine grained, sheared chip planes chlorite-sericite alteration 0.3% disseminated carbonaceous pyrite possibly Fe. arsenopyrite; 1-2% qtz

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE March 10 1996
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-96-281 LOCATION Site # 37 ELEVATION 1151
GEOLOGIST P. Collins DRILLER R. Legault BIT NO. C871136 BIT FOOTAGE 100.7-12
MOVE TO HOLE 10:15 - 10:35
DRILL 10:35 - 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
0.0 - 0.7				<u>organic Peat Moss</u>
0.7 - 10.8				<u>Keewatin Till</u> beige olive to grey beige gritty clay rich matrix. ~5% pebble clasts mainly limestone & sandstone (4.0 - 10.8) very slightly gritty to non gritty grey clay rich matrix. Rare pebble clasts similar to above.
10.8 - 12.8				<u>Lake Agassiz Sediments</u> grey poorly sorted (silty) fine grained sand (glaciolacustrine member)
12.8 - 20.3				<u>Labradoran Till + glacio fluvial Sediments</u> (12.8 - 13.7) good unsorted till matrix with cobble/pebbles of composition 60% volcanics/bedrocks (mainly altered volc.) 40% granitoids (13.7 - 14.0) sand & gravel: abrupt change to well sorted ^{coarse} grained sand with pebbly gravel beds of composition 60% granitoids 40% volc/seds (14.0 - 14.7) Till similar to (12.8-13.7) (14.7 - 17.6) sand: well sorted black & beige (abundant mafic grains) fine grained sand. (17.6 - 17.8) gravel: cobble gravel bed (17.8 - 19.0) sand: similar to 14.7-17.6 (19.0 - 20.3) till: clast supported very little unsorted silt to fine sand matrix. By 19.7 till very rubbly with 90% local altered mafic volcanics 10% granitoids + seds.
01				
02				
03				
04				

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE March 10 19 96
SHIFT HOURS _____
TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-96-282 LOCATION Site #34 ELEVATION 1149
GEOLOGIST P. Collins DRILLER R. Logant BIT NO C37136 BIT FOOTAGE 122.7
MOVE TO HOLE 12:00 - 12:15
DRILL 12:15 - 1:45
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0.0 - 0.7				Organics - Peat moss
0.7 - 13.7				<u>Keewatin Till</u> keige foliagt och gritty clay rich matrix. Few pebble clasts mainly limestone & siltstone (3.5 - 13.7) very slightly gritty to non-gritty grey clay rich matrix. Have pebble clasts as above.
13.7 - 17.4				<u>Labradorian Till + glaciofluvial sediments</u> (13.7 - 14.8) gravel: well washed pebble & cobble clasts of composition: 70% granitoids; 30% volcanics (sds - rods chugging down. (14.8 - 17.4) abrupt change to unsorted silt to fine sand matrix cobble clasts of composition: 58% volcanics & metabeds (many volcanics are steved & mineralized up to 3% pyrite in some chips) abundant sulphides in till matrix.
17.4 - 18.8				<u>Bedrock</u> - dark green - fine grained - moderately well foliated weakly steved? - equigranular interlocking text. - main matrix is chlorite - 0.3% disseminated pyrite - up to 12% disseminated calcite - 2-3% qtz ± carb. stringers below 18.0m
18.8 - 20.0				<u>Basalt</u> 18.8 E.01 H.

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE March 10 19 96 HOLE NO RR-96-283 LOCATION Site # 29 ELEVATION 1146
 GEOLOGIST P. Collins DRILLER R. Legault BIT NO. C571136 BIT FOOTAGE 141.5
 SHIFT HOURS _____ MOVE TO HOLE 1:45 - 3:00
 _____ TO _____ DRILL 3:00 - 5:15
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE 5:15 - 5:45

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0.0				0.0-0.5 <u>Organics part</u>
1				0.5 - 2.0 <u>layered Kaewan Till of Lake Agassiz Sands</u>
2				(0.5-2.0) beige to light olive gritty clay rich matrix - 5% pebble clasts mainly limestone & siltstone.
3				(2.0-2.0) clay: grey smooth nongritty.
4				(4.0-7.0) clay till: similar to 0.1-2.0
5				(7.0-13.0) clay till: grey, very slightly gritty to nongritty clay matrix. Rare pebble clasts mainly limestone.
6				(13.0-13.4) glacio-fluvial sediment: pebbly gravel bed; 90% of clasts are limestone & siltstone; 10% granitoids.
7				(13.4-19.5) clay till: similar to 7.0 to 13.0
8				(19.5-20.6) clay/silt: pale grey green non gritty clay & silt varves.
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**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE March 10, 19 96

HOLE NO RR-96-283 LOCATION Site # 30 ELEVATION _____

GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____

SHIFT HOURS _____ TO _____

MOVE TO HOLE _____ DRILL _____

TOTAL HOURS _____

MECHANICAL DOWN TIME _____

CONTRACT HOURS _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

Pg 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG						
21				(20.6 - 21.0) clay till: similar to 7.0-13.0						
22				(21.0 - 23.0) sand: glaciolacustrine poorly sorted (silty) grey fine grained sand.						
23			01	23.0 - 26.5 <u>Labradorian Till</u>						
24			02	Colatile clast supported till. Little silt to fine sand matrix. Abundant -10 mesh cuttings, abundant v fine sulphide grains in matrix. Clast composition 50% sheared volcanics many of which are mineralized. 50% Granitoids/Schists.						
25			03							
26			04							
27			05							
28										
29				26.5 - 27.7 <u>Bedrock</u>						
30				- buff grey green						
31				- weakly porphyritic texture						
32				2-3% blue qtz eyes						
33				- aphanitic groundmass						
34				- sheared; sericitic slip planes						
35				- 0.5-0.7% disseminated pyrr.						
36				- mm calcareous						
37				Intermediate Volcanic.						
38										
39										
40										

27.7 E.O.H.

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE March 11 1996 HOLE NO RR-96-284 LOCATION Site # 30 ELEVATION 1146
 GEOLOGIST P. Collins DRILLER R. Legendt BIT NO C371146 BIT FOOTAGE 0.0 - 34
 SHIFT HOURS _____ MOVE TO HOLE 5:15 - 5:45 (10th)
 _____ TO _____ DRILL 8:00 - 10:00
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER Travel 7:25 - 8:00 (11th)
 _____ MOVE TO NEXT HOLE _____

New bit + sub
Pg 1

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0.0				0.0 - 1.0 <u>organics</u> Peat moss
1				1.0 - 18.0 <u>Keewatin Till</u>
2				(1.0 - 5.0) beige to light olive gritty clay rich matrix minor sandy between 2 & 3 metres. 5 + 10% pebble clasts mainly limestone.
3				(5.0 - 18.0) gray very slightly gritty to non gritty clay matrix. few pebble clasts as above.
4				18.0 - 32.5 <u>Lake Agassiz Sediments</u>
5				(18.0 - 19.6) <u>clay?</u> pale greenish grey non gritty clay though did observe 3 limestone clasts.
6				(19.6 - 21.8) <u>sand</u> glaciolacustrine member. Poorly sorted (silty) fine grained sand.
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**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE March 11 1996 HOLE NO RR-96-284 LOCATION Site #30 ELEVATION _____
 GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
 SHIFT HOURS _____ TO _____ MOVE TO HOLE _____
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ OTHER _____
 MOVE TO NEXT HOLE _____

Pg 2.

DEPTH METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				<p>[21.8 - 27.6] <u>glaciofluvial sediments:</u> (21.8-27.6) mainly well sorted medium and coarse grained sand with occasional pebbly gravel beds - clasts dominantly granitoids.</p> <p>(27.6 - 28.2) <u>gravel</u>: pebbly gravel generally well washed 60% Granitoids 40% volcanics } beds.</p> <p>(28.2 - 30.0) <u>sand</u>: well sorted fine to medium grained sand.</p> <p>(30.0 - 32.5) <u>gravel</u>: mainly granule } pebble clasts (subrounded to rounded) 70% of which are granitoids. Sorted medium } coarse sand matrix.</p> <p>32.5 - 34.0 <u>Bedrock</u></p> <ul style="list-style-type: none"> - pale to med green and rusty ochre along fracture planes - porphyritic texture: plagioclase blue qtz phenos in finer g. mass. - strong foliation to schistose - moderately cleaved - chlorite Sericite alteration - non calcareous - fracture zone at 33.5-33.7 with ochre-rusty, hematized and blue green rock chips as well as ~ 3% qtz veinlets - no visible sulphides <p align="center">intermediate volc.</p> <p align="center">34.0 E.O.H.</p>
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OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE March 11 1996 HOLE NO RR-96-285 LOCATION _____ ELEVATION _____
 GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL _____
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

Pg 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				(23.0 - 26.0) glaciolacustrine member (GLM) poorly sorted grey fine grained sand.
22				(26.0 - 26.4) till: <u>Labradorian Till + Lake Agassiz Seds</u>
23				good unsorted silt to fine sand matrix. Pebble & cobble clasts of approx. composition: 50% granitoids 50% volc/sed. This interval may be gravel with care is but unlikely.
24				(26.4 - 27.5) GLM sand as at 23.0-26.0
25				(27.5 - 27.6) till? very thin horizon.
26				(27.6 - 28.0) GLM sand as at 23.0-26.0
27				(28.0 - 28.1) till? very thin horizon.
28				(28.1 - 29.0) GLM sand as at 23.0-26.0
29				(29.0 - 31.9) GLM + GLF (glaciolacustrine) matrix alternates between grey poorly sorted fine sand and well sorted fine, medium & coarse sand beds.
30				below 30.0 m there is the occasional pebbly gravel bed ~ 80% granitoid clasts.
31				as approach end of interval volcanic component increases to 60% with pebble & cobble clasts.
32				(31.9 - 32.2) boulder - basalt
33				(32.2 - 32.7) Till? sandy yet slightly unsorted matrix. Cobble clasts 65% Volc/sed; 35% granitoids.
34				(32.7 - 33.8) boulder - basalt
35				(33.8 - 35.6) till: slightly sorted & coarse braced matrix. Cobble clasts as in 32.2 - 32.7.
36				(35.6 - 35.9) boulder - granite
37				(35.9 - 36.8) till: similar to above
38				36.8 - 37.5 Bed? - qtz, feld. porphyry, or intermediate volc.
39				- pinkish green (hematite stain)
40				- mod. well foliated; weakly cleaved.
				- chloritic slip planes, tr. sulphydes
				- porphyritic texture; blue qtz & plagioclase in qtz-feldspar + chlorite g.m. as.
				1-2% disseminated calcite; 10% qtz veinlets.
				37.5 E.O.H.

pull rods too much torque.

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE March 11 1996 HOLE NO RR-96-286 LOCATION Site #32 ELEVATION 1149
 GEOLOGIST R. Collins DRILLER R. Legault BIT NO. CB71146 BIT FOOTAGE 71.5-103
 SHIFT HOURS _____ MOVE TO HOLE 1:30-1:45
 _____ TO _____ DRILL 1:45-3:30
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS _____
 _____ OTHER _____
 _____ MOVE TO NEXT HOLE 3:30-6:50

Pg 1

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0.0 - 1.0				organics peat moss
1.0 - 22.0				Keewatin Till beige-light olive to gray beige gritty clay matrix unsorted f. sand in places between 5 + 8 metres. 5% pebble clasts mainly limestone (8.5 - 22.0) gray very slightly gritty to non gritty clay matrix Rare pebble clasts as above.
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OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE March 11 19 96 HOLE NO RL-96-286 LOCATION Site #32 ELEVATION _____
 GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
 SHIFT HOURS _____ TO _____ MOVE TO HOLE _____
 TOTAL HOURS _____ DRILL _____
 CONTRACT HOURS _____ MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

Pg 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				22.0 - 23.8 <u>Lake agassiz Sediments</u>
22				(22.0 - 23.0) <u>clay/silt</u> : pale greenish grey clay { silt.
23				(23.0 - 23.8) <u>sand</u> : mainly grey poorly sorted glaciolacustrine fine grained sand. Though there are a couple of limestone clasts (possibly dropstone)
24				23.8 - 30.5 <u>Labradorean Till + glaciolacustrine sediments (G&M)</u>
25		01		(23.8 - 24.1) <u>boulder</u> - granite
26				(24.1 - 25.0) <u>till</u> : unsorted grey beige silt to fine sand matrix. Cobble clasts ~ 60% Granitoids; 40% Volc/seds.
27		02		(25.0 - 25.3) <u>gravel</u> : rounded pebbly gravel (well washed - no sand) clast composition: 50 volc/seds/50 granitoids
28				(25.3 - 30.0) <u>Sand & gravel</u> : sorted medium { coarse sand matrix cobbly gravel 55% Volcanic/seds 45% granitoids.
29		03		(30.0 - 30.5) <u>till</u> : slightly sorted silt to fine sand matrix. Non clast supported till of clast composition 55% Volc/seds; 45% Granitoids
30		04		30.5 - 31.5 <u>Bedrock</u>
31		05		- pale to med. green
32				- well foliated; few slip planes
33				- weakly porphyritic texture
34				- main mafic is chlorite
35				- 1% disseminated calcite
36				- no visible sulphides
37				intermediate volcanic.
38				31.5 E.O.H

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE March 15th 1996
 SHIFT HOURS _____
 TO _____
 TOTAL HOURS _____
 CONTRACT HOURS _____

HOLE NO RR-96-298 LOCATION Site # 99 ELEVATION 1135'
 GEOLOGIST P. Collins DRILLER R. Logan BIT NO. C871120 BIT FOOTAGE 46.5-73
 MOVE TO HOLE 12:15 - 4:15 Flatt move + 5 km move for drill
 DRILL 4:15 - 5:30 (15%) 8:30 - 10:30 (16%)
 MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

Pg 1

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1	^^			0.0 - 4.0 Organics - Peat Moss
2	^^			4.0 - 7.0 <u>Keewatin Till?</u> initially blue grey gritty to grey beige clay matrix.
3	^^			
4	^^			
5	^^			7.0 - 15.7 <u>Lake Agassiz Sediments</u> gradational contact to grey smooth nongritty clay
6	^^			
7	^^			
8	^^			15.7 - 20.5 <u>Keewatin Till</u> grey beige gritty clay rich matrix (good grit) 5-7% pebble clasts mainly limestone + granitoids.
9	^^			
10	^^			
11	^^			
12	^^			
13	^^			
14	^^			
15	^^			
16	^^			
17	^^			
18	^^			
19	^^			
20	^^			

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE March 13/16 19 96 HOLE NO RR-96-298 LOCATION Site # ELEVATION _____
 GEOLOGIST P.C. DRILLER R.L. BIT NO. _____ BIT FOOTAGE _____
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL _____
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

Pg 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21	|||			20.5-21.8 <u>Lake Agassiz Sediments</u> pale greenish grey non gritty clay
22	△△	01		
23	△△	02		21.8-24.8 <u>Labradorian Till</u> grey beige silt to fine sand matrix cobble clasts of composition 65% volcanic & sediment (some of which are altered) / 35% granitoid (there are a few limestone clasts in the upper part of interval). below 24.0 - many of volcanic clasts are veined
24	△△	03		
25	△△	04	E.O.H. (15m)	
26				24.8-26.5 <u>Bedrock</u> - medium to dark green - fine grained - clay altered in places (green clay lumps) - moderately well foliated - main matrix is chlorite, hornblende? - augite granular interlocking texture - non calcareous - no visible sulphides <u>Basalt</u> 26.5 E.O.H.
27				
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39				
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**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE March 16 19 96
 SHIFT HOURS _____
 TO _____
 TOTAL HOURS _____
 CONTRACT HOURS _____

HOLE NO RL-96-299 LOCATION Site # 100 ELEVATION 1130
 GEOLOGIST P. Colvin DRILLER R. Legendt BIT NO. CB71147 BIT FOOTAGE 0.0 - 2
 MOVE TO HOLE 10:30 - 10:45
 DRILL 10:45 - 1:00
 MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

New bit

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0.0		0.0 - 4.0		Organics Peat moss
1		4.0 - 7.6		Lake Agassiz Sediments initially blue grey silty to grey non gritty (below 5.0m), 5 month clay.
2		7.6 - 15.8		Keewatin Till grey beige gritty clay matrix 5-7% small pebble clasts mainly limestone; few granitoids (12.0 - 15.8) grey very slightly gritty clay. Rare pebbles as above at 14.6 - 14.8 beige gritty clay till with numerous pebble clasts - limestone.
3		15.8 - 16.4		Lake Agassiz Sed's pale greenish grey non gritty clay & silt varves.
4		16.4 - 23.2		Labradorean Till grey beige silt to fine sand + up to 65% khaki gritty clay matrix small cobble clasts of composition 60% volcanics & sediments; 40% granitoids.
5		20.0 - 23.2		till: sandy matrix supported - coarse biased in places increase also in cobble clasts of similar composition to above. Some volcanics appear to have fairly shung fabric - used to mod. shear.
6				
7				
8				
9				
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12				
13				
14				
15				
16				
17				
18				
19				
20				

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE March 16 1996
 SHIFT HOURS _____
 TO _____
 TOTAL HOURS _____
 CONTRACT HOURS _____

HOLE NO RR-96-300 LOCATION Site # 101 ELEVATION 1130
 GEOLOGIST P. Collins DRILLER R. Loggins BIT NO 6071147 BIT FOOTAGE 24.8
 MOVE TO HOLE 1:00-1:15
 DRILL 1:15-2:15
 MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0.0 - 4.0				organics - peat moss
1.0 - 7.0				Lake Agassiz Sediments clay: grey non gritty smooth clay with silt varves.
7.0 - 15.3				Kaawatin Till grey beige gritty clay matrix. SC small pebble clasts mainly limestone (9.5-11.0) clay till: very slightly gritty grey clay matrix. Rare pebble clasts as above. (11.0-14.8) glaciofluvial sediments Sand - well sorted being (from limestone component) medium grained sand occasional thin pebbly bed. (14.8-15.3) clay till: similar to 9.5-11.0
15.3 - 15.8				Lake Agassiz Sediments pale greenish grey non gritty clay & silt varves.
15.8 - 17.4				Labradorian Till grey beige silt to fine sand matrix supported till. (sulphides in matrix). Cobble clasts mainly 60% volcanic & reds (some of which are mineralized)
17.0 - 17.4			01	gravel: absolutely no matrix, mainly pebble & granule clasts some well rounded. Clast composition 50 Volc / reds; 50 quartzites
17.4 - 19.5			02	Bedrock - mafic volcanic - med green - fine & med grained - inequigranular interlocking texture - well foliated, weakly sheared - schistose in places - chlorite - sericite - s to dismantled calcite, no visible calcite
19.5 - 20.0				

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE March 16th 1996
 SHIFT HOURS _____ TO _____
 TOTAL HOURS _____
 CONTRACT HOURS _____

HOLE NO RR-96-301 LOCATION Site #98 ELEVATION 1135'
 GEOLOGIST P. Collins DRILLER R. Leggett BIT NO. CB21147 BIT FOOTAGE 44.2-9
 MOVE TO HOLE 2:15 - 2:45
 DRILL 2:45 - 5:30 (16M) 1:00 - 2:30 (17M)
 MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 OTHER Standing 8:00 - 1:00 plug holes making water near
 MOVE TO NEXT HOLE Black Hawk, Gary Teeple's property

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0.0				0.0 - 4.0 organics Peat moss
1				
2				4.0 - 15.8 <u>Lake Agassiz Sediments</u> clay: grey, smooth non gritty clay, rare silt varves.
3				
4				15.8 - 35.5 <u>Keewatin Till</u> grey beige, gritty clay matrix few pebbles clasts mainly limestone
5				
6				
7				
8				
9				
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11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE March 16, 1996 HOLE NO RR-96-301 LOCATION Site # ELEVATION _____
 GEOLOGIST _____ DRILLER _____ BIT NO. C.B71147 BIT FOOTAGE _____
 SHIFT HOURS _____ TO _____ MOVE TO HOLE _____
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 CONTRACT HOURS _____ DRILLING PROBLEMS _____
 OTHER _____
 MOVE TO NEXT HOLE _____

Pg 2.

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				(20.5 - 31.0) <u>clay till</u> as above with ~15% limestone clasts. good grit to matrix occasional granitoid pebbles
22				
23				(31.0 - 35.5) <u>clay till</u> : very slightly gritty to non-gritty clay matrix Very few pebble clasts as above
24				
25				35.5 - 38.0 <u>Lake Agassiz Sediments</u>
26				pale greenish gray, smooth non gritty clay & silt
27				
28				38.0 - 43.8 <u>Labradorian Till</u>
29				gray beige silt to fine sand matrix. Cobble sized clasts of composition: 65% volcanic & sediments; 35% granitoids.
30				
31				
32				
33				
34				
35				
36				
37				
38			01	
39			02	
40				

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE March 16, 19⁷⁷ 96

HOLE NO RL-96-301 LOCATION _____ ELEVATION _____

GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____

SHIFT HOURS
_____ TO _____

MOVE TO HOLE _____

TOTAL HOURS

DRILL _____

CONTRACT HOURS

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE _____

Pg 3

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
41		02		<p>40.8 - 43.3 <u>glacio fluvial sediments</u> sand & gravel; mainly sorted medium coarse sand with granules & pebbles in the beds clast composition: 50% vol. / sed.; 50% granitoids. There are a few sheared volcanic clasts some of which are mineralized.</p>
42		03		
43		04		
44		05		
45		06		
46					43.3 - 43.8 Fill: appears to be fill - unsorted silt to fine sand matrix. Cobble clasts of composition: 70% volcanics / sed.; 30% Granitoids.
47			43.8 - 45.0 <u>Bedrock</u>	
48			<ul style="list-style-type: none"> - pale to medium green - medium grained - strongly foliated - lineated perhaps weakly sheared - weakly sericitized slip planes? - fractured, mainly at chips are rusty & stained - inequigranular interlocking texture - appears near clastic - no cleavages, no visible sulphide. 	
49			Basalt	
50			45.0 E.O.H.	
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE March 17 1996 HOLE NO RK-96-302 LOCATION Site #96 ELEVATION 1135
 GEOLOGIST P. Collins DRILLER R. Legault BIT NO. CR2148 BIT FOOTAGE 98.3-105
 SHIFT HOURS _____ MOVE TO HOLE 2:30 - 3:15
 _____ TO _____ DRILL 3:15 - 4:45
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE 4:45 - 5:15

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				0.0 - 4.0 organics - Peat moss.
1				4.0 - 9.8 <u>Lake Agassiz Sediments</u>
2				gray non gritty clay with silt varves.
3				
4				9.8 - 15.8 <u>Kaanatin Till</u>
5				gray beige gritty clay rich matrix - 5% pebbles clasts mainly limestone.
6				
7				(13.0 - 15.8) gray, very slightly gritty to non gritty clay matrix very few small pebbles no above
8				
9				<u>No Labradorian Till</u>
10				
11				15.8 - 17.3 <u>Bedrock</u>
12				- pale to medium green
13				- fine grained
14				- foliated
15				- inequigranular interlocking text.
16				- very hard siliceous
17				- 0.5-6 finely disseminated py.
18				- non calcareous
19				Int to felsic Volc.
20				17.3 E.O.H.

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE March 18 19 96 HOLE NO RR-96-303 LOCATION Site # 97 ELEVATION 1130
 GEOLOGIST P. Collins DRILLER R. Legault BIT NO. C1871147 BIT FOOTAGE 1056-1396
 SHIFT HOURS _____ MOVE TO HOLE 4:45-5:15 (17th)
 _____ TO _____ DRILL 8:30 - 11:05 (18th)
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE Move to road for float 11:05 - 11:30 (9 km)
 _____ Float at 1:30

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1				0.0 - 4.0. <u>Organics</u> : Peat moss
2				4.0 - 12.7 <u>Lake Agassiz Sediments</u> grey, non gritty, smooth clay
3				12.7 - 28.2 <u>Keewatin Till + Lake Agassiz glaciolacustrine fluvial sediments</u>
4				grey beige, gritty clay with matrix. 5-6 pebble clasts mainly limestone.
5				(14.0 - 20.0) <u>clay till</u> as above
6				perhaps with fewer clasts;
7				interbedded with poorly sorted
8				v fine to fine grey beige sand (no chb)
9				(does not appear to be part of
10				till matrix as clay v. slightly gritty
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE March 18, 1996
 SHIFT HOURS _____ TO _____
 TOTAL HOURS _____
 CONTRACT HOURS _____

HOLE NO RR-96-307 LOCATION Site #97 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				20.0 - 23.5 <u>clay till</u> : very slightly gritty to non-gritty clay matrix. Few pebble clasts
22				mainly limestone. at 23.0m granitoid cobble.
23				23.5 - 24.2 <u>pebbly sand</u> : mainly beige slightly unsorted fine grained sand with occasional limestone pebbly bed.
24				24.2 - 25.3 <u>clay till</u> : similar to 20.0 - 23.5m
25				25.3 - 28.2 <u>sand & gravel</u> : interbeds of beige slightly unsorted fine grained sand and pebbly gravel interbeds
26				Clast composition: 65% limestone + unmetamorphosed sediments; 25% pink granitoids; 10% meta sed's to volc.
27				28.2 - 32.2 <u>Lake Agassiz Seds</u>
28				pale greenish grey, soft, non-gritty clay & silt. Observed a couple of limestone clasts in interval (drops true?)
29				Few pebble clasts before bedrock mainly limestone
30				32.2 - 34.0 <u>Bed rock</u> unable to work down any sample
31				→ basalt
32				- pale to med green
33				- very fine to fine grained
34				- clay altered; silty
35				- xstine in places
36				- 1 well foliated
37				- fractured
38				- 2-3 to qtz + calcite veinlets below 32.7
39				- 1 to disseminated calcite
40				- unimolitic chert
				34.0 E.O.H.

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE 18-19/03 1996 HOLE NO RR-46-304 LOCATION Site 114/cont 23 ELEVATION 1130
 GEOLOGIST Ansell DRILLER Lepault BIT NO. 71147 BIT FOOTAGE 1596-156
 SHIFT HOURS _____
 TO _____
 MOVE TO HOLE 1:30-3:30: Float move 3:50-5:30: drill sticky
 DRILL 10+00 - 11:45
 TOTAL HOURS _____
 MECHANICAL DOWN TIME _____
 DRILLING PROBLEMS _____
 OTHER float D5 8:00-9:00; pull drill out: 9:00-9:30
 MOVE TO NEXT HOLE 11:45-1:15

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1	AA	0-1.4		<u>Organics: peat</u>
1	AA	1.4-5.8		<u>Lake Agassiz Sediments</u> medium grey, massive clay no grit, silt or pebbles
2	AA			
2	1A	1.6-5.8		<u>Kewatin Till</u> unsorted, oxidized beige grading downhole to slate grey by 4.6, very gitty, silt matrix, with minor clay, coarse lithic sand and up to 5% pebbles consisting of limestone and rounded granitoids (Marchand?)
3	01			
3	10			
4	01			
4	1A			
5	01			
5	1A			
6	01			
6	1A			
7	01			
7	1A			
8	01			
8	1A			
9	01			
9	1A			
10	01			
10	1A			
11	01			
11	1A			
12	01			
12	1A			
13	01			
13	1A			
14	01			
14	1A			
15	01			
15	1A			
16	01			
16	1A			
17	01			
17	1A			
18	01			
18	1A			
19	01			
19	1A			
20	01			
20	1A			

RR-46
304:

11.1-13.1: Kewatin Till as above, no Agassiz component.
 13.1-13.3: basalt boulder
 13.3-13.9: Kewatin Till, as above
 13.9-15.4: Labradorian Till
 unsorted, grey fine-medium sand matrix,
 near clast supported, cobblely; 25/75 volcanic
 granitoids, locally 40/60 with occasional
 trace of sediment; gneissified granite component
 increasing down hole
 15.4-16.9: Bedrock: Quartz monzonite
 -interlocking, granular, medium grained
 70% Quartz 10% feldspar 60% (25% Ksp: 40% Naep)
 30% Biotite: 25% epidote 5%
 no sulphides, no calcite
 16.9 EOH

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 19/03 1996
SHIFT HOURS _____
TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-96-305 LOCATION Site 112/Tarant 23 ELEVATION 1130
GEOLOGIST Arnell DRILLER Fegault BIT NO. 71143 BIT FOOTAGE 0-20.0
MOVE TO HOLE 11:15-1:15
DRILL 1:15-1:45
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE 4:45-5:15

New bit, new day

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0-0.6				0-0.6 <u>Organics: peat</u>
0.6-3.9				0.6-3.9 <u>Keewatin Till</u>
0.6-2.1				0.6-2.1 <u>oxidized beige, unsorted silty matrix with abundant gut lithic sand, volcanic, granitic, limestone pebbles to 5%.</u>
2.1-3.9				2.1-3.9 <u>sandy till, unsorted beige fine sand, silt matrix (70% carbonate) - assorted pebbles: 50/25/25: limestone/volcanic/granitoid.</u>
3.9-4.5				3.9-4.5 <u>drill plugged: major clayey return</u>
4.5-6.3				4.5-6.3 <u>Interbedded tabular organics + Keewatin Till</u>
4.5-6.3				<u>uniform grey clay layers alternating with unsorted clayey Keewatin Till with sparse pebbles, some gut.</u>
6.3-18.6				6.3-18.6 <u>Labradorian Till</u>
6.3-8.6				6.3-8.6: <u>unsorted grey beige silt & fine sand matrix 25/75: volcanics/granitoid, trace sediments</u>
8.6-10.3				8.6-10.3: <u>matrix finer than above, some clay between 8.6 & 9.2, below 8.9 matrix unsorted grey silt - fine sand, cobbles; clasts 40/60: volcanics & granitoids</u>
10.3-15.9				10.3-15.9 <u>unsorted beige & grey beige fine to medium sand matrix, trace of sulphides; cobbly near clast supported; matrix finer down hole (10.3-10.7: may be moderately sorted sand & gravel) clast composition 10/90: volcanics/granitoid granitoids very weathered to 15.9; trace sulphides</u>
15.9-18.6				15.9-18.6 <u>unsorted grey silt & fine sand matrix granitoid unweathered; clasts 30/70 & locally 10/90 volcanic & granitoid (some quartziferous granite fragments) by 17.4 clasts increasingly mafic to 90% by 18.0</u>
18.6-20.0				18.6-20.0 <u>Bedrock: dark green to black basalt weathered foliated with volcanic texture; pyrophenol & at least black amphibole in chloritized felsic groundmass - quartz eyes to 0.13 mm, rare plagioclase crystals - iron stained fractures, trace sulphides - 19.1 m: several thin veins of epidote + native Cu</u>

20.0 EOH

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 20/03 1996 HOLE NO RR-96-306 LOCATION Site 113/Ingr 23 ELEVATION 1130
 GEOLOGIST Ansell DRILLER Legault BIT NO. 71141 BIT FOOTAGE 0-8.5
 SHIFT HOURS _____ MOVE TO HOLE on site
 _____ TO _____ DRILL 8:30-10:00
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER travel time 7:30-8:30
 _____ MOVE TO NEXT HOLE _____

New bit

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0-0.4				<u>Organics top soil</u>
0.4-1.9				<u>Keewatin Till</u> unsorted, clay + silt matrix, no pebbles, < 1% granules of limestone and granite; oxidized beige matrix to 1.4 slate gray to 1.9
1.9-5.6				<u>Labradorian Till</u> 1.9-4.3 unsorted grey beige silt to fine sand matrix; clast composition 30/70: volcanics/granitoids, no sediments some weathered granite clasts at 1.9 m increasing to 90% of granite weathered by 4.1 also weathered and gneissified granite fragments present throughout section; cobbly matrix supported, some bleached volcanics
4.3-4.6				epidotized granite boulder
4.6-5.6				good matrix as above decreasing down hole to no natural matrix by 5.6; basalt and granite cobbles
5.6-8.5				<u>Bedrock</u> 5.6-6.3 gneissified granite, weathered in place no natural matrix, some contamination, material very weathered; drilled very quickly - absolutely ^{water} 6.3
6.3-8.5				gneissified white quartz diorite or Quartz monzonite interlocking granular texture, no foliation - 30/20: felsic/mafic (amphibole) - ~5% quartz, some iron stained feldspar phenocrysts, minor epidote
				Note: snowy knoll 100 m east, probably outcrop 8.5 m E/O+1 Hole making water-plugged with block

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 20/03 1996

SHIFT HOURS
_____ TO _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO RR-96-307 LOCATION Site 120/Temp 22 ELEVATION 1145

GEOLOGIST Anall DRILLER Segault BIT NO. 71141 BIT FOOTAGE 8.5-10

MOVE TO HOLE 10:00 - 11:00

DRILL 11:00 - 12:00

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER pit sample : RR-96-307-01 as 2 bags

MOVE TO NEXT HOLE 12:30 - 12:45

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0		0.1	1/5	
1		0.2		0-0.2 Soil + <u>Leuwatin</u> Till took pit sample: 2 bags consists of silt, sand, gravel some humus.
2				
3				0.2-1.5 <u>Bedrock</u>
4				0.2-0.6 no return
5				0.6-1.5 Buff coloured felsic volcanic tuff or rhyolite very fine grained felsic grains in felsic matrix some layering evident esp at 10% pyrite as patches & disseminated grains.
6				
7				
8				
9				EDH: 1.5
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE 20/03 19 96 HOLE NO ^{RR-96} 307A LOCATION ~200m west of 307 ELEVATION 1155
 GEOLOGIST Ansell DRILLER Ligault BIT NO 71141 BIT FOOTAGE 10.0-17.0
 SHIFT HOURS _____ MOVE TO HOLE 12:30 - 12:45
 _____ TO _____ DRILL 12:45 - 1:45
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE 1:45 - 2:15

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	1.0			
1	1.0			
2	1.0			
3	1.0	RR-96 307A		0-4.4 <u>Keewatin Till</u> compact, unsorted beige silt and fine sand matrix with minor clay, lithic sand, granules and 3% mixed pebbles: limestone, granitoids, volcanic
4	1.0			
5	1.0	N/S		4.4-7.2 <u>Labradoria Till</u> unsorted grey silt and fine sand matrix, cobbly, matrix supported; clasts 30/70 grading downhole to 90/10 volcanic & granitoids
6	1.0	01		
7	1.0	02		6.2-7.2 <u>Bedrock</u> grey tonalite interlocking granular texture 70% : felsics : 10% quartz 60% feldspar 30% : mafics : 10% epidote 20% amphibole no foliation
8				7.2 EOH
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 20/03 1996

SHIFT HOURS

TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO RR-96-308 LOCATION Site 121/Target 22 ELEVATION 1145

GEOLOGIST Arnell DRILLER Seyoum BIT NO. 71141 BIT FOOTAGE 172-26

MOVE TO HOLE 145-2:30

DRILL 2:30 - 3:30

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE 3:30 - 3:45

DEPTH METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	AA			0-0.3 <u>Organics</u>
1	AA			0.3-6.7 <u>Kewatin Till</u>
2	AA			0.3-4.0 unsorted clayey silt matrix oxidized beige grading downhole to grey by 2.8, gritty, 2% pebbles, locally to 5% predominantly limestone with minor granitic volcanic
3	AA			4.0-6.7 <u>Interbedded Kewatin Till and Lake Agassiz Sediments</u>
4	AA			
5	AA			
6	AA			RR-96 308 4.0-5.0 + 5.9-6.3: uniform grey clay, no sand or pebbles, minor silt
7	AA		01	5.0-5.9- 6.3-6.7: grey Kewatin till as above with trace of granitic and volcanic granules
8	AA		1/5	
9	AA		02	
10	AA			6.7-7.4 <u>Labradorian Till</u>
11	AA			unsorted grey silt-lime sand matrix, clast composition 50/50 to 90/10: volcanics/granitoids
12	AA			7.4-8.8 <u>Bedrock</u>
13	AA			7.4-7.6 no natural matrix, only rock flour, with pink feldspar and grey-green tonalite chips.
14	AA			7.6-8.4 grey green tonalite grading to a leucocratic tonalite by 8.4.
15	AA			8.4-8.8 white to grey tonalite interlocking granular texture 10% quartz, 60% feldspar, 25% mafics - mica, amphibole 5% epidote.
16	AA			
17	AA			
18	AA			
19	AA			
20	AA			8.8 EOH

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE 21/03 19 96

SHIFT HOURS _____
TO _____

TOTAL HOURS _____

CONTRACT HOURS _____

HOLE NO RR-96-312 LOCATION Site 109/Target 24 ELEVATION 1145
GEOLOGIST Ansell DRILLER Lepault BIT NO. 71149 BIT FOOTAGE 270-36

MOVE TO HOLE 1:15 - 1:30

DRILL _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

MOVE TO NEXT HOLE 1:30 - 1:45

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0				0-3.9 NO return
1	NO			3.9-4.4 <u>glacio-luvial sediment</u>
2	return			oxidized beige silica sand and limestone granitoid pebbles.
3				4.4-7.7: <u>Kewatin Till</u>
4	0.8 0.8 0.8 0.8			unsorted grey clayey matrix with abundant grit and
5	0.1 1.0 1.0			1-2% pebbles
6	A / Δ			7.7-9.3 <u>Bedrock</u>
7	Δ 1			quartzunquarified tonalite
8	10		RR-96 312	9.3 EOH
9			01	
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 21/03/1996
SHIFT HOURS _____
TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-9632A LOCATION 150m SSE of 311 ELEVATION 1193
GEOLOGIST Arnold DRILLER Lugault BIT NO. 71149 BIT FOOTAGE 36.2-52
MOVE TO HOLE 1:30 - 1:45
DRILL 1:45 - 3:00
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE 3:00 - 5:00

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0-0.8	no return			0-0.8 no return
0.8-4.4				0.8-4.4 <u>Lake Agassiz / glaciofluvial sediments</u> poorly to moderately sorted oxidized beige silica sand, ochre silt with interbedded pebbly seams, probable road fill
4.4-6.1				4.4-6.1 <u>Organics</u> wood fragments, probably buried by road building
6.1-10.9				6.1-10.9 <u>Lake Agassiz silt</u> unsorted grey clayey matrix with silt abundant grit, 1-2% pebbles, mostly limestone and sandstone
10.9-12.8				10.9-12.8 <u>Lake Agassiz Sediments</u> uniform grey clay, little silt, no pebbles or grit
12.8-15.0				12.8-15.0 <u>Labradorian Till</u> 12.8-13.3 unweathered granite boulder
13.3-14.6				13.3-14.6 unsorted grey silt & fine sand matrix, cobblely; some pyritized basalt;
14.6-15.0				50/50 volcanics / granites
15.0-16.4				15.0-16.4 <u>Bedrock</u> weathered tonalite with diorite dyke 15.4-15.5
16.4				16.4 EOH

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 22/3 19 96

SHIFT HOURS
TO

TOTAL HOURS

CONTRACT HOURS

HOLE NO RR-96-313 LOCATION Site 119 / Aug 20 ELEVATION 1140¹²⁵

GEOLOGIST Arnold DRILLER Lapault BIT NO 71149 BIT FOOTAGE 52.4-7

MOVE TO HOLE 3:00 - 4:45

DRILL 9:45 - 12:15

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

MOVE TO NEXT HOLE 12:15 - 1:30

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
1	△△			0-3.6 <u>Organic</u> : peat-cedar swamp
2	△△			3.6-10.1 <u>Glacial Till</u>
3	△△			3.6-4.4 unsorted, light grey (probably reduced by organic acids)
4	△△			silty clayey matrix with abundant grit & 2% pebbles: limestone, granite volcanics
5	△△			4.4-5.4 oxidized beige, grading downhole to medium grey by 5.4, otherwise as above
6	△△			5.5: granite cobble
7	△△			pebble, grit content decreasing downhole after 8.0
8	△△			10.1-14.8 <u>Lake Agassiz Sediments</u>
9	△△			uniform medium grey clay with minor silt, no grit or pebbles, occasional beige silt, probably derived from 11.2-12.6
10	△△			14.8-18.6 <u>Labradorian Till</u>
11	△△			unsorted, grey beige silt & fine sand, matrix trace of pyrite, clast composition: 50/50 volcanics / granitoids some with granite some quartzified fragments trace of sediments at top grading downhole to 5/5/90 by bottom (local basalt / granite / greywacke)
12	△△			till, cobbly with some pebbles: clast supported slow drilling. Greywacke strongly foliated and moderately laminated
13	△△			16.6-18.6: little natural matrix: basal till / weathered bedrock
14	△△			17.1-17.5: sheared, amphibolitized greywacke - some accumulation at 16.7: trace of quartz vein material with red iron stained wall rock
15	△△			18.6-20.0 <u>Bedrock</u>
16	△△			greywacke: weakly foliated and laminated lower amphibolite grade
17	△△			20.0 EOH

RR-96
313

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE 22/03/1996 HOLE NO RR-96-314 LOCATION Target 19 ELEVATION 435 112'
 GEOLOGIST Arnell DRILLER Sigault BIT NO. 71149 BIT FOOTAGE 72.4-7'
 SHIFT HOURS _____ MOVE TO HOLE 12:15-1:30
 _____ TO _____ DRILL 1:30 - 3:00
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE 3:00 - 3:05

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	AA			0-0.4 <u>Organics peat</u>
1	AA 0 1			0.4-5.8 <u>Deuwater Till</u>
2	AA 0 1			<u>unsorted clayey silt matrix</u>
3	AA 0 1			<u>grading downhole to silty</u>
4	AA 0 1			<u>clay matrix, oxidized beige</u>
5	AA 0 1			<u>grading downhole to medium</u>
6	AA 0 1			<u>grey clay 3-6; abundant lithic</u>
7	AA 0 1			<u>grit & 2% mixed pebbles</u>
8				5.8-7.0 <u>Bedrock</u>
9				- dark green andesite
10				- black amphibole crystals
11				in light green felsic
12				groundmass
13				- weakly foliated & laminated
14				- slow drilling
15				7.0 EOH
16				Note: andesite outcrop 120 m east
17				of hole
18				see hole 314A Note.
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 22/03 1996 HOLE NO RR-96-314A LOCATION 2' N of 314 / target 19 ELEVATION 435122
 GEOLOGIST Arnell DRILLER Legault BIT NO. 71149 BIT FOOTAGE 794-85
 SHIFT HOURS _____ MOVE TO HOLE 3:00 - 3:05
 _____ TO _____ DRILL 3:05 - 3:30
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER 3:30 - 4:00 took GT truck to look for route to target 18
 _____ MOVE TO NEXT HOLE 4:00 - 5:30 : 6621 to wait for float

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0-0.4	△			Organic peat
0.4-5.8	△			Kewatin Till
2	△	RR-96 314A		unsorted clayey silt matrix grading down hole to silty clay matrix, oxidized bed to 3.6, medium grey below; abundant lithic grit, 2% mixed pebbles
5.8-5.9	△		01	Bedrock
6	|||||	ns		granodiorite as in RR-96-314 no bedrock sample taken
8				E045.9 Note: Since no Labradorian till was encountered in RR-96-314 and no clean material from Kewatin section was available, RR-96-314A was drilled to obtain a Kewatin sample. Time was short, therefore a quickly taken Kewatin sample was chosen rather than moving and re-drilling for possible Labradorian till.
17				The terrain between Targets 19 and 18 was checked to see if it was feasible to make a road between them with the Rodwell. Variable snow depth, very uneven and wet ground made the move impractical. Float called.

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 23/06 1976
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-96-315 LOCATION Site 126 / target 25 ELEVATION 1125
GEOLOGIST Arnall DRILLER Lepault BIT NO 71149 BIT FOOTAGE 79.4-107.5
MOVE TO HOLE 10:15 - 10:30
DRILL 10:30 - 1:15
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER Float 8:45 - 10:15
MOVE TO NEXT HOLE 1:15 - 1:30

page 1 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	11	0 - 1.4		<u>Organics: peat</u>
1	11	1.4 - 1.6		<u>Lake Agassiz Sediments</u>
2	1 Δ			massive, uniform grey clay, no grit or pebbles
3	1 Δ	1.6 - 11.8		<u>Kewatin Till</u>
4	0 \			very gritty, clayey silt matrix, oxidized beige grading downhole
5	1 Δ			to medium grey to 3.5% 1% pebbles composed of limestone and sandstone, rounded granite and angular volcanics, locally
6	1 Δ			pebble content decreases to < 4% between 9.9-6.8 and at 9.9.
7	Δ \			11.1-11.8 matrix becomes a silty clay.
8	1 0			11.8 - 19.2 <u>Lake Agassiz Sediments</u>
9	1 Δ			11.8 - 14.8: sand and gravel: beige, well-sorted fine sand-silt with few pebbles, localized clayey seams; trace of Kewatin till, as above, at 12.4, 13.1, 13.5
10	0 \			14.8 - 17.8: uniform, slate grey clay no pebbles, grit or silt
11	1 Δ			17.8 - 19.2 grey clay and beige silt - probably varves
12	0 \			19.2 - 20.9 <u>Kewatin Till</u> - as above with clayey matrix
13	1 0			
14	1 Δ			
15	1 Δ			
16	1 Δ			
17	1 Δ			
18	1 Δ			
19	1 Δ			
20	1 Δ			

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE _____ 19 _____ HOLE NO RR-96-315 LOCATION _____ ELEVATION _____
 GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
 SHIFT HOURS _____ TO _____ MOVE TO HOLE _____
 TOTAL HOURS _____ DRILL _____
 CONTRACT HOURS _____ 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		RR-96 20.9-24.7	315	<u>Labradorian Till</u> unsorted silt and fine sand matrix, oxidized beige grading downhole to grey beige by 21.4
22		01		clast composition 50/70: volcanics to granitoids becoming increasingly more granitoid with up to 90% of clasts being crushed
23		02		granitoid fragments between 22.0 and 24.0; trace of sediments
24		03		20.9-21.5; cobbly, some granitic pebbles.
25		04		
26				24.7-27.8: <u>Bedrock</u> saprotic greywacke
27				① 24.7-25.0 rounded beige silica granules
28				② 25.0-25.4 white kaolin and chips
29				③ 25.4-26.2 beige silica with khaki silt, trace of carbonate
30				④ 26.2-26.8 teal coloured, highly weathered chips, trace of quartz veining
31				⑤ 26.8-27.2 khaki chips
32				⑥ 27.2-27.8 khaki clay and chips
33				27.8 EOH

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE _____ 19 _____ HOLE NO RR-96-316 LOCATION _____ ELEVATION _____
 GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL _____
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

page 2 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
20				
21			RR-96 316	21.6-23.3 <u>Labradorean Till</u>
22			01	unsorted grey high silt and fine sand matrix; clast composition 40/60: volcanics/
23			02	granitoids, very sobbyly from 22.8' - 23.65, very little natural matrix
24			03	
25			04	23.3-26.4 <u>Bedrock</u>
26				dark green basalt
27				23.3 - 24.8: unquenched texture
28				no foliation or lamination
29				pyroxene phenocrysts altered & black amphibole in very fine (<0.1 mm, partly chloritized) felsic groundmass, iron staining
30				24.8 - 26.4 strongly foliated and granulated texture. appears to be sheared basalt or a, sericite chlorite schist
11				trace of native Cu
12				26.4 EPH
13				
14				
15				
16				
17				
18				
19				
20				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 23/03 1996
SHIFT HOURS _____
TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-96-317 LOCATION Site 12A/Tang 25 ELEVATION 1125
GEOLOGIST Ansell DRILLER Legault BIT NO 7145 BIT FOOTAGE 0-23.5
MOVE TO HOLE 3:15 - 3:30
DRILL 3:30 - 4:45
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE 4:45 - 5:30

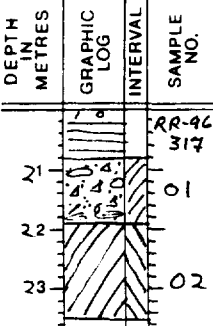
New bit, new sub

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0-1.9	AA			<u>Organics</u> : peat
1.9-2.2	AA			<u>Lake Agassiz Sediments</u>
2.2-5.0	AA			uniform grey clay little silt no grit or pebbles
2.2-5.0	/ Δ			<u>Keewatin Till</u>
2.2-5.0	/ Δ			very gritty, oxidized beige clayey silt matrix, 2% ^{med} pebbles consisting of 80/20 sediments/ igneous.
5.0-7.0	/ Δ			<u>Lake Agassiz Sediments</u> <u>Keewatin Till</u>
5.0-7.0	/ Δ			moderately sorted, beige silt and sand, with pebbly seams and occasional clay, interbedded with layers of Keewatin till with clayey grey matrix and <1% pebbles.
7.0-15.4	/ Δ			<u>Keewatin Till</u>
7.0-15.4	/ Δ			very gritty with medium grey clayey silt matrix, 1% ^{med} pebbles, as above; below 14.0 matrix becomes a silt/clay and pebbles decrease in abundance to <<1%.
15.4-20.8	/ Δ			<u>Lake Agassiz Sediments</u>
15.4-20.8	/ Δ			uniform slate grey clay with little silt, no grit or pebbles locally interbedded with Keewatin till as between 7.0-15.4

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE _____ 19 _____ HOLE NO RR-96-317 LOCATION _____ ELEVATION _____
 GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL _____
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

page 2 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
20.8 - 21.9		RR-96 317		<u>Labradorean Till</u> grey unsorted silt fine sand matrix clasts 30/70: volcanic/granitic cobbley trace of khaki clay at 21.5 21.8 bleached chlorite schist clasts
21.9 - 23.5				<u>Basalt</u> green basalt - strongly foliated - matrix chloritized - trace of disseminated coarse (+2-) pyrite cubes 22.6-23.5 still strongly foliated now schistose minor showing of small pebbles between the two layers probably debris as seen in outcrop between interbedded volcanics.
23.5				EOH

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 24/03 1996 HOLE NO RR-96-318 LOCATION Site 125/Temp 25 ELEVATION 1125
 GEOLOGIST Arnell DRILLER Lepout BIT NO. 71145 BIT FOOTAGE 27.5
 SHIFT HOURS _____ MOVE TO HOLE 4:45 - 5:30 (23/03/96) _____
 _____ TO _____ DRILL 8:30 - 12:15
 TOTAL HOURS _____ MECHANICAL DOWN TIME 11:00 - 11:20 replace engine in Nader
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE 12:15 - 12:45

pg 1/2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0	^ ^			0-1.3 <u>Organics: peat</u>
1	^ ^			1.3-14.6 <u>Kewatin Till</u>
2	^ ^			very gritty clayey silt matrix with 1% Ulmstone and sandstone pebbles and a few cobbles, occasional granitoid pebble and volcanic clast; till is oxidized beige at top of section grading downhole to medium grey by 4.4; locally matrix becomes a silty grey clay (at 10.3, 12.9 and 14.1); grit composition is 80/20: exotic sediments to more proximal volcanics and granitoids
3	^ ^			
4	^ ^			
5	^ ^			
6	^ ^			
7	^ ^			
8	^ ^			14.6-19.1 <u>Lake Agassiz Sediments</u>
9	^ ^			uniform slate grey clay with variable beige grit (probably varves) no grit or pebbles
10	^ ^			below 17.6 occasional gritty seams either debris floods or ice rafted grit
11	^ ^			
12	^ ^			
13	^ ^			19.1-22.3 <u>Lake Agassiz / Glacioluvial Sediments</u>
14	^ ^			moderately sorted fine beige sand, some silt with frequent pebbly seams, pebble composition 80/20 limestone and sandstone / granitoids and volcanics
15	^ ^			clayey Kewatin till layers at 21.4 and 22.3
16	^ ^			
17	^ ^			
18	^ ^			
19	^ ^			
20	^ ^			

**OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG**

DATE _____ 19 ____ HOLE NO RR-96-318 LOCATION _____ ELEVATION _____
 GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL _____
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

page 2 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21				22.3-24.1 <u>Kewatin Till</u> medium grey silty clay matrix, moderately gritty, 21% mixed pebbles: 80/20 limestone, sandstone volcanics, granitoids
22				
23				
24				24.1-27.0 <u>Lake Ossay Sediments</u> uniform grey clay with silty seams, some medium sand near top. transitional to overlying Kewatin
25				
26				below 24.5: some khaki silty clay seams increasing downhole may be reworked saprolite.
27				
28			01	27.0-29.4 <u>Labradorian Till</u> unsorted silt-fine sand matrix, grey-beige in colour, locally becoming grey when drilling basalt, cobbles appear to be more of a drilling effect; very cobby to 27.7 with little natural matrix, some pyritic, basalt cobbles
29			02	
30			03	
31				27.1-27.4: fresh granite boulder
32				clast composition 15/85: volcanics/granitoids
33				27.7: muscivagant granite debris 85% of +10
34				28.4-28.9 matrix grey silt, fine sand
35				5% teal coloured shaled volcanics.
36				
37				31.0 EOH
38				
39				
40				

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE 24/03 19 96
SHIFT HOURS _____ TO _____
TOTAL HOURS _____
CONTRACT HOURS _____

HOLE NO RR-96-319 LOCATION Site 124/Tangit 25 ELEVATION 1125
GEOLOGIST Ansell DRILLER Zegault BIT NO. 71145 BIT FOOTAGE 585-825
MOVE TO HOLE 12:15 - 12:45
DRILL 12:45 - 300
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
MOVE TO NEXT HOLE 3:30 - 3:45 to road for float

pg 1 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
0-1.4	△△			<u>Organics</u> peat + marsh
1.4-12.2	△△			<u>Kewatin Till</u>
2	△			very gritty silty silt matrix
3	○			oxidized beige, grading down to
4	△			to medium grey by 4.6, < 1% ls pebbles
4.3-8.6	○			granitic cobble pushing ahead of bit; return
5	△			consists of clay and cuttings
6	○			8.6-9.3: local increase in grit, sand and pebbles to 5%
7	△			9.6, 11.8 localized clay seams
8	○			12.2-19.1 <u>Lake Agassiz Sediments</u>
9	△			uniform slate grey clay with soft, medium grey clay + fine
10	○			beige silty clay seams, no pebbles or grit, Kewatin till seams to 13.4
11	△			19.1-22.7 <u>Labradorian Till</u>
12	△			unsorted, grey beige fine silt-sand matrix, clast composition
13	△			30/70: volcanic/granitoid increasing to 10/90 from
14	△			19.3 to 20.4 with quartzified granitic fragments dominating the
15	△			clasts. cobbly to very cobbly both volcanics and granitoids
16	△			bleached, shaled volcanic clasts at 19.8
17	△			
18	△			
19	△			
20	△			

RR-96
319

01

OVERBURDEN DRILLING MANAGEMENT LIMITED
REVERSE CIRCULATION DRILL HOLE LOG

DATE _____ 19 _____ HOLE NO RR-96-319 LOCATION _____ ELEVATION _____
 GEOLOGIST _____ DRILLER _____ BIT NO. _____ BIT FOOTAGE _____
 SHIFT HOURS _____ MOVE TO HOLE _____
 _____ TO _____ DRILL _____
 TOTAL HOURS _____ MECHANICAL DOWN TIME _____
 _____ DRILLING PROBLEMS _____
 CONTRACT HOURS _____ OTHER _____
 _____ MOVE TO NEXT HOLE _____

pg 2 of 2

DEPTH IN METRES	GRAPHIC LOG	INTERVAL	SAMPLE NO.	DESCRIPTIVE LOG
21		02		<p>quasified granitic material disappears by 24.4 and clast composition changes to 70/90: volcanics/granitoids and matrix changes to grey fine sand and silt 22.4 vein quartz 22.7-24.0 <u>Bedded</u> medium green andesite as teal blue clay and small chips no foliation or lineation 30% amphibole in cloudy crystalline plagioclase and chlorite matrix, granular no sulphides 24.0 EOH</p>
22		03		
23		04		
24				
25				
26				
27				
28				
29				
30				
11				
12				
13				
14				
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18				
19				
20				

Nuinsco Resources Limited

Rainy River Project

WORK REPORT

VOL. II

1996 Reverse Circulation Drill Data



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July 22, 1996

APPENDIX II

DETAILED GOLD GRAIN COUNTS CALCULATED VISIBLE GOLD ASSAYS

Rainy River Project
Work Report
1996 Reverse Circulation Drill Data
Paul Jones, Project Geologist
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DETAILED GOLD GRAIN COUNTS CALCULATED VISIBLE GOLD ASSAYS

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OVERBURDEN DRILLING MANAGEMENT LIMITED - LABORATORY SAMPLE LOG

ABBREVIATIONS

DATA LOG

Clast:

Size of Clast:
 G: Granules
 P: Pebbles
 C: Cobbles
 BL: Boulder Chips
 BK: Bedrock Chips

% Clast Composition:
 V/S: Volcanics and Sediments
 GR: Granitics
 LS: Limestone
 OT: Other Lithologies
 (Refer to Footnotes)
 TR: Only Trace Present
 NA: NOT APPLICABLE
 OX: Oxidized

Class:

BLD: Boulder Chips
 BDK: Bedrock Chips

Matrix:

S/U: Sorted or Unsorted
 SD: Sand ----- | F: Fine
 ST: Silt | M: Medium
 CY: Clay | C: Coarse
 OR: Organics
 Y: Fraction Present
 +: Fraction more abundant than normal
 -: Fraction less abundant than normal
 N: Fraction Not Present
 L: Lumps Present

Colour:

B: Beige	PP: Purple
GY: Grey	PK: Pink
GB: Grey Beige	OC: Ochre
GN: Green	
GG: Grey Green	L: Light
BN: Brown	M: Medium
BK: Black	D: Dark

GOLD LOG

Number of Grains:

T: Number Found on Shaking Table
 P: Number Found by Panning

Thickness:

C: Calculated Thickness of Grain (in microns)
 M: Actual Measured Thickness of Grain (in microns)

Remarks:

%	Percentage of HMC (estimated from panning of table concentrate)
gr.	Grains (estimated number)
µM	Microns (1/1000 mm)
py.	Pyrite
cpy.	Chalcopyrite
aspy.	Arsenopyrite
marc.	Marcasite
L/G.	Limonite/Goethite
sid.	Siderite

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS	MEASUREMENT (MICRONS)	NUMBER OF GRAINS								NON MAG	CALC V.G. ASSAY	REMARKS
		RESHAPED		MODIFIED		PRISTINE		TOTAL				
		T	P	T	P	T	P					
SAMPLE #	PANNED	DIAMETER	THICKNESS	T	P	T	P	T	P	GMS	PPB	
RR-96												
212-01	Y	15 X 15	3 C			1				1		
		15 X 25	4 C			2				2		
		25 X 25	5 C			3	1			4		
		25 X 50	8 C	3	1	1				5		
		25 X 75	10 C			2				2		
		50 X 50	10 C			1				1		
		50 X 75	13 C	1						1		
		50 X 125	18 C	1						1		
		75 X 100	50 M	1						1		
		75 X 175	25 C	1						1		
		75 X 200	27 C	1						1		
		75 X 225	25 M	1						1		
		100 X 100	20 C		1					1		
										22	71.7	248
213-01	Y	15 X 50	7 C	1		1	1			3		
		15 X 75	9 C					1		1		
		25 X 25	5 C	1		2		1		4		
		25 X 50	8 C	1		2	1	1		5		
		50 X 50	10 C	1		2				3		
		50 X 75	13 C	1						1		
		50 X 100	15 C			1				1		
		125 X 150	27 C			1				1		
										19	26.4	236
214-01	Y	10 X 75	9 C		1					1		
		15 X 25	4 C	1	1	1				3		
		15 X 50	7 C					1		1		
		25 X 25	5 C	2		2				4		
		25 X 50	8 C	3		1				4		
		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					2		
		50 X 75	13 C		2	2				4		
		50 X 100	15 C		1					1		
		50 X 125	18 C					1		1		
		75 X 75	15 C					1		1		
		75 X 125	20 C					1		1		
										27	82.1	94
214-02	Y	15 X 15	3 C			1				1		
												30% pyrite; Tr. Aspy

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS		NUMBER OF GRAINS										NON MAG GMS	CALC ASSAY PPB	V.G. REMARKS			
		MEASUREMENT (MICRONS)		RESHAPED		MODIFIED		PRISTINE		TOTAL							
		SAMPLE #	PANNED Y/N	DIAMETER	THICKNESS	T	P	T	P	T	P				T	P	
RR-96		25 X 25	5 C			1						1					*4000 grains of native copper.
		25 X 100	13 C						1				1				
		50 X 100	15 C			1							1				
		75 X 75	15 C	1									1				
		75 X 100	18 C			2							2				
		75 X 175	25 C						1				1				
												8	26.2	252			
215-01	Y	15 X 50	7 C	1									1				80% pyrite
		25 X 50	8 C	2									2				*1000 grains of native copper.
		25 X 75	10 C	1		1							2				
		50 X 50	10 C	1									1				
		50 X 100	15 C					1					1				
		75 X 75	15 C			1							1				
		100 X 125	22 C		1								1				
		100 X 150	25 C	1									1				
		125 X 125	25 C	1	1								2				
		125 X 250	36 C	1									1				
												13	85.8	260			
215-02	Y	50 X 75	13 C	1									1				10% pyrite;0.5% siderite;(0.1% Aspy
												1	25.2	15	*10000 grains of native copper.		
215-03	Y	25 X 25	5 C	3									3				20% pyrite;0.5% siderite;(0.1% Aspy
		25 X 100	13 C			1							1				*3000 grains of native copper.
		50 X 50	10 C					1					1				Tr. chalcocite coated pyrite.
		50 X 175	22 C	1									1				
		75 X 100	18 C	1									1				
		75 X 125	20 C			1							1				
												8	46.0	115			
215-04	Y	15 X 15	3 C	1									1				50% pyrite;0.5% siderite;(0.1% Aspy
		15 X 25	4 C		1	1							2				*1000 grains of native copper.
		25 X 25	5 C	2									2				Tr. chalcocite coated 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				
												10	44.4	39			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS		MEASUREMENT (MICRONS)		NUMBER OF GRAINS								NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
SAMPLE #	PANNED Y/N	DIAMETER	THICKNESS	RESHAPED		MODIFIED		PRISTINE		TOTAL				
				T	P	T	P	T	P					
RR-96														
216-01	Y	10 X 10	2 C	1							1			30% pyrite; (0.1% Aspy ~200 grains of native copper.
		15 X 50	7 C	1							1			
		25 X 25	5 C		1	1					2			
		25 X 50	8 C	1							1			
		25 X 75	10 C	1							1			
		25 X 175	20 C		1						1			
		50 X 50	10 C	1		1					2			
		50 X 75	13 C				1				1			
		75 X 75	15 C	1							1			
		100 X 125	22 C		1						1			
		150 X 25	18 C			1					1			
											13	36.9	174	
217-01	Y	15 X 25	4 C	1				1			2			90% pyrite; (0.1% Aspy)
		15 X 50	7 C						1		1			
		25 X 25	5 C	3		1					4			
		25 X 50	8 C			2		2			4			
		25 X 75	10 C			1		1			2			
		25 X 100	13 C				1				1			
		50 X 75	13 C	1		1		3			5			
		50 X 100	15 C					1			1			
		75 X 125	20 C		1						1			
		75 X 175	25 C	1							1			
		100 X 150	25 C			1					1			
		175 X 325	125 M			1					1			
											24	140.6	495	
217-02	Y	15 X 15	3 C			4	1	1			6			80% pyrite; (0.1% Aspy)
		25 X 25	5 C			5	2				7			
		25 X 50	8 C		1	2	1				4			
		50 X 50	10 C			3					3			
		50 X 100	15 C			2					2			
		50 X 175	22 C			1					1			
		100 X 125	22 C			1					1			
		125 X 175	75 M	1							1			
											25	63.5	304	
217-03	Y	25 X 25	5 C			2					2			60% pyrite; (0.1% Aspy)
		25 X 50	8 C					1			1			
		125 X 200	100 M			1					1			
											4	50.1	398	

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS	SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS)		NUMBER OF GRAINS						NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS	
					RESHAPED		MODIFIED		PRISTINE					TOTAL
					T	P	T	P	T	P				
RR-96														
240-01	N		15 X 15	3 C	1					1				
			25 X 50	8 C	1					1				
			50 X 100	15 C	1					1				
										3	82.3	9		
240-02	N		15 X 25	4 C	1					1				
			25 X 25	5 C	1					1				
			25 X 50	8 C	2					2				
										4	18.7	11		
241-01	N		25 X 50	8 C	1					1				
			50 X 75	13 C			1			1				
										2	54.4	8		
241-02	N		25 X 75	10 C	1					1			~10 grains of native copper (~25u)	
			75 X 175	25 C	1					1				
										2	63.5	49		
242-01	N		75 X 100	18 C	1					1				
			175 X 300	44 C	1					1				
										2	52.5	376		
243-01	N		NO VISIBLE GOLD											
243B-01	N		25 X 50	8 C	1					1				
			50 X 75	13 C	1					1				
										2	10.9	42		
244-01	Y		25 X 25	5 C	1		1	1		3			7x pyrite	
			25 X 50	8 C		1		2		3			1 grain of native copper (400X1100x	
			25 X 75	10 C		2				2			300u)	
			50 X 50	10 C	1					1				
			50 X 75	13 C		1				1				
			50 X 125	18 C		1				1				
			75 X 75	15 C		1				1				
			150 X 275	40 C	1					1				
										13	78.6	210		

