Report of Diamond Drilling

on the Turtle Tank Property, Mine Centre Area, Ontario

for Nuinsco Resources Ltd.

NTS 52 C/10, 52 C/15

District of Rainy River

October, 1996

WAGG Mineral Exploration
and Consulting Inc.
October 31, 1996.

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1.0 SUMMARY

The Turtle Tank property was optioned from Mssrs. Bradley Cousineau, Edward Cousineau, Louis Cousineau, Raymond Cousineau, and Ken Desjardins, by Nuinsco Resources Ltd. in December of 1995, for its potential to host gold and/or base metal mineralization. The acquisition of the contiguous 185 claim property followed the termination of a previous option agreement between INCO Exploration and Technical Services (IETS) and Mssrs. Cousineau et. al. on Nov. 1, 1993, which was initially executed in August of 1990. Several patented mining claims situated within the claim block were also optioned by Nuinsco within the first quarter of 1996.

A considerable amount of geological, geophysical information, as well as both soil and rock geochemical data was gathered during the three year period during which IETS evaluated the property. As well, three diamond drill holes were put down during 1993 to test a felsic volcanic horizon which is host to a number of zinc-rich base metal occurrences.

Since the data collected by IETS was made available to Nuinsco by the Cousineau's, only a limited amount of surface work was performed by Nuinsco personnel prior to drill testing the two gold showings interpreted to have the potential to contain significant tonnage at economic grades.

A total of nine diamond drill holes totaling 1349.71 metres were put down by Ultramobile Diamond Drilling of Surrey, B.C., between May and August of 1996. Analyses of the core, however, did not reproduce reasonably high grade results obtained from samples collected during a period of due diligence, prior to execution of the option agreement. Consequently, it is unlikely that any further work will be undertaken on the property.

2.0 LOCATION AND ACCESS

The Turtle Tank property is located six kilometres east of the village of Mine Centre, Ontario, near the eastern limit of the Kenora Mining Division. The area is situated approximately 70 km east-northeast of the town of Fort Frances, which is the nearest major centre and the most convenient source of equipment and supplies. Although the property is located within the Rainy River District, for the purposes of work permit applications, the area is subject to M.N.R. administration out of the Atikokan office.

As shown in Figure 1, provincial Hwy. 11, the C.N.R. railway, and an abandoned hydro-electric power clearance provide excellent access to much of the property. A network of unmaintained gravel roads, and winter skid trails, constructed for logging and aggregate extraction, allow access to virtually all parts of the property.

3.0 PROPERTY DESCRIPTION

The claim block consists of 185 contiguous unpatented mining claims (Cousineau Option), as well as 6 patented claims known collectively as the "Pidgeon Option", all held under option by Nuinsco Resources Limited, with corporate offices at 908 The East Mall, Etobicoke, Ontario, M9B 6K2.
Claim numbers are as follows:

K 896503-506	K 1050332-333
K 968129-133	K 1050563-566
K 970247-251	K 1050574
K 970302-307	K 1050577-578
K 1018554-557	K 1050580-581
K 1018559-560	K 1050642-643

K 1018576-580	K 1050812-816
K 1018601-613	K 1051135-137
K 1024616-619	K 1079977-999
K 1024911-913	K 1084000-025
K 1024915	K 1084027-029
K 1024927-929	K 1084031-032
K 1025126-131	K 1084034-045
K 1050200-205	K 1084048-049
K 1050211-217	K 1104630-634
K 1050223-227	K 1104655-658
K 1050234-237	K 1108978
K 1050328-329	K 1105410

The patented claims are numbered K 298, K 300, K 301, K 304, K 309, and K 683.

Much of the property has been logged during the past ten years or so, and subsequently replanted with jackpine. Mature stands of mixed jackpine, red pine, spruce, with lesser birch and poplar are largely restricted to areas along the northern and eastern margins of the property.

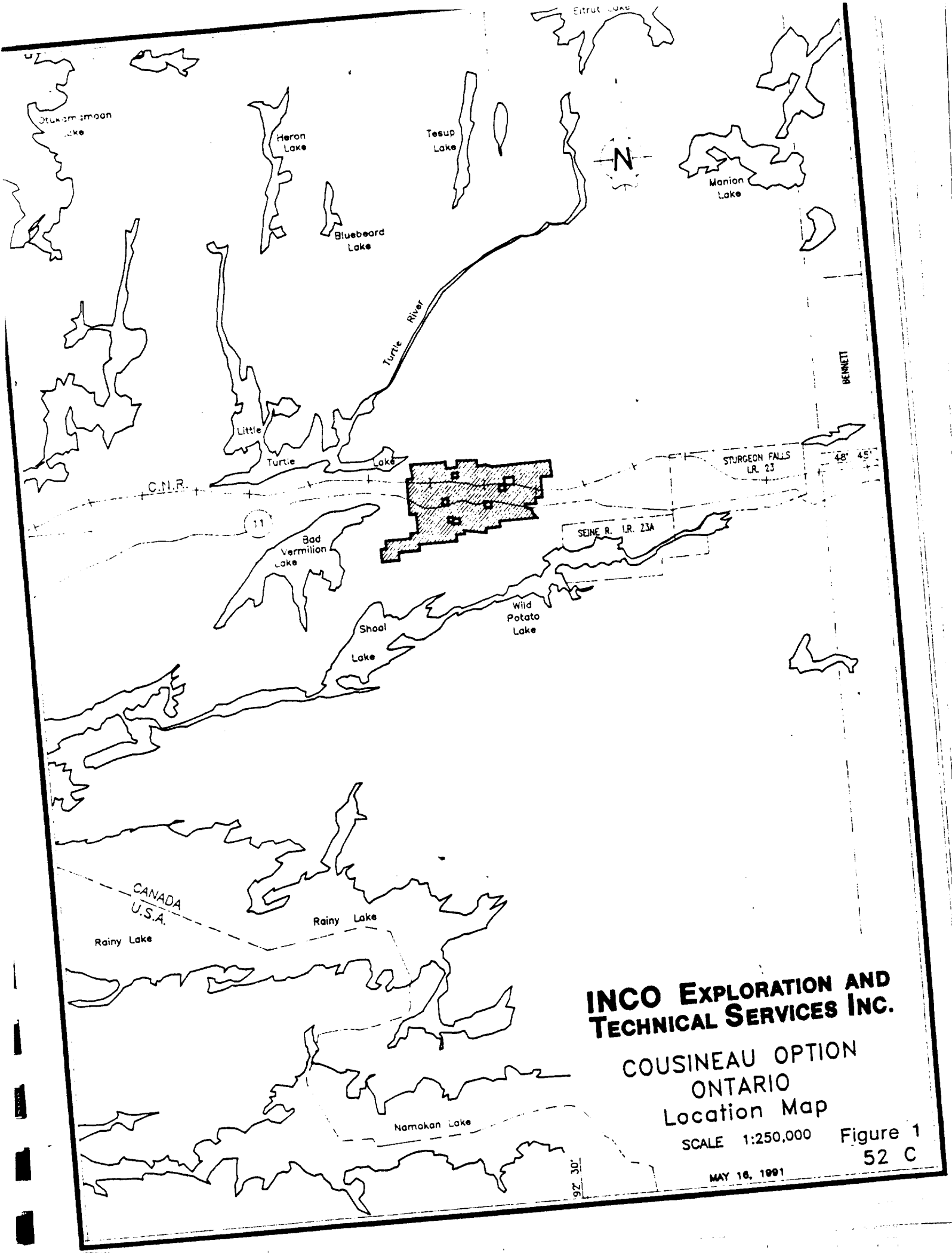
Overburden cover is extensive over most of the property. Several large pits have been excavated between the highway and the CNR line in order to extract sand and gravel. In places, depths of about 30 metres have been reached without exposing bedrock. The best "continuous" exposure of bedrock is found along a ridge extending southwesterly from the highway for about 1.5 km from the vicinity of claim K 300.

4.0 EXPLORATION HISTORY

Exploration in the Mine Centre area dates from the 1880's, when prospectors first entered the area, in part as a result of gold discoveries along the southern shore of Rainy Lake within Minnesota. Numerous gold occurrences were found in the area, and a multitude of claims were patented during this period, however, almost all have now reverted to the crown, and only three past producing vein deposits are deemed worthy of mention by most writers. They are the Foley, Golden Star, and Olive Mines.

The author is personally familiar with only one of these. The Olive Mine exploited a narrow (generally <15cm) stratiform vein, hosted by banded intermediate to felsic metavolcanics, that contains less than ten percent pyrite, minor chalcopyrite, and considerable fine to coarse free-milling gold.

Base metals were found to occur in the area by the early explorers, but they received relatively little attention until the mid 1950's, after which a succession of companies have intermittently carried out exploration programmes for copper-rich or polymetallic base metal deposits. No substantial massive sulphide bodies have been identified to the author's knowledge, however limited production has resulted from the mining of vein deposits, primarily for gold and silver, some of which contained appreciable copper, zinc, and lead sulphides.



INCO EXPLORATION AND TECHNICAL SERVICES INC.

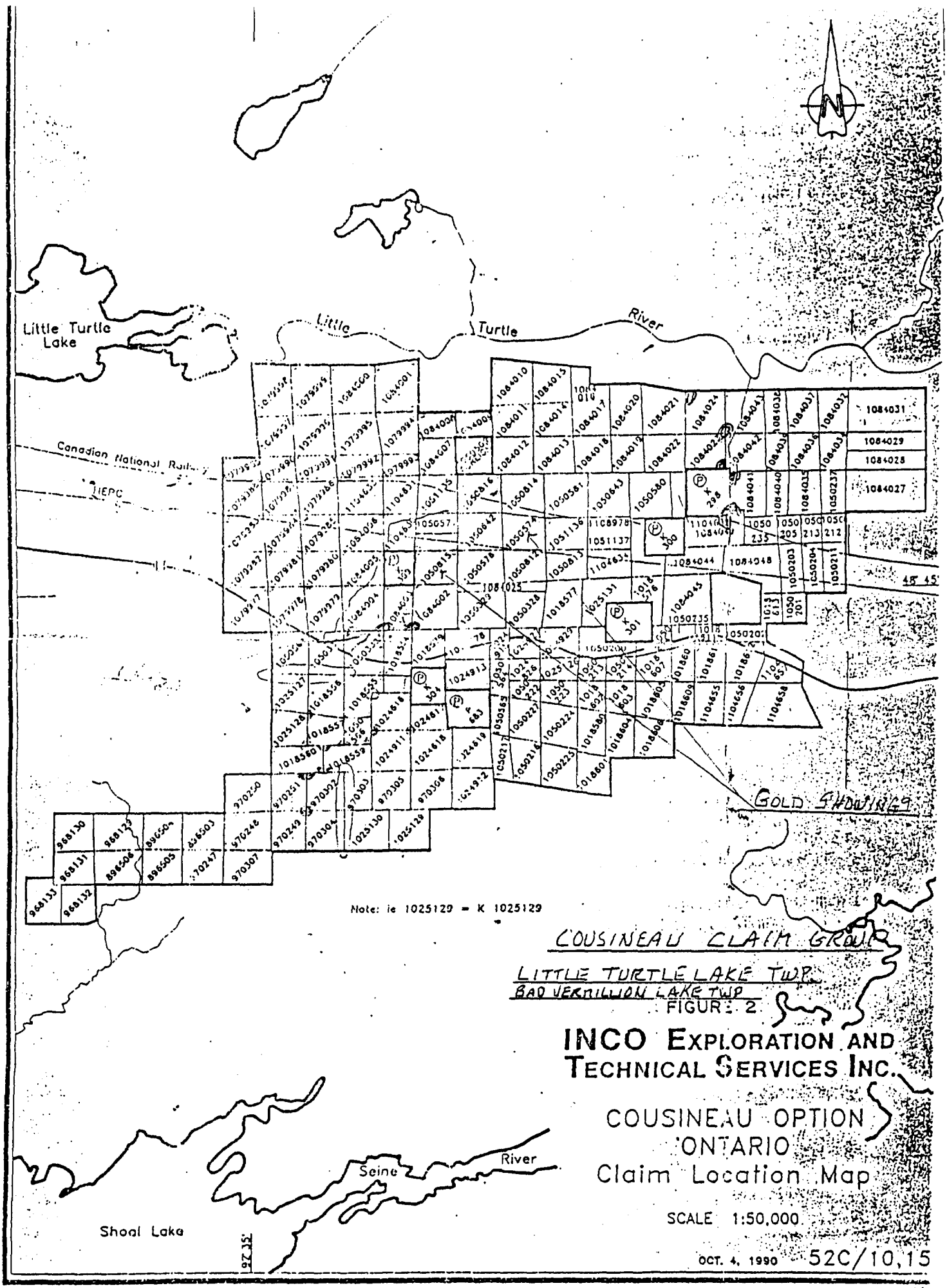
COUSINEAU OPTION
ONTARIO
Location Map

SCALE 1:250,000

Figure 1

52 C

MAY 16, 1991



COUSINEAU CLAIM GROUP

LITTLE TURTLE LAKE TWP.
BAD VERMILLION LAKE TWP

FIGURE 2

INCO EXPLORATION AND TECHNICAL SERVICES INC.

COUSINEAU OPTION
ONTARIO
Claim Location Map

SCALE 1:50,000

OCT. 4, 1990 52C/10,15

On the Turtle Tank property itself, the earliest well documented work was undertaken in 1969 by Kerr Addison Mines on patent K304. The work consisted of six diamond drill holes totaling 204.8m targeting a felsic horizon mineralized with pyrite, sphalerite and lesser chalcopyrite, galena.

In 1970, following a comprehensive regional programme of geology, geophysics and geochemistry, Northgate Explorations Limited drilled 4 holes near the western boundary of the claimgroup, testing pyrite-chalcopyrite mineralization associated with a contact between mafic metavolcanics and rhyolite.

Over the period 1975-1976, Hanna Mines conducted geological mapping and various geophysical surveys over much of the property. Three holes were drilled in search of base metals. Two tested portions of rhyolitic horizons in the northeastern corner of the property, and one hole located in the southern part of the property was apparently collared in mafic metavolcanics, possibly to test a conductor subsequently identified by an EM-37 survey undertaken by IETS in 1991-'92. 0.8% Zn was reported over 0.76m.

In 1989, George Armstrong of Fort Frances, Ontario, optioned part of the southern portion of the property, and drilled three diamond drill holes a short distance further southwest of previous drilling, for a total length of 340.16m. A 2.26m interval reportedly assayed 1.18% Zn, 0.13% Pb, and 0.07% Cu.

In 1989, Goldfields Canadian Mining Limited optioned the property and flew an airborne magnetometer and VLF-EM survey. Stripping and channel sampling were completed on the A zone gold showing at that time. Shortly thereafter the option was terminated without filing the work for assessment.

Between 1990 and 1993, IETS carried out a comprehensive exploration programme targeting both gold only and base metals deposits. In 1990, Questor Surveys was contracted to fly airborne magnetometer and electromagnetic surveys totaling about 370 line km. As well, linecutting totaling 24.2 km of baselines and 204 km of grid lines was completed, and an IP survey carried out over 15 line km in the northwestern part of the property.

During 1991, geological mapping and lithogeochemical sampling were completed over the entire property. Two gold showings, seven zinc showings, and two copper showings were located. As well, trial soil surveys, and stripping and trenching of the gold zones was undertaken, followed by 1:2500 scale mapping of some of the showings. Ground magnetometer and EM-37 surveys commenced late in the year over felsic horizons which lithogeochemistry indicated were favourable hosts for base metal deposits.

In 1992, two diamond drill holes totaling 727m were put down to test geophysical anomalies, and the holes subsequently probed by pulse EM. And during 1993, additional IP work, and a horizontal loop electromagnetic survey (HLEM) were completed, and three diamond drill holes totaling 1127.7m were drilled to test geophysical and lithogeochemical (alteration) anomalies. The holes were tested by downhole pulse EM, but no new targets were identified. IETS relinquished their option on the property on November 1, 1993, and the property reverted to its current owners.

5.0 REGIONAL GEOLOGY

The area lies within a greenstone belt situated in the Wabigoon geological sub-province of the Superior structural province of the Precambrian Shield. Around Mine Centre, two regional east-westerly structures divide the region into three geologically distinct domains. To the north of the Quetico Fault migmatized intrusive rocks predominate, with intermediate to felsic varieties by far the commonest type. To the south of the Seine River Fault, waterlain sandstones and arenites are greatly predominant. The Turtle Tank property itself is situated between the two structures, within a geologically complex area composed of intercalated mafic to felsic metavolcanics intruded by mafic to ultramafic and granitic intrusives, all overlain unconformably by pebble conglomerates and sandstones of the Seine River Series, (Wood, J. et. al., 1980).

The central wedge between the two faults is tightly folded into a series of antiforms and synforms which plunge gently to the southwest. Although isoclinal minor folds complicate the stratigraphy, tops and younging direction appear to be generally to the south. A regional foliation is developed subparallel to the limbs of the folded metavolcanic and metasedimentary rocks. The foliation trends N70E with dips typically steep to the southeast.

6.0 PROPERTY GEOLOGY

The property is situated between the Quetico and Seine River Faults, and is cut by a southwesterly trending, sub-parallel splay off the Quetico structure. This splay divides the property into a northern block, which possesses an east-westerly trending foliation, and a southern block within which foliation trends about 070 degrees.

The northern block is underlain by mixed mafic to felsic flows and tuffs, which are tightly folded in places, cut by numerous zones of shearing, and are often strongly calcite or iron-carbonate altered. Rare, thin beds of chemical sediments are occasionally associated with massive mafic flows. The sediments include both iron formation and chert, as individual beds commonly under 1 metre thick. Overlying the metavolcanic package, unconformably, to the south and southwest, is a broad zone underlain by the Seine polymictic conglomerates, with a grey-green volcanic derived matrix and minor interbedded arenaceous sediment. A granitic intrusive occurs in the extreme northwestern corner of the property, ringed by a relatively thin rind of gabbroic rock.

The southern block is bordered along much of the fault splay in the northwest, and along its southeastern margin, by narrow units of Seine conglomerate. The remainder of the block is primarily rhyolitic, with two interbedded mafic metavolcanic horizons. One rarely exceeds 50m in thickness, while the other varies from around 500 to 1700m thick. The thicker mafic unit has been interpreted to underlie most of the large spruce swamp which is found a short distance to the southeast of the string of zinc-rich base metal occurrences.

Since no comprehensive geological mapping was undertaken over the property by Nuinsco, maps and reports produced by IETS were utilized as a geological database (refer to Map Sheet 1, Property Compilation, in back pocket). Three areas which were investigated in limited detail and the units there encountered, are described in Sections 7.11 to 7.13 under the heading Prospecting/Reconnaissance.

6.1 PROPERTY MINERALIZATION

Several types of metallic mineralization are found on the property. The pyrite-chalcopyrite occurrences previously examined by Northgate Exploration were not reinvestigated by Nuinsco. They have been described as disseminations to podiform lenses of py-cpy in variably sericitized felsic volcanics and quartz crystal tuffs, (IETS, 1992).

Gold is known to occur at two locations to the north of Hwy. 11. At the "A" Zone a broad zone of sheared and strongly altered rock is weakly mineralized with pyrite and exhibits local silicification and quartz-carbonate veining. Assays of up to 63.9 g/t Au have been reported from grab samples, and up to 5.06 g/t Au over 3.5m from chip samples.

The "B" Zone consists of quartz and quartz-carbonate veinlets filling strongly fractured to brecciated rock, apparently localized at a fold nose or along a fold crest. Pyrite and chalcopyrite occur within the veinlets as disseminations, fracture fillings, and as small pods up to about 10cm by 30cm. Gold values up to 24.07 g/t Au have been reported from grab sampling, and values of 13.2 g/t and 11.6 g/t Au have come from chip samples over 2.5 and 2.0 metres respectively, both containing about 2% cpy.

The 1991 IETS annual report on the Cousineau Option states that 1991 channel sampling failed to duplicate these high grade values, and suggests "that the gold mineralization has a strong nugget effect", (IETS, 1991,

p.7), i.e. that the presence of native gold, possibly intimately associated with the sulphides, results in the erratic high-grade values. The highest value returned by the 1991 channel sampling was 4.32 g/t Au over 1.5m from the B Zone.

The property hosts a number of zinc-rich base metal occurrences within altered felsic metavolcanics. They will be discussed as a group, because of common mineralogical characteristics, and because the primary mineralized trend occurs just above a contact between quartz crystal tuffs and mafic metavolcanics (to the southeast). Both the contact and sporadic base metals mineralization have been traced by previous operators for a distance of about 2.5 km, extending from L 113+00 E, at 79+00 N (south of patent K304) northeasterly to L 133+00 E, at 89+00 N, near the southwest corner of patent K301.

Rocks in the vicinity of the showings display strong sericite alteration and carry disseminated pyrite at levels from several percent up to 15-20% locally. Sphalerite occurs disseminated and as narrow streaks and lenses, usually <5cm thick, associated with zones of local quartz flooding and with sub-cm, foliation parallel quartz stringers. Minor galena and chalcopyrite occur in places, generally within stringers or along with massive sphalerite. Results from IETS grab sampling have returned values up to 1.94 g/t Au, 130 g/t Ag, and 14.0% Zn from separate samples, however, chip sampling and previous drill intersections have returned much lower average grades. IETS work also revealed a widespread sodium depletion anomaly across the unit hosting the base metals.

Blasted pits and trenches have been excavated at all of the known zinc occurrences, and many smaller pits can be found elsewhere through the unit, usually in areas exhibiting strong reddish to black staining and usually carrying disseminated pyrite.

7.0 EXPLORATION PROGRAMME

The 1996 program by Nuinsco was primarily focused on drill testing known gold showings previously identified by IETS and other previous operators, which for various reasons, were never tested by drilling. Consequently, only a limited amount of reconnaissance work/prospecting and minor detailed mapping was completed by the author.