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS	SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS)		NUMBER OF GRAINS								NON MAG GMS	CALC V.G. PPB	REMARKS
			DIAMETER	THICKNESS	RESHAPED		MODIFIED		PRISTINE		TOTAL				
					T	P	T	P	T	P					
RR-96															
244-02	Y		15 X 25 X	25 25	4 C 5 C					1 1	1 1			7% pyrite	
												2	57.6	1	
244-03	N		NO VISIBLE GOLD												
246-01	N		NO VISIBLE GOLD												
246-02	N		50 X	75	13 C					1					
												1	44.7	8	
246-03	N		NO VISIBLE GOLD												
246-04	Y		50 X	75	13 C					1				0.3% pyrite; 50% siderite ~400 grains of native copper (~30 8 grains are >= 1 mm in size)	
												1	48.0	8	
247-01	N		NO VISIBLE GOLD												
247-02	N		25 X 25 X 50 X	25 50 75	5 C 8 C 13 C	1 1 1						1 1 1			
												3	76.6	6	
247-03	N		25 X 50 X	50 100	8 C 15 C	2 1						2 1		1 grain of native copper	
												3	61.5	13	
247-04	Y		15 X 15 X 50 X 50 X 75 X	15 25 75 100 150	3 C 4 C 13 C 15 C 22 C	1 1 1 1 1						1 2 1 1 1		7% pyrite ~10 grains of native copper (>=50u)	
												6	53.7	59	
248-01	N		25 X 25 X	50 75	8 C 10 C	2 1						2 1			
												3	70.3	5	

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS	SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS)		NUMBER OF GRAINS						NON MAG GMS	CALC PPB	V.G. ASSAY PPB	REMARKS	
					RESHAPED		MODIFIED		PRISTINE						TOTAL
					T	P	T	P	T	P					
RR-96	248-02	N	75 X	125	20 C					1					
										1	74.4	20			
	248-03	Y	10 X	15	3 C					1				30% pyrite	
			15 X	25	4 C					1					
			25 X	75	10 C	1				1					
			50 X	75	13 C				1	1					
			75 X	100	18 C	1				1					
										5	26.6	60			
	249-01	N	NO VISIBLE GOLD												
	249-02	N	25 X	75	10 C	1				1				8 grains of native copper (=250u)	
			75 X	150	22 C	1				1					
			125 X	200	31 C	1				1					
										3	40.8	210			
	250-01	N	15 X	50	7 C				1	1					
			25 X	50	8 C	2				2					
										3	62.6	3			
	250-02	N	25 X	25	5 C	1				1					
										1	49.3	0			
	250-03	Y	15 X	25	4 C				1	1				5% pyrite	
			15 X	50	7 C				2	2					
			25 X	25	5 C	1				1					
			25 X	50	8 C				1	1					
			25 X	75	10 C	1			1	2					
			25 X	100	13 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					
										13	56.3	67			
	251-01	N	25 X	50	8 C				1	1				~150 grains of native copper(=250u)	
			25 X	75	10 C				1	1					
			50 X	50	10 C	1				1					
			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)		NUMBER OF GRAINS						NON MAG GMS	CALC ASSAY PPB	V.G. ASSAY PPB	REMARKS	
					RESHAPED		MODIFIED		PRISTINE						TOTAL
					T	P	T	P	T	P					
RR-96											7	73.5	53		
255-02	N		50 X 75	13 C	1						1			~200 grains of native copper observed on the table.	
											1	30.3	12		
255-03	N		NO VISIBLE GOLD												~2000 grains of native copper (<=750u) Many of the pyrite crystals are covered with chalcocite.
256-01	N		25 X 25	5 C	1						1			~50 grains of native copper (<=250u)	
			25 X 50	8 C	1						1				
			50 X 50	10 C	2						2				
											4	28.4	17		
256-02	N		NO VISIBLE GOLD												~300 grains of native copper (<=600u)
257-01	Y		25 X 25	5 C	1						1			4% pyrite; 1% siderite	
			25 X 50	8 C			2				2			~50 grains of native copper (<=250u)	
			50 X 75	13 C				1			1				
											4	52.4	11		
257-02	N		50 X 50	10 C	1						1				
			50 X 75	13 C	1						1				
			75 X 100	18 C	1						1				
											3	21.4	74		
257-03	N		NO VISIBLE GOLD												
257-04	N		50 X 75	13 C	1						1				
			50 X 150	20 C	1						1				
			75 X 150	22 C	1						1				
			100 X 125	22 C	1						1				
											4	31.0	197		
258-01	N		15 X 15	3 C			1				1			~50 grains of native copper (<=100u)	
			25 X 50	8 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)		NUMBER OF GRAINS						MAG GMS	NON PPB	CALC V.G.	REMARKS	
					RESHAPED		MODIFIED		PRISTINE						TOTAL
					T	P	T	P	T	P					
RR-96			DIAMETER	THICKNESS											
			50 X 100	15 C			1			1					
			100 X 100	20 C				1		1					
			100 X 175	27 C			1			1					
										27	59.1	190			
261-05	N		25 X 50	8 C	1		1			2			40% pyrite		
			50 X 75	13 C	3					3			~200 grains of arsenopyrite (=100u)		
			100 X 100	20 C	1					1			~500 grains of native copper (=250u)		
										6	61.5	45	~10 grains of native copper (300 to 2000u)		
262-01	Y		25 X 50	8 C	1					1			5% pyrite; 10% siderite; 1% L/G;		
			50 X 100	15 C	1		1			2			TR. arspy. (200 grains of arspy. (=200u)		
			50 X 225	27 C	1					1			~2500 grains of native copper (=250u)		
										4	36.2	143	~50 grains of native copper (300 to 2000u)		
													~50 grains of galena (=100u)		
262-02	Y		25 X 50	8 C			1			1			8% pyrite; 5% siderite; TR. arspy.		
			25 X 75	10 C	1					1			(~100 grains of arsenopyrite)		
			50 X 75	13 C	1					1			~1000 grains of native copper (=250u)		
										3	31.0	21	~100 grains of native copper (250 to 750u)		
													~20 grains of galena (=100u)		
262-03	Y		25 X 25	5 C	1					1			5% pyrite; 10% siderite; TR. L/G;		
			25 X 75	10 C	1					1			TR. arspy. (~20 grains of arspy.)		
			100 X 125	22 C			1			1			~800 grains of native copper (=250u)		
										3	33.0	71	~100 grains of native copper (250 to 750u)		
													5 grains of native copper (750u)		
262-04	Y		25 X 50	8 C	1					2			5% pyrite; Tr. ars.; 10% siderite;		
			25 X 75	10 C	1					1			Tr. L/G		
													~800 grains of native copper (=250u)		
										3	25.4	14	~50 grains of native copper (250 to 750u)		

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS	SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS)		NUMBER OF GRAINS										NON MAG GMS	CALC PPB	V. G. ASSAY	REMARKS
					RESHAPED		MODIFIED		PRISTINE		TOTAL							
					T	P	T	P	T	P	T	P						
RR-96																	5 grains of native copper (>750u)	
262-05	Y		50 X 50	10 C		1	1					2					8% pyrite; 5% siderite; Tr. L/G	
			50 X 75	13 C	1							1					~2500 grains of native copper	
			75 X 125	20 C	1							1					((=250u)	
													4	43.0	52		~150 grains of native copper (250 to 750u)	
																	10 grains of native copper (>750u)	
																	1 reshaped (125X150u) grain of native silver (confirmed by EDS)	
262-06	Y		15 X 25	4 C	1							1					5% pyrite; 5% siderite	
			25 X 25	5 C	1							1					~1500 grains of native copper	
			25 X 50	8 C	1				1			2					((=250u)	
			25 X 75	10 C	1							1					~75 grains of native copper	
			50 X 100	15 C		1						1					(250 to 750u)	
													6	42.4	24		5 grains of native copper (>750u)	
262-07	Y		25 X 25	5 C			1					1					2% pyrite; 10% siderite	
			75 X 125	20 C								1					~2000 grains of native copper	
													2	15.2	100		((=250u)	
																	~100 grains of native copper (250 to 1000u)	
263-01	Y		25 X 50	8 C	1	1						2					1% pyrite; 90% of the pyrite is chalcocite coated.	
			50 X 50	10 C	1							1					~2000 grains of native copper	
			50 X 75	13 C	1							1					((250u)	
			50 X 100	15 C	1							1					~100 grains of native copper (250 to 1000u)	
													5	39.3	35			
264-01	Y		25 X 25	5 C	4							4					20% pyrite; 5% siderite	
			50 X 50	10 C	1							1					~1000 grains of native copper	
			50 X 100	15 C	1							1					((250u)	
													6	44.6	21		~200 grains of native copper (250 to 2000u)	
264-02	Y		25 X 25	5 C		1						1					20% pyrite; 5% siderite; TR. arspy.	
			25 X 50	8 C		1						1					(~50 grains of arsenopyrite((100u))	
			50 X 100	15 C		1						1					~3000 grains of native copper	
													3	63.2	12		((250u)	
																	~400 grains of native copper (250 to 2500u)	

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS		MEASUREMENT (MICRONS)		NUMBER OF GRAINS						NON MAG GMS	CALC ASSAY PPB	V.G. REMARKS	
SAMPLE #	PANNED Y/N	DIAMETER	THICKNESS	RESHAPED		MODIFIED		PRISTINE TOTAL					
				T	P	T	P	T	P				
RR-96													There is an unusually high concentration of hematized magnetite crystals.
264-03	Y	25 X 50 X	25 125	5 C 18 C	1 1					1 1			10% pyrite; 15% siderite; TR. arspy (*50 grains of arsenopyrite((100u)) ~3000 grains of native copper (250u) ~400 grains of native copper (250 to 1500u)
										2	53.7	19	
265-01	Y	15 X 15 X 25 X 25 X 50 X 50 X 75 X	15 25 25 50 50 75	3 C 4 C 5 C 8 C 10 C 13 C 15 C	1 1 1 2 1 1		1			1 2 1 2 1 1			5% pyrite; 10% siderite ~2000 grains of native copper (250u) ~100 grains of native copper (250 to 1000u)
							1			1			
										9	16.9	84	
265-02	Y	25 X 75 X	50 100	8 C 18 C			1 1			1 1			20% pyrite; 10% siderite ~5000 grains of native copper (250u) ~500 grains of native copper (250 to 1000u) The 75X100 gold grain is intergrown with pyrite.
										2	30.5	36	
265-03	Y	NO VISIBLE GOLD											5% pyrite; 5% siderite ~5000 grains of native copper (250u) ~200 grains of native copper (250 to 1000u)
265-04	Y	25 X 25 X	25 75	5 C 10 C			1 1			1 1			5% pyrite; 5% siderite ~5000 grains of native copper (250u) ~100 grains of native copper (250 to 1000u)
										2	16.6	13	
265-05	Y	25 X 25 X 75 X	25 50 75	5 C 8 C 15 C	1 1		1			1 1 1			1% pyrite; 10% siderite ~2000 grains of native copper (250u) ~100 grains of native copper

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS				NUMBER OF GRAINS								NON MAG GMS	CALC ASSAY PPB	V.G. REMARKS
SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS) DIAMETER THICKNESS		RESHAPED T P		MODIFIED T P		PRISTINE T P		TOTAL				
RR-96											3	17.0	44	(250 to 1000u)
266-01	Y	75 X	100	18 C			1				1			4% pyrite; 5% siderite ~1000 grains of native copper
											1	16.1	63	(250u) ~100 grains of native copper (250 to 1000u)
266-02	Y	15 X	15	3 C			1				1			10% pyrite; 10% siderite
		15 X	25	4 C	1						1			~3000 grains of native copper
		25 X	25	5 C	1			1			2			(250u) ~300 grains of native copper
											4	39.2	2	(250 to 3000u)
266-03	Y	25 X	75	10 C	1	1					2			10% pyrite; 10% siderite
		50 X	50	10 C		1					1			~3000 grains of native copper
		75 X	100	18 C	1			1			1			(250u)
		100 X	100	20 C	1						1			~300 grains of native copper (250 to 3000u)
											5	20.8	148	
266-04	Y	75 X	75	15 C	1						1			1% pyrite; 20% siderite
		75 X	150	50 M	1						1			~1500 grains of native copper (250u)
											2	8.2	657	~10 grains of native copper (250 to 2000u)
267-01	Y	15 X	25	4 C			2	1			3			30% pyrite; 10% siderite; TR. anspy
		25 X	25	5 C	3		4				7			(~200 grains of anspy. (500u))
		25 X	50	8 C	2	1	4		1		8			~100 grains of native copper
		25 X	100	13 C			1				1			(250u)
		50 X	50	10 C	5						5			~10 grains of native copper
		50 X	75	13 C	2		2	1			5			(250 to 1000u)
		50 X	100	15 C	3						3			
		50 X	125	18 C	1						1			
		75 X	200	27 C			1				1			
		175 X	275	42 C			1				1			
											35	83.6	321	
267-02	Y	15 X	15	3 C	2						2			30% pyrite; 10% siderite
		25 X	25	5 C	2						2			~30 grains of native copper
		25 X	50	8 C	2						2			(250u)
		25 X	100	13 C			1				1			~5 grains of native copper
		50 X	75	13 C			2				2			(250 to 1000u)

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS	SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS)		NUMBER OF GRAINS						NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS	
			DIAMETER	THICKNESS	RESHAPED		MODIFIED		PRISTINE					TOTAL
					T	P	T	P	T	P				
RR-96			50 X 125	18 C	1						1			
			75 X 175	25 C	1						1			
			150 X 375	48 C	1						1			
											12	39.7	760	
267-03	Y		25 X 25	5 C			1				1			60% pyrite; 10% siderite; TR. arspy
			25 X 50	8 C			2		1		3			(*200 grains of arspy. ((200u))
			50 X 50	10 C					1		1			*300 grains of native copper
			50 X 100	15 C	1	1					2			((250u))
			75 X 100	18 C			1				1			*30 grains of native copper
			75 X 125	20 C	1		1				2			(250 to 1000u)
											10	75.7	76	
267-04	N		50 X 50	10 C	1		1				2			*100 grains of native copper
			50 X 125	18 C			1				1			((250u))
											3	55.5	25	
267-05	N		25 X 25	5 C	1						1			
			25 X 50	8 C	1						1			
			50 X 75	13 C	1						1			
			50 X 125	18 C	1						1			
											4	23.2	64	
267-06	N		25 X 50	8 C	1						1			
											1	4.4	19	
268-01	Y		15 X 75	9 C	1						1			20% pyrite; 20% siderite
			25 X 25	5 C					1		1			*700 grains of native copper
			50 X 75	13 C	1	1					2			((250u))
			50 X 100	15 C		1					1			*30 grains of native copper
			50 X 125	18 C	1	1					2			(250 to 1500u)
											7	35.2	102	
268-02	N		15 X 15	3 C	1						1			*250 grains of native copper
			25 X 25	5 C	1						1			((250u))
			25 X 50	8 C	1						1			
											3	36.5	3	

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS		MEASUREMENT (MICRONS)		NUMBER OF GRAINS						NON	CALC	V.G.	REMARKS
SAMPLE #	PANNED	DIAMETER	THICKNESS	RESHAPED		MODIFIED		PRISTINE		TOTAL	MAG	ASSAY	
	Y/N			T	P	T	P	T	P	GMS	PPB		
RR-96													
269-06	N	25 X 50	8 C	2						2			*30 grains of native copper (250u)
		50 X 75	13 C	2						2			
		175 X 375	50 C	1						1			
										5	54.8	536	
269-07	Y	25 X 25	5 C	1						1			60% pyrite *50 grains of native copper (750u)
		25 X 50	8 C	1				1		2			
		25 X 75	10 C	1						1			
		50 X 50	10 C	1						1			
		50 X 75	13 C		1					1			
										6	63.2	15	
269-08	N	NO VISIBLE GOLD											*50 grains of native copper (250u)
269-09	Y	25 X 50	8 C			1	1			2			20% pyrite; 20% siderite The pyrite is very tarnished. 1 grain of native copper (1000X2000u)
		25 X 100	13 C			1				1			
										3	45.7	12	
269-10	Y	15 X 15	3 C	1						1			60% pyrite; TR. arspy.; *100 grains of arspy. ((100u); 5% siderite *100 grains of native copper (250u) *10 grains of native copper (250 to 1500u)
		25 X 25	5 C	2						2			
		25 X 75	10 C			1			1	2			
		25 X 100	13 C				1			1			
		50 X 50	10 C			2		1	1	4			
		50 X 75	13 C	1	2					3			
		50 X 100	15 C	1	2					3			
		75 X 75	15 C	1						1			
										17	69.0	76	
269-11	Y	15 X 15	3 C						1	1			15% pyrite; 20% siderite *200 grains of native copper (250u)
		15 X 25	4 C				1		1	2			
		15 X 50	7 C	1					1	2			
		25 X 25	5 C				1			1			
		25 X 50	8 C	1	3				1	5			
		25 X 75	10 C	1						1			
		25 X 100	13 C						1	1			
		75 X 125	20 C	1						1			
										14	87.7	30	

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS	SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS)		NUMBER OF GRAINS										NON MAG GMS	CALC ASSAY PPB	V.G. REMARKS
					RESHAPED		MODIFIED		PRISTINE		TOTAL						
					T	P	T	P	T	P	T	P					
RR-96																	
269-12	Y		25 X 50	8 C			2					2					15% pyrite; 20% siderite ~50 grains of native copper (250u)
												2	28.8	6			
271-01	Y		15 X 50	7 C		1		1				2					50% pyrite
			25 X 25	5 C	1		1					2					~500 grains of native copper (250u)
			25 X 50	8 C	1							1					
			50 X 50	10 C			2					3					~300 grains of native copper (250 to 2500u)
			100 X 125	22 C	1							1					
			100 X 150	25 C	1							1					
												10	49.9	117			
271-02	Y		15 X 75	9 C						1		1					50% pyrite
			25 X 50	8 C	1		1					2					~500 grains of native copper (250u)
			25 X 75	10 C		2	1					3					
			25 X 100	13 C		1		1				2					~300 grains of native copper (250 to 1000u)
			50 X 100	15 C		1						1					
			75 X 100	18 C		1						1					~100 grains of galena ((100u)
												10	32.2	102			
272-01	Y		25 X 50	8 C	2							2					10% pyrite; TR. arspy. (~30 grains of arspy. ((250u)); 5% siderite
			25 X 75	10 C	1							1					~1000 grains of native copper (250u)
			50 X 50	10 C	1			1				2					
			50 X 75	13 C				1				1					
			75 X 150	22 C				1				1					~100 grains of native copper (250 to 1000u)
												7	61.7	52			
272-02	Y		50 X 75	13 C	1					1		2					10% pyrite; 5% siderite
			50 X 100	15 C	1							1					~300 grains of native copper (250u)
			50 X 150	20 C	1							1					
			100 X 150	25 C	1							1					~30 grains of native copper (250 to 750u)
			125 X 125	25 C	1							1					
			175 X 300	44 C	1							1					
												7	42.6	643			
272-03	Y		25 X 25	5 C	1		1					2					5% pyrite
			25 X 50	8 C	1		1					2					~100 grains of native copper (250u)
			50 X 75	13 C			1					1					
			75 X 75	15 C	1							1					
			75 X 100	18 C	1							1					
			75 X 150	22 C	1							1					

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS				NUMBER OF GRAINS						NON MAG GMS	CALC ASSAY PPB	V. G. REMARKS
SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS)		RESHAPED		MODIFIED		PRISTINE					TOTAL
		DIAMETER	THICKNESS	T	P	T	P	T	P			
RR-96										8	51.0	85
272-04	N	25 X 25	5 C	1						1		
		25 X 50	8 C	1						1		
		75 X 100	18 C	1						1		
		100 X 125	22 C	1						1		
		150 X 200	34 C	1						1		
										5	42.7	257
272-05	Y	125 X 200	75 M		1					1		10% pyrite
										1	16.7	889
272-06	Y	15 X 25	4 C	3		1				4		10% pyrite
		15 X 50	7 C			1				1		
		25 X 25	5 C			1				1		
		50 X 75	13 C	1						1		
		75 X 75	15 C		1					1		
		75 X 100	18 C	1						1		
		100 X 200	29 C	1						1		
		300 X 375	59 C	1						1		
										11	17.7	3272
272-07	Y	75 X 125	20 C		1					1		10% pyrite
										1	16.7	90
272-08	N	50 X 75	13 C	2						2		
										2	11.3	66
272-09	N	25 X 25	5 C	1						1		
		50 X 75	13 C	1						1		
		50 X 150	20 C	1						1		
		75 X 125	20 C	1						1		
										4	24.2	140
272-10	N	50 X 50	10 C	2						2		
										2	27.7	14

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS		MEASUREMENT (MICRONS)		NUMBER OF GRAINS						NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS	
SAMPLE #	PANNED Y/N	DIAMETER	THICKNESS	RESHAPED		MODIFIED		PRISTINE TOTAL					
				T	P	T	P	T	P				
RR-96													
272-11	Y	25 X	25	5 C	1					1			5% pyrite
		25 X	50	8 C	1					1			
		50 X	50	10 C	1					1			
										3	33.6	9	
272-12	Y	15 X	15	3 C				1		1			5% pyrite
		25 X	50	8 C	1		1			2			
		50 X	50	10 C	1					1			
		50 X	75	13 C	1	1				2			
		75 X	100	18 C		1				1			
		100 X	100	20 C		1				1			
		150 X	175	31 C		1				1			
										9	35.5	278	
272-13	N	25 X	50	8 C	1					1			
										1	40.6	2	
272-14	N	25 X	25	5 C			1			1			~50 grains of native copper
		50 X	50	25 M	1					1			((250u)
		50 X	125	18 C	1					1			
		75 X	175	25 C	1					1			
										4	23.9	184	
272-15	N	50 X	75	13 C	1					1			
										1	31.6	12	
272-16	Y	50 X	50	10 C	1					1			3% pyrite; 30% siderite
		50 X	100	15 C	1					1			~20 grains of native copper
										2	49.9	17	((500u)
													~50 grains of galena ((100u)
272-17	Y	25 X	50	8 C		1	3			4			5% pyrite; 5% siderite
		25 X	75	10 C	1					1			~50 grains of native copper
		50 X	50	10 C	2	1	1			4			((250u)
		50 X	75	13 C	1		1			2			~20 grains of native copper
		50 X	100	15 C	1					1			(250 to 750u)
		75 X	75	15 C	2					2			
		150 X	175	75 C	1					1			
										15	30.0	627	

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS	SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS)		NUMBER OF GRAINS						NON MAG GMS	CALC ASSAY PPB	V.G. REMARKS	
			DIAMETER	THICKNESS	RESHAPED		MODIFIED		PRISTINE					TOTAL
					T	P	T	P	T	P				
RR-96														
272-18	Y		25 X 25	5 C				1			1		10% pyrite; 5% siderite	
			25 X 50	8 C	2	1	2				5		~300 grains of native copper	
			25 X 75	10 C	1		1				2		((250u)	
			25 X 100	13 C	1						1		~100 grains of native copper	
											9	31.0	38	
273-01	Y		25 X 50	8 C	1						1		15% pyrite	
			75 X 75	15 C					1		1		~100 grains of native copper	
			100 X 100	20 C	1						1		((250u)	
											3	26.4	84	
													~50 grains of native copper	
													(250 to 1000u)	
273-02	Y		10 X 25	4 C			1				1		4% pyrite; 3% marcasite	
			15 X 15	3 C			1		1		2		1 large grain of brass removed	
			25 X 25	5 C	1						1			
			50 X 50	10 C			2				2			
			75 X 150	22 C	1						1			
											7	30.6	83	
273-03	N		NO VISIBLE GOLD											
273-04	N		175 X 225	38 C	1						1		~100 grains of native copper	
											1	8.0	1425	
													((250u)	
273-05	Y		25 X 50	8 C	1						1		7% pyrite	
			50 X 50	10 C	2						2		~20 grains of native copper	
			75 X 100	18 C	1						1		((250u)	
			100 X 100	20 C	1						1			
			100 X 125	22 C	1						1			
											6	26.5	192	
273-06	Y		50 X 75	13 C			1				1		1% pyrite; 20% siderite	
			125 X 200	31 C	1						1		~10 grains of native copper	
											2	11.3	585	
													(25 to 250u)	
274-01	Y		15 X 25	4 C			1	1	1		3		20% pyrite; TR. arspy.; ~100 grains	
			25 X 25	5 C	2		2				4		of arspy.; 1% siderite; (0.1% L/G	
			25 X 50	8 C	2						2		~500 grains of native copper	
			50 X 50	10 C	1						1		((250u)	

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS	SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS)		NUMBER OF GRAINS								NON MAG GMS	CALC PPB	V.G. ASSAY	REMARKS	
					RESHAPED		MODIFIED		PRISTINE		TOTAL						
					T	P	T	P	T	P							
RR-96																	
			50 X	75	13 C	2						2					~100 grains of native copper
			50 X	100	15 C	1						1					(250 to 1000u)
			75 X	75	15 C	1						1					~100 grains of galena (=600u)
			75 X	10	9 C	1						1					
			100 X	125	22 C	1						1					
												16	44.9	106			
274-02	Y		25 X	25	5 C	2						2					15% pyrite; 2% siderite
			25 X	50	8 C			1				1					~300 grains of native copper
			25 X	75	10 C			1				1					((250u)
			50 X	50	10 C			1				1					~50 grains of native copper
			75 X	100	18 C	1						1					(250 to 1000u)
			100 X	150	25 C	1						1					
			150 X	175	31 C		1					1					
			175 X	175	34 C	1						1					
												9	45.2	407			
274-03	Y		15 X	25	4 C	1						1					25% pyrite
			25 X	25	5 C	1						1					~100 grains of native copper
			25 X	50	8 C		1					1					((250u)
			50 X	75	13 C	1						1					~50 grains of native copper
			50 X	125	18 C	1						1					(250 to 2500u)
			100 X	150	25 C	1						1					
			150 X	325	44 C	1						1					
												7	48.6	475			
275-01	N		50 X	50	10 C	1						1					~100 grains of native copper
			50 X	75	13 C	1						1					((250u)
			75 X	75	15 C	1						1					
			100 X	175	27 C	1						1					
												4	25.5	197			
276-01	Y		15 X	25	4 C	1						1					20% pyrite
			25 X	25	5 C	1						1					
			25 X	50	8 C	2	1			1		4					
			50 X	50	10 C					1		1					
			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					

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS				NUMBER OF GRAINS						NON MAG GMS	CALC ASSAY PPB	V.G. REMARKS
SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS)		RESHAPED		MODIFIED		PRISTINE TOTAL				
		DIAMETER	THICKNESS	T	P	T	P	T	P			
RR-96										11	51.3	108
276-02	Y	25 X 75	10 C	1						1		20% pyrite
		50 X 75	13 C	3						3		~25 grains of native copper
		50 X 125	18 C	1						1		(250 to 2000u)
		75 X 75	15 C	1						1		
		75 X 150	22 C	1						1		
										7	55.4	92
276-03	Y	15 X 15	3 C	1						1		25% pyrite; TR. arspy. (~200 grains
		15 X 75	9 C	1						1		of arspy. (=100u))
		25 X 25	5 C	2				1		3		~10 grains of native copper
		25 X 50	8 C	3						3		(250 to 1000u)
		25 X 100	13 C	1						1		
		50 X 75	13 C	1	1					2		
		50 X 100	15 C	1	1					2		
		75 X 150	22 C		1					1		
		75 X 250	31 C	1						1		
		100 X 100	20 C		1					1		
		200 X 225	40 C	1						1		
										17	60.9	432
276-04	Y	15 X 50	7 C	2						2		20% pyrite; TR. arspy. (~500 grains
		25 X 25	5 C	1	1	1				3		of arspy. (=100u))
		25 X 50	8 C	1		2				3		~10 grains of native copper
		25 X 75	10 C	2		1	3			6		(250 to 1500u)
		50 X 50	10 C	1			2			3		
		50 X 75	13 C	3			1			4		
		50 X 100	15 C	1			1			2		
		75 X 75	15 C	1						1		
		75 X 100	18 C				1			1		
		75 X 125	20 C				1			1		
		125 X 225	34 C		1					1		
										27	59.5	266
276-05	Y	25 X 25	5 C	2	1	1				4		25% pyrite; TR. arspy. (~200 grains
		25 X 50	8 C	5						5		of arspy. (=100u))
		50 X 50	10 C	1	1					2		
		50 X 75	13 C	3						3		
										14	81.9	25

GOLD CLASSIFICATION

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VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS	SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS)		NUMBER OF GRAINS								NON MAG GMS	CALC ASSAY PPB	V.G. REMARKS
			DIAMETER	THICKNESS	RESHAPED		MODIFIED		PRISTINE		TOTAL				
					T	P	T	P	T	P					
RR-96			100 X	125	22 C	1						1			
												5	41.2	133	
277-04	Y		25 X	50	8 C	3						3			20% pyrite; 2% siderite
			50 X	75	13 C		1					1			
			50 X	150	20 C	1						1			
			75 X	100	18 C		1					1			
			75 X	150	22 C		1					1			
												7	49.0	107	
277-05	Y		15 X	25	4 C	1						1			10% pyrite; TR. arspy. (~100 grains of arspy. ((400u))
			25 X	50	8 C	1	1					2			
			25 X	75	10 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			
			100 X	200	29 C				1			1			
												10	45.6	159	
277-06	Y		15 X	25	4 C			1				1			3% pyrite
			25 X	50	8 C	2						2			
			25 X	100	13 C	1						1			
			50 X	50	10 C	1						1			
			50 X	75	13 C	1						1			
			50 X	100	15 C	1						1			
			100 X	100	20 C		1					1			
												8	40.5	80	
278-01	Y		15 X	50	7 C			1				1			8% pyrite; TR. arspy. (~200 grains of arspy. ((=300u))
			25 X	25	5 C			1				1			~100 grains of galena ((=100u))
			25 X	75	10 C	1						1			
			25 X	175	20 C			1				1			
			50 X	50	10 C		1					1			
			50 X	75	13 C			1				1			
			50 X	100	15 C			1				1			
			50 X	125	50 M			1				1			
			75 X	75	50 M			1				1			
			75 X	125	20 C		1		1			2			
			75 X	150	22 C			1				1			
												12	76.7	171	

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS		MEASUREMENT (MICRONS)		NUMBER OF GRAINS						NON	CALC	V.G.	REMARKS	
SAMPLE #	PANNED Y/N	DIAMETER	THICKNESS	RESHAPED		MODIFIED		PRISTINE		TOTAL	MAG GMS	ASSAY PPB		
				T	P	T	P	T	P					
RR-96														
278-02	Y	25 X 25	5 C			1				1			4% pyrite; TR. arspy. (~100 grains of arspy. (=300u)) ~100 grains of galena (=100u) One grain of native silver 100X150 (reshaped)	
		25 X 50	8 C		1		1			2				
		25 X 75	10 C					1			1			
		25 X 100	13 C		1						1			
		75 X 125	20 C	1					1		2			
		75 X 175	25 C	1							1			
		100 X 175	75 M				1				1			
150 X 175	25 M					1			1					
										10	34.8	639		
279-01	N	25 X 75	10 C	1						1				
		50 X 100	15 C	1						1				
		75 X 200	27 C	1						1				
										3	39.0	119		
279-02	N	25 X 25	5 C			1				1				
		50 X 75	13 C				1			1				
		100 X 125	22 C	1						1				
		100 X 200	29 C				1			1				
										4	26.2	285		
279-03	Y	25 X 50	8 C			1				1			12% pyrite	
		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	2	1					3				
		75 X 125	20 C	1						1				
										9	34.9	128		
279-04	N	100 X 175	27 C			1				1				
										1	12.0	319		
279-05	N	100 X 100	20 C	1						1				
										1	16.5	91		
280-01	N	50 X 125	18 C	1						1				
		125 X 150	27 C	1						1				

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS				NUMBER OF GRAINS						NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS	
SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS)		RESHAPED		MODIFIED		PRISTINE					TOTAL
		DIAMETER	THICKNESS	T	P	T	P	T	P				
RR-96										2	48.4	100	
280-02	Y	15 X 15	3 C	1						1			20% pyrite
		15 X 50	7 C	1						1			
		25 X 25	5 C				1		1	2			
		25 X 50	8 C		1	1				2			
		25 X 75	10 C	2	1	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 100	18 C						1	1			
										14	71.6	45	
280-03	Y	15 X 50	7 C		1	2				3			15% pyrite; 2% siderite
		25 X 25	5 C	1		4		1		6			*200 grains of native copper
		25 X 50	8 C	2	1	4				7			((=500u)
		25 X 75	10 C	1	1	2				4			One grain of native silver 75X125
		25 X 100	13 C	1						1			(resnaped)
		50 X 50	10 C			2				2			
		50 X 75	13 C		1					1			
		50 X 125	18 C	1						1			
										25	73.5	52	
280-04	Y	15 X 15	3 C			2				2			15% pyrite; 5% siderite
		25 X 25	5 C	2		10				12			*100 grains of native copper
		25 X 50	8 C	3		9				12			((=500u)
		25 X 75	10 C			2				2			*1% of all pyrite grains are
		50 X 50	10 C	6		3		1		10			chalcocite coated.
		50 X 75	13 C	4		2				6			
		50 X 75	50 M			1				1			
		50 X 100	15 C	1						1			
		50 X 125	18 C	1						1			
		75 X 75	15 C	1	1					2			
		75 X 100	18 C	1						1			
										50	107.6	104	
281-01	Y	15 X 15	3 C	2						2			15% pyrite
		25 X 25	5 C	2		11				13			
		5 X 50	6 C	6		3		1		10			
		25 X 75	10 C	1		1				2			
		25 X 100	13 C			1				1			
		50 X 50	10 C	5		6				11			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS	SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS)		NUMBER OF GRAINS						NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS	
			DIAMETER	THICKNESS	RESHAPED		MODIFIED		PRISTINE					TOTAL
					T	P	T	P	T	P				
RR-96			50 X 75	13 C	3		2	1			6			
			50 X 125	50 M	1						1			
			100 X 100	50 M			1				1			
											47	59.1	209	
281-02	Y		15 X 15	3 C	1		3				4			8% pyrite
			25 X 25	5 C	1		3				4			
			25 X 50	8 C	2						2			
			50 X 50	10 C			1				1			
			50 X 150	20 C	1						1			
			75 X 100	18 C	1						1			
			75 X 125	20 C					1		1			
											14	95.4	47	
281-03	Y		15 X 15	3 C			2				2			20% pyrite
			15 X 25	4 C			1				1			
			25 X 25	5 C		1					1			
			25 X 50	8 C	1	3	3				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				2			
			50 X 125	18 C	1						1			
			75 X 75	15 C			1				1			
			100 X 175	27 C	1						1			
											21	75.9	112	
281-04	Y		10 X 10	2 C			1				1			70% pyrite
			15 X 15	3 C	2		4				6			
			25 X 25	5 C	1		11				12			
			25 X 50	8 C	4		18				22			
			25 X 75	10 C	4		1	1			6			
			25 X 100	13 C	1						1			
			50 X 50	10 C	5		3		1		9			
			50 X 75	13 C	4		1	1	1		7			
			50 X 100	15 C			1				1			
			50 X 125	18 C	1						1			
			75 X 75	15 C	1		2				3			
			75 X 100	18 C	1						1			
			100 X 100	20 C	1						1			
			100 X 125	22 C	1						1			
			175 X 325	46 C	1						1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS		MEASUREMENT (MICRONS)		NUMBER OF GRAINS						NON	CALC	V.G.	REMARKS
SAMPLE #	PANNED Y/N	DIAMETER	THICKNESS	RESHAPED		MODIFIED		PRISTINE		TOTAL	MAG GMS	ASSAY PPB	
				T	P	T	P	T	P				
RR-96													
										73	103.3	367	
282-01	Y	15 X 25	4 C	1						1			30% pyrite
		15 X 150	17 C			1				1			
		25 X 25	5 C		1	4				5			
		25 X 50	8 C			4				4			
		50 X 50	10 C	1						1			
										12	36.9	41	
282-02	Y	25 X 25	5 C	1						1			70% pyrite
		25 X 50	8 C	1		3				4			
		25 X 75	10 C	1		1	1			3			
		50 X 75	13 C	1						1			
		50 X 125	18 C			1	2			3			
										12	63.4	68	
282-03	Y	15 X 15	3 C			1				1			70% pyrite
		25 X 25	5 C	5		4				9			
		25 X 50	8 C	3		2				5			
		25 X 75	10 C	1						1			
		25 X 25	5 C			1				1			
		50 X 50	10 C	1						1			
		50 X 75	13 C	1						1			
		75 X 100	18 C		1					1			
		100 X 100	20 C	1						1			
										21	38.3	102	
283-01	Y	15 X 25	4 C	1		1				2			70% pyrite
		25 X 25	5 C	6		2				8			
		25 X 50	8 C	4		8		1		13			
		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			
		75 X 125	20 C					1		1			
		75 X 150	22 C	1						1			
										31	99.1	79	
283-02	Y	15 X 15	3 C			4	1			5			90% pyrite
		25 X 25	5 C	7		13				20			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS	SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS)		NUMBER OF GRAINS						NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS	
			DIAMETER	THICKNESS	RESHAPED		MODIFIED		PRISTINE					TOTAL
					T	P	T	P	T	P				
	RR-96		25 X 50	8 C	10		9		1		20			
			25 X 75	10 C			2				2			
			50 X 50	10 C	5		6				11			
			50 X 75	13 C	2		1				3			
			50 X 100	15 C	1		3	1			5			
			50 X 125	18 C	1		1				2			
			75 X 75	15 C					1		1			
			75 X 100	18 C	3						3			
			125 X 250	36 C			1				1			
			175 X 250	100 M			1				1			
											74	108.6	534	
	283-03	Y	15 X 15	3 C				5			5			90% pyrite
			15 X 25	4 C				2		1	3			The 1250 X 2250 X 875 was
			15 X 50	7 C				1			1			encapsulated. Calculated ppb
			25 X 25	5 C	1		3	3			7			without this nugget is 138.
			25 X 50	8 C		1	5	4	1	1	12			This large grain has inclusions of
			25 X 75	10 C	1	1	1	5			8			chalcopyrite, sphalerite, and
			50 X 50	10 C			1	1			2			chalcocite (confirmed by EDS).
			50 X 75	13 C	1	1	1	2			5			
			50 X 200	25 C				1			1			
			75 X 100	18 C			1	1			2			
			75 X 150	22 C				1			1			
			100 X 125	22 C				1			1			
			1250 X 2250	875 M				1			1			
											49	102.9	195451	
	283-04	Y	10 X 10	2 C			1				1			70% pyrite
			15 X 15	3 C	2		4				6			
			25 X 25	5 C	1		11				12			
			25 X 50	8 C	4		18				22			
			25 X 75	10 C	4		1	1			6			
			25 X 100	13 C	1						1			
			50 X 50	10 C	5		3		1		9			
			50 X 75	13 C	1		1	1	1		4			
			50 X 100	15 C			1				1			
			50 X 125	18 C	1						1			
			75 X 75	15 C	1		2				3			
			75 X 100	18 C	1						1			
			100 X 100	20 C	1						1			
			100 X 125	22 C	1						1			
			175 X 325	46 C	1						1			

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NUINSCO: DOUG HUME -- RR-96

07/12/96

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

NUINSCO\RR961JUL.WR2

TOTAL # OF PANNINGS 1

NUMBER OF GRAINS

SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS)		NUMBER OF GRAINS						NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS	
		DIAMETER	THICKNESS	RESHAPED		MODIFIED		PRISTINE					TOTAL
				T	P	T	P	T	P				
RR-96													
283-4	Y	25 X	25	5 C	1	1	8	2	2	14			90% pyrite
		25 X	50	8 C	3		6		3	12			
		25 X	75	10 C	1	1	3	1		6			
		25 X	100	13 C		1		1		2			
		50 X	50	10 C	2		1			3			
		50 X	75	13 C	3		2	1	1	7			
		50 X	100	15 C	1					1			
		50 X	150	20 C					1	1			
		75 X	75	15 C					1	1			
		75 X	125	20 C			1			1			
										48	96.7	111	

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS		MEASUREMENT (MICRONS)		NUMBER OF GRAINS						NON	CALC	V.G.	REMARKS
SAMPLE #	PANNED Y/N	DIAMETER	THICKNESS	RESHAPED		MODIFIED		PRISTINE		TOTAL	MAG	ASSAY	
				T	P	T	P	T	P	GMS	PPB		
RR-96										70	96.7	380	
284-01	Y	25 X 50	8 C	2	1					3			5% pyrite
		25 X 100	13 C			1				1			1 grain of native silver 50X175
		50 X 75	13 C	1						1			(reshaped)
		50 X 100	15 C			2				2			
										7	20.2	112	
285-01	Y	15 X 15	3 C	2		1				3			3% pyrite; TR. arspy. (~100 grains
		15 X 25	4 C	3		2		1		6			of arspy. (=100u))
		15 X 50	7 C	1		1				2			2 grains of native silver 50X100,
		25 X 25	5 C	5		2				7			75X100 (reshaped)
		25 X 50	8 C	2				1		3			
		25 X 75	10 C			2		1		3			
		25 X 125	15 C			1				1			
		50 X 50	10 C	2		1				3			
		50 X 75	13 C	2						2			
		50 X 100	15 C	1						1			
		50 X 125	18 C	1		1				2			
		100 X 100	20 C					1		1			
		125 X 150	27 C			1				1			
										35	40.7	274	
285-02	Y	15 X 25	4 C			2				2			3% pyrite; TR. arspy. (~200 grains
		25 X 25	5 C			1				1			of arspy. (=500u))
		25 X 50	8 C	3		5		1		9			A pristine gold grain is attached
		25 X 75	10 C			2		1		3			to pyrite (25X75; mounted)
		50 X 50	10 C	4						4			50 grains of cobaltite (=200u)
		50 X 75	13 C	1						1			(confirmed by EDS)
		75 X 75	15 C					1		1			
		75 X 100	18 C	2						2			
		125 X 175	29 C	1						1			
										24	60.7	166	
285-03	Y	25 X 50	8 C		1			1		2			10% pyrite
		25 X 75	10 C	1						1			A pristine gold grain is attached
		25 X 125	15 C						1	1			to pyrite (25X125; mounted)
		50 X 75	13 C					1		1			
		75 X 100	18 C	1			1			2			
		75 X 125	20 C	1		1				2			
		100 X 175	27 C					1		1			
		100 X 200	29 C		1					1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS	SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS)		NUMBER OF GRAINS						NON MAG GMS	CALC ASSAY PPB	V.G. REMARKS		
			DIAMETER	THICKNESS	RESHAPED		MODIFIED		PRISTINE TOTAL						
					T	P	T	P	T	P					
RR-96			125 X	175		29 C		1				1			
												12	59.3	339	
285-04	Y		10 X	10		2 C			1			1			5% pyrite
			15 X	15		3 C			1			1			
			25 X	25		5 C	3					3			
			25 X	50		8 C	4		3			7			
			50 X	50		10 C			2			2			
												14	39.9	26	
285-05	Y		25 X	25		5 C			1			1			5% pyrite
			25 X	50		8 C	2		2	1		5			
			50 X	50		10 C	2					2			
			50 X	75		13 C	2					2			
			50 X	100		15 C	1					1			
			75 X	100		18 C	1					1			
			75 X	125		20 C	1					1			
												13	49.2	96	
286-01	Y		25 X	25		5 C			1			1			5% pyrite
			25 X	50		8 C	1		2		1	4			~1000 grains of cobaltite (<=100u)
			50 X	75		13 C					1	1			
			75 X	75		15 C	1					1			
												7	18.9	72	
286-02	Y		15 X	25		4 C				1		1			5% pyrite
			15 X	75		9 C	1					1			~100 grains of cobaltite (<=100u)
			25 X	25		5 C				1		1			2 grains of native silver (25X50
			25 X	50		8 C			1			1			modified; 100X150 reshaped)
			25 X	75		10 C	1		1		1	3			
			50 X	125		18 C			1			1			
												8	24.7	75	
286-03	Y		15 X	25		4 C	1					1			20% pyrite
			25 X	25		5 C	1					1			~200 grains of cobaltite (<=300u)
			25 X	75		10 C			1			1			
			50 X	75		13 C	1		1			2			
			100 X	125		22 C	1					1			
			125 X	175		29 C			1			1			
			125 X	250		75 M						1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS	SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS)		NUMBER OF GRAINS						NON MAG GMS	CALC ASSAY PPB	V.G. REMARKS	
			DIAMETER	THICKNESS	RESHAPED		MODIFIED		PRISTINE					TOTAL
					T	P	T	P	T	P				
RR-96			200 X	450	100 M	1					1			
											9	38.5	2780	
286-04	N		50 X	75	13 C			1			1			
											1	17.1	22	
287-01	N		50 X	100	15 C	1					1			
			75 X	75	15 C	1					1			
											2	20.7	62	
287-02	N		NO VISIBLE GOLD											
287-03	Y		25 X	50	8 C	1					1			20% pyrite; TR. arspy. (~10 grains of arspy. (=500u))
			50 X	75	13 C	1					1			
											2	43.7	10	
288-01	N		25 X	50	8 C	1		1			2			
			50 X	100	15 C			1			1			
											3	39.3	20	
288-02	N		25 X	50	8 C			1			1			
											1	23.6	3	
288-03	Y		15 X	25	4 C	1					1			12% pyrite; TR. arspy. (~10 grains of arspy. (=500u))
			25 X	25	5 C	2		1		1	4			
			25 X	100	13 C	1					1			
			50 X	100	15 C	1					1			
			75 X	75	15 C	1					1			
			75 X	100	18 C				1		1			
											9	33.3	83	
289-01	N		NO VISIBLE GOLD											
289-02	Y		75 X	75	15 C	1					1			35% pyrite; TR. arspy. (~20 grains of arspy. (=500u))
			75 X	100	18 C	1					1			
			175 X	175	34 C				1		1			
											3	31.4	299	

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS	SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS)		NUMBER OF GRAINS						NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS	
			DIAMETER	THICKNESS	RESHAPED		MODIFIED		PRISTINE					TOTAL
					T	P	T	P	T	P				
RR-96														
	290-01	N	25 X	50	8 C	2					2			
											2	22.9	7	
	291-01	N	50 X	50	10 C	1					1			
											1	34.7	6	
	292-01	N	25 X	25	5 C	2					2			
			50 X	50	10 C	1					1			
			50 X	75	13 C	2					2			
											5	28.2	35	
	292-02	N	NO VISIBLE GOLD											
	292-03	N	75 X	125	20 C	1					1			
											1	29.3	51	
	293-01	Y	25 X	50	8 C		1				1			10% pyrite; TR. arspy. (~100 grains of arspy. (=200u))
			50 X	50	10 C	1					1			
			50 X	75	13 C	1					1			
			50 X	100	15 C	1					1			
											4	14.1	91	
	294-01	N	50 X	75	13 C	1		1			2			
			50 X	125	18 C	1					1			
											3	34.7	51	
	294-02	N	25 X	50	8 C			1			1			
			75 X	100	18 C	1					1			
											2	30.3	36	
	294-03	N	NO VISIBLE GOLD											
	294-04	Y	25 X	50	8 C		1				1			10% pyrite; TR. arspy. (~100 grains of arspy. (=500u))
			50 X	75	13 C		1				1			~1000 grains of cobaltite (=100u)
											2	34.0	13	
	294A-01	N	50 X	75	13 C	1					1			~20% staurolite (confirmed by EDS)

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS	SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS)		NUMBER OF GRAINS								NON MAG GMS	CALC ASSAY PPB	V.G. REMARKS
			DIAMETER	THICKNESS	RESHAPED		MODIFIED		PRISTINE		TOTAL				
					T	P	T	P	T	P					
RR-96															
298-03	Y		25 X 25	5 C		1					1				5% pyrite; 5% siderite
			25 X 50	8 C		1					1				*1000 grains of native copper
			25 X 75	10 C	1						1				((=250u)
			50 X 75	13 C	1						1				*20 grains of native copper
			50 X 175	22 C	1						1				(250 to 2000u)
			100 X 150	25 C	1						1				
			150 X 175	31 C	1						1				
											7	25.2	473		
299-01	Y		25 X 50	8 C			1	1			2				10% pyrite; 10% siderite
			25 X 75	10 C			1				1				*500 grains of native copper
			125 X 150	27 C			1				1				((=250u)
															*50 grains of native copper
											4	37.1	113		
299-02	N		25 X 50	8 C			1				1				*1000 grains of native copper
			75 X 150	22 C			1				1				((=250u)
			100 X 100	20 C			1				1				*50 grains of native copper
															(250 to 2000u)
											3	56.1	66		
299-03	Y		25 X 50	8 C			2				2				50% pyrite; 10% siderite
			25 X 75	10 C					1		1				*1000 grains of native copper
			50 X 75	13 C	1						1				((=250u)
			50 X 100	15 C	1						1				*100 grains of native copper
			50 X 150	20 C			1	1			2				(250 to 2000u)
			75 X 175	25 C					1		1				
			100 X 300	50 M			1				1				
											9	69.9	318		
299-04	Y		15 X 25	4 C			1				1				60% pyrite; 5% siderite
			15 X 50	7 C			3	1			4				*200 grains of native copper
			25 X 25	5 C			1	1			2				((=250u)
			25 X 50	8 C		1	1				2				*20 grains of native copper
			25 X 75	10 C			1				1				(250 to 2000u)
			25 X 100	13 C			1				1				
			25 X 150	18 C		1					1				
			50 X 50	10 C		1	5				6				
			50 X 75	13 C		1	1		1		3				
			50 X 100	15 C			1				1				
			50 X 125	18 C			2	1			3				
			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)		NUMBER OF GRAINS						NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS	
			DIAMETER	THICKNESS	RESHAPED		MODIFIED		PRISTINE					TOTAL
					T	P	T	P	T	P				
	RR-96		125 X 175	29 C	1						1			
			125 X 200	31 C			1				1			
											28	67.0	308	
	300-01	N	25 X 50	8 C	1						1			
			50 X 75	13 C	1						1			
			100 X 125	22 C			1				1			
											3	69.8	37	
	301-01	Y	25 X 25	5 C			2				2			40% pyrite; 10% siderite
			25 X 50	8 C	1		1				2			~200 grains of native copper
			25 X 75	10 C			1				1			((=250u)
			25 X 100	13 C	3						3			~200 grains of native copper
			50 X 75	13 C	1		1	1			3			(250 to 2000u)
			75 X 100	18 C	1		1				2			
			75 X 125	20 C			1				1			
			150 X 175	31 C		1					1			
			175 X 325	46 C			1				1			
											16	48.5	703	
	301-02	N	50 X 100	15 C	1						1			
											1	95.2	7	
	301-03	Y	25 X 50	8 C			2				2			30% pyrite; 4% siderite
			50 X 150	50 M				1			1			~200 grains of native copper
			75 X 75	15 C					1		1			((=250u)
			100 X 100	20 C					1		1			~10 grains of native copper
											5	46.7	130	1 copper nugget 1375X2275X1150 R.
	301-04	N	25 X 50	8 C			1				1			~200 grains of native copper
			50 X 50	25 M			1				1			((=250u)
			75 X 150	22 C	1						1			
											3	28.8	93	
	301-05	Y	25 X 25	5 C		2	2				4			15% pyrite; 10% siderite; Tr. arspy.
			25 X 50	8 C			1				1			(*40 grains of arspy. ((=1000u))
			25 X 75	10 C	1		1				2			(0.1% L/G
			50 X 50	10 C	1						1			1% of pyrite is chalcocite coated
			75 X 250	31 C			1				1			1 grain of native silver (100X125R)

GOLD CLASSIFICATION

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VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS	SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS)		NUMBER OF GRAINS						NON MAG GMS	CALC ASSAY PPB	V.G. REMARKS	
					RESHAPED		MODIFIED		PRISTINE					TOTAL
					T	P	T	P	T	P				
RR-96			175 X	225	25 M	1					1			~200 grains of native copper (=250u)
											10	45.0	322	
304-01	Y		25 X	25	5 C			1			1			3% pyrite
			25 X	50	8 C			1		1	2			~20 grains of native copper
			50 X	50	10 C	1					1			(=250u)
											4	22.4	17	
304-02	N		25 X	25	5 C	1					1			~10 grains of native copper (=250u)
											1	14.5	2	
305-01	N		25 X	25	5 C			2			2			
			100 X	100	20 C	1					1			
											3	14.2	109	
305-02	N		25 X	50	8 C	1					1			
											1	5.0	16	
305-03	N		NO VISIBLE GOLD											
305-04	N		NO VISIBLE GOLD											
305-05	N		25 X	25	5 C	1		1			2			
			25 X	50	8 C	1					1			
											3	51.0	3	
305-06	N		15 X	25	4 C			1			1			
			25 X	50	8 C			1			1			
											2	33.7	3	
305-07	N		25 X	25	5 C	1					1			
											1	48.0	1	
305-08	N		NO VISIBLE GOLD											
305-09	N		25 X	25	5 C	1					1			~20 grains of native copper (=250u)

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS	SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS)		NUMBER OF GRAINS								NON MAG GMS	CALC ASSAY PPB	V.G. REMARKS
			DIAMETER	THICKNESS	RESHAPED		MODIFIED		PRISTINE		TOTAL				
					T	P	T	P	T	P					
	RR-96											1	31.1	1	
	306-01	Y	15 X	25	4 C			1				1			Tr. pyrite (~100 grains of pyrite)
			25 X	25	5 C	1			1			2			
			25 X	50	8 C			1				1			
			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	75	15 C	1						1			
			75 X	125	20 C	1						1			
			75 X	175	25 C	1						1			
												12	32.9	206	
	306-02	Y	15 X	25	4 C					1		1			No sulphides.
			25 X	25	5 C	1		2		1		4			~50 grains of native copper
			25 X	50	8 C			1			1	2			(=250u)
			25 X	100	13 C				1			1			
			50 X	100	15 C		1					1			
												9	50.6	25	
	306-03	N	15 X	15	3 C			1				1			
			25 X	25	5 C	2						2			
												3	19.3	3	
	307-01A	N	25 X	50	8 C	1						1			
												1	17.1	5	
	307-01B	N	25 X	25	5 C			1				1			
			25 X	50	8 C	1						1			
												2	12.9	8	
	307A-01	Y	15 X	15	3 C			1		1		2			4% pyrite
			15 X	25	4 C			1				1			~10 grains of molydenite
			25 X	25	5 C			1				1			
			25 X	50	8 C			1				1			
												5	59.4	2	
	308-01	N	15 X	15	3 C	1						1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS		MEASUREMENT (MICRONS)		NUMBER OF GRAINS						NON	CALC	V.G.	REMARKS
SAMPLE #	PANNED	DIAMETER	THICKNESS	RESHAPED		MODIFIED		PRISTINE		TOTAL	MAG	ASSAY	
	Y/N			T	P	T	P	T	P	GMS	PPB		
RR-96		25 X 25	5 C			2				2			
		25 X 50	8 C	1						1			
										4	39.0	3	
310-01	Y	25 X 25	5 C	1						1			10% pyrite
		25 X 50	8 C	3		3		2		8			
		25 X 75	10 C			1				1			
		50 X 50	10 C	2		1				3			
		50 X 75	13 C	1						1			
		75 X 125	20 C	1						1			
										15	30.2	110	
311-01	N	15 X 15	3 C	2						2			
		15 X 50	7 C			1				1			
		25 X 50	8 C			1				1			
										4	42.8	3	
311-02	Y	25 X 25	5 C	1		3				4			3% pyrite
		50 X 50	10 C	1		1				2			
		50 X 75	13 C	1						1			
										7	54.6	16	
311-03	N	25 X 25	5 C			1				1			
		25 X 50	8 C	1						1			
										2	39.5	3	
312A-01	Y	15 X 15	3 C			1				1			3% pyrite
		25 X 25	5 C	2		1				3			
		25 X 50	8 C			1				1			
		50 X 75	13 C	1						1			
										6	19.3	28	
312A-02	N	50 X 50	10 C	1						1			
		50 X 75	13 C	1						1			
										2	18.9	30	
313-01	N	NO VISIBLE GOLD											

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS	SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS)		NUMBER OF GRAINS										NON MAG GMS	CALC ASSAY PPB	V.G. REMARKS
					RESHAPED		MODIFIED		PRISTINE		TOTAL						
					T	P	T	P	T	P	T	P					
RR-96																	
313-02	N		15 X 25	4 C			1					1					~50 grains of native copper ((=250u)
			50 X 75	13 C	1							1					
												2	27.8	14			
313-03	N		NO VISIBLE GOLD														~20 grains of native copper ((=250u)
313-04	N		NO VISIBLE GOLD														~15 grains of native copper ((=250u)
315-01	N		50 X 75	13 C	1							1					
			50 X 100	15 C	1							1					
												2	78.4	13			
315-02	Y		25 X 25	5 C	1							1					4% pyrite; 10% siderite
			25 X 50	8 C	4							4					~80 grains of native copper ((=250u)
			50 X 75	13 C	1							1					~10 grains of native copper
			50 X 100	15 C	1							1					(250 to 1000u)
			50 X 150	20 C	1							1					
			125 X 150	27 C	1							1					
												9	52.9	126			
315-03	Y		25 X 25	5 C	1							1					0.2% pyrite; 50% siderite
			50 X 75	13 C	1							1					~25 grains of native copper ((=250u)
												2	43.6	9			
316-01	Y		15 X 50	7 C	1	1						2					1% pyrite; 10% siderite
			25 X 50	8 C	2							2					
			25 X 75	10 C	1							1					
			50 X 50	10 C	1							1					
			50 X 75	13 C	2							2					
												8	63.4	22			
316-02	N		50 X 50	10 C	1							1					~100 grains of native copper
			75 X 100	18 C	1							1					((=250u)
												2	27.4	44			
317-01	N		25 X 50	8 C	1							1					~10 grains of native copper ((=250u)
			100 X 100	20 C	1							1					
												2	66.6	24			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

TOTAL # OF PANNINGS				NUMBER OF GRAINS						NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
SAMPLE #	PANNED Y/N	MEASUREMENT (MICRONS)		RESHAPED		MODIFIED		PRISTINE TOTAL				
		DIAMETER	THICKNESS	T	P	T	P	T	P			
RR-96												
318-01	N	25 X	50	8 C	2					2		
		50 X	50	10 C	2					2		
		75 X	100	18 C	1					1		
										5	57.3	27
318-02	N	25 X	25	5 C	1					1		
		25 X	75	10 C	1					1		
		50 X	50	10 C	2					2		
										4	104.2	6
319-01	N	75 X	75	15 C	1					1		
										1	61.3	10
319-02	N	25 X	25	5 C			1			1		
		25 X	50	8 C	1					1		
										2	93.5	1
319-03	Y	25 X	50	8 C	2					2		15% pyrite; 20% siderite
		50 X	75	13 C	1					1		
		50 X	100	15 C	1					1		
		100 X	125	22 C	1					1		
										5	55.7	59
320-01	Y	15 X	25	4 C	1		1			2		1% pyrite
		25 X	25	5 C	3		1			4		
		25 X	50	8 C	4		2			6		
		25 X	75	10 C	1					1		
		50 X	50	10 C	1					1		
		50 X	75	25 M	2					2		
										16	55.5	44
320-02	Y	25 X	25	5 C	1					1		1% pyrite
		25 X	50	8 C	2					2		
		50 X	125	18 C	1					1		
		75 X	175	25 C	1					1		
										5	48.6	84

OVERBURDEN DRILLING MANAGEMENT LIMITED

LABORATORY SAMPLE LOG

SAMPLE NO.	WEIGHT (KG.WET)			WEIGHT (GRAMS DRY)				DESCRIPTION										CLASS		
	TABLE+2 SPLIT	TABLE CHIPS	TABLE FEED	M. I. CONC				CLAST				MATRIX				OR				
				TABLE CONC	M. I. LIGHTS	CONC. TOTAL	NON MAG	MAG	SIZE	%	S/U	SD	ST	CY	COLOUR					
															SD		CY			
V/S	GR	LS	QTZ	SD	CY															
RR-96																				
212-01	9.2	1.5	7.7	448.8	367.6	81.2	71.7	9.5	P	95	5	0	NA	U	+	Y	Y	GG	GG	TILL
213-01	6.7	0.8	6.0	364.8	334.3	30.5	26.4	4.1	P	95	5	0	NA	U	-	+	Y	GG	GG	TILL
214-01	7.9	1.2	6.7	513.5	420.1	93.4	82.1	11.3	P	70	28	TR	2	U	-	+	+	GG	LOC	TILL
214-02	9.5	3.0	6.5	309.0	278.3	30.7	26.2	4.5	P	95	5	0	TR	U	Y	Y	+	GG	LOC	TILL
215-01	7.2	1.5	5.8	326.5	232.1	94.4	85.8	8.6	C	80	18	0	2	U	Y	-	+	GG	OC	TILL
215-02	5.9	1.2	4.7	385.7	357.1	28.6	25.2	3.4	C	70	28	0	2	U	Y	-	+	B	OC	TILL
215-03	8.3	1.2	7.1	369.8	319.7	50.1	46.0	4.1	C	60	37	0	3	U	Y	Y	+	BN	OC	TILL
215-04	9.0	2.0	7.0	262.5	208.5	54.0	44.4	9.6	C	40	60	0	NA	U	Y	Y	+	BN	OC	TILL
216-01	4.1	1.0	3.2	284.8	245.4	39.4	36.9	2.5	C	95	5	0	NA	U	Y	Y	Y	GN	GN	TILL+BDK
217-01	9.4	2.1	7.3	642.3	489.3	153.0	140.6	12.4	C	60	40	0	NA	U	+	-	-	GY	GY	TILL
217-02	7.9	2.8	5.1	289.2	221.4	67.8	63.5	4.3	C	20	80	0	NA	U	+	-	-	GY	GY	TILL+GRAV
217-03	9.6	4.0	5.7	282.7	226.6	56.1	50.1	6.0	C	25	75	0	NA	S	C	-	N	B	-	GRAV
217-04	8.8	3.9	5.0	319.6	251.8	67.8	64.3	3.5	C	25	75	0	NA	S	C	-	N	B	-	GRAV
217-05	9.4	4.1	5.3	329.1	263.5	65.6	61.2	4.4	C	90	5	0	S	S	C	-	-	B	B	GRAV+BDK
218-01	8.9	1.1	7.8	393.1	285.5	107.6	97.7	9.9	C	60	40	0	NA	U	+	Y	Y	GB	GB	TILL
218-02	9.7	2.7	7.0	444.4	368.4	76.0	71.0	5.0	C	90	5	0	S	U	+	Y	-	GB	B	TILL
218-03	8.9	2.1	6.9	293.0	253.3	39.7	35.1	4.6	C	95	5	0	NA	U	+	Y	-	GB	B	TILL
219-01	9.0	4.5	4.5	168.4	137.5	30.9	26.6	4.3	C	98	2	0	NA	U	Y	Y	Y	GB	B	TILL
219-02	9.7	3.1	6.7	308.1	258.4	49.7	38.0	11.7	C	95	3	0	2	U	+	Y	-	GB	B	TILL
219A-01	8.4	2.6	5.8	249.2	199.0	50.2	41.5	8.7	C	95	5	0	NA	U	+	Y	Y	GB	GB	TILL
219A-02	9.0	3.6	5.4	239.9	218.8	21.1	17.4	3.7	C	95	5	0	NA	U	+	Y	-	GB	GB	TILL
219A-03	9.1	4.9	4.2	245.4	218.0	27.4	22.8	4.6	C	95	5	0	NA	U	+	Y	-	GB	GB	TILL
219A-04	9.1	3.2	5.9	131.2	87.6	43.6	39.2	4.4	C	98	2	0	NA	U	+	Y	-	GB	GB	TILL
220-01	9.7	1.2	8.5	425.5	348.2	77.3	71.4	5.9	C	98	2	0	NA	U	+	Y	-	GB	B	TILL
220-02	8.5	2.2	6.4	186.2	141.5	44.7	38.6	6.1	C	75	25	0	NA	U	+	Y	-	B	B	TILL
221-01	5.8	1.3	4.5	276.5	250.9	25.6	23.4	2.2	C	70	30	0	NA	U	Y	Y	+	GB	GB	TILL
222-01	9.3	1.6	7.7	293.7	217.0	76.7	64.2	12.5	C	60	40	0	NA	U	Y	Y	+	GB	GB	TILL
223-01	6.9	1.7	5.3	264.7	236.4	28.3	13.8	14.5	C	50	20	30	NA	U	Y	Y	+	GB	GB	TILL
223-02	8.8	2.5	6.3	320.1	219.7	100.4	85.6	14.8	C	70	30	0	NA	U	Y	Y	+	GB	GB	TILL
223-03	8.7	2.0	6.7	301.2	206.2	95.0	82.7	12.3	C	95	5	0	NA	U	Y	Y	+	GB	GB	TILL
223-04	8.5	2.0	6.5	481.4	374.6	106.8	98.6	8.2	C	100	TR	0	NA	U	Y	Y	+	GB	GB	TILL
223-05	9.7	3.3	6.5	322.1	245.2	76.9	67.3	9.6	C	98	2	0	NA	U	Y	Y	+	GB	GB	TILL
224-01	1.6	0.2	1.4	94.8	90.3	4.5	3.8	0.7	P	98	0	2	NA	U	Y	Y	+	GB	GB	TILL
225-01	9.5	1.5	8.1	387.3	307.0	80.3	65.1	15.2	P	60	40	0	NA	U	Y	Y	-	GB	GB	TILL
225-02	9.0	1.1	7.9	547.3	472.5	74.8	59.5	15.3	C	50	50	0	NA	U	+	Y	-	GB	GB	TILL
225-03	8.7	1.1	7.6	277.1	206.2	70.9	53.9	17.0	C	40	60	0	NA	U	+	Y	-	GB	GB	TILL
225-04	8.0	1.1	7.0	304.6	242.9	61.7	51.3	10.4	C	50	50	0	NA	U	+	Y	-	GB	GB	TILL
225-05	7.9	0.7	7.2	285.4	231.3	54.1	43.8	10.3	C	50	50	0	NA	U	+	Y	-	GB	GB	TILL
225-06	6.6	0.7	5.9	206.2	150.5	55.7	44.3	11.4	C	70	30	0	NA	U	+	Y	-	GY	GY	TILL
226-01	10.0	1.8	8.2	249.9	193.1	56.8	35.5	21.3	C	20	80	0	NA	U	+	Y	-	GB	GB	TILL
226-02	9.6	1.5	8.1	315.7	253.3	62.4	40.8	21.6	C	20	80	0	NA	U	+	Y	-	GB	GB	TILL
226-03	8.3	0.8	7.5	299.5	225.6	73.9	51.7	22.2	C	10	90	0	NA	U	+	Y	-	GB	GB	TILL

OVERBURDEN DRILLING MANAGEMENT LIMITED

LABORATORY SAMPLE LOG

SAMPLE NO.	WEIGHT (KG.WET)			WEIGHT (GRAMS DRY)					DESCRIPTION										CLASS		
	TABLE+2 SPLIT	TABLE CHIPS	TABLE FEED	TABLE CONC	M. I. CONC			CLAST			MATRIX										
					M.I. LIGHTS	CONC. TOTAL	NON MAG	SIZE	%	S/U	SD	ST	CY	COLOUR							
														OR							
RR-96																					
226-04	8.9	1.4	7.5	346.9	277.1	69.8	52.6	17.2	C	20	80	0	NA	U	+	Y	-	GB	GB		TILL
226-05	10.5	0.5	10.0	257.9	175.6	82.3	62.4	19.9	C	50	50	0	NA	U	Y	Y	Y	GB	GB		TILL
227-01	3.5	0.6	2.9	290.2	259.3	30.9	25.7	5.2	C	70	30	0	NA	U	+	Y	Y	GB	GB		TILL
227-02	10.8	1.2	9.7	312.1	205.8	106.3	93.1	13.2	P	65	35	0	NA	U	Y	Y	Y	GB	GB		TILL
227-03	7.6	1.0	6.6	283.1	228.6	54.5	40.8	13.7	C	50	50	0	NA	U	Y	Y	Y	GB	GB		TILL
227-04	10.4	1.3	9.1	418.3	338.4	79.9	65.0	14.9	C	40	60	0	NA	U	Y	Y	Y	GB	GB		TILL
227-05	10.8	1.4	9.5	244.9	138.2	106.7	80.3	26.4	C	40	60	0	NA	U	+	Y	Y	GB	GB		TILL
227-06	7.4	1.2	6.2	329.7	277.7	52.0	38.7	13.3	C	80	20	0	NA	U	+	Y	-	GB	GB		TILL
227-07	6.7	1.0	5.7	140.7	104.8	35.9	26.6	9.3	C	65	35	0	NA	U	+	Y	-	GB	GB		TILL
228-01	10.1	0.9	9.2	351.7	282.5	69.2	47.7	21.5	C	35	65	0	NA	U	+	-	-	GB	GB		TILL
228-02	10.2	0.7	9.5	287.7	236.0	51.7	41.6	10.1	C	20	80	0	NA	U	+	-	-	GB	GB		TILL
228-03	5.7	0.6	5.1	292.2	235.3	56.9	46.7	10.2	C	35	65	0	NA	U	+	-	-	GB	GB		TILL
228-04	6.5	0.8	5.7	257.5	213.0	44.5	34.6	9.9	C	70	30	0	NA	U	+	-	-	GY	GB		TILL
229-01	10.1	1.0	9.1	584.8	354.6	230.2	213.6	16.6	P	60	40	0	NA	U	Y	Y	Y	GY	GB		TILL
229-02	10.6	4.0	6.6	398.4	289.4	109.0	86.8	22.2	C	40	60	0	NA	U	Y	Y	Y	GB	GB		TILL
229-03	10.1	0.5	9.6	323.8	244.5	79.3	66.0	13.3	C	50	50	0	NA	U	Y	Y	Y	GB	GB		TILL
229-04	9.8	0.9	8.9	324.8	250.5	74.3	57.9	16.4	C	50	50	0	NA	U	Y	Y	Y	GY	GY		TILL
229-05	7.2	0.6	6.6	272.9	196.1	76.8	61.8	15.0	C	70	30	TR	NA	U	Y	Y	Y	GB	GB		TILL
230-01	5.5	0.9	4.6	340.3	291.2	49.1	37.3	11.8	C	40	60	0	NA	U	+	Y	Y	GB	GB		TILL
230-01A	9.1	1.3	7.8	366.6	235.7	130.9	113.0	17.9	C	40	60	0	NA	U	+	Y	Y	GB	GB		TILL
230-02A	5.7	0.3	5.4	183.0	118.1	64.9	52.2	12.7	C	40	60	0	NA	U	+	Y	Y	GB	GB		TILL
231-01	7.6	0.7	6.9	415.2	287.3	127.9	117.2	10.7	C	90	10	0	NA	U	Y	Y	Y	GB	GB		TILL
231-02	7.6	1.2	6.4	305.2	188.7	116.5	105.6	10.9	C	95	5	0	NA	U	Y	Y	Y	GB	GB		TILL
232-01	9.0	1.8	7.2	268.6	195.8	72.8	65.2	7.6	P	95	5	0	NA	U	+	Y	-	GB	GB		TILL
232-02	9.1	2.1	7.0	209.3	135.5	73.8	61.2	12.6	C	98	2	0	NA	U	Y	Y	Y	GB	GB		TILL
232-03	3.8	0.6	3.2	216.0	190.4	25.6	22.4	3.2	C	98	2	0	NA	U	Y	Y	Y	GB	GB		TILL
233-01	5.7	0.7	5.1	193.7	135.1	58.6	51.8	6.8	P	95	5	0	NA	U	Y	Y	Y	GB	GB		TILL
233-02	9.0	0.7	8.3	421.5	299.0	122.5	107.2	15.3	C	95	5	0	NA	U	Y	Y	Y	GB	GB		TILL
233-03	8.8	0.7	8.2	390.6	267.4	123.2	104.5	18.7	C	90	10	0	NA	U	Y	Y	Y	GB	GB		TILL
233-04	8.4	0.3	8.2	368.7	157.9	210.8	195.6	15.2	C	90	10	0	NA	U	Y	Y	Y	GB	GB		TILL
234-01	6.7	1.1	5.7	274.3	197.0	77.3	57.6	19.7	C	80	20	0	NA	U	Y	Y	Y	GB	GB		TILL
234-02	8.6	1.3	7.3	369.6	258.1	111.5	98.9	12.6	C	70	30	0	NA	U	Y	Y	Y	GB	GB		TILL
234-03	9.05	0.6	8.5	337.0	228.7	108.3	94.7	13.6	P	80	20	0	NA	U	Y	Y	Y	GB	GB		TILL
235-01	3.0	0.4	2.6	185.6	153.4	32.2	30.4	1.8	P	70	30	0	NA	U	+	Y	-	GB	GB		TILL
235-02	5.8	0.4	5.4	266.1	194.0	72.1	66.8	5.3	C	90	10	0	NA	U	+	Y	-	GG	GB		TILL
235-03	3.4	0.4	3.0	236.0	186.2	49.8	47.3	2.5	C	85	15	0	NA	U	Y	Y	-	GG	GB		TILL
236-01	4.8	0.2	4.6	177.6	166.9	10.7	8.4	2.3	P	5	45	50	NA	S	M,F	Y	+	B	B		SAND
236-01B	4.8	0.1	4.7	161.2	143.1	18.1	16.8	1.3	P	5	80	15	NA	S	M,F	-	+	B	B	Y	SAND
237-01	7.4	0.7	6.7	320.9	281.4	39.5	34.0	5.5	C	70	30	0	NA	U	Y	Y	Y	GG	GB		TILL
238-01	9.0	1.0	8.0	284.4	240.5	43.9	36.0	7.9	C	80	20	0	NA	U	Y	Y	Y	GB	GB		TILL
239-01	9.0	0.8	8.2	381.1	301.8	79.3	68.8	10.5	C	90	10	0	NA	U	+	Y	Y	GB	GB		TILL
239-02	9.3	0.9	8.4	369.6	287.6	82.0	71.1	10.9	C	90	10	0	NA	U	+	Y	Y	GB	GG		TILL

OVERBURDEN DRILLING MANAGEMENT LIMITED

LABORATORY SAMPLE LOG

SAMPLE NO.	WEIGHT (KG.WET)			WEIGHT (GRAMS DRY)					DESCRIPTION								CLASS			
	TABLE+2	TABLE	TABLE	M. I. CONC		NON MAG	CONC. TOTAL	CLAST			MATRIX									
	SPLIT	CHIPS	FEED	CONC	LIGHTS			SIZE	%	S/U	SD	ST	CY	COLOUR	OR					
							V/S	GR	LS	QTZ										
RR-96																				
239-03	8.5	0.2	8.3	404.2	322.2	82.0	71.1	10.9	C	95	5	0	NA	U	+	-	-	GN	GN	TILL
240-01	8.5	0.4	8.2	296.2	201.0	95.2	82.3	12.9	C	95	5	0	NA	U	+	Y	Y	GB	GB	TILL
240-02	4.0	0.5	3.5	255.1	233.0	22.1	18.7	3.4	C	90	10	0	NA	U	+	Y	-	GB	GB	TILL+BDR
241-01	8.0	1.0	7.1	260.5	195.5	65.0	54.4	10.6	C	30	70	0	NA	U	+	Y	-	B	B	TILL
241-02	8.2	0.9	7.3	382.9	306.3	76.6	63.5	13.1	C	30	70	0	NA	U	+	Y	-	GB	GB	TILL
242-01	9.6	1.2	8.4	344.6	283.4	61.2	52.5	8.7	C	20	80	0	NA	U	+	Y	-	GB	GB	TILL
243-01	1.7	0.1	1.6	161.8	134.2	27.6	24.8	2.8	C	90	10	0	NA	U	Y	Y	Y	GG	GN	TILL+BDR
243B-01	4.5	0.3	4.2	121.2	107.4	13.8	10.9	2.9	C	35	25	40	NA	U	-	Y	+	B	B	TILL
244-01	8.5	0.4	8.2	265.0	166.2	98.8	78.6	20.2	C	95	5	0	QTZ	U	+	Y	-	GY	GY	TILL
244-02	6.0	0.4	5.6	281.7	206.8	74.9	57.6	17.3	C	100	TR	0	NA	U	+	Y	-	GY	GY	TILL
244-03	8.0	0.7	7.3	236.9	156.3	80.6	65.4	15.2	C	100	TR	0	NA	U	+	Y	Y	GG	GN	TILL
246-01	6.7	0.5	6.3	390.9	339.6	51.3	43.8	7.5	C	90	10	0	NA	U	+	Y	-	GB	GB	TILL
246-02	9.4	1.0	8.4	467.0	410.9	56.1	44.7	11.4	C	90	10	0	NA	U	+	Y	-	GB	GB	TILL
246-03	2.8	0.2	2.6	266.2	256.2	10.0	8.9	1.1	C	95	5	0	QTZ	U	Y	-	-	GG	GN	TILL+BLDR
246-04	7.7	0.8	6.9	199.2	146.8	52.4	48.0	4.4	C	95	5	0	QTZ	U	Y	Y	-	GG	GN	TILL
247-01	5.5	0.5	5.1	371.4	332.3	39.1	30.8	8.3	P	80	20	0	NA	U	Y	Y	-	GB	GB	TILL
247-02	9.2	0.8	8.5	425.5	331.2	94.3	76.6	17.7	C	85	15	0	NA	U	+	Y	-	GB	GB	TILL
247-03	8.3	0.8	7.5	310.4	233.3	77.1	61.5	15.6	C	80	20	0	NA	U	+	Y	-	GB	GB	TILL
247-04	9.5	1.1	8.4	470.2	400.6	69.6	53.7	15.9	C	80	20	0	NA	U	Y	Y	Y	GG	GG	TILL
248-01	8.5	0.9	7.6	441.9	352.8	89.1	70.3	18.8	C	70	30	0	NA	U	+	Y	Y	GY	GY	TILL
248-02	8.2	0.9	7.3	547.7	453.9	93.8	74.4	19.4	C	90	10	0	NA	U	Y	Y	Y	GY	GG	TILL
248-03	2.8	0.3	2.5	195.7	166.5	29.2	26.6	2.6	C	95	5	0	NA	U	Y	+	+	GG	GG	TILL
249-01	5.9	0.6	5.3	453.6	407.4	46.2	37.7	8.5	C	75	25	0	NA	U	+	Y	Y	GY	GY	TILL
249-02	9.0	1.0	8.0	325.8	275.9	49.9	40.8	9.1	C	90	10	0	NA	U	+	Y	Y	GY	GY	TILL
250-01	8.6	0.1	8.5	347.8	273.9	73.9	62.6	11.3	C	80	20	0	NA	U	Y	+	+	GY	GY	TILL
250-02	9.5	0.3	9.2	289.5	229.0	60.5	49.3	11.2	C	90	10	0	NA	U	Y	+	+	GY	GY	TILL
250-03	8.0	0.8	7.2	325.6	256.7	68.9	56.3	12.6	C	95	5	0	NA	U	Y	Y	Y	GY	GG	TILL
251-01	3.9	0.3	3.6	272.7	244.7	28.0	23.1	4.9	C	60	40	0	NA	U	Y	Y	Y	GG	GG	TILL
251-02	8.0	0.8	7.2	404.8	335.1	69.7	57.5	12.2	C	65	35	0	NA	U	Y	+	Y	GG	GG	TILL
251-03	9.0	0.9	8.1	365.7	311.2	54.5	44.6	9.9	C	70	30	0	NA	U	Y	Y	Y	GG	GG	TILL
251-04	2.7	0.2	2.5	247.6	238.0	9.6	7.9	1.7	C	90	10	0	NA	U	Y	Y	Y	GG	GG	TILL
253-01	6.0	0.1	6.0	265.7	250.0	15.7	12.5	3.2	P	50	20	30	NA	U	-	+	+	GG	GB	CLAY TILL
254-01	7.4	0.7	6.7	337.7	293.5	44.2	37.8	6.4	C	95	5	0	NA	U	Y	+	+	GG	GN	TILL
255-01	10.4	0.9	9.5	408.3	317.1	91.2	73.5	17.7	C	85	15	0	NA	U	+	Y	Y	GG	GG	TILL
255-02	6.8	0.5	6.4	211.7	171.4	40.3	30.3	10.0	C	80	20	0	NA	U	+	Y	Y	GG	GG	TILL
255-03	5.8	0.2	5.7	494.5	388.4	106.1	96.5	9.6	C	95	5	0	NA	U	+	Y	Y	GG	GG	TILL
256-01	8.3	1.1	7.3	254.4	219.6	34.8	28.4	6.4	C	90	10	0	NA	U	Y	Y	Y	GG	GG	TILL
256-02	1.3	0.1	1.2	87.6	83.2	4.4	4.2	0.2	C	100	TR	0	TR	U	Y	Y	Y	GN	GN	TILL+BDR
257-01	9.1	0.2	8.9	229.9	163.7	66.2	52.4	13.8	C	95	5	0	NA	U	+	-	-	GB	GB	TILL
257-02	9.5	1.6	8.0	246.3	219.6	26.7	21.4	5.3	C	60	40	0	TR	U	+	-	-	GB	GB	TILL
257-03	4.7	0.2	4.5	284.3	270.8	13.5	11.7	1.8	C	100	0	0	NA	U	Y	Y	Y	GY	GY	TILL+BLD
257-04	8.5	0.4	8.2	245.2	210.2	35.0	31.0	4.0	C	100	0	0	NA	U	Y	Y	Y	GY	GY	TILL+BDR

OVERBURDEN DRILLING MANAGEMENT LIMITED

LABORATORY SAMPLE LOG

SAMPLE NO.	WEIGHT (KG. WET)			WEIGHT (GRAMS DRY)				DESCRIPTION											CLASS	
	TABLE+2 SPLIT	TABLE CHIPS	TABLE FEED	TABLE CONC	M. I. CONC			CLAST				MATRIX				OR				
					M. I. LIGHTS	CONC. TOTAL	NON MAG	SIZE	%	S/U	SD	ST	CY	COLOUR						
														SD	CY					
V/S	GR	LS	QTZ	SD	CY															
RR-96																				
269-06	10.5	4.5	6.0	317.4	254.9	62.5	54.8	7.7	C	95	5	0	NA	U	+	Y	-	GB	GB	TILL
269-07	10.2	2.5	7.7	469.4	398.1	71.3	63.2	8.1	C	90	10	0	NA	U	+	Y	-	GG	GG	TILL
269-08	9.5	3.2	6.3	316.0	278.4	37.6	33.3	4.3	C	90	10	TR	NA	U	+	Y	-	GG	B	TILL
269-09	10.5	4.2	6.3	253.8	201.8	52.0	45.7	6.3	C	90	10	0	NA	U	+	Y	-	GY	B	TILL
269-10	9.9	1.2	8.7	373.9	295.3	78.6	69.0	9.6	C	90	10	0	NA	U	+	Y	-	GG	GG	TILL
269-11	10.0	1.2	8.8	454.8	354.9	99.9	87.7	12.2	C	60	40	0	NA	U	+	Y	-	GG	GB	TILL
269-12	9.9	1.6	8.3	488.3	456.6	31.7	28.8	2.9	C	80	20	0	NA	U	+	-	-	GB	GB	TILL
271-01	9.8	2.4	7.4	450.1	388.3	61.8	49.9	11.9	C	70	30	0	NA	U	+	Y	-	GY	GY	TILL
271-02	9.5	2.2	7.3	371.8	332.0	39.8	32.2	7.6	C	95	5	TR	NA	U	+	Y	-	GN	GN	TILL
272-01	10.0	1.4	8.7	392.7	315.5	77.2	61.7	15.5	C	95	5	TR	NA	U	+	Y	-	GB	GB	TILL
272-02	10.4	1.7	8.7	343.7	291.5	52.2	42.6	9.6	C	70	30	0	NA	U	+	Y	-	B	GB	TILL
272-03	9.8	1.1	8.7	368.3	307.7	60.6	51.0	9.6	C	80	20	0	NA	U	+	Y	-	GB	B	TILL
272-04	9.9	0.6	9.3	504.6	446.8	57.8	42.7	15.1	P	60	40	0	NA	S	M,C	-	NA	GB	NA	SAND
272-05	10.8	4.1	6.7	366.8	346.6	20.2	16.7	3.5	C	85	15	0	NA	U	+	Y	-	GB	GB	TILL
272-06	10.5	2.6	7.9	358.9	337.3	21.6	17.7	3.9	P	75	25	0	NA	S	M,C	-	NA	GB	NA	SAND+GRAV
272-07	10.4	2.6	7.8	366.7	346.1	20.6	16.7	3.9	P	75	25	0	NA	U	+	Y	-	GB	GB	TILL
272-08	10.6	3.2	7.4	390.3	376.0	14.3	11.3	3.0	C	65	35	0	NA	U	+	Y	-	GY	GB	TILL
272-09	9.5	2.2	7.3	394.0	364.9	29.1	24.2	4.9	P	70	30	0	NA	U	+	Y	-	GB	GB	TILL
272-10	10.6	2.9	7.7	479.3	445.0	34.3	27.7	6.6	C	65	35	0	NA	U	+	Y	-	GB	GB	TILL
272-11	10.5	2.1	8.5	555.9	516.4	39.5	33.6	5.9	C	70	30	0	NA	U	+	Y	-	GB	GB	TILL
272-12	10.7	2.9	7.8	449.7	404.5	45.2	35.5	9.7	C	70	30	0	NA	U	+	Y	-	GG	GB	TILL
272-13	10.6	2.6	8.0	354.1	303.6	50.5	40.6	9.9	C	70	30	0	NA	U	+	Y	-	GG	GB	TILL
272-14	10.6	4.0	6.7	370.4	337.2	33.2	23.9	9.3	C	80	20	0	NA	U	+	Y	-	GG	GB	TILL
272-15	10.8	3.3	7.5	357.4	318.8	38.6	31.6	7.0	C	75	25	0	NA	U	+	Y	-	GY	GB	TILL
272-16	10.4	1.1	9.4	405.5	347.2	58.3	49.9	8.4	C	80	20	0	NA	U	+	Y	-	GY	GB	TILL
272-17	8.9	1.5	7.5	376.8	340.6	36.2	30.0	6.2	C	90	10	0	NA	U	Y	Y	Y	GG	GG	TILL
272-18	10.7	2.5	8.3	477.5	439.4	38.1	31.0	7.1	C	80	20	0	NA	U	Y	Y	Y	GY	GY	TILL
273-01	8.8	2.8	6.1	344.4	311.8	32.6	26.4	6.2	C	70	30	0	NA	U	Y	Y	Y	B	GYGN	TILL
273-02	9.8	3.0	6.9	251.7	213.0	38.7	30.6	8.1	C	70	30	0	NA	U	+	-	-	GB	GB	TILL
273-03	9.1	2.7	6.4	304.6	292.7	11.9	9.4	2.5	G	65	35	0	NA	S	M,C	-	NA	B	NA	SAND+GRAV
273-04	10.2	3.5	6.7	400.9	390.9	10.0	8.0	2.0	G	65	35	0	NA	S	M,C	-	NA	GB	NA	SAND+GRAV
273-05	9.9	2.9	7.1	426.0	394.9	31.1	26.5	4.6	C	70	30	0	NA	U	+	Y	-	GB	GB	TILL
273-06	4.3	0.6	3.7	168.2	155.3	12.9	11.3	1.6	C	90	10	0	NA	U	Y	Y	Y	GG	GG	TILL
274-01	10.2	2.7	7.5	314.2	258.9	55.3	44.9	10.4	C	95	5	0	NA	U	+	-	-	GY	GY	TILL
274-02	9.4	2.5	6.9	424.3	370.0	54.3	45.2	9.1	C	95	5	0	NA	U	+	Y	-	GY	GG	TILL
274-03	10.5	2.5	8.0	388.5	330.5	58.0	48.6	9.4	C	95	5	0	NA	U	+	Y	-	GG	GG	TILL
275-01	7.7	1.8	5.9	353.7	319.6	34.1	25.5	8.6	C	98	2	0	NA	U	Y	Y	-	GG	GB	TILL
276-01	10.8	3.0	7.8	384.4	318.4	66.0	51.3	14.7	C	80	20	0	NA	U	+	Y	-	GB	GB	TILL
276-02	10.8	4.4	6.4	340.9	267.4	73.5	55.4	18.1	C	75	25	0	NA	U	+	Y	-	GY	GG	TILL
276-03	10.2	2.0	8.2	431.8	349.7	82.1	60.9	21.2	C	65	35	0	NA	U	Y	Y	-	GY	GG	TILL
276-04	11.0	2.7	8.3	441.8	354.7	87.1	59.5	27.6	C	75	25	0	NA	U	Y	Y	Y	GB	GB	TILL
276-05	9.3	1.3	8.1	265.8	167.4	98.4	81.9	16.5	C	65	35	0	NA	U	+	Y	-	GB	GB	TILL

OVERBURDEN DRILLING MANAGEMENT LIMITED

LABORATORY SAMPLE LOG

SAMPLE NO.	WEIGHT (KG. WET)			WEIGHT (GRAMS DRY)					DESCRIPTION										CLASS	
	TABLE+2 SPLIT	TABLE CHIPS	TABLE FEED	TABLE CONC	M. I. CONC			CLAST			MATRIX				OR					
					M.I.	CONC.	NON	SIZE	X	S/U	SD	ST	CY	COLOUR						
					LIGHTS	TOTAL	MAG	V/S	GR	LS	QTZ	SD	CY							
RR-96																				
276-06	9.7	0.8	9.0	305.6	216.9	88.7	73.4	15.3	C	45	55	0	NA	U	+	Y	-	GB	GB	TILL
276-07	9.9	2.8	7.1	334.7	251.1	83.6	75.0	8.6	C	55	45	0	NA	U	+	Y	-	GB	GB	TILL
276-08	9.7	3.5	6.2	312.8	234.3	78.5	67.1	11.4	C	65	35	0	NA	U	+	Y	-	GB	GB	TILL
277-01	10.8	2.5	8.3	239.6	171.0	68.6	56.1	12.5	C	65	35	0	NA	U	Y	Y	Y	GB	GB	TILL
277-02	10.3	2.1	8.2	222.6	149.6	73.0	60.1	12.9	C	65	35	0	NA	U	+	Y	Y	GB	GB	TILL
277-03	10.7	3.1	7.6	213.4	163.3	50.1	41.2	8.9	C	70	30	0	NA	U	+	Y	Y	GB	GB	TILL
277-04	11.0	4.0	7.0	298.1	238.2	59.9	49.0	10.9	C	60	40	0	NA	U	+	Y	Y	GB	GB	TILL
277-05	10.8	4.1	6.7	256.4	200.6	55.8	45.6	10.2	C	90	10	0	NA	U	Y	Y	Y	GB	GB	TILL
277-06	9.8	2.2	7.6	360.8	312.1	48.7	40.5	8.2	C	85	15	0	NA	U	Y	Y	Y	GY	B	TILL
278-01	10.0	1.6	8.5	374.6	280.7	93.9	76.7	17.2	C	65	35	0	NA	U	Y	Y	Y	GY	GB	TILL
278-02	9.8	3.1	6.7	272.9	225.0	47.9	34.8	13.1	C	40	60	0	NA	U	+	Y	-	GY	GY	TILL
279-01	10.2	2.6	7.6	321.1	272.4	48.7	39.0	9.7	C	50	50	0	NA	U	+	Y	-	GY	GY	TILL
279-02	10.5	1.9	8.6	268.7	232.3	36.4	26.2	10.2	C	50	50	0	NA	U	+	Y	-	GY	GY	TILL
279-03	10.0	3.3	6.7	297.8	251.5	46.3	34.9	11.4	C	60	40	0	NA	S	C	-	-	B	B	SAND+GRAV
279-04	9.5	3.9	5.6	424.0	406.9	17.1	12.0	5.1	C	65	35	0	NA	S	C	-	-	B	B	SAND+GRAV
279-05	9.7	2.8	6.9	224.1	191.9	32.2	16.5	15.7	C	95	5	0	NA	S	C	-	-	GG	GG	SAND+GRAV
280-01	8.9	1.5	7.4	276.6	212.6	64.0	48.4	15.6	C	50	50	0	NA	U	Y	Y	Y	GY	GB	TILL
280-02	10.0	2.2	7.8	283.2	195.5	87.7	71.6	16.1	C	50	50	0	NA	U	Y	Y	Y	GB	GB	TILL
280-03	9.3	2.4	6.9	334.4	246.1	88.3	73.5	14.8	C	70	30	0	NA	U	Y	Y	Y	GB	GB	TILL
280-04	9.9	2.8	7.1	447.8	325.4	122.4	107.6	14.8	C	75	25	0	NA	U	Y	Y	Y	GG	GB	TILL
281-01	9.4	2.0	7.4	315.5	244.2	71.3	59.1	12.2	C	75	25	0	NA	U	Y	Y	Y	GB	GB	TILL
281-02	7.9	0.1	7.8	432.2	311.3	120.9	95.4	25.5	P	85	15	0	NA	S	M	-	-	GB	GB	SAND
281-03	8.0	1.7	6.4	234.3	134.7	99.6	75.9	23.7	C	70	30	0	NA	U	Y	Y	Y	GB	GB	TILL
281-04	9.0	2.3	6.8	515.1	392.4	122.7	103.3	19.4	C	100	TR	0	NA	U	Y	Y	Y	GG	GN	TILL
282-01	6.3	2.6	3.7	252.3	210.0	42.3	36.9	5.4	C	60	40	0	NA	U	Y	Y	Y	GB	GB	TILL
282-02	10.0	3.8	6.3	293.6	217.6	76.0	63.4	12.6	C	75	25	0	NA	U	Y	Y	Y	GB	GB	TILL
282-03	4.6	0.8	3.8	140.9	94.5	46.4	38.3	8.1	C	80	20	0	NA	U	Y	Y	Y	GG	GG	TILL
283-01	10.0	3.0	7.0	367.8	259.1	108.7	99.1	9.6	C	90	10	0	NA	U	Y	Y	Y	GY	GB	TILL
283-02	10.0	4.1	5.9	392.3	273.9	118.4	108.6	9.8	C	90	10	0	NA	U	Y	Y	Y	GG	GG	TILL
283-03	9.9	3.7	6.2	341.3	230.6	110.7	102.9	7.8	C	90	10	0	NA	U	Y	Y	Y	GY	GB	TILL
283-04	9.6	1.3	8.3	313.9	207.8	106.1	96.7	9.4	C	95	5	0	NA	U	+	Y	Y	GB	B	TILL
284-01	9.7	4.5	5.2	338.8	313.5	25.3	20.2	5.1	P	30	70	0	NA	U	Y	Y	-	GB	B	TILL
285-01	8.9	1.0	7.9	268.9	218.5	50.4	40.7	9.7	C	45	55	0	NA	U	+	Y	-	GB	GB	SAND+TILL
285-02	9.8	0.8	9.0	508.0	433.3	74.7	60.7	14.0	C	65	35	0	NA	U	+	Y	-	GB	GB	SAND+GRAV
285-03	9.3	0.5	8.8	439.4	358.9	80.5	59.3	21.2	C	80	20	0	NA	U	+	Y	-	GY	GB	TILL
285-04	9.8	3.9	5.9	272.0	196.2	75.8	39.9	35.9	C	70	30	0	NA	U	Y	Y	Y	GG	GG	TILL
285-05	9.9	2.5	7.4	279.0	227.5	51.5	49.2	2.3	C	60	40	0	NA	U	Y	Y	Y	GB	GB	TILL
286-01	10.7	4.5	6.2	380.3	356.4	23.9	18.9	5.0	C	30	70	0	NA	U	Y	Y	Y	GY	GB	TILL
286-02	9.1	2.6	6.5	397.7	367.7	30.0	24.7	5.3	C	50	50	0	NA	U	Y	Y	Y	GB	GB	TILL
286-03	10.0	2.8	7.2	498.6	448.5	50.1	38.5	11.6	C	70	30	0	NA	U	Y	Y	-	GB	GB	TILL
286-04	9.3	2.9	6.4	431.1	408.2	22.9	17.1	5.8	C	95	5	0	NA	S	+	-	-	GY	GY	GRAVEL
287-01	10.2	2.1	8.1	309.5	284.0	25.5	20.7	4.8	C	90	10	0	NA	U	Y	Y	Y	GY	GY	TILL

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NUINSCO: DOUG HUME -- RR-96

07/12/96

NUINSCO\RR96\JUL.WR2

OVERBURDEN DRILLING MANAGEMENT LIMITED

TOTAL # OF SAMPLES IN THIS REPORT = 1

LABORATORY SAMPLE LOG

SAMPLE NO.	WEIGHT (KG.WET)			WEIGHT (GRAMS DRY)				DESCRIPTION										CLASS
	TABLE+2 SPLIT	TABLE CHIPS	TABLE FEED	TABLE CONC	M.I. LIGHTS	CONC. TOTAL	NON MAG	MAG	SIZE	%	S/U	SD	ST	CY	COLOUR			
																OR		
																SD CY		
RR-96 203-4	9.6	1.3	8.3	313.9	207.8	106.1	96.7	9.4	C	95	5	0	NA	U	+ Y Y 6B B	TILL		

OVERBURDEN DRILLING MANAGEMENT LIMITED

LABORATORY SAMPLE LOG

SAMPLE NO.	WEIGHT (KG. WET)			WEIGHT (GRAMS DRY)					DESCRIPTION										CLASS	
	TABLE+2 SPLIT	TABLE CHIPS	TABLE FEED	TABLE CONC	M. I. CONC			CLAST			MATRIX				OR					
					M.I. LIGHTS	CONC. TOTAL	NON MAG	SIZE	%	S/U	SD	ST	CY	COLOUR						
														SD		CY				
									V/S	GR	LS	QTZ								
RR-96																				
304-01	7.5	1.1	6.5	313.3	283.6	29.7	22.4	7.3	C	40	60	0	NA	U	+	Y	-	GG	GY	TILL
304-02	4.0	0.5	3.5	186.1	168.4	17.7	14.5	3.2	C	20	80	0	NA	U	+	Y	-	GG	GG	TILL
305-01	5.1	0.6	4.5	293.0	275.2	17.8	14.2	3.6	C	10	90	0	NA	U	Y	Y	Y	GY	GB	TILL
305-02	5.0	0.6	4.4	226.2	218.8	7.4	5.0	2.4	C	30	70	0	NA	U	+	Y	-	GB	GB	TILL
305-03	10.1	0.9	9.2	416.6	377.3	39.3	30.4	8.9	C	30	70	0	NA	U	+	Y	-	B	B	TILL
305-04	9.5	0.6	8.9	419.2	357.5	61.7	46.7	15.0	C	15	85	0	NA	U	+	Y	-	B	B	TILL
305-05	10.1	0.7	9.5	395.0	330.1	64.9	51.0	13.9	C	20	80	0	NA	U	+	-	-	B	B	TILL
305-06	9.9	0.9	9.0	321.0	275.7	45.3	33.7	11.6	C	20	80	0	NA	S	M,C	-	N	B	NA	SAND+GRAV
305-07	9.8	0.9	9.0	397.0	336.4	60.6	48.0	12.6	C	15	85	0	NA	S	M,C	-	N	B	NA	SAND+GRAV
305-08	9.6	0.6	9.0	411.0	361.4	49.6	39.5	10.1	C	15	85	0	NA	U	+	Y	-	GB	GB	TILL
305-09	6.7	0.5	6.2	446.6	405.1	41.5	31.1	10.4	C	60	40	0	NA	U	Y	Y	-	GG	GN	TILL
306-01	6.6	0.4	6.3	343.0	303.8	39.2	32.9	6.3	C	50	50	0	NA	U	Y	Y	Y	GG	GG	TILL
306-02	9.3	0.5	8.8	334.5	275.6	58.9	50.6	8.3	C	40	60	0	NA	U	Y	Y	-	B	B	TILL
306-03	4.2	0.3	4.0	201.4	180.2	21.2	19.3	1.9	C	5	95	0	NA	U	+	Y	-	GNB	LGN	TILL
307-01A	7.6	2.1	5.6	283.0	265.7	17.3	17.1	0.2	C	30	70	0	NA	U	Y	Y	Y	OC	OC	TILL
307-01B	8.2	1.7	6.5	268.7	255.7	13.0	12.9	0.1	C	10	90	0	NA	U	Y	Y	Y	OC	OC	TILL
307A-01	9.5	0.4	9.1	410.8	338.6	72.2	59.4	12.8	C	70	30	0	NA	U	Y	Y	Y	GB	GB	TILL
308-01	5.2	0.5	4.7	267.0	190.7	76.3	39.0	37.3	C	80	20	0	NA	U	Y	Y	Y	GY	GY	TILL
310-01	7.6	0.6	7.0	379.9	344.4	35.5	30.2	5.3	C	40	60	0	NA	U	Y	Y	Y	GB	GB	TILL
311-01	9.6	1.1	8.5	319.1	265.8	53.3	42.8	10.5	C	40	40	20	NA	U	Y	Y	Y	B	GB	TILL
311-02	8.4	0.9	7.6	330.1	270.9	59.2	54.6	4.6	C	10	90	0	NA	U	Y	Y	Y	GB	GB	TILL
311-03	3.6	0.2	3.4	272.6	230.9	41.7	39.5	2.2	C	5	95	0	NA	U	+	Y	-	GB	GB	TILL
312A-01	4.2	0.7	3.6	256.5	234.9	21.6	19.3	2.3	C	40	60	0	NA	U	Y	Y	Y	GG	GG	TILL
312A-02	2.3	0.5	1.9	223.1	201.6	21.5	18.9	2.6	C	30	70	0	NA	U	Y	Y	Y	GB	GB	TILL
313-01	9.6	1.1	8.5	336.2	295.3	40.9	32.6	8.3	C	50	50	0	NA	U	+	Y	-	GB	GB	TILL
313-02	8.9	0.4	8.5	298.6	264.7	33.9	27.8	6.1	C	80	20	0	NA	U	Y	Y	Y	GB	GB	TILL
313-03	4.7	0.2	4.5	131.2	124.0	7.2	5.7	1.5	C	90	10	0	NA	U	Y	Y	Y	GG	GG	TILL
313-04	6.5	0.8	5.7	403.5	385.7	17.8	15.9	1.9	C	95	5	0	NA	U	Y	Y	-	GG	GG	TILL
315-01	9.3	0.2	9.1	316.2	225.1	91.1	78.4	12.7	C	15	85	0	NA	U	Y	Y	-	B	B	TILL
315-02	10.1	0.7	9.4	378.6	314.4	64.2	52.9	11.3	C	15	85	0	NA	U	Y	Y	-	GB	GB	TILL
315-03	4.7	0.2	4.5	355.2	304.4	50.8	43.6	7.2	C	10	90	0	NA	S	Y	-	-	GB	GB	SAND
316-01	9.6	0.5	9.1	394.9	316.7	78.2	63.4	14.8	C	55	45	0	NA	U	+	Y	-	GB	GB	SANDY TILL
316-02	4.3	0.3	4.0	327.5	293.2	34.3	27.4	6.9	C	60	40	0	NA	U	Y	Y	-	GG	GG	TILL
317-01	9.4	0.5	8.9	327.5	247.2	80.3	66.6	13.7	C	50	50	0	NA	U	+	Y	-	GB	GB	TILL
318-01	9.7	1.3	8.4	339.2	269.3	69.9	57.3	12.6	C	40	60	0	NA	U	Y	Y	Y	GB	GB	TILL
318-02	3.3	0.4	2.9	273.9	167.4	106.5	104.2	2.3	C	60	40	0	NA	U	Y	Y	Y	GG	GN	TILL
319-01	9.5	0.6	8.9	448.4	375.7	72.7	61.3	11.4	C	40	60	0	NA	U	+	Y	-	GB	GB	TILL
319-02	9.8	1.3	8.5	517.7	306.8	210.9	93.5	117.4	C	40	60	0	NA	U	+	Y	-	GY	GY	SANDY TILL
319-03	9.6	1.7	7.9	376.7	304.7	72.0	55.7	16.3	C	30	70	0	NA	S	+	-	-	GY	GY	SAND+GRAV
320-01	9.2	0.1	9.1	306.2	239.5	66.7	55.5	11.2	C	20	80	0	NA	S	M	Y	-	GB	GB	SAND
320-02	9.1	0.2	8.9	236.2	178.1	58.1	48.6	9.5	C	20	80	0	NA	S	+	Y	-	GB	GB	SAND
320-03	7.1	0.4	6.7	425.7	375.3	50.4	43.6	6.8	C	25	75	0	NA	U	+	Y	-	GB	GB	SANDY TILL

OVERBURDEN DRILLING MANAGEMENT LIMITED

LABORATORY SAMPLE LOG

SAMPLE NO.	WEIGHT (KG. WET)			WEIGHT (GRAMS DRY)						DESCRIPTION										CLASS
	TABLE+2	TABLE	TABLE	M. I. CONC			CLAST			MATRIX							OR			
				M. I.	CONC.	NON	SIZE	%	S/U	SD	ST	CY	COLOUR							
	SPLIT	CHIPS	FEED	CONC	LIGHTS	TOTAL	MAG	MAG	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	
									V/S	GR	LS	QTZ								
RR-96																				
320-04	8.6	0.7	7.9	353.3	289.5	63.8	53.6	10.2	C	40	60	0	NA	U	+	Y	-	GB	GB	SANDY TILL
320-05	9.2	0.4	8.8	236.1	175.6	60.5	50.1	10.4	C	60	40	0	NA	U	+	Y	-	GB	GB	SANDY TILL
320-06	8.9	0.3	8.6	407.3	337.9	69.4	60.5	8.9	C	70	30	0	NA	S	+	Y	-	GB	GB	SAND
320-07	9.0	1.1	7.9	389.5	325.5	64.0	49.2	14.8	C	50	50	0	NA	U	+	Y	-	GB	GB	SANDY TILL
320-08	10.1	0.6	9.5	409.9	296.6	113.3	94.6	18.7	C	60	40	0	NA	U	+	Y	-	GB	GB	SANDY TILL
320-09	9.9	0.4	9.5	464.8	375.7	89.1	75.4	13.7	C	40	60	0	NA	U	+	Y	-	GB	GB	TILL

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-96									
212-01	22	11	11	0	71.7	248	237	11	0
213-01	19	5	11	3	26.4	236	27	199	9
214-01	27	16	9	2	82.1	94	39	35	19
214-02	8	1	7	0	26.2	252	24	227	0
215-01	13	10	3	0	85.8	260	243	17	0
215-02	1	1	0	0	25.2	15	15	0	0
215-03	8	5	2	1	46.0	115	70	41	4
215-04	10	9	1	0	44.4	39	39	0	0
216-01	13	9	4	0	36.9	174	130	43	0
217-01	24	7	8	9	140.6	495	35	445	16
217-02	25	2	22	1	63.5	304	201	103	0
217-03	4	0	3	1	50.1	398	0	396	2
217-04	5	3	1	1	64.3	1	0	0	0
217-05	3	2	1	0	61.2	57	23	35	0
218-01	8	5	0	3	97.7	7	6	0	1
218-02	1	0	1	0	71.0	9	0	9	0
218-03	5	3	2	0	35.1	57	37	21	0
219-01	3	3	0	0	26.6	40	40	0	0
219-02	5	3	2	0	38.0	12	9	3	0
219A-01	4	3	1	0	41.5	58	54	5	0
219A-02	2	0	2	0	17.4	48	0	48	0
219A-03	5	3	2	0	22.8	14	13	1	0
219A-04	6	4	2	0	39.2	92	86	6	0
220-01	3	3	0	0	71.4	48	48	0	0
220-02	3	3	0	0	38.6	6	6	0	0
221-01	1	0	1	0	23.4	3	0	3	0
222-01	4	3	1	0	64.2	10	5	6	0
223-01	0	0	0	0	13.8	0	0	0	0
223-02	12	10	1	1	85.6	20	13	2	4
223-03	4	4	0	0	82.7	12	12	0	0
223-04	1	1	0	0	98.6	2	2	0	0
223-05	4	4	0	0	67.3	41	41	0	0
224-01	0	0	0	0	3.8	0	0	0	0
225-01	10	8	2	0	65.1	547	531	16	0
225-02	10	10	0	0	59.5	176	176	0	0
225-03	5	4	1	0	53.9	41	29	12	0
225-04	3	3	0	0	51.3	22	22	0	0
225-05	1	1	0	0	43.8	4	4	0	0
225-06	5	5	0	0	44.3	46	46	0	0
226-01	1	1	0	0	35.5	108	108	0	0
226-02	6	4	2	0	40.8	13	12	1	0
226-03	11	9	2	0	51.7	55	46	9	0
226-04	4	4	0	0	52.6	18	18	0	0
226-05	4	4	0	0	62.4	46	46	0	0
227-01	2	2	0	0	25.7	1	1	0	0
227-02	21	18	3	0	93.1	280	279	1	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-96									
227-03	5	5	0	0	40.8	1561	1561	0	0
227-04	10	10	0	0	65.0	106	106	0	0
227-05	4	4	0	0	80.3	29	29	0	0
227-06	4	4	0	0	38.7	145	145	0	0
227-07	5	5	0	0	26.6	283	283	0	0
228-01	2	2	0	0	47.7	6	6	0	0
228-02	3	1	2	0	41.6	53	24	29	0
228-03	2	2	0	0	46.7	62	62	0	0
228-04	0	0	0	0	34.6	0	0	0	0
229-01	5	5	0	0	213.6	87	87	0	0
229-02	10	10	0	0	86.8	40	40	0	0
229-03	10	10	0	0	66.0	373	373	0	0
229-04	5	5	0	0	57.9	380	380	0	0
229-05	1	1	0	0	61.8	1	1	0	0
230-01	1	1	0	0	37.3	17	17	0	0
230-01A	6	2	3	1	113.0	87	84	2	1
230-02A	4	3	1	0	52.2	8	7	2	0
231-01	8	5	3	0	117.2	23	16	6	0
231-02	2	1	1	0	105.6	4	2	2	0
232-01	12	4	7	1	65.2	62	38	21	3
232-02	13	13	0	0	61.2	30	30	0	0
232-03	2	2	0	0	22.4	25	25	0	0
233-01	5	5	0	0	51.8	16	16	0	0
233-02	14	7	3	4	107.2	49	11	32	6
233-03	26	13	11	2	104.5	75	55	19	1
233-04	16	16	0	0	195.6	7	7	0	0
234-01	1	1	0	0	57.6	18	18	0	0
234-02	4	4	0	0	98.9	18	18	0	0
234-03	4	4	0	0	94.7	70	70	0	0
235-01	0	0	0	0	30.4	0	0	0	0
235-02	2	2	0	0	66.8	8	8	0	0
235-03	1	1	0	0	47.3	1	1	0	0
236-01	1	1	0	0	8.4	120	120	0	0
236-01B	0	0	0	0	16.8	0	0	0	0
237-01	9	9	0	0	34.0	85	85	0	0
238-01	3	3	0	0	36.0	11	11	0	0
239-01	7	6	1	0	68.8	162	156	5	0
239-02	13	10	3	0	71.1	85	82	3	0
239-03	4	4	0	0	71.1	12	12	0	0
240-01	3	3	0	0	82.3	9	9	0	0
240-02	4	4	0	0	18.7	11	11	0	0
241-01	2	1	1	0	54.4	8	1	7	0
241-02	2	2	0	0	63.5	49	49	0	0
242-01	2	2	0	0	52.5	376	376	0	0
243-01	0	0	0	0	24.8	0	0	0	0
243B-01	2	2	0	0	10.9	42	42	0	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-96									
244-01	13	9	4	0	78.6	210	207	3	0
244-02	2	1	0	1	57.6	1	0	0	0
244-03	0	0	0	0	65.4	0	0	0	0
246-01	0	0	0	0	43.8	0	0	0	0
246-02	1	1	0	0	44.7	8	8	0	0
246-03	0	0	0	0	8.9	0	0	0	0
246-04	1	1	0	0	48.0	8	8	0	0
247-01	0	0	0	0	30.8	0	0	0	0
247-02	3	3	0	0	76.6	6	6	0	0
247-03	3	3	0	0	61.5	13	13	0	0
247-04	6	5	1	0	53.7	59	59	0	0
248-01	3	3	0	0	70.3	5	5	0	0
248-02	1	0	1	0	74.4	20	0	20	0
248-03	5	2	3	0	26.6	60	45	15	0
249-01	0	0	0	0	37.7	0	0	0	0
249-02	3	3	0	0	40.8	210	210	0	0
250-01	3	2	1	0	62.6	3	3	1	0
250-02	1	1	0	0	49.3	0	0	0	0
250-03	13	6	7	0	56.3	67	46	20	0
251-01	4	2	2	0	23.1	186	174	12	0
251-02	3	0	3	0	57.5	19	0	19	0
251-03	10	7	2	1	44.6	85	72	13	1
251-04	0	0	0	0	7.9	0	0	0	0
253-01	5	2	3	0	12.5	46	8	37	0
254-01	24	14	8	2	37.8	67	55	11	1
255-01	7	7	0	0	73.5	53	53	0	0
255-02	1	1	0	0	30.3	12	12	0	0
255-03	0	0	0	0	96.5	0	0	0	0
256-01	4	4	0	0	28.4	17	17	0	0
256-02	0	0	0	0	4.2	0	0	0	0
257-01	4	1	2	1	52.4	11	0	3	7
257-02	3	3	0	0	21.4	74	74	0	0
257-03	0	0	0	0	11.7	0	0	0	0
257-04	4	4	0	0	31.0	197	197	0	0
258-01	3	0	3	0	38.9	19	0	19	0
260-01	0	0	0	0	10.9	0	0	0	0
261-01	3	2	1	0	60.7	89	41	48	0
261-02	18	1	14	3	42.3	242	15	156	71
261-03	23	9	11	3	56.1	136	81	43	12
261-04	27	6	19	2	59.1	190	27	156	7
261-05	6	5	1	0	61.5	45	44	1	0
262-01	4	3	1	0	36.2	143	126	18	0
262-02	3	2	1	0	31.0	21	18	3	0
262-03	3	3	0	0	33.0	71	71	0	0
262-04	3	2	1	0	25.4	14	11	3	0
262-05	4	3	1	0	43.0	52	48	4	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-96									
262-06	6	5	1	0	42.4	24	22	2	0
262-07	2	0	2	0	15.2	100	0	100	0
263-01	5	5	0	0	39.3	35	35	0	0
264-01	6	6	0	0	44.6	21	21	0	0
264-02	3	3	0	0	63.2	12	12	0	0
264-03	2	2	0	0	53.7	19	19	0	0
265-01	9	7	2	0	16.9	84	46	39	0
265-02	2	0	2	0	30.5	36	0	36	0
265-03	0	0	0	0	7.3	0	0	0	0
265-04	2	0	2	0	16.6	13	0	13	0
265-05	3	3	0	0	17.0	44	44	0	0
266-01	1	0	1	0	16.1	63	0	63	0
266-02	4	2	1	1	39.2	2	1	0	1
266-03	5	5	0	0	20.8	148	148	0	0
266-04	2	2	0	0	8.2	657	657	0	0
267-01	35	19	15	1	83.6	321	297	23	1
267-02	12	9	3	0	39.7	760	732	28	0
267-03	10	3	5	2	75.7	76	37	36	4
267-04	3	1	2	0	55.5	25	3	22	0
267-05	4	4	0	0	23.2	64	64	0	0
267-06	1	1	0	0	4.4	19	19	0	0
268-01	7	6	0	1	35.2	102	101	0	1
268-02	3	3	0	0	36.5	3	3	0	0
268-03	9	1	2	6	56.9	24	1	18	4
268-04	4	4	0	0	69.5	328	328	0	0
269-01	3	1	2	0	45.6	7	1	6	0
269-02	9	4	5	0	57.6	149	143	7	0
269-03	5	3	1	1	40.5	28	27	0	1
269-04	2	0	2	0	91.7	1	0	1	0
269-05	5	2	2	1	58.7	87	85	1	1
269-06	5	5	0	0	54.8	536	536	0	0
269-07	6	5	0	1	63.2	15	14	0	1
269-08	0	0	0	0	33.3	0	0	0	0
269-09	3	0	3	0	45.7	12	0	12	0
269-10	17	6	8	3	69.0	76	25	43	8
269-11	14	4	5	5	87.7	30	21	3	6
269-12	2	0	2	0	28.8	6	0	6	0
271-01	10	6	4	0	49.9	117	108	9	0
271-02	10	6	3	1	32.2	102	77	20	4
272-01	7	4	3	0	61.7	52	9	44	0
272-02	7	6	0	1	42.6	643	634	0	9
272-03	8	5	3	0	51.0	85	76	9	0
272-04	5	5	0	0	42.7	257	257	0	0
272-05	1	1	0	0	16.7	889	889	0	0
272-06	11	8	3	0	17.7	3272	3266	5	0
272-07	1	1	0	0	16.7	90	90	0	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-96									
272-08	2	2	0	0	11.3	66	66	0	0
272-09	4	4	0	0	24.2	140	140	0	0
272-10	2	2	0	0	27.7	14	14	0	0
272-11	3	3	0	0	33.6	9	9	0	0
272-12	9	7	1	1	35.5	278	275	2	0
272-13	1	1	0	0	40.6	2	2	0	0
272-14	4	3	1	0	23.9	184	183	1	0
272-15	1	1	0	0	31.6	12	12	0	0
272-16	2	2	0	0	49.9	17	17	0	0
272-17	15	10	5	0	30.0	627	600	27	0
272-18	9	5	4	0	31.0	38	26	12	0
273-01	3	2	0	1	26.4	84	60	0	24
273-02	7	2	4	1	30.6	83	70	13	0
273-03	0	0	0	0	9.4	0	0	0	0
273-04	1	1	0	0	8.0	1425	1425	0	0
273-05	6	6	0	0	26.5	192	192	0	0
273-06	2	2	0	0	11.3	585	585	0	0
274-01	16	11	4	1	44.9	106	104	2	0
274-02	9	6	3	0	45.2	407	397	10	0
274-03	7	7	0	0	48.6	475	475	0	0
275-01	4	4	0	0	25.5	197	197	0	0
276-01	11	9	0	2	51.3	108	103	0	5
276-02	7	7	0	0	55.4	92	92	0	0
276-03	17	16	0	1	60.9	432	432	0	0
276-04	27	14	13	0	59.5	266	184	82	0
276-05	14	13	1	0	81.9	25	24	0	0
276-06	2	0	2	0	73.4	5	0	5	0
276-07	9	5	4	0	75.0	503	413	90	0
276-08	14	6	7	1	67.1	134	65	47	22
277-01	2	2	0	0	56.1	13	13	0	0
277-02	13	11	2	0	60.1	85	75	9	0
277-03	5	5	0	0	41.2	133	133	0	0
277-04	7	7	0	0	49.0	107	107	0	0
277-05	10	9	0	1	45.6	159	51	0	108
277-06	8	7	1	0	40.5	80	80	0	0
278-01	12	3	8	1	76.7	171	25	126	20
278-02	10	4	5	1	34.8	639	139	456	43
279-01	3	3	0	0	39.0	119	119	0	0
279-02	4	1	3	0	26.2	285	81	204	0
279-03	9	7	2	0	34.9	128	120	8	0
279-04	1	0	1	0	12.0	319	0	319	0
279-05	1	1	0	0	16.5	91	91	0	0
280-01	2	2	0	0	48.4	100	100	0	0
280-02	14	8	5	1	71.6	45	18	27	0
280-03	25	10	14	1	73.5	52	34	18	0
280-04	50	20	29	1	107.6	104	64	39	2

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-96									
281-01	47	20	26	1	59.1	209	91	118	1
281-02	14	6	7	1	95.4	47	28	3	16
281-03	21	11	10	0	75.9	112	84	28	0
281-04	73	27	44	2	103.3	367	309	52	5
282-01	12	3	9	0	36.9	41	6	35	0
282-02	12	4	8	0	63.4	68	11	58	0
282-03	21	13	8	0	38.3	102	95	8	0
283-01	31	14	15	2	99.1	79	37	38	5
283-02	74	29	43	2	108.6	534	68	459	7
283-03	49	6	40	3	102.9	195451	12	195437	2
283-04	70	24	44	2	96.7	380	319	56	6
284-01	7	4	3	0	20.2	112	31	82	0
285-01	35	19	12	4	40.7	274	78	152	44
285-02	24	11	10	3	60.7	166	137	14	15
285-03	12	6	3	3	59.3	339	213	107	18
285-04	14	7	7	0	39.9	26	10	16	0
285-05	13	9	4	0	49.2	96	90	5	0
286-01	7	2	3	2	18.9	72	38	10	24
286-02	8	2	3	3	24.7	75	13	52	9
286-03	9	6	3	0	38.5	2780	2252	528	0
286-04	1	0	1	0	17.1	22	0	22	0
287-01	2	2	0	0	20.7	62	62	0	0
287-02	0	0	0	0	44.2	0	0	0	0
287-03	2	2	0	0	43.7	10	10	0	0
288-01	3	1	2	0	39.3	20	2	18	0
288-02	1	0	1	0	23.6	3	0	3	0
288-03	9	6	2	1	33.3	83	52	31	1
289-01	0	0	0	0	30.6	0	0	0	0
289-02	3	2	1	0	31.4	299	53	246	0
290-01	2	2	0	0	22.9	7	7	0	0
291-01	1	1	0	0	34.7	6	6	0	0
292-01	5	5	0	0	28.2	35	35	0	0
292-02	0	0	0	0	28.6	0	0	0	0
292-03	1	1	0	0	29.3	51	51	0	0
293-01	4	4	0	0	14.1	91	91	0	0
294-01	3	2	1	0	34.7	51	40	11	0
294-02	2	1	1	0	30.3	36	33	3	0
294-03	0	0	0	0	31.0	0	0	0	0
294-04	2	2	0	0	34.0	13	13	0	0
294A-01	1	1	0	0	18.1	21	21	0	0
294A-02	0	0	0	0	17.0	0	0	0	0
294A-03	0	0	0	0	30.6	0	0	0	0
294A-04	1	1	0	0	18.8	1	1	0	0
294A-05	0	0	0	0	15.4	0	0	0	0
295-01	0	0	0	0	55.1	0	0	0	0
295-02	0	0	0	0	71.5	0	0	0	0

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NUINSCO: DOUG HUME -- RR-96

07/12/96

OVERBURDEN DRILLING MANAGEMENT LIMITED

GOLD GRAIN SUMMARY SHEET

NUINSCO\RR961JUL.WR2

Sample No.	Number of Visible Gold Grains				Non-Mag Weight	Calculated PFB Visible Gold			
	Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
RR-96									
283-4	48	14	26	8	96.7	111	33	48	29

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-96									
296-01	1	1	0	0	58.9	1	1	0	0
296-02	1	1	0	0	63.6	33	33	0	0
296-03	0	0	0	0	49.7	0	0	0	0
297-01	1	1	0	0	36.1	28	28	0	0
297-02	1	1	0	0	23.9	27	27	0	0
298-01	2	2	0	0	45.5	399	399	0	0
298-02	3	3	0	0	37.1	107	107	0	0
298-03	7	7	0	0	25.2	473	473	0	0
299-01	4	0	4	0	37.1	113	0	113	0
299-02	3	0	3	0	56.1	66	0	66	0
299-03	9	2	7	0	69.9	318	15	304	0
299-04	28	5	22	1	67.0	308	98	204	6
300-01	3	2	1	0	69.8	37	7	30	0
301-01	16	7	9	0	48.5	703	182	521	0
301-02	1	1	0	0	95.2	7	7	0	0
301-03	5	0	4	1	46.7	130	0	116	14
301-04	3	1	2	0	28.8	93	74	19	0
301-05	10	5	5	0	45.0	322	176	146	0
304-01	4	1	2	1	22.4	17	9	5	4
304-02	1	1	0	0	14.5	2	2	0	0
305-01	3	1	2	0	14.2	109	106	3	0
305-02	1	1	0	0	5.0	16	16	0	0
305-03	0	0	0	0	30.4	0	0	0	0
305-04	0	0	0	0	46.7	0	0	0	0
305-05	3	2	1	0	51.0	3	2	0	0
305-06	2	0	2	0	33.7	3	0	3	0
305-07	1	1	0	0	48.0	1	1	0	0
305-08	0	0	0	0	39.5	0	0	0	0
305-09	1	1	0	0	31.1	1	1	0	0
306-01	12	8	3	1	32.9	206	196	9	1
306-02	9	2	4	3	50.6	25	13	10	2
306-03	3	2	1	0	19.3	3	3	0	0
307-01A	1	1	0	0	17.1	5	5	0	0
307-01B	2	1	1	0	12.9	8	6	2	0
307A-01	5	0	4	1	59.4	2	0	2	0
308-01	4	2	2	0	39.0	3	2	1	0
310-01	15	8	5	2	30.2	110	84	21	5
311-01	4	2	2	0	42.8	3	0	3	0
311-02	7	3	4	0	54.6	16	11	5	0
311-03	2	1	1	0	39.5	3	2	1	0
312A-01	6	3	3	0	19.3	28	22	6	0
312A-02	2	2	0	0	18.9	30	30	0	0
313-01	0	0	0	0	32.6	0	0	0	0
313-02	2	1	1	0	27.8	14	13	0	0
313-03	0	0	0	0	5.7	0	0	0	0
313-04	0	0	0	0	15.9	0	0	0	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-96									
315-01	2	2	0	0	78.4	13	13	0	0
315-02	9	9	0	0	52.9	126	126	0	0
315-03	2	2	0	0	43.6	9	9	0	0
316-01	8	8	0	0	63.4	22	22	0	0
316-02	2	2	0	0	27.4	44	44	0	0
317-01	2	2	0	0	66.6	24	24	0	0
318-01	5	5	0	0	57.3	27	27	0	0
318-02	4	4	0	0	104.2	6	6	0	0
319-01	1	1	0	0	61.3	10	10	0	0
319-02	2	1	1	0	93.5	1	1	0	0
319-03	5	5	0	0	55.7	59	59	0	0
320-01	16	12	4	0	55.5	44	41	4	0
320-02	5	5	0	0	48.6	84	84	0	0
320-03	3	3	0	0	43.6	5	5	0	0
320-04	15	14	0	1	53.6	89	86	0	4
320-05	9	9	0	0	50.1	67	67	0	0
320-06	11	8	3	0	60.5	119	111	8	0
320-07	2	2	0	0	49.2	170	170	0	0
320-08	17	14	3	0	94.6	66	64	2	0
320-09	10	7	3	0	75.4	371	367	5	0

APPENDIX III

ACTLABS BEDROCK ANALYSES

Rainy River Project
Work Report
1996 Reverse Circulation Drill Data
Paul Jones, Project Geologist
July 22, 1996

ACTLABS

**ACTIVATION
LABORATORIES LTD**

Invoice No.: 9752
Work Order: 9854
Invoice Date: 21-FEB-96
Date Submitted: 30-JAN-96
Your Reference: RR-96
Account Number: 758

OVERBURDEN DRILLING MNGT
107-15 CAPELLA COURT
EPEAN, ONTARIO
A2E 7X1
CANADA
ATTENTION: REMY HUNEALT

CERTIFICATE OF ANALYSIS

REPORT 9752 - AU, AS - INAA
9752B - AQUA REGIA - ICP
9752C - MAJOR ELEMENTS FUSION - ICP

CERTIFIED BY :

per J. Brech
DR. ERIC L. HOFFMAN

Activation Laboratories Ltd. Work Order: 9854 Report: 9752

Sample description	AU PPB	AS PPM	Mass g
RR-96-212-02	<5	<2	31.88
RR-96-213-02	<5	<2	30.29
RR-96-214-03	<5	4	23.09
RR-96-215-05	17	<2	17.81
RR-96-216-02	<5	<2	29.31
RR-96-217-06	<5	4	24.63
RR-96-218-04	<5	4	28.05

Activation Laboratories Ltd. Work Order: 9854 Report: 9752C

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-96-212-02	46.10	13.87	12.74	0.25	3.29	12.26	2.53	0.08	1.12	0.12	7.95	100.31	21	92	25	42	56	< 1	293
RR-96-213-02	45.52	13.03	11.57	0.24	4.60	13.88	1.05	0.26	0.61	0.07	8.17	99.00	59	119	17	38	39	< 1	204
RR-96-214-03	51.55	14.59	10.52	0.20	7.39	9.01	2.69	0.58	0.62	0.07	3.58	100.78	88	124	16	38	39	< 1	200
RR-96-215-05	56.69	16.97	16.27	0.17	0.88	0.23	0.02	0.66	1.44	0.06	7.55	100.94	50	12	7	55	95	< 1	303
RR-96-216-02	55.51	15.23	11.12	0.26	5.66	6.18	2.01	0.45	0.67	0.08	3.70	100.87	62	95	18	45	42	< 1	225
RR-96-217-06	75.75	13.93	1.12	0.01	0.34	0.70	4.10	1.84	0.27	0.12	1.15	99.33	1305	464	5	6	70	< 1	43
RR-96-218-04	74.10	15.45	0.81	<0.01	0.32	0.89	4.53	2.33	0.28	0.14	1.09	99.93	2370	747	5	5	86	< 1	47

ACTLABS

**ACTIVATION
LABORATORIES LTD**

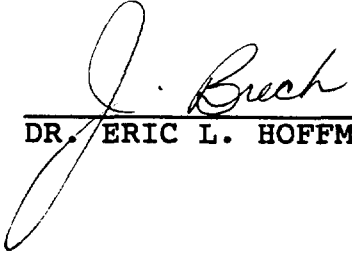
Invoice No.: 9708
Work Order: 9857
Invoice Date: 18-FEB-96
Date Submitted: 31-JAN-96
Your Reference: RR-96
Account Number: 758