Nuinsco's acquisition of the Turtle Tank property was motivated primarily by the gold values obtained from the A and B zones. Both areas, which were drill tested during 1996, appeared to offer the potential to host a substantial deposit of gold bearing mineralization. Definition of either a small and relatively high-grade body, as anticipated at the B Zone area, or a larger relatively low-grade body of "gold only" mineralization, as anticipated at the A Zone, was the objective of the programme; in order to complement proven gold reserves on the company's Cameron Lake property located midway between Fort Frances and Kenora.

A limited amount of detailed mapping and surface sampling was undertaken in the vicinity of the two showings tested by drilling, and minor prospecting/reconnaissance work was completed over the felsic horizon hosting the base metal showings, where future drilling was under consideration.

A cursory examination of the felsic stratigraphy hosting the zinc occurrences between K304 and K301 focused on locating and examining known showings, primarily in order to assess the likelihood of continuity between those situated close to the mafic-felsic contact, and to determine whether stripping or trenching in overburden covered areas might extend the strike length of the known zones or result in new discoveries. An additional objective was to test the hypothesis that the zinc showings could represent podiform "high-grade" concentrations of mineralization of entirely epigenetic origin, lying within a sheared and altered envelope of weakly (or locally) mineralized rock, which when considered as a whole, might contain from one to several grams per tonne gold, (including gold equivalent from silver and base metals). As such the target deposit type could be described as a large tonnage relatively low-grade polymetallic deposit--a situation somewhat analogous to the company's ongoing Richardson Twp. exploration project.

A portion of the IETS grid was recut and the stations rechained in relation to the original baseline. The area covered extends north from a line trending about 040 degrees between L 110+00 E, 70+00 N, and L 118+00 E, 75+00 N. The lines each extend to the north to about 87+00 N, and cover an aggregate distance of 11.8 line km. In addition, a drilling grid, with 25m line spacing, was cut over the B Zone area. The lines cut are 115+00 E to 118+00 E from 93+00 N to 97+00 N, totalling an additional 5.2 line km. The linecutting was completed by Mr. Donald MacEachern, and Mr. Charlie Walsh of Fort Frances, Ontario, over a period of 15 days between May 20 and June 10, 1996.

7.1 PROPERTY RECONNAISSANCE

Geological reconnaissance of selected parts of the property commenced on the 4th of May, 1996, with a property visit to the B zone gold showing in the company of senior project geologist Mr. Paul Jones, who also assisted in the 1: 500 scale mapping of the zone on May 8. An initial visit to the "K", "E", and "C" Zone zinc showings was made, and preliminary grab samples collected on May 15th, accompanied by Mr. Ray Cousineau and Mr. G.F. Archibald, Nuinsco's V.P. Exploration. Throughout the fieldwork phase of the programme, the author was assisted by Damien Englebrecht, a "co-op" geological engineering student enrolled at the University of Waterloo

In all, a total of 14 days were spent on property reconnaissance, and 44 samples were collected for Au, +/- Cu, Pb, Zn, Ag analyses. Sample preparation consisted of pulverization with a chrome steel ring mill to better than 90% minus 150 mesh. Gold determinations were made utilizing classical fire assay procedures, followed by an atomic absorption (AA) finish. Silver and base metal determinations were made utilizing an aqua regia (HNO_3) leach technique, followed by an AA finish. Four samples from the vicinity of the A zone were analyzed for major oxides and trace elements (Wholerock Geochemistry) by traditional X-ray diffraction methods (XRD). All analyses were performed by Chemex Labs Ltd. of North Vancouver, B.C., with the samples submitted to their sample preparation lab in Thunder Bay, Ontario. Sample locations appear on the Property Compilation Map, and assay results are shown in Table 1 (on the next page), along with brief sample descriptions. Assay Certificates are included in Appendix C.

7.11 B Zone Area

The stripped area which measures about 30m by 40m, and scattered bedrock exposures to the north and northwest were mapped primarily for the purposes of planning drillhole collar locations. Observations suggest asymmetric folding of the mafic tuff unit which hosts the bulk of the quartz-carbonate veining and mineralization, (See **Figure 3. Section 7.21**). Larger veins and many of the stringers parallel foliation, and are associated with narrow subparallel zones of shearing , developed adjacent to the long limbs of parasitic (drag) folds along the contact between mafic tuff and rhyolite.

Two surface samples were collected from trenches located north of the stripped area. The trenches expose 10cm to 50cm wide veins containing 2-3% cpy and up to 5% py in places, hosted within strongly sheared and sericite altered felsic rocks. Both samples returned values of <100 ppb Au.

Drill holes shown on Figure 3 have been projected vertically. The inferred location of the northern contact of the mafic unit in which many of the holes bottomed is very approximate, as the area updip is completely overburden covered.

NUINSCO RESOURCES LTD	SAMPLE RECORD	FIELDWORK				
Sample #	Location	Comment	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm
71801	0E, 4S	A Zone	<5				
71802	0E, 7S	WRA*	(wholerock analyses)*				
71803	0E, 18S	WRA					
71804	20E, 4N	A Zone	<5	Coordinates for A Zone samples are			
71805	30E, 8N	WRA		relative to a local datum point.			
71806	30E, 6N	A Zone	175				
71807	43E, 4N	WRA					
71808	43E, 4N	A Zone	80				
71809	38E, 2N	A Zone	23410				
71810	1+67E, 0 to 5S	A Zone	40				
71811	N Trench	C Zone	90	220	4400	3.2	470
71812	S Trench	C Zone	20	20	185	0.8	162
71813	C Zone		<5	24	65	<5	23
71814	C Zone		<5	8	183	<5	7
71815	C Zone		<5	77	1400	0.6	11
71816	N Trench		1850	1950	41400	33	15000
71817	Shaft	P claim	<5				<0.2
71818	Shaft	P claim	40				4.6
71819	Shaft	P claim	1340				1.2
71820		Angular Float	15	24	1350	1.4	360
71821	Iron Fmtn?		<5				<0.2
71822	Shaft #2	Alice A	105	193	240	1.4	450
71823	Trench between Shafts	Alice A	1040	116	28	<0.2	45
71824	Rubble same loc as 823		3150	16	75	5	230
71825	W side #2	Alice A	1670	152	400	0.6	220
71826	#2 Shaft	Alice A	745	780	2900	8.8	4200
71827	Shaft #1	Alice A	9410	170	5800	3.2	560
71828	Shaft #2	Alice A	2890	700	3.37%	48	4.38%
71829	Same as 828		2920	96	1.72%	11.8	1.28%
71830	Same as 828		25	100	123	<0.2	176
71831	Same as 828	Alice A	280	430	2300	10.2	7000
71832		Alice A	290	14	177	<0.2	188
71833	Pigeon Patent	N of Hwy	140	24	75	0.6	83
71834	(Zn showing)	N of Hwy	55	135	1.58%	2.4	230
71835	13345E, 8880N	N of Hwy	35	171	6.18%	2.2	330
71836	Same as previous	N of Hwy	50	185	2800	2	117
71837	Pigeon Patent	N of Hwy	135	3600	3.95%	28	1.18%
71838	Pigeon Patent	N of Hwy	115	630	4700	7	580
71839	Pit	H Zone	50	35	1150	1.6	300
71840	Same as previous		135	250	1.32%	4.8	197
71841	Same as previous		60	335	2600	6.6	90
71842	Grab	H Zone	80	630	3.02%	8.4	340
71843	Grab	H Zone	65	1050	4.76%	4.4	220
71844	HG Grab	K Zone	70	2550	10.91%	27	600
71845	Trench Av. Grab	K Zone	45	1800	1.30%	12.6	57
71846	Sph seam, 5cm wide	E Zone	315	6200	6.69%	25	500
71847	Sph seam, 20cm wide	E Zone	685	4250	15.29%	46	1450
71848	Trench Av. Composite	E Zone	10	65	960	0.6	40

Sample #	Location	Comment	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm
71849	Unit SE of mineralization	E Zone	135	550	1.04%	12.4	3200
71850	2.35m Chip	C Zone	70	154	2200	2.2	500
71851	Grab, same as 816	C Zone	1260	2350	3.26%	26	2500
71852	S Pit, 85cm Chip	C Zone	340	680	1.74%	12	3000
71853	113+75E, 80+35N	rusty fels. tuff	20	15	290	0.8	137
71854	N side of Trench	D Zone	40	280	5500	7.4	810
71855	S side of Trench	D Zone	100	420	7500	7.6	840
71856	HG Grab, rubble	D Zone	440	2400	9.13%	64	7700
71857	Sph seam, 10-15cm wide	D Zone	210	2400	6.66%	59	3800

7.12 A Zone Area

A brief examination of the A zone and vicinity was completed May 12th. A east westerly trending line was chained over the 200 metre length along which the shear zone has been traced. Mappable features and sample locations appear on **Figure 4., Section 7.22**. Intense shearing and iron-carbonate alteration occur across a width of 7 to 8 metres, locally up to 12 metres. Pyrite mineralization is sparse, and largely restricted to a few narrow alteration "horizons", well exposed only on the outcrop beneath which drillholes NTT 96-06 and NTT 96-09 tested.

Quartz veining is also uncommon in general within the A Zone, and those present appear to contain little other than minor crystalline iron-carbonate and a few percent pyrite from place to place. Only a few (<5cm to 10-15cm wide) veinlets exhibit extensive strike lengths, mostly through the central portion of the zone. A few sizable quartz pods occur toward the eastern end of the zone's exposure, and one small area of intense silicification and quartz flooding was observed, measuring about 30cm by 1.5 to 2.0m, around sample 71804.

Of the six surface samples collected for Au analysis, only one returned a significant assay value. Sample 71809, a grab sample of a 5cm wide semi-massive pyrite seam associated with a 10 cm thick bed of cherty material (possibly very fine grained veining), obtained from the main trench along L 127+00 E, at 98+30 N assayed 23.4 g/t gold. The sample contained 30-40% pyrite, and the high-grade assay likely indicates the presence of native gold within the sulphide seam. A cherty unit was noted at the extreme western end of the zone, directly along strike, but contained little if any sulphide at this point, and was not sampled.

The shear crosscuts the geological contacts observed in the vicinity at a very low angle. Several narrow structures which are parallel to (or splays from) the main structure, were observed 5 to 10 metres to the north of the main shear, on the large outcrop at the eastern end of the zone. Deformation appeared to have occurred preferentially within mafic units, along the contacts with more competent lithologies including rhyolitic tuff and thin beds of nodular chert.

7.13 Base Metal Zones

A total of six days were spent examining the corridor of strongly altered felsic volcanic rock which extends southwestward from patented claim K301, for a distance of about 2km, to just southwest of patents K304 and K683. The work was completed between May 15 and May 27. In addition, 3 days in total were spent prospecting patented claims K 301, K300, and K298 (for which little exploration data exists), and the area around patents K304 and K683, south to approximately 70+00 N, and westerly to L 110+00 E. This reconnaissance work was conducted concurrently with gridline re-establishment, with the intention of mapping patents K304 and K683 once the linecutting was completed. A few minor additions and revisions of geological contacts have been made to portions of the Property Compilation Map in areas shown on main IETS sheets D6, E6, E7, F5, and F6.

Twenty six samples were collected from the area examined, and analyzed for Au, Ag, Cu, Pb, Zn by Aqua Regia methods. The results are presented in Table 1, and assay certificates are included in Appendix 1. Sample locations are shown on the Property Compilation Map.

Only 2 samples returned gold values in excess of 500 ppb (0.5 g/t). Sample 71847, a grab from a 20cm wide semi-massive sphalerite seam from the E Zone contained: 685 ppb Au, 0.425% Cu, 15.29% Zn, 46 g/t Ag, and 0.145% Pb; and sample 71816, a grab from the extreme northern end of trenching at the C Zone contained: 1850 ppb Au, 0.195% Cu, 4.14% Zn, 33 g/t Ag, and 1.5% Pb.

Several pits were selectively chip sampled in an effort to obtain an approximate average grade for the exposure. At the H Zone, a 1.80m aggregate length averaged 82 ppb Au, 0.02% Cu, 0.56% Zn, 4.3 g/t Ag, and 0.19% Pb. Grab samples analyzed up to 4.76% Zn and 0.1% Cu, but gold content was typically <100ppb.

At the D Zone, a 1.90m aggregate length chip sample averaged 78 ppb Au, 0.037% Cu, 0.676% Zn, 7.5 g/t Ag, and 0.083% Pb. At the same location, two grab samples contained: 440 and 210 ppb Au, 0.24% and 0.24% Cu, 9.13% and 6.66% Zn, 64.0 and 59.0 g/t Ag, and 0.77% and 0.38% Pb, respectively. The first set of values came from high-grade blasted trench rubble, while the second set are representative of a 10-15cm wide semi-massive sphalerite seam. And At the Northern end of the C Zone a 2.25m representative chip sample returned 70 ppb Au, 154 ppm Cu, 0.22% Zn, 2.2 g/t Ag, and 500 ppm(0.05%) Pb

Examination of the vicinity of the I Zone, located near the southwestern corner of patent K301, revealed strong widespread sericite alteration and bleaching of well foliated to weakly sheared felsic quartz crystal tuffs. Sphalerite, increased levels of pyrite, and lesser chalcopyrite and galena occur associated with relatively narrow conformable zones of silicification and cm-wide quartz stringers. The zinc mineralization is exposed intermittently over 25-30m by small pits and shallow trenches, and appears nearly identical to that exposed at the E, F, and H zones. The highest zinc value returned by samples from the area was 6.18%, and sample 71837 (rep. across 10cm wide sil./vein) near the eastern limit of bedrock exposure contained: 35 ppb Au, 0.36% Cu, 3.95% Zn, 28 g/t Ag, and 1.18% Pb. These values are comparable to the numbers obtained from sampling similar material at the extensively drill tested showings along the trend between the C and F zones.

Samples which meet one or more of the following criteria: **Au >500 ppb, Cu >1000 ppm(0.1%), Zn >1%, Pb >1000 ppm, or Ag >10 ppm**(10g/t), have assay results shown on the Property Compilation Map.

Few observations were made on the geology of the areas examined, however, south of the C Zone it was noted that at least one unit of mafic to intermediate crystal tuff occurs between the mafic-felsic contact and the base metals mineralization. A more pertinent observation perhaps, is that the depth of weathering and the degree of oxidation of the intensely altered felsic country rock significantly hinders surface exploration. At several pits, particularly the E and H zones, sulphide mineralization is oxidized and in most places substantially leached to a depth of 30-60cm, due to the slightly porous nature of the weathered exposures. Around the old pits and trenches, hematitic staining and the presence of quartz stringers are often the only indications of potential base metals mineralization which can be seen, without expending considerable effort on hammer and chisel work.

7.2 DIAMOND DRILLING

The drilling equipment was moved onto the property May 9, 1996, and the first hole of the programme commenced the next day at the B Zone. Drilling was halted temporarily June 25 after completing 5 holes at the B Zone gold showing, and drilling an initial hole at the A Zone gold showing. The halt was called in part in order to allow the assayer to clear a backlog of samples, and also to allow company personnel time to evaluate the results of the initial holes. Concurrent with work on the Turtle Tank property, both company personnel and the drilling contractor were engaged in an ongoing drill programme in Richardson Twp. Drilling recommenced July 16 with a further two holes planned at the B Zone. The work concluded July 31 with the completion of drillhole NTT 96-09 at the A Zone.

A JKS Boyles Hydra-core drill and BDBGM (BQ thinwall) drill rods were utilized, producing a core measuring 41 mm in diameter. Drill moves were accomplished by towing the drill with a skidder along existing haul roads between the two stripped areas tested. The work was planned and supervised by Mr. G.F. Archibald, P.Geo., and Mr. Paul Jones, B.Sc., the company's Senior Project Geologist. The author of the report was responsible for marking chosen collar locations, monitoring drilling progress, and examination and sampling of the core. Core handling, cutting and shipping were performed capably by Mr. Oscar Burnell, of the village of Finland, Ontario, located to the north of the town of Emo, with postal code

POW 1E0; close to the company's permanently established core shack and storage facility located within part of Lot 6, Conc. III, Richardson Township, in the Municipality of Chapple.

All samples were analyzed for gold and copper, or the suite of gold, silver, copper, lead, and zinc. Samples were taken with the foreknowledge that any gold present might occur as grains of native metal, and sample lengths were consequently often fairly short, in order to ensure that a relatively large proportion of the material submitted was physically subjected to analysis. The samples were analyzed by the assayer and methods detailed earlier.

Plan Maps of the two zones drilled are included in the following sections as Figures 3 and 4. Analytical results appear printed on the drill logs, which are included as Appendices A and B for the A Zone and B Zone respectively, along with drill sections depicting gold values in a bar graph format.

Neither of the zones returned sufficiently encouraging gold values to prompt further investigation of the property.

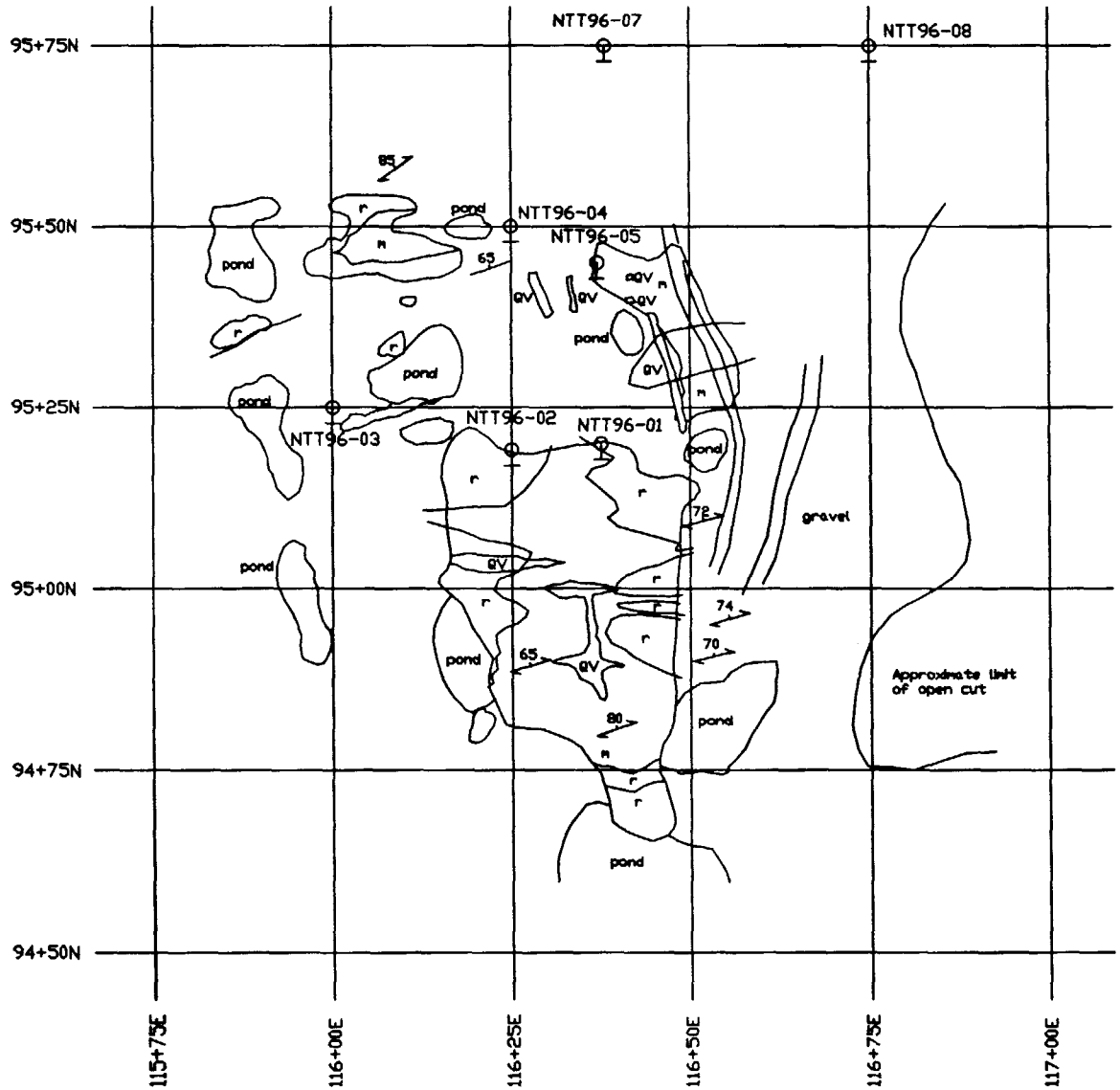
7.21 B Zone Diamond Drilling

The collar location data, final depths and dates drilled for drillholes NTT 96-01 to NTT 96-05 , as well as NTT 96-07 and NTT96-08 appear below:

Hole No.	Easting	Northing	Az./Incl	Final Depth	Dates Drilled
NTT9601	116+37E	95+20N	180/-40	76.20m	10/05/96-12/05/96
NTT9602	116+25E	95+19N	180/-40	76.20m	12/05/96-15/05/96
NTT9603	116+00E	95+25N	180/-40	76.20m	16/05/96-18/05/96
NTT9604	116+25E	95+50N	180/-50	85.34m	18/05/96-20/05/96
NTT9605	116+37E	95+45N	180/-45	83.84m	21/05/96-23/05/96
NTT9607	116+37E	95+75N	180/-50	121.00m	23/07/96-25/07/96
NTT9608	116+75E	95+75N	180/-50	106.00m	26/07/96-28/07/96

The holes encountered a series of mafic tuffs and intermediate to felsic flows and tuffs. The units varied considerably in thickness from hole to hole due to being drilled from north to south across the fold nose hosting the veining and mineralization. Consequently, although contacts could occasionally be interpreted between adjacent holes, it is difficult to interpret structural data from holes drilled peripheral to the showing, since good bedrock exposure is limited to the small stripped area immediately to the south of holes NTT 96-01 and 1996-02.