OVERBURDEN DRILLING MNGMT
107-15 CAPELLA COURT
NEPEAN, ONTARIO
2E 7X1
CANADA
ATTENTION: REMY/ STU AVERILL

CERTIFICATE OF ANALYSIS

REPORT 9708 - AU, AS - INAA
9708B - AQUA REGIA - ICP
9708C - MAJOR ELEMENTS FUSION - ICP

CERTIFIED BY :

per 
DR. ERIC L. HOFFMAN

Activation Laboratories Ltd. Work Order: 9857 Report: 9708

Sample description	AU PPB	AS PPM	Mass g
RR-96-219A-05	<5	<2	27.08
RR-96-220-03	<5	<2	25.94
RR-96-221-02	<5	<2	29.39
RR-96-222-02	18	9	31.79
RR-96-223-06	<5	77	29.64

Activation Laboratories Ltd. Work Order No. 9857 Report No. 9708B

SAMPLE	Ag ppm	Cu ppm	Ni ppm	Zn ppm
RR-96-219A-05	0.4	333	37	104
RR-96-220-03	-0.2	14	12	31
RR-96-221-02	0.3	105	52	56
RR-96-222-02	0.5	77	55	69
RR-96-223-06	0.2	8	10	33

Activation Laboratories Ltd. Work Order: 9857 Report: 9708C

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-96-219A-05	58.01	17.35	9.26	0.26	2.64	3.73	0.27	3.40	0.76	0.08	3.85	99.61	667	149	11	51	51	< 1	262
RR-96-220-03	69.64	14.80	3.62	0.07	0.91	2.42	3.95	2.22	0.31	0.13	1.96	100.02	679	452	7	7	101	< 1	45
RR-96-221-02	49.94	15.99	9.16	0.23	4.38	8.53	1.32	0.42	0.68	0.08	7.37	98.09	159	101	18	44	46	1	224
RR-96-222-02	45.74	11.77	16.39	0.49	3.56	10.89	0.79	0.42	0.51	0.05	8.34	98.94	168	113	21	43	37	< 1	198
RR-96-223-06	67.75	15.25	3.62	0.04	0.83	2.00	4.71	2.76	0.30	0.28	1.66	99.19	1026	707	10	5	118	1	40

ACTLABS

**ACTIVATION
LABORATORIES LTD**

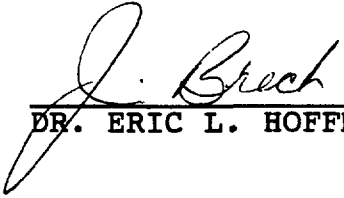
Invoice No.: 9826
Work Order: 9986
Invoice Date: 04-MAR-96
Date Submitted: 16-FEB-96
Your Reference: RR-96
Account Number: 758

OVERBURDEN DRILLING MANAGEMENT
107-15 CAPELLA COURT
NEPEAN, ONTARIO
K2E 7X1
CANADA
ATTN: REMY HUNEULT

CERTIFICATE OF ANALYSIS

REPORT 9826 - INAA
9826B - AQUA REGIA - ICP
9826C - MAJOR ELEMENTS FUSION - ICP

CERTIFIED BY :

see 
DR. ERIC L. HOFFMAN

Activation Laboratories Ltd. Work Order: 9986 Report: 9826

Sample description	AU PPB	AS PPM	Mass g
RR-96-224-02	<5	<2	32.74
RR-96-225-07	<5	<2	30.56
RR-96-225-08	<5	3	33.16
RR-96-226-06	8	<2	30.40
RR-96-227-08	<5	5	30.59
RR-96-228-05	<5	10	29.34
RR-96-229-05	<5	3	29.12
RR-96-230-03	<5	4	31.94
RR-96-231-03	<5	9	30.79
RR-96-232-04	<5	<2	35.03
RR-96-233-05	11	110	28.65

Activation Laboratories Ltd. Work Order No. 9986 Report No. 9826B

SAMPLE	Ag ppm	Cu ppm	Ni ppm	Zn ppm	Cd ppm	Mn ppm	Pb ppm
RR-96-224-02	0.4	97	40	36	-0.5	1920	-2
RR-96-225-07	0.5	48	26	120	-0.5	749	-2
RR-96-225-08	0.3	80	20	71	-0.5	307	-2
RR-96-226-06	-0.2	65	12	35	-0.5	188	-2
RR-96-227-08	-0.2	19	24	21	-0.5	51	-2
RR-96-228-05	-0.2	64	59	73	-0.5	405	3
RR-96-229-05	0.3	44	17	13	-0.5	31	4
RR-96-230-03	0.2	26	23	81	-0.5	252	2
RR-96-231-03	-0.2	31	82	3	-0.5	15	-2
RR-96-232-04	-0.2	4	19	26	-0.5	255	2
RR-96-233-05	0.8	44	61	13	-0.5	22	3

Activation Laboratories Ltd. Work Order: 9986 Report: 9826C

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-96-224-02	40.24	11.62	18.02	0.48	5.94	12.56	0.64	0.22	0.48	0.04	9.46	99.68	54	52	19	37	39	< 1	184
RR-96-225-08	66.99	15.60	3.17	0.05	0.94	3.64	5.55	1.42	0.30	0.09	1.35	99.10	256	435	4	6	80	< 1	42
RR-96-226-06	71.37	15.74	2.13	0.03	0.67	2.05	4.70	2.12	0.35	0.09	1.04	100.29	427	538	4	5	84	< 1	46
RR-96-227-08	70.56	16.59	0.89	<0.01	0.41	2.10	5.99	1.06	0.45	0.11	0.82	98.97	678	568	4	7	94	< 1	50
RR-96-228-05	60.99	19.28	6.43	0.10	2.33	1.61	3.00	2.87	0.67	0.15	2.71	100.14	529	402	12	21	112	1	160
RR-96-229-05	71.46	17.51	1.00	<0.01	0.56	2.46	4.46	1.69	0.42	0.07	1.26	100.91	654	880	4	6	90	< 1	81
RR-96-230-03	68.19	15.40	5.60	0.10	0.43	3.29	3.40	2.37	0.31	0.13	0.83	100.04	897	771	9	14	95	< 1	70
RR-96-231-03	75.86	14.77	0.78	<0.01	0.09	0.32	1.81	1.92	0.38	0.18	1.91	98.02	1764	356	5	7	75	< 1	74
RR-96-232-04	69.11	16.32	4.10	0.06	1.04	3.90	2.62	0.96	0.41	0.14	1.53	100.17	886	1237	7	7	96	< 1	61
RR-96-233-05	69.34	12.71	8.17	<0.01	0.20	0.54	0.46	0.96	0.45	<0.01	6.83	99.59	527	343	4	7	71	< 1	66

ACTLABS

**ACTIVATION
LABORATORIES LTD**

Invoice No.: 9877
Work Order: 10015
Invoice Date: 22-MAR-96
Date Submitted: 21-FEB-96
Your Reference: RR-96
Account Number: 756

OVERBURDEN DRILLING MNGMNT
107-15 CAPELLA COURT
NEPEAN, ONTARIO
K2E 7X1
CANADA
ATTENTION: REMY HUNEULT

CERTIFICATE OF ANALYSIS

REPORT 9877 - AU, AS - INAA
9877B - AQUA REGIA - ICP
9877C - MAJOR ELEMENTS FUSION - ICP

CERTIFIED BY :

Eric L. Hoffman
DR. ERIC L. HOFFMAN

Activation Laboratories Ltd. Work Order: 10015 Report: 9877

Sample description	AU PPB	AS PPM	Mass g
RR-96-234-04	<5	<2	15.80
RR-96-234-05	<5	6	18.15
RR-96-234-06	18	4	17.83
RR-96-234-07	<5	2	20.78
RR-96-234-08	<5	<2	20.83
RR-96-234-09	<5	6	22.80
RR-96-234-10	<5	5	26.29
RR-96-234-11	<5	2	27.88
RR-96-234-12	<5	4	25.92
RR-96-234-13	<5	<2	20.71
RR-96-234-14	8	3	19.16
RR-96-234-15	<5	3	17.60
RR-96-234-16	<5	3	21.23
RR-96-234-17	<5	4	26.08
RR-96-234-18	<5	7	23.30
RR-96-234-19	<5	7	23.12
RR-96-234-20	<5	5	24.37
RR-96-234-21	<5	6	23.18
RR-96-234-22	<5	2	24.18
RR-96-234-23	<5	<2	22.94
RR-96-234-24	<5	<2	22.01

Activation Laboratories Ltd. Work Order No. 10015 Report No. 9877B

SAMPLE	Ag ppm	Cu ppm	Ni ppm	Zn ppm
RR-96-234-04	0.2	27	41	124
RR-96-234-05	-0.2	36	42	77
RR-96-234-06	-0.2	38	66	100
RR-96-234-07	-0.2	23	47	90
RR-96-234-08	-0.2	25	47	97
RR-96-234-09	-0.2	21	54	92
RR-96-234-10	-0.2	10	34	70
RR-96-234-11	-0.2	8	29	70
RR-96-234-12	-0.2	22	33	72
RR-96-234-13	-0.2	21	33	89
RR-96-234-14	-0.2	17	44	82
RR-96-234-15	0.2	3200	35	82
RR-96-234-16	-0.2	34	47	79
RR-96-234-17	-0.2	16	34	81
RR-96-234-18	-0.2	31	34	79
RR-96-234-19	-0.2	16	30	70
RR-96-234-20	-0.2	21	27	68
RR-96-234-21	-0.2	17	29	65
RR-96-234-22	-0.2	17	30	61
RR-96-234-23	-0.2	13	27	74
RR-96-234-24	-0.2	20	35	84

Activation Laboratories Ltd. Work Order: 10015 Report: 9877C

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-96-234-04	68.79	17.07	4.05	0.15	0.95	0.53	1.97	2.23	0.44	0.08	3.80	100.05	513	290	11	10	123	1	74
RR-96-234-07	63.93	19.13	5.86	0.03	1.70	0.48	0.97	2.23	0.57	0.17	5.26	100.33	597	352	11	15	133	1	108
RR-96-234-10	64.80	18.40	4.78	0.04	1.58	0.84	3.65	1.19	0.50	0.19	4.90	100.88	294	361	8	10	104	1	77
RR-96-234-13	66.13	18.95	3.77	0.04	1.69	0.70	2.25	1.91	0.55	0.21	4.57	100.76	548	334	11	13	135	1	104
RR-96-234-17	62.46	18.97	5.03	0.05	1.99	0.93	4.07	1.20	0.53	0.24	5.39	100.84	374	405	10	11	111	< 1	85
RR-96-234-20	62.97	18.41	5.42	0.06	2.19	0.73	3.96	1.24	0.52	0.18	4.10	99.78	1447	439	10	11	122	< 1	80
RR-96-234-24	62.67	19.47	5.26	0.05	2.27	0.60	1.54	2.70	0.60	0.19	4.76	100.11	866	467	11	16	142	1	129

ACTLABS

**ACTIVATION
LABORATORIES LTD**

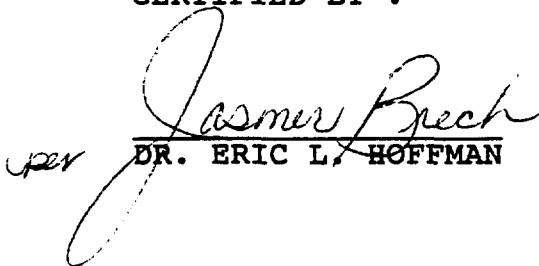
Invoice No.: 9886
Work Order: 10039
Invoice Date: 13-MAR-96
Date Submitted: 23-FEB-96
Your Reference: RR-96
Account Number: 758

OVERBURDEN DRILLING MNGT
107-15 CAPELLA COURT
NEPEAN, ONTARIO
K2E 7X1
CANADA
ATTENTION: REMY HUNEULT

CERTIFICATE OF ANALYSIS

REPORT 9886 - INAA
9886B - AQUA REGIA - ICP
9886C - MAJOR ELEMENTS FUSION - ICP

CERTIFIED BY :

per 
DR. ERIC L. HOFFMAN

Activation Laboratories Ltd. Work Order: 10039 Report: 9886

Sample description	AU PPB	AS PPM	Mass g
RR-96-235-04	<5	<2	19.21
RR-96-236-02	<5	<2	26.61
RR-96-237-02	<5	<2	32.79
RR-96-238-02	<5	<2	34.69
RR-96-239-04	<5	<2	34.86
RR-96-240-03	<5	<2	34.87
RR-96-241-03	5	<2	27.66
RR-96-242-02	<5	<2	30.03
RR-96-243-02	<5	<2	34.72
RR-96-244-04	<5	<2	35.20
RR-96-245-01	<5	<2	32.94
RR-96-245-02	<5	<2	33.57
RR-96-245-03	<5	<2	36.36

Activation Laboratories Ltd. Work Order No. 10039 Report No. 9886B

SAMPLE	Ag ppm	Cu ppm	Ni ppm	Zn ppm	Cd ppm	Mn ppm	Pb ppm
RR-96-235-04	-0.2	32	20	45	-0.5	311	3
RR-96-236-02	-0.2	9	13	32	-0.5	110	4
RR-96-237-02	-0.2	106	63	10	-0.5	161	-2
RR-96-238-02	-0.2	99	32	79	-0.5	812	3
RR-96-239-04	0.2	48	23	38	-0.5	378	-2
RR-96-240-03	0.2	39	25	17	-0.5	675	-2
RR-96-241-03	0.2	16	34	48	-0.5	259	-2
RR-96-242-02	0.2	24	32	32	-0.5	189	-2
RR-96-243-02	-0.2	24	55	27	-0.5	243	-2
RR-96-244-04	-0.2	60	28	48	-0.5	380	-2
RR-96-245-01	-0.2	58	9	51	-0.5	383	-2
RR-96-245-02	0.2	39	8	33	-0.5	401	-2
RR-96-245-03	-0.2	63	6	44	-0.5	220	-2

Activation Laboratories Ltd. Work Order: 10039 Report: 9886C

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-96-235-04	68.81	16.85	3.42	0.04	0.69	0.36	3.47	2.13	0.36	0.02	3.29	99.43	812	527	5	8	110	< 1	400
RR-96-236-02	68.60	16.06	2.41	0.03	1.48	1.26	5.55	3.58	0.21	0.12	1.09	100.38	1010	449	4	3	90	1	35
RR-96-237-02	47.10	13.06	12.62	0.21	10.47	12.30	1.36	0.35	0.63	0.05	2.10	100.24	68	148	14	35	37	< 1	208
RR-96-238-02	44.51	12.79	15.00	0.19	4.59	8.26	2.93	0.29	1.31	0.10	9.30	99.26	42	152	23	34	75	< 1	202
RR-96-239-04	50.69	13.66	16.70	0.23	5.10	8.06	2.35	0.25	1.84	0.20	1.79	100.87	37	152	38	36	128	2	274
RR-96-240-03	52.82	14.48	11.63	0.24	5.43	10.11	1.86	0.48	0.68	0.06	2.54	100.33	66	88	16	40	38	1	237
RR-96-241-03	59.95	17.66	6.14	0.08	2.88	5.21	5.43	1.57	0.48	0.22	1.25	100.87	855	1180	10	9	115	1	91
RR-96-242-02	61.49	16.89	4.97	0.08	3.21	5.10	5.17	2.28	0.41	0.20	1.07	100.85	1055	1014	9	10	83	1	83
RR-96-243-02	50.72	12.87	19.09	0.26	3.93	7.52	2.83	0.17	2.38	0.35	0.42	100.53	38	115	52	38	161	1	180
RR-96-244-04	46.92	14.16	17.73	0.25	5.92	7.86	2.58	0.34	2.03	0.22	2.56	100.56	41	129	33	40	101	1	361
RR-96-245-03	49.35	12.55	19.13	0.27	4.79	6.65	3.82	0.61	2.37	0.22	0.52	100.28	157	96	38	42	121	2	381

ACTLABS

**ACTIVATION
LABORATORIES LTD**

Invoice No.: 9940
Work Order: 10069
Invoice Date: 15-MAR-96
Date Submitted: 29-FEB-96
Your Reference: RR-96
Account Number: 758

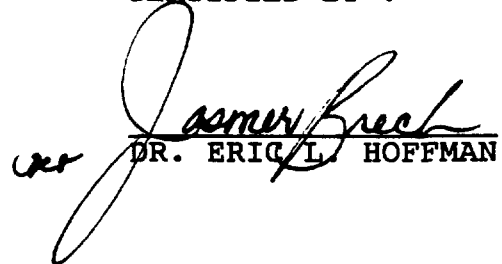
OVERBURDEN DRILLING MNGMT
107-15 CAPELLA COURT
NEPEAN, ONTARIO
K2E 7X1

ATTN: REMY HUNEALT

CERTIFICATE OF ANALYSIS

REPORT 9940 - AU, AS - INAA
9940B - AQUA REGIA - ICP
9940C - MAJOR ELEMENTS FUSION - ICP

CERTIFIED BY :


DR. ERIC L. HOFFMAN

Activation Laboratories Ltd. Work Order: 10069 Report: 9940

Sample description	AU PPB	AS PPM	Mass g
RR-96-246-05	104	<2	24.14
RR-96-246-06	55	2	29.07
RR-96-247-05	<5	<2	33.90
RR-96-248-04	15	3	23.44
RR-96-248-05	<5	3	28.43
RR-96-248-06	11	4	31.95
RR-96-249-03	<5	<2	32.88
RR-96-250-04	<5	<2	31.84
RR-96-251-05	<5	<2	31.13
RR-96-252-01	<5	<2	30.04
RR-96-253-02	<5	<2	30.22
RR-96-254-02	<5	<2	25.61
RR-96-254-03	18	<2	32.30
RR-96-255-04	<5	<2	31.41
RR-96-255-05	<5	<2	35.54
RR-96-256-03	<5	<2	26.23
RR-96-257-05	<5	<2	24.26
RR-96-257-06	<5	<2	22.76

Activation Laboratories Ltd. Work Order: 10069 Report: 9940C

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-96-246-06	49.17	15.13	14.12	1.35	4.67	4.51	0.54	0.39	0.64	0.08	9.36	99.96	56	88	41	40	44	< 1	210
RR-96-247-05	57.14	15.29	6.58	0.09	2.25	6.31	3.22	1.23	0.50	0.14	4.92	97.68	231	395	10	16	80	< 1	117
RR-96-248-05	55.64	15.13	13.94	0.19	6.23	1.71	2.01	0.24	0.92	0.08	4.47	100.55	90	119	19	46	64	1	292
RR-96-248-06	63.20	12.75	11.19	0.17	4.44	2.55	1.82	0.15	0.68	0.09	3.41	100.45	55	146	16	33	47	< 1	224
RR-96-249-03	59.27	15.97	5.13	0.10	2.47	5.71	4.42	2.46	0.45	0.24	3.60	99.82	1103	755	11	12	108	1	103
RR-96-250-04	59.33	14.43	5.75	0.12	3.47	6.30	4.79	0.33	0.55	0.17	5.16	100.40	128	670	10	15	78	< 1	107
RR-96-251-05	54.99	17.04	9.55	0.14	4.41	6.08	4.09	1.07	0.82	0.38	2.38	100.94	594	655	20	32	77	1	250
RR-96-252-01	50.62	14.87	7.64	0.17	3.26	11.60	2.89	1.43	0.65	0.24	7.28	100.64	584	790	16	27	70	1	195
RR-96-253-02	49.33	15.71	8.83	0.17	3.90	10.94	2.64	1.11	0.67	0.24	7.17	100.72	565	686	16	28	72	1	199
RR-96-254-03	54.44	15.90	11.51	0.15	6.41	2.95	3.46	0.13	0.88	0.55	4.22	100.60	45	105	19	33	44	< 1	231
RR-96-255-04	46.06	17.07	12.77	0.20	6.12	10.20	3.20	0.13	0.88	0.08	4.13	100.84	50	230	20	33	47	< 1	270
RR-96-255-05	48.23	15.55	12.74	0.18	6.99	9.98	3.28	0.09	0.90	0.07	2.61	100.62	31	195	21	39	52	2	239
RR-96-256-03	51.50	15.69	13.05	0.15	7.93	3.53	2.93	0.16	1.03	0.11	4.51	100.61	40	136	20	36	57	2	249
RR-96-257-05	64.52	9.81	6.23	0.10	2.23	6.91	1.55	0.63	0.29	0.08	7.13	99.49	110	267	8	11	50	< 1	73

ACTLABS

**ACTIVATION
LABORATORIES LTD**

Invoice No.: 10079
Work Order: 10186
Invoice Date: 04-APR-96
Date Submitted: 14-MAR-96
Your Reference: RR-96
Account Number: 756

OVERBURDEN DRILLING MNGT LTD
107-15 CAPELLA COURT
NEPEAN, ONTARIO
K2E 7X1

ATTN: REMY HUNEULT

CERTIFICATE OF ANALYSIS

REPORT 10079 - AU, AS - INAA
10079B - AQUA REGIA - ICP
10079C - MAJOR ELEMENTS FUSION - ICP

CERTIFIED BY :

per Eric Hoffman
DR. ERIC L. HOFFMAN

Activation Laboratories Ltd. Work Order: 10186 Report: 10079

Sample description	AU PPB	AS PPM	Mass g
RR-96-258-02	<5	<2	26.39
RR-96-259-01	<5	<2	30.53
RR-96-260-02	<5	<2	29.60
RR-96-261-06	<5	<2	28.98
RR-96-262-08	<5	<2	22.16
RR-96-263-02	8	<2	26.92
RR-96-263-03	8	3	25.46
RR-96-264-04	<5	<2	16.14
RR-96-265-06	<5	<2	23.49
RR-96-266-05	<5	<2	28.59
RR-96-267-07	<5	<2	24.77
RR-96-268-05	<5	<2	21.86

Activation Laboratories Ltd. Work Order No. 10186 Report No. 10079B

SAMPLE	Ag	Cu	Ni	Pb
	ppm	ppm	ppm	ppm
RR-96-258-02	-0.2	80	54	13
RR-96-259-01	-0.2	80	94	10
RR-96-260-02	-0.2	26	128	10
RR-96-261-06	-0.2	55	83	10
RR-96-262-08	-0.2	64	44	19
RR-96-263-02	-0.2	52	31	11
RR-96-263-03	-0.2	5	38	20
RR-96-264-04	-0.2	9	24	9
RR-96-265-06	0.3	11	37	24
RR-96-266-05	-0.2	39	16	6
RR-96-267-07	-0.2	23	34	6
RR-96-268-05	-0.2	16	41	13

Activation Laboratories Ltd. Work Order: 10186 Report: 10079C

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-96-258-02	48.77	13.75	12.94	0.22	2.38	8.48	2.13	0.57	1.90	0.19	7.77	99.07	116	142	26	35	92	2	343
RR-96-259-01	46.15	16.22	14.09	0.19	7.13	9.59	2.22	0.43	0.95	0.08	3.32	100.38	74	135	19	37	49	< 1	275
RR-96-260-02	46.45	14.70	13.54	0.20	9.35	10.58	1.91	0.10	0.74	0.06	2.84	100.46	15	113	16	37	37	< 1	225
RR-96-261-06	48.33	15.93	13.39	0.16	6.88	9.04	2.85	0.14	0.98	0.09	2.98	100.76	28	203	20	36	56	< 1	258
RR-96-262-08	49.62	19.43	13.09	0.12	3.79	1.64	0.29	3.77	1.01	0.45	7.50	100.73	523	198	48	40	97	1	207
RR-96-263-02	55.84	14.48	9.64	0.15	4.20	3.34	1.81	1.83	0.66	0.27	5.99	98.20	616	553	12	25	78	1	200
RR-96-263-03	50.09	13.88	12.78	0.17	10.69	1.05	0.86	0.75	0.75	0.33	9.26	100.62	283	153	8	31	74	1	204
RR-96-264-04	58.72	23.85	5.44	0.02	0.78	0.13	0.10	2.66	0.61	0.01	8.07	100.40	966	25	2	12	137	2	93
RR-96-265-06	53.53	19.14	11.46	1.22	1.54	0.69	0.10	0.97	0.87	0.10	9.67	99.29	217	76	13	31	92	1	187
RR-96-266-05	52.75	15.48	9.64	0.15	6.02	8.40	2.08	1.88	0.70	0.26	2.25	99.61	617	691	16	31	81	1	221
RR-96-267-07	67.37	15.50	3.27	0.08	1.51	1.68	4.48	1.97	0.32	0.12	3.07	99.38	707	460	6	7	80	< 1	63
RR-96-268-05	66.30	16.25	4.39	0.03	1.93	0.84	3.87	2.41	0.46	0.15	3.23	99.84	431	363	7	9	107	< 1	76

ACTLABS

**ACTIVATION
LABORATORIES LTD**

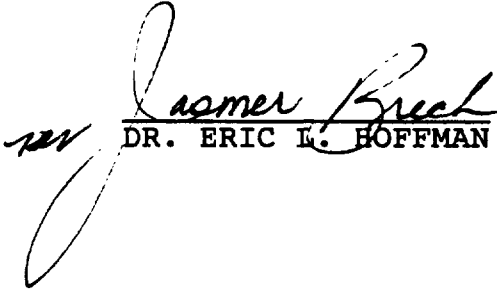
Invoice No.: 10102
Work Order: 10215
Invoice Date: 12-APR-96
Date Submitted: 20-MAR-96
Your Reference: RR-96
Account Number: 756

OVERBURDEN DRILLING MNGT
107-15 CAPELLA COURT
MO, ONTARIO
..2E 7X1
CANADA
ATTENTION: REMY HUNEALT

CERTIFICATE OF ANALYSIS

REPORT 10101 - AU, AS - INAA
10101B - AQUA REGIA - ICP

CERTIFIED BY :


DR. ERIC L. HOFFMAN

Activation Laboratories Ltd. Work Order: 10215 Report: 10102

Sample description	AU PPB	AS PPM	Mass g
RR-96-269-13	<5	<2	21.56
RR-96-270-01	<5	<2	26.34
RR-96-271-03	<5	<2	30.09
RR-96-272-19	7	2	23.07
RR-96-273-07	<5	6	24.73
RR-96-274-04	<5	6	27.56
RR-96-275-02	<5	4	30.86
RR-96-276-09	<5	<2	33.25

ACTLABS

**ACTIVATION
LABORATORIES LTD**

Invoice No.: 10102B
Work Order: 10215
Invoice Date: 09-MAY-96
Date Submitted: 12-APR-96
Your Reference: INV.10102
Account Number: 1553

OVERBURDEN DRILLING MANAGEMENT
107 - 15 CAPELLA COURT
NEPEAN, ON
K2E 7X1

ATTN: REMY HUNEALT

CERTIFICATE OF ANALYSIS

WHOLE ROCK - FUSION ICP

CERTIFIED BY :

per 
DR. ERIC L. HOFFMAN

Activation Laboratories Ltd. Work Order:10215 Report:10102C

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-96-269-13	51.01	22.41	13.35	0.02	0.85	0.92	0.10	0.25	1.14	0.49	9.50	100.04	131	68	24	49	102	2	449
RR-96-270-01	55.95	14.59	10.73	0.08	3.51	4.75	1.48	1.96	0.81	0.31	6.08	100.25	452	665	17	34	78	1	252
RR-96-271-03	69.65	15.87	2.91	0.03	1.26	1.56	6.18	1.40	0.29	0.10	1.70	100.95	590	886	5	6	81	1	54
RR-96-272-19	59.29	17.63	6.12	0.14	2.35	3.68	1.38	2.01	0.56	0.12	6.47	99.74	497	170	10	18	85	< 1	110
RR-96-273-07	64.59	16.55	4.73	0.09	1.73	2.64	3.65	1.87	0.44	0.11	3.80	100.20	470	422	8	11	74	1	92
RR-96-274-04	72.68	14.32	2.06	0.04	0.97	0.92	4.72	2.47	0.18	0.07	1.55	99.98	1008	351	4	5	59	1	42
RR-96-275-02	79.23	9.65	2.41	0.10	1.18	1.60	3.49	0.63	0.19	0.07	1.58	100.14	251	343	5	5	55	< 1	35
RR-96-276-09	49.12	13.62	12.91	0.24	3.10	10.53	2.03	0.59	1.00	0.08	6.21	99.43	132	138	24	36	65	1	275

ACTLABS

**ACTIVATION
LABORATORIES LTD**

Invoice No.: 10222
Work Order: 10299
Invoice Date: 19-APR-96
Date Submitted: 01-APR-96
Your Reference: RR-96
Account Number: 756

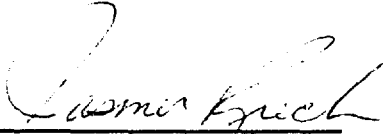
OVERBURDEN DRILLING MNGMT
107-15 CAPELLA COURT
NEPEAN, ONTARIO
A2E 7X1

ATTN: REMY HUNEULT

CERTIFICATE OF ANALYSIS

REPORT 10222 - AU, AS - INAA
10222B - WHOLE ROCK - FUSION - ICP
10222C - AQUA REGIA - ICP

CERTIFIED BY :


DR. ERIC L. HOFFMAN

Activation Laboratories Ltd. Work Order: 10299 Report: 10222

Sample description	AU PPB	AS PPM	Mass g
RR-96-277-07	<5	<2	24.91
RR-96-278-03	<5	<2	27.56
RR-96-279-06	<5	4	27.27
RR-96-280-05	<5	<2	20.01
RR-96-280-06	<5	3	23.18
RR-96-281-05	<5	<2	25.75
RR-96-282-04	<5	<2	27.78
RR-96-283-05	<5	3	33.05
RR-96-284-02	<5	<2	28.74
RR-96-285-06	<5	<2	32.91
RR-96-286-05	<5	<2	27.65
RR-96-287-04	<5	<2	30.46
RR-96-288-04	<5	<2	28.35
RR-96-289-03	<5	<2	25.66
RR-96-290-02	<5	3	27.07
RR-96-291-02	<5	2	26.80
RR-96-292-04	<5	7	31.55
RR-96-293-02	<5	<2	31.01
RR-96-294A-06	<5	<2	28.64
RR-96-295-03	<5	<2	30.35
RR-96-296-04	<5	<2	30.44
RR-96-297-03	<5	2	33.06
RR-96-298-04	<5	<2	27.50
RR-96-299-05	<5	7	25.11
RR-96-300-02	<5	<2	26.91
RR-96-301-06	<5	<2	26.19
RR-96-302-01	<5	<2	30.22
RR-96-303-01	<5	<2	22.33

Activation Laboratories Ltd. Work Order: 10299 Report: 10222B

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-96-277-07	48.49	18.78	13.52	0.16	2.53	1.14	0.09	0.90	0.85	0.07	11.98	98.50	186	89	10	48	57	< 1	202
RR-96-278-03	69.52	14.40	1.86	0.05	0.65	2.12	5.79	3.12	0.19	0.08	2.47	100.23	457	347	11	3	151	< 1	23
RR-96-279-06	47.19	15.51	11.31	0.17	6.54	9.04	1.29	0.19	0.86	0.07	6.84	99.01	235	266	17	33	50	< 1	227
RR-96-280-05	69.30	9.81	9.51	0.46	0.28	0.50	1.53	0.77	0.24	0.11	5.51	98.02	238	220	4	5	67	< 1	38
RR-96-280-06	62.58	11.56	13.55	0.70	1.22	1.02	0.98	1.11	1.47	0.20	6.11	100.49	365	126	27	32	93	1	278
RR-96-281-05	56.50	15.07	14.10	0.19	2.60	0.68	1.03	0.93	1.63	0.17	5.59	98.50	201	150	26	34	84	1	260
RR-96-282-04	43.35	13.95	14.16	0.19	3.68	7.39	1.76	1.17	1.86	0.19	10.32	98.01	237	227	28	35	92	1	317
RR-96-283-05	63.84	14.27	3.40	0.06	1.48	4.01	4.07	1.31	0.35	0.09	6.22	99.09	420	412	5	6	81	< 1	48
RR-96-284-02	65.79	15.21	3.21	0.04	1.15	2.72	4.42	1.11	0.33	0.11	4.22	98.32	430	451	4	6	83	< 1	48
RR-96-285-06	65.61	14.39	3.41	0.12	1.20	3.53	5.08	1.28	0.33	0.10	4.00	99.05	397	423	5	6	82	1	48
RR-96-286-05	64.87	14.31	3.31	0.05	1.43	4.26	4.22	1.27	0.34	0.10	5.23	99.39	385	453	6	6	81	< 1	51
RR-96-287-04	66.54	16.08	3.31	0.05	1.24	3.20	4.25	1.52	0.36	0.09	1.20	97.83	536	613	6	8	91	1	59
RR-96-288-04	66.77	15.81	3.16	0.04	1.22	3.12	4.21	1.95	0.34	0.09	0.95	97.67	673	733	6	7	92	< 1	51
RR-96-289-03	65.78	16.00	4.13	0.06	1.42	2.24	3.06	2.81	0.45	0.13	2.12	98.21	725	417	8	11	101	1	81
RR-96-290-02	66.02	15.82	4.35	0.06	2.21	3.00	3.27	2.33	0.47	0.16	1.42	99.11	568	675	8	12	114	1	88
RR-96-291-02	66.20	16.34	4.22	0.06	1.57	3.09	3.60	2.01	0.48	0.11	1.29	98.96	534	483	8	12	101	< 1	88
RR-96-292-04	64.28	16.39	5.09	0.08	1.61	3.64	2.92	2.45	0.56	0.12	1.46	98.59	418	471	9	14	108	< 1	108
RR-96-293-02	66.76	16.96	3.59	0.03	1.44	2.23	4.80	2.39	0.36	0.09	1.02	99.69	713	461	5	7	89	1	54
RR-96-294A-06	61.87	17.42	6.40	0.07	2.28	2.59	2.72	3.27	0.56	0.14	1.27	98.58	831	561	13	17	106	2	117
RR-96-295-03	65.95	14.86	6.03	0.07	2.62	2.70	3.56	1.99	0.54	0.14	1.09	99.55	634	397	13	13	131	1	97
RR-96-296-04	66.67	16.47	3.16	0.07	1.21	4.73	3.42	2.31	0.43	0.10	1.39	99.95	664	843	8	11	87	1	80
RR-96-297-03	67.77	16.15	3.19	0.05	0.87	3.64	4.58	1.44	0.35	0.11	1.50	99.65	489	608	6	7	83	< 1	54
RR-96-298-04	52.19	15.78	10.66	0.16	5.71	6.82	2.97	2.03	0.81	0.29	2.57	100.00	706	623	18	37	76	1	251
RR-96-299-05	70.24	15.24	3.25	0.04	1.74	1.35	3.93	2.33	0.35	0.16	1.98	100.60	664	549	7	7	111	< 1	55
RR-96-300-02	66.74	14.60	3.72	0.09	1.65	2.75	4.51	1.51	0.37	0.13	3.55	99.61	403	386	7	8	109	< 1	55
RR-96-301-06	66.99	15.01	3.68	0.07	1.54	2.82	4.87	1.47	0.32	0.11	1.92	98.78	570	622	7	9	77	< 1	62
RR-96-302-01	59.09	15.22	5.44	0.11	3.17	7.63	4.16	1.00	0.47	0.14	2.45	98.88	286	764	11	15	89	< 1	97
RR-96-303-01	67.23	15.42	3.81	0.09	1.11	3.22	3.16	2.61	0.38	0.24	2.87	100.11	972	575	10	9	115	1	68

Activation Laboratories Ltd. Work Order No. 10299 Report No. 10222C

SAMPLE	Ag	Cu	Ni	Zn
	ppm	ppm	ppm	ppm
RR-96-277-07	-0.2	113	141	131
RR-96-278-03	0.3	8	5	306
RR-96-279-06	-0.2	116	89	64
RR-96-280-05	-0.2	162	4	45
RR-96-280-06	-0.2	121	38	113
RR-96-281-05	-0.2	46	45	114
RR-96-282-04	-0.2	116	55	107
RR-96-283-05	-0.2	29	13	44
RR-96-284-02	-0.2	6	12	91
RR-96-285-06	-0.2	5	10	97
RR-96-286-05	-0.2	7	13	31
RR-96-287-04	-0.2	18	21	43
RR-96-288-04	-0.2	22	17	48
RR-96-289-03	-0.2	19	35	62
RR-96-290-02	-0.2	36	42	63
RR-96-291-02	-0.2	22	34	58
RR-96-292-04	-0.2	39	41	65
RR-96-293-02	-0.2	15	18	56
RR-96-294A-06	0.2	47	55	86
RR-96-295-03	-0.2	41	53	80
RR-96-296-04	-0.2	9	32	46
RR-96-297-03	0.2	30	22	52
RR-96-298-04	-0.2	61	21	80
RR-96-299-05	-0.2	21	19	46
RR-96-300-02	-0.2	9	20	58
RR-96-301-06	-0.2	21	33	62
RR-96-302-01	0.2	31	48	60
RR-96-303-01	-0.2	36	12	45



ACTIVATION LABORATORIES LTD

Invoice No.: 10237
Work Order: 10342
Invoice Date: 22-APR-96
Date Submitted: 04-APR-96
Your Reference: RR-96
Account Number: N006

VERBURDEN DRILLING MANAGEMENT
107-15 CAPELLA COURT
NEPEAN, ON
K2E 7X1

ATTN: REMY HUNEALT

CERTIFICATE OF ANALYSIS

AU, AS - INAA
10237B - AQUA REGIA - ICP
10237C - WHOLE ROCK - FUSION - ICP

CERTIFIED BY :

Eulpa Alvarez
per DR. ERIC L. HOFFMAN

Activation Laboratories Ltd. Work Order: 10342 Report: 10237

Sample description	AU PPB	AS PPM	Mass g
RR-96-304-03	<5	<2	26.15
RR-96-305-10	8	<2	35.19
RR-96-306-04	<5	<2	27.56
RR-96-307-02	<5	<2	30.35
RR-96-307A-02	<5	<2	30.95
RR-96-308-02	<5	<2	33.98
RR-96-309-01	10	<2	35.03
RR-96-310-02	<5	<2	28.73
RR-96-311-04	<5	<2	27.50
RR-96-312-01	<5	<2	31.58
RR-96-312A-03	<5	<2	29.22
RR-96-313-05	<5	<2	29.35
RR-96-314-01	<5	<2	31.15
RR-96-315-04	<5	<2	27.76
RR-96-316-03	<5	5	34.61
RR-96-316-04	5	<2	28.97
RR-96-317-02	<5	<2	24.98
RR-96-318-03	<5	<2	20.59
RR-96-319-04	<5	<2	22.51
RR-96-320-10	<5	20	31.98

Activation Laboratories Ltd. Work Order No. 10342 Report No. 10237B

SAMPLE	Ag	Cu	Ni	Zn
	ppm	ppm	ppm	ppm
RR-96-304-03	-0.2	11	10	47
RR-96-305-10	-0.2	65	9	23
RR-96-306-04	-0.2	7	13	67
RR-96-307-02	-0.2	33	2	3
RR-96-307A-02	-0.2	52	15	47
RR-96-308-02	-0.2	11	15	30
RR-96-309-01	-0.2	59	14	7
RR-96-310-02	-0.2	4	1	12
RR-96-311-04	-0.2	5	19	41
RR-96-312-01	-0.2	6	22	30
RR-96-312A-03	-0.2	12	27	50
RR-96-313-05	-0.2	34	54	55
RR-96-314-01	-0.2	21	38	51
RR-96-315-04	-0.2	47	15	19
RR-96-316-03	-0.2	136	104	31
RR-96-316-04	-0.2	53	110	42
RR-96-317-02	-0.2	70	86	46
RR-96-318-03	-0.2	37	35	73
RR-96-319-04	-0.2	46	27	119
RR-96-320-10	-0.2	70	46	56

Activation Laboratories Ltd. Work Order: 10342 Report: 10237C

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-96-304-03	66.60	15.91	3.00	0.04	1.29	3.46	5.39	2.13	0.36	0.19	0.90	99.28	970	904	5	5	88	2	52
RR-96-305-10	48.95	12.42	18.09	0.23	5.34	9.22	2.62	0.59	1.41	0.07	0.62	99.56	84	132	20	53	53	2	806
RR-96-306-04	68.46	15.61	1.97	0.04	0.61	2.10	4.49	4.14	0.21	0.09	1.16	98.88	1480	623	4	3	66	2	24
RR-96-307-02	74.08	13.94	1.51	0.02	0.24	2.11	3.66	3.51	0.08	0.04	0.69	99.89	1046	252	5	1	57	< 1	4
RR-96-307A-02	66.68	16.26	3.76	0.05	1.66	3.73	4.78	1.66	0.41	0.15	1.01	100.14	984	798	6	7	100	1	64
RR-96-308-02	67.85	15.85	2.84	0.04	1.24	3.48	5.08	1.77	0.28	0.08	0.45	98.96	785	872	5	5	77	1	46
RR-96-309-01	51.64	14.37	9.93	0.17	8.19	11.39	2.05	0.34	0.45	0.05	1.06	99.62	46	98	12	50	30	< 1	216
RR-96-310-02	75.00	13.53	0.92	0.02	0.35	0.86	4.73	2.46	0.06	0.06	0.60	98.59	798	186	4	1	48	1	< 1
RR-96-311-04	65.85	16.31	2.64	0.03	1.45	3.65	6.07	1.69	0.23	0.12	0.66	98.70	1058	1108	4	5	97	1	42
RR-96-312-01	65.48	16.27	2.97	0.04	1.66	3.55	6.04	1.53	0.29	0.15	1.21	99.20	865	932	4	6	89	< 1	49
RR-96-312A-03	66.07	15.47	3.17	0.07	1.93	3.73	5.31	1.93	0.30	0.17	1.33	99.47	965	948	6	7	93	1	54
RR-96-313-05	63.34	15.65	5.19	0.07	2.88	4.45	5.27	1.19	0.49	0.18	1.69	100.39	331	614	8	14	101	< 1	87
RR-96-314-01	57.33	16.81	8.60	0.13	3.85	7.90	2.92	0.58	0.68	0.10	1.94	100.83	277	540	13	19	62	< 1	130
RR-96-315-04	65.75	9.77	11.44	0.83	0.83	1.04	0.26	0.97	0.64	0.06	7.95	99.52	388	54	8	22	86	1	161
RR-96-316-03	47.97	13.70	10.47	0.18	9.58	10.08	2.23	0.19	0.51	0.03	3.85	98.78	40	126	12	42	24	< 1	203
RR-96-316-04	46.29	12.50	9.05	0.18	8.44	8.97	1.45	0.07	0.49	0.04	10.72	98.19	9	33	12	40	31	< 1	179
RR-96-317-02	45.76	12.18	9.38	0.24	5.23	12.68	2.54	0.14	0.55	0.05	12.19	100.94	52	147	12	33	29	< 1	185
RR-96-318-03	63.31	14.78	3.86	0.45	1.33	3.07	3.09	0.56	0.74	0.19	6.55	97.93	175	277	13	11	136	< 1	96
RR-96-319-04	66.29	14.85	6.00	0.37	1.68	0.58	1.16	1.78	0.51	0.07	5.43	98.70	249	145	12	9	123	< 1	66
RR-96-320-10	49.44	13.98	11.78	0.41	4.18	8.25	0.64	0.30	0.65	0.06	9.30	98.98	168	71	15	47	43	< 1	255

APPENDIX IV

ACTLABS HEAVY MINERAL ANALYSES

Rainy River Project
Work Report
1996 Reverse Circulation Drill Data
Paul Jones, Project Geologist
July 22, 1996

ACTLABS

**ACTIVATION
LABORATORIES LTD**

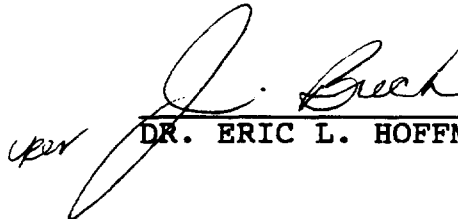
Invoice No.: 9876
Work Order: 10014
Invoice Date: 07-MAR-96
Date Submitted: 21-FEB-96
Your Reference: RR-96
Account Number: 758

OVERBURDEN DRILLING MANAGEMENT
107-15 CAPELLA COURT
NEPEAN, ONTARIO
K2E 7X1
CANADA
ATTN: REMY HUNEALD

CERTIFICATE OF ANALYSIS

REPORT 9876 - AU, AS - INAA
9876B - AQUA REGIA - ICP

CERTIFIED BY :

per 
DR. ERIC L. HOFFMAN

Activation Laboratories Ltd. Work Order: 10014 Report: 9876

Sample description	AU PPB	AS PPM	Mass g
RR-96 212-01	1350	220	66.00
RR-96 213-01	608	290	24.00
RR-96 214-01	525	230	62.00
RR-96 214-02	1160	270	24.00
RR-96 215-01	605	140	66.00
RR-96 215-02	630	350	23.00
RR-96 215-03	902	800	43.00
RR-96 215-04	1350	250	42.00
RR-96 216-01	1330	310	34.00
RR-96 217-01	1160	370	71.00
RR-96 217-02	918	430	61.00
RR-96 217-03	799	480	48.00
RR-96 217-04	810	440	62.00
RR-96 217-05	561	380	59.00
RR-96 218-01	302	280	59.00
RR-96 218-02	274	330	68.00
RR-96 218-03	578	390	33.00
RR-96 219-01	325	500	24.00
RR-96 219-02	1400	470	35.00
RR-96 219A-01	766	390	39.00
RR-96-219A-02	200	440	16.00
RR-96 219A-03	321	530	20.00
RR-96 219A-04	427	520	37.00
RR-96-220-01	336	1000	69.00
RR-96-220-02	285	3300	38.00
RR-96-221-01	313	680	21.00
RR-96-222-01	166	380	62.00
RR-96-223-01	90	350	12.00
RR-96-223-02	174	260	70.00
RR-96-223-03	165	280	66.00
RR-96-223-04	79	210	68.00
RR-96-223-05	140	410	65.00
RR-96-225-01	368	140	63.00
RR-96-225-02	158	180	57.00
RR-96-225-03	101	180	51.00
RR-96-225-04	52	150	49.00
RR-96-225-05	352	130	41.00
RR-96-225-06	93	150	42.00
RR-96-226-01	592	97	33.00
RR-96-226-02	182	110	38.00
RR-96-226-03	114	100	50.00
RR-96-226-04	267	130	51.00
RR-96-226-05	93	220	60.00
RR-96-227-01	73	340	24.00
RR-96-227-02	593	1100	66.00

Activation Laboratories Ltd. Work Order No. 10014 Report No. 9876B

SAMPLE	Ag ppm	Cu ppm	Ni ppm	Zn ppm	Cd ppm	Mn ppm	Pb ppm
RR-96-227-02	0.5	92	203	167	-0.5	813	33
RR-96-227-03	0.7	157	100	54	-0.5	904	22
RR-96-227-04	0.6	152	95	46	-0.5	1270	30
RR-96-227-05	0.4	122	81	49	-0.5	798	19
RR-96-227-06	0.5	258	200	266	-0.5	1340	40
RR-96-227-07	1.0	407	176	92	-0.5	994	43
RR-96-228-01	0.9	248	86	50	-0.5	1110	31
RR-96-228-02	0.8	172	69	130	-0.5	932	21
RR-96-228-03	1.9	153	73	32	-0.5	1160	22
RR-96-228-04	0.7	187	155	43	-0.5	967	32
RR-96-229-01	-0.2	63	178	296	-0.5	278	43
RR-96-229-02	0.7	99	97	235	-0.5	671	28
RR-96-229-03	1.4	145	111	530	-0.5	853	48
RR-96-229-04	0.8	214	138	130	-0.5	1640	30
RR-96-229-05	0.9	268	211	367	-0.5	1230	34
RR-96-230-01	2.9	136	152	224	-0.5	2130	64
RR-96-230-01A	3.0	119	129	563	-0.5	1500	72
RR-96-230-02A	3.1	171	141	217	-0.5	1230	57
RR-96-231-01	2.4	124	132	451	-0.5	1900	69
RR-96-231-02	2.6	156	157	1420	-0.5	1870	320
RR-96-232-01	3.5	216	127	295	-0.5	2080	90
RR-96-232-02	1.9	218	129	232	-0.5	2010	38
RR-96-232-03	2.0	149	128	166	-0.5	2600	42
RR-96-233-01	2.0	144	91	210	-0.5	1740	34
RR-96-233-02	2.4	152	121	192	-0.5	1740	41
RR-96-233-03	2.3	161	124	228	-0.5	1570	41
RR-96-233-04	1.1	156	136	124	-0.5	1040	44
RR-96-234-01	1.7	400	130	114	-0.5	5920	32
RR-96-234-02	1.6	453	140	114	-0.5	7950	50
RR-96-234-03	1.2	311	93	107	-0.5	7490	32

ACTLABS

**ACTIVATION
LABORATORIES LTD**

Invoice No.: 10011
Work Order: 10090
Invoice Date: 02-APR-96
Date Submitted: 04-MAR-96
Your Reference: RR-96
Account Number: 756

OVERBURDEN DRILLING
107-15 CAPELLA COURT
NAPEAN, ONTARIO
K2E 7X1
CANADA
ATTENTION: REMY HUNEALUT

CERTIFICATE OF ANALYSIS

AU, AS - INAA
10011B - AQUA REGIA - ICP

CERTIFIED BY :

pel Sulora Alvarez
DR. ERIC L. HOFFMAN

Activation Laboratories Ltd. Work Order: 10090 Report: 10011

Sample description	AU PPB	AS PPM	Mass g
RR-96-235-01	50	130	28.00
RR-96-235-02	54	100	63.00
RR-96-235-03	34	46	44.00
RR-96-236-01	<6	<2	7.000
RR-96-236-01B	<5	<2	15.00
RR-96-237-01	113	30	31.00
RR-96-238-01	77	65	33.00
RR-96-239-01	210	41	61.00
RR-96-239-02	120	34	59.00
RR-96-239-03	220	31	65.00
RR-96-240-01	69	68	63.00
RR-96-240-02	29	75	15.00
RR-96-241-01	63	3	51.00
RR-96-241-02	65	36	60.00
RR-96-242-01	344	25	49.00
RR-96-243-01	<5	<2	23.00
RR-96-243B-01	73	8	9.000
RR-96-244-01	374	28	58.00
RR-96-244-02	93	30	55.00
RR-96-244-03	124	27	57.00
RR-96-246-01	22	40	41.00
RR-96-246-02	95	49	42.00
RR-96-246-03	23	59	7.000
RR-96-246-04	21	25	46.00
RR-96-247-01	381	82	29.00
RR-96-247-02	92	55	63.00
RR-96-247-03	98	75	59.00

Activation Laboratories Ltd. Work Order No. 10090 Report No. 10011B

SAMPLE	Ag	Cd	Cu	Mn	Ni	Pb	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RR-96-235-01	13.4	2.1	4920	20500	100	64	160
RR-96-235-02	5.1	1.8	3850	13400	113	36	126
RR-96-235-03	3.6	1.9	907	15100	72	39	152
RR-96-236-01	0.6	0.5	15	499	42	16	34
RR-96-236-01B	1.1	-0.5	171	845	16	25	23
RR-96-237-01	1.3	0.9	457	1160	81	34	37
RR-96-238-01	1.2	-0.5	418	1030	64	4	44
RR-96-239-01	1.2	0.7	442	859	73	8	73
RR-96-239-02	1.8	-0.5	578	1150	65	4	81
RR-96-239-03	1.2	1.0	457	971	68	8	80
RR-96-240-01	0.8	1.4	207	680	91	13	105
RR-96-240-02	1.1	1.6	520	1300	202	22	178
RR-96-241-01	0.8	0.5	29	410	28	9	23
RR-96-241-02	0.9	0.6	114	638	48	7	17
RR-96-242-01	2.5	-0.5	188	1150	75	34	22
RR-96-243-01	1.4	-0.5	114	765	14	-2	29
RR-96-243B-01	1.8	-0.5	41	1080	20	6	25
RR-96-244-01	1.4	-0.5	522	1220	60	4	82
RR-96-244-02	1.2	-0.5	460	947	62	7	56
RR-96-244-03	0.9	-0.5	240	2030	42	13	34
RR-96-246-01	1.6	-0.5	345	1370	80	3	56
RR-96-246-02	1.5	-0.5	258	1300	61	10	42
RR-96-246-03	7.4	1.0	2020	15300	105	27	157
RR-96-246-04	3.9	1.2	1140	18200	53	15	127
RR-96-247-01	1.2	0.6	336	904	60	5	66
RR-96-247-02	1	0.7	388	800	58	3	69
RR-96-247-03	1	0.8	222	672	50	4	40

ACTLABS

**ACTIVATION
LABORATORIES LTD**

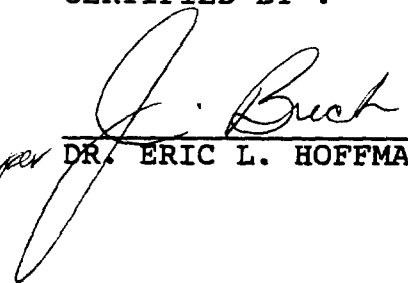
Invoice No.: 9748
Work Order: 9803
Invoice Date: 19-FEB-96
Date Submitted: 22-JAN-96
Your Reference: PO#574
Account Number: 758

OVERBURDEN DRILLING MNGT LTD
107-15 CAPELLA COURT
NEPEAN, ONTARIO
K2E 7X1
CANADA
ATTENTION: STU AVERILL

CERTIFICATE OF ANALYSIS

NI - AQUA REGIA - ICP

CERTIFIED BY :


DR. ERIC L. HOFFMAN

Activation Laboratories Ltd. Work Order No. 9803 Report No. 9748

SAMPLE	Ni ppm
RR-95-07-01	58
RR-95-07-02	35
RR-95-07-03	119
RR-95-07-04	70
RR-95-07-05	50
RR-95-07-06	32
RR-95-07-07	21
RR-95-07-08	20
RR-95-07-09	23
RR-95-07-10	20
RR-95-07-11	60
RR-95-07-12	130
RR-95-07-13	140
RR-95-07-14	130
RR-95-08-01	50
RR-95-08-02	60
RR-95-08-03	60
RR-95-08-04	50
RR-95-08-05	50
RR-95-08-06	80
RR-95-08-07	30
RR-95-08-08	90
RR-95-08-09	80
RR-95-08-10	220
RR-95-08-11	190
RR-95-08-12	190
RR-95-09-01	120
RR-95-09-02	80
RR-95-09-03	30
RR-95-09-04	50
RR-95-09-05	60
RR-95-09-06	60
RR-95-09-07	60
RR-95-09-08	70
RR-95-09-09	60
RR-95-09-10	790
RR-95-09-11	80
RR-95-09-12	70
RR-95-09-13	80
RR-95-09-14	67
RR-95-09-15	105
RR-95-09-16	76
RR-95-09-17	120
RR-95-09-18	123
RR-95-09-19	81

Activation Laboratories Ltd. Work Order No. 9803 Report No. 9748

SAMPLE	Ni
	ppm
RR-95-09-20	62
RR-95-10-01	104
RR-95-10-02	69
RR-95-10-03	67
RR-95-10-04	12
RR-95-10-05	83
RR-95-14-01	72
RR-95-14-02	72
RR-95-14-03	90
RR-95-14-04	80
RR-95-14-05	77
RR-95-14-06	80
RR-95-14-07	88
RR-95-14-08	83
RR-95-14-09	79
RR-95-15-01	83
RR-95-15-02	68
RR-95-15-03	50
RR-95-15-04	37
RR-95-15-05	34
RR-95-16-01	63
RR-95-16-02	86
RR-95-16-03	81
RR-95-16-04	86
RR-95-16-05	66
RR-95-16-06	37
RR-95-16-07	32
RR-95-16-08	71
RR-95-16-09	42
RR-95-16-10	44
RR-95-16-11	38
RR-95-16-12	57
RR-95-17-01	57
RR-95-18-01	51
RR-95-18-02	53
RR-95-18-03	48
RR-95-18-04	49
RR-95-19-01	58
RR-95-19-02	45
RR-95-19-03	42
RR-95-19-04	44
RR-95-19-05	31
RR-95-25-01	192
RR-95-26-01	71
RR-95-26-02	60

Activation Laboratories Ltd. Work Order No. 9803 Report No. 9748

SAMPLE	Ni ppm
RR-95-26-03	84
RR-95-26-04	60
RR-95-26-05	58
RR-95-26-06	53
RR-95-26-07	51
RR-95-26-08	59
RR-95-27-01	89
RR-95-27-02	38
RR-95-27-03	43
RR-95-27-04	30
RR-95-27-05	36
RR-95-27-06	31
RR-95-27-07	40
RR-95-27-08	49
RR-95-27-09	50
RR-95-33-01	103
RR-95-33-02	94
RR-95-33-03	117
RR-95-33-04	117
RR-95-34-01	83
RR-95-34-02	73
RR-95-34-03	68
RR-95-35-02	94
RR-95-35-03	93
RR-95-35-04	74
RR-95-35-05	90
RR-95-35-06	89
RR-95-35-07	58
RR-95-47-02	77
RR-95-47-03	67
RR-95-48-01	79
RR-95-48-02	55
RR-95-48-03	54
RR-95-54-01	137
RR-95-54-02	159
RR-95-55-01	91
RR-95-55-02	92
RR-95-55-03	72
RR-95-56-01	93
RR-95-56-02	51
RR-95-56-03	6
RR-95-56-04	119
RR-95-56-05	206
RR-95-57-01	60
RR-95-57-02	59

Activation Laboratories Ltd. Work Order No. 9803 Report No. 9748

SAMPLE	Ni ppm
RR-95-57-03	59
RR-95-57-04	50
RR-95-58-01	67
RR-95-58-02	82
RR-95-58-03	72
RR-95-58-04	60
RR-95-58-05	55
RR-95-58-06	77
RR-95-58A-01	64
RR-95-58A-02	71
RR-95-59-01	60
RR-95-59-02	30
RR-95-59-03	34
RR-95-59-04	37
RR-95-65-01	119
RR-95-65-02	165
RR-95-66-01	126
RR-95-66-02	158
RR-95-67-01	50
RR-95-67-02	55
RR-95-76-01	86
RR-95-76-02	73
RR-95-76-03	68
RR-95-76-04	78
RR-95-76-05	72
RR-95-77-01	65
RR-95-77-02	64
RR-95-77-03	71
RR-95-77-04	45
RR-95-77-05	76
RR-95-77-06	55
RR-95-78-01	80
RR-95-78-02	91
RR-95-78-03	160
RR-95-78-04	107
RR-95-78-05	75
RR-95-79-01	47
RR-95-79-02	37
RR-95-79-03	57
RR-95-79-04	44
RR-95-79-05	31
RR-95-80-01	33
RR-95-97-01	48
RR-95-97-02	22
RR-95-98-01	52

Activation Laboratories Ltd. Work Order No. 9803 Report No. 9748

SAMPLE	Ni ppm
RR-95-104-01	22
RR-95-104-02	22
RR-95-105-01	33
RR-95-105-02	16
RR-95-105-03	26
RR-95-116-01	75
RR-95-116-02	43
RR-95-116-03	42
RR-95-116-04	74
RR-95-117-01	30
RR-95-117-02	27
RR-95-117-03	17
RR-95-117-04	63
RR-95-117-05	65
RR-95-117-06	77
RR-95-117-07	119
RR-95-118-01	125
RR-95-119-01	56
RR-95-141-01	49
RR-95-141-02	48
RR-95-141-03	31
RR-95-141-04	51
RR-95-141-05	37
RR-95-141-06	44
RR-95-141-07	40
RR-95-141-08	44
RR-95-141-09	26
RR-95-141-10	90
RR-95-142-01	45
RR-95-142-02	45
RR-95-142-03	42
RR-95-142-04	38
RR-95-142-05	41
RR-95-142-06	40
RR-95-142-07	37
RR-95-142-08	53
RR-95-142-09	34
RR-95-143-01	54
RR-95-143-02	52
RR-95-144-01	46
RR-95-144-02	82
RR-95-144-03	56
RR-95-144-04	31
RR-95-145-01	35
RR-95-145-02	35

Activation Laboratories Ltd. Work Order No. 9803 Report No. 9748

SAMPLE	Ni ppm
RR-95-145-03	74
RR-95-145-04	45
RR-95-146-01	44
RR-95-146-02	42
RR-95-146-03	11
RR-95-146-04	11
RR-95-146-05	15
RR-95-146-06	34
RR-95-146-07	34
RR-95-158-01	43
RR-95-159-01	26
RR-95-163-01	25
RR-95-163-02	21
RR-95-163-03	12
RR-95-163-04	18
RR-95-163-05	27
RR-95-163-06	10
RR-95-163-07	25
RR-95-164-01	14
RR-95-164-02	20
RR-95-164-03	13
RR-95-165-01	26
RR-95-165-02	30
RR-95-165-03	22
RR-95-165-04	12
RR-95-168-01	36
RR-95-168-02	24
RR-95-168-03	20
RR-95-168-04	26
RR-95-168-05	22
RR-95-168-06	22
RR-95-168-07	66
RR-95-168-08	27
RR-95-168-09	21
RR-95-168-10	18
RR-95-168-11	28
RR-95-168-12	12
RR-95-169-01	23
RR-95-169-02	18
RR-95-169-03	21
RR-95-169-04	18
RR-95-169-05	63
RR-95-172-01	29
RR-95-172-02	32
RR-95-173-01	23

Activation Laboratories Ltd. Work Order No. 9803 Report No. 9748

SAMPLE	Ni ppm
RR-95-173-02	50
RR-95-174-01	31
RR-95-174-02	30
RR-95-174-03	48
RR-95-174-04	21
RR-95-174-05	19
RR-95-175-01	39
RR-95-175-02	36
RR-95-175-03	33
RR-95-175-04	30
RR-95-175-05	28
RR-95-175-06	29
RR-95-175-07	25
RR-95-176-01	32
RR-95-176-02	34
RR-95-176-03	44
RR-95-176-04	24
RR-95-176-05	29
RR-95-176-06	30
RR-95-177-01	26
RR-95-177-02	35
RR-95-177-03	39
RR-95-177-04	28
RR-95-178-01	69
RR-95-178-02	65
RR-95-178-03	57
RR-95-179-01	31
RR-95-179-02	39
RR-95-180-01	34
RR-95-180-02	29
RR-95-180-03	29
RR-95-180-04	32
RR-95-180-05	27
RR-95-184-01	363
RR-95-185-01	57
RR-95-185-02	62
RR-95-185-03	47
RR-95-185-04	53
RR-95-185-05	49
RR-95-185-06	78
RR-95-185-07	46
RR-95-185-08	48
RR-95-186-01	85
RR-95-187-01	41
RR-95-187-02	36

Activation Laboratories Ltd. Work Order No. 9803 Report No. 9748

SAMPLE	Ni ppm
RR-95-187-03	37
RR-95-199-01	50
RR-95-199-02	101
RR-95-199-03	79
RR-95-199-04	76
RR-95-199-05	87
RR-95-202-01	64
RR-95-202-02	80

ACTLABS

**ACTIVATION
LABORATORIES LTD**

Invoice No.: 10214
Work Order: 10298
Invoice Date: 17-APR-96
Date Submitted: 01-APR-96
Your Reference: RR-96
Account Number: 756

OVERBURDEN DRILLING MNGT LTD.
107-15 CAPELLA COURT
NEPEAN, ONTARIO
K2E 7X1
CANADA
ATTENTION: MR. STU AVERILL

CERTIFICATE OF ANALYSIS

1U, AS - INAA
.0214B - AQUA REGIA - ICP

CERTIFIED BY :

pel
Sylvia Alvarez
DR. ERIC L. HOFFMAN

Activation Laboratories Ltd. Work Order: 10298 Report: 10214

Sample description	AU PPB	AS PPM	Mass g
RR-96 269-06	1340	240	52.00
RR-96 269-07	727	220	61.00
RR-96 269-08	1030	470	32.00
RR-96 269-09	420	180	44.00
RR-96 269-10	850	210	66.00
RR-96 269-11	407	150	60.00
RR-96 269-12	690	230	27.00
RR-96 271-01	648	190	48.00
RR-96 271-02	1210	290	30.00
RR-96 272-01	170	82	59.00
RR-96 272-02	1120	26	40.00
RR-96 272-03	177	54	49.00
RR-96 272-04	328	140	40.00
RR-96 272-05	652	100	15.00
RR-96 272-06	3580	160	16.00
RR-96 272-07	312	100	15.00
RR-96 272-08	515	170	10.00
RR-96 272-09	250	110	22.00
RR-96 272-10	168	81	26.00
RR-96 272-11	322	70	31.00
RR-96 272-12	401	170	34.00
RR-96 272-13	234	87	39.00
RR-96 272-14	681	130	22.00
RR-96 272-15	98	110	30.00
RR-96 272-16	137	42	48.00
RR-96 272-17	1270	160	28.00
RR-96 272-18	769	160	29.00
RR-96 273-01	299	270	25.00
RR-96 273-02	337	140	29.00
RR-96 273-03	153	160	8.000
RR-96 273-04	2430	300	6.000
RR-96 273-05	471	130	24.00
RR-96 273-06	1180	95	10.00
RR-96 274-01	397	150	43.00
RR-96 274-02	659	170	44.00
RR-96 274-03	858	180	47.00
RR-96 275-01	237	83	24.00
RR-96 276-01	374	130	50.00
RR-96 276-02	329	110	54.00
RR-96 276-03	927	150	59.00
RR-96 276-04	650	150	57.00
RR-96 276-05	1940	170	58.00
RR-96 276-06	422	180	55.00
RR-96 276-07	1580	200	62.00
RR-96 276-08	1310	260	65.00

Activation Laboratories Ltd. Work Order: 10298 Report: 10214

Sample description	AU PPB	AS PPM	Mass g
RR-96 277-01	188	71	54.00
RR-96 277-02	151	64	58.00
RR-96 277-03	172	67	39.00
RR-96 277-04	231	69	47.00
RR-96 277-05	229	110	44.00
RR-96 277-06	267	100	39.00
RR-96 278-01	169	44	56.00

Activation Laboratories Ltd. Work Order No. 10298 Report No. 10214B

SAMPLE	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Sc	Sn	Sr	Ti	V	W	Y	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
RR-96 269-06	3.4	1.8	664	3590	3	117	37	463	0.58	244	11	-1	-10	0.96	254	48	13.70	0.02	0.23	0.03	978	-5	10	-10	59	0.74	109	-10	14	15
RR-96 269-07	3.8	-0.5	909	6200	4	127	52	315	0.64	326	8	-1	-10	0.80	299	55	15.50	0.03	0.27	0.04	669	10	11	-10	46	0.47	121	-10	9	18
RR-96 269-08	3.4	1.1	1300	7120	3	126	56	401	0.35	371	6	-1	-10	0.51	286	41	15.80	0.02	0.20	0.02	583	18	10	-10	29	0.25	89	-10	5	11
RR-96 269-09	2.8	1.6	604	5410	5	99	44	392	0.77	206	16	-1	-10	1.05	169	153	13.80	0.03	0.27	0.04	908	-5	13	-10	81	0.72	201	-10	17	18
RR-96 269-10	121	2.2	922	6880	3	117	55	498	0.47	284	9	-1	-10	0.81	236	52	14.80	0.02	0.23	0.02	892	-5	11	-10	50	0.55	123	-10	13	13
RR-96 269-11	1.7	2.1	619	6950	3	75	34	418	0.87	141	23	-1	-10	1.32	138	60	12.20	0.03	0.31	0.03	979	-5	15	-10	94	0.77	130	-10	21	13
RR-96 269-12	2.5	1.2	727	11000	3	90	44	253	0.64	289	9	-1	-10	0.97	209	42	14.10	0.05	0.38	0.03	656	6	17	-10	43	0.50	111	-10	19	11
RR-96 271-01	3.1	2.8	903	7188	4	127	47	313	0.82	222	30	-1	-10	1.35	276	59	18.40	0.03	0.30	0.03	736	-5	12	-10	92	0.80	116	-10	28	21
RR-96 271-02	3.4	0.6	2680	5690	4	122	105	387	0.48	232	6	-1	-10	0.79	337	41	14.70	0.02	0.22	0.02	761	6	10	-10	53	0.40	116	-10	11	22
RR-96 272-01	1.8	0.9	1630	3960	2	70	13	99	1.17	102	20	-1	-10	1.78	123	71	9.64	0.03	0.29	0.04	1210	-5	16	-10	133	1.61	155	-10	33	24
RR-96 272-02	0.4	-0.5	218	1690	2	29	6	49	1.04	40	14	-1	34	1.43	39	84	7.91	0.02	0.24	0.03	915	-5	13	-10	98	1.39	165	-10	27	17
RR-96 272-03	1.0	1.0	323	3831	5	54	-2	83	1.90	96	19	-1	50	2.50	107	131	13.10	0.03	0.40	0.06	821	-5	23	-10	172	2.56	260	-10	45	42
RR-96 272-04	0.8	1.1	417	6620	2	78	13	98	0.72	153	16	-1	-10	1.02	216	55	11.20	0.02	0.30	0.02	484	-5	12	-10	43	0.99	131	-10	23	10
RR-96 272-05	0.6	0.7	518	6190	6	76	15	104	1.31	149	18	-1	13	1.64	169	77	11.40	0.03	0.37	0.04	455	-5	18	-10	89	2.01	182	-10	35	22
RR-96 272-06	0.9	-0.5	442	2540	3	91	16	90	0.73	247	15	-1	10	0.86	226	83	12.00	0.02	0.23	0.02	360	-5	10	-10	42	1.49	165	-10	21	14
RR-96 272-07	0.8	0.7	594	3020	3	86	12	90	0.75	169	17	-1	13	1.01	194	85	11.10	0.02	0.25	0.02	447	-5	10	-10	49	1.45	162	-10	23	16
RR-96 272-08	0.9	0.9	575	2530	3	95	8	104	0.82	229	16	-1	14	1.10	201	91	10.90	0.02	0.22	0.03	437	-5	11	-10	67	1.86	157	-10	27	20
RR-96 272-09	0.6	0.7	310	2730	2	59	-2	67	0.88	83	16	-1	28	1.24	135	71	9.12	0.02	0.27	0.03	365	-5	10	-10	67	1.89	139	-10	25	13
RR-96 272-10	1.4	-0.5	298	2240	2	57	-2	60	0.88	79	15	-1	40	1.31	112	57	8.38	0.02	0.25	0.03	355	-5	10	-10	75	1.86	122	-10	27	14
RR-96 272-11	0.6	-0.5	221	3020	2	57	5	52	1.28	104	16	-1	33	1.76	99	67	8.75	0.02	0.30	0.04	367	-5	15	-10	116	1.97	145	-10	34	17
RR-96 272-12	0.7	-0.5	131	2440	2	57	-2	42	1.01	129	15	-1	28	1.28	138	65	9.29	0.02	0.24	0.03	498	-5	14	-10	80	1.80	130	-10	31	20
RR-96 272-13	0.5	-0.5	135	3060	3	58	-2	60	1.43	108	18	-1	29	1.85	95	73	8.80	0.02	0.34	0.04	435	-5	17	-10	114	1.94	148	-10	38	17
RR-96 272-14	0.6	0.6	271	2280	5	74	-2	51	0.70	138	16	-1	29	0.97	128	60	9.07	0.02	0.24	0.02	400	-5	9	-10	47	1.61	113	-10	20	13
RR-96 272-15	0.7	-0.5	218	2470	4	54	-2	44	0.79	128	15	-1	26	1.16	105	71	8.76	0.02	0.23	0.02	527	-5	10	-10	68	1.63	127	-10	26	17
RR-96 272-16	0.8	0.6	272	18400	2	42	64	96	0.87	49	41	1	-10	1.68	82	38	10.50	0.05	0.52	0.03	518	-5	16	-10	74	0.92	95	-10	53	13
RR-96 272-17	1.7	-0.5	911	8960	2	69	49	135	0.86	169	24	-1	-10	1.46	177	54	10.70	0.03	0.34	0.03	823	-5	15	-10	79	1.25	108	-10	35	16
RR-96 272-18	5.9	0.8	583	12300	2	60	59	122	0.86	104	31	-1	-10	1.46	116	55	10.90	0.04	0.40	0.03	612	-5	16	-10	74	1.09	111	-10	38	13
RR-96 273-01	3.3	-0.5	3260	6180	3	124	37	174	0.62	216	10	-1	-10	0.86	368	42	14.40	0.02	0.28	0.02	509	-5	11	-10	37	0.67	122	-10	18	11
RR-96 273-02	0.7	-0.5	846	2800	13	76	11	58	0.75	173	16	-1	-10	0.92	137	44	11.60	0.03	0.32	0.03	515	-5	9	-10	40	1.26	107	-10	20	10
RR-96 273-03	1.2	0.6	1100	3950	3	106	26	67	0.76	198	14	-1	-10	0.95	241	55	12.20	0.02	0.27	0.02	536	-5	12	-10	45	1.02	118	-10	27	15
RR-96 273-04	1.1	1.1	825	3790	3	103	23	95	0.69	235	17	-1	-10	0.85	243	65	12.30	0.02	0.25	0.02	461	-5	11	-10	40	0.79	144	-10	25	12
RR-96 273-05	1.0	0.6	640	7640	4	76	23	94	0.69	99	24	-1	-10	1.16	150	47	10.30	0.03	0.33	0.02	601	-5	13	-10	53	0.83	108	-10	31	11
RR-96 273-06	3.5	2.2	620	12800	3	70	48	85	1.01	89	38	1	19	1.91	112	48	10.00	0.04	0.39	0.03	1110	-5	20	-10	113	1.41	111	-10	64	20
RR-96 274-01	2.5	2.3	1650	3460	2	108	154	139	0.50	153	14	-1	-10	1.00	271	46	12.10	0.02	0.23	0.02	1060	-5	8	-10	51	0.58	101	-10	15	11
RR-96 274-02	1.5	0.8	1070	5870	3	110	38	227	0.58	184	11	-1	-10	0.96	312	52	14.00	0.02	0.25	0.02	531	-5	9	-10	47	0.68	128	-10	15	11
RR-96 274-03	1.4	0.6	926	5210	3	104	35	224	0.52	201	16	-1	-10	0.86	247	90	13.70	0.02	0.24	0.02	720	-5	9	-10	44	0.52	172	-10	16	11
RR-96 275-01	1.3	0.8	1060	4240	2	87	12	69	0.90	77	27	-1	11	1.70	231	49	10.40	0.02	0.30	0.03	935	-5	12	-10	102	1.34	128	-10	27	14
RR-96 276-01	1.0	0.6	486	2110	2	64	3	116	1.27	127	17	-1	19	1.93	182	69	9.94	0.02	0.26	0.04	751	-5	16	-10	137	1.75	139	-10	41	21
RR-96 276-02	0.9	-0.5	427	1960	2	64	3	95	0.93	129	13	-1	18	1.46	180	64	9.81	0.02	0.23	0.03	734	-5	12	-10	94	1.45	137	-10	31	16
RR-96 276-03	1.1	-0.5	411	2360	2	82	-2	158	0.86	200	13	-1	27	1.27	291	43	11.10	0.02	0.25	0.02	456	-5	11	-10	68	1.59	103	-10	29	13
RR-96 276-04	1.3	0.6	1300	1960	2	78	-2	102	0.73	148	13	-1	-10	1.16	279	50	10.60	0.02	0.22	0.03	441	-5	9	-10	62	1.56	119	-10	24	11
RR-96 276-05	2.2	1.1	350	1920	2	80	21	269	0.83	209	15	-1	-10	1.36	181	66	11.30	0.02	0.22	0.03	950	-5	10	-10	97	1.13	112	-10	26	13
RR-96 276-06	2.0	2.1	354	2280	3	88	25	379	0.82	185	17	-1	-10	1.39	172	61	11.60	0.02	0.23	0.03	1340	-5	9	-10	108	0.87	94	-10	26	14
RR-96 276-07	4.2	2.6	597	1750	2	98	52	432	0.52	230	10	-1	-10	0.85	242	35	13.30	0.02	0.18	0.02	601	-5	6	-10	53	0.51	79	-10	14	9
RR-96 276-08	4.0	2.5	586	1770	2	115	78	465	0.52	320	7	-1	-10	0.77	298	42	13.80	0.02	0.18	0.03	534	-5	6	-10	50	0.73	84	-10	11	10

Activation Laboratories Ltd. Work Order No. 10298 Report No. 10214B

SAMPLE	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	Ba	Be	Bi	Ca	Co	Cr	Fe	K	Mg	Na	P	Sb	Sc	Sn	Sr	Ti	V	W	Y	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
RR-96 277-01	0.6	-0.5	269	2540	2	48	-2	56	1.17	82	14	-1	26	1.74	98	63	8.28	0.02	0.27	0.04	794	-5	15	-10	117	1.57	124	-10	38	17
RR-96 277-02	0.5	0.6	244	1260	2	47	6	49	0.85	84	13	-1	-10	1.35	108	66	8.08	0.02	0.21	0.03	1100	-5	11	-10	92	0.71	113	-10	28	14
RR-96 277-03	0.5	1.3	336	1130	2	50	9	62	0.81	49	13	-1	-10	1.27	111	90	9.30	0.02	0.19	0.03	915	-5	10	-10	88	0.80	153	-10	27	16
RR-96 277-04	1.0	-0.5	397	2310	2	50	-2	61	1.03	73	15	-1	18	1.59	105	47	7.83	0.03	0.32	0.04	697	-5	11	-10	89	1.19	99	-10	32	10
RR-96 277-05	0.6	0.8	357	2920	2	53	-2	66	0.89	181	22	-1	17	1.41	109	56	8.25	0.02	0.24	0.03	1010	-5	12	-10	90	1.33	107	-10	31	14
RR-96 277-06	0.6	-0.5	455	2840	5	64	9	55	0.96	86	33	-1	14	1.45	103	61	8.53	0.02	0.25	0.04	916	-5	12	-10	96	1.17	112	-10	31	14
RR-96 278-01	1.0	-0.5	266	1250	-2	63	-2	61	1.02	62	17	-1	21	1.61	98	51	7.39	0.04	0.32	0.04	956	-5	12	-10	97	1.16	97	-10	28	10

Activation Laboratories Ltd. Work Order: 10214 Report: 10101

Sample description	AU PPB	AS PPM	Mass g
247-04	160	79	51.00
248-01	61	41	64.00
248-02	58	54	66.00
248-03	118	180	25.00
249-01	242	92	36.00
249-02	496	160	39.00
250-01	41	34	60.00
250-02	57	45	47.00
250-03	200	51	54.00
251-01	449	100	21.00
251-02	120	57	57.00
251-03	217	63	42.00
251-04	18	77	6.000
253-01	302	73	11.00
254-01	259	160	35.00
255-01	210	65	63.00
255-02	122	90	28.00
255-03	26	90	57.00
256-01	171	140	26.00
256-02	29	84	3.000
257-01	124	53	50.00
257-02	205	150	19.00
257-03	594	200	10.00
257-04	292	100	29.00
258-01	207	73	37.00
260-01	680	55	9.000
261-01	162	68	58.00
261-02	650	110	40.00
261-03	267	120	54.00
261-04	400	110	57.00
261-05	105	130	59.00
262-01	302	120	35.00
262-02	197	150	29.00
262-03	252	110	31.00
262-04	156	110	24.00
262-05	196	100	41.00
262-06	111	92	40.00
262-07	20	50	14.00
263-01	97	120	37.00
264-01	84	130	42.00
264-02	91	71	61.00
264-03	20	85	51.00
265-01	81	82	15.00
265-02	42	120	28.00
265-03	23	99	6.000

Activation Laboratories Ltd. Work Order: 10214 Report: 10101

Sample description	AU PPB	AS PPM	Mass g
265-04	100	94	15.00
265-05	6	39	15.00
266-01	155	140	15.00
266-02	549	100	36.00
266-03	373	140	18.00
266-04	1400	140	7.000
267-01	449	150	70.00
267-02	675	210	35.00
267-03	674	200	60.00
267-04	494	190	51.00
267-05	112	53	18.00
267-06	650	150	3.500
268-01	341	120	31.00
268-02	2890	150	32.00
268-03	1970	360	52.00
268-04	1230	300	65.00
269-01	638	110	44.00
269-02	325	140	55.00
269-03	738	300	38.00
269-04	253	110	58.00
269-05	776	340	56.00

Activation Laboratories Ltd. Work Order No. 10214 Report No. 10101B

SAMPLE	Ag	Cd	Cu	Mn	Ni	Pb	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RR-96-247-04	0.4	1.4	308	763	69	12	56
RR-96-248-01	0.4	2.0	436	1220	78	12	214
RR-96-248-02	0.5	4.3	653	2710	97	17	246
RR-96-248-03	2.1	6.8	1560	11200	320	49	203
RR-96-249-01	0.7	1.7	809	1210	100	15	72
RR-96-249-02	0.5	2.4	569	1020	118	34	81
RR-96-250-01	0.4	1.6	374	1650	57	15	66
RR-96-250-02	0.5	2.2	474	1280	61	8	58
RR-96-250-03	0.5	2.2	400	1160	60	10	53
RR-96-251-01	1.0	1.6	1300	11600	84	34	103
RR-96-251-02	0.8	1.9	1030	4640	71	19	80
RR-96-251-03	8.5	1.8	881	4790	72	43	74
RR-96-251-04	0.6	8.2	908	2610	53	38	61
RR-96-253-01	1.8	2.4	417	1600	60	23	131
RR-96-254-01	0.9	2.9	2940	5210	98	23	141
RR-96-255-01	1.0	2.1	1040	4940	75	18	132
RR-96-255-02	1.0	2.0	1110	2780	94	16	73
RR-96-255-03	0.4	2.0	1820	780	61	-2	27
RR-96-256-01	1.4	3.5	4360	3090	120	46	148
RR-96-256-02	25.0	2.5	4630	1250	72	24	100
RR-96-257-01	0.5	2.0	622	1770	74	14	53
RR-96-257-02	1.6	1.7	928	2630	111	13	68
RR-96-257-03	1.6	2.2	879	2570	186	11	70
RR-96-257-04	1.3	1.9	829	1010	165	12	138
RR-96-258-01	0.5	1.5	673	889	104	7	74
RR-96-260-01	0.6	1.4	765	1240	48	54	107
RR-96-261-01	0.5	1.6	343	1560	64	16	55
RR-96-261-02	0.9	2.1	343	1160	76	20	66
RR-96-261-03	1.1	1.4	630	1340	77	15	55
RR-96-261-04	0.6	2.1	872	1310	75	16	58
RR-96-261-05	0.9	2.5	2460	1860	99	17	61
RR-96-262-01	1.2	2.5	2640	10700	87	39	120
RR-96-262-02	1.2	3.0	3350	9320	102	31	187
RR-96-262-03	1.2	1.9	4310	10800	93	45	115
RR-96-262-04	1.5	1.7	3150	6610	83	29	178
RR-96-262-05	13.5	7.4	5630	12500	83	46	125
RR-96-262-06	2.2	4.1	6920	12300	83	33	113
RR-96-262-07	1.6	2.4	6120	17800	58	37	107
RR-96-263-01	1.0	1.7	2650	6300	70	17	91
RR-96-264-01	1.5	2.4	6740	10800	96	34	131
RR-96-264-02	3.6	4.6	3630	8150	90	54	101
RR-96-264-03	6.1	49.5	4520	8660	92	47	155
RR-96-265-01	1.5	3.2	5400	7810	89	46	123
RR-96-265-02	0.9	8.2	4340	5610	116	15	82
RR-96-265-03	1.6	3.3	5990	8590	154	43	119

Activation Laboratories Ltd. Work Order No. 10214 Report No. 10101B

SAMPLE	Ag	Cd	Cu	Mn	Ni	Pb	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RR-96-265-04	1.6	3.1	8020	9580	93	35	125
RR-96-265-05	6.1	6.9	2930	35100	56	37	105
RR-96-266-01	6.3	2.6	4170	8360	113	39	140
RR-96-266-02	1.3	4.2	4110	7500	120	32	123
RR-96-266-03	4.2	2.9	6250	8160	101	44	172
RR-96-266-04	1.6	3.0	5000	11700	88	48	115
RR-96-267-01	2.0	3.9	810	5490	89	42	246
RR-96-267-02	7.4	5.3	2480	8850	104	46	331
RR-96-267-03	3.2	5.4	1390	9610	111	56	300
RR-96-267-04	3.3	4.1	889	4790	86	37	190
RR-96-267-05	0.5	2.5	222	1140	49	25	52
RR-96-267-06	0.9	7.6	1310	3550	51	29	75
RR-96-268-01	1.0	2.9	1000	5850	88	67	125
RR-96-268-02	2.2	3.7	1730	7000	96	42	190
RR-96-268-03	4.2	4.5	2000	3920	115	43	292
RR-96-268-04	4.5	3.9	1310	4880	124	45	346
RR-96-269-01	1.7	3.3	1040	6150	97	28	201
RR-96-269-02	1.4	3.3	1070	5430	97	33	261
RR-96-269-03	3.1	5.7	785	4340	99	40	286
RR-96-269-04	3.0	4.9	632	6710	88	40	517
RR-96-269-05	5.7	4.1	1770	5630	124	55	312

ACTLABS

**ACTIVATION
LABORATORIES LTD**

Invoice No.: 10342
Work Order: 10454
Invoice Date: 03-MAY-96
Date Submitted: 22-APR-96
Your Reference: RR-96
Account Number: 1553

OVERBURDEN DRILLING MNGT LTD
107 - 15 CAPELLA COURT
NEPEAN, ON
K2E 7X1

ATTN: STU AVERILL

CERTIFICATE OF ANALYSIS

AU, AS - INAA
10342B - AQUA REGIA - ICP

CERTIFIED BY :

Sylvia Alvarez
per DR. ERIC L. HOFFMAN

Activation Laboratories Ltd. Work Order: 10454 Report: 10342

Sample description	AU PPB	AS PPM	Mass g
RR-96 278-02	977	190	33.00
RR-96 279-01	476	210	37.00
RR-96 279-02	716	490	25.00
RR-96 279-03	469	170	33.00
RR-96 279-04	54	110	11.00
RR-96 279-05	1740	65	15.00
RR-96 280-01	625	150	46.00
RR-96 280-02	451	160	55.00
RR-96 280-03	277	110	56.00
RR-96 280-04	340	100	54.00
RR-96 281-01	613	130	57.00
RR-96 281-02	136	43	55.00
RR-96 281-03	868	95	56.00
RR-96 281-04	1070	170	54.00
RR-96 282-01	1190	200	35.00
RR-96 282-02	947	210	60.00
RR-96 282-03	994	170	36.00
RR-96 283-01	702	280	61.00
RR-96 283-02	1790	350	63.00
RR-96 283-03	1240	330	60.00
RR-96 283-04	1050	240	58.00
RR-96 284-01	537	180	19.00
RR-96 285-01	527	110	38.00
RR-96 285-02	315	96	58.00
RR-96 285-03	397	110	57.00
RR-96 285-04	185	130	37.00
RR-96 285-05	344	100	47.00
RR-96 286-01	342	270	17.00
RR-96 286-02	439	220	23.00
RR-96 286-03	4080	250	37.00
RR-96 286-04	1880	280	16.00
RR-96 287-01	127	280	18.00
RR-96 287-02	297	250	42.00
RR-96 287-03	106	180	41.00
RR-96 288-01	221	210	38.00
RR-96 288-02	142	220	21.00
RR-96 288-03	424	200	31.00
RR-96 289-01	202	220	28.00
RR-96 289-02	594	200	29.00
RR-96 290-01	132	180	21.00
RR-96 291-01	142	220	32.00
RR-96 292-01	224	240	26.00
RR-96 292-02	489	210	27.00
RR-96 292-03	190	170	28.00
RR-96 293-01	196	220	13.00

Activation Laboratories Ltd. Work Order: 10454 Report: 10342

Sample description	AU PPB	AS PPM	Mass g
RR-96 294-01	233	230	32.00
RR-96 294-02	195	350	28.00
RR-96 294-03	86	340	29.00
RR-96 294-04	252	330	32.00
RR-96 294A-01	57	330	17.00
RR-96 294A-02	108	21	16.00

Activation Laboratories Ltd. Work Order No. 10454 Report No. 10342B

SAMPLE	Ag	Cu	Ni	Zn	Cd	Mn	Pb
	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RR-96 278-02	7.8	478	95	97	0.9	1770	101
RR-96 279-01	0.4	535	71	94	1.4	2930	20
RR-96 279-02	0.9	849	131	86	1.9	2260	24
RR-96 279-03	0.4	279	54	58	1.0	1570	12
RR-96 279-04	0.2	504	58	53	1.6	1850	17
RR-96 279-05	2.7	457	37	43	0.5	1400	21
RR-96 280-01	3.6	669	73	163	3.1	2860	32
RR-96 280-02	2.1	800	74	207	2.6	5230	24
RR-96 280-03	1.9	550	55	148	1.7	4590	19
RR-96 280-04	5.5	679	49	180	2.7	5520	18
RR-96 281-01	1.5	435	67	239	2.5	1990	20
RR-96 281-02	0.3	277	52	87	1.4	988	26
RR-96 281-03	1.6	405	61	222	2.9	1510	21
RR-96 281-04	2.3	534	74	281	3.1	2600	25
RR-96 282-01	3.4	492	86	176	2.9	1370	21
RR-96 282-02	3.0	401	92	143	1.0	1260	25
RR-96 282-03	2.5	706	94	195	1.3	2180	28
RR-96 283-01	6.2	865	113	948	10.3	3030	36
RR-96 283-02	9.8	1010	98	1170	19.6	2920	47
RR-96 283-03	7.5	805	109	1020	10.5	2390	44
RR-96 283-04	4.2	587	73	575	5.1	2130	26
RR-96 284-01	2.7	635	105	146	2.2	1550	27
RR-96 285-01	1.5	429	75	103	1.5	1490	17
RR-96 285-02	0.7	451	75	96	2.0	1500	14
RR-96 285-03	0.8	657	77	89	7.5	1920	8
RR-96 285-04	-0.2	689	63	105	1.7	3120	15
RR-96 285-05	0.6	599	71	95	1.5	2410	11
RR-96 286-01	1.1	816	130	115	3.2	2130	20
RR-96 286-02	2.1	1430	127	138	2.5	1730	26
RR-96 286-03	1.1	690	107	136	1.8	2560	17
RR-96 286-04	1.5	890	110	123	2.2	1710	21
RR-96 287-01	0.6	470	138	94	0.8	2050	32
RR-96 287-02	-0.2	267	114	71	1.3	1340	26
RR-96 287-03	0.3	234	86	50	1.5	1370	24
RR-96 288-01	1.0	419	147	79	1.8	1140	30
RR-96 288-02	0.8	337	119	69	1.7	2150	26
RR-96 288-03	0.5	292	98	64	1.0	1870	26
RR-96 289-01	1.0	478	141	104	2.2	1700	37
RR-96 289-02	0.6	324	128	85	1.8	1100	33
RR-96 290-01	0.8	438	130	198	1.4	1930	84
RR-96 291-01	0.9	437	145	212	2.0	2320	93
RR-96 292-01	0.8	542	128	103	2.6	1720	28
RR-96 292-02	0.5	332	135	65	0.9	1350	25
RR-96 292-03	0.5	420	123	75	1.0	2310	30
RR-96 293-01	0.9	409	184	72	1.8	1600	33

Activation Laboratories Ltd. Work Order No. 10454 Report No. 10342B

SAMPLE	Ag	Cu	Ni	Zn	Cd	Mn	Pb
	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RR-96 294-01	0.7	438	121	69	1.1	1290	21
RR-96 294-02	0.7	385	122	76	2.2	1100	26
RR-96 294-03	1.0	523	119	109	3.4	1750	34
RR-96 294-04	0.6	378	126	72	3.7	1110	25
RR-96 294A-01	1.2	281	192	85	2.5	1400	31
RR-96 294A-02	2.0	76.3	110	51	1.4	2980	28

ACTLABS

**ACTIVATION
LABORATORIES LTD**

Invoice No.: 10657
Work Order: 10775
Invoice Date: 25-JUN-96
Date Submitted: 06-JUN-96
Your Reference: RR-96
Account Number: 1553

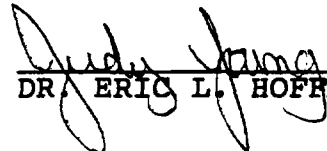
OVERBURDEN DRILLING MNGT. LTD.
107 - 15 CAPELLA COURT
NEPEAN, ON
K2E 7X1

ATTN: STU AVERILL

CERTIFICATE OF ANALYSIS

AU, AS - INAA
10657B - AQUA REGIA - ICP

CERTIFIED BY :

per 
DR. ERIC L. HOFFMAN

Activation Laboratories Ltd. Work Order: 10775 Report: 10657

Sample description	AU PPB	AS PPM	Mass g
RR-96 294A-03	23	5	28.00
RR-96 294A-04	217	35	17.00
RR-96 294A-05	83	160	14.00
RR-96 295-01	77	160	53.00
RR-96 295-02	66	140	57.00
RR-96 296-01	46	84	56.00
RR-96 296-02	56	67	55.00
RR-96 296-03	49	67	47.00
RR-96 297-01	56	160	34.00
RR-96 297-02	670	270	21.00
RR-96 298-01	546	110	42.00
RR-96 298-02	236	81	35.00
RR-96 298-03	369	110	21.00
RR-96 299-01	371	170	35.00
RR-96 299-02	450	140	52.00
RR-96 299-03	1120	180	56.00
RR-96 299-04	459	200	60.00
RR-96 300-01	612	220	55.00
RR-96 301-01	765	160	45.00
RR-96 301-02	309	130	56.00
RR-96 301-03	407	180	44.00
RR-96 301-04	1460	370	26.00
RR-96 301-05	784	250	42.00
RR-96 304-01	94	22	20.00
RR-96 304-02	12	8	12.00
RR-96 305-01	230	16	12.00
RR-96 305-02	15	43	3.000
RR-96 305-03	7	11	28.00
RR-96 305-04	74	5	44.00
RR-96 305-05	25	<2	48.00
RR-96 305-06	7	<2	30.00
RR-96 305-07	358	11	43.00
RR-96 305-08	67	16	35.00
RR-96 305-09	52	15	28.00
RR-96 306-01	55	<2	30.00
RR-96 306-02	75	2	47.00
RR-96 306-03	58	6	17.00
RR-96 307-01A	69	<2	15.00
RR-96 307-01B	16	<2	11.00
RR-96 307A-01	35	13	55.00
RR-96 308-01	146	11	37.00
RR-96 310-01	590	14	28.00
RR-96 311-01	81	31	40.00
RR-96 311-02	62	4	50.00
RR-96 311-03	<5	4	37.00

Activation Laboratories Ltd. Work Order: 10775 Report: 10657

Sample description	AU PPB	AS PPM	Mass g
RR-96 312A-01	425	45	17.00
RR-96 312A-02	76	37	17.00
RR-96 313-01	63	22	30.00
RR-96 313-02	39	15	25.00
RR-96 313-03	6	28	4.000
RR-96 313-04	9	34	14.00
RR-96 315-01	26	13	57.00
RR-96 315-02	195	24	50.00
RR-96 315-03	34	18	40.00
RR-96 316-01	30	18	55.00
RR-96 316-02	58	29	25.00
RR-96 317-01	73	18	56.00
RR-96 318-01	81	26	55.00
RR-96 318-02	<5	99	60.00
RR-96 319-01	27	18	54.00
RR-96 319-02	7	13	55.00
RR-96 319-03	74	19	51.00
RR-96 320-01	86	28	50.00
RR-96 320-02	65	28	45.00
RR-96 320-03	105	29	40.00
RR-96 320-04	234	41	50.00
RR-96 320-05	205	30	47.00
RR-96 320-06	204	33	57.00
RR-96 320-07	462	75	47.00
RR-96 320-08	182	77	63.00
RR-96 320-09	319	60	56.00

Activation Laboratories Ltd. Work Order No. 10775 Report No. 10657B

SAMPLE	Ag	Cu	Ni	Zn	Cd	Mn	Pb
	ppm	ppm	ppm	ppm	ppm	ppm	ppm
294A-03	-0.2	26	21	21	0.8	1040	10
294A-04	0.2	107	94	49	0.8	3340	23
294A-05	0.3	415	408	63	-0.7	6282	52
295-01	0.2	265	121	86	-0.5	2310	25
295-02	0.4	195	95	107	-0.5	2710	27
296-01	-0.2	214	60	52	-0.5	650	15
296-02	-0.2	196	57	49	-0.5	460	19
296-03	-0.2	246	54	55	1.5	628	19
297-01	0.2	253	113	216	-0.5	3200	36
297-02	0.6	464	150	177	-0.5	2960	49
298-01	0.4	1270	91	157	-0.5	3960	42
298-02	0.4	6430	84	87	-0.5	3820	37
298-03	1.4	3370	86	87	-0.5	4090	53
299-01	1.5	2430	113	193	-0.5	6930	58
299-02	1.4	2510	93	218	-0.5	7040	54
299-03	1.3	3800	97	177	-0.5	4080	49
299-04	2.1	904	135	275	-0.5	3060	44
300-01	3.9	884	111	626	-0.5	5730	70
301-01	1.9	2190	108	238	-0.5	4020	56
301-02	0.9	576	84	289	-0.5	4230	39
301-03	0.7	1120	125	292	-0.5	5300	67
301-04	2.7	987	117	371	-0.5	3750	63
301-05	11.1	1890	116	244	-0.5	4920	67
304-01	1.1	670	84	38	-0.5	1520	23
304-02	0.3	294	70	30	-0.5	1030	24
305-01	-0.2	181	67	35	-0.5	1790	25
305-02	0.2	1040	114	57	-0.5	1770	29
305-03	1.1	199	51	29	0.7	1140	16
305-04	-0.2	43	25	20	-0.5	713	13
305-05	-0.2	35	26	16	-0.5	655	15
305-06	-0.2	26	25	20	-0.5	584	13
305-07	-0.2	108	43	19	-0.5	911	11
305-08	0.2	197	61	26	1.4	1030	18
305-09	0.5	7520	44	56	-0.5	1120	24
306-01	1.2	159	28	17	0.7	610	12
306-02	0.2	172	24	12	0.5	443	11
306-03	-0.2	105	32	19	-0.5	487	19
307-01A	-0.2	28	14	15	0.6	937	18
307-01B	-0.2	41	14	17	0.7	847	15
307A-01	2.1	716	90	34	-0.5	2830	13
308-01	-0.2	1060	90	37	-0.5	1750	7
310-01	0.2	542	163	87	-0.5	1100	31
311-01	0.2	401	96	64	-0.5	1240	40
311-02	0.5	144	45	26	0.5	624	12
311-03	0.4	44	21	16	-0.5	746	11

APPENDIX V

BINOCULAR LOGS - BEDROCK CHIP SAMPLES

Rainy River Project
Work Report
1996 Reverse Circulation Drill Data
Paul Jones, Project Geologist
July 22, 1996

APPENDIX V

BINOCULAR LOGS - BEDROCK CHIP SAMPLES

Rainy River Project
Work Report
1996 Reverse Circulation Drill Data
Paul Jones, Project Geologist
July 22, 1996

NuimSCO

SAMPLE NUMBER	COLOUR	STRUCTURE	GRAIN SIZE (mm)	TEXTURE	MINERALOGY				NAME
					Silicates	Carbonates	Sulphides	Other	
RR-96 212-02	pale green	poorly foliated; 1% calcite inlets	0.1	equigranular, interlocking	plag - 45% chlorite - 40%	12% calcite - pervasive	0.05% very fine disseminated pyrite; possibly a trace of chalcopyrite	—	Basalt
213-02	pale grey green (bleached) - local faint red hematite stain	moderately well foliated; 2% calcite ± quartz stringers; some with a trace of tourmaline	variable 0.1- 0.5 (chip various)	equigranular, interlocking	plag. - 45 pyx. - 30-35% chlorite - 15%	10-12% calcite - in stringers & disseminated	NIL	0.1% tourmaline with calcite stringers	Basalt
214-03	pale green; large local oxidation	competent chips are massive and variably weathered	0.2-0.4	equigranular, interlocking	plag - 60% partly chloritized pyroxene (medium green) - 40%	—	NIL	—	Basalt
Abundant Rock Flour (grey-brown)									
215-05	"Competent" chips are destroyed. A few grains of limonite / siderite Traces of	small, oxidized and highly altered (sericite) have survived.		oxidized and highly altered (sericite) have survived.	clay altered - original mineralogy probably assumed to be basalt.			completely basalt.	Serpentine
Majority of Sample Ground to brown (oxidized) clay / rock flour									
216-02	pale grey green; bleached (clay altered)	well foliated with a few schistose / variably sheared rock chips	0.1-0.2	equigranular; interlocking; variably hard to soft (clay altered)	50:50 plag versus pale green pyroxene (partly chloritized)	1% calcite - disseminated (not present in all chips)	NIL	—	Basalt

SAMPLE NUMBER	COLOUR	STRUCTURE	GRAIN SIZE (mm)	TEXTURE	MINERALOGY				NAME
					Silicates	Carbonates	Sulphides	Other	
RR-96 231-03	bleached pale - white with hint of reddish hematite stain.	Quenched. Only weakly foliated but sections only fractured and crushed by strong shearing (phenocryst - destructive)	Quartz Phenos: 0.5-2.0mm G. mass: <0.1mm	weakly porphyritic 1% clear quartz phenocrysts in a hard fine quartz-feldspathic groundmass; most phenocrysts diffuse due to strong crushing	phenos 5-7% qtz G. mass: quartzo-feldspathic with 10-15% sericite	Nil	0.5% pyrite so finely disseminated and smeared along fractures (epigenetic)	Tr. finely disseminated magnetite.	Rhyolite.
232-04	pale grey green	poorly foliated, weakly streaked (alignment of minor slip planes)	Phenos: 0.5-1.0mm Plag: phenos 3mm groundmass 0.05-0.2	porphyritic; fine, irregular quartzo-feldspathic groundmass with ~10% anhedral quartz phenocrysts (dominantly blue)	quartzo-feldspathic groundmass 3% plag phenos 3-5% qz phenos chlorite - 8-10% (after biotite) -- possible trace of chloritized hornblende	0.5% calcite coating fractures	Trace finely disseminated pyrite	0.1% fine patches beige Neocoenyne with le	INTERMED. VOLC. (ANDESITE)
233-05	white to grey green to brown (weathered)	schistose; moderately strong ductile shearing Parts ground to white to green saproplitic clay		sample ranges from white qz-feldspathic sericite schist to grey green, more chloritic and less sheared material with some quartz phenocrysts (2% and common pyrite)	quartzo-feldspathic - 15% sericite - 10% chlorite	Nil	8% pyrite -- dominantly in more chloritic parts of sample as semi-massive concentrations	No Fe/Ti oxides	Sericite to chlorite schist (probably dacite)
234-		See separate sheet	Sheet						
235-04	off-white	moderately foliated to sub schistose; may be moderately sheared (brittle?) but difficult to determine; some siderite ± qz veins Majority of sample ground to grey-blue saproplitic	groundmass 0.05(?) phenocrysts 1-4mm (Mesozoic)	surviving chips on hand; quartzo-feldspathic and fine grained with <10% anhedral, clear quartz phenocrysts and possibly a few indistinct feldspar phenocrysts	quartzo-feldspathic groundmass; <10% qz phenos; 20-25% sericite, typically along foliation planes; 2% grey green chlorite	no attention carbonates - rock but beige siderite ± qz is present, resulting from saproplitic development	Nil	No Fe/Ti oxides	Saproplitic + Rhyolite

SAMPLE NUMBER	COLOUR	STRUCTURE	GRAIN SIZE (mm)	TEXTURE	MINERALOGY				NAME
					Silicates	Carbonates	Sulphides	Other	
241-03	Mottled pink-white { green-black (weak hematite stain)	massive unsteered	0.5-5.0mm	hypidiomorphic inequigranular	plag: 45-50% qtz: 20% hb: 20% (locally chloritized) biot: 1-2% epidote 7%	1% disseminated calcite	Nil	0.5-1% beige leucosane (after sphene)	Tonalite
242-02	Mottled pink-white { green-black (weak hematite stain)	massive unsteered	6.0-6.0mm	hypidiomorphic inequigranular	plag: 45-50% qtz: 15-20% hb: 25% (locally chloritized) biot: 2-3% epidote: 5%	Tr. disseminated calcite	Nil	Tr. beige leucosane (after sphene)	Tonalite
243-02	dark green to black	poor to moderate foliation 10% leucocratic chips may be relict pillows & veins 3-5% quartz + calcite vesicles	0.05-0.1 plag pleno 0.3-0.6mm	weakly plag phytic recrystallized amphibolite facies metamorphism (sugary plag. & hornblende)	plag: 30% hornblende: 65-70% (partly chloritized)	Tr. calcite as disseminated 3% in veinlets	0.2% disseminated { stony pyrite	2-3% disseminated magnetite	Basalt (amphibolite?)
243-03	dark green to black	poor to moderately well foliated 1-2% calcite + quartz veinlets Few slip planes	0.05-0.15mm plag pleno 0.3-0.6mm	weakly plag phytic recrystallized amphibolite facies metamorphism (sugary plag. & hornblende)	plag: 30% hb: 50% chl: 15%	Tr. disseminated calcite & in veinlets	0.3% disseminated and smeared along fracture planes Tr. disseminated pyrochlore	2-3% disseminated magnetite	Basalt (amphibolite?)
244-04	dark green	unmarked well foliated locally schistose. 1-2% quartz + calcite veinlets Few slip planes (hematized)	0.1-0.2mm	foliation overprinting equigranular interlocking texture.	plag: 40% hb: 20% chl: 30-35%	2% calcite along fracture planes and in veinlets.	Tr. cubic pyrochlore along fracture planes.	2% disseminated ilmenite (non magnetic)	Basalt (amphibolite?)

Namsco

SAMPLE NUMBER	COLOUR	STRUCTURE	GRAIN SIZE (mm)	TEXTURE	MINERALOGY				NAME
					Silicates	Carbonates	Sulphides	Other	
RR-95 248-04	medium green	Schistose; unshaped, but thin appears to be transposition of mineral grains into foliation planes	0.1	equigranular; interlocking; rock is soft and chlorite-mica altered; may be slightly micro-perphyritic with respect to plagioclase	plagioclase - 65% (micaceous) chlorite - 35%	Nil	Tr. coarse pyrite cubes	No Fe/Ti oxides	Basalt (similar to 247-05)
248-05		Similar to 248-04, but	4	moderately sheared with ~ 10% chloritic shear planes; 0.5% pyrite cubes					Basalt
248-06		Similar to 248-05, but sericite ex fine muscovite cubes to 2mm	5	with 5-10% cloudy vein quartz + plagioclase in sheared chips and marginal to	cloudy vein quartz + plagioclase (albite?) in veins; 0.5-1% pyrite				Basalt
249-03	grey green	moderately well foliated; 2-4% quartz - calcite veinlets	groundmass 0.05-0.1mm phenocrysts 0.5-1.2mm	quenched; porphyritic with < 5% cloudy in distinct plagioclase phenocrysts (chloritized) also appears to form an axial local phenocrysts (2-4%)	feldspathic groundmass (may in part be metamorphically microcrystallized?); 5% plagioclase phenocrysts; 2-4% hornblende phenocrysts; 15-20% chlorite (2 bit)	2% calcite in veinlets; 2% calcite as disseminations	0.05% pyrite - finely disseminated; local pyrite cubes to 1mm in veinlets	No Fe/Ti oxides	Andesite (amphibolitized?)
250-04	medium green	well foliated - very weakly sheared - minor slip planes	0.1-0.4	inequigranular; interlocking; groundmass typically 0.1mm but microporphyritic with respect to plagioclase (to 0.4mm)	15-20% plagioclase - micro-phenocrysts < 1% quartz micro-phenocrysts; groundmass 60:40 plagioclase: chloritized pyroxene	2% calcite - disseminated	faint trace finely disseminated pyrite	0.1% ilmenite disseminated; trace leucocene	Andesite (micro-porphyritic)

SAMPLE NUMBER	COLOUR	STRUCTURE	GRAIN SIZE (mm)	TEXTURE	MINERALOGY				NAME
					Silicates	Carbonates	Sulphides	Other	
RR-95 251-05	grey-green (minor red weathering)	moderately foliated; unsharpened; weakly defined lamination of mafic minerals; 2% vesicle qz unquenched	0.05-0.3 phenos. to 1mm	inequigranular, interlocking; weakly micro-porphytic with subhedral plag to 1mm (5%) and partially anhedral chloritized mafic minerals 80.7% -; weak epidote alteration	plag - 50-60% Chlorite - 25-30% Chloritized plag - 5-10% (incipient metamorphic recrystallization)	Nil	Nil	0.1% red, earthy hematite pseudomorphs of pyrite	Basalt (similar to 250-04)
252-01	medium green (to pale green-bleached)	well foliated and limited (effects of weak shearing); unquenched; 1-2% calcite + qz stringers along fractures	~0.1; mafic (chlorite) clots to 0.8mm (5% of sample)	inequigranular, interlocking; dark green anhedral chlorite suggestive of original pyroxene phenocrysts; partially saussuritized	plag - 60 (epidote altered) chlorite - 15-20% partly chloritized pyroxene - 15-20%	2% calcite, in stringers, and as disseminations	very faint trace of disseminated pyrite	No Fe/Ti oxides	Basalt
253-02	pale grey green Similar to	well foliated and limited (effects of weak - mill scale?) shearing; may possess a few calcite/qz filled amygdalae 252-01	groundmass 0.1-0.15mm phenos 0.5-1.0mm (locally to 2mm)	inequigranular, interlocking groundmass with ~5% chloritized subhedral pyroxene phenocrysts; partially saussuritized	plag - 50-55% (epidote altered) chlorite - 15-20 partly chloritized pyroxene - 15-20	7% disseminated calcite	very faint trace disseminated pyrite	<0.5% very fine bright leucocrane	Basalt
254-02	Much of sample ground to green, minor - minor rock chips similar to 254-03			non-calcareous saproductic clay					Saproducts + Basalt
254-03	green	poorly foliated; unsharpened; unquenched - local clay/mica alterations; drill logs indicate barren white qz vein ~0.1m thick	0.1-0.3	equigranular and interlocking; faintly coarse grain size with cloudy anhedral plag and anhedral partly chloritized mafic minerals	plag - 60% chlorite - 25-30% chloritized pyroxene - 10-15%	Nil	Nil	0.5-1.0% bright leucocrane	Basalt

SAMPLE NUMBER	COLOUR	STRUCTURE	GRAIN SIZE (mm)	TEXTURE	MINERALOGY				NAME
					Silicates	Carbonates	Sulphides	Other	
RR-95 255-04	dark green with pale green (bleached) areas Similar to	moderately well foliated; minor slip planes; sometimes coated w. fibrous chrysotile; 1-2% chrysotile-carbonate in-lets	0.1-0.3	equigranular, interlocking; bleached and epidote altered (locally (marginal to fractures??) bleaching, surface weathering	plag - 40% (partly epidote altered) chlorite - 55% (1-2% chrysotile with vein carbonates (at margins) & locally forming foliation planes	5% Fe/Mg carbonate associated with chrysotile in veinlets and in bleached epidotized portions of sample.	0.5% coarse disseminated pyrite cubes	No Fe/Ti oxides	Basalt
255-05	dark green	poorly to unfoliated; well sheared; unquenched (1% carbonate stringers)	0.15 to 0.4mm	fairly coarse, equigranular and interlocking texture; anhedral plag. and chlorite (after pyroxene)	plag - 50% (with epidote alteration) chlorite - 30-35% partly chloritized pyroxene - 15-20%	<1% calcite ± Fe/Mg Can locate in stringers	trace finely disseminated pyrite	0.5% fine ilmeneite	Basalt
256-02		Sample Ground to	light green	saprolitic clay					Saprolite + Basalt
256-03	green ~5% overburden contamination	strongly foliated to schistose due to moderate shearing; locally laminated; unquenched	<0.05 to 0.2mm	grain size variations reflect degree of shearing -- coarse chips are less sheared with an equigranular, interlocking volcanic texture; shearing (ductile) result in a fine grained rock dominated by chlorite	plag - 50% (partly sericitized where sheared) chlorite - 50%	Nil	Nil	No Fe/Ti oxides	Basalt
256-04	Similar	to 256-03 but	parts	of sample ground to	green saprolitic(?) clay				Basalt (+ Saprolite)

SAMPLE NUMBER	COLOUR	STRUCTURE	GRAIN SIZE (mm)	TEXTURE	MINERALOGY				NAME
					Silicates	Carbonates	Sulphides	Other	
RR-96 257-05	pale grey green (bleached?)	strong foliation (+ lineation?) due to moderate to strong ductile shearing; quenched almost a fissile appearance	<0.05 to aphanitic	very finely interlocking; looks intermediate but lack of plag & qz phenols suggests bleached basalt	too fine and light colored to differentiate plag and mafic minerals except for 5-10% chlorite; appears feldspathic	7% poorly reactive Fe/Mg carbonates -- disseminated and liming foliation planes	0.1% pyrite -- fine disseminated cubes	No Fe/Ti oxides	Basalt (sheared)
257-06	white to clear	Massive vein material probably representing calcite; no associated sulfides			590 g sample 257- 05	:- 80/20 quartz versus 05			Vein Quartz- Calcite
258-02	dark green to black	well foliated and limbated; unsheared; 3-4% qz-calcite stringers parallel to foliation	0.1	equigranular & interlocking; in part, mechanically recrystallized	plag :- 40-45% chlorite :- 20% pyroxene/actinolite :- 30% - weak epidote alteration of plag.	7% calcite :- in veinlets with qz and disseminated	0.1-0.2% disseminated pyrite and fine limb (0.1-0.2) to coarse (0.5-1) cubes	No Fe/Ti oxides	Basalt
259-01	pale green & white	very poorly foliated but with a weak lineation of mineral constituents	0.15-0.3	unquenched; equigranular & interlocking; subducted to annealed plag and mafic	plag :- 60-65% chlorite & actinolite pyroxene :- 35-40% trace quartz -- unorthodox	0.5% calcite - local dissemination	Nil	No Fe/Ti oxides	Basalt
260-02	pale green to white	massive to very weakly foliated	0.2-0.4	equigranular, interlocking to poorly diabasic with randomly oriented plag. Laths enclosing interstitial chloritized pyroxene	plag :- 55% pyroxene :- 15% chloritized pyroxene :- 30%	Nil	Nil	0.3% pale large leucocrane	Basalt
	Similar to	259-01 but unannealed							

SAMPLE NUMBER	COLOUR	STRUCTURE	GRAIN SIZE (mm)	TEXTURE	MINERALOGY				NAME
					Silicates	Carbonates	Sulphides	Other	
RR-96 261-06	medium green	poorly foliated; unshredded	0.15-0.4mm	unquenched; equigranular and interlocking; a local plagioclase; local weathering; epidote alteration	plag: - 55-60% (with epidote alteration) chlorite: pyroxene: -40-45%	local trace of calcite	Nil	trace leucosene	Basalt
	Vaguely	similar to 259-a	260-02						
262-08	medium green & pale rusty green (weathered chips)	well foliated, weakly laminated - stretched grains. 3% gty veinlets	0.1-0.2mm	quenched; soft clay altered chips; yet still distinguishable equigranular interlocking texture.	plag: 55% (clay altered) chlorite: 45% (clay altered)	Nil	Trace disseminated pyrite	trace leucosene	Basalt + saponite
			1/3 of	sample is non calcareous grey-green clay					
263-02	pale green and beige (weathered rock chips)	well foliated to sub schistose - weakly sheared?	0.1-0.3mm	unquenched; soft clay altered chips inequigranular interlocking	plag: 55% (clay altered) chlorite: 45% (clay altered)	Nil	Nil	Tr. patchy hematite	Basalt + saponite
			1/2 of	sample is green-brown non calcareous clay.					
263-03	brownish-green & red (hematite) weathered rock chips	sub schistose to schistose (weakly sheared?)	0.1-0.3mm	unquenched; soft clay altered chips inequigranular interlocking	plag: 45% (clay altered) chlorite: 50-55%	Tr. Fe long carbonate	Nil	3-4% hematite stain (patchy & along fracture planes) Tr. beige leucosene.	Basalt + saponite
			Majority of	sample is green-brown non calcareous clay					
264-04	pale green	well foliated weak to moderately sheared. Also intersected 30cm thick white quartz vein with trace siderite (possibly mesozoic) comprising 20% of sample	0.05-0.1mm	quenched: soft clay altered chips. equigranular interlocking	plag: 60% chlorite/sericite: 40% (clay altered)	Nil	Nil	Trace leucosene	Basalt + saponite
			Majority of	sample is pale grey green non calcareous clay					

SAMPLE NUMBER	COLOUR	STRUCTURE	GRAIN SIZE (mm)	TEXTURE	MINERALOGY				NAME
					Silicates	Carbonates	Sulphides	Other	
265-06	medium green { beige (weathered rock chips)	unquenched poorly foliated.	0.1-0.3mm [~ 1/2]	inequigranular interlocking chips are mainly competent locally clay altered of sample is grey-green non cal	plag: 55% chlorite: 45% (clay altered)	Nil	Nil	Tr. beige leucoxene	Basalt + saprolite
266-05	medium green	Poorly foliated Few slip planes	Gmass. ≤ 0.1mm Phenos. 0.2-0.6mm	porphyritic: subhedral and anhedral pyroxene and plagioclase crystals with equigranular interlocking groundmass.	phenos pyroxene: 15% plagioclase: 3-5% 80% groundmass - 35% pyroxene mainly chlorite - 65% undiff. plag + qtz	Nil	Nil	Tr. native copper as disseminations	Basalt
267-07	beige-white { green (weathered)	Quenched moderately foliated v. weakly sheared chlorite + sericite slip planes [2/3 weakly calcareous]	Gmass. ≤ 0.1mm phenos. 0.3-0.8mm	dominantly micro porphyritic porphyritic not overtly as many of plag phenos are equigranular. fine recrystallized quartz + feldspar groundmass. pale grey clay	phenos. plag.: 35% quartz: 2% Gmass: 30% undifferentiated plag + quartz 20% chlorite/sericite (after biotite)	2-3% calcite as disseminations in groundmass.	Nil.	Tr. leucoxene	Intermediate Volcanic (Andesite) + saprolite
268-05	rusty brown { medium green.	Quenched schistose. Moderately sheared. Pervasive chlorite + sericite slip planes. [1/2 of sample is green]	Gmass. ≤ 0.1mm phenos. 0.4-2.0mm brown non calcareous clay	porphyritic: plag and quartz phenos (subhedral + anhedral) enclosed by fine granular groundmass largely masked due to plagioclase non calcareous clay	phenos plag: 25% qtz: 4-5% Gmass: qtz + feldspar with 25-30% chlorite variably sericite	Nil	Nil	0.5-1% goethite after pyrite (variably cubic)	Intermediate Volcanic (Andesite - Sheaved) + saprolite
269-13	pale rusty { grey green (weathered chips)	Quenched well foliated laminated. 1-2% nodular siderite mainly along fracture planes. (due to influence of iron-bearing weathering)	≤ 0.1mm [1/2 of sample is brown-green]	equigranular interlocking. chips are soft and extensively clay altered.	plag: 55% (clay altered) chlorite: 45% (clay altered) non calcareous clay	1-2% siderite mainly along fracture planes	Nil	Trace leucoxene	Basalt + saprolite

SAMPLE NUMBER	COLOUR	STRUCTURE	GRAIN SIZE (mm)	TEXTURE	MINERALOGY				NAME
					Silicates	Carbonates	Sulphides	Other	
270-01	yellow-brown, red & green (limonite & hematite stain due to weathering)	Sub schistose v weakly sheared presence of slip planes chloritic variably hematitic due to weathering	Groundmass: 0.1mm phenos: 0.3-0.5mm	v. weakly plagiophytic (microphytic) with equigranular interlocking groundmass.	plagi: 55% chlorite: 45%	Nil	Nil	No Fe/Ti oxides	Basalt + Saponite
271-03	beige-white and green	schistose moderately to strongly cleaved abundant chlorite & sericite slip planes. Few mylonitic seams aphanitic groundmass with sheathed plagioclase phenos.	Groundmass ≤ 0.1 phenos: 0.5-3.0mm	strongly porphyritic. Fine quartz, feldspathic groundmass enclosing subhedral {anhedral (streaked)} plagioclase phenocrysts	phenos: plagi: 20-25% groundmass: quartz, feldspathic 15% chlorite/sericite (after biotite)	Nil	Nil	Trace hematite	Int. Volcanic Andesite (sheared)
272-19		Sample consists entirely of (omitted subphases)		blue-green moderately streaked white drilling)	calcareous	clay			Saprolite
273-07	green-brown (weathered chips)	sub schistose well foliated weakly sheared; chloritic slip planes weakly sericitized local stretching of plagioclase phenocrysts. [2/3 of sample is	groundmass ≤ 0.05mm phenos: 0.5-1.5mm	porphyritic: subhedral plagioclase and quartz phenos with fine quartz-feldspathic groundmass (near aphanitic)	phenos: plagi: 25% qtz: 2% g.mass: quartz-feldspathic with 30% chlorite + sericite (after biotite)	Nil	Nil	0.3% limonite pseudomorphs (sub. after pyrite) as dissemination.	Intermediate Volcanic (Andesite)
274-04	pale greenish grey & white	moderately sheared abundance of schistose sericitized slip planes local stretching of phenos 3-4% quartz veinlets	groundmass ≤ 0.05 phenos: 0.5-2.5mm	porphyritic: Subhedral plagioclase & quartz phenos with near aphanitic (tectonic) quartz-feldspathic groundmass	phenos: plagi: 20% qtz: 5% groundmass: quartz-feldspathic 30% sericite + chlorite (after biotite)	0.5% partially disseminated Fe Mg carbonates	Nil	Nil	Intermediate Volcanic (Dacite) Sheared

SAMPLE NUMBER	COLOUR	STRUCTURE	GRAIN SIZE (mm)	TEXTURE	MINERALOGY				NAME
					Silicates	Carbonates	Sulphides	Other	
275-02	mottled white and medium green	moderately well foliated & weakly sheared few mildly sericitized slip planes. Holes intersected 1/2 metre barren white, crystalline qtz veinlets	g.mass ≤ 0.1 mm Phenos. 0.5-3.5mm	strongly porphyritic. Subhedral & locally euhedral plag. phenos enclosed by equigranular interlocking groundmass	Phenos. plag 20% qtz 1% G.mass. 30% chlorite 3% sericite 3% epidote	1% calcite mainly finely disseminated or on periphery of plag. phenos.	Trace of disseminated pyrite	No Fe/Ti oxides	Intermediate Volcanic (Andesite)
276-09	85% medium green 15% grey brown chips	Quenched: poorly foliated; few chloritized slip planes. 1% qtz + calcite mainly associated with biotitic chips (well foliated)	0.05-0.15	equigranular interlocking texture. locally plag. pyrox (weakly).	60-65% plag. 35%-40% chlorite variably biotite (brown chips)	4% calcite as disseminations ≤ 0.5% associated with quartz veinlets	1% pyrite + pyroxite as disseminations pyrox. mainly associated with biotitic chips	No Fe/Ti oxides.	Basalt
277-07		olive green to oxidized chips	brownish ≤ 2mm	non calcareous, and few qtz vein	clay few surviving small chips.		clay altered		Saprolite
278-03	pale pink-red and white (hematite stain)	poorly foliated & weakly sheared. few sericitic slip planes. 1% qtz + calcite veinlets	g.mass. ≤ 0.05mm phenos 1-4mm	strongly porphyritic. Subhedral plag. phenos (some times 20% of) enclosed by near aphanitic tectonic groundmass	phenos plag: 25% G.mass: (75%) 85% undifferentiated plg & plag. 15% biotite & sericite	1% Fe (magnesian) mainly occurring along microfractures & slip planes. Trace calcite assoc. with qtz veinlets	0.5% coarse pyrite associated with plag. phenos	2% peppered magnetite (mainly euhedral crystals) associated with hematite obtained groundmass Trace biotite leucopene after sphere	Feldspar Porphyry
279-06	mottled med. green and white	moderately well foliated few slip planes. ~3% leucocratic chips may be infilled selvages.	0.1-0.2	mainly equigranular interlocking. Locally weakly porphyritic Plagioclase is saussureitized	plag: 65-70% qtz: 2% blue chlorite: 25-30%	3% calcite as disseminations	Trace disseminated pyrite	No Fe/Ti oxides	Basalt

SAMPLE NUMBER	COLOUR	STRUCTURE	GRAIN SIZE (mm)	TEXTURE	MINERALOGY				NAME
					Silicates	Carbonates	Sulphides	Other	
280-05	white to beige (oxidized)	schistose; laminated; weakly to moderately sheared	0.05- phenos 101.2m-	porphyritic - 5% anhedral clear qz. phenos in a very fine qz-plag-sericite groundmass	5% qz. phenos; undifferentiated plag & qz groundmass 20% white sericite	fair trace disseminated calcite	Nil	trace brown to black acicular tourmaline	Rhyolite (sericite schist)
280-06	green to brown (oxidized & weathered) & bleached	well foliated; weakly sheared; ~10% pale wim material or silicified host rock; some slightly oxidized chips appear to be present	0.05 to 0.1m primary	vague equigranular interlocking volcanic Texture qz-carb. wim material (10%)	undifferentiated plag & qz - chlorite - 25%	Nil	1-2% pyrite - fine to coarse (0.5m-) disseminated cubes, principally in silicified, wim portions of sample	-	Basalt (possible Andesite)
281-05	dark brownish green	strong foliation, linear weakly sheared. sericitized slip planes 5-7% quartz veinlets	0.1m	quenched. equigranular interlocking	plag: 50% chlorite + : 50% sericite	Nil	Trace disseminated pyrite	Trace disseminated ilmenite.	Basalt
282-04	medium green } patchy beige	well foliated weakly sheared few slip planes weakly sericitized 1% quartz veinlets	0.05-0.15 m	quenched, equigranular interlocking. chips pocketed with beige sericite	plag: 50-55% chlorite: 40% sericite: 5%	4% disseminated calcite	Trace disseminated pyroxite + pyrite	2% magnetite as dissemination locally concentrated (up to 5% in some chips)	Basalt.
283-05	pale grey white (bleached)	well foliated moderately sheared with sericitized slip planes and 1% qtz-py. veinlets. plag. phenos bleached & wim comminuted	groundmass 0.3-0.5 partially disseminated phenos. to 2.5mm wim	Porphyritic. 10% blue and clear qz phenos in sugary qtz-feldspathic groundmass	phenos: qtz: 70% plag: 10% (vague due to bleaching) sericite: indistinct qtz-feldspathic 10% sericite Tr. chlorite	0.5% disseminated calcite	0.5-1.0% finely disseminated pyrite (locally coarse grained)	0.3% tourmaline needles as dissemination. 0.2% yellow feldspar wim: li	Quartz Porphyry or Rhyolite (bleached)

SAMPLE NUMBER	COLOUR	STRUCTURE	GRAIN SIZE (mm)	TEXTURE	MINERALOGY				NAME
					Silicates	Carbonates	Sulphides	Other	
284-02	Pale gray green & rusty yellow (weathered chips)	well foliated to sub-schistose weakly sheared - sericitized slip planes 1% qtz veinlets.	G. mass 0.2-0.4 phenos to 3mm	Porphyritic: 10% blue and clear quartz phenos in orangey quartzo-feldspathic groundmass	phenos: quartz: 15% plag: 5% ididite g. mass: qtz-feldspath with 15% chlorite 5% sericite	1% disseminated calcite	Trace disseminated pyrite	0.5% tourmaline needles mainly occurring along cleav planes Trace diop. magnetite Trace specular hematite	Quartz - Feldspar Porphyry
285-06	medium green and pink red (hematite & iron)	moderately well foliated schistose shear planes (sericitized) weakly sheared 2% quartz veinlets	G. mass 0.2-0.3mm phenos. to 2.0mm	porphyritic: sub-hedral plag and blue + clear quartz phenos with equigranular interlocking groundmass.	phenos plag: 35% qtz: 10% g. mass: (55%) qtz-feldspathic 2.5% chlorite 5% sericite	Tr. disseminated calcite	Nil	2% disseminated specular hematite	qtz feldspar porphyry
286-05	pale green	moderately well foliated; minor kinked slips - weakly sheared	G. Mass 0.1-0.2 Phenos 0.5-2mm	Porphyritic; 15% subhedral plag and 5-7% anhedral clear (to blue) qz phenos; in a fine leucocratic quartzo-feldspathic groundmass	phenos plag - 15% qz - 5-7% G. Mass quartzo-feldspathic chlor. 6-8-10% sericite - 2-3%	5% calcite - disseminated	Nil	Nil	Dacite (porphyritic) (not significantly different than 284, 285)
287-04	Medium grey-brown	Clastic. No discernible bedding. Weakly foliated. Unsheared.	Mostly 0.25-0.5	Medium sandy with sparse coarse sand (0.5-2.0mm) qtz and rare granules (2-4mm) and small pebbles (>4mm)	10% colourless to blue qtz. small grains 80% plagioclase and leucocratic lithic volcanic grains (differentiable only where coarse) 10% biotite	Nil	Nil	No Fe/Ti oxides	Greywacke
288-04	Medium grey-brown	Clastic rare silty beds (1%) weakly foliated; few delaminated, waxy pyritic slip planes.	Mainly 0.2-0.5mm	Medium sandy rare silty beds (1%) Sparse coarse sand (1%) 0.5-2.0mm - random not bedded.	10% colourless & blue quartz 75% plagioclase & leucocratic lithic volcanic grains 15% biotite	Nil	Tr. pyrite mainly associated with slip planes	No Fe/Ti oxides	Greywacke