Although the entire area is strongly altered and sheared to varying extent, veining over substantial core lengths was largely restricted to holes NTT 96-01 and NTT 96-05. Holes NTT 96-02, 96-03, and 96-08 encountered intermittent veining over 10-15m core lengths. Stringers and veinlets of quartz, with subequal to lesser iron-carbonate, trace to a few percent pyrite, and sometimes trace chalcopyrite, and occasional larger veins up to 25-50cm in thickness--rarely to 1.0-1.5m were observed primarily near and along mafic-felsic contacts. Veining was also present associated with strongly folded? contacts between or within intermediate to felsic sections of contrasting ductility, i.e. prone to fracturing vs. prone to shearing. Overall, both veining and mineralization are best developed where rapid variations in the foliation orientation, and short rapidly alternating mafic-felsic sequences are presumably indicative of drag folding along the same contacts exposed at surface by stripping.



Legend

m - mafic volcanics
QV - quartz vein
r - rhyolite

Location of drill holes with respect to claim disposition

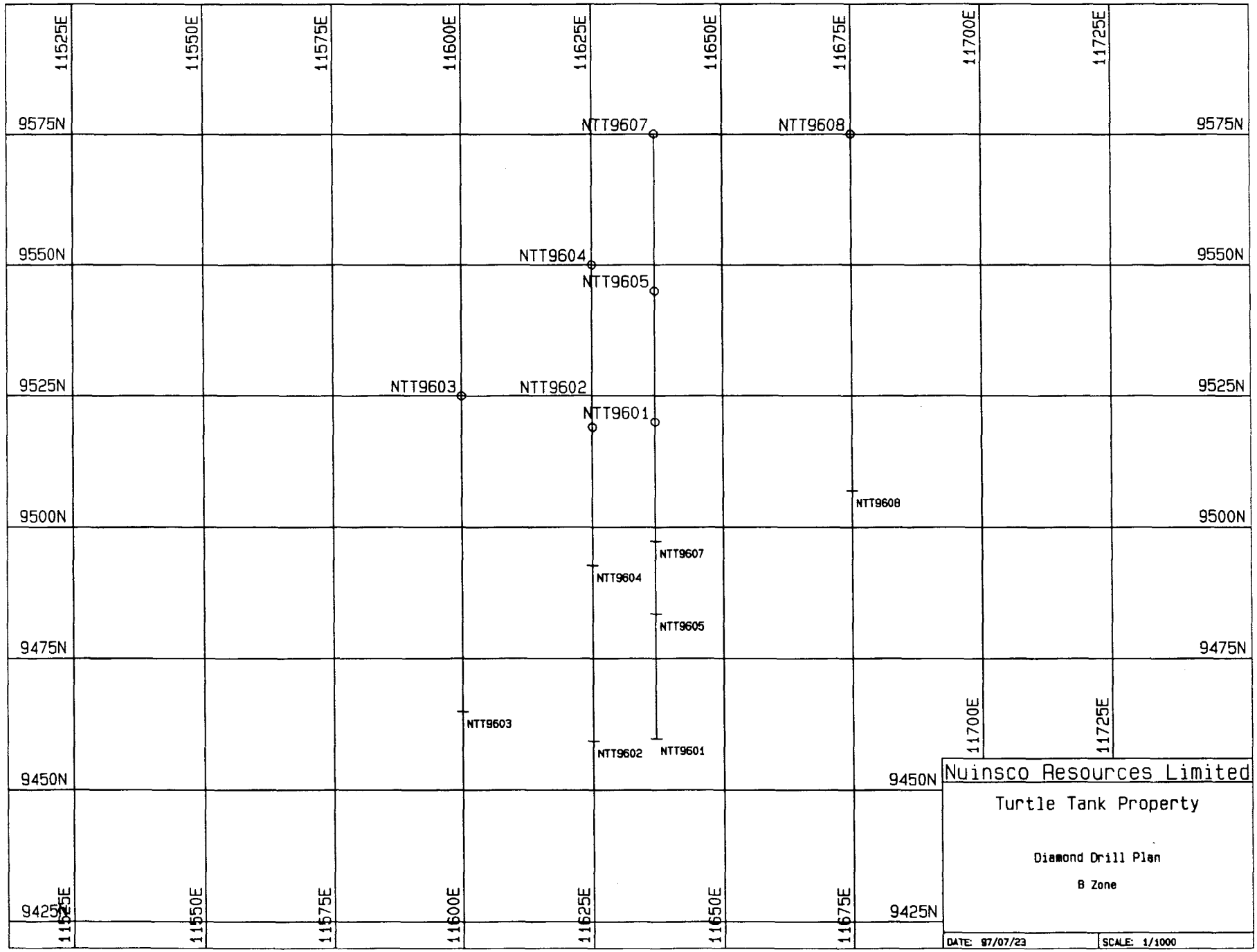
Claim 1050815 - Post #1

Hole No.	South (m)	West (m)
NTT96-01	262	332
NTT96-02	368	345
NTT96-03	358	370
NTT96-04	238	345
NTT96-05	235	332
NTT96-07	208	332
NTT96-08	208	295

TURTLE TANK PROPERTY

ZONE B

SCALE: 1:1000 24/07/97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NTT9604
NTT9605
NTT9603
NTT9602
NTT9601
Nuinsco Resources Limited
Turtle Tank Property
Diamond Drill Plan
B Zone
DATE: 97/07/23
SCALE: 1/1000

In, general the drilling encountered less veining and much less sulphide mineralization than was anticipated. Only a few short intervals returned gold values in excess of 1000 ppb. They are:

Hole No.	Au ppb	Interval	Depth at End of Sample
NTT 96-05	1550	0.46m	14.82m
NTT 96-07	2830	0.06m	35.90m
NTT 96-08	.6%Cu, 900, 11.6g/tAg	0.26m	43.20m
NTT 96-08	2480	0.22m	50.06m
NTT 96-08	1765	0.32m	99.59m

Hole NTT 96-01 included a 0.98m interval averaging 374 ppb Au and 1.19% Cu, from 4.12-5.1m. Rare relatively high copper analyses were also recorded scattered through hole NTT 96-05, ranging from about 0.1% to 0.53% Cu over lengths up to 1.0m, but without associated elevated gold values.

7.22 A Zone Diamond Drilling

The collar location data, final depths and dates drilled for drillholes NTT 96-06, and NTT 96-09 appear below:

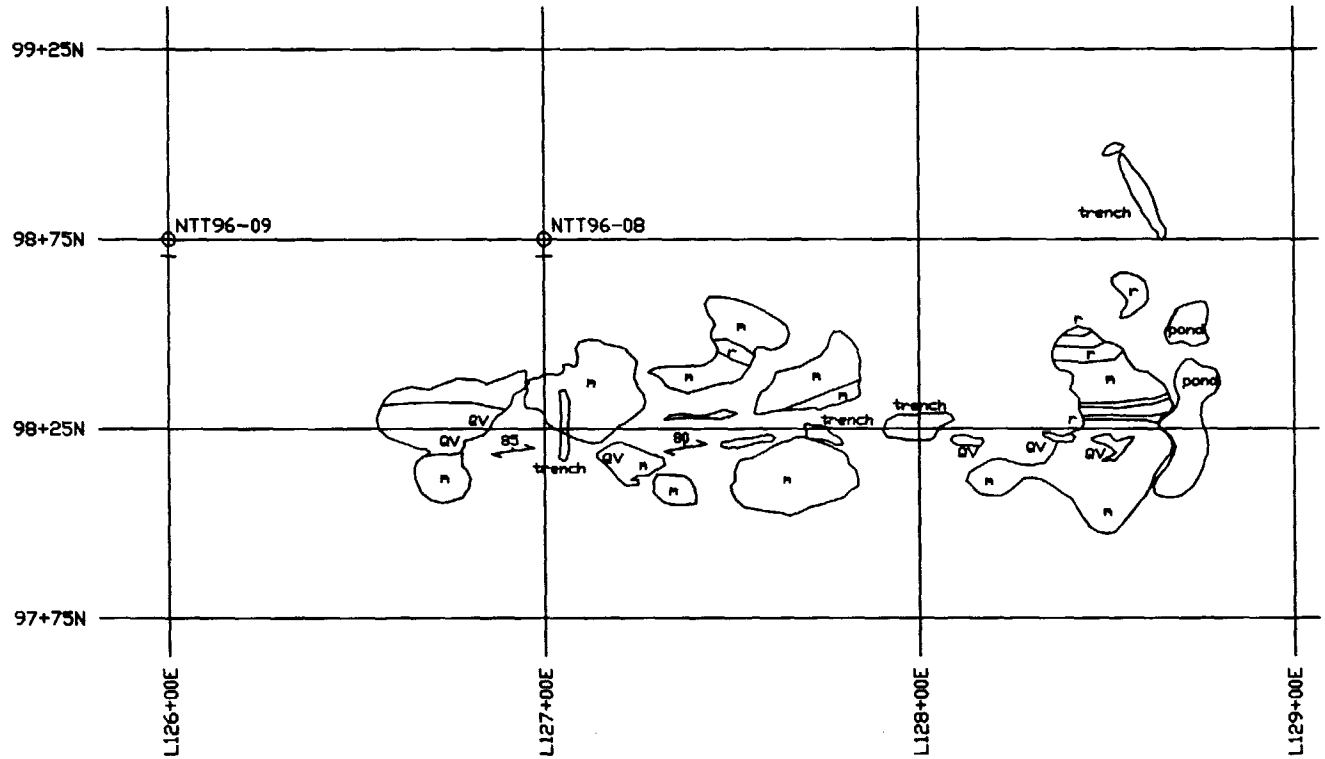
Hole No.	Easting	Northing	Az./Incl	Final Depth	Dates Drilled
NTT9606	127+00E	98+75N	180/-45	95.43m	10/05/96-12/05/96
NTT9609	126+00E	98+75N	180/-50	107.00m	29/07/96-30/07/96

The holes intersected a series of mafic units, ranging from fine grained massive and pillowed flows, to strongly sheared tuffaceous beds, and thin units of grey-white chert. Pervasive silicification and/or iron-carbonate replacement were noted locally over brief intervals within well sheared portions of the holes, as were occasional small veinlets and stringers of quartz or quartz-carbonate.

The initial hole returned weakly anomalous gold and copper values from the start of continuous sampling at 27.94m to 49.74m. Sample lengths ranged from 0.3m to 1.27m across the zone. The weighted average of the intersection is 280 ppb gold and 708 ppm copper over a 21.8m core length. Peak gold analyses of 1500 ppb and 1180 ppb were returned, over intervals of 1.12m and 0.62m respectively. Two prominent spikes in the distribution of copper values, 0.245% and 0.53% were recorded over intervals of 0.89m and 0.84m.

The second hole encountered a similar zone from 48.26m to approximately 66.25m, followed by a 5.68m interval of intermediate to felsic altered rock. The hole was drilled and samples taken during the authors absence. It was not sampled continuously over any sizable interval, and the maximum assay result received to date is a value of 815 ppb Au over a 0.39m core length. Four analyses are pending from the hole: samples 254185 to 254188 which were collected during the logging of the hole by the author during early October.

The drilling demonstrated that a zone of weakly anomalous gold and copper values exists across a true width approximating 10-12m. The drill indicated values, however, are considered too low to justify an extensive programme of further diamond drilling.



Legend

m - mafic volcanics
QV - quartz vein
r - rhyolite

Location of drill holes with respect to claim disposition

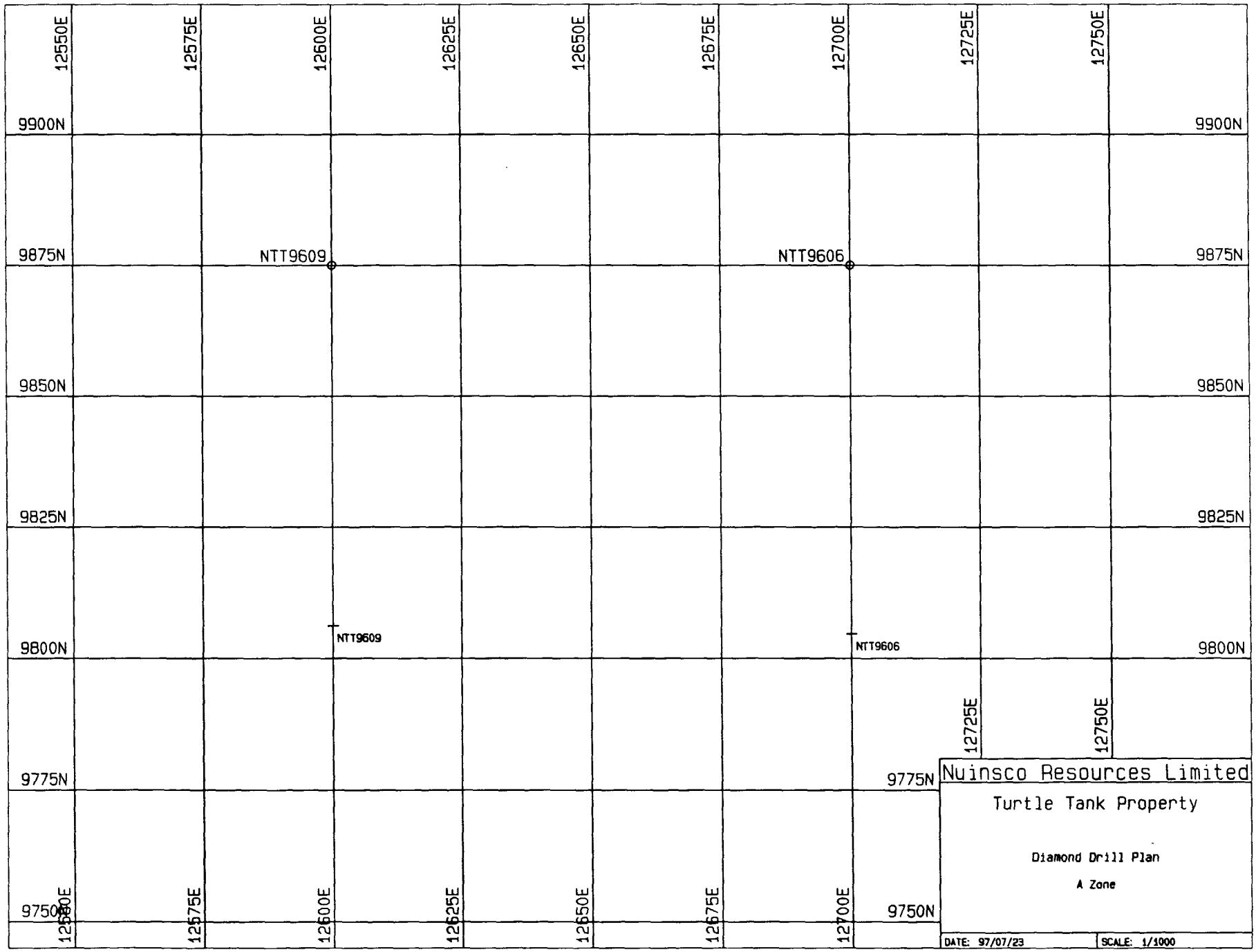
Claim 1050574 - Post #1

Hole No.	South (m)	West (m)
NTT96-06	190	138
NTT96-09	190	238

TURTLE TANK PROPERTY

A ZONE

SCALE: 1:2000 24/07/97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9800N
9775N
9750N
NTT9609
NTT9606
NTT9609
NTT9606
Nuinsco Resources Limited
Turtle Tank Property
Diamond Drill Plan
A Zone
DATE: 97/07/23
SCALE: 1/1000

8.0 INTERPRETATION

At the A Zone, anomalous enrichment of copper and gold exists throughout the strongly sheared and altered core portion of an extensive deformation zone. Rare ore grade gold assays have been reported by previous workers, and confirmed by the present programme, however, regardless of any nugget effect potentially skewing analytical results, the negligible volume of well mineralized rock occurring in the vicinity of the drilling precludes the existence of any substantial economic deposit in the immediate area.

The pocket of gold bearing mineralization exposed by stripping at the B Zone appears to be of limited lateral and vertical extent. The reasonably tightly spaced pattern of drilling is unlikely to have missed any high grade "shoots" or "linear" structures of sufficient dimensions so as to be extractable.

The folded metavolcanic stratigraphy encountered during the drilling was more complex than was anticipated. It may be that poorly exposed, partially preserved "pinched off" fold limbs, and/or an axial plane of folding running oblique to the shearing and foliation orientations, are responsible for the difficulty in correlating contacts from hole to hole with certainty.

The reconnaissance work on the base metals zones hosted by felsic rocks failed to demonstrate continuity of the mineralization, and revealed only very low gold grades. Nonetheless, the character of the alteration and mineralization, and the grades of the principal metals present at each showing are very similar. While this does not necessarily indicate continuity of the mineralization between showings, the observed pattern of alteration, and the distribution of weathered and oxide stained rock along the length of the trend, is suggestive of low grade mineralization much more widespread than simply restricted to the present exposures at historical pits. The lack of appreciable gold values however, limits the attractiveness of this type of mineralization for further exploration.

As well, in almost all places where base metals mineralization was observed, it was confined to stringers, veinlets, and small lenses of quartz. This would appear to indicate that the introduction of the mineralization occurred as a consequence of alteration and the movement of vein forming hydrothermal fluids, either during or after a period of at least minor deformation. And this it would seem, at least to the author, suggests that a post-diagenetic mineralizing event, rather than a synvolcanic exhalitave process was responsible for the deposition of the sulphides. By extension therefore, this particular horizon of felsic metavolcanics is interpreted to more than likely stratigraphically underlie any units on the property which might have high potential for hosting a base metal rich VMS deposit

9.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the drill results at the A and B zones, and surface examination of the known zinc occurrences, there appears to be little potential for the discovery of an economic gold deposit among the areas of the known showings. Consequently, no further work is recommended for the property at present.

Any further work undertaken on the base metals horizon should be limited to blasting fresh exposures along strike from known zones of mineralization, and/or extending existing pits and trenches across strike. Some stripping or backhoe trenching might be worthwhile along strike to the east from the I Zone, on patent K 301, where zinc and lead grades comparable to the C Zone were encountered, in an area which has never been tested by drilling.

Recent discoveries made a short distance to the east of the property by the Cousineau brothers have been brought to the author's attention, and a brief property visit was made on November 9, 1996. The showing(s) lie just outside a 2-claim area of influence around the Turtle Tank property, and may be a westerly extension of the gold bearing "Alice A" structure which was visited and quickly sampled by the author in early June.

As has been noted in places on the northerly portions of the Turtle Tank property, the veins at the new discovery are hosted by sheared and fractured felsic rocks. Veins parallel the trend of foliation, and are often wider and have longer strike lengths than those developed elsewhere within sheared mafic volcanics. Brittle behaviour, and the presence of lead, zinc, and lesser copper sulphides within veins and stringers, are characteristics common to all of the nearby rhyolite-hosted native gold occurrences.

Pending receipt of the analyses of the samples collected during the property visit, and perhaps pending a detailed examination of the area in the Spring, termination of the option agreement should be postponed. Should the new discoveries return multi-ounce assays, or prove to be continuous with the veining at the Alice A gold occurrence, then the northern portion of the property should be re-investigated on foot, traversing the rhyolitic units in detail one by one.

REFERENCES

Wood, J., Dekker, J., Jansen, J.G., Keay, J.P., and Panagapko, D.
1980: Mine Centre Area (Eastern Half), District of Rainy River; Ontario Geological Survey Preliminary Map P. 2201, Geological Series. Scale 1:15 840. Geology 1976, 1977.

INCO Exploration and Technical Services, Unaccredited internal company report (used with permission).
1992: 1991 Annual Report, Cousineau Option, Mine Centre Area, Ontario, NTS 52 C/10, C/15. 8p., 3 Figures, 20 Maps at various scales.

INCO Exploration and Technical Services , Bell, R.C., and Lloyd, T.R., eds.
1993: 1992 Annual Report, Cousineau Option, Mine Centre Area, Ontario, NTS 52 C/10,C/15. 11p., 3 Figures, 18 Maps at various scales.
Assessment Files Research Office, Thunder Bay.

CERTIFICATION

I, Christopher A. Wagg, residing at R.R. #1, in the village of Denbigh, Ontario K0H 1L0, do hereby certify that:

1. I hold a Bachelor of Science Degree in Honours Geology, conferred in May of 1989 at the University of Western Ontario, in London, Ontario, Canada.

2. I have been self-employed as a geological consultant since 1987, and have been practicing my profession continuously since 1989.

3. My Report on the Turtle Tank Property is based upon a review of published and unpublished information concerning the property, as well as previous experience in the Atikokan, Dryden, Mine Centre, and Fort Frances areas totalling about 40 to 48 months of fieldwork and drill projects, and upon personal knowledge of the geology of the property gained over the course of approximately 40 days of fieldwork and core examination.

4. My report on the Turtle Tank Property has been written in every respect as an independent consultant.

5. I presently hold 1 000 shares of Nuinsco Resources Limited within a SDRRSP account, purchased in June of 1996 for their medium to long term appreciation potential, but have no direct interest in the Turtle Tank Property itself, or in any other properties in close proximity.

Dated this 15th of November, 1996, at Emo, Ontario. Christopher A. Wagg, B.Sc.

President, WAGG Mineral Exploration
and Consulting Inc.