SAMPLE NUMBER	COLOUR	STRUCTURE	GRAIN SIZE (mm)	TEXTURE	MINERALOGY				NAME
					Silicates	Carbonates	Sulphides	Other	
294A-06	medium to dark brownish grey	Fossils well foliated to sub-schistose unsharved	mainly 0.05-0.1mm	Metamorphic texture weakly porphyroblastic (1% pink almandine) mainly fine recrystallized sugary undifferentiated qtz + feldspar.	1% garnet porphyroblastic 70% qtz + feldspar 25-30% biotite	Nil	0.5% pyroite laminae (thinly parallel to bedding planes). Tr. pyrochroite	No Fe/Ti oxides	Siltstone (fine biotite schist)
295-03	medium to dark grey	poorly foliated - thin (< 0.3 mm) mylonitic seams Clastic; no visible bedding	0.1-0.3	fine sandy, poorly sorted, patchily recrystallized & sugary	92-200% plagioclases -- 60% (undifferentiated) biotite - 20%	Nil	0.4% disseminated pyroite locally pyrochroite	No Fe/Ti oxides	Greywacke (biotite schist)
296-04	medium brownish grey	Clastic no discernible bedding weakly foliated unsharved	mainly 0.2-0.5mm	medium sandy texture.	10% colourless & blue qtz sand. 70% undifferentiated plagioclases & leucocrithis 20% biotite	4% disseminated calcite	Nil	No Fe/Ti oxides	Greywacke (biotite schist)
297-03	pale to medium brownish grey	clastic no discernible bedding moderately foliated weakly sheared; v. few semi-parallel slip planes	mainly 0.3-0.6	medium sandy; occasional coarse sand grain to 1.2mm; partially recrystallized	710% colourless & blue qtz 70% undiff. plagioclases & leucocrithis - 1.1% 15% biotite	5% disseminated & thinly veined calcite.	0.3% disseminated pyrochroite	No Fe/Ti oxides	Greywacke.
298-04	medium green	unquarried weakly foliated unsharved	0.1-0.25	equigranular interlocking	70-75% plagioclases 25-40% chloritized pyroxene (actinolite)	Tr. locally uncrystallized calcite	Tr. disseminated pyroite	No Fe/Ti oxides	Basalt

SAMPLE NUMBER	COLOUR	STRUCTURE	GRAIN SIZE (mm)	TEXTURE	MINERALOGY				NAME
					Silicates	Carbonates	Sulphides	Other	
299-05	pale grey; bleached in part	clastic, locally fine-scale bedded, well foliated, distinct lamination in places unsharpened	0.1-0.2 silty-muddy layers < 0.05mm	mainly fine sandy with darker silty beds (5% of chips); mafic poor - very weakly silicified??	10% colorless fty sand 80-85% plag sand 5-10% chlorite variably sericite	Nil	2% primary pyrite mainly as thin films painted on bedding planes	No Fe/Ti oxides	Graywacke + siltstone
300-02	pale grey green	clastic: no discernible bedding. Well foliated weakly shaly few schistose chlorite-sericite slip planes.	0.1-0.8mm	poorly sorted fine to medium sandy	20% colorless to blue fty sand 80-85% plag. sand 20% chlorite variably sericite	7% disseminated calcite	Nil	traces leucocene	Graywacke
301-06	pale green - beige (weathered)	well to moderately foliated: weakly shaly - transposed pheno-crysts	< 0.5mm; phenos 0.1-0.3	plag. micro-perphyritic; ~20% sub-to anhedral plag. phenos. in a very fine feldspathic matrix - lots of qz, embedded mainly some phenos (plag) suggests volcanic	phenos plag - 12-20% green druses feldspathic, < 50% visible chlorite, 17% sericite	fair traces disseminated calcite	Nil	No Fe/Ti oxides	Andesite
302-01	pale grey, bleached	poorly foliated; unsharpened	0.1-0.5	granular, sandy bedded, heavy texture	plag + lithics - 65% (unif. fine-grained) qz - 15-20% chlorite 2 sericite - 5-7%	70% calcite disseminated	0.5% pyrite finely disseminated	No Fe/Ti oxides	Graywacke
303-01	medium green; bleached in part & weathered	well foliated; 2% qz. - bi-mbts	0.05-0.1mm	equigranular and interlocking; moderately soft clay altered	50:50 clay altered plag versus chlorite / ± chloritized pyx.	1% or less, calcite with qz. in - lots	Nil	No Fe/Ti oxides	Basalt

SAMPLE NUMBER	COLOUR	STRUCTURE	GRAIN SIZE (mm)	TEXTURE	MINERALOGY				NAME
					Silicates	Carbonates	Sulphides	Other	
304-03	mottled green pink white (weak Fe stain)	massive unsheared	0.5-3.0	hypidiomorphic matrix chloritized	plag: 45 qtz: 30-35 hb + biot: 20% (chloritized) epidote 5-7%	Nil	Nil	1% beige leucokene (after sphene)	Tonalite
305-10	dark green to black	unquenchd moderately well foliated and linated. 1% mm scale dusty qz + calcite stamens w. epidotized minerals	0.3-0.6	weakly plag. phyric recrystallized amphibolite facies metamorphism	plag: 30% hornblende: 70%	Nil	Nil	no Fe/Ti oxides Trace matrix Cu in stamens	Basalt (amphibolite)
306-04	mottled green and white	massive to weakly foliated in places. (grainified)	1-3 mm	hypidiomorphic matrix unchloritized	plag: 45-50 qtz: 30 hb + biotite: 15 (chloritized) epidote: 5	1% dissemtl calcite	Nil	1% beige leucokene after sphene.	Tonalite
307-01	beige pink (hematite stained)	quenched well foliated weakly sheared massive microfractured	G. mass aphanitic phenos: to 1.5mm	v. weakly plag. ^{and quartz} phyric aphanitic quartzo- feldspathic groundmass	Phenos: plag: <1% qz: 1-2% G. mass: plg. - feldspathic with 5-10% sericite	Trace calcite infilling microfractures Tr. hornblende	Trace disseminated pyrite	≠ No Fe/Ti oxide	Rhyolite
307A-02	mottled green and pink white (v. weak hematite stain)	massive unsheared	0.6-3.0	hypidiomorphic	plag: 45% qtz: 30% biot + chlorite: 20% epidote: 5%	Nil	Nil	Tr. dissemtl copper	Tonalite

SAMPLE NUMBER	COLOUR	STRUCTURE	GRAIN SIZE (mm)	TEXTURE	MINERALOGY				NAME
					Silicates	Carbonates	Sulphides	Other	
308-02	mottled pale & dark green and white	coarse granitoid moderately well foliated gneissic: matrix rich versus matrix poor bands	0.6-3.5mm	hypidiomorphic	plag: 40%-45% qtz: 30% hornblende: 5% biotite: 10-15% epidote: 7%	Tr. disseminated calcite	Trace disseminated pyrite	0.5% large leucosomes after sphene	Tonalite
309-01	mottled dark green to black & white	Unquenched poorly foliated unshaded	0.3-0.6	equigranular interlocking lower amphibolite facies metamorphic (recrystallized) plagioclase hornblende	plag: 45% hb: 30% chlorite & actinolite: 25%	Trace disseminated calcite	Nil	Nil	Basalt (amphibolite)
310-02	pink to pale green	very strong planar foliation but not schistose; sheared (moderate to strong) and mylonitized Similar to RR-95-99	G. Mass 0.05-0.1mm surrounding qtz to 0.6mm -03	hard, qtz feldspathic sugary (mylonitized) granular; a few helict qz grains or phenocrysts; matrix grain size variations & composition may define a poor bedding or other structural features	qtz-feldspathic (hard) chlorite - 1-2% muscovite - 0.5% as coarse flakes plagioclase 0.5% tourmaline; possible trace chlorite	Nil	faint trace pyrite lining foliation planes	trace fine large disseminated leucosomes	Gneiss/siltstone (sheared) (possibly very strongly sheared tonalite)
311-04	mottled dark green and white (minor pink hematite staining)	poorly foliated; unshaded	0.5-5mm	inequigranular hypidiomorphic	plag - 40% qtz - 25% chlorite - 20-25% (variably after hornblende or biotite) epidote - 8-10%	Nil	Nil	10% sphene, partly or wholly replaced by leucosomes	Tonalite
312-01	mottled green and pinkish white	well to moderately foliated; poorly sheared - closely spaced slip planes; minor mylonitization	0.5-4mm	hypidiomorphic	plag - 50% qtz - 25% chlorite - 20% (variably after hornblende) epidote - 5%	Nil	Nil	0.5% leucosomes	Tonalite

SAMPLE NUMBER	COLOUR	STRUCTURE	GRAIN SIZE (mm)	TEXTURE	MINERALOGY				NAME
					Silicates	Carbonates	Sulphides	Other	
312A-03	mottled dark green to pink white (minor hematite staining)	well foliated - weakly sheared and mylonitized, most faulting crushing & reduction in grain size	0.1 (mylonitic) to 0.3 (primary)	hypidiomorphic, composed locally by shearing / mylonitization	plag - 40-50% qz - 25-30% chlorite - 15-20% epidote - 5%	Nil	Nil	1% pale brown 10% coarse after splene	Tonalite (weakly sheared)
313-05	pale to medium green - weathered	Quenched strongly foliated to sub-orthogonal; strongly lined	6mass 0.05-0.15 phenos 0.3-1.0mm	weakly plagioclase (augens in places) in fine quartz-feldspathic ground mass	plag: 75% chlorite: 25%	Nil	Nil	No Fe/Ti oxides	Andesite (Amphibolite)
314-01	medium green	Unquenched moderately well foliated, lined unshaded	0.1-0.2	inequigranular; interlocking; partly saussuritized; weakly metamorphically re-equilibrated; plagioclase, hornblende, actinolite	plag: 65% hornblende: 25% actinolite chlorite: <5% epidote - 5-7%	Nil	Nil	No Fe/Ti oxides	Andesite
315-04	Surviving white kaolinitic clay soft and fields pathic	"chips" are 95% combined kaolinitic clay; traces of manganese clay altered displaying a primary foliation / schistosity. Primary composition appears to be chlorite but overprinted by Tertiary unshaded	Much of sample ground to grey-white kaolinitic clay	and associated clear quartz often with attached pale grey green, very siliceous. Primary composition probably basalt.					Serpentinite - minor foliated, clay altered Basalt??) chips
316-03	green	massive to very poorly foliated; unshaded; unquenched	0.15-0.5	inequigranular, interlocking volcanic texture; mafics coarser than plag.	plag - 45% pyroxene - 50% (green partly to completely chloritized) qz - <1%	3% calcite disseminated	0.5% pyrite - disseminated		Basalt

SAMPLE NUMBER	COLOUR	STRUCTURE	GRAIN SIZE (mm)	TEXTURE	MINERALOGY				NAME
					Silicates	Carbonates	Sulphides	Other	
316-04	pale grey green (weak bleaching)	Schistose; moderately sheared; several 90° carbonate wrinkles but sample pervasively carbonatized	<0.1mm	relict equigranular, interlocking volcanic texture overprinted by strong fabric and carbonate decubally prominent; may be vaguely plag. micro-phyric	plag - 55-60% chlorite - 25-30% (grey to pale & dark green - probably includes some sericite)	12-15% calcite - pervasive	Nil	-	Basalt (sheared)
317-02	medium green	unquenched schistose; weakly sheared; mildly sericitized slip planes Trace fawn malin	0.1-0.2	relict equigranular interlocking volcanic texture overprinted by	plag 45-50% chlorite: 40% (variably sericite) fawn malin: Tr.	15% calcite pervasive	Nil	No Fe/Ti oxides	Basalt (weakly sheared)
318-03	bleached; pale grey green } rusty (weathered slip)	schistose; strongly sheared - sericite schist bleached	0.05-0.15 plag plenes to 1.2mm	relict equigranular interlocking volcanic texture overprinted by strong fabric; indistinctly plag. phytic (10% + striated pseudocrystals)	plag: 50%-55% sericite: 30% chlorite: 5% Tr. fawn malin	10% Fe/Mg carbonate 5% calcite.	Trace disseminated pyrite.	Trace disseminated magnetite & fine disseminated hematite Fe oxides	Andesite (sheared) (sericite schist)
319-04	pale grey to medium green (weathered)	unquenched well foliated weakly sheared few schistose chlorite + sericite slip planes (sample mainly bleached - green rock along - non calcareous)	0.1-0.2	equigranular interlocking some chips are clay altered with attached siderite nodules due to mesoepic weathering.	plag: 55% (completely clay altered) chlorite: 40-45% (variably sericite)	Nil	Nil	No Fe/Ti oxides	Basalt(?) + Saponite
320-10	medium grey to green	finely foliated to sub-schistose; moderately sheared - producing a local near banded appearance 5% calcite + qz veins	0.05-0.1	relict equigranular & interlocking texture; overprinted by strong fabric and carbonate decubally prominent; some chips display a fine banding reminiscent of siltstone but is probably structural	undifferentiated plagioclase ± qz chlorite (green to grey, may include some pale sericite)	5-10% calcite veins & disseminations 10% Fe-carb disseminated	5% pyrite - mostly as local fine grained beamy concentrations in foliated, oriented chips; some as "spongy" along foliation		Basalt (sheared, carbonatized, pyrite)

APPENDIX VI

DRILL HOLE SECTIONS

Rainy River Project
Work Report
1996 Reverse Circulation Drill Data
Paul Jones, Project Geologist
July 22, 1996

LEGEND

Quaternary Stratigraphy

- 5 HOLOCENE
Organics (peat)
- 4 PLEISTOCENE
LATE WISCONSINAN
Keewatin Till
- 3 Lake Agassiz Sediments
3c - glaciolacustrine clay member
3b - glaciolacustrine sand member
3a - glaciolacustrine member
- 2 Embryonic (Labradorean) Lake Agassiz Sediments
2c - glaciolacustrine clay member
2b - glaciolacustrine sand member
2a - glaciolacustrine member
- 1 Labradorean Till

Sediment Varieties

- P Peat
- C clay, silt
- S Sand
- G Gravel
- ST Sand-silt fill, clay subordinate
- CT Clay fill

Symbols

- Quaternary/bedrock unconformity
- Interglacial unconformity
- Quaternary unit boundary
- Quaternary sub-unit boundary

Geochemistry

ST | * * * * *
Sand-silt fill interval with 5 gold grains, 130 ppb Au, 78 ppb As, 465 ppm Cu, 54 ppm Zn and 43 ppm Ni in the nonmagnetic mineral fraction (SG > 3.3); "-" = less than detection limit

Bedrock Lithologies

- 14 CRETACEOUS
Gravel, silica sand
- 13 JURASSIC/CRETACEOUS
Shale
- 12 MESOZOIC/PRECAMBRIAN
Saprolite
- 11 PROTEROZOIC
Diabase
- ARCHEAN
Plutonic Rocks
10 Quartz monzonite
9 Trondhjemite and associated pegmatite
8 Tonalite
- 7 Subvolcanic Intrusives and Dykes
Feldspar porphyry, quartz-feldspar porphyry
- 6 Gabbro
- 5 Clastic sedimentary rocks
5a - greywacke; 5b - siltstone/mudstone
- 4 Volcanic Rocks
Rhyolite
3 Andesite, dacite
2 Basalt
1 Komatiite

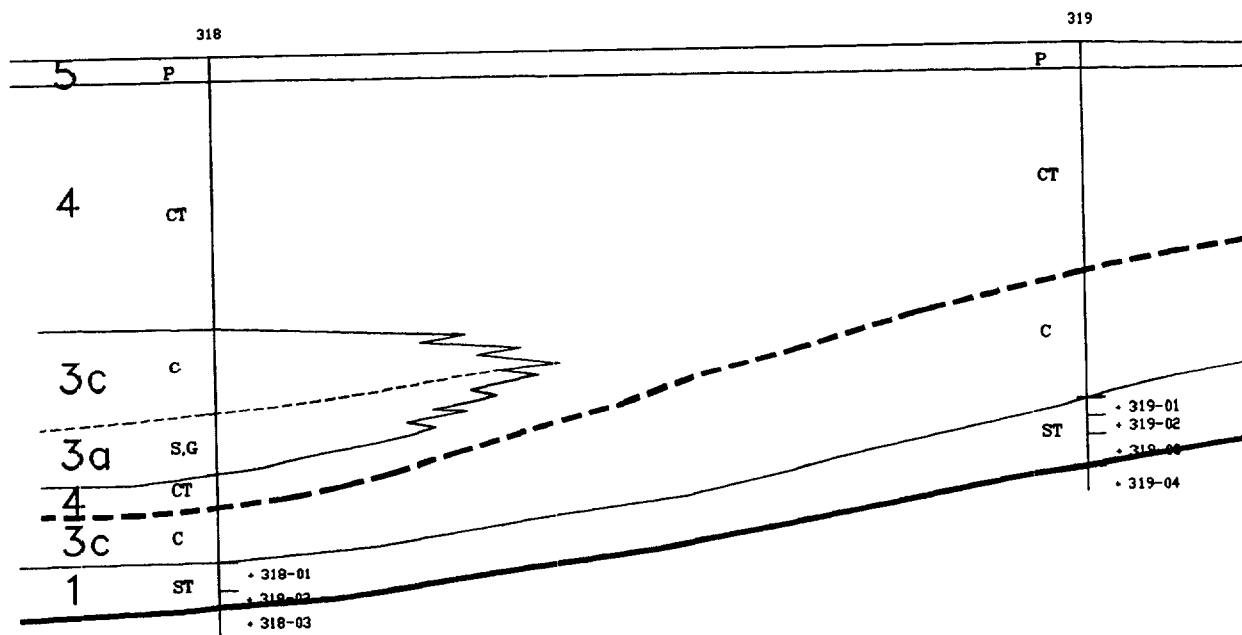
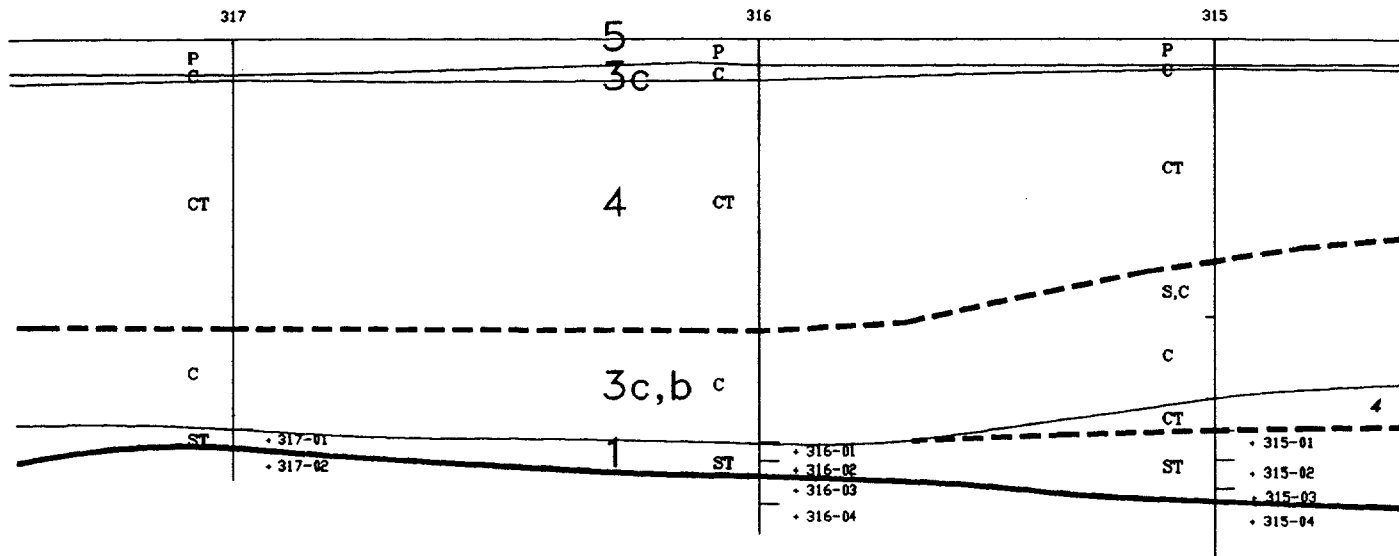
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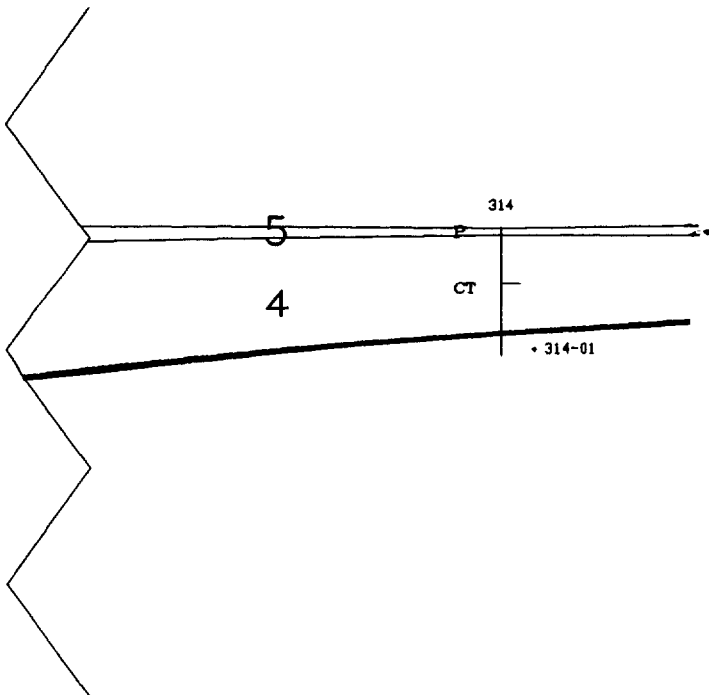
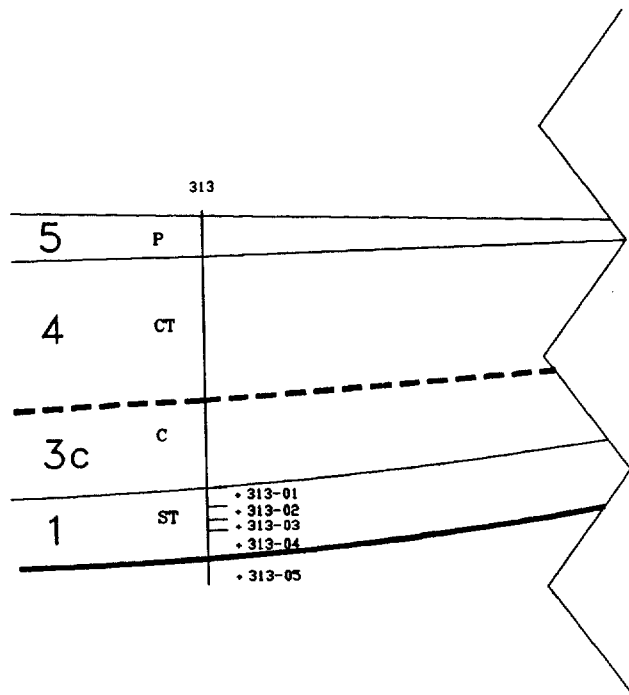
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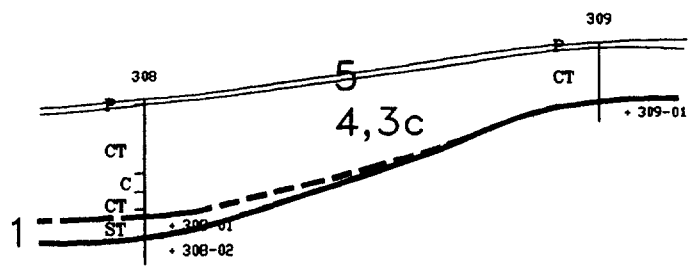
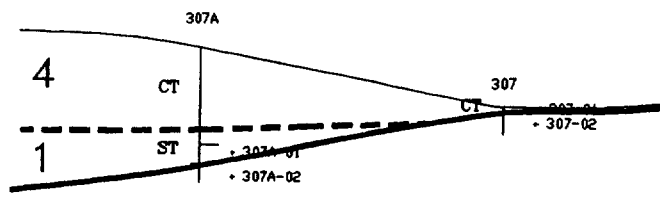
NUINSCO RESOURCES LIMITED
RAINY RIVER PROJECT, ONTARIO

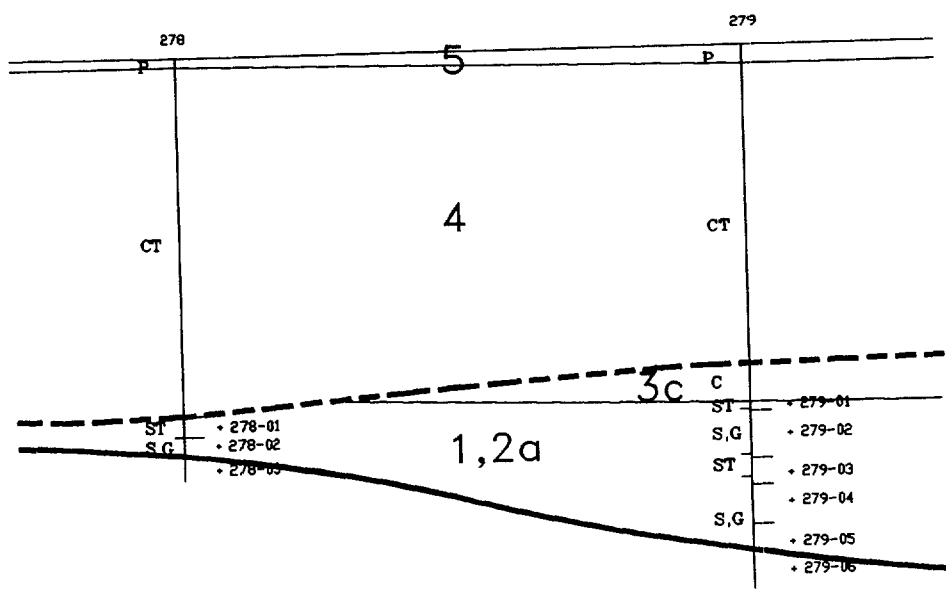
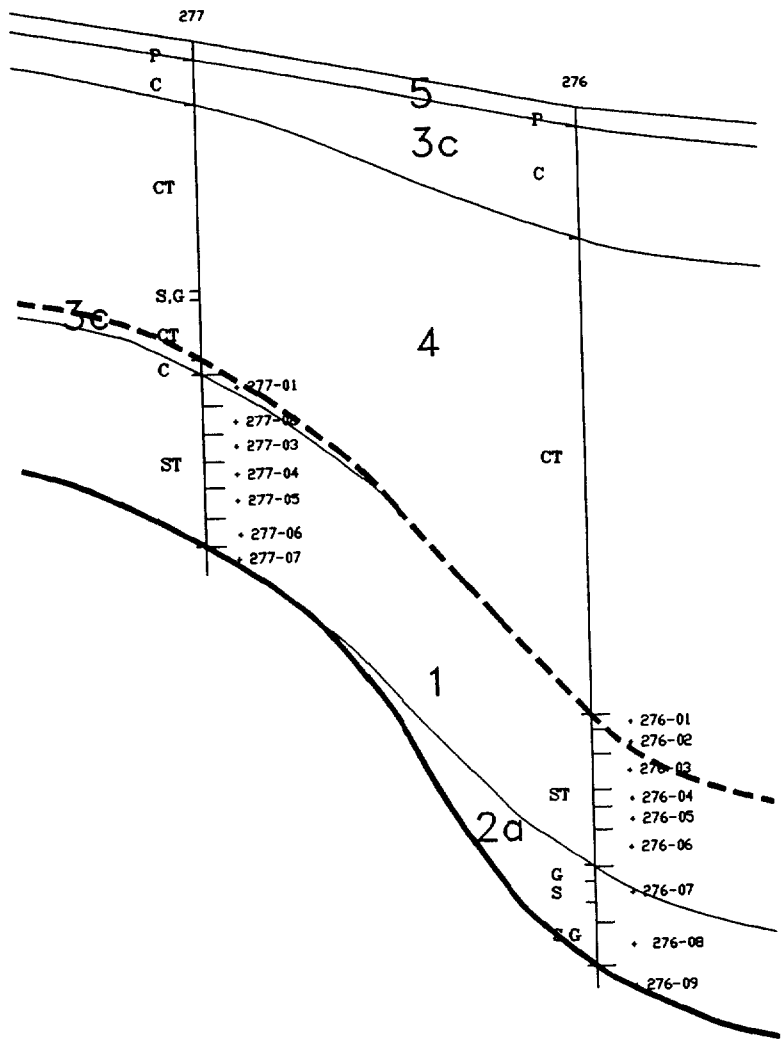
REVERSE CIRCULATION DRILL SECTIONS

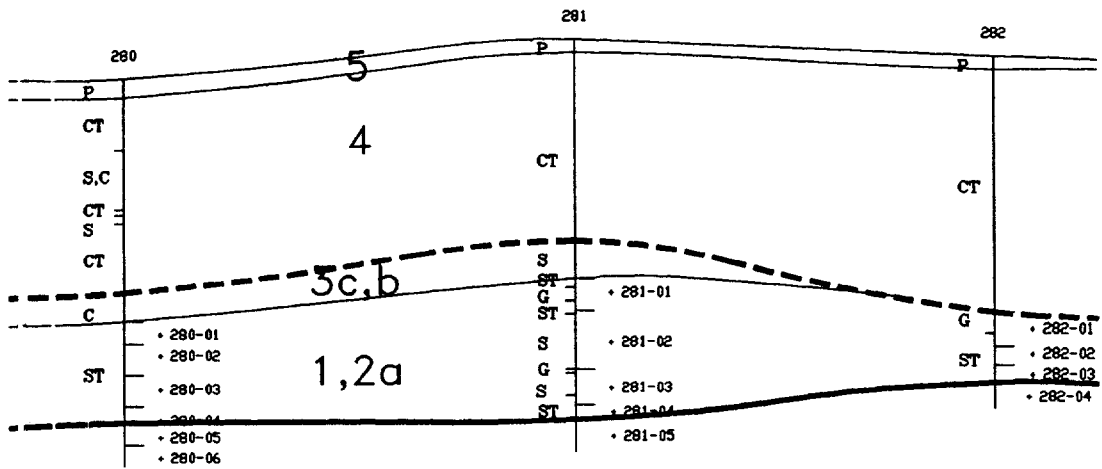
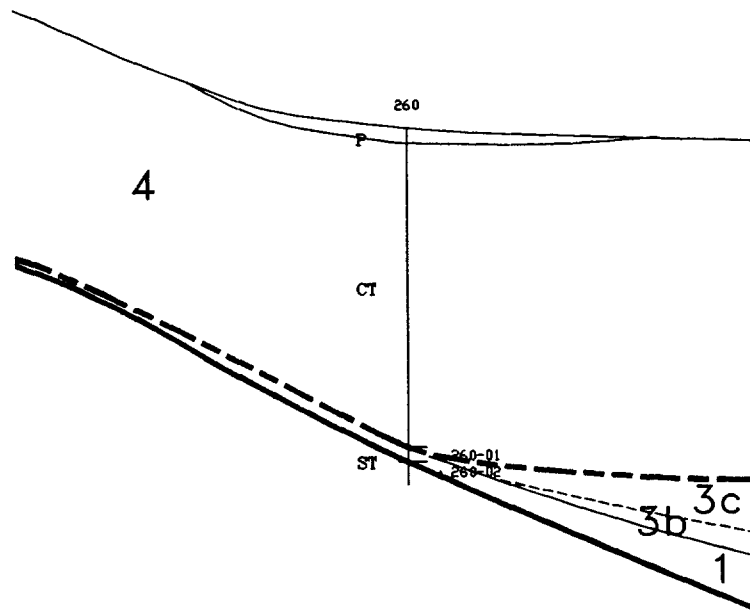
OVERBURDEN DRILLING MANAGEMENT LIMITED
JULY, 1996

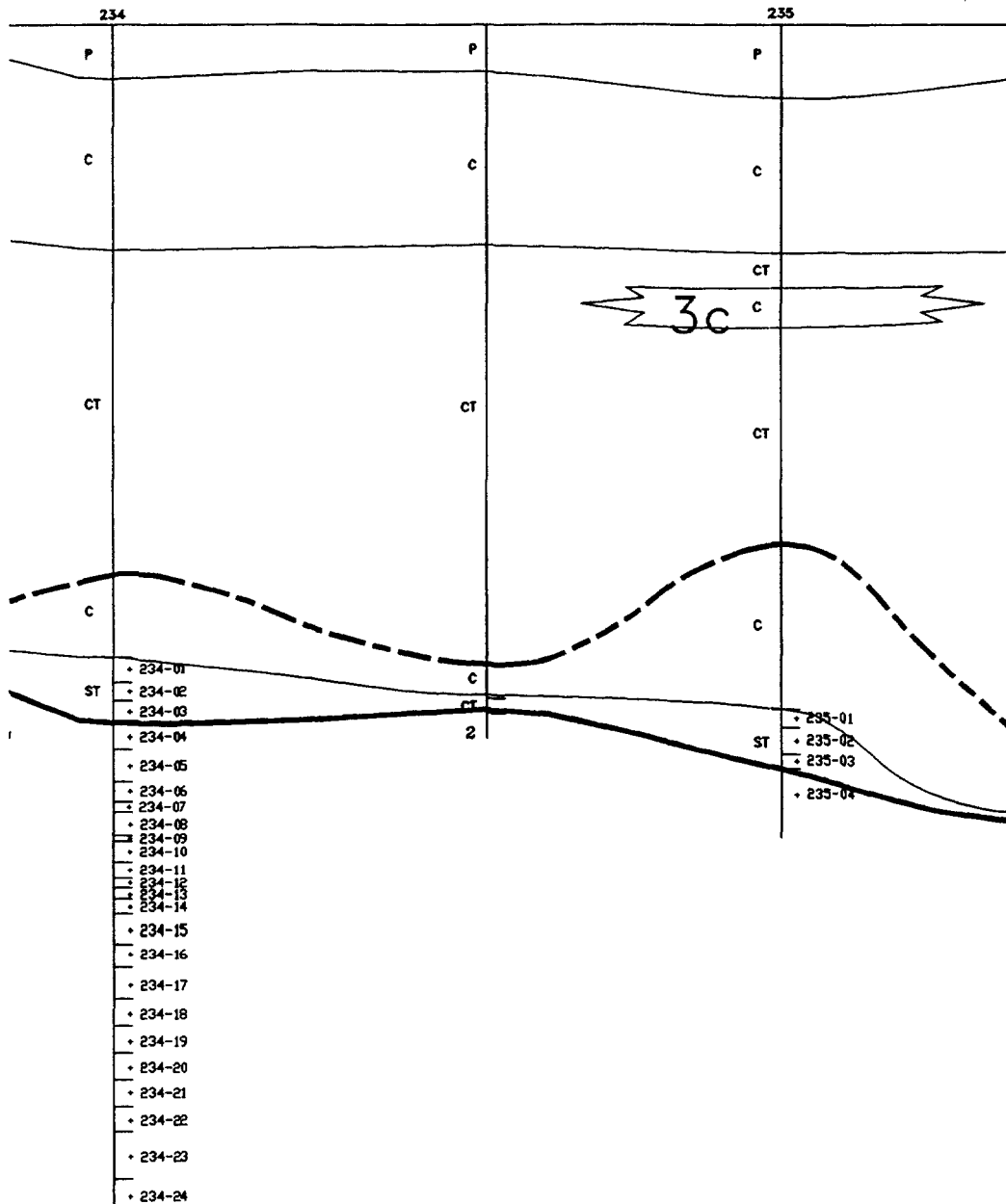


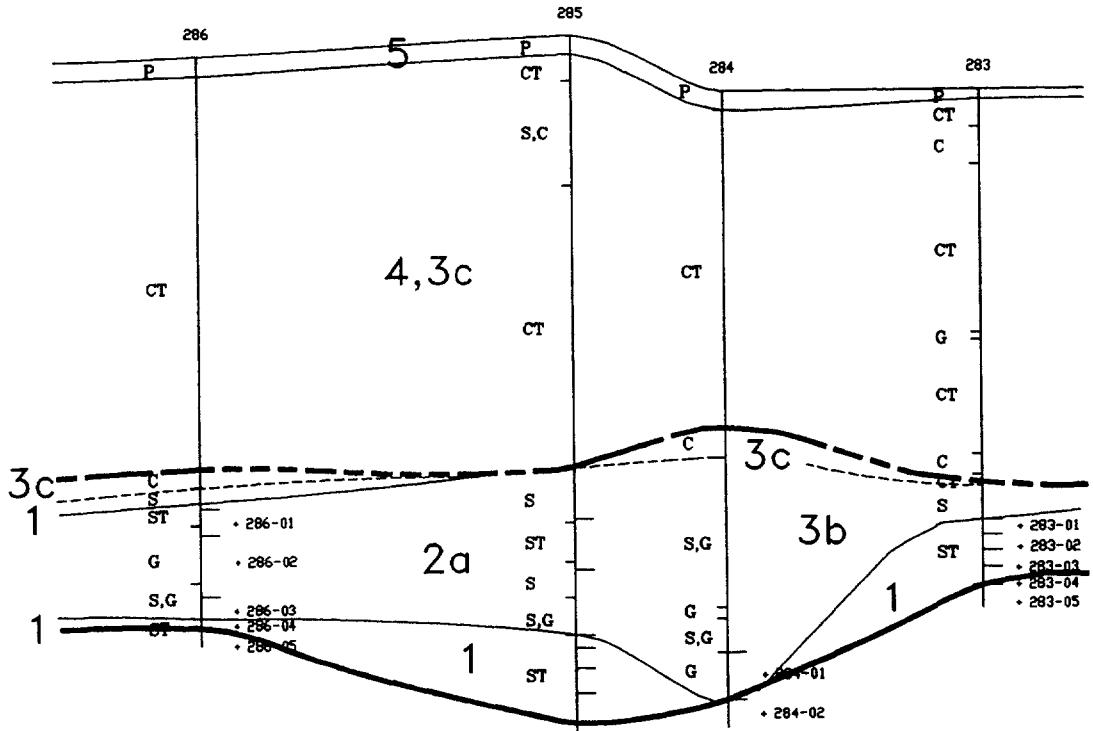




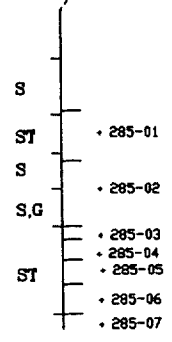


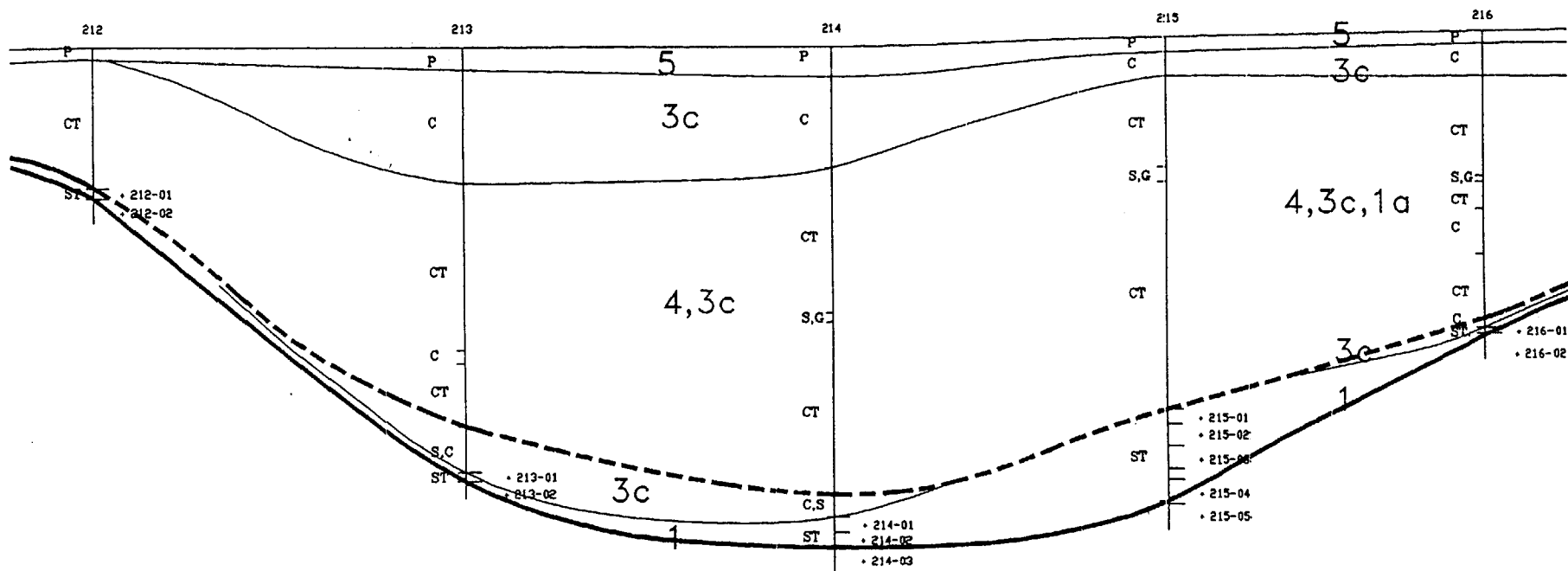






285 assays





NUINSCO RESOURCES LIMITED

Richardson Township Project

(March/April 1996, Diamond Drilling)

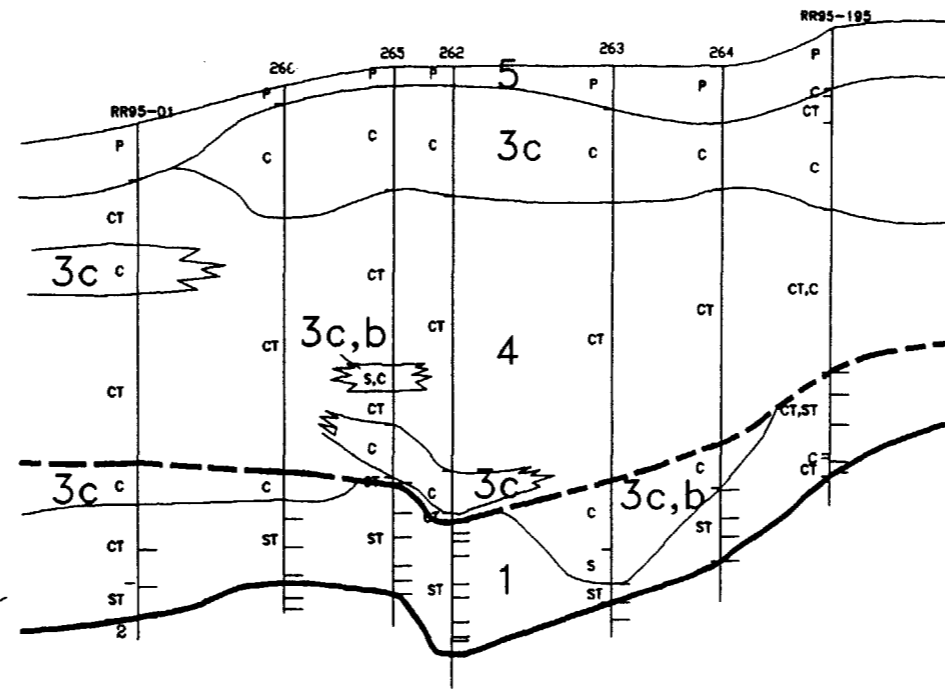
**Rainy River District
Kenora Mining Division
N.T.S. 52 C/13 and 52D/16**

Paul Jones
Project Geologist

POCKET

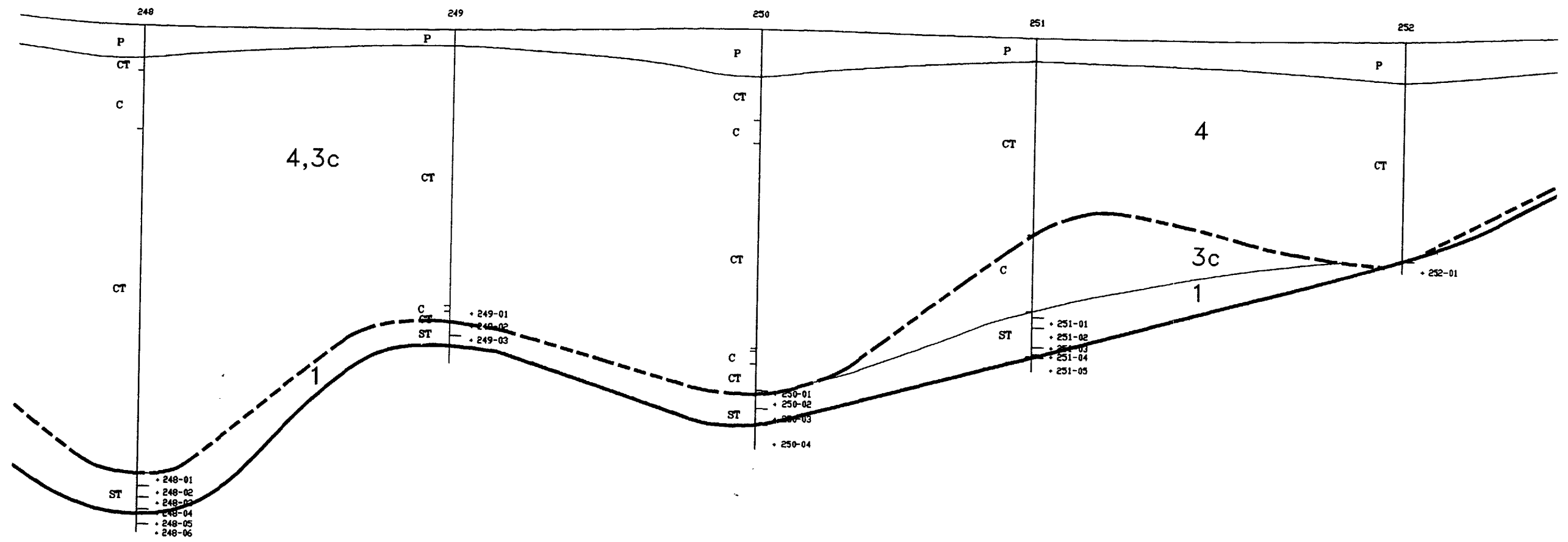
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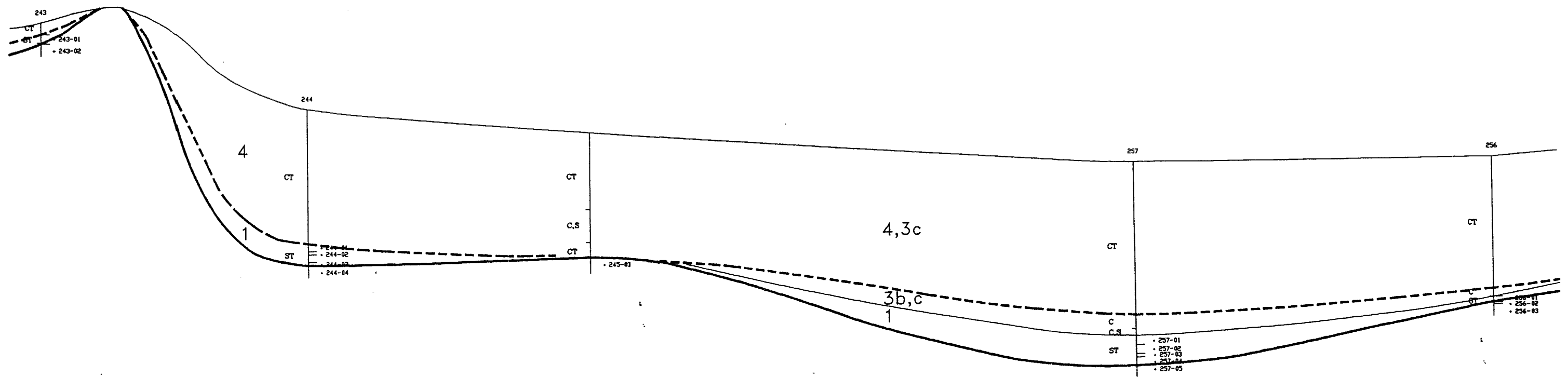
DIAMOND DRILL HOLE SECTIONS

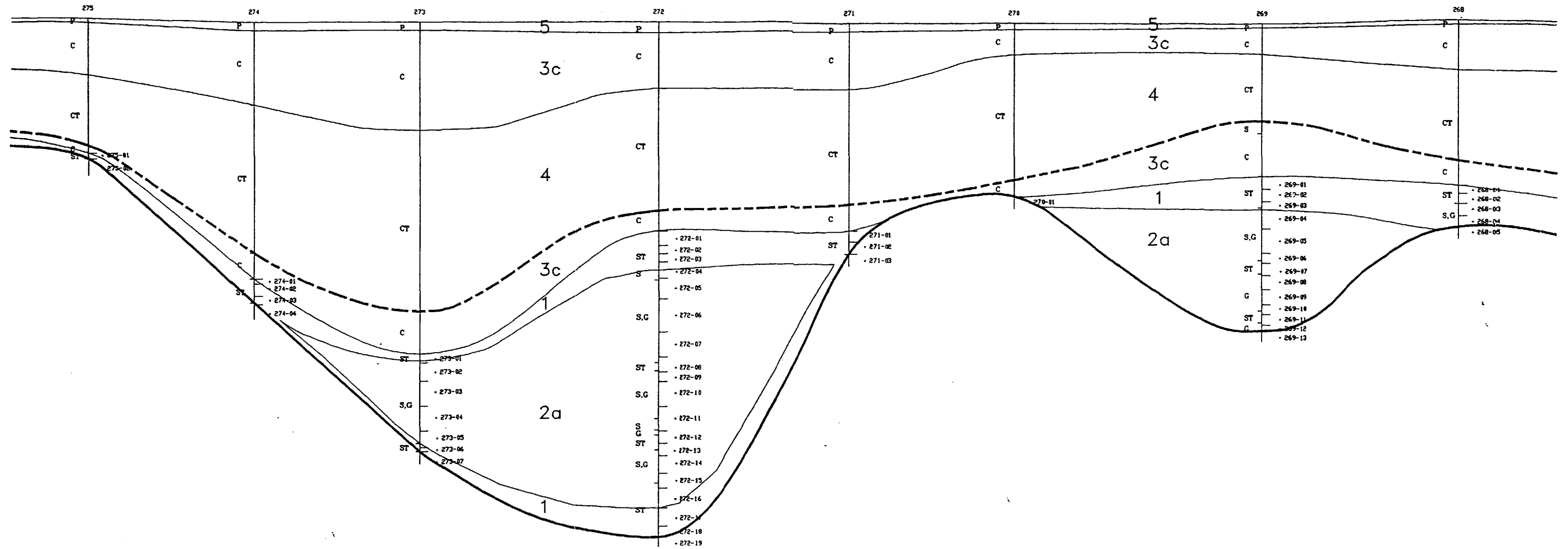


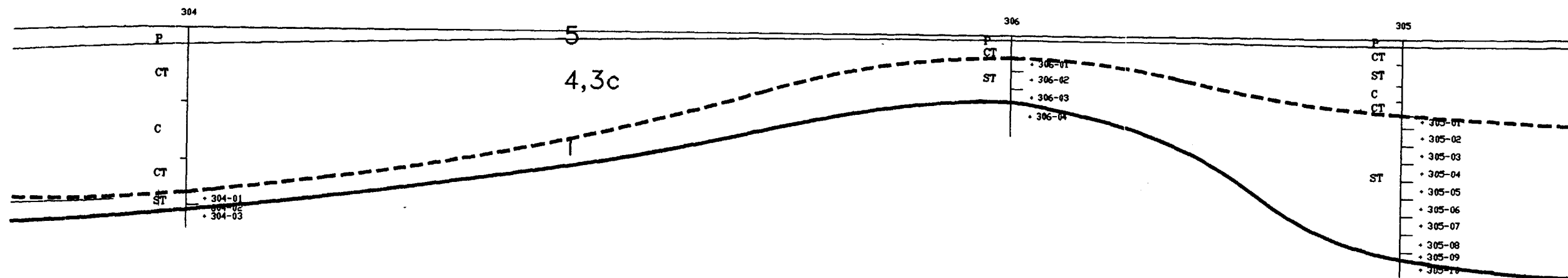
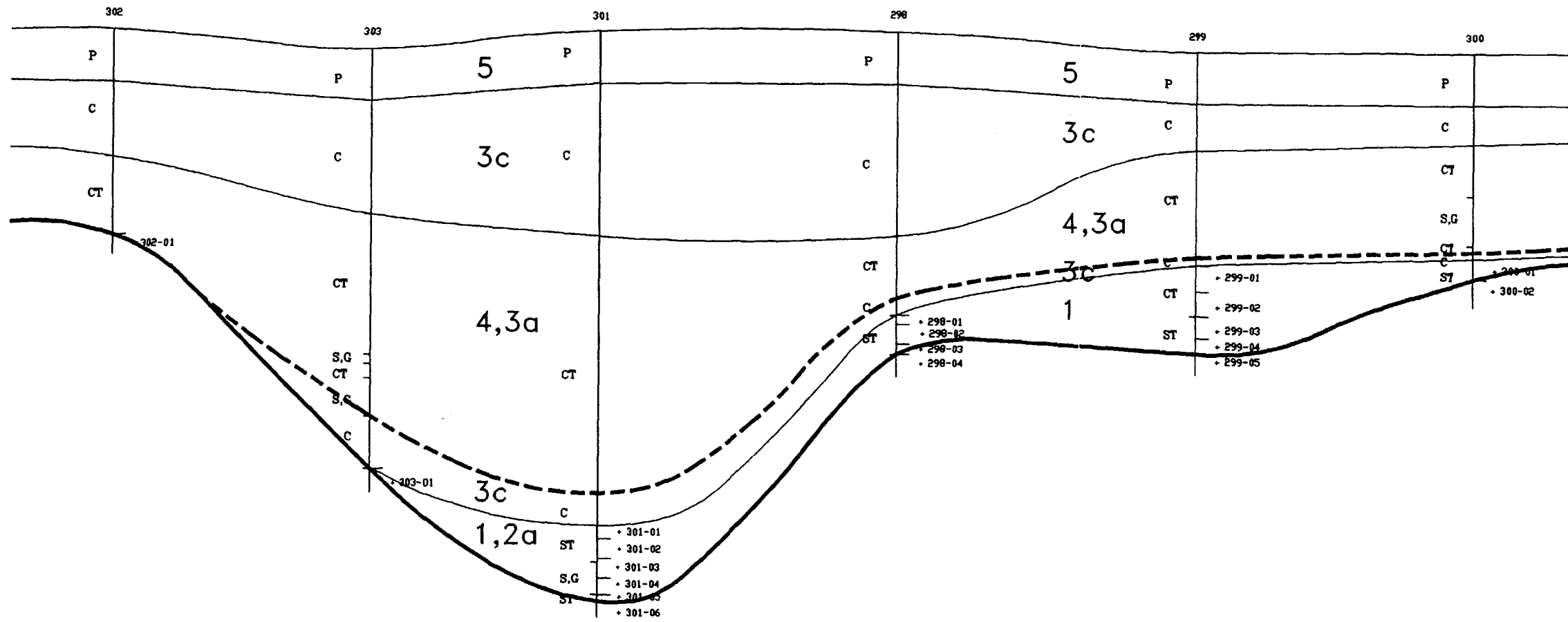
ASSAYS

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ST		ST	S	ST	CT
2					
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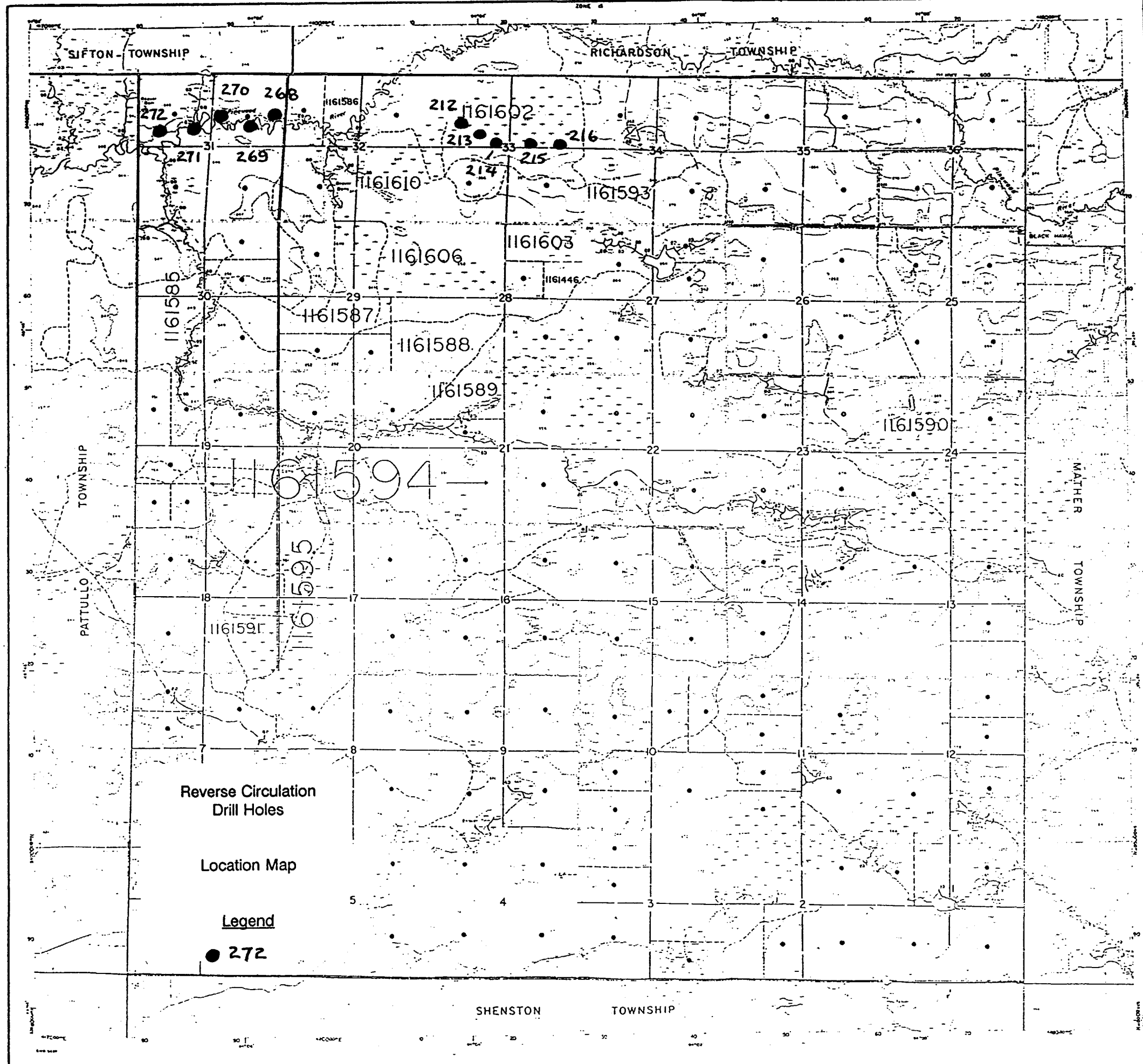




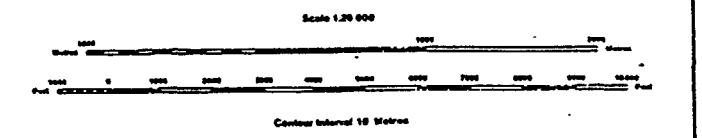
MAP POCKET

LOCATION MAPS REVERSE CIRCULATION DRILL HOLE COLLARS

Rainy River Project
Work Report
1996 Reverse Circulation Drill Data
Paul Jones, Project Geologist
July 22, 1996



INDEX TO LAND DISPOSITION
 PLAN G-3837
 TOWNSHIP TAIT
 M.A.R. ADMINISTRATIVE DISTRICT FORT FRANCES
 MINING DIVISION KENORA
 LAND TITLES/REGISTRY DIVISION RAINY RIVER



THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WHOSE INTERESTS ARE AFFECTED BY THIS MAP SHOULD CONSULT WITH THE APPROPRIATE AGENCIES OF THE FEDERAL GOVERNMENT AND MINES FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

AREAS WITHDRAWN FROM DISPOSITION
 MRO - Mining Rights Only
 SRO - Surface Rights Only
 M - S - Mining and Surface Rights

SYMBOLS

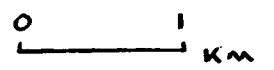
Boundary	.....
Township, Meridian, Baseline	.....
Road, surveyed	.....
shoreshore	.....
Land, surveyed	.....
unsurveyed	.....
Parcel, surveyed	.....
unsurveyed	.....
Right-of-way, road	.....
canal	.....
utility	.....
Reservation	.....
CR, PR, PIR	.....
Contour	.....
Interpolated	.....
Apparent	.....
Depression	.....
Contours on 10m interval	.....
Floored land	.....
Micro head frame	.....
Pile or pile drive ground	.....
Railway, single track	.....
double track	.....
Abandoned	.....
Road, highway, County, Township	.....
Access	.....
P&L, Survey	.....
Shoreline (Original)	.....
Transmission line	.....
Wooded area	.....

NOTES
 NO SURFACE RIGHTS RESERVED ALONG THE SHORES OF ALL LAKES AND RIVERS.
 THIS POSITION LIES WITHIN THE CORPORATE LIMITS OF THE TOWNSHIP OF TAIT.

DISPOSITION OF CROWN LANDS

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

DATE OF ISSUE
 SEP - 5 1985
 KENORA
 MINING DIVISION



TAIT TWP.

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

⊙ reserved for reforestation purposes. 8 Mar '55 File: 11261

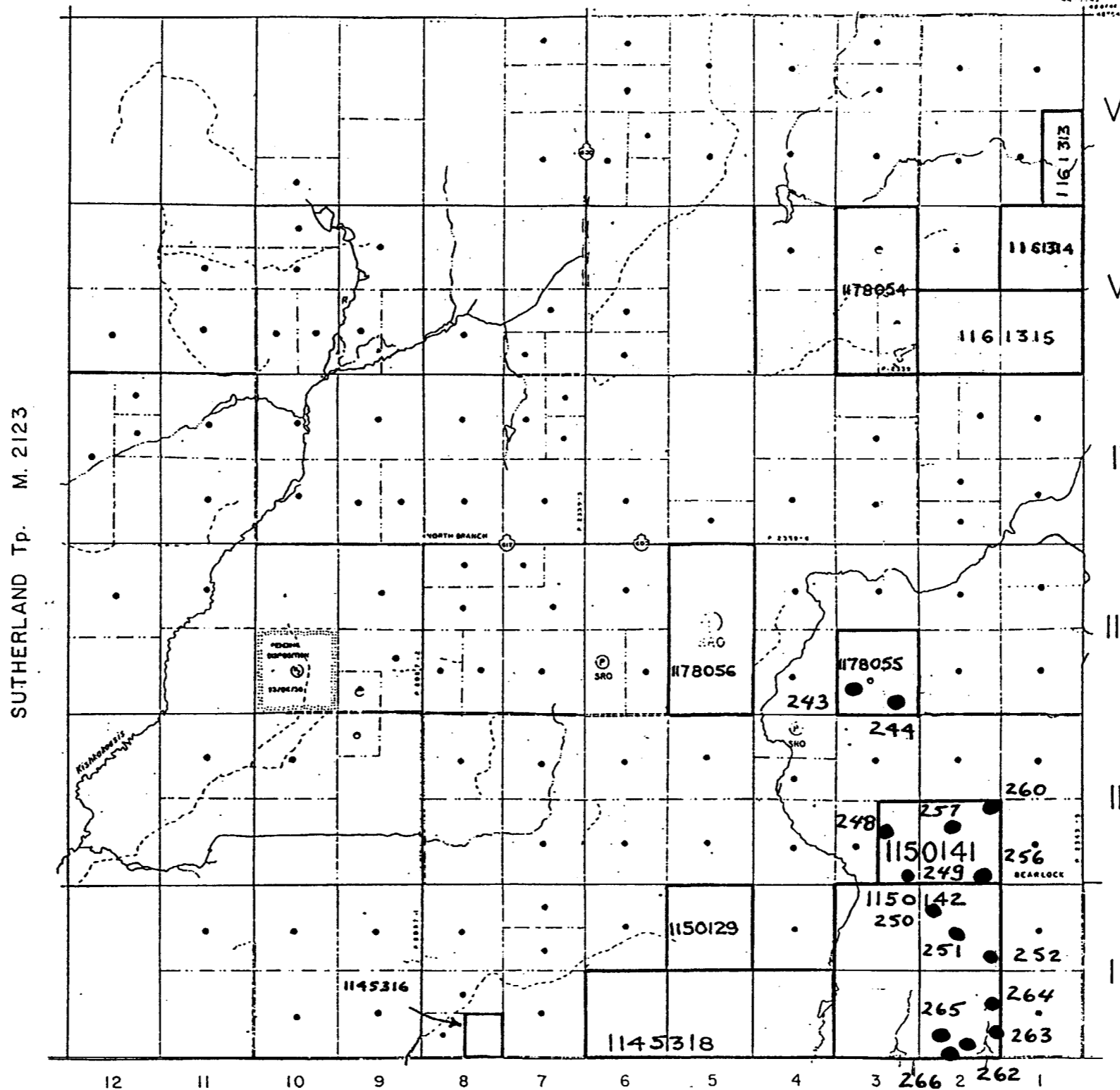
Reverse Circulation Drill Holes

Location Map

Legend

● 243

DEWART Tp. M. 2077

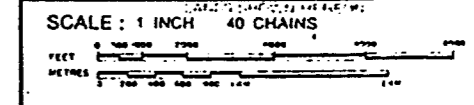


FIGURE

- ROADWAY AND ROUTE NO. CHAIN MARKING
- TRAILS
- SURVEYED LINES
 - TOWNSHIP'S 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 THE INFORMATION THAT APPEARS ON THIS MAP ORDER-IN-COUNCIL HAS BEEN COMPLETED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THESE PERSONS WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING DEPARTMENT, NORTHERN DEVELOPMENT AND MINES, FOR ALL NECESSARY INFORMATION ON THE STATUS OF THE LANDS.	CS
RESERVATION	OC
CANCELLED	⊙
SAND & GRAVEL	⊙



ACRES HECTARES

40 16

DATE OF ISSUE
SEP - 5 1995

TOWNSHIP
KENORA MINING DIVISION

SITTON

DISTRICT
RAINY RIVER

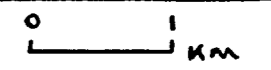
MINING DIVISION
KENORA

Ministry of Natural Resources
Ontario Surveys and Mapping Branch

Date: _____ Plan No. _____

Whitney Block
Oubsen Park, Toronto

M.2276



NOTES

400' surface rights reservation along the shores of all lakes and rivers.