Nuinsco Resources Limited
Turtle Tank Property - Cousineau Option
Program Expenditures
1996 Exploration Program

Program Supervision:	P.L.Jones	3,088.43
	C.A.Wagg	6,830.96
	D.M.Engelbrecht	1,009.11
Diamond Drilling	Ultra Mobile Diamond Drilling	54,000.76
Linecutting	D.MacEachern	4,547.50
Geochemistry	473 samples @ $30/sample	14,190.00
Total		83,666.76

Analytical Procedures

All core produced from the Rainy River Project drilling program is processed at the Nuinsco Resources Limited core building in Richardson Township. All core is stored in core-racks at this facility.

Following sample selection and interval marking, samples are collected from the core by means of a hydraulic core splitter or diamond saw.

Samples obtained from the core are forwarded to the Chemex Labratories in Thunder Bay, Ontario. In Thunder Bay the samples go through a two stage crushing; first through a primary jaw crusher producing approximately 1cm fragments followed by a roll crusher or "Rhino" crusher to 2mm size (>60% to -10mesh) The sample is repeatedly passed through a rifle splitter until a represetative 200-250g sample remains, this portion then passes through a ring mill to produce a sample of approximately 100 micron size (>95% to -150 mesh). This material is forwarded by air to the Chemex lab in Mississauga, Ontario, for further preperation and analyses.

At the Chemex Laboratories, Mississauga location, analyses for Au, Ag, Cu, Zn, and Pb, are routinely performed on all metavolcanic rocks. When samples are collected from mafic-ultramafic rocks in the 34 Zone area Ni analysis is routinely added and when sulphide content is sufficiently high to warrent it Pt, Pd and Co are also included in the suite of analyses. Analytical procedures used and detection limits are as outlined below.

Element	Description	Method	Detection Limits
Au ppb	30g (assay ton) HNO_3 -Aqua Regia	FA -AAS	5ppb - 10000ppb
Au g/t	30g (assay ton) HNO_3 -Aqua Regia	FA - gravimetric	0.07g/t - 1000 g/t
Cu ppm	HNO_3 -Aqua Regia	AAS	1ppb - 10, 000ppb
Cu %	Conc. Nitric -HCl Digestion	AAS	0.01% - 100%
Zn ppm	HNO_3 - Aqua Regia	AAS	1ppb - 10, 000ppb
Zn %	Conc. Nitric -HCl Digestion	AAS	0.01% - 100%
Ag ppm	HNO_3 - Aqua Regia	AAS	0.2ppm - 100ppm
Ag g/t	Conc. Nitric -HCl Digestion	AAS	0.3ppm - 350ppm
Pb ppm	HNO_3 - Aqua Regia	AAS	1ppm - 10, 000ppm
Pb %	Conc. Nitric -HCl Digestion	AAS	0.01% - 100%
Ni ppm	HNO_3 - Aqua Regia	AAS	1ppm - 10, 000ppm
Ni %	$HClO_4$ - HNO_3 Digestion	AAS	0.01% - 100%
Co ppm	HNO_3 - Aqua Regia	AAS	1ppm - 10, 000ppm
Co %	$HClO_4$ -HNO_3 Digestion	AAS	0.001% - 100%
Pt ppb	ICP -Fluorescence	FA-ICP-AFS	5ppm - 10, 000ppb
Pt g/t	Part. Cupel. FA+ICP	FA-ICP-Array	0.07g/t - 500 g/t
Pd ppb	ICP -Fluroescence	FA-ICP-AFS	5ppb - 10, 000ppb
Pd g/t	Part. Cupel. FA+ICP	FA-ICP-Array	0.07g/t - 500g/t

9425N | 9450N | 9475N | 9500N | 9525N | 9550N | 9575N

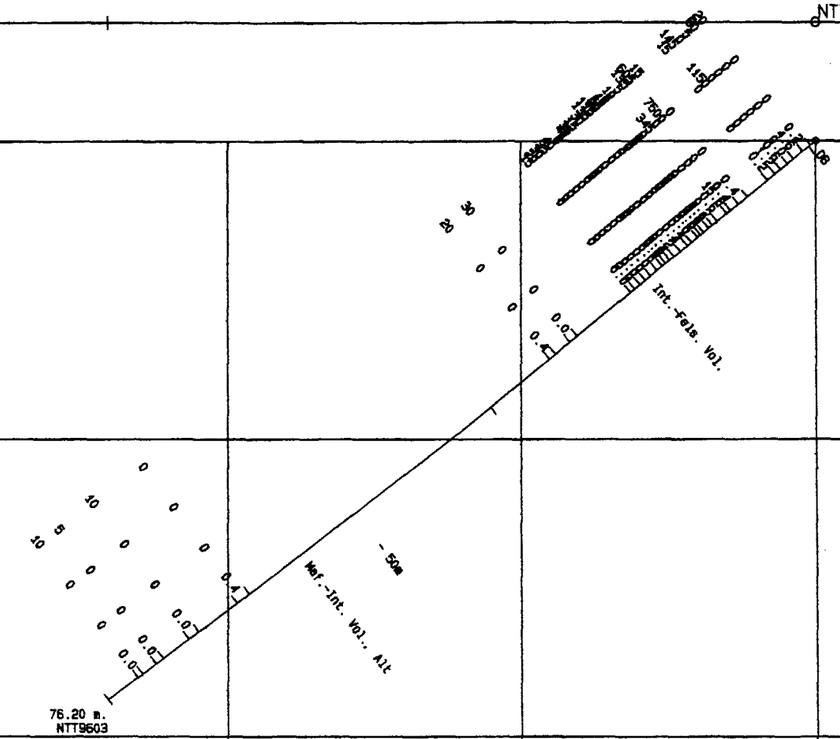
11600E NTT9603 11600E

0

-25

-50

-75



Legend	
amph	amphibole
asp	arsenopyrite
Au	gold
bdd	bedded
bx	breccia
chl-biot	chlorite-biotite
contam	contaminated
cpy	chalcopyrite
def	deformed
fel	felsic
fg	fine grained
fol	foliated
fsp	feldspar
FZ	fault zone
gal	galena
gar	garnet
hem	hematite
int	intermediate
intrus	intrusive
k alt	potassic alteration
kom	komatiite
maf	mafic
mag	magnetite
mg-cg	medium-coarse grained
MUM	mafic-ultramafic
OVB	overburden
porph	porphyritic
poss	possibly
py	pyrite
QCV	quartz-carbonate vein
QFP	quartz-feldspar prophyry
QID	quartz eye dacite
QV	quartz vein
rhy	rhyolite
sap	saprolite
sed	sedimentary
ser	sericite
sil	siliceous
sph	sphalerite
tour	tourmaline
tr	trace
vol	volcanic
xl	crystal

0 5 10 15 20 25m

Nuinsco Resources Limited

Turtle Tank Property

SECTION 11600E

Dip -40, Azimuth 180, Claim 1050815

DATE: 97/07/23 SCALE: 1/500

9425N | 9450N | 9475N | 9500N | 9525N | 9550N | 9575N

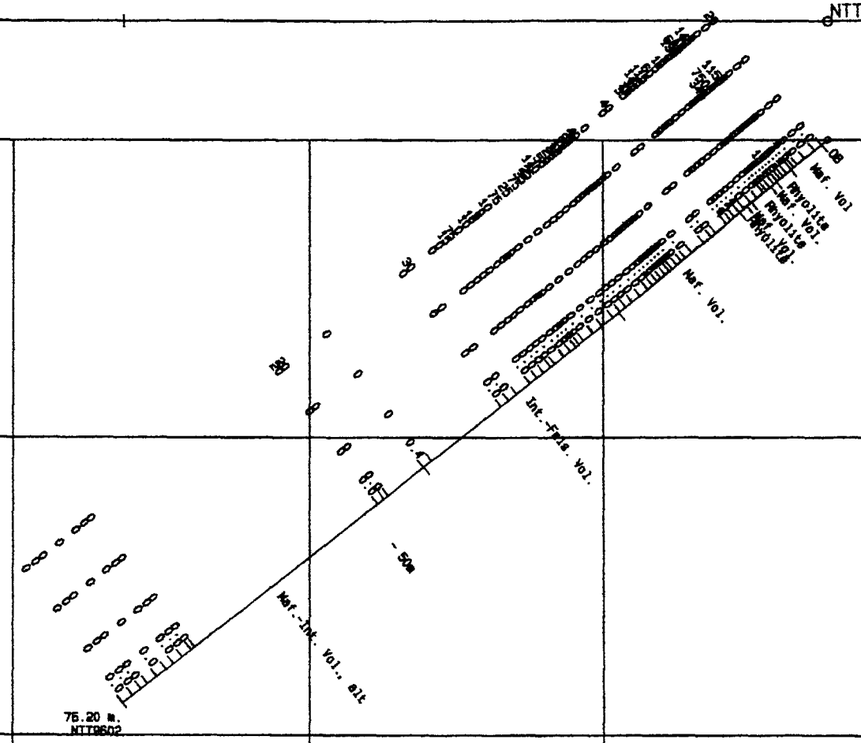
11625E — NTT9602 — 11625E

0 — 0

-25

-50

-75



Legend	
amph	amphibole
asp	arsenopyrite
Au	gold
bdd	bedded
bx	breccia
chl-biot	chlorite-biotite
contam	contaminated
cpy	chalcopyrite
def	deformed
fel	felsic
fg	fine grained
fol	foliated
fsp	feldspar
FZ	fault zone
gal	galena
gar	garnet
hem	hematite
int	intermediate
intrus	intrusive
k alt	potassic alteration
kom	komatiite
maf	mafic
mag	magnetite
mg-cg	medium-coarse grained
MUM	mafic-ultramafic
OVB	overburden
porph	porphyritic
poss	possibly
py	pyrite
QCV	quartz-carbonate vein
QFP	quartz-feldspar prophyry
QID	quartz eye dacite
QV	quartz vein
rhy	rhyolite
sap	saprolite
sed	sedimentary
ser	sericite
sil	siliceous
sph	sphalerite
tour	tourmaline
tr	trace
vol	volcanic
xl	crystal

0 5 10 15 20 25m

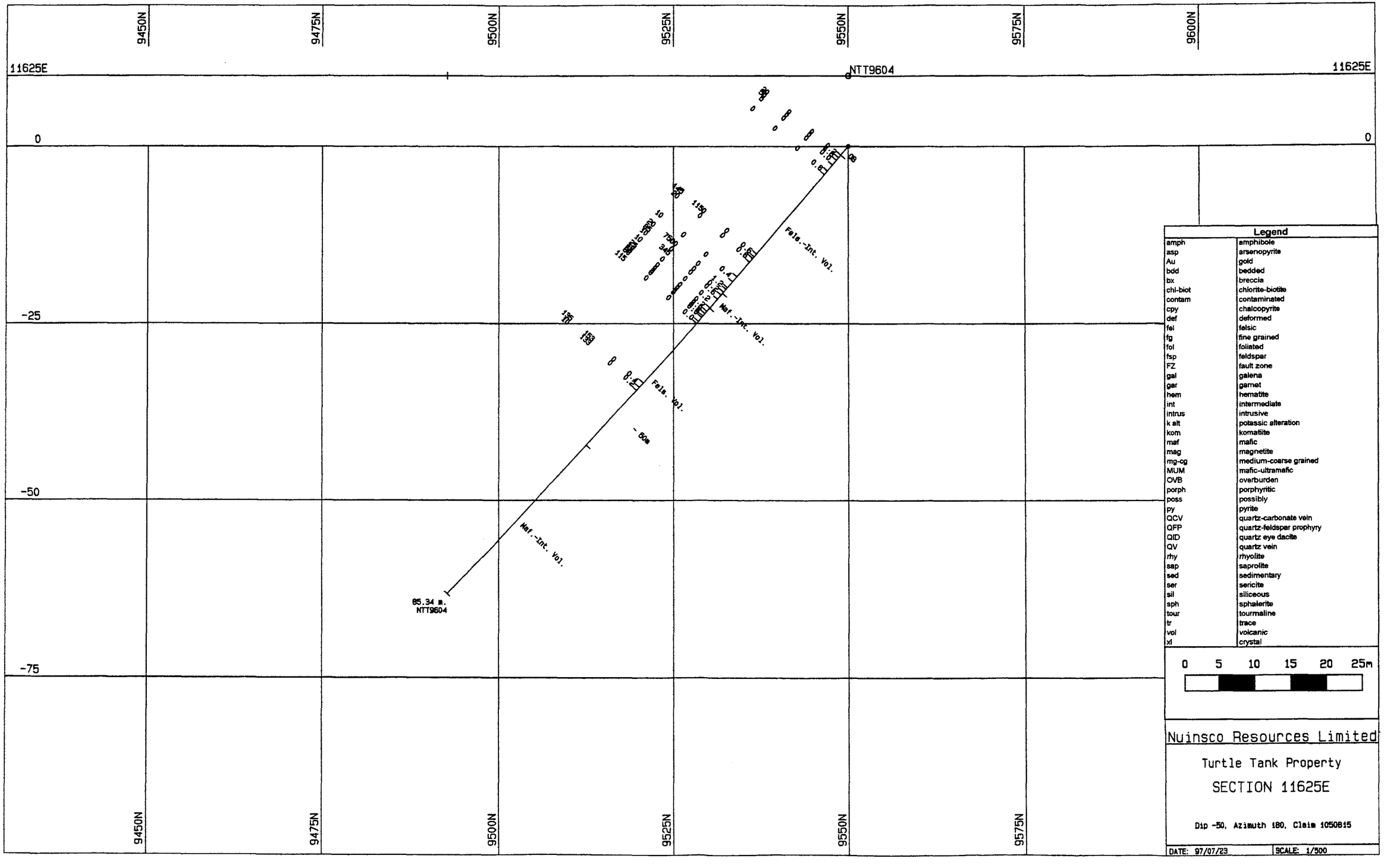
Nuinsco Resources Limited

Turtle Tank Property

SECTION 11625E

Dip -40, Azimuth 180, Claim 1050815

DATE: 97/07/23 | SCALE: 1/500



Legend	
amph	amphibole
asp	arsenopyrite
Au	gold
bdd	bedded
bx	breccia
chl-biot	chlorite-biotite
contam	contaminated
cpy	chalcopyrite
def	deformed
fel	felsic
fg	fine grained
fol	foliated
fsp	feldspar
FZ	fault zone
gal	galena
gar	garnet
hem	hematite
int	intermediate
intrus	intrusive
k alt	potassic alteration
kom	komatiite
maf	mafic
mag	magnetite
mg-cg	medium-coarse grained
MUM	mafic-ultramafic
OVB	overburden
porph	porphyritic
poss	possibly
py	pyrite
QCV	quartz-carbonate vein
QFP	quartz-feldspar prophyry
QID	quartz eye dacite
QV	quartz vein
rhy	rhyolite
sap	saprolite
sed	sedimentary
ser	sericite
sil	siliceous
sph	sphalerite
tour	tourmaline
tr	trace
vol	volcanic
xl	crystal

0 5 10 15 20 25m

Nuinsco Resources Limited

Turtle Tank Property

SECTION 11625E

Dip -50, Azimuth 180, Claim 1050815

DATE: 97/07/23 | SCALE: 1/500

9425N | 9450N | 9475N | 9500N | 9525N | 9550N | 9575N

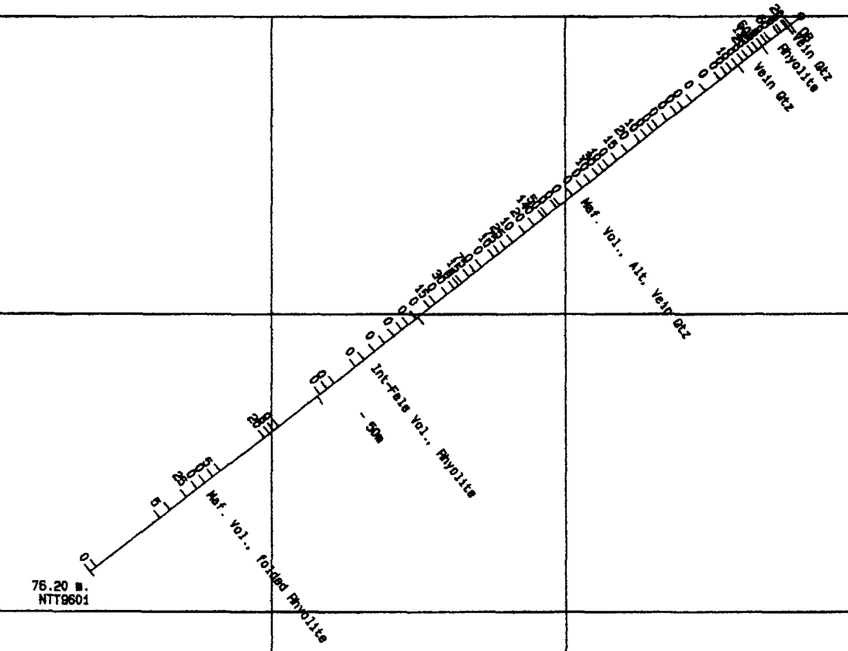
11637E — NTT9601 — 11637E

0 — 0

-25

-50

-75



Legend

amph	amphibole
asp	arsenopyrite
Au	gold
bdd	bedded
bx	breccia
chl-biot	chlorite-biotite
contam	contaminated
cpy	chalcopyrite
def	deformed
fel	felsic
fg	fine grained
fol	foliated
fsp	feldspar
FZ	fault zone
gal	galena
gar	garnet
hem	hematite
int	intermediate
intrus	intrusive
k alt	potassic alteration
kom	komatiite
maf	mafic
mag	magnetite
mg-cg	medium-coarse grained
MUM	mafic-ultramafic
OVB	overburden
porph	porphyritic
poss	possibly
py	pyrite
QCV	quartz-carbonate vein
QFP	quartz-feldspar prophyry
QID	quartz eye dacite
QV	quartz vein
rhy	rhyolite
sap	saprolite
sed	sedimentary
ser	sericite
sil	siliceous
sph	sphalerite
tour	tourmaline
tr	trace
vol	volcanic
xl	crystal

0 5 10 15 20 25m

Nuinsco Resources Limited

Turtle Tank Property

SECTION 11637E

Dip -40, Azimuth 180, Claim 1050815

DATE: 97/07/23 | SCALE: 1/500

9450N | 9475N | 9500N | 9525N | 9550N | 9575N | 9600N

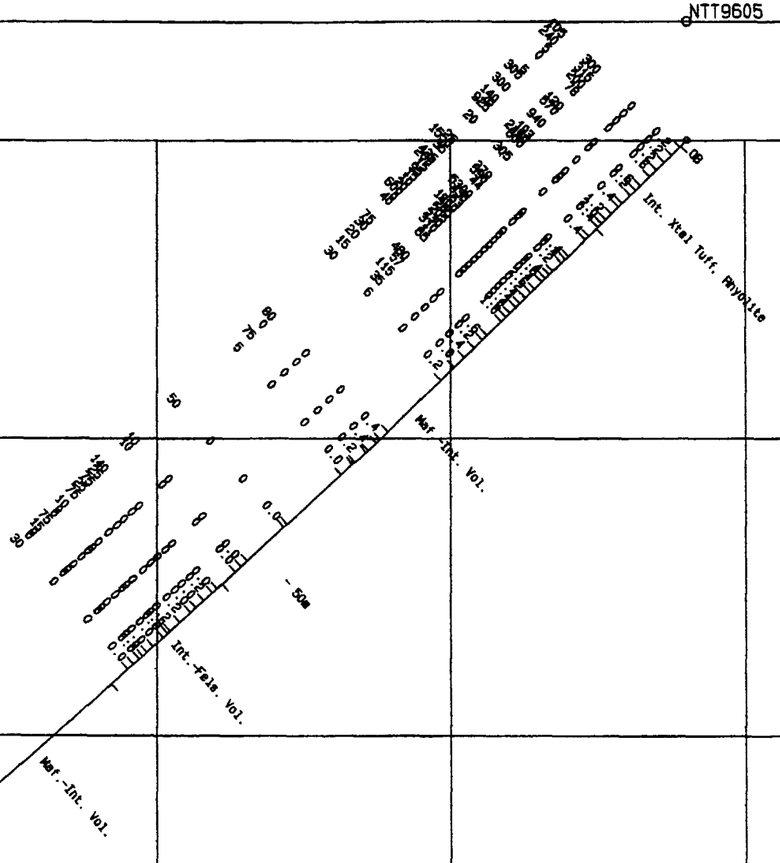
11637E — NTT9605 — 11637E

0 — 0

-25

-50

-75



Legend	
amph	amphibole
asp	arsenopyrite
Au	gold
bdd	bedded
bx	breccia
chl-biot	chlorite-biotite
contam	contaminated
cpy	chalcopyrite
def	deformed
fel	felsic
fg	fine grained
fol	foliated
fsp	feldspar
FZ	fault zone
gal	galena
gar	garnet
hem	hematite
int	intermediate
intrus	intrusive
k alt	potassic alteration
kom	komatiite
maf	mafic
mag	magnetite
mg-cg	medium-coarse grained
MUM	mafic-ultramafic
OVB	overburden
porph	porphyritic
poss	possibly
py	pyrite
QCV	quartz-carbonate vein
QFP	quartz-feldspar prophyry
QID	quartz eye dacite
QV	quartz vein
rhy	rhyolite
sap	saprolite
sed	sedimentary
ser	sericite
sil	siliceous
sph	sphalerite
tour	tourmaline
tr	trace
vol	volcanic
xl	crystal

0 5 10 15 20 25m

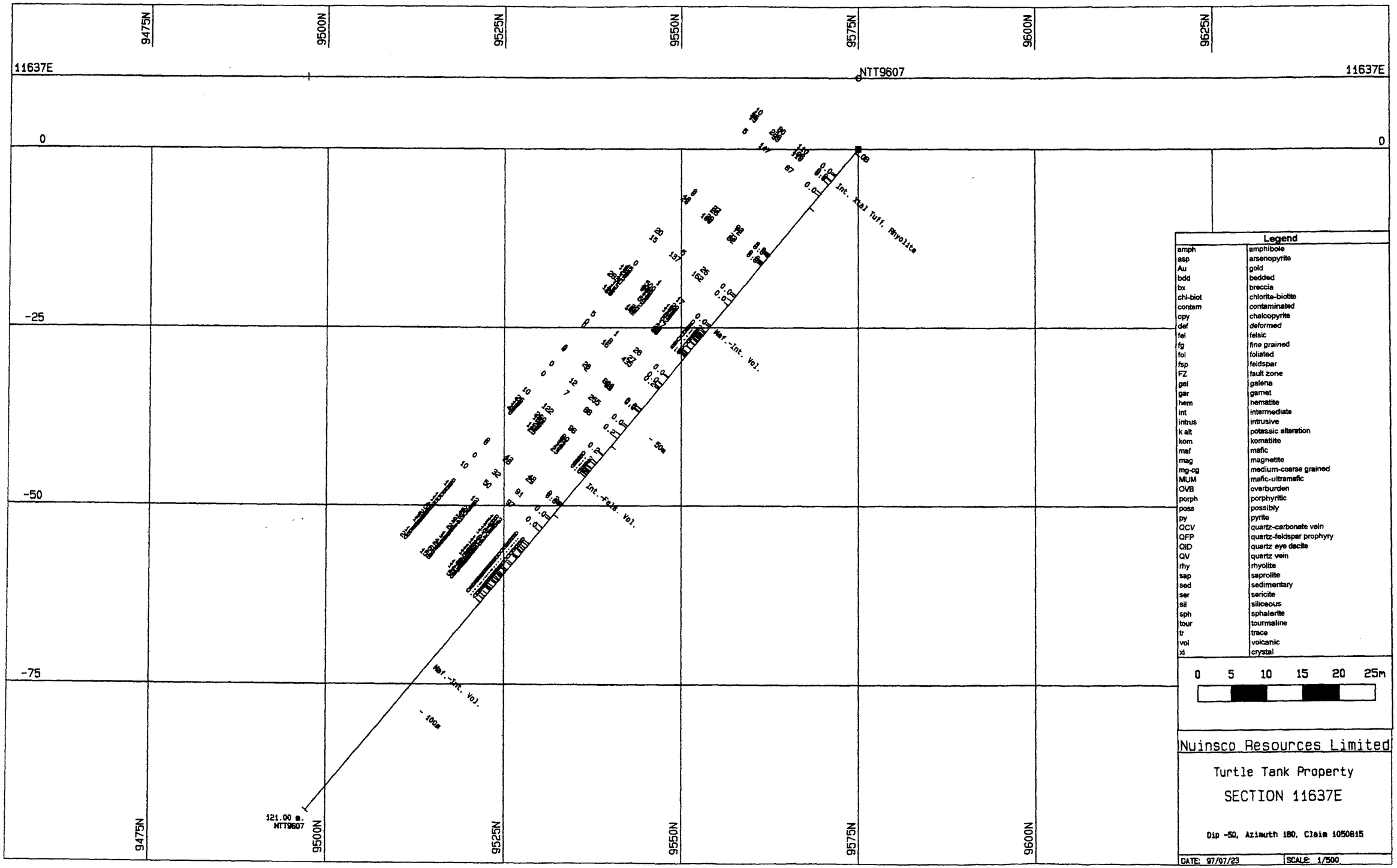
Nuinsco Resources Limited

Turtle Tank Property

SECTION 11637E

Dip -45, Azimuth 180, Claim 1050815

DATE: 97/07/23 | SCALE: 1/500



Legend	
amph	amphibole
asp	arsenopyrite
Au	gold
bdd	bedded
bx	breccia
chl-biot	chlorite-biotite
contam	contaminated
cpy	chalcopyrite
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fel	felsic
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fol	foliated
fsp	feldspar
FZ	fault zone
gal	galena
gar	garnet
hem	hematite
int	intermediate
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maf	mafic
mag	magnetite
mg-cg	medium-coarse grained
MUM	mafic-ultramafic
OVB	overburden
porph	porphyritic
poss	possibly
py	pyrite
QCV	quartz-carbonate vein
QFP	quartz-feldspar prophyry
QID	quartz eye dacite
QV	quartz vein
rhy	rhyolite
sap	saprolite
sed	sedimentary
ser	sericite
sil	siliceous
sph	sphalerite
tour	tourmaline
tr	trace
vol	volcanic
xl	crystal

0 5 10 15 20 25m

Nuinsco Resources Limited

Turtle Tank Property

SECTION 11637E

Dip -50, Azimuth 180, Claim 1050815

DATE: 97/07/23 | SCALE: 1/500

9475N 9500N 9525N 9550N 9575N 9600N 9625N

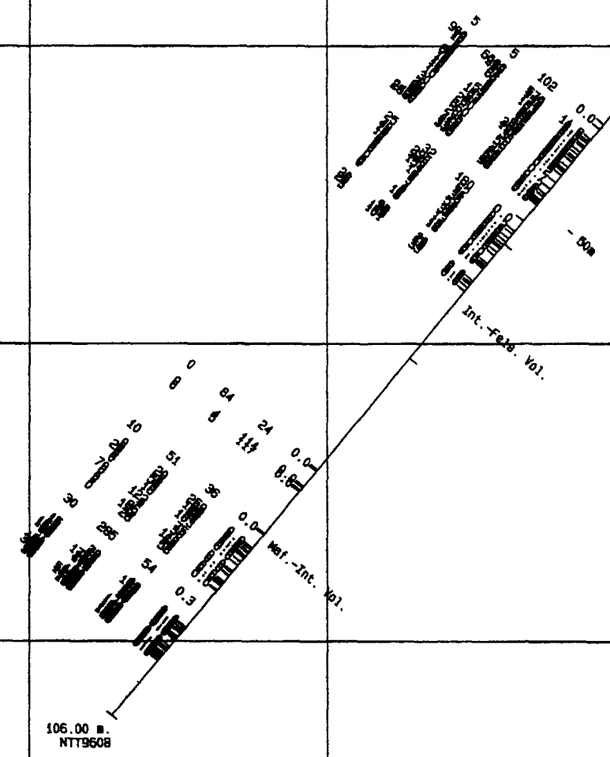
11675E NTT9608 11675E

0 0

-25

-50

-75



Legend

amph	amphibole
asp	arsenopyrite
Au	gold
bdd	bedded
bx	breccia
chl-biot	chlorite-biotite
contam	contaminated
cpy	chalcopyrite
def	deformed
fel	felsic
fg	fine grained
fol	foliated
fsp	feldspar
FZ	fault zone
gal	galena
gar	garnet
hem	hematite
int	intermediate
intrus	intrusive
k alt	potassic alteration
kom	komatiite
maf	mafic
mag	magnetite
mg-cg	medium-coarse grained
MUM	mafic-ultramafic
OVB	overburden
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QFP	quartz-feldspar prophyry
QID	quartz eye dacite
QV	quartz vein
rhy	rhyolite
sap	saprolite
sed	sedimentary
ser	sericite
sil	siliceous
sph	sphalerite
tour	tourmaline
tr	trace
vol	volcanic
xl	crystal

0 5 10 15 20 25m

Nuinsco Resources Limited

Turtle Tank Property

SECTION 11675E

Dip -50, Azimuth 180, Claim 1050815

DATE: 97/07/23 SCALE: 1/500

9775N 9800N 9825N 9850N 9875N 9900N 9925N

12600E NTT9609 12600E

0 0

-25

-50

-75

Mafic Metavolcanics

Sheared Maf. Vol.

107.00 m.
NTT9609

9775N 9800N 9825N 9850N 9875N 9900N

Legend	
amph	amphibole
asp	arsenopyrite
Au	gold
bdd	bedded
bx	breccia
chl-biot	chlorite-biotite
contam	contaminated
cpy	chalcopyrite
def	deformed
fel	felsic
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fsp	feldspar
FZ	fault zone
gal	galena
gar	garnet
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kom	komatiite
maf	mafic
mag	magnetite
mg-cg	medium-coarse grained
MUM	mafic-ultramafic
OVB	overburden
porph	porphyritic
poss	possibly
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QCV	quartz-carbonate vein
QFP	quartz-feldspar prophyry
QID	quartz eye dacite
QV	quartz vein
rhy	rhyolite
sap	saprolite
sed	sedimentary
ser	sericite
sil	siliceous
sph	sphalerite
tour	tourmaline
tr	trace
vol	volcanic
xl	crystal

0 5 10 15 20 25m

Nuinsco Resources Limited

Turtle Tank Property

SECTION 12600E

Dip -50, Azimuth 180, Claim 1050575

DATE: 97/07/23 SCALE: 1/500

9775N | 9800N | 9825N | 9850N | 9875N | 9900N | 9925N

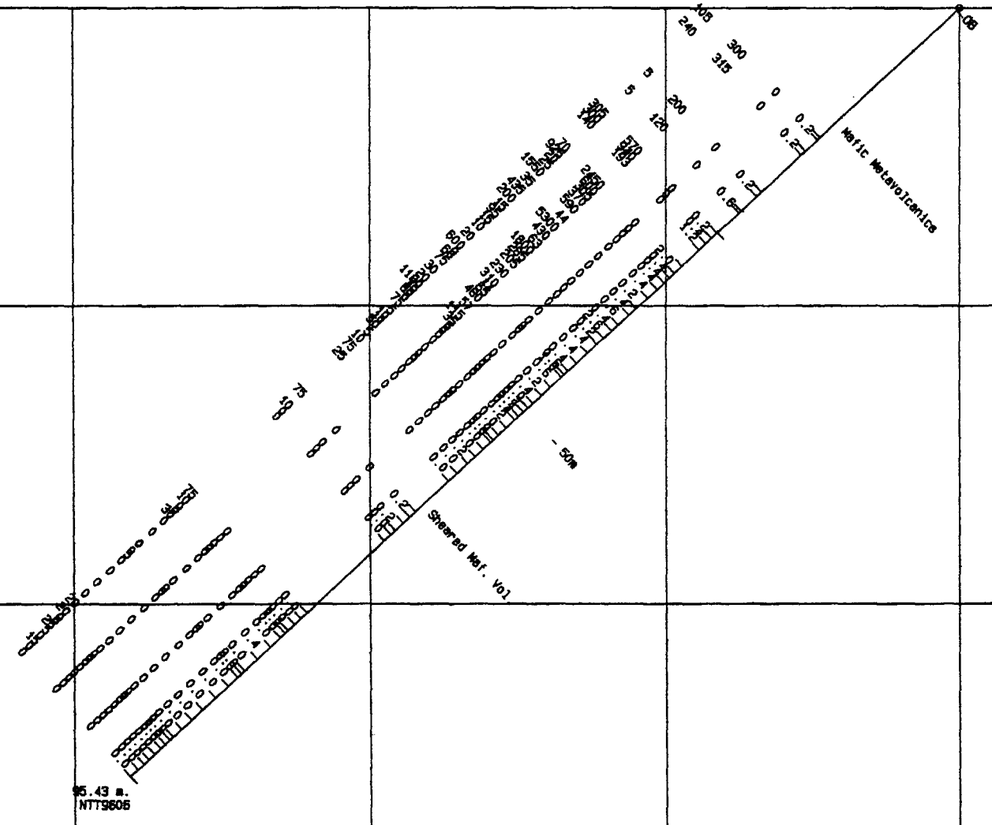
12700E — NTT9606 — 12700E

0

-25

-50

-75



Legend	
amph	amphibole
asp	arsenopyrite
Au	gold
bdd	bedded
bx	breccia
chl-biot	chlorite-biotite
contam	contaminated
cpy	chalcopyrite
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mg-cg	medium-coarse grained
MUM	mafic-ultramafic
OVB	overburden
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poss	possibly
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QCV	quartz-carbonate vein
QFP	quartz-feldspar prophyry
QID	quartz eye dacite
QV	quartz vein
rhy	rhyolite
sap	saprolite
sed	sedimentary
ser	sericite
sil	siliceous
sph	sphalerite
tour	tourmaline
tr	trace
vol	volcanic
xl	crystal

0 5 10 15 20 25m

Nuinsco Resources Limited

Turtle Tank Property

SECTION 12700E

Dip -45, Azimuth 180, Claim 1050574

DATE: 97/07/23 | SCALE: 1/500

2.17320

Nuinsco Resources Limited

DIAMOND DRILL LOG

By conversation with R.C. GASHINSKI JULY 24/97 ADVISED THAT C.A. WAGG WAS NOT LONGER WITH COMPANY BUT THE PROJECT WAS SUPERVISED BY G.F. Archibald P.GeO V.P. Explr

PROPERTY: Turtle Tank
HOLE No.: NTT9601
Collar Eastings: 11637.00
Collar Northings: 9520.00
Collar Elevation: 0.00
Grid:
Stored at Nuinsco Resources core shack located

Collar Inclination: -40.00
Grid Bearing: 180.00
Final Depth: 76.20 metres
Ultra Mobile Diamond Drilling Ltd.
in Richardson Township - Lot 6 Conc. III

Logged by: C.A. Wagg
Date: 14/05/96
Down-hole Survey: Acid Test
BQ Core, Claim Number 1050815

NUINSCO RES

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
0	1.2	OVERBURDEN (OVB) -											
1.2	1.45	VEIN QTZ (Vein Qtz) - N diameter core from casing. Four pieces, aggregate length 25cm. Includes 1-2% sheared inclusions of rhyolite wallrock. . ALTERATION: Contains approximately 5% deeply weathered Fe-carbonate, as fine to coarse crystals and along fractures. 1-2% muscovite/sericite tr Py. . STRUCTURE: Lower contact broken. . COMMENTS: Entire N diameter qtz intersection submitted for analysis. N diameter rhyolite submitted for Au+WRA. Identical to top 10-20cm of B diameter rhyolite.	1.20	1.45	0.25	20	NIL	NIL	NIL	NIL	NIL	NIL	NIL
1.45	4.15	RHYOLITE (Rhyolite) - very pale grey-green to beige. Aphanitic to very fine grained. Weakly sericitized, with locally abundant hairline fracturing/weak brecciation. Millimetre wide qtz and/or partially weathered Fe-carbonate fillings reseal fractures. Fillings range from foliation parallel	1.45	1.60	0.15	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
			1.60	2.14	0.54	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
			2.14	2.40	0.26	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
			2.40	3.28	0.88	60	NIL	NIL	0.8	NIL	NIL	NIL	NIL
			3.28	3.65	0.37	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

G.F. ARCHIBALD CONFIRMS THAT THE FOLLOWING HOLES WERE DRILLED AND THAT THESE ARE REPRESENTIVE LOGS

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS									
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		to crosscutting and from planar to ptygmatically folded. Interval includes two qtz veins of 24 and 20cm core lengths at 2.05 and 3.68m respectively, but only a few cm wide qtz-Fe-carbonate stringers.	3.65	4.12	0.47	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		.											
		ALTERATION: Weak Fe-carbonate alteration adjacent to many, but not all hairline fractures. Traces of Py and Cp appear to be restricted to fractures, rather than disseminated within the unit.											
		Veins contain: 7-8% fine fracture filling Fe carbonate, with minor fine to coarse creamy white, crystalline. Fe-carbonate intergrown with qtz. 2-3% fine muscovite/sericite also largely along fractures, as well as tr Py.											
		.											
		STRUCTURE: Well foliated at 60-65 to CA, rarely to 70. Lower contact coincident with broad zone of veining described below. Last rhyolite wallrock inclusion at 6.3-6.35. Actual vein-mafic contact within zone of broken core. Vein at 3.68 has a crosscutting upper contact, somewhat folded, averaging 50 to CA.											
		.											
		COMMENTS: Vein developed along rhyolite-mafic contact, apparently primarily within rhyolite at this point.											
4.15	6.75	VEIN QTZ (Vein Qtz) - with 3-4% small, well altered rhyolite	4.12	4.62	0.50	605	7500	NIL	9.8	NIL	NIL	NIL	NIL
		inclusions. Vein is white to red, generally fine grained,	4.62	5.10	0.48	135	0	NIL	15.8	NIL	NIL	NIL	NIL
		but well fractured. Inclusions are typically 1-10cm in length,	5.10	5.70	0.60	20	345	NIL	0.6	NIL	NIL	NIL	NIL

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS									
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		strongly sericitized, some with minor chlorite, and well foliated conformable with foliation in the country rock.	5.70	6.20	0.50	NIL	NIL	NIL	0.2	NIL	NIL	NIL	NIL
		. ALTERATION: 3-5% fine to coarse creamy white Fe-carbonate siderite, partially oxidized in places. 1% med.-coarse grained red-brown Fe-carb. ankerite-intergrown with siderite and minor chlorite, adjacent to inclusions at 4.25 and 5.50. 1% muscovite, along late fractures. Tr Py primarily in and around inclusions from 4.45-5.15. 1-2% Cp, 1% Py, 1-2% Ag-sulphide?-possibly chalcocite as disseminations and mm to cm wide seams intergrown with partially weathered siderite along several fractures. 1-2% native Ag? over 5cm at 5.1m. . COMMENTS: Sulphide textures suggest open space filling along open fractures Ag? before Cp. Re unidentified mineral which rims, Cp. Hematite is present in places along the fracture. This mineral however appears non crystalline, similar to Cp, and is brittle to splintery with a shiny grey, blackish streak.										
6.75	41.20	ALTERED MAFIC METAVOLCANICS	6.20	6.80	0.60	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		(Altered Mafic Metavolcanics) - light to med. green. Fine	6.80	7.40	0.60	10	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		grained and well foliated. Cut by 3-5% white to pinkish qtz	7.40	7.98	0.58	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		and Fe-carbonate stringers usually <2cm wide -veins >10cm	7.98	8.68	0.70	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		in width mentioned separately. Strongly Fe-carb. altered, so	8.68	10.24	1.56	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		that present composition is 40%, very fine Fe-carb.	10.24	11.71	1.47	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		crystals. Remainder 10-30% dark green acicular amphibole	11.71	12.64	0.93	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

FROM	TO	LITHOLOGICAL DESCRIPTION	FROM	TO	WIDTH	ASSAYS Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		porphyroblasts generally <3mm in length. Groundmass is	12.64	13.35	0.71	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		very fine mixture of amphibole-chlorite-qtz.	13.35	14.33	0.98	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		Core broken and carbonates oxidized at contact with vein.	14.33	15.27	0.94	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		Probable mafic inclusion at 6.60m.	15.27	15.82	0.55	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		.	15.82	16.54	0.72	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		ALTERATION: Negligible additional alteration of wallrock	16.54	17.24	0.70	10	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		next to cm scale stringers. Weak bleaching over a few cm	17.24	18.62	1.38	20	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		adjacent to larger veins. Trace to <1% Py occurs along foliation	18.62	19.75	1.13	15	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		parallel to subconcordant fractures with mm wide fillings of	19.75	20.65	0.90	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		qtz-carb.-Chl. Py also occasionally present at levels	20.65	21.17	0.52	10	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		of 1-2% over 10-30cm intervals as med. sized disseminated	21.17	21.82	0.65	30	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		aggregates, eg. 13.70-14.0.	21.82	22.68	0.86	10	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		.	22.68	23.54	0.86	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		STRUCTURE: Strongly foliated at 65 to CA, rarely to 60.	23.54	24.56	1.02	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		Most stringers subconcordant. Crosscutting stringers are	24.56	25.96	1.40	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		largely contorted to some degree.	25.96	26.24	0.28	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		.	26.24	27.29	1.05	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		COMMENTS: Although mafic unit is obviously altered,	27.29	27.62	0.33	50	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		and riddled with often contorted fracture filling stringers, it	27.62	28.67	1.05	140	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		appears merely well foliated as opposed to sheared/intensely	28.67	29.69	1.02	20	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		deformed. Numerous annealed fractures may be interpreted	29.69	30.99	1.30	10	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		however, from common mm to cm scale offsets of narrow	30.99	31.74	0.75	25	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		stringers.	31.74	32.45	0.71	75	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		.	32.45	33.00	0.55	10	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		7.38 to 7.49: Foliation parallel to subconcordant qtz +Fe-carb.	33.00	34.40	1.40	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		vein.	34.40	35.06	0.66	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		.	35.06	35.73	0.67	75	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		ALTERATION: Tr Py, tourmaline.	35.73	36.53	0.80	15	NIL	NIL	NIL	NIL	NIL	NIL	NIL

FROM	TO	LITHOLOGICAL DESCRIPTION
		.
		11.85 to 12.00: Subconcordant qtz-Fe-carb. vein.
		.
		ALTERATION: Tr Py, Cp, tourmaline. Sheared wallrock
		inclusion weakly chloritized.
		.
		11.0 to 12.66: Medium grained interval resembling an
		amphibolitized gabbro.
		.
		ALTERATION: Tr-1% Py, disseminated.
		.
		12.66 to 13.07: Apparently fragmental interval. <1 to 5cm thick
		lapilli? separated by a network of 1-5mm thick Chl and Fe-carb.
		laminae. Fabric possibly from anastomosing brittle shear.
		.
		ALTERATION: Tr-1% Py, concentrated within matrix.
		.
		STRUCTURE: Foliation 60 to CA.
		.
		13.07 to 13.13: Fine grained, dark green. <30% Fe-carb. crystals.
		Probably a fine crystal tuff.
		.
		ALTERATION: Tr Py.
		.
		STRUCTURE: Foliation 65 to CA.
		.
		14.95 to 16.35: Zone of strong deformation, alteration and qtz+
		Fe-carb. stringer development. Bleached and chloritized to a

ASSAYS

FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
36.53	36.86	0.33	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
36.86	37.32	0.46	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
37.32	38.10	0.78	30	NIL	NIL	NIL	NIL	NIL	NIL	NIL
38.10	39.30	1.20	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
39.30	39.90	0.60	15	NIL	NIL	NIL	NIL	NIL	NIL	NIL

FROM	TO	LITHOLOGICAL DESCRIPTION	FROM	TO	WIDTH	ASSAYS Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		greater degree than the unit in general. Elevated qtz +Fe-carb. as 7-8% fracture filling stringers and veinlets above 17.70m. . ALTERATION: Approximately 10% <6mm wide foliation parallel Fe-carb. +/- qtz stringers. Approximately 7-8% crosscutting 1-2cm wide qtz-Fe-carb. +/- chlorite veinlets with tr Py, Cp. Veinlets are folded, two have "T" to "Y" like bifurcations at 15.65 and 15.9m. Tr-1% Py. . STRUCTURE: Shearing 50-55 to CA. . 20.38 to 20.57: Concordant qtz vein. . ALTERATION: 5-10% siderite, 1-2% fine tourmaline along fractures tr muscovite. . STRUCTURE: Foliation 65 to CA. . 22.66 to 23.46: Bleached section similar to interval from 14.95-16.35, but without the elevated stringer and veinlet content. . ALTERATION: Strong pervasive Fe-carb. alteration. Amphiboles pseudomorphed by chlorite. . STRUCTURE: Foliation 65 to CA. . Below 23.50: Unit becomes reasonably uniformly fine grained and stringers under 1cm in width become rare.											