This Township lies within the Corporation of the Township of Morley

Reverse Circulation
Drill Holes

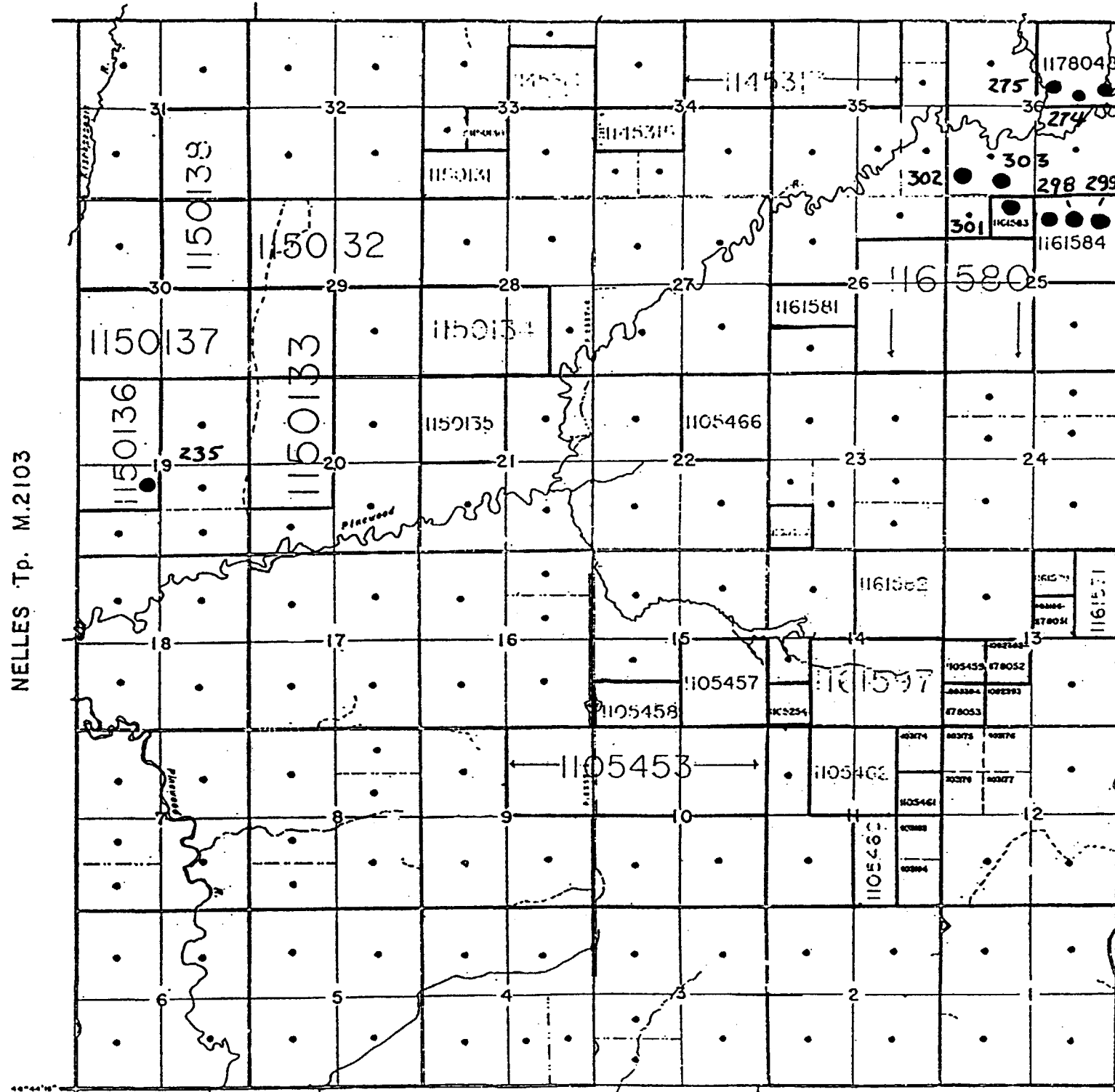
Location Map

Legend

● 303

SUTHERLAND Tp. M.2123

SIFTON Tp. M.2276



NELLES Tp. M.2103

TAIT Tp. M.2124

MORLEY Tp. M.2100

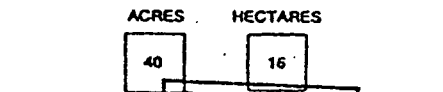
LEGEND

- 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-PERMANENT STREAM
- FLOODING OR FLOODING RIGHTS SURVEYS
- ORIGINAL SHORLINE
- 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 THE INFORMATION THAT APPEARS ON THIS MAP ORDER-IN-COUNCIL HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WHOSE CLAIMS SHOULD CONFLICT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREOF	○

SCALE: 1 INCH = 40 CHAINS



DATE OF ISSUE

TOWNSHIP SEP - 5 1995

PATTULLO
DISTRICT
RAINY RIVER
MINING DIVISION
KENORA

Ministry of Natural Resources
Ontario Surveys and Mapping Branch

Date _____ Plan No. **M.2106**



NOTES

Surface rights reservation along the shores of all lakes and rivers.

AREAS WITHDRAWN FROM OCCUPATION

M.R.O. MINING RIGHTS ONLY
 S.R.O. SURFACE RIGHTS ONLY
 M+S. MINING AND SURFACE RIGHTS

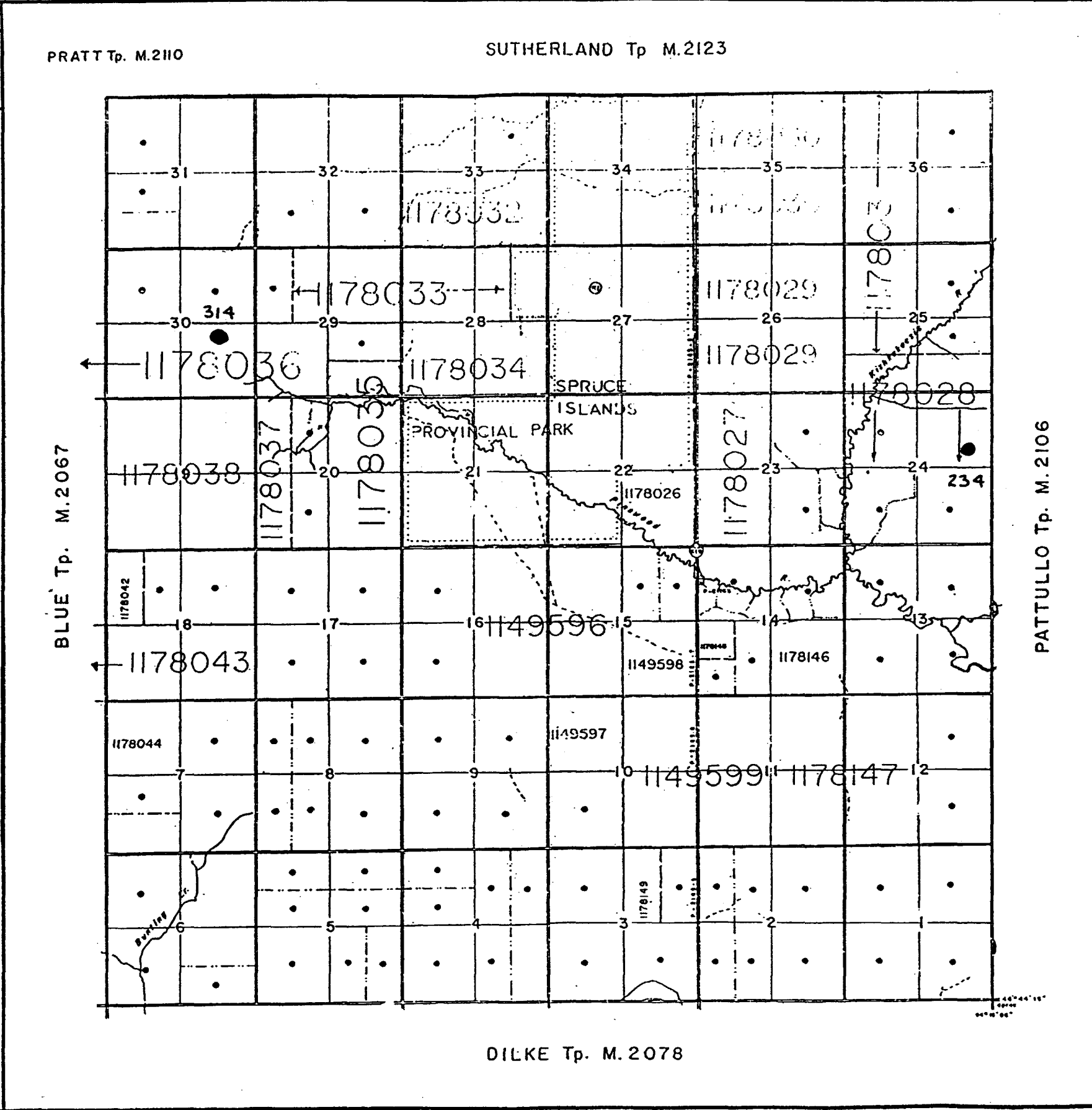
Drawn by: J. S. ...
 Date: ...
 Scale: ...

Reverse Circulation Drill Holes

Location Map

Legend

● 234



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	◇
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 CLAIMS SHOWN HEREON.

SCALE: 1 INCH = 40 CHAINS

ACRES HECTARES

DATE OF ISSUE: SEP 5 1995

TOWNSHIP: KENORA MINING DIVISION

NELLES

DISTRICT: RAINY RIVER
 MINING DIVISION: KENORA

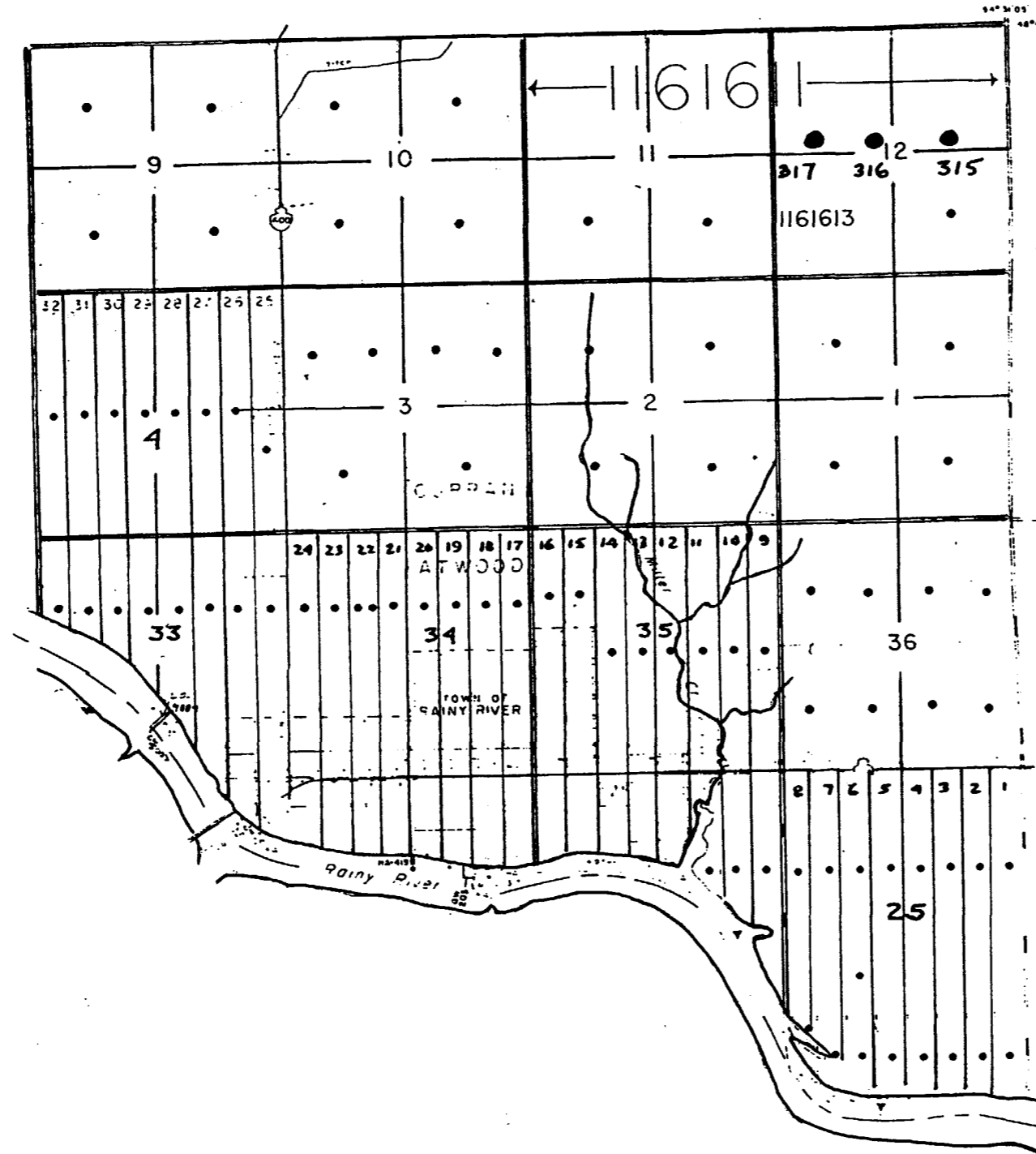
Ministry of Natural Resources
 Ontario Surveys and Mapping Branch

Date: ... Plan No. **M.2103**

0 1 KM

WILD LAND RESERVE

WILD LAND RESERVE



BLUE Tp. M.2067

WORTHINGTON Tp. M.2132

UNITED STATES OF AMERICA

Reverse Circulation
Drill Holes

Location Map

Legend

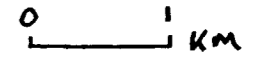
● 317



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.



ACRES	HECTARES
40	16

TOWNSHIPS
ATWOOD and CURRAN
DISTRICT
RAINY RIVER
MINING DIVISION
KENORA
DATE OF ISSUE
FEB 14 1995
KENORA MINING DIVISION

Ministry of Natural Resources
Ontario Surveys and Mapping Branch
Date _____ Plan No. **M.1601**
Whitby, Barrie, Guelph & Park, Toronto

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

This Township lies within the Corporation of the Township of Chaple.

W-K-43/93 BRMR JUNE 4/93

Reverse Circulation Drill Holes

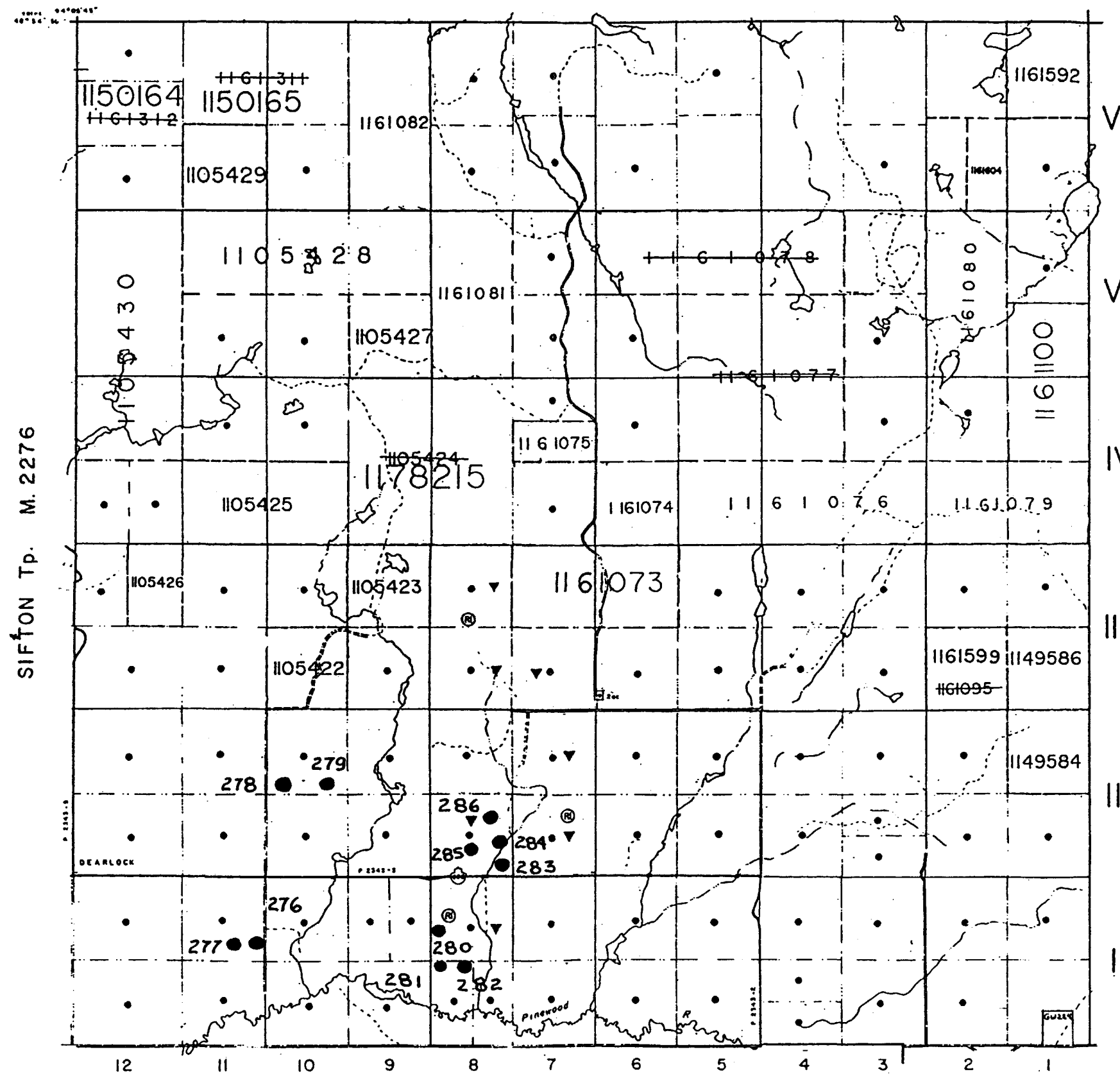
Location Map

Legend

● 279

0 1 KM

ROWE Tp. M.2118



LEGEND

- HIGHWAY AND ROUTE NO.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
 - TOWNSHIP BASE LINES ETC.
 - LOTS, MINING CLAIMS, PARCELS ETC.
- UNSURVEYED LINES:
 - LOT LINES
 - PARCEL BOUNDARY
 - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION
- ORIGINAL SHORELINE
- MARSH OR MUSKETS
- MINES

DATE OF ISSUE
JAN - 5 1996

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 | ◔ |
| RESERVATION | ◕ |
| CANCELLED | ◖ |
| SAND & GRAVEL | ◗ |
- THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES. RESERVATION 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

ACRES HECTARES

40 15

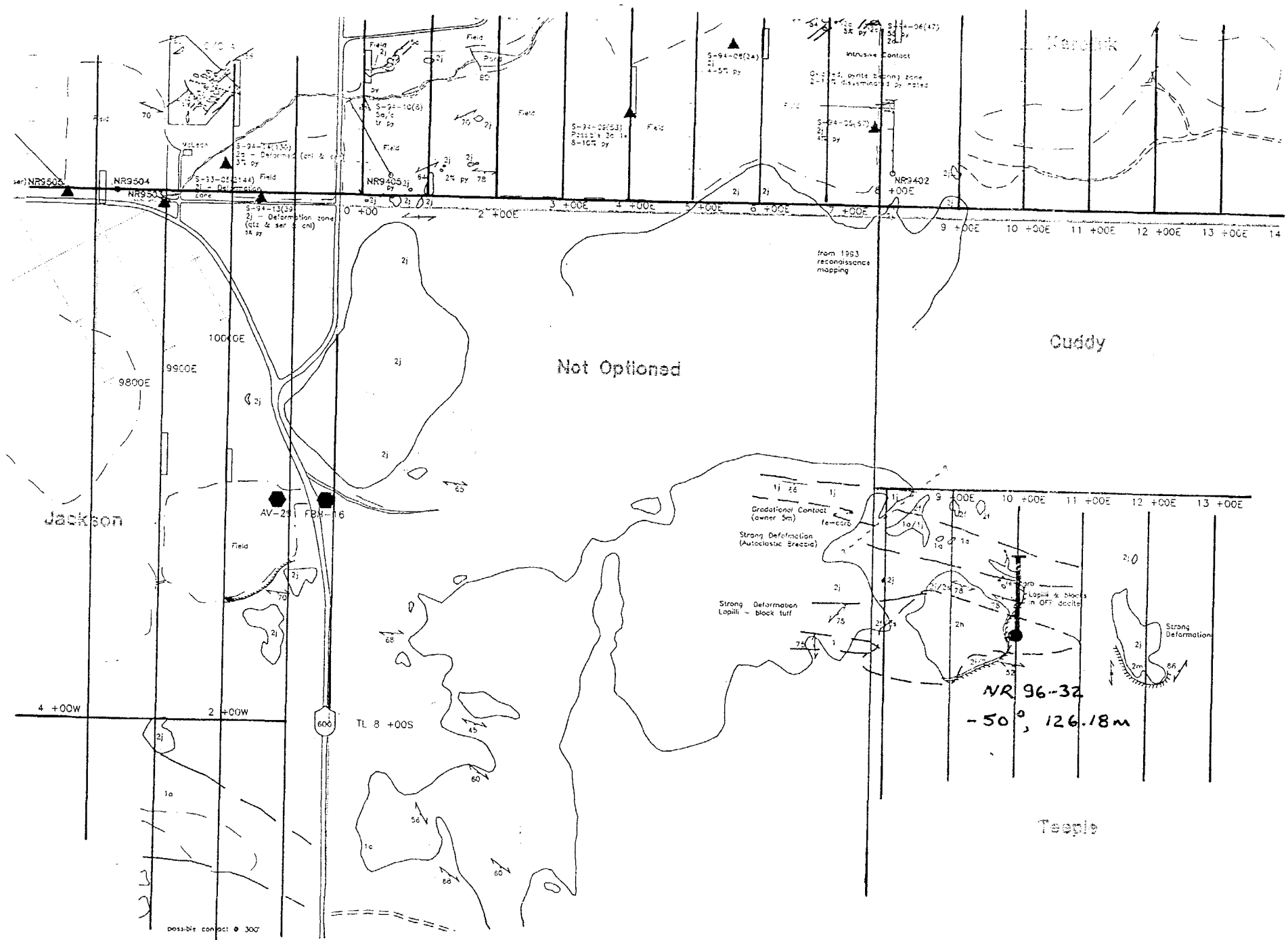
TOWNSHIP
RICHARDSON
DISTRICT
RAINY RIVER
MINING DIVISION
KENORA

Ministry of Natural Resources
Ontario Surveys and Mapping Branch
Date 4 7 95 Page No. 10

M.2115



Concession 1



NUINSCO RESOURCES LTD.

RAINY RIVER PROJECT

RICHARDSON TWP. GRID

DRILL HOLES PLAN

NORTHEAST SHEET

SCALE

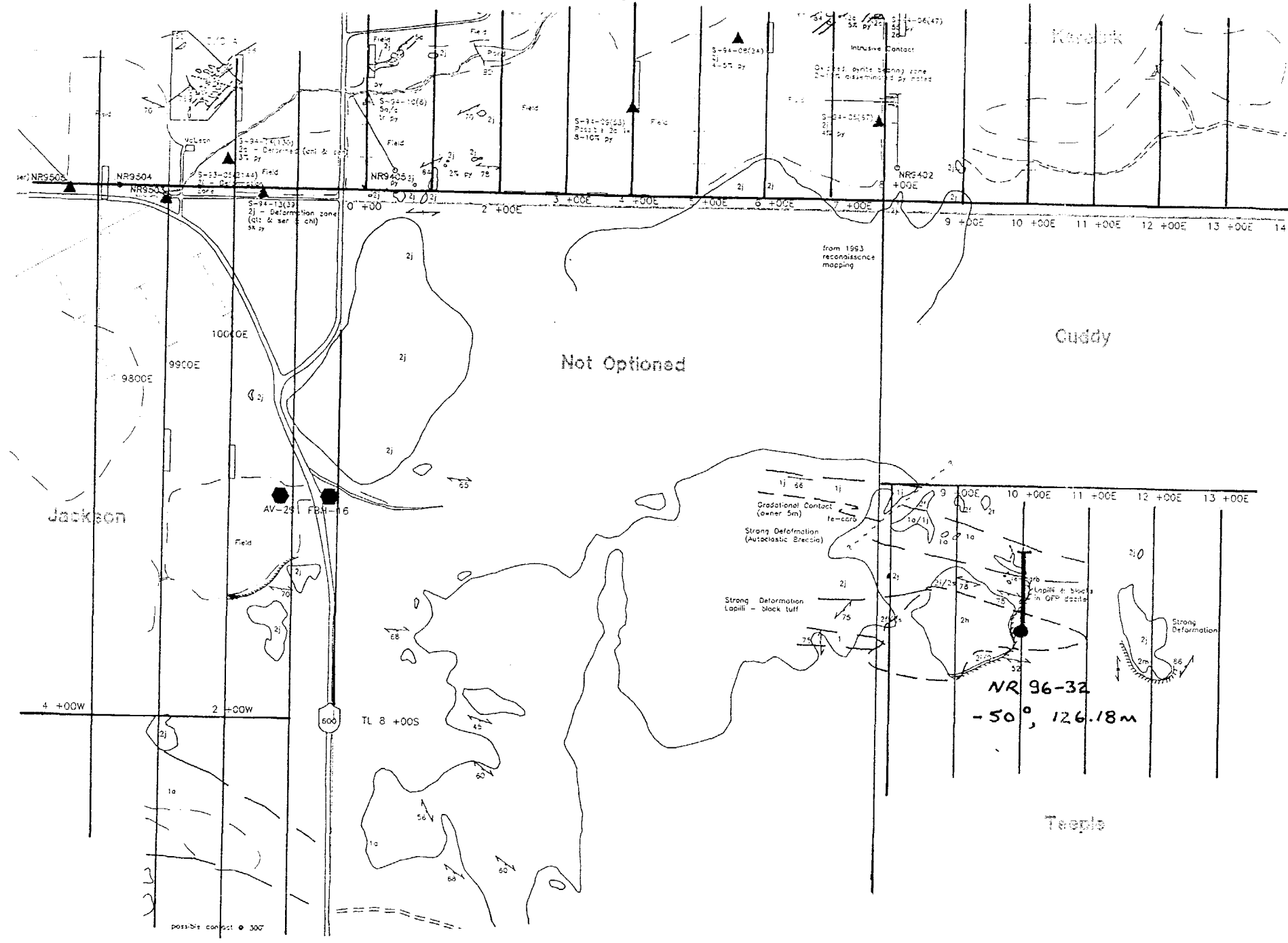
Lot 5

Lot 4

Lot 3



Concession 1



- SYMBOLS**
I.P. RESPONSES
- HIGHER POLARIZATION, RELATIVE DECREASE IN THE APPARENT RESISTIVITY
 - HIGHER POLARIZATION WITH LITTLE OR NO DECREASE IN APPARENT RESISTIVITY
 - WEAK OR POORLY DEFINED POLARIZATION WITH NO APPARENT SIGNATURE OF RESISTIVITY
 - E.M. RESPONSE (VERTICAL LOOP)
 - AREA OF DETAILED MAPPING
 - ONTARIO HIGHWAY (GRAVEL)
 - ALL WEATHER SECONDARY ROAD (GRAVEL)
 - LOGGING OR FARM TRACK
 - BOG OR BEAVER SWAMP
 - BEAVER DAM
 - STREAM WITH FLOW DIRECTION
 - STEEP INCLINE, SLOPE
 - FIELD OR PASTURE
 - BUILDING
 - OUTCROP AREA
 - DIAMOND DRILL HOLE NR-94-01 NUINSCO 1994
 - OVERBURDEN DRILL HOLE 88-11 OGS 1988 (ROTASONIC)
 - FL-RC-04 - MINGOLD 1989 (REVERSE CIRC)
 - S-93-04 - NUINSCO 1993 (ROTASONIC)
 - RR-94-07 - NUINSCO 1994 (REVERSE CIRC)
 - S-94-09 - NUINSCO 1994 (ROTASONIC)
 - BACKHOE OR TESTPIT SAMPLING FBH-15 - OGS 1988 (BACKHOE)
 - AV-32 - OGS 1988 (TESTPIT)
 - STRIKE & DIP VERTICAL INCLINED
 - UNKNOWN DIP
 - FOLIATION VERTICAL INCLINED
 - VERY STRONG FOLIATION (DEFORMATION ZONE) VERTICAL INCLINED
 - LITHOLOGIC CONTACTS OBSERVED
 - LITHOLOGIC CONTACTS INFERRED
 - PILLOW - ELONGATED DIRECTION & TOP
 - ASSAY OR WHOLEROCK SAMPLE LOCATION
 - SAMPLE VALUE (Au)
 - GLACIAL STRIAE

NUINSCO RESOURCES LTD.

RAINY RIVER PROJECT

RICHARDSON TWP. GRID

DRILL HOLES PLAN

NORTHEAST SHEET

SCALE

Lot 5

Lot 4

Lot 3

Report of Work Conducted After Recording Claim

Mining Act

Transaction Number
W9610.0011

ERLIS

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Toronto, Ontario, P3E 6A5, telephone (705) 670-7264.

- Instructions:
- Please type or print and submit in duplicate
 - Refer to the Mining Act Recorder.
 - A separate copy of this
 - Technical reports and
 - A sketch, showing the c



or consult the Mining

900

Recorded Holder(s) NUINSCO RESOURCES	Client No. 176866
Address 902 THE EAST MALL, ETOBICOKE	Telephone No. 416 626-0470
Mining Division KENORA	Township/Area RICHARDSON, TAIT, PATRICK NEUES, SIFTON, BLUE, CURRAN
Dates Work Performed From: JAN 21/96	To: MARCH 26/96

Work Performed (Check One Work Group Only)

Work Group	Type
Geotechnical Survey	
Physical Work, Including Drilling	REVERSE CIRCULATION DRILLING
Rehabilitation	
Other Authorized Work	
Assays	
Assignment from Reserve	

Total Assessment Work Claimed on the Attached Statement of Costs \$ **232,475**

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
VERBODEN DRILLING MANAGEMENT	NEPEAN, ONT
BRADLEY BROS.	NORANDA, QUEBEC
PAUL JONES	RR#2, ENG ONT (NUINSCO RES.)
GEORGE ARCHIBALD	RR#2, ENG ONT (NUINSCO RES.)

Attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date July 26/96	Recorded Holder or Agent (Signature) <i>Paul Jones</i>
--	---------------------------	---

Certification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying
PAUL JONES

Telephone No. 416-626-0470	Date July 26, 1996	Certified By (Signature) <i>Paul Jones</i>
--------------------------------------	------------------------------	---

For Office Use Only

Total Value Cr. Recorded 232,475	Date Recorded July 31/96	Mining Recorder <i>Scott Kinross</i>	Received Stamp JUL 31 1996 7 8 9 10 11 12 1 2 3 4 5 6
Deemed Approval Date Oct. 29, 1996	Date Approved Oct. 29, 1996		
Date Notice for Amendments Sent			

Work Report Number Applying Reserve	Claim Number (see Note 2)	Number of Claimed Units
	N $\frac{1}{2}$, 10. Cont. 2	64.34
	RICHARDSON (10746)	
	E $\frac{1}{2}$ N $\frac{1}{2}$ 11. Cont. 1	31.93
	RICHARDSON (13514)	
	S $\frac{1}{2}$, S $\frac{1}{2}$ 8. Cont. 2	30.99
	RICHARDSON (5483)	
	N $\frac{1}{2}$, S $\frac{1}{2}$ 8. Cont. 1	32.37
	RICHARDSON (17392)	
	N $\frac{1}{2}$ S $\frac{1}{2}$ 8, Cont. 2	32.07
	RICHARDSON (22496)	
	N $\frac{1}{2}$ 8, Cont. 1	63.64
	RICHARDSON (4259)	
	N $\frac{1}{2}$ S $\frac{1}{2}$, Sect 31	61.92
	TRAIT (17112)	
	N $\frac{1}{2}$ S $\frac{1}{2}$, Sect 31	59.89
	TRAIT (17117)	
	S $\frac{1}{2}$ S $\frac{1}{2}$, Sect 36	66.37
	PATRULLO (14975)	
	S $\frac{1}{2}$ S $\frac{1}{2}$, Sect 23	66.37
	BLUE (4097)	
	N $\frac{1}{2}$ N $\frac{1}{2}$, Sect 18	5.67
	BLUE (488)	
	S $\frac{1}{2}$ S $\frac{1}{2}$, Sect 27	65.56
	BLUE (4942)	
	S $\frac{1}{2}$ S $\frac{1}{2}$, Sect 26	63.94
	BLUE (5132)	
	S $\frac{1}{2}$ S $\frac{1}{2}$, Sect 35	65.56
	BLUE (12610)	
	1178110	16
	1178095	14
	1178094	12
	Total Number	

Value of Assessment Work Done on this Claim	Value Applied to this Claim
7042	0.00
10351	0.00
13,565	0.00
5,579	0.00
4,307	0.00
2,830	0.00
11,965	0.00
12,717	0.00
7,015	0.00
1,189	0.00
1,791	0.00
2,311	0.00
3,897	0.00
7,193	0.00
	1,307
	3,972
	929
91,752	6,208
Total Value Work	Total Value

Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
0.00	7,042
0.00	10,351
0.00	13,565
0.00	5,579
0.00	4,307
0.00	2,830
0.00	11,965
0.00	12,717
0.00	7,015
0.00	1,189
0.00	1,791
2,311	0.00
3,897	0.00
0.00	7,193
6,208	85,544
Total Assigned	Total Reserve

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

- Credits are to be cut back starting with the claim listed last, working backwards.
- Credits are to be cut back equally over all claims contained in this report of work.
- Credits are to be cut back as prioritized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.

Signature: Paul Long Date: July 2, 1980

NEW FILE SUBMISSIONS

File Number

OMIP

OPAP

Claim Holder **NUINSO RESOURCES LIMITED**

Township **RICHARDSON / TAIT / PATULLO / NELLES /
SIFTON / BLUE / CURRAN**

Mining Division **KENORA**

Report of Work # **W9610.00111**

Survey **POVERB**

Shelved **03-3**

INFO Client Number **176866**

Notes

NOTES

rights reservation along the shores
and rivers.

ship lies within the
of the Township of Morley

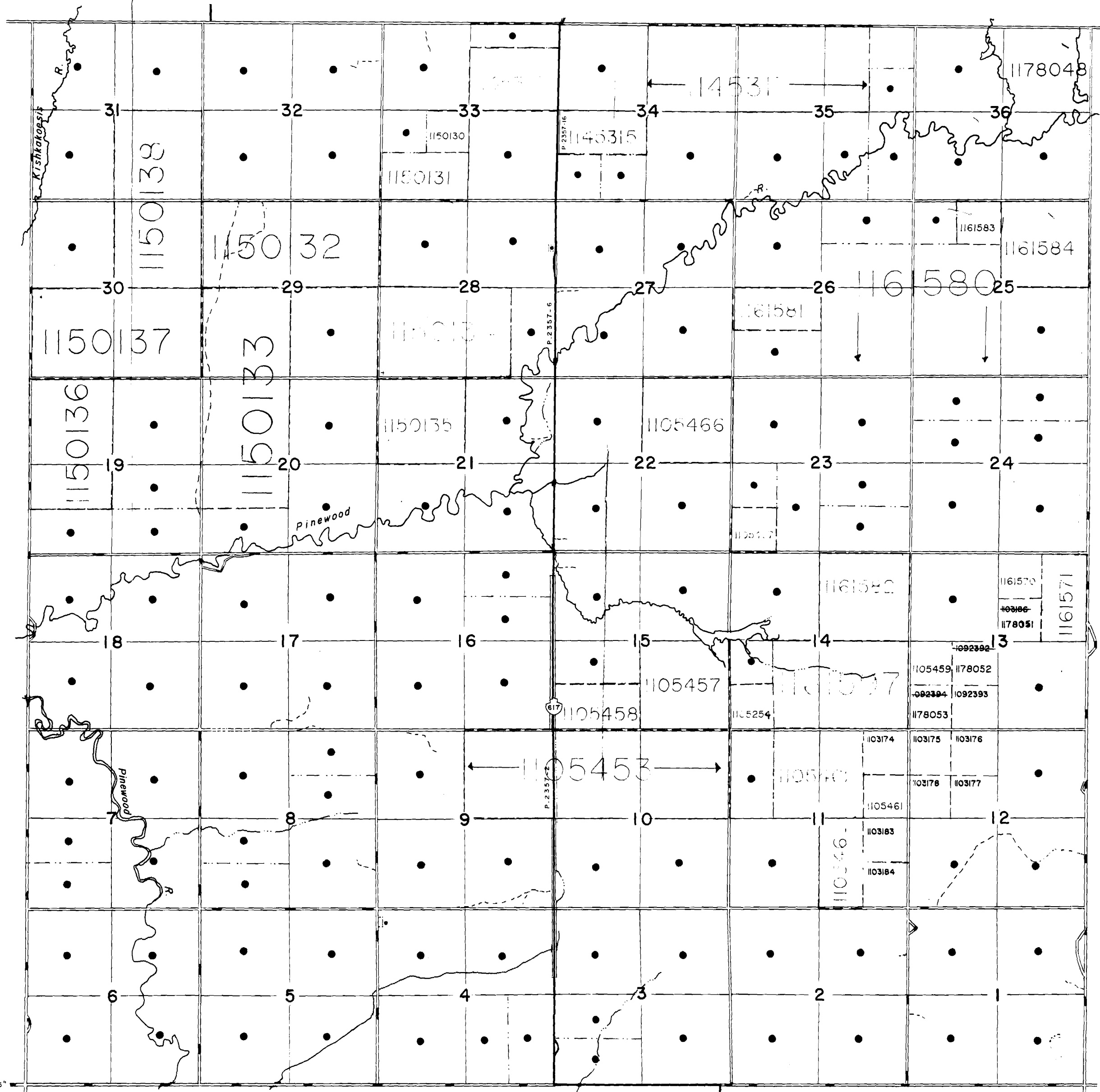
SUTHERLAND Tp. M.2123

SIFTON Tp. M.2276

NELLES Tp. M.2103

TAIT Tp. M.2124

MORLEY Tp. M.2100

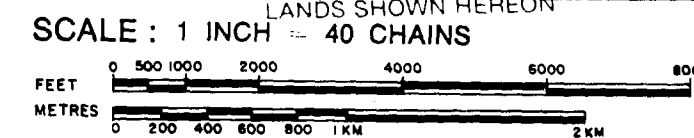


LEGEND

- 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

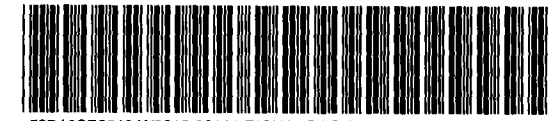
TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LEASE, SURFACE & MINING RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
CROWN LAND SALE	
ORDER-IN-COUNCIL HAS BEEN COMPILED	
RESERVATION FROM VARIOUS SOURCES	
AND ACCURACY 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	



ACRES	HECTARES
40	16

DATE OF ISSUE
JAN 16 1997
KENORA MINING DIVISION

TOWNSHIP
PATTULLO
DISTRICT
RAINY RIVER
MINING DIVISION
KENORA



52D16SE0012 W9610.00111 RICHARDSON 200

Date 7 7 5 Plan No. M.2106
Whitney Block Queen's Park, Toronto

NOTES

Reservation along the shores
of the Kishkakoosis River.

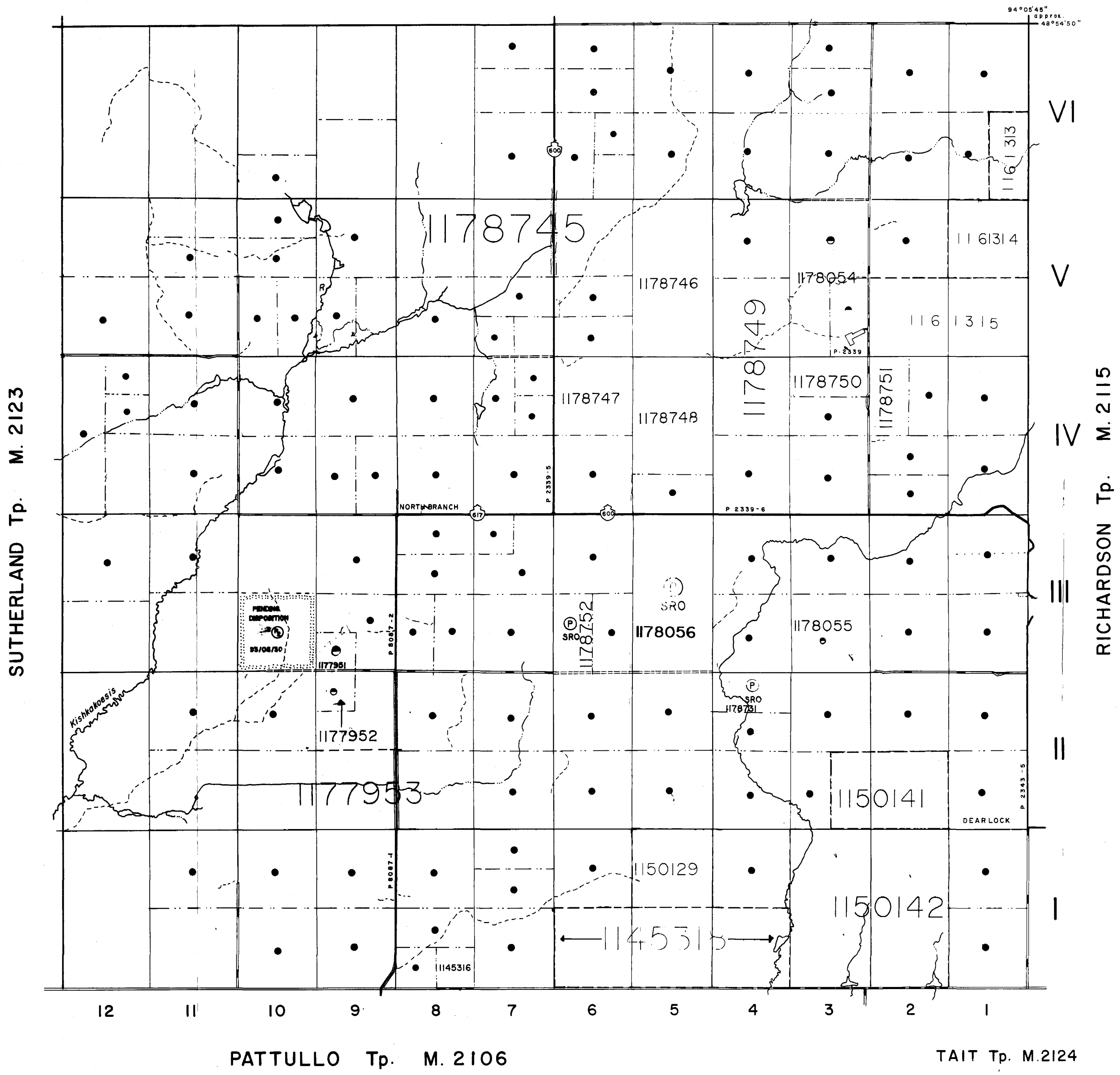
RESERVES

Forestation purposes. 8 Mar '55

1/4 Sec 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

as shown
1/185

DEWART Tp. M. 2077



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	
ORDER-IN-COUNCIL	
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

ACRES: 40
HECTARES: 16

DATE OF ISSUE: JAN 16 1997

TOWNSHIP: KENORA
MINING DIVISION

SIFTON

DISTRICT: RAINY RIVER
MINING DIVISION: KENORA



Date: 7-75
Plan No.: M.2276

NOTES

face rights reservation along the shores
of lakes and rivers.

WITHDRAWN FROM DISPOSITION

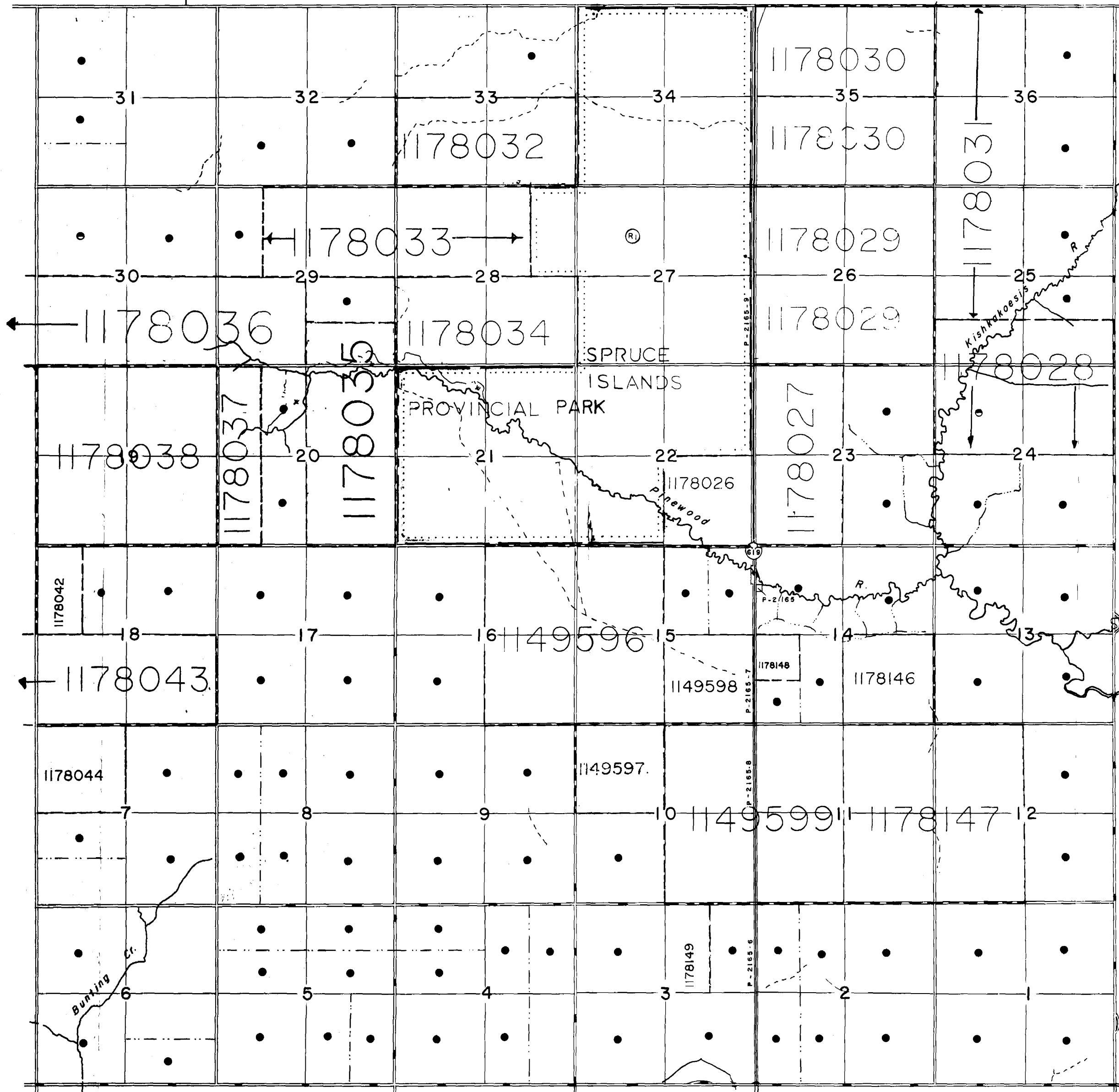
R.O. - MINING RIGHTS ONLY
R.O. - SURFACE RIGHTS ONLY
R.S. - MINING RIGHTS ONLY
Order No. File
P-2165-7 188515

PRATT Tp. M.2110

SUTHERLAND Tp. M.2123

BLUE Tp. M.2067

PATTULLO Tp. M.2106



DILKE Tp. M.2078

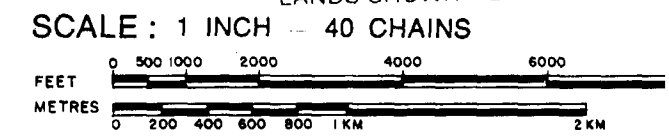
LEGEND

- 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	
ORDER-IN-COUNCIL	
RESERVATION	
CANCELLED	
SAND & GRAVEL	

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ACRES HECTARES

40 16

DATE OF ISSUE

JAN 16 1997
TOWNSHIP
KENORA
MINING DIVISION

NELLES

DISTRICT
RAINY RIVER
MINING DIVISION
KENORA



52D165E0012 V9610 00111 RICHARDSON

220 h

Date 4 75 Plan No.

Whitney Block
Queen's Park, Toronto

M.210

8 10 11 12 13 14 15 16

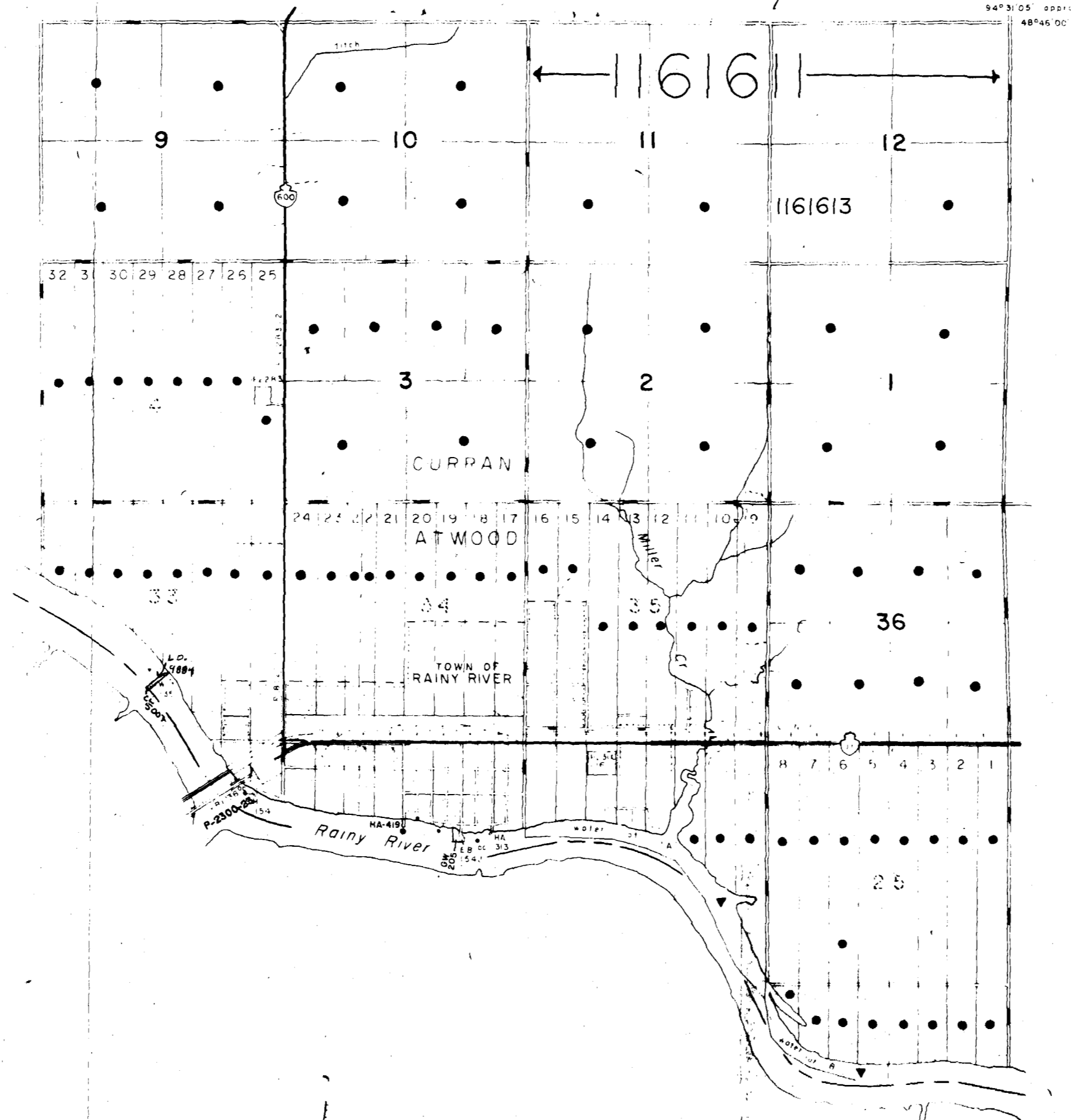
Effective as shown
Feb 27/85

ong the shores

Sections 25,
Rainy River Range.

WILD LAND RESERVE

WILD LAND RESERVE



BLUE Tp. M.2067

WORTHINGTON Tp. M.2132

UNITED STATES OF AMERICA

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	
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.	CS OC ⊕ ⊙

SCALE : 1 INCH = 40 CHAINS

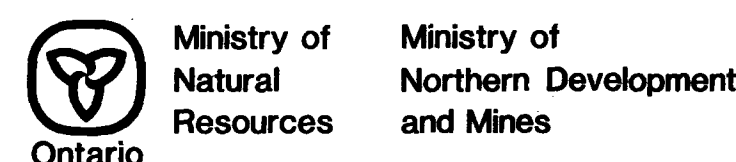
DATE OF ISSUE	JAN 16 1997
ACRES	40
HECTARES	16
KENORA MINING DIVISION	

TOWNSHIPS
ATWOOD and CURRAN
 DISTRICT
 RAINY RIVER
 MINING DIVISION
 KENORA



230

Date: 1 7 6
 Whitney Block
 Queen's Park, Toronto
 Plan No. **M.1601**



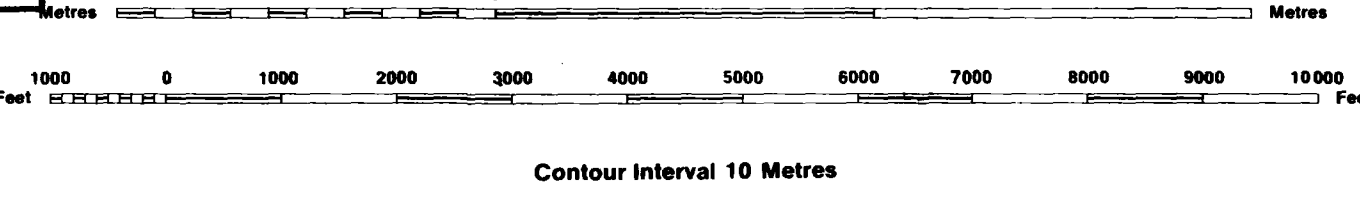
INDEX TO LAND DISPOSITION

PLAN G-3796 TOWNSHIPS BLUE and WORTHINGTON M.N.R. ADMINISTRATIVE DISTRICT FORT FRANCES MINING DIVISION KENORA LAND TITLES/REGISTRY DIVISION RAINY RIVER

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.

DATE OF ISSUE JAN 16 1987 KENORA MINING DIVISION

Scale 1:20 000



SYMBOLS

- Boundary Township, Meridian, Baseline... Road allowance, surveyed shoreline... Lot/Concession, surveyed/unsurveyed... Parcel, surveyed/unsurveyed... Right-of-way, road/utility... Reservation... Cliff, Pit, Pile... Contour... Interpolated... 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 Cancelled Reservation Sand & Gravel

AREAS WITHDRAWN FROM DISPOSITION

- MRO - Mining Rights Only SRO - Surface Rights Only M+S - Mining and Surface Rights Description Order No. Date Disposition File

Map base and land disposition drafting by Surveys and Mapping Branch, Ministry of Natural Resources. THIS MYLAR PUT INTO SERVICE EFFECTIVE MARCH 30, 1995.

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



UNITED STATES OF AMERICA

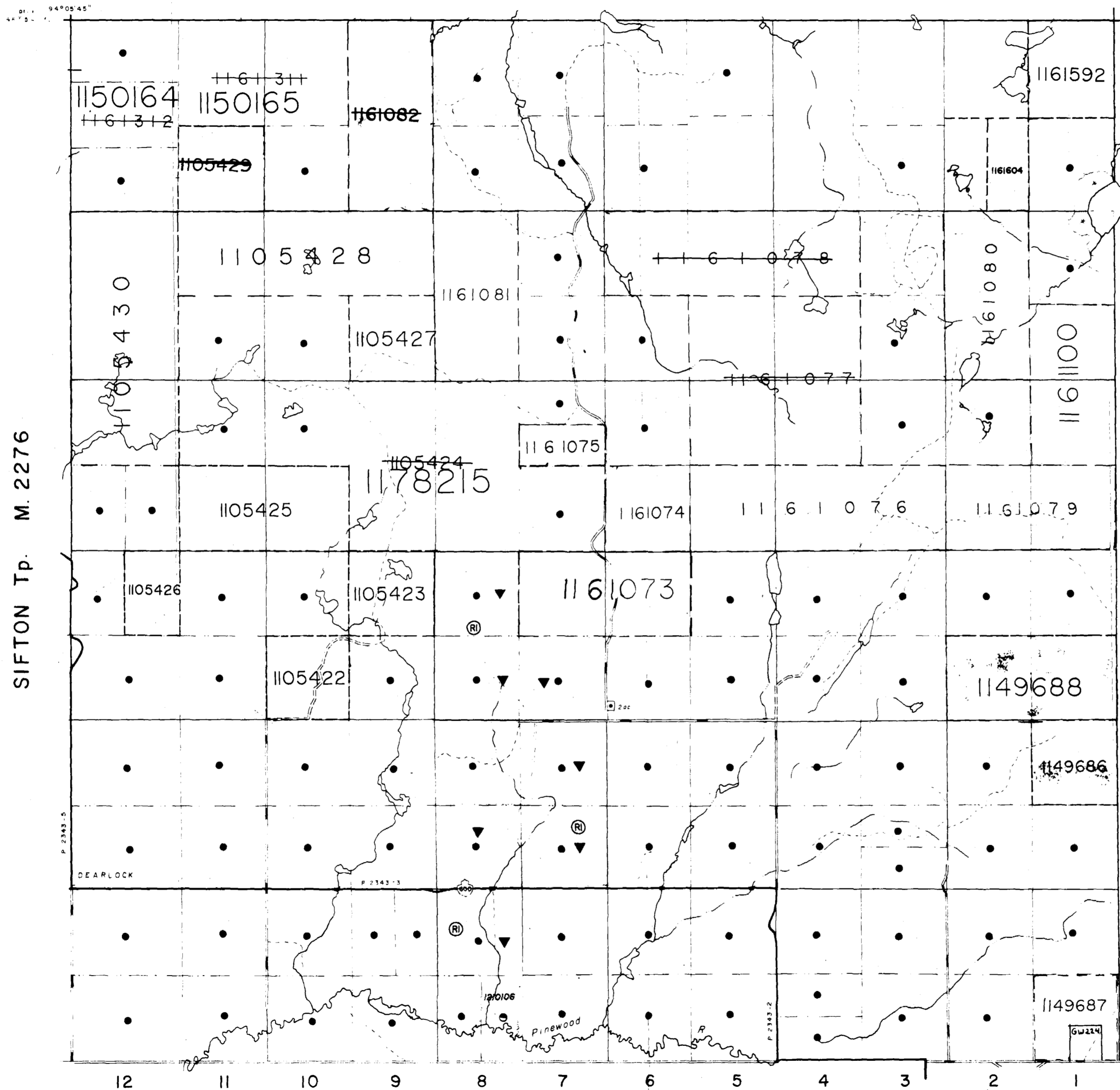
NOTES

rights reservation along the shores and rivers.

township lies within the jurisdiction of the Township of Chapple.

SR&MR JUNE 4/93
 NWR MRO JAN. 26/96 195150-TO FILE #
 NWR MRO MAY 9/96 195150.

ROWE Tp. M.2118

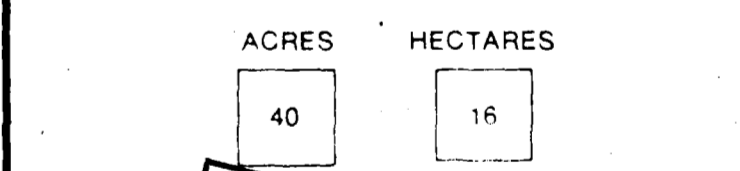
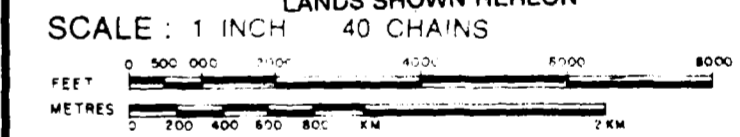


LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
- TOWNSHIP'S 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 | |
| ORDER-IN-COUNCIL | |
| 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.