FROM	TO	LITHOLOGICAL DESCRIPTION	FROM	TO	WIDTH	ASSAYS Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		.											
		ALTERATION: 2-3% qtz stringers 1-3cm wide, primarily crosscutting. Some have bleached haloes for 10cm total width, containing 10% disseminated Py.											
		.											
		STRUCTURE: Foliation 65-75 to CA.											
		.											
		26.27 to 26.35: Crosscutting 5cm wide qtz vein.											
		.											
		ALTERATION: Tr Py. 2-3% siderite, 3-4% fine tourmaline along contact parallel "crack and seal" fractures.											
		.											
		STRUCTURE: Contacts approximately 30 to CA.											
		.											
		COMMENTS: Somewhat similar vein zoning observed in 2cm wide foliation parallel veinlet at 24.85. From contact inward; Fe-carb., qtz. with Fe-carb., qtz with tourmaline on fractures at centre.											
		.											
		26.5: 15cm wide breccia-like zone of interconnected cm-wide stringers with intensely Fe-carbonatized wallrock over 15-20cm.											
		.											
		ALTERATION: 2-3% disseminated Py.											
		.											
		STRUCTURE: Zone appears to be subconcordant -oblique to foliation.											
		.											
		32.52 to 32.92: Mafic ash tuff or mafic derived interflow sediment.											

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		Appears weakly sheared.											
		.											
		ALTERATION: Strongly chloritized, with 40-50% Fe-carb. and qtz stringers paralleling foliation. 1% disseminated Py.											
		.											
		STRUCTURE: Foliation 65 to CA.											
		.											
		35.25 to 35.45: Strong bleaching and Py adjacent to irregular walled 5-10cm wide qtz stringer.											
		.											
		ALTERATION: 3-4% disseminated med. grained Py over interval from wallrock.											
		.											
		36.50 to 37.20: Vein qtz.											
		.											
		ALTERATION: 8-10% siderite, <1% sericite, <1% tourmaline, tr Py, hematite, chlorite.											
		.											
		STRUCTURE: Foliation 70 to CA at upper contact, 60 to CA at lower contact.											
		.											
		39.20 to 39.95: 10-12% qtz from four veinlets each <5cm wide.											
		.											
		ALTERATION: 1-2% Py, from wallrock, trace hematite within a stringer.											
		.											
		40.80 to 41.20: Interval intermediate composition of paler grey progressing downhole. Amygdaloidal in places.											

FROM	TO	LITHOLOGICAL DESCRIPTION	FROM	TO	WIDTH	ASSAYS Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		.											
		ALTERATION: 1-2% med. grained disseminated Py. Intermediate volcanics strongly sericitized for lowermost 5-10cm adjacent to rhyolite. Amygdules lined with chlorite, filled with calcite up to 2mm in diameter.											
41.20	52.08	INTERMEDIATE TO FELSIC METAVOLCANICS	39.90	41.40	1.50	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		RHYOLITE DOMINATED (Int. to Fels. Metavol. Rhyolite Dom.) -	41.45	42.27	0.82	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		fine ash tuff, fine to coarse crystal tuff, amygdaloidal flow.	42.94	43.84	0.90	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		Pale pinkish beige to medium grey package of thin, predominantly	44.82	45.92	1.10	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		felsic, individual units.	47.06	48.00	0.94	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		.	50.29	51.06	0.77	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		ALTERATION: Relatively strong Fe-carb. alteration throughout	51.06	51.82	0.76	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		all members of the sequence, except extrusive? qtz-feldspar porphyry. Imparts a pinkish hue to rhyolite and fills amygdules within rhyodacites. 1-2% qtz and Fe-carb. stringers from 49.10-49.70, and 51.10-51.85, most <1cm wide and subparallel to foliation. Tr-1% Py throughout interval, generally highest within fine dark coloured dacitic members.											
		.											
		STRUCTURE: Uppermost contact slightly irregular -wavy to undulatory 75 to CA, crosscutting foliation. Foliation 65-70 to CA at contact.											
		.											
		41.20 to 42.22: Rhyolite, fine grained to aphanitic, well foliated at 70-80 to CA. 1% mm wide qtz fillings along hairline fractures most subparallel to foliation. 2-3% Py over 20cm at lower contact.											

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS								
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		.											
		42.22 to 43.10: Amygdaloidal? rhyodacite. Pale grey, qtz-Fsp rich very fine groundmass, with 10-15% <2m chlorite +/- amphibole lined amygdules? filled with Fe-carb.											
		.											
		STRUCTURE: Rhyolite -rhyodacite contact slightly folded. Averages 60 to CA -45 off from foliation at 70 to CA. Foliation at 43m, 70 to CA.											
		.											
		COMMENTS: Probably close to a fold nose, closing to the west -downhole.											
		.											
		43.10 to 43.83: Rhyolite. Similar to interval from 41.20-42.22.											
		.											
		STRUCTURE: Top contact with rhyodacite foliation parallel at 70 to CA. Lower contact possibly low angle -less than 30 degrees offset and transposed by fracturing to largely foliation parallel.											
		.											
		43.83 to 44.71: Rhyodacite. Similar to interval from 42.22-43.10 but quite fine grained and lacking amygdules below 44.5. Fine dacitic crystal tuff. Apparently two discrete flows both fining/ graded downward to 2cm of ash? material resembling rhyolite.											
		.											
		44.71 to 45.63: Rhyolite. Pinkish from Fe-carbonate weathering for top 40cm.											
		.											
		ALTERATION: Strongly fractured to shattered below 45.1m, with											

FROM	TO	LITHOLOGICAL DESCRIPTION	FROM	TO	WIDTH	ASSAYS Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		3-4% mm-wide qtz +/- Py fillings. 1-3% fine disseminated Py over 50cm.											
		.											
		STRUCTURE: Internal contacts between 44.5 and 45.8m are foliation parallel. Foliation 70 to CA above 45.8, 60-65 to CA at 45.8 and below.											
		.											
		45.63 to 46.37: Rhyodacite crystal tuff. 10-15% fine clustered Chl +/- amphibole. Similar to interval from 44.5 to 44.71, but without grading.											
		.											
		ALTERATION: Weak Fe-carb. alteration.											
		.											
		STRUCTURE: Contact rhyolite to rhyodacite at 45.63 is foliation parallel at 65 to CA.											
		.											
		46.37 to 47.06: Feldspar porphyry flow? 60-70% fine-med. grained, white to pale grey subhedral feldspar. Trace qtz eyes to 2mm. 10-15% very fine amphibole +/- chlorite. Remainder pale grey groundmass.											
		.											
		ALTERATION: Tr-1% very fine disseminated Py.											
		.											
		STRUCTURE :Weak chilling at both contacts, both crosscut foliation. Top 50 to CA, bottom 50 to CA.											
		.											
		COMMENTS: Includes a "wedge" of rhyodacite at 46.5m over a maximum core length of 9cm on one side, minimum of 4cm											

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		on the other side of core. Rhyodacite wedge top 40 to CA, bottom foliation parallel at 65 to CA. Foliation variable from 70 to CA to 60 to CA, at bottom of interval. Appears to indicate complex asymmetric -tight? folding, rather than an intrusive origin for Fsp porphyry.											
		.											
		47.06 to 47.47: Fine dacitic crystal tuff. Similar to rhyodacite intervals but approaching light grey green in colour. Trace qtz eyes to 2mm, and up to 30% fine mafic silicates in places.											
		.											
		ALTERATION: 4-5% fine-med. grained disseminated Py.											
		.											
		STRUCTURE: Contact at 44.7, foliation parallel at 75-80 to CA.											
		.											
		44.47 to 44.87: Rhyolite. Similar to previous rhyolite intervals but only weak carbonate alteration, 1% disseminated Py and no significant fracturing.											
		.											
		44.87-54.3: Fine intermediate to felsic crystal ash tuff. May include thin mafic-intermediate amygdaloidal flows at around 50.70m. Well bedded in places, with foliation crosscutting folded bedding particularly prominent from 50.2-52.10.											
		.											
		54.3-54.55: Mafic metavolcanics with minor infolded? rhyolite. Fine-med.grained. Dark green. Spotted with 15-35% fine crystals of Fe-carbonate. Primarily fine crystal and ash tuffs, likely including some thin massive flows and minor lapilli tuff.											

FROM	TO	LITHOLOGICAL DESCRIPTION	FROM	TO	WIDTH	ASSAYS Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		.											
		ALTERATION: Strongly chloritized and Fe-carbonatized throughout.											
		Tr-1% Py on average.											
		.											
		STRUCTURE: Top contact foliation parallel at 65 to CA.											
		.											
		ALTERATION: 4-5% fine-med. euhedral											
		disseminated Py. Either in small calcite filled amygdules,											
		or with calcite commonly present in pressure shadows of Py.											
		.											
		STRUCTURE: Well foliated at 70-75 to CA above 55m.											
		.											
		55.15 to 55.50: Pinkish rhyolite. Similar to previous rhyolite											
		intervals, but spotted with fine carbonate similar to adjacent											
		mafic volcanics. Banding and non-parallel contacts both											
		crosscut foliation.											
		.											
		ALTERATION: Enclosing volcanics metasomatically altered to											
		rhyolitic appearance for several cm adjacent to contact.											
		.											
		STRUCTURE: Contact at 55.15m, 45 to CA. Contact											
		at 55.5m at 70-75 to CA.											
		.											
		56.77 to 57.70: Contorted folding, 5% vein qtz-most from around											
		57.30m, minor shearing and contorted beds of chert from											
		57.40-57.60.											
		.											
		ALTERATION: 56.40, 3-4% very fine to medium grained											

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		disseminated Py. Strongly Fe-carbonate altered. . STRUCTURE: Foliation at 57.7, 60-65 to CA. Bedding/ chert -mafic contact approximately 45 to CA. . Broken to contorted blue-grey chert beds present from 62.65-62.70, 62.95-63.20, 63.87-64.50, with chert fragments present between 65.50 and 65.90. . ALTERATION: 1-2% Py within broken, contorted intervals. . STRUCTURE: Foliation 70-75 to CA, bedding foliation parallel? at this point. . COMMENTS: Volcanics well foliated but do not appear folded. . 67.78 to 68.8: Rhyolite, pinkish. Similar to previous intervals but possibly fragmental below 68.48. . ALTERATION: Tr-1% Py, strong pervasive Fe-carb. alteration. . STRUCTURE: Foliation at 67m, 65 to CA. Bedding contorted, 80-90 to CA. . 70.9 to 71.22: Possibly a fragmental interval with 2mm to 1cm thick strongly flattened lapilli. Alternatively, possibly a weak anastomosing shear.											

FROM	TO	LITHOLOGICAL DESCRIPTION	FROM	TO	WIDTH	ASSAYS Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		.											
		ALTERATION: Below 68.8, mafic metavolcanics, strongly carbonate altered, generally as 20-40% fine crystals, pervasive within the fine massive or ash tuff intervals. Also mod.-strongly chloritized. Tr-1% fine disseminated Py.											
		.											
		STRUCTURE: Top contact extremely contorted on mm to cm scale. Top 30cm apparently on a fold nose with mafic volcanics on the concave side of the contact. Lower contact foliation parallel at 65 to CA. Foliation at 71m, 75 to CA. Foliation 65-75 to CA from 71.5-76.2m.											
		.											
		72.30 to 72.80: 10% fracture controlled qtz Fe-carbonate stringers <3cm wide.											
		.											
		75.1: Gash filling Fe-carbonate and qtz veinlet at <20 degrees to CA.											
		.											
		ALTERATION: 1-2% Py tr Cp over 15-20cm core length.											

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
76.20	-35.50	180.00

2.17320

Nuinsco Resources Limited

DIAMOND DRILL LOG

PROPERTY: Turtle Tank
HOLE No.: NTT9602
Collar Eastings: 11625.00
Collar Northings: 9519.00
Collar Elevation: 0.00
Grid:
Stored at Nuinsco Resources core shack located

Collar Inclination: -40.00
Grid Bearing: 180.00
Final Depth: 76.20 metres
Ultra Mobile Diamond Drilling Ltd.
in Richardson Township - Lot 6 Conc. III

Logged by: C.A. Wagg
Date: 15/05/96
Down-hole Survey: Acid Test
BQ Core, Claim Number 1050815

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
0	0.65	OVERBURDEN (OVB) -											
0.65	3.96	MAFIC METAVOLCANICS (Mafic Metavolcanics) - fine grained. Medium to light green. Strongly Fe-carbonate altered, as up to 30-40% fine crystals <1mm. Crosscutting qtz +/- Fe-carbonate veinlets with tr Py, 1-2% sericite, tr tourmaline from 3.42-3.61 and along contact from 3.80-3.96 with tr Cp.	0.70	1.40	0.70	20	NIL	NIL	NIL	NIL	NIL	NIL	NIL
			1.40	2.50	1.10	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
			2.50	3.30	0.80	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
			3.30	3.66	0.36	NIL	NIL	NIL	0.6	NIL	NIL	NIL	NIL
			3.66	3.96	0.30	145	1150	NIL	1.2	NIL	NIL	NIL	NIL
		. ALTERATION: 1-2% subconcordant to crosscutting qtz and Fe-carbonate stringers. Tr-1% very fine Py. . STRUCTURE: Well foliated at 65-70 to CA. Lower contact coincident with a qtz-carbonate vein. Contact appears to be folded, and to crosscut foliation. Foliation 65 to CA at contact.											
3.96	5.57	RHYOLITE (Rhyolite) - pale grey-green to beige, very fine grained. Top 20cm of unit cut by numerous strongly folded Fe-carbonate stringers <5cm wide, generally with tr tourmaline, Py +/- Cp.	3.96	4.44	0.48	15	NIL	NIL	0.4	NIL	NIL	NIL	NIL
			4.44	4.84	0.40	15	NIL	NIL	0.2	NIL	NIL	NIL	NIL
			4.84	5.17	0.33	605	7500	NIL	9.8	NIL	NIL	NIL	NIL
			5.17	5.50	0.33	135	0	NIL	15.8	NIL	NIL	NIL	NIL

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		. ALTERATION: Tr-1% Py, tr Cp. 1-2% hairline fracture fillings. Weak-moderate pervasive Fe-carbonate alteration. . STRUCTURE: Foliation 65 to CA at top of unit, 45-50 to CA in middle and 70 to CA at lower contact. Top contact folded, contorted/crosscutting, oblique to foliation, orientation uncertain -core cut and shipped prior to detailed logging. Lower contact 75-80 to CA, subparallel to foliation.											
5.57	6.19	MAFIC METAVOLCANICS (Mafic Metavolcanics) - medium grey-green. Fine grained. Similar to interval from .65-3.96 but possibly andesitic to dacitic in composition. Apparently a fine crystal tuff with 10-15% medium green acicular amphiboles <2mm in length. . ALTERATION: Strong pervasive Fe-carbonate +/- calcite alteration. 10-15% qtz and Fe-carbonate stringers, most <1cm wide, one to 5cm wide, most subparallel to foliation. . STRUCTURE: Foliation 65 to CA for most of the unit. 70-75 to CA at lower contact. Contact 75-80 to CA.	5.50	5.88	0.38	5	345	NIL	0.6	NIL	NIL	NIL	NIL
6.19	8.25	RHYOLITE (Rhyolite) - greenish beige. Similar to interval from 3.96-5.57 but qtz-carbonate stringers <1cm wide are rare. .	5.88	6.31	0.43	NIL	NIL	NIL	0.2	NIL	NIL	NIL	NIL
			6.31	6.71	0.40	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
			6.71	7.02	0.31	10	NIL	NIL	NIL	NIL	NIL	NIL	NIL

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		ALTERATION: 1-2% 1-2mm wide, often contorted qtz +/- Py fracture fillings. 1% disseminated Py overall. . STRUCTURE: Well foliated. . 6.23 to 7.07: Qtz and Fe-carbonate vein with numerous sheared to complexly folded rhyolite inclusions. . ALTERATION: Tr Py, Cp, chlorite, tourmaline, sericite. . 6.96 to 7.1: Qtz and Fe-carbonate vein, similar to previous vein. . ALTERATION: Tr tourmaline, sericite, Py.	7.02	7.69	0.67	5	NIL	NIL	NIL	NIL	NIL	NIL	NIL
8.25	8.78	MAFIC METAVOLCANICS (Mafic Metavolcanics) - similar to interval from 5.57-6.19, but slightly more mafic/less altered? fine crystal tuff. Tr-1% fine disseminated Py throughout. . ALTERATION: 2-3cm wide foliation parallel veinlet at 8.45. 15cm brecciated mafic volcanics with 70-80% vein qtz and 2-3% Py, tr Cp at lower contact. . STRUCTURE: Foliation 70-75 to CA. Lower contact contorted, tightly folded for 15cm core length.	7.69	8.41	0.72	60	NIL	NIL	NIL	NIL	NIL	NIL	NIL

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS									
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
8.78	9.62	RHYOLITE (Rhyolite) - similar to interval from 6.19-8.25, but with relatively weak Fe-carbonate alteration. . ALTERATION: Barren of significant veining above 9.15. 9.15-9.62, 50% vein qtz. Interconnected subconcordant to crosscutting stringers, and a 5-10cm wide folded? vein at 9.5. Tr-1% Py, tr Cp, sericite. . STRUCTURE: Lower contact 55 to CA, foliation 65 to CA.	8.41	9.14	0.73	115	NIL	NIL	NIL	NIL	NIL	NIL	NIL
9.62	22.90	MAFIC METAVOLCANICS (Mafic Metavolcanics) - similar to previous mafic metavolcanic intervals. Well foliated, but not obviously strongly deformed, except for the presence of contorted qtz stringers and non-parallel vein contacts crosscutting foliation. . ALTERATION: Tr-1% fine disseminated Py with rare med. grained Py at flow contacts? -over 5-10cm intervals. <2% qtz-carbonate stringers <2cm wide. . STRUCTURE: Foliation generally 65-70 to CA rarely to 60 or 75 degrees. g. 75 degrees a few places from 15-16m. . 14.40: 2-3cm wide crosscutting qtz-carbonate veinlet folded across CA over 15cm core length. .	9.14	9.64	0.50	135	NIL	NIL	0.4	NIL	NIL	NIL	NIL
			9.64	10.22	0.58	30	NIL	NIL	0.4	NIL	NIL	NIL	NIL
			10.22	10.65	0.43	15	NIL	NIL	0.2	NIL	NIL	NIL	NIL
			10.65	11.13	0.48	35	NIL	NIL	0.4	NIL	NIL	NIL	NIL
			12.34	12.84	0.50	40	NIL	NIL	NIL	NIL	NIL	NIL	NIL
			12.84	13.63	0.79	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
			14.93	15.62	0.69	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
			16.05	16.58	0.53	40	NIL	NIL	NIL	NIL	NIL	NIL	NIL
			16.58	17.07	0.49	35	NIL	NIL	NIL	NIL	NIL	NIL	NIL
			17.07	17.37	0.30	30	NIL	NIL	NIL	NIL	NIL	NIL	NIL
			17.37	17.84	0.47	20	NIL	NIL	NIL	NIL	NIL	NIL	NIL
			17.84	18.29	0.45	15	NIL	NIL	NIL	NIL	NIL	NIL	NIL
			18.29	18.72	0.43	30	NIL	NIL	NIL	NIL	NIL	NIL	NIL
			18.72	19.20	0.48	20	NIL	NIL	0.4	NIL	NIL	NIL	NIL
			19.20	19.77	0.57	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
			19.77	20.65	0.88	50	NIL	NIL	NIL	NIL	NIL	NIL	NIL
			20.65	21.52	0.87	140	NIL	NIL	NIL	NIL	NIL	NIL	NIL

FROM	TO	LITHOLOGICAL DESCRIPTION
		ALTERATION: Tr Py.
		.
		16.1 to 16.57: 75-85% vein and stringer material.
		.
		ALTERATION: Tr Py, sericite, Cp, chlorite.
		.
		STRUCTURE: Top contact is foliation parallel to subparallel. Lower contact crosscutting, folded, near perpendicular to foliation at 65 to CA.
		.
		16.88 to 17.06: Qtz-carbonate veinlet with subconcordant, non-parallel contacts.
		.
		ALTERATION: Tr Py.
		.
		17.20 to 17.30: Red qtz-carbonate veinlet, 5-6cm wide.
		.
		ALTERATION: Tr Py, Chl.
		.
		STRUCTURE: Contacts "crennulated" on cm scale, average 40 to CA. Foliation 65-70 to CA.
		.
		17.42 to 19.75: 50% vein qtz + Fe-carbonate. Individual veins to 15-20cm wide. Much breccia-like fracture fillings, with 5mm to 2cm individual veinlets, often folded. Includes 1.37m interval of rhyolitic hostrock, shattered and strongly folded from 18.38-19.75.
		.

ASSAYS

FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
21.52	22.15	0.63	25	NIL	NIL	NIL	NIL	NIL	NIL	NIL
22.15	22.76	0.61	35	NIL	NIL	NIL	NIL	NIL	NIL	NIL

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		ALTERATION: Tr-1% Py, tr Cp, tourmaline, chlorite, sericite. Strong Fe-carbonate and chlorite alteration. . STRUCTURE: Foliation and lower contact 70-75 to CA. Foliation indistinct/disrupted in close proximity to veining. . 19.75 to 21.72: Fine-med. grained mafic metavolcanics, possibly pillowed. Very pale green, spotted with 30-50% sub-mm to 2mm amphibole and chlorite clusters. . ALTERATION: Strong Fe-carbonate alteration. 3-5% qtz stringers <3cm wide, most parallel to subparallel to foliation, above 21.20m. A few ptygmatically folded chlorite and Fe-carbonate-Py veinlets, <1cm wide, present over lowermost 20cm of unit. Intense Fe-carbonate replacement over 25cm core length around a fine carbonate and hematite? filled 4cm wide fracture. . STRUCTURE: Moderately foliated at 60-75 to CA. . 22.18 to 22.65: Strongly brecciated into cm and smaller fragments with intense Fe-carbonate replacement -interval <20% recognizable mafic fragments -resembles rhyolite in colour. . STRUCTURE: Contact at 21.72, foliation parallel at 70 to CA.											
22.90	43.96	INTERMEDIATE TO FELSIC METAVOLCANICS	22.76	23.54	0.78	75	NIL	NIL	NIL	NIL	NIL	NIL	NIL

FROM	TO	LITHOLOGICAL DESCRIPTION
		(Int. to Felsic Metavolcanics) - consisting primarily of pinkish beige rhyolite, similar to previous rhyolite intervals, and pale grey dacitic to rhyodacitic crystal tuffs.
		.
		22.90 to 25.32: Rhyolite, <1% disseminated Py. One to two <1cm wide qtz stringers per metre.
		.
		ALTERATION: Strong hairline fracturing over top 1-1.5m of unit. 2-3% qtz +/- carbonate +/- chlorite, Py.
		.
		STRUCTURE: Foliation 70 to CA at top of interval. 75 to CA at 24m, foliation 60-65 to CA within dacitic interval.
		.
		25.32 to 27.19: Fine-med. grey dacitic crystal tuff. 30% fine amphibole +/- chlorite. Includes 10-15cm wide, strongly carbonatized rhyolite dyke? at 26.0m.
		.
		ALTERATION: Moderate Fe-carbonate alteration. 2-3% fine-med. grained disseminated Py.
		.
		STRUCTURE: Dyke at 26.0m has non-parallel contacts both 70 to CA. Top contact foliation parallel.
		.
		27.19 to 30.96: Rhyolite, similar but much less fractured than interval from 22.9-25.32. Includes 7cm of dacitic tuff at 30.45 conformable to foliation.
		.
		ALTERATION: Mod. to strongly Fe-carbonate altered. 7-8%

			ASSAYS							
FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
23.54	24.74	1.20	25	NIL	NIL	NIL	NIL	NIL	NIL	NIL
24.74	25.70	0.96	75	NIL	NIL	NIL	NIL	NIL	NIL	NIL
25.75	26.75	1.00	10	NIL	NIL	NIL	NIL	NIL	NIL	NIL
26.75	27.25	0.50	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
27.25	27.64	0.39	5	NIL	NIL	NIL	NIL	NIL	NIL	NIL
27.64	28.19	0.55	10	NIL	NIL	NIL	NIL	NIL	NIL	NIL
28.19	28.87	0.68	10	NIL	NIL	NIL	NIL	NIL	NIL	NIL
28.90	29.87	0.97	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
29.87	30.30	0.43	75	NIL	NIL	NIL	NIL	NIL	NIL	NIL
30.30	31.08	0.78	15	NIL	NIL	NIL	NIL	NIL	NIL	NIL
31.08	31.79	0.71	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
31.79	32.54	0.75	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
34.03	34.89	0.86	30	NIL	NIL	NIL	NIL	NIL	NIL	NIL
34.89	35.67	0.78	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

FROM	TO	LITHOLOGICAL DESCRIPTION	FROM	TO	WIDTH	ASSAYS Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		disseminated Py from 27.19-28.90 as foliation parallel bleb-like segregations and along discontinuous hairline fractures and tension gashes with qtz. 2-3% Py overall below 28.9m.											
		.											
		STRUCTURE: Foliation 65-70 to CA in rhyolite.											
		.											
		COMMENTS: Somewhat colour banded, well foliated. Some med. grained Py overgrowing foliation. Presumably sheared and substantially recrystallized after deformation had largely ceased.											
		.											
		30.96 to 32.80: Fine dacite crystal tuff. Similar to previous dacite intervals.											
		.											
		ALTERATION: <1% fine disseminated Py.											
		.											
		STRUCTURE: Foliation 75 to CA, contact 80-85 subparallel to foliation.											
		.											
		32.80 to 35.65: Rhyolite, similar to previous rhyolite interval, but much less strongly fractured and banded.											
		.											
		STRUCTURE: 35.65, foliation parallel contact 60-65 to CA.											
		.											
		35.65 to 43.96: Series of dacitic crystal tuffs progressing toward horizons possibly andesitic-basaltic in original composition from 41.5-43.06. Includes weakly sheared felsic-rhyodacitic? crystal tuff from 43.06-43.50.											

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		.											
		ALTERATION: 1% fine disseminated Py. Moderately to strongly Fe-carbonate altered throughout. Rhyolite at 43.90, weakly hematite or k-spar altered adjacent to mafic metavolcanics.											
		.											
		43.50 to 43.63: 10-15cm of folded cherty metasediment, and a 15-18cm of pink rhyolite.											
		.											
		STRUCTURE: Cherty bedding cuts CA at 30-40 degrees, nearly perpendicular to foliation at 70 to CA.											
43.96	76.2	ALTERED MAFIC TO INTERMEDIATE METAVOLCANICS	43.14	43.99	0.85	NIL	NIL	NIL	0.4	NIL	NIL	NIL	NIL
		(Alt. Maf. to Int. Metavolcanics) - light to medium green.	47.82	48.28	0.46	20	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		Fine to medium grained. Similar to previous mafic intervals	48.28	49.02	0.74	20	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		in degree of Fe-carbonate alteration, but essentially devoid	68.55	68.95	0.40	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		of significant veining, stringer zones, or elevated sulphide	68.95	69.90	0.95	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		content.	69.90	70.80	0.90	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		.	71.62	72.56	0.94	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		ALTERATION: Strong pervasive Fe-carbonate alteration/	73.57	74.25	0.68	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		replacement of non-mafic silicates? Strong pervasive	74.25	75.15	0.90	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		chloritization. Tr-2% fine disseminated Py.	75.15	76.20	1.05	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		.											
		43.96 to 47.77: Series of fine grained mafic crystal tuffs somewhat sheared, well banded overall, with a few small pillows or mafic fragments with qtz-carbonate-epidote filled amygdules over top 20cm of interval.											
		.											

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		ALTERATION: <1% qtz stringers, tr-1% fine Py.											
		.											
		STRUCTURE: Foliaiton 70-80 to CA above 45m, 65-70 to CA from 45-47.75m.											
		.											
		47.77 to 63.45: Series of thoroughly recrystallized massive to amygdaloidal flows. Unbanded. Up to 5% qtz-carbonate filled amygdules from 51.0-54.60.											
		.											
		ALTERATION: Tr-1% Py. Coarse crystalline Fe-carbonate constitutes up to 45-50% of medium grained intervals.											
		.											
		STRUCTURE: Contact foliation parallel. Foliation 60-65 to CA throughout interval.											
		.											
		63.45 to 76.2: Fine grained mafic crystal tuffs. Similar to interval from 43.96-47.77.											
		.											
		STRUCTURE: Foliation 65-75 to CA.											
		.											
		68.20 to 76.2: Fine mafic crystal tuff. Very well foliated/well sheared with common 5-30cm wide foliation parallel zones of strong potassium feldspar alteration, with some silicification and sericitization. Entire interval well fractured to shattered with 3-4% Fe-carbonate as <5mm wide fracture fillings. Tr qtz stringers <1cm wide, foliation parallel. K-spar alteration ceases abruptly at 72.50.											
		.											

FROM	TO	LITHOLOGICAL DESCRIPTION	FROM	TO	WIDTH	ASSAYS Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		ATERATION: Below 66.4, fine crystalline carbonate is no longer present. Pervasive Ca and Fe?-carbaonate alteration remains moderately strong. 60-75% pinkish hued rock above 72.50 due to strong k-spar alteration. 1-2% fine disseminated Py. . STRUCTURE: Shearing/foliation 65-75 to CA. Foliation appears to parallel bedding except at 76.0, where bedding at 65-70 to CA, can be seen subparallel to foliation at 75 to CA.											

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
20.00	-39.00	180.00
76.20	-37.00	

2.17320

Nuinsco Resources Limited

DIAMOND DRILL LOG

G.J. Archibald P. Geo
Per C.A. WAGG

PROPERTY: Turtle Tank
HOLE No.: NTT9603
Collar Eastings: 11600.00
Collar Northings: 9525.00
Collar Elevation: 0.00
Grid:
Stored at Nuinsco Resources core shack located

Collar Inclination: -40.00
Grid Bearing: 180.00
Final Depth: 76.20 metres
Ultra Mobile Diamond Drilling Ltd.
in Richardson Township - Lot 6 Conc. III

Logged by: C.A. Wagg
Date:
Down-hole Survey: Acid Test
BQ Core, Claim Number 1050815

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
0	0.8	OVERBURDEN (OVB) -											
0.8	35.5	INTERMEDIATE TO FELSIC METAVOLCANICS	0.62	1.42	0.80	20	NIL	NIL	0.2	NIL	NIL	NIL	NIL
		(Int. to Felsic Metavolcanics) - light grey to very pale	1.42	2.42	1.00	50	NIL	NIL	4.6	NIL	NIL	NIL	NIL
		grey-green. Fine grained to aphanitic. Generally well	2.42	3.09	0.67	5	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		foliated. Members include massive rhyolite flows, fine	3.09	3.86	0.77	NIL	NIL	NIL	0.6	NIL	NIL	NIL	NIL
		dacitic to rhyodacitic ash tuffs -similar in appearance to	3.86	4.50	0.64	145	1150	NIL	1.2	NIL	NIL	NIL	NIL
		rhyolite, and a few metres of thick intervals of intermediate	4.50	5.33	0.83	15	NIL	NIL	0.2	NIL	NIL	NIL	NIL
		andesitic to dacitic-crystal tuff, light to med. green in colour,	7.49	8.48	0.99	15	NIL	NIL	0.4	NIL	NIL	NIL	NIL
		and fine to med. grained. The intermediate crystal tuffs contain	8.48	9.30	0.82	605	7500	NIL	0.4	NIL	NIL	NIL	NIL
		15-50% amphibole +/- chlorite as clusters to 1mm diameter,	9.30	9.71	0.41	135	0	NIL	15.8	NIL	NIL	NIL	NIL
		up to 20-25% fine crystalline Fe-carbonate, with the remainder	9.71	10.74	1.03	5	345	NIL	0.6	NIL	NIL	NIL	NIL
		aphanitic pale grey groundmass.	10.74	11.27	0.53	10	NIL	NIL	0.2	NIL	NIL	NIL	NIL
		.	11.27	11.66	0.39	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		ALTERATION: Weak pervasive Fe-carbonate alteration throughout,	11.66	12.22	0.56	10	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		moderate to strong carbonization within and below the zone	12.22	12.55	0.33	50	NIL	NIL	0.8	NIL	NIL	NIL	NIL
		of stringers and veining which extends from about 10.47-20.25m.	12.55	12.86	0.31	60	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		Approximately 15% qtz over the 10m interval. Hairline fractures	12.86	13.53	0.67	115	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		sealed by qtz +/- Fe-carbonate +/- tr Py are best developed	13.53	13.99	0.46	135	NIL	NIL	0.4	NIL	NIL	NIL	NIL
		within rhyolites at levels from 1-2% throughout, to up to 7-8%	13.99	14.75	0.76	30	NIL	NIL	0.4	NIL	NIL	NIL	NIL
		where shattered to weakly brecciated within the zone of veining.	14.75	15.47	0.72	15	NIL	NIL	0.2	NIL	NIL	NIL	NIL
		.	15.47	15.95	0.48	35	NIL	NIL	0.4	NIL	NIL	NIL	NIL

FROM	TO	LITHOLOGICAL DESCRIPTION
		STRUCTURE: Foliation variable from 65-80 to CA, rarely to 60. Internal contacts all appear to be foliation parallel, or nearly so.
		.
		COMMENTS: Concordant foliation and contacts suggests that the felsic interval within this hole is either tightly isoclinally folded, or alternatively, was obtained primarily from one limb of the fold, presumably the southern one.
		.
		0.8 to 2.1: Rhyolite. Core broken, some ground, over uppermost 20-30cm. Pale grey relatively unaltered and weakly fractured.
		.
		ALTERATION: Tr fine Py, very weak sericite alteration. 1-2cm wide fracture at 2.0m, foliation parallel at 65-70 to CA with minor Py, Cp, Ma and partly oxidized Fe-carbonate filling.
		.
		STRUCTURE: Foliation 65 to CA throughout. Lower contact 65 to CA.
		.
		2.1 to 6.42: Fine rhyolitic to rhyodacitic ash tuff. Very weakly banded in places. Very fine grained, with trace qtz eyes <2mm in diameter. Contains several 10-20cm intervals, which are likely massive rhyolite flows at 2.8, 3.1, 4.0, 4.4 metres.
		.
		ALTERATION: 4-5% fine Py over 7-8cm at 2.8m as, <1mm wide fractures within thin shattered rhyolite. 3-5% disseminated fine-med. grained Py over 20cm at 3.45m. 2-3%

ASSAYS

FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
15.95	16.34	0.39	40	NIL	NIL	NIL	NIL	NIL	NIL	NIL
16.34	16.70	0.36	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
16.70	17.29	0.59	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
17.29	18.01	0.72	40	NIL	NIL	NIL	NIL	NIL	NIL	NIL
18.01	18.58	0.57	35	NIL	NIL	NIL	NIL	NIL	NIL	NIL
18.58	19.17	0.59	30	NIL	NIL	NIL	NIL	NIL	NIL	NIL
19.17	19.75	0.58	20	NIL	NIL	NIL	NIL	NIL	NIL	NIL
19.75	20.20	0.45	15	NIL	NIL	NIL	NIL	NIL	NIL	NIL
26.00	26.84	0.84	30	NIL	NIL	NIL	NIL	NIL	NIL	NIL
28.45	29.10	0.65	20	NIL	NIL	0.4	NIL	NIL	NIL	NIL

FROM	TO	LITHOLOGICAL DESCRIPTION	FROM	TO	WIDTH	ASSAYS Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		disseminated Py and Po along fractures with qtz and Fe-carbonate over 30cm at 4.2m.											
		.											
		STRUCTURE: Foliation 65 to CA except at 6.0m where foliation is 70degrees to CAand at 6.7 and 8.8m where foliation is 60 to CA.											
		.											
		6.42 to 10.50: Rhyolite. Similar to interval from .8-2.1m. Includes 30cm bed of fine rhyodacitic crystal to ash tuff at 7.0m. 2-3cm wide, foliation parallel qtz-carbonate veinlets at 8.05, 8.34 and 9.06, no sulphides observed. 10cm thick bed of crystal to ash tuff at 9.8m, similar to the one at 7.0m.											
		.											
		ALTERATION: 3-4% fine-med. grained disseminated Py from 8.5-9.35. Occurs in clusters to 2mm with qtz and Fe-carbonate, and as small euhedral crystals overgrowing foliation.											
		.											
		STRUCTURE: Tuff contacts at 7.0m, 65 to CA, foliation parallel. Tuff contacts at 9.8m, 75 to CA, foliation parallel. Foliation at 9.8m, 70 to CA.											
		.											
		10.50 to 11.4: Bleached, moderately Fe-carbonate altered rhyolite. Well fractured, particularly near lower contact where some qtz-carbonate-Py fillings are ptygmatically folded, and several 1-2cm wide stringers are present.											
		.											
		ALTERATION: 3-5% qtz and Fe-carbonate +/- Py veinlets, stringers and hairline fillings. 1-2% fine Py, disseminated and from											

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		fillings. Moderate Fe-carbonate alteration and weak silicification.											
		.											
		STRUCTURE: Well foliated. 65 to CA at 10.5m, increasing to 70-75 to Ca at 11.4.											
		.											
		COMMENTS: Upper limit of zone of qtz and Fe-carbonate veining, and mod.-strong alteration.											
		.											
		11.4 to 12.4: Andesitic to dacitic crystal tuff. Medium green. Laminated and very well foliated above 12.05m -possibly due to shearing with relatively common foliation parallel stringers up to 1cm wide and two subconcordant to crosscutting veinlets 5-10cm wide. Below 12.05m, unit is moderately foliated, medium grained. Possibly a massive flow protolith.											
		.											
		ALTERATION: 20% qtz and Fe-carbonate stringers and veinlets. Strong Fe-carbonate, and chlorite alteration above 12.05m, weak to moderate below. Tr-1% fine Py mostly from stringers.											
		.											
		STRUCTURE: Upper contact weakly folded, coincident with veinlet with non-parallel contact. Foliation/shearing 60-65 to CA. "Contact" at 12.05 sharp, planar 60 to CA marking an abrupt change in the intensity of foliation.											
		.											
		12.4 to 13.02: Rhyolite similar to interval from 10.5-11.4 but more strongly altered, and with more veining and sulphides.											
		.											
		ALTERATION: 20-25% qtz and Fe-carbonate including a											

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		vein at lower contact. Moderate-strongly Fe-carbonate and, sericite and silicification. 3-4% fine disseminated Py, tr Cp from stringers and veinlets.											
		.											
		STRUCTURE: Top contact foliation parallel at 60 to CA. Foliation distorted by veining, somewhat overprinted by alteration, 65-70 to CA. Lower contact coincident with an irregular folded, fracture filling? qtz and Fe-carbonate veinlet.											
		.											
		13.02 to 13.79: Andesitic to dacitic crystal tuff. Similar to interval from 12.05-12.4, but slightly more altered and with two foliation parallel qtz-carbonate stringers <2cm wide.											
		.											
		ALTERATION: 2-3% fine-med. grained disseminated Py. 3-4% qtz-carbonate and tr Cp from stringers.											
		.											
		STRUCTURE: Foliation 65-70 to CA. Lower contact foliation parallel.											
		.											
		13.79 to 18.75: Rhyolite similar to previous intervals of this unit. Strongly bleached, shattered to brecciated. Includes two intervals of dacitic crystal tuff from 16.34-17.03 and from 18.50-18.75. Significant veins from: 13.84-14.11; 15-15.19; Folded ~unknown width. 50% of core volume from 15.54-15.7; 16.18-16.46 -contorted; 16.65-16.84 -within sheared brecciated intermediate tuff and containing a few pieces of blue-grey											

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS								
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb

chert; and from 17.6-17.0 open folded -width unknown, but >core diameter, single contact cuts core twice at an average angle of 15 to CA.

.

ALTERATION: 20% qtz and Fe-carbonate veins. Approximately 5% hairline fracture fillings. <1% fine disseminated Py tr Cp in a few of the veins. Stringers vary from foliation parallel to crosscutting and contorted. Vein system probably interconnected on a large scale similar to the small scale hairline fracturing. Essentially brecciated on a microscopic to megascopic scale, with qtz and Fe-carbonate resealing fractures. Veins contain "on average" 10-15% fine to coarse Fe-carbonate, <1% Py and traces of muscovite Cp and tourmaline locally.

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STRUCTURE: All sub-unit contacts are foliation parallel or within 5 degrees. Lower contact of the interval at 18.75 is 45 to CA, nearly perpendicular to foliation at 50 to CA. Foliation is 70 to CA at top of interval, 60-65 to CA throughout the middle. 75 to CA at 18.25. Two fabrics evident at lower contact, foliation 65 to CA, bedding 45.

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COMMENTS: Although fracture filling veins predominate, some developed at geological contacts appear to fill non-fracture controlled dilation zones apparently developed during shearing as a result of contrasting strain ductility contrasts between adjacent rock types.