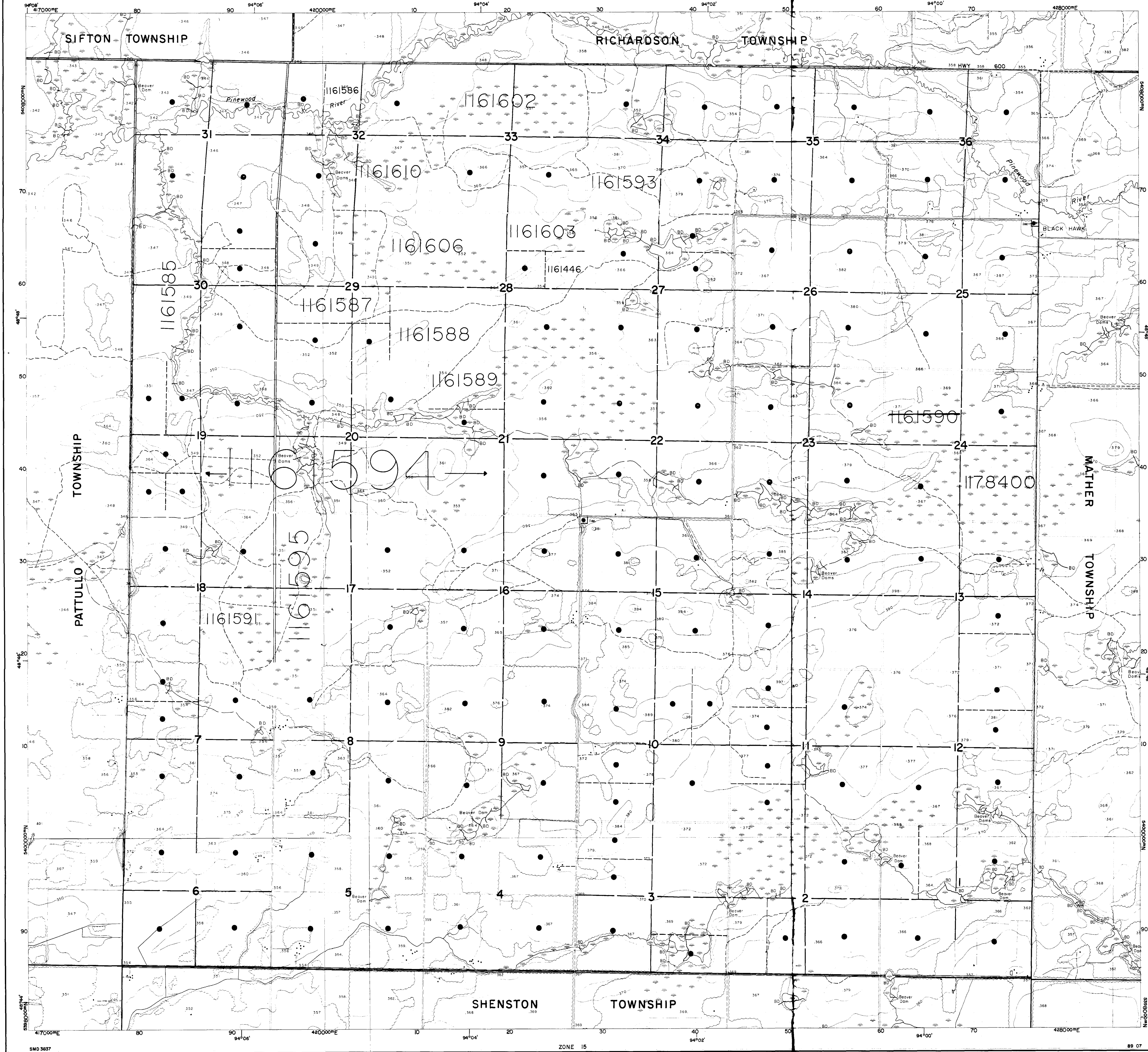


DATE OF ISSUE
 TOWNSHIP JAN 16 1997
RICHARDSON

DISTRICT
 RAINY RIVER
 MINING DIVISION
 KENORA

Ministry of Natural Resources
 Ontario Surveys and Mapping Branch
 Date: 6 7 5 Plan No. M.2115
 Whitney Block, Queen's Park, Toronto



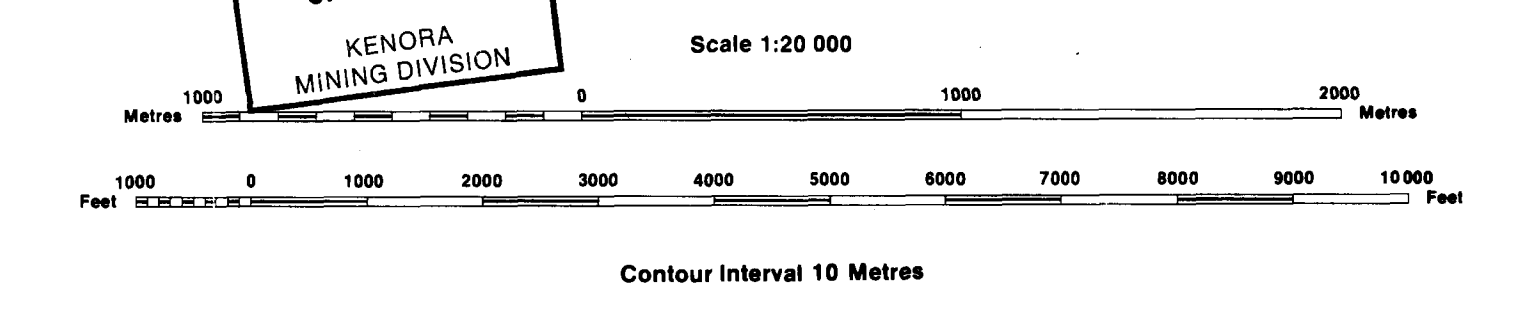


INDEX TO LAND DISPOSITION

PLAN
G-3837
 TOWNSHIP
TAIT

M.N.R. ADMINISTRATIVE DISTRICT
FORT FRANCES
 MINING DIVISION
KENORA
 LAND TITLES/REGISTRY DIVISION
RAINY RIVER

DATE OF ISSUE
JAN 16 1997
 KENORA
 MINING DIVISION



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AREAS WITHDRAWN FROM DISPOSITION

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

SYMBOLS

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

NOTES

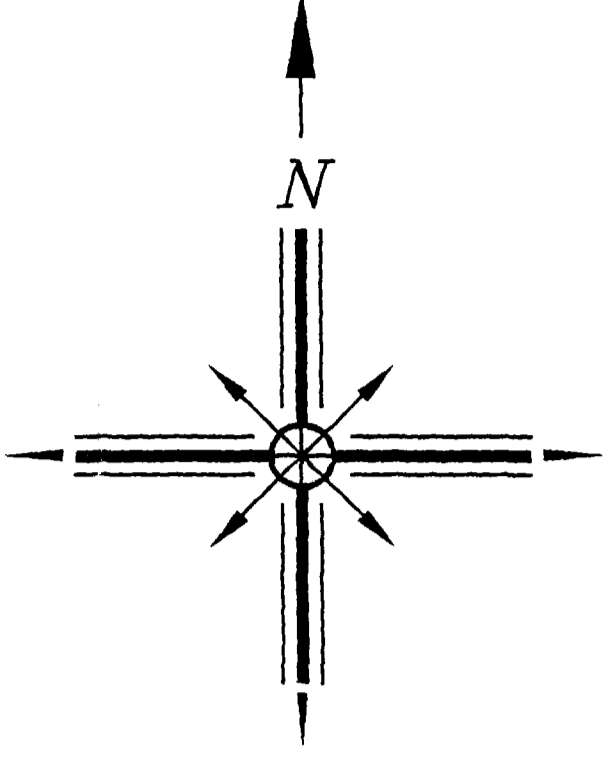
400' SURFACE RIGHTS RESERVATION ALONG THE SHORES OF ALL LAKES AND RIVERS.
 THIS TOWNSHIP LIES WITHIN THE CORPORATION OF THE TOWNSHIP OF CHAPPELLE.

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	⊙

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.

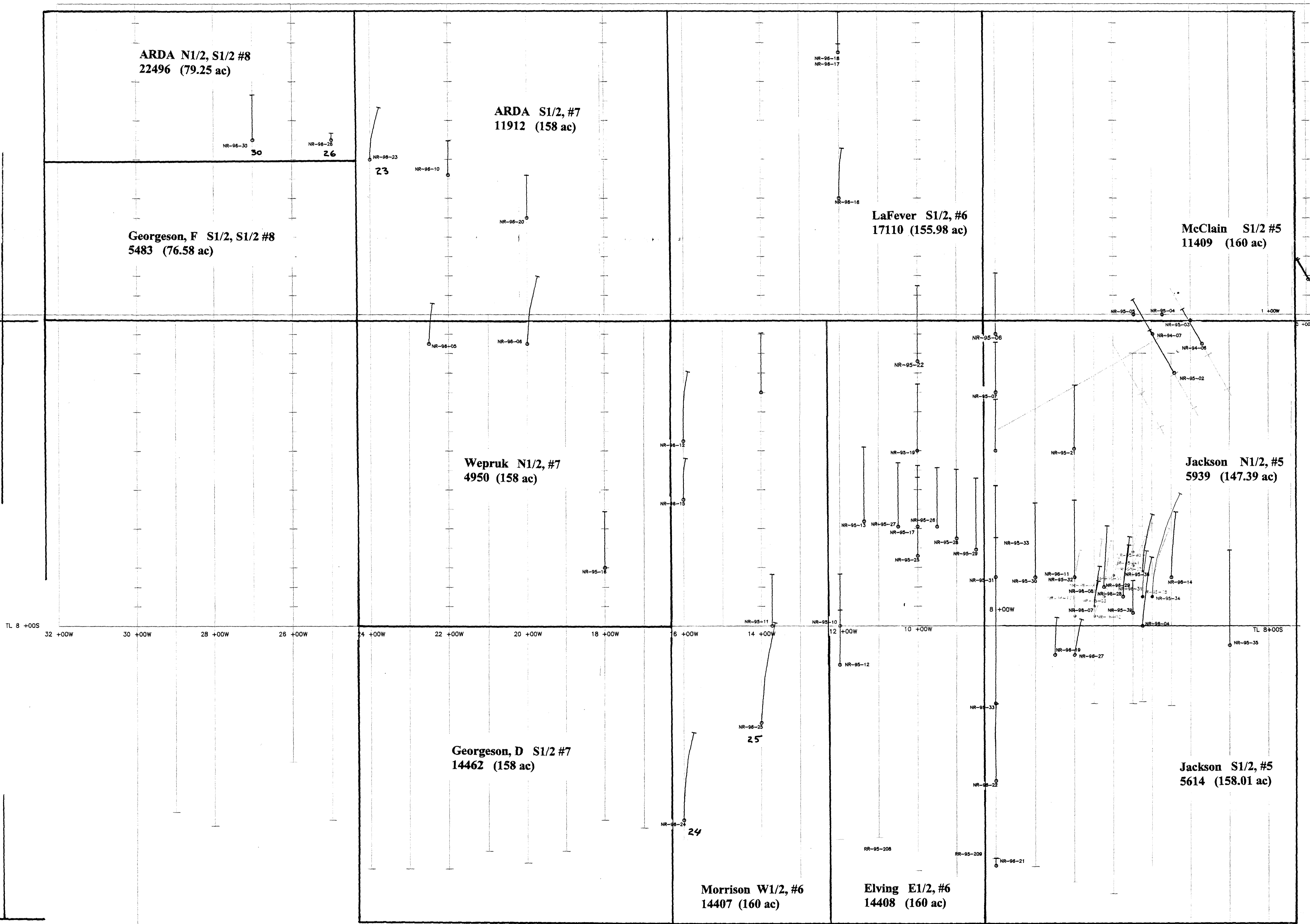
3837
 TAIT TWP.
 G-3837



Concession 2 (S1/2)

Concession 1 (N1/2)

Concession 1 (S1/2)



ARDA N1/2, S1/2 #8
22496 (79.25 ac)

ARDA S1/2, #7
11912 (158 ac)

Georgeson, F S1/2, S1/2 #8
5483 (76.58 ac)

LaFever S1/2, #6
17110 (155.98 ac)

McClain S1/2 #5
11409 (160 ac)

Wepruk N1/2, #7
4950 (158 ac)

Jackson N1/2, #5
5939 (147.39 ac)

Georgeson, D S1/2 #7
14462 (158 ac)

Jackson S1/2, #5
5614 (158.01 ac)

Morrison W1/2, #6
14407 (160 ac)

Elving E1/2, #6
14408 (160 ac)

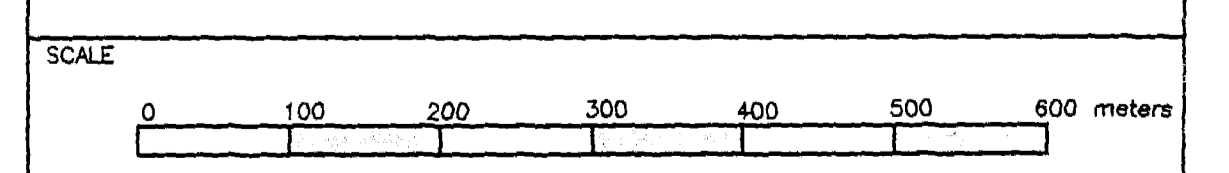
Lot 8

Lot 7

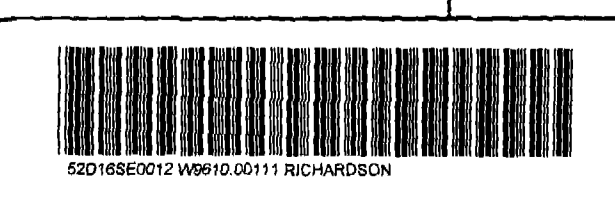
Lot 6

Lot 5

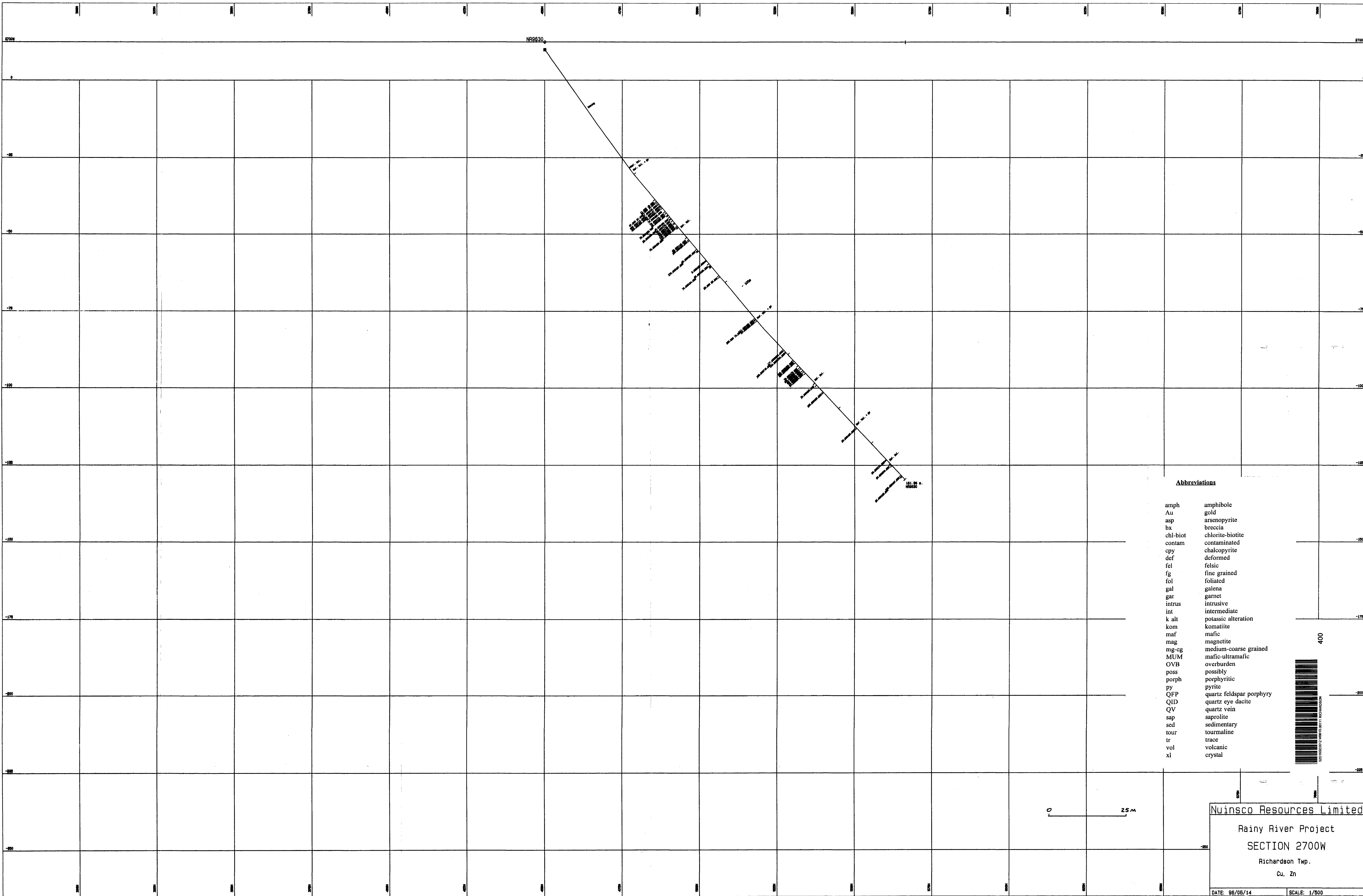
**RAINY RIVER PROJECT
RICHARDSON TWP. GRID
DRILL HOLE PLAN**



MAPPED BY: P.L.J., G.F.A. DATE: 05/10/96
AutoCAD FILE NAME: NU-R1-D1.DWG



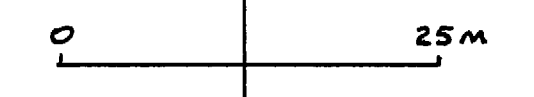
NR9630



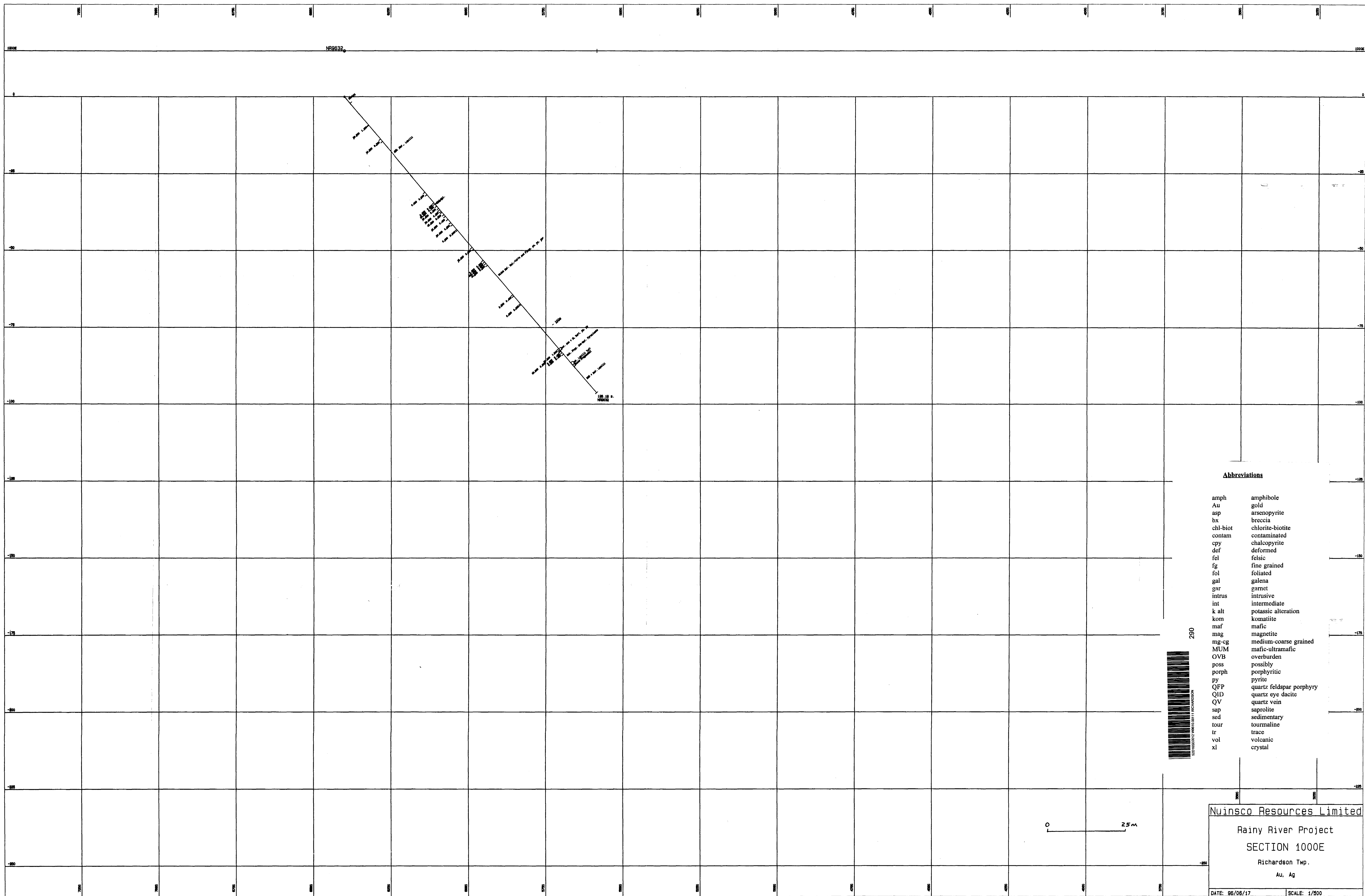
Abbreviations

amph	amphibole
Au	gold
asp	arsenopyrite
bx	breccia
chl-biot	chlorite-biotite
contam	contaminated
cpy	chalcopyrite
def	deformed
fel	felsic
fg	fine grained
fol	foliated
gal	galena
gar	garnet
intrus	intrusive
int	intermediate
k alt	potassic alteration
kom	komatiite
maf	mafic
mag	magnetite
mg-og	medium-coarse grained
MUM	mafic-ultramafic
OVB	overburden
poss	possibly
porph	porphyritic
py	pyrite
QFP	quartz feldspar porphyry
QID	quartz eye dacite
QV	quartz vein
sap	saprolite
sed	sedimentary
tour	tourmaline
tr	trace
vol	volcanic
xl	crystal

400



Nuinsco Resources Limited
 Rainy River Project
 SECTION 2700W
 Richardson Twp.
 Cu, Zn
 DATE: 98/05/14 SCALE: 1/500



Abbreviations

amph	amphibole
Au	gold
asp	arsenopyrite
bx	breccia
chl-biot	chlorite-biotite
contam	contaminated
cpy	chalcopyrite
def	deformed
fel	felsic
fg	fine grained
fol	foliated
gal	galena
gar	garnet
intrus	intrusive
int	intermediate
k alt	potassic alteration
kom	komatiite
maf	mafic
mag	magnetic
mg-cg	medium-coarse grained
MUM	mafic-ultramafic
OVB	overburden
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porph	porphyritic
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QID	quartz eye dacite
QV	quartz vein
sap	saprolite
sed	sedimentary
tour	tourmaline
tr	trace
vol	volcanic
xl	crystal

280



Nuinsco Resources Limited

Rainy River Project

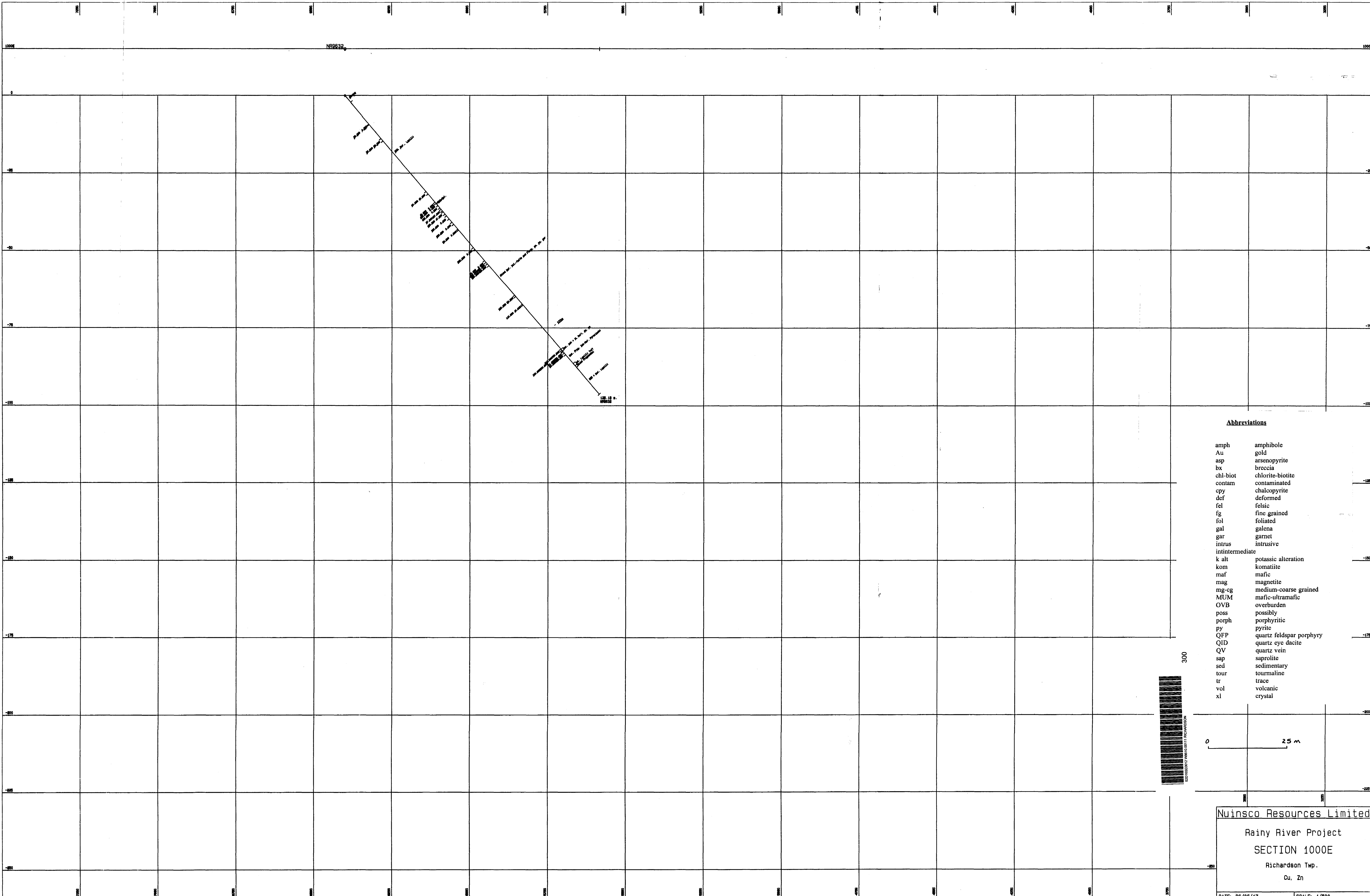
SECTION 1000E

Richardson Twp.

Au, Ag

DATE: 96/06/17

SCALE: 1/500



Abbreviations

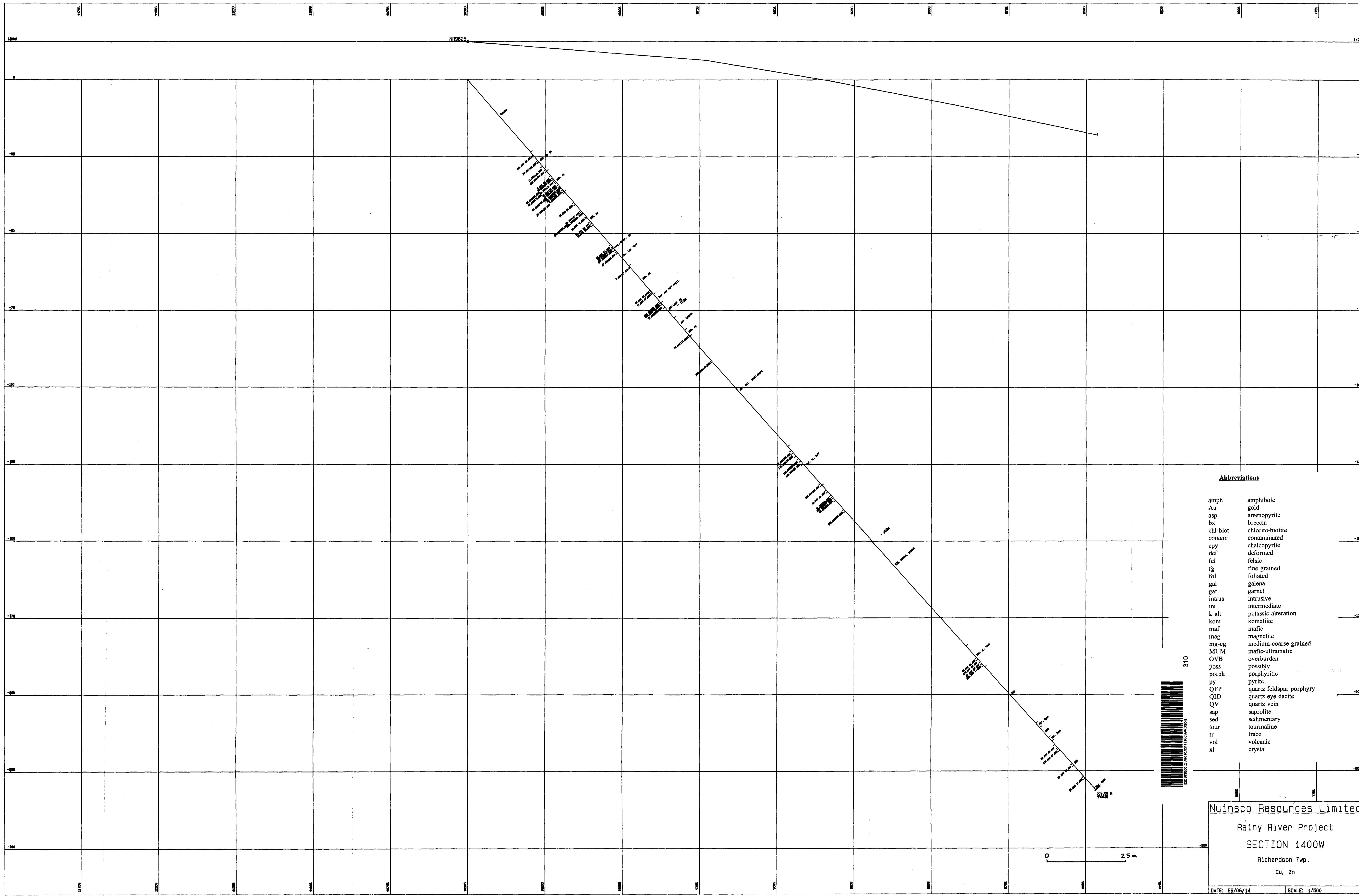
amph	amphibole
Au	gold
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chl-biot	chlorite-biotite
contam	contaminated
cpy	chalcopyrite
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fg	fine grained
fol	foliated
gal	galena
gar	garnet
intrus	intrusive
intintermediate	
k alt	potassic alteration
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QID	quartz eye dacite
QV	quartz vein
sap	saprolite
sed	sedimentary
tour	tourmaline
tr	trace
vol	volcanic
xl	crystal

300



0 25 m

Nuinsco Resources Limited
 Rainy River Project
 SECTION 1000E
 Richardson Twp.
 Cu, Zn

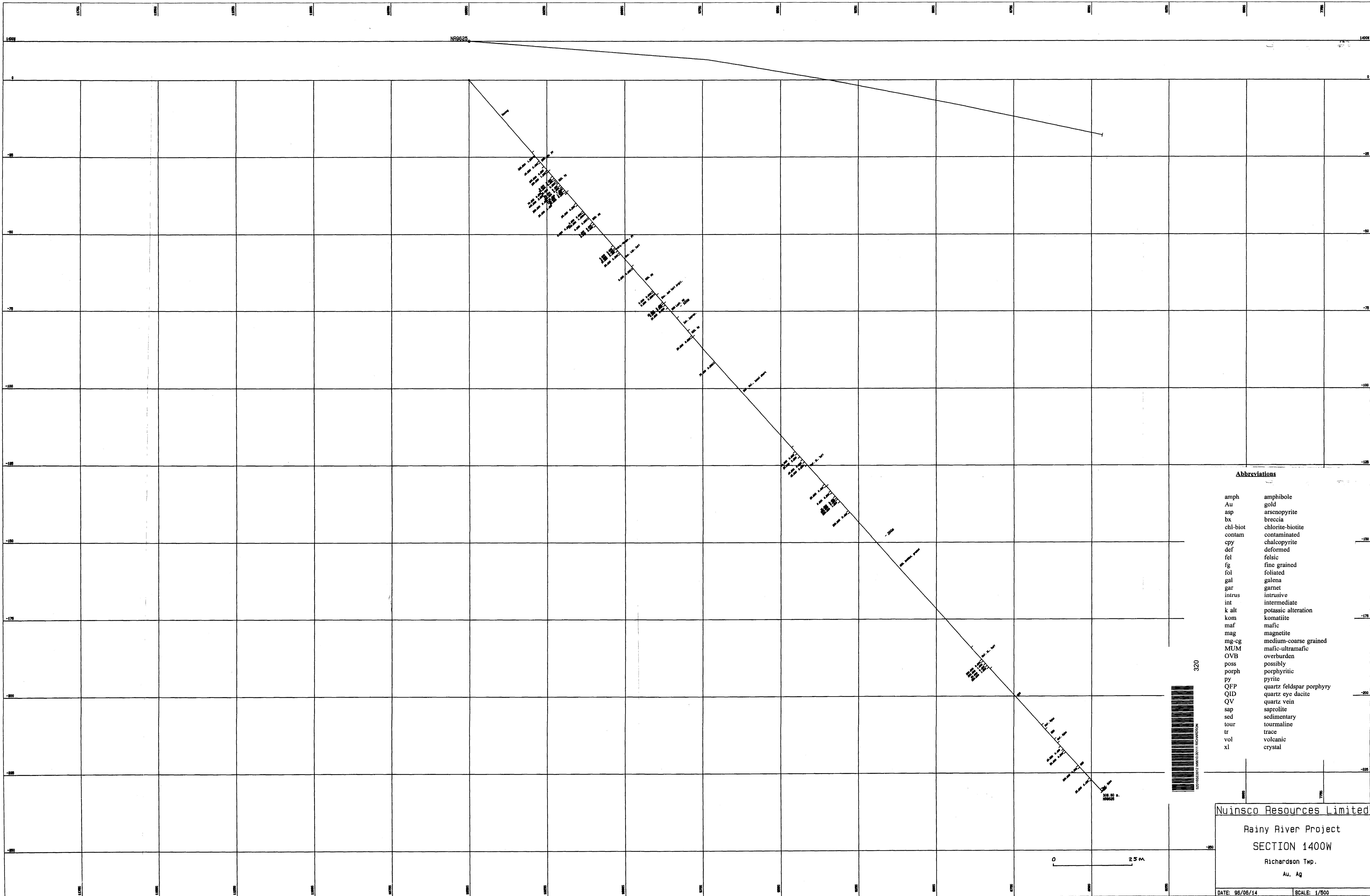


Abbreviations

amph	amphibole
Au	gold
asp	arsenopyrite
bx	breccia
chl-biot	chlorite-biotite
contam	contaminated
cpy	chalcopyrite
def	deformed
fel	felsic
fg	fine grained
fol	foliated
gal	galena
gar	garnet
intrus	intrusive
int	intermediate
k alt	potassic alteration
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maf	mafic
mag	magnetite
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QFP	quartz feldspar porphyry
QID	quartz eye dacite
QV	quartz vein
sap	saprolite
sed	sedimentary
tour	tourmaline
tr	trace
vol	volcanic
xl	crystal



Nuinsco Resources Limited
 Rainy River Project
 SECTION 1400W
 Richardson Twp.
 Cu, Zn
 DATE: 06/06/14 SCALE: 1/900



Abbreviations

amph	amphibole
Au	gold
asp	arsenopyrite
bx	breccia
chl-biot	chlorite-biotite
contam	contaminated
cpy	chalcopyrite
def	deformed
fel	felsic
fg	fine grained
fol	foliated
gal	galena
gar	garnet
intrus	intrusive
int	intermediate
k alt	potassic alteration
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maf	mafic
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MUM	mafic-ultramafic
OVB	overburden
poss	possibly
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QFP	quartz feldspar porphyry
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QV	quartz vein
sap	saprolite
sed	sedimentary
tour	tourmaline
tr	trace
vol	volcanic
xl	crystal

320

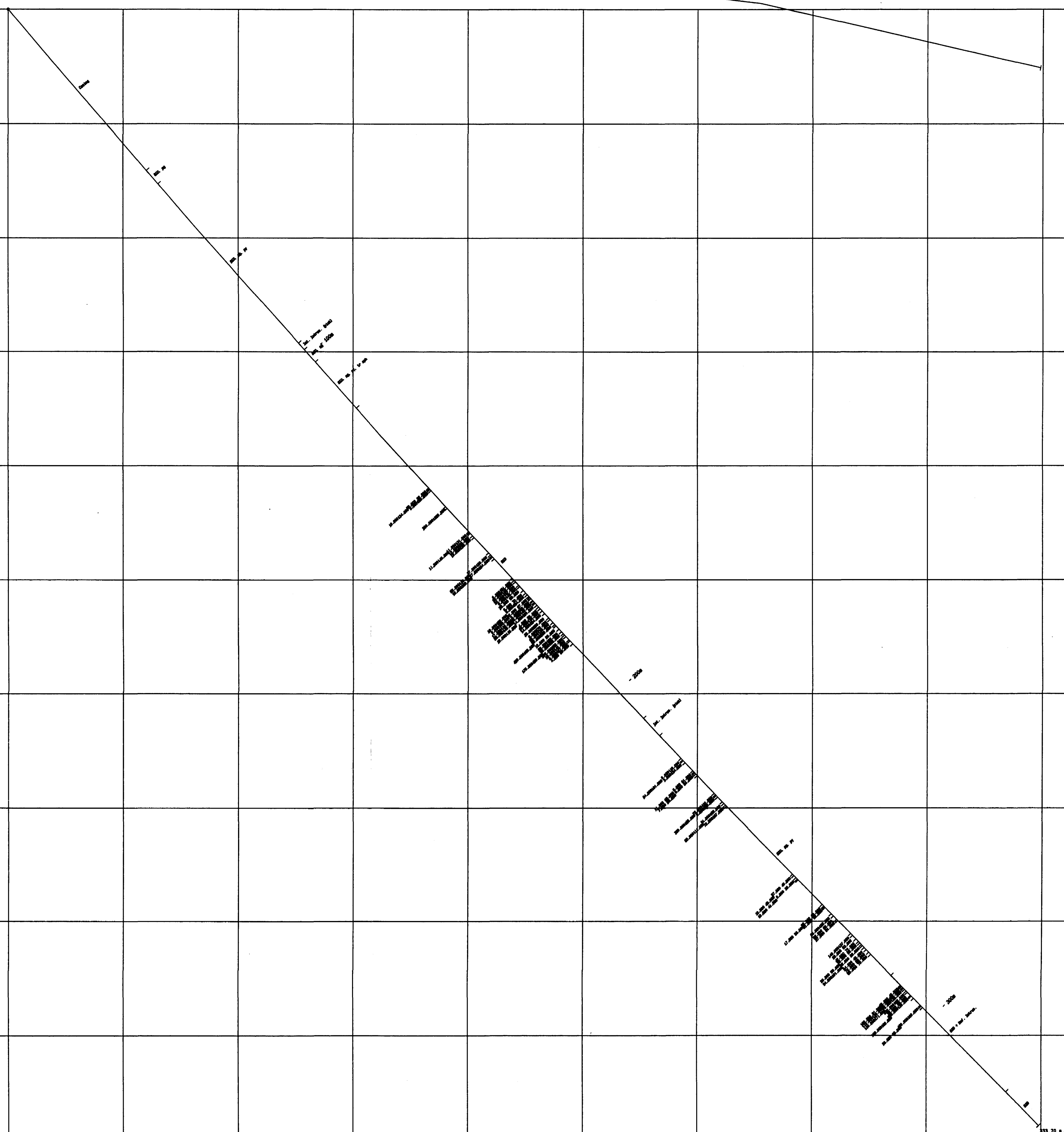


Nuinsco Resources Limited
 Rainy River Project
 SECTION 1400W
 Richardson Twp.
 Au, Ag
 DATE: 96/06/14 SCALE: 1/500

NF9524

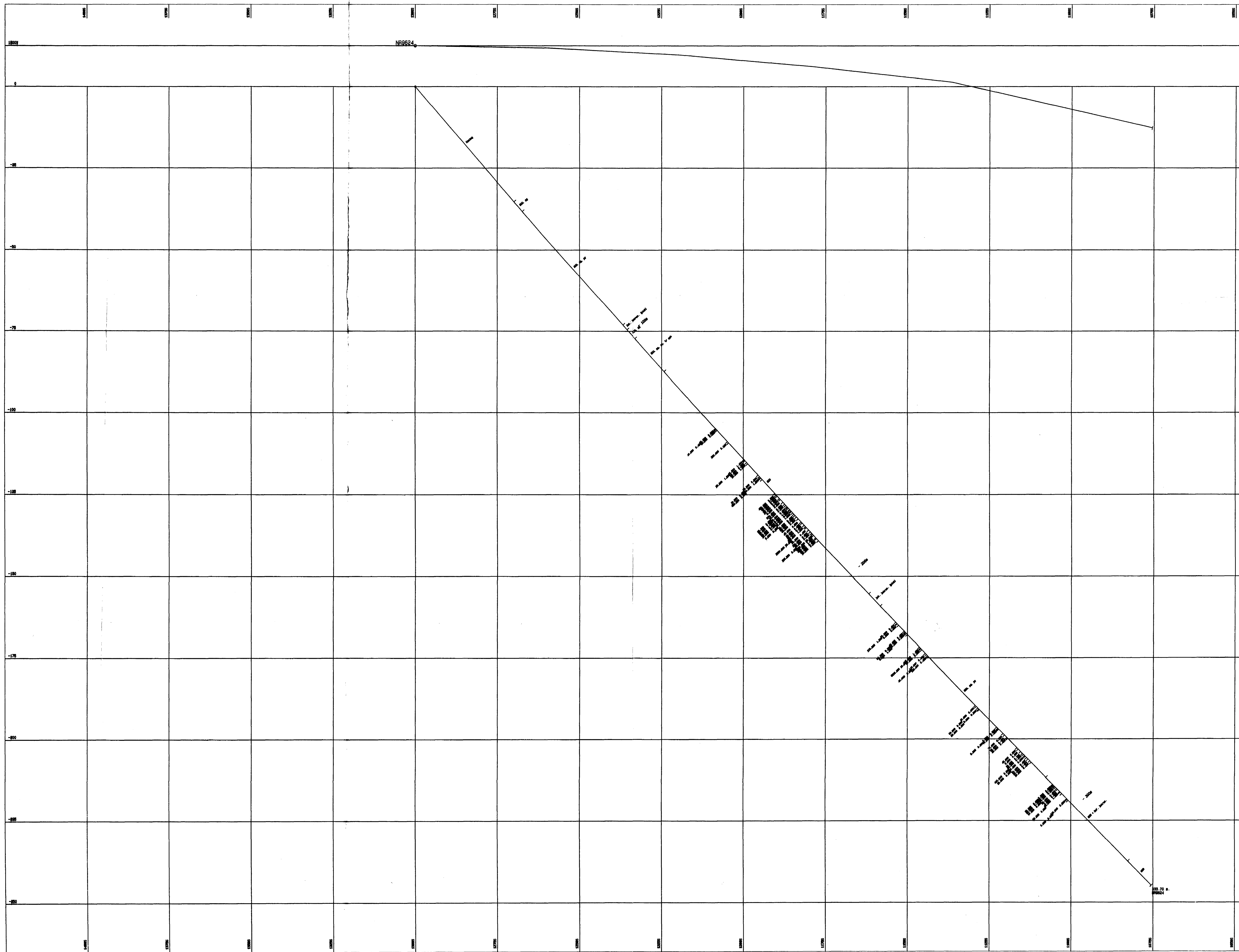
Abbreviations

amph	amphibole
Au	gold
asp	arsenopyrite
bx	breccia
chl-biot	chlorite-biotite
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QFP	quartz feldspar porphyry
QID	quartz eye dacite
QV	quartz vein
sap	saprolite
sed	sedimentary
tour	tourmaline
tr	trace
vol	volcanic
xl	crystal



0 25 m

Nuinsco Resources Limited
 Rainy River Project
 SECTION 1600W
 Richardson Twp.
 Cu, Zn
 DATE: 96/06/14 SCALE: 1/500



Abbreviations

amph	amphibole
Au	gold
asp	arsenopyrite
bx	breccia
chl-biot	chlorite-biotite
contam	contaminated
cpy	chalcopyrite
def	deformed
fel	felsic
fg	fine grained
fol	foliated
gal	galena
gar	garnet
intrus	intrusive
int	intermediate
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kom	komatiite
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mag	magnetite
mg-cg	medium-coarse grained
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QV	quartz vein
sap	saprolite
sed	sedimentary
tour	tourmaline
tr	trace
vol	volcanic
xl	crystal



Nuinsco Resources Limited

Rainy River Project

SECTION 1600W

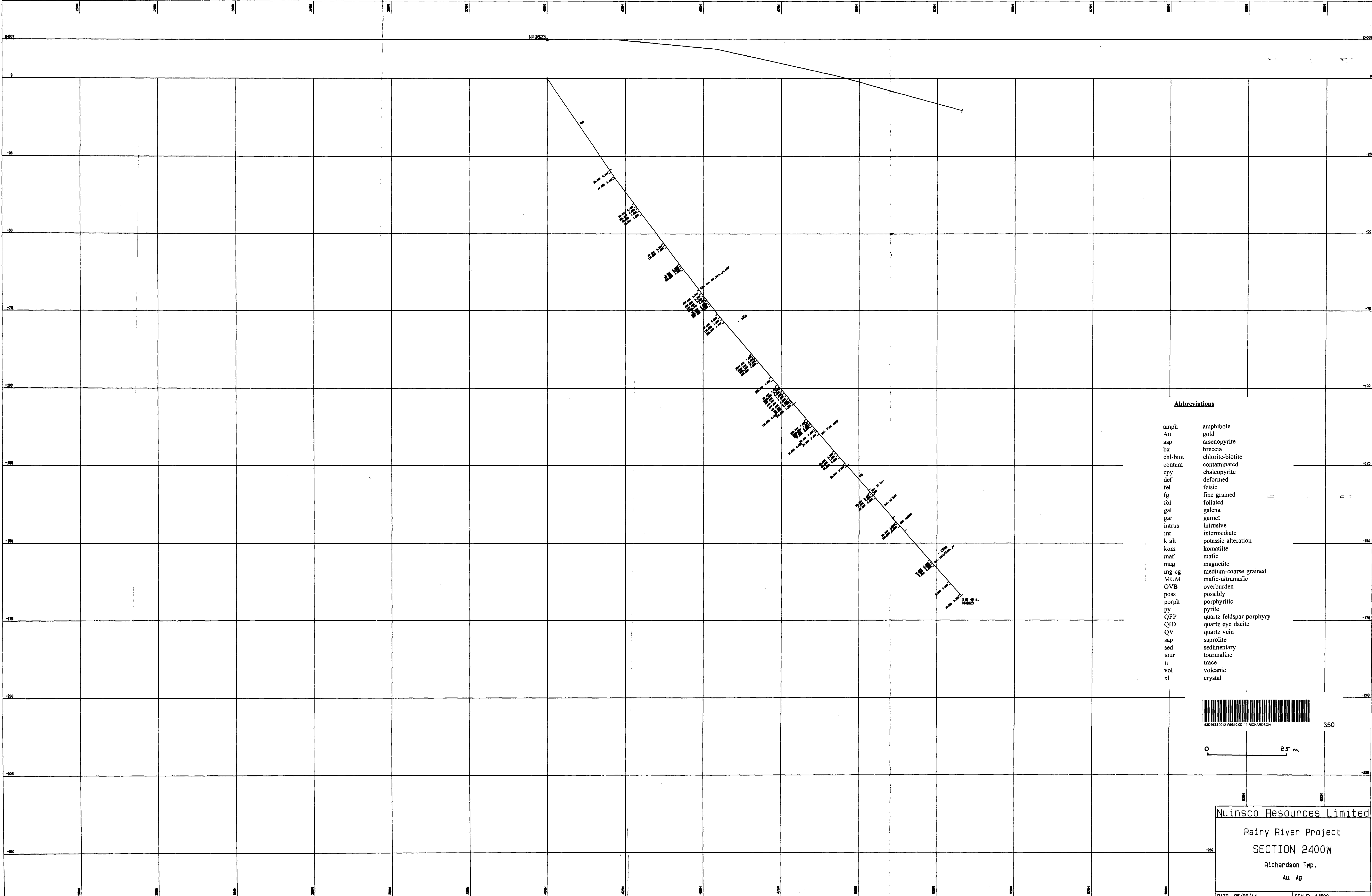
Richardson Twp.

Au, Ag

DATE: 96/05/14

SCALE: 1/500

NR9823

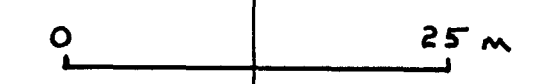


Abbreviations

amph	amphibole
Au	gold
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contam	contaminated
cpy	chalcopyrite
def	deformed
fel	felsic
fg	fine grained
fol	foliated
gal	galena
gar	garnet
intrus	intrusive
int	intermediate
k alt	potassic alteration
kom	komatiite
maf	mafic
mag	magnetite
mg-cg	medium-coarse grained
MUM	mafic-ultramafic
OVB	overburden
poss	possibly
porph	porphyritic
py	pyrite
QFP	quartz feldspar porphyry
QID	quartz eye dacite
QV	quartz vein
sap	saprolite
sed	sedimentary
tour	tourmaline
tr	trace
vol	volcanic
xl	crystal

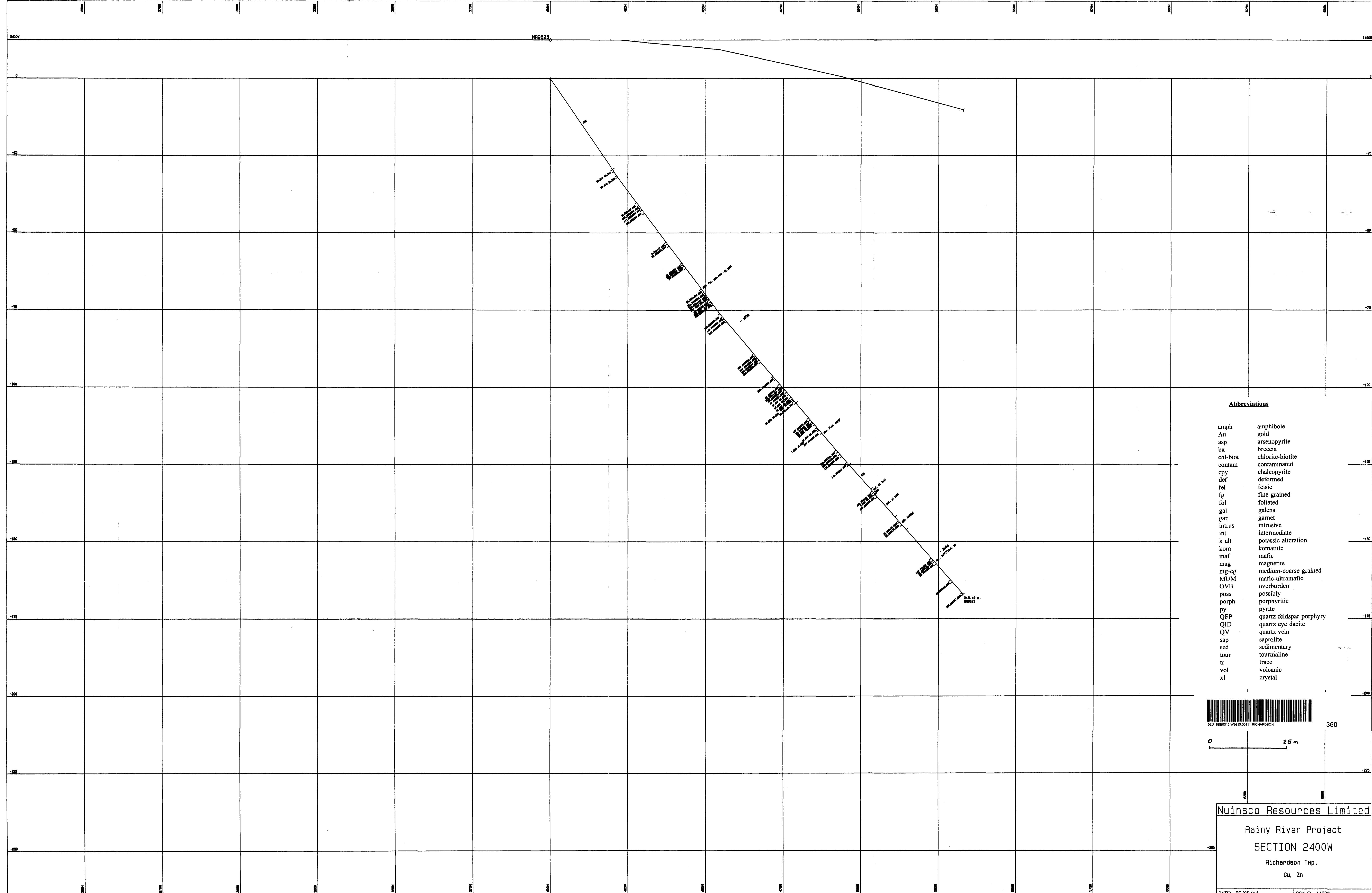


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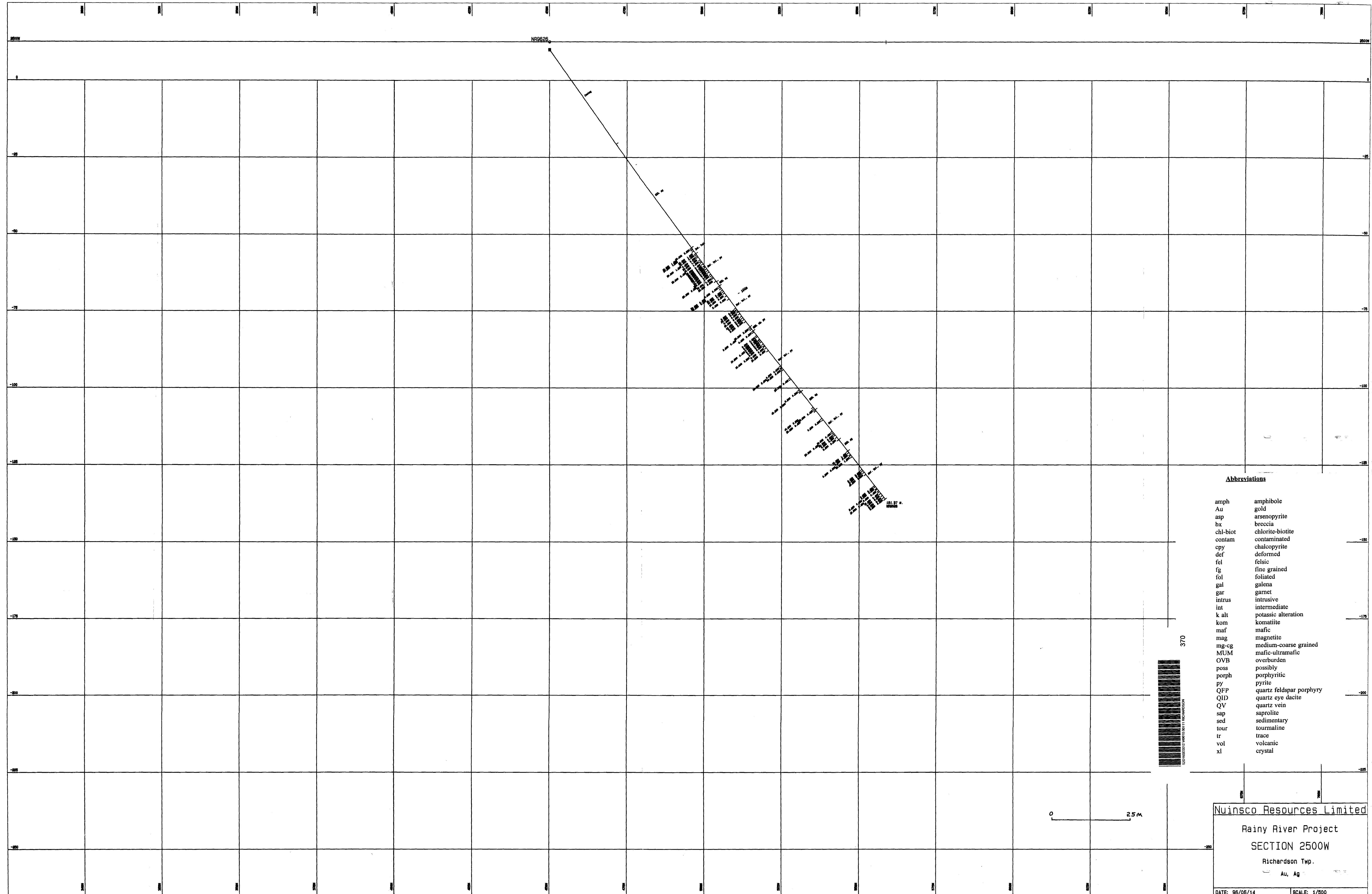


Abbreviations

amph	amphibole
Au	gold
asp	arsenopyrite
bx	breccia
chl-biot	chlorite-biotite
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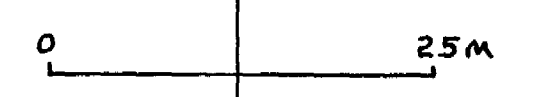
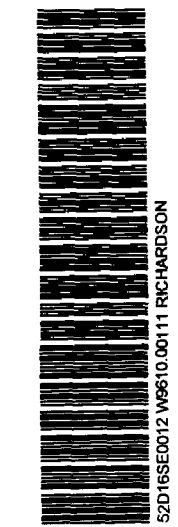
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 SECTION 2400W
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 Cu, Zn
 DATE: 96/06/14 SCALE: 1/500



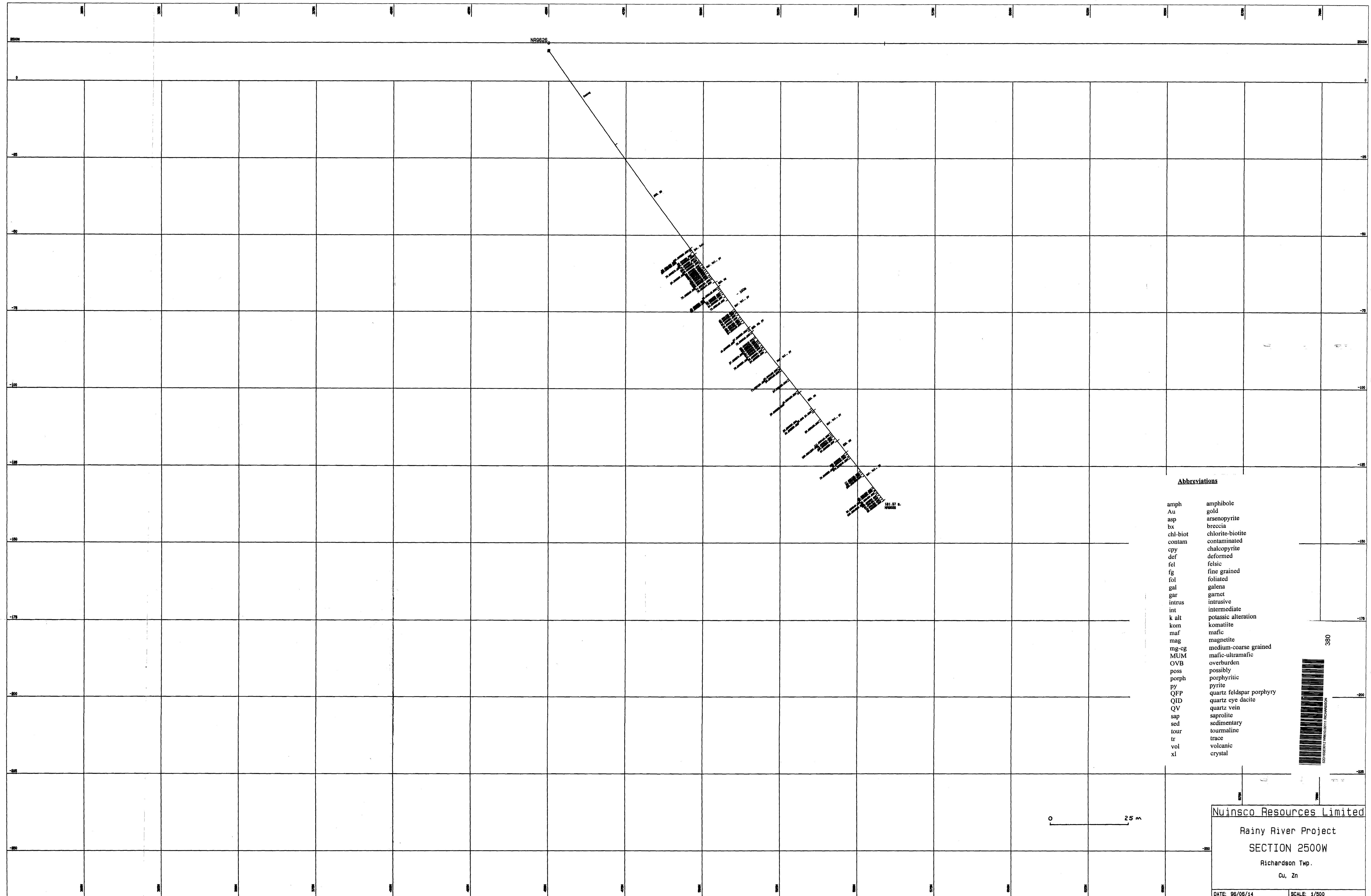
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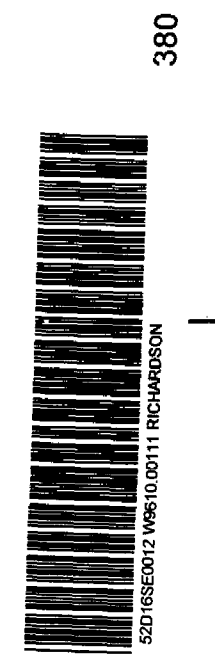


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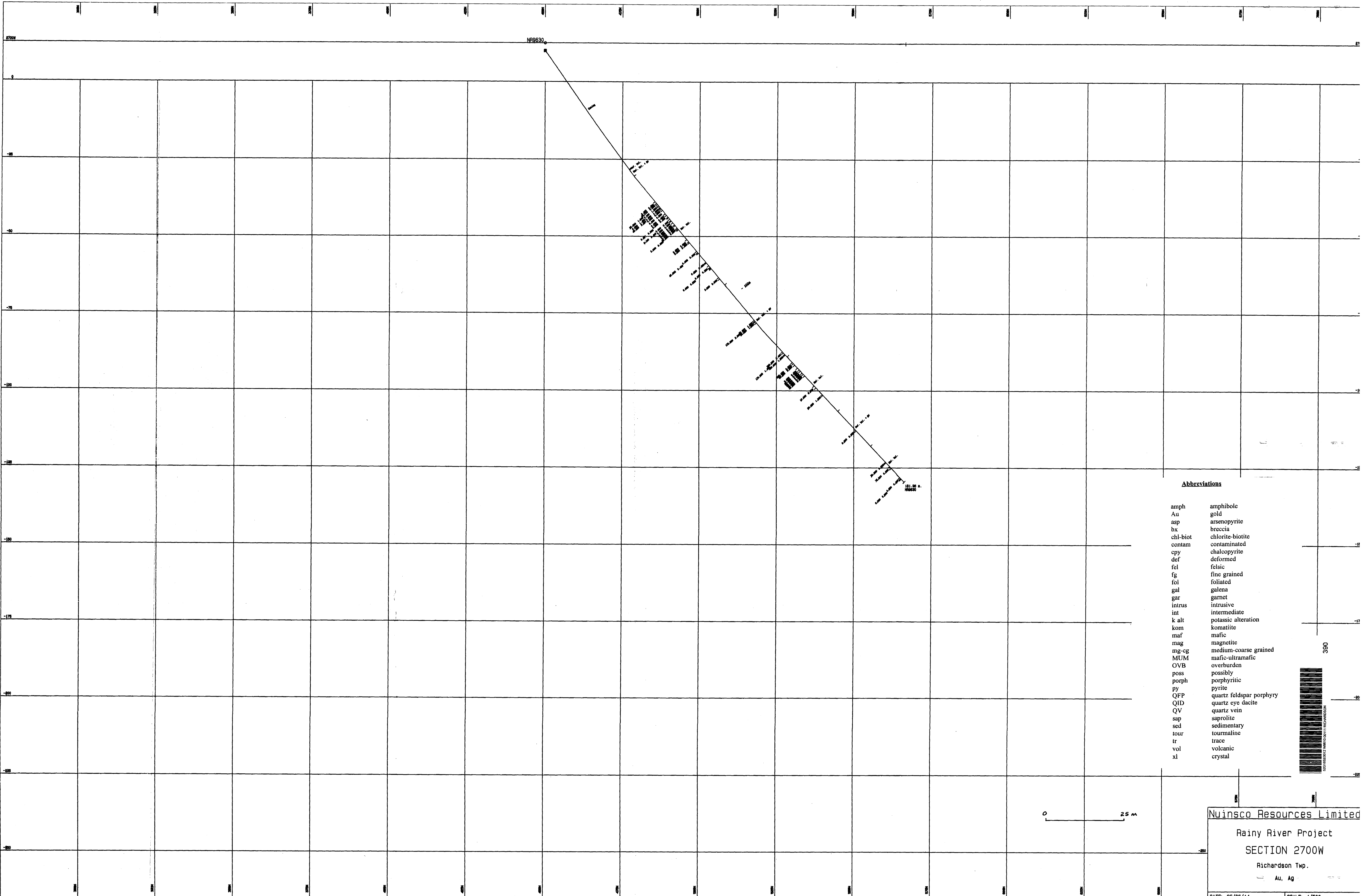


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 SECTION 2500W
 Richardson Twp.
 Cu, Zn



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QID	quartz eye dacite
QV	quartz vein
sap	saprolite
sed	sedimentary
tour	tourmaline
tr	trace
vol	volcanic
xl	crystal

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