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18.75 to 26.28: Intermediate to felsic crystal tuffs. Dacitic

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS									
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		to rhyodacitic from 20.47-23.94 including 28cm of rhyolite at 23m, and also from 25.81-26.28. Remainder andesitic to dacitic crystal tuff, with the lower of the two intervals most mafic, or perhaps least altered, over its central metre or so. . ALTERATION: 30-40% qtz Fe-carbonate over 35-40cm, from a contorted branching stringer at 20.15. Minor chlorite, 1% muscovite, tr-1% tourmaline, tr Py. . STRUCTURE: Foliation 65-70 to CA above 23.0m. Foliation 70 to CA, occasionally to 75 from 23-35.5m. . 26.28 to 33.29: Rhyolite. Similar to interval from 10.5-11.4m. Sections intercalated with fine dacitic crystal tuffs may be rhyolitic ash within which any bedding/banding has been obscured by deformation and alteration. Interval includes dacite crystal tuffs from: 27.33-27.44, 31.44-31.58, and 32.09-32.33 with foliation parallel contacts. . 33.53 to 35.5: Fine dacite crystal tuff. Similar to interval from 20.47-27.93, banded in places. . ALTERATION: Tr-1% fine disseminated Py. . STRUCTURE: Upper contact 80 to CA, foliation 70 to CA.										
35.5	76.2	ALTERED MAFIC TO INTERMEDIATE METAVOLCANICS	61.40	62.70	1.30	NIL	NIL	NIL	0.4	NIL	NIL	NIL	NIL

FROM	TO	LITHOLOGICAL DESCRIPTION
		(Alt. Maf. to Int. Metavolcanics) - light green. Fine grained, spotted with 20-40% Fe-carbonate crystals, and up to 10-15% qtz and Fe-carbonate filled amygdules in places. 35-55% fine, medium green amphibole and chlorite. Apparently a series of amygdaloidal flows. Unit possibly pillowed from about 52.5-53.5 metres, tuffaceous and grading into a polylithic fragmental with mafic crystal groundmass below that.
		.
		ALTERATION: Strongly chlorite, calcite, and Fe-carbonate altered throughout. Well banded, possibly due primarily to deformation. Partially oxidized Fe-carbonate +/- hematite zone from 62.25-62.9, some ground core present. A minor fault or fracture zone.
		.
		STRUCTURE: Foliation 65-70 to CA at upper contact. 70-80 to CA from about 44-49m. Foliation 60-65 to CA from about 50-53m. Foliation 65-70 to CA from 55m to 76.2m.
		.
		53.5 to 76.2: Strongly chlorite, and calcite +/- Fe-carbonate altered. Very well foliated, uniformly moderately to strongly sheared. Fine-med. grained mafic crystal tuff above about 72m. Below 72m, rare felsic and chert fragments present generally under 1cm x 3cm. 1-2% <1mm diameter qtz eyes. Mafic to intermediate fragments present are essentially homogenized with and indistinguishable from the groundmass due to deformation and alteration.
		.
		ALTERATION: 1% very fine disseminated Py. 3-5%, often

ASSAYS

FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
66.71	67.72	1.01	10	NIL	NIL	NIL	NIL	NIL	NIL	NIL
70.44	71.17	0.73	5	NIL	NIL	NIL	NIL	NIL	NIL	NIL
72.62	73.13	0.51	10	NIL	NIL	NIL	NIL	NIL	NIL	NIL

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		bondinaged, foliation parallel qtz and Fe-carbonate stringers <1cm wide.											
		.											
		STRUCTURE: Foliation at 76.2, 65 to CA.											

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
38.00	-38.00	
75.00	-36.00	
76.20	-36.00	

2.17830

Nuinsco Resources Limited

DIAMOND DRILL LOG

c/ J Archibald P.Geo

Per C.A. WAGG

PROPERTY: Turtle Tank
HOLE No.: NTT9604
Collar Eastings: 11625.00
Collar Northings: 9550.00
Collar Elevation: 0.00
Grid:
Stored at Nuinsco Resources core shack located

Collar Inclination: -50.00
Grid Bearing: 180.00
Final Depth: 85.34 metres
Ultra Mobile Diamond Drilling Ltd.
in Richardson Township - Lot 6 Conc. III

Logged by: C.A. Wagg
Date: 17/05/96
Down-hole Survey: Acid Test
BQ Core, Claim Number 1050815

FROM	TO	LITHOLOGICAL DESCRIPTION
0	1.62	OVERBURDEN (OVB) -
1.62	27.47	FELSIC AND MINOR INTERMEDIATE METAVOLCANICS (Fels. and Minor Int. Metavolcanics) - fine grained, beige to white, with a few intervals of fine, medium grey, dacitic crystal tuff. Felsic rocks consist of rhyolitic flows and weakly banded fine crystal and ash tuffs. . ALTERATION: Moderate to strong pervasive Fe-carbonate alteration. Less than or equal to 1% qtz and Fe-carbonate stringers, generally foliation parallel and <2cm wide. . STRUCTURE: Foliation 60-65 to CA. Generally strongly fractured to weakly brecciated, with mm-wide qtz and Fe-carbonate fillings. . 1.62 to 2.92: Massive rhyolite flow with a few percent Py and tr Cp over 10-15cm at 2.45m. Carbonate partially oxidized due to near surface weathering. . ALTERATION: Contains three 1-2cm qtz stringers, foliation parallel.

ASSAYS

FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
1.62	2.12	0.50	20	NIL	NIL	0.2	NIL	NIL	NIL	NIL
2.12	2.60	0.48	50	NIL	NIL	4.6	NIL	NIL	NIL	NIL
2.60	3.47	0.87	5	NIL	NIL	NIL	NIL	NIL	NIL	NIL
4.57	5.28	0.71	NIL	NIL	NIL	0.6	NIL	NIL	NIL	NIL
20.13	20.65	0.52	145	1150	NIL	0.6	NIL	NIL	NIL	NIL
20.95	21.62	0.67	20	NIL	NIL	0.6	NIL	NIL	NIL	NIL
24.38	25.31	0.93	10	NIL	NIL	0.4	NIL	NIL	NIL	NIL
26.40	26.70	0.30	20	7500	NIL	1.2	NIL	NIL	NIL	NIL

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		.											
		2.92 to 4.20: Mafic to intermediate crystal tuff.											
		Fine grained, med. to light green.											
		.											
		ALTERATION: 30-35% qtz and Fe-carbonate stringers to											
		2cm wide above 2.4m. Strong chlorite carbonate alteration											
		throughout. Trace Py.											
		.											
		STRUCTURE: Upper contact subconcordant, coincident with											
		a cm wide qtz stringer. Lower similar, crosscutting at 35 to											
		CA. Foliation 50-60 to CA.											
		.											
		4.2 to 24.47: Primarily massive rhyolitic flows and rhydacitic											
		ash and fine crystal tuffs, banded on cm scale. Includes 15-20cm											
		wide qtz-carbonate vein at 5.05m, essentially barren of sulphide,											
		10-15cm wide foliation parallel veinlet with tr Cp, sericite at											
		6.55m.											
		.											
		ALTERATION: Trace-1% fine Py overall. Tr Sp noted along											
		mm wide fractures at 13.25 within rhyolite and at 15.60 and 16.95,											
		also along foliation parallel fractures within a fine rhyolitic											
		crystal tuff. 5-10% disseminated Py over 10cm at 17.05 apparently											
		filling amygdules with qtz and calcite.											
		.											
		STRUCTURE: Foliation 65 to CA, rarely to 60. Contacts above											
		about 10m tend to be at 10-15 degrees less to the CA, than is											
		foliation. Below 10m, contacts are at 10-15 degrees greater angle											
		to the CA than foliation, suggesting a fold axis may have been											

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		crossed.											
24.74	30.22	MAFIC TO INTERMEDIATE METAVOLCANICS	27.24	27.76	0.52	85	0	NIL	0.2	NIL	NIL	NIL	NIL
		(Maf. to Int. Metavolcanics) - fine grained, medium to dark green.	27.76	28.56	0.80	10	345	NIL	0.6	NIL	NIL	NIL	NIL
		Well foliated, with strong pervasive Fe-carbonate and chlorite	28.56	30.19	1.63	10	NIL	NIL	0.2	NIL	NIL	NIL	NIL
		alteration. Generally unbanded, and presumably massive flows.											
		.											
		ALTERATION: Strong Fe-carbonate and mod.-strong sericite											
		alteration. 1% fine disseminated Py. 4-5% foliation parallel											
		to subconcordant cm-wide qtz and Fe-carbonate stringers											
		with minor tourmaline noted at 28.55m.											
		.											
		STRUCTURE: Contact at 27.47 subparallel to foliation.											
		Foliation 55 to CA. Contact 40-45 to CA.											
		.											
		From 29.75 to below lower contact: Unit is strongly folded,											
		strongly fractured and well veined. Infolded rhyolite from											
		29.80-30.0m.											
		.											
		STRUCTURE: Rhyolite at 28.9m has contorted crosscutting											
		top contact with mafic unit. Lower contact foliation parallel											
		at 70 to CA. Lower contact of unit at 30.22 subconcordant at											
		70-75 to CA. Foliation locally variable within veined interval.											
30.22	56.40	FELSIC METAVOLCANICS (Felsic Metavolcanics) - similar	30.19	30.87	0.68	25	NIL	NIL	0.2	NIL	NIL	NIL	NIL
		to interval from 1.62-27.47, with dacitic crystal tuffs and a few thin	30.87	31.28	0.41	10	NIL	NIL	NIL	NIL	NIL	NIL	NIL

FROM	TO	LITHOLOGICAL DESCRIPTION
		mafic tuffs predominanting below 45.75.
		.
		ALTERATION: Tr-2% fine disseminated Py, primarily along
		fractures.
		.
		STRUCTURE: Foliation 60-70 to CA, commonly 65.
		.
		30.22 to 30.6: 30-35% foliation parallel to contorted qtz and
		Fe-carbonate stringers with tr Py.
		.
		30.60 to 31.57: Qtz-carbonate vein with 5% sheared rhyolite
		inclusions.
		.
		ALTERATION: Tr Py, tourmaline, minor sericite.
		.
		STRUCTURE: Top contact foliation parallel at 65 to CA.
		Lower contact foliation parallel to subconcordant at 45 to CA.
		.
		32.70 to 33.08: Qtz-carbonate vein similar to the one
		from 30.6-31.57.
		.
		ALTERATION: Tr Py.
		.
		STRUCTURE: Foliation and top contact 60-65 to CA.
		Lower contact 30 to CA.
		.
		44.60 to 45.60: Strongly fractured to shattered rhyolite.
		.

ASSAYS

FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
31.28	31.75	0.47	50	NIL	NIL	0.8	NIL	NIL	NIL	NIL
31.75	32.00	0.25	60	NIL	NIL	NIL	NIL	NIL	NIL	NIL
32.72	33.12	0.40	115	NIL	NIL	NIL	NIL	NIL	NIL	NIL
44.42	45.24	0.82	135	153	NIL	0.4	NIL	NIL	NIL	NIL
45.24	45.85	0.61	10	133	NIL	0.2	NIL	NIL	NIL	NIL

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		ALTERATION: 1-2% very fine Py. 5-7% qtz-carbonate fracture fillings up to 2mm wide.											
		.											
		45.70 to 56.40: Primarily fine-med. grained dacitic crystal tuff, with greatly subordinate narrow intervals of rhyolite, rhyolitic ash and fine mafic tuff?											
		.											
		ALTERATION: 1-2% fine disseminated Py. Strong Fe-carbonate alteration accompanied by chlorite within the mafic sections.											
		.											
		STRUCTURE: Foliation 65-75 to CA. Contact with overlying rhyolitic package within an interval of broken core; remaining contacts foliation parallel.											
		.											
		Rhyolitic from:											
		48.76-48.91											
		49.16-49.49											
		55.65-55.78											
		.											
		Mafic from:											
		48.58-48.76											
		48.91-49.16											
		55.78-56.04											
		.											
		50.0 to 55.65: Dark grey dacitic crystal tuff grades into a darker-andesitic?-rock spotted with up to 15-20% subhedral Fe-carbonate crystals averaging 1mm in diameter.											

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
56.40	85.34	MAFIC TO INTERMEDIATE METAVOLCANICS (Maf. to Int. Metavolcanics) - fine-med. grained. Dark green. Consisting of about 60% amphibole and chlorite, 40% Fe-carbonate plus qtz, and minor feldspar? A strongly altered, well foliated sequence of massive to amygdaloidal flows and recrystallized crystal tuffs. Amygdules visible in places throughout, but are most notable from 56.80-59.60, often exceeding 2 x 5mm in size. . ALTERATION: Strong chlorite and Fe +/- Ca carbonate alteration. Spotted with 10-25% Fe-carbonate crystals up to 1-2mm in size in places. Tr-1% fine disseminated Py; no veining of significance. 2-3% disseminated Mt. in crystal tuff from 78-79.5m. . STRUCTURE: Foliation 60-70 to CA, commonly 65. Subinterval contacts difficult to discern due to the intensity of alteration/deformation, but appear foliation parallel.											

Nuinsco Resources Limited

DIAMOND DRILL LOG

PROPERTY: Turtle Tank
HOLE No.: NTT9604

FROM	TO	LITHOLOGICAL DESCRIPTION	FROM	TO	WIDTH	ASSAYS Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
38.11	-48.00	
76.22	-46.00	
85.34	-46.00	

2.17320

Nuinsco Resources Limited

DIAMOND DRILL LOG

G. J. Archibald P. Geo
Per C. A. WAGG

PROPERTY: Turtle Tank
HOLE No.: NTT9605
Collar Eastings: 11637.00
Collar Northings: 9545.00
Collar Elevation: 0.00
Grid:
Stored at Nuinsco Resources core shack located

Collar Inclination: -45.00
Grid Bearing: 180.00
Final Depth: 83.84 metres
Ultra Mobile Diamond Drilling Ltd.
in Richardson Township - Lot 6 Conc. III

Logged by: C.A. Wagg
Date:
Down-hole Survey: Acid Test
BQ Core, Claim Number 1050815

FROM	TO	LITHOLOGICAL DESCRIPTION
0	0.7	OVERBURDEN (OVB) -
0.7	10.65	INTERMEDIATE TO FELSIC CRYSTAL TUFFS WITH MINOR RHYOLITE (Int. to Fels. Crys. Tuffs with Min. Rhyolite) - fine grained, light grey to greenish grey, with two 20cm aphanitic rhyolite flows? between 1.3 and 2.0 metres, and a third from 1.5-1.98 metres. Tuff composition approximately 5% fine, green-black amphibole crystals. Remainder -includes med. grey calcite after fsp? dominated groundmass. Locally to 30-50% fine mafic silicates Chl +/- amphibole +/- biotite. 25-30cm qtz and Fe-carbonate vein at 3.85m with tr Cp. Contacts non-parallel, planar to gently folded at 45 and 55 to CA respectively. . ALTERATION: Intermediate tuffs strongly Ca +/- Fe-carbonate altered. Rhyolites and minor felsic ash tuff strongly sericitized. 3-5% qtz and Fe-carbonate fracture fillings <5mm wide, generally foliation parallel. Veinlets <1.5cm wide which are generally crosscutting. 7-8% veinlets 1.5-10cm wide. Larger veins described separately. Tr-1% Py on average, almost entirely from wallrock -locally to 3-4% over 20-25cm.

ASSAYS

FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
0.82	1.81	0.99	105	300	NIL	0.2	NIL	NIL	NIL	NIL
1.81	2.69	0.88	240	315	NIL	0.2	NIL	NIL	NIL	NIL
2.69	3.57	0.88	5	200	NIL	0.2	NIL	NIL	NIL	NIL
3.57	4.36	0.79	NIL	78	NIL	0.6	NIL	NIL	NIL	NIL
5.47	6.03	0.56	5	120	NIL	0.6	NIL	NIL	NIL	NIL
6.03	6.62	0.59	305	570	NIL	0.2	NIL	NIL	NIL	NIL
7.62	8.04	0.42	300	940	NIL	0.4	NIL	NIL	NIL	NIL
8.88	9.56	0.68	140	193	NIL	1.2	NIL	NIL	NIL	NIL
9.56	10.03	0.47	70	2450	NIL	2.0	NIL	NIL	NIL	NIL
10.03	10.49	0.46	925	600	NIL	0.4	NIL	NIL	NIL	NIL

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		.											
		STRUCTURE: Above 4m, contacts parallel foliation at											
		60-70 to CA, averaging 65. Below 4m rhyolite contacts											
		are near perpendicular to foliation, and usually contorted											
		to ptygmatically folded, averaging approximately 45 to CA.											
		.											
		COMMENTS: Hole collered approximately on the contact											
		between rhyolitic unit -to north- and the mafic metavolcanics.											
		Rhyolite uphole -to the north.											
		.											
		5.54 to 6.25: Approximately 80% qtz and Fe-carbonate vein											
		with brecciated to stringer rich contacts. Vein material 15-20%											
		Fe-carbonate, 1-2% sericite, tr Cp, with a few vugs along											
		fractures only partially resealed by Fe-carbonate.											
		.											
		ALTERATION: Tr Cp, contained almost exclusively within											
		veins, as disseminated blebs to fine stringers filling fractures.											
		Best mineralization within the interval 2-3% Py, 1% Cp over											
		1m above lower contact, from veinlets 5cm wide and under.											
10.65	54.30	MAFIC TO INTERMEDIATE METAVOLCANICS	11.55	12.00	0.45	20	305	NIL	0.4	NIL	NIL	NIL	NIL
		(Maf. to Int. Metavolcanics) - fine to med. grained. Light	13.98	14.36	0.38	25	370	NIL	0.4	NIL	NIL	NIL	NIL
		to med. green. Strongly foliated, with strong pervasive Ca	14.36	14.82	0.46	1550	590	NIL	0.4	NIL	NIL	NIL	NIL
		and Fe-carbonate alteration throughout. Well fractured to	14.82	15.82	1.00	35	44	NIL	0.2	NIL	NIL	NIL	NIL
		shattered throughout, with only a few isolated metre-long	16.24	16.69	0.45	435	5300	NIL	0.4	NIL	NIL	NIL	NIL
		intervals containing less than 5% fracture filling qtz-carbonate.	16.69	17.09	0.40	200	430	NIL	0.6	NIL	NIL	NIL	NIL
		In general the unit contains 8-10% qtz and Fe-carbonate	17.09	17.94	0.85	15	63	NIL	0.4	NIL	NIL	NIL	NIL

FROM	TO	LITHOLOGICAL DESCRIPTION
		veins with 20-25% veining common over 1-2m intervals.
		Probably tuffaceous near the contact with intermediate to
		felsic rocks, but apparently grading into fine massive flows
		at depth. Transition to less banded, less fractured rocks
		with somewhat less abundant veining is at about 32 metres.
		Below about 35m, Fe-carbonate within veins is often stained
		pinkish to reddish, presumably due to the presence of fine
		hematite.
		.
		ALTERATION: Strong pervasive Fe-carbonate +/- silicification
		1% Py, tr-1% Cp from 14.35-18.0m. Tr Cp overall from 10.65-
		21.30 as fine fracture fillings and disseminations within veins.
		Veining concentrated within 0.5 metre intervals bracketing 16.60,
		18.20, 18.75, 19.80, 20.3-21.75, and at 23.55m. Tr Cp
		in veinlet at 23.30, below which veining appears to be
		essentially barren of sulphides. Approximately 50% veining
		from 24.2-27.0m. Approximately 20% veining from 34.20-
		38.90, 20% over 1m at 47.25, and 75% over 1.3m at 57.5m.
		i.e. 56.85-58.15m.
		.
		STRUCTURE: Vein contacts generally subconcordant to crosscutting.
		Stringers usually contorted and interconnected, giving the
		appearance of a qtz-cemented breccia. Foliation is generally 60-
		65 to CA with several short intervals of 20-85 to CA, possibly
		indicating the axial planes of small scale folds.
		.
		COMMENTS: Transition from intermediate to mafic units is
		marked by an increase in grain size, and a colour change from

		ASSAYS								
FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
17.94	18.38	0.44	95	1800	NIL	2.6	NIL	NIL	NIL	NIL
18.38	19.01	0.63	15	285	NIL	0.2	NIL	NIL	NIL	NIL
19.01	19.68	0.67	10	205	NIL	0.4	NIL	NIL	NIL	NIL
19.68	20.18	0.50	20	230	NIL	0.4	NIL	NIL	NIL	NIL
20.18	20.85	0.67	600	310	NIL	0.4	NIL	NIL	NIL	NIL
20.85	21.33	0.48	NIL	11	NIL	0.6	NIL	NIL	NIL	NIL
21.33	21.84	0.51	40	65	NIL	1.0	NIL	NIL	NIL	NIL
23.57	24.13	0.56	75	480	NIL	0.6	NIL	NIL	NIL	NIL
24.13	25.10	0.97	30	57	NIL	0.2	NIL	NIL	NIL	NIL
25.10	26.25	1.15	20	115	NIL	0.4	NIL	NIL	NIL	NIL
26.25	27.43	1.18	15	35	NIL	NIL	NIL	NIL	NIL	NIL
27.43	28.98	1.55	30	6	NIL	0.2	NIL	NIL	NIL	NIL
35.20	36.12	0.92	80	NIL	NIL	0.4	NIL	NIL	NIL	NIL
36.57	37.51	0.94	NIL	NIL	NIL	0.4	NIL	NIL	NIL	NIL
37.76	39.01	1.25	75	NIL	NIL	0.2	NIL	NIL	NIL	NIL
39.25	40.55	1.30	5	NIL	NIL	NIL	NIL	NIL	NIL	NIL
46.80	47.17	0.37	50	NIL	NIL	NIL	NIL	NIL	NIL	NIL
51.38	52.10	0.72	10	NIL	NIL	NIL	NIL	NIL	NIL	NIL
52.10	52.76	0.66	10	NIL	NIL	NIL	NIL	NIL	NIL	NIL

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		greyish to greenish. Deformation and alteration have largely obliterated all signs of bedding and other primary textural features within the mafic-intermediate metavolcanics.											
		.											
		Includes two short rhyolitic intervals from 23.5-24.20, and 27.40-27.90 with foliation parallel contacts. Possibly the very crests of the tight folds.											
		.											
		COMMENTS: No particular increase in veining as contact with felsic volcanics is approached, although wallrocks to veins and inclusions in the area are bleached and noticeably sericitized.											
54.30	66.88	INTERMEDIATE TO FELSIC VOLCANICS	54.90	55.43	0.53	140	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		(Int. to Felsic Volcanics) - light grey to very pale greenish grey	55.43	56.38	0.95	25	NIL	NIL	0.2	NIL	NIL	NIL	NIL
		to very pale pink. Interval consists primarily of fine grained	56.38	57.27	0.89	75	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		dacitic ash crystal tuff, and slightly lesser amount of massive	57.27	57.88	0.61	25	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		aphanitic rhyolite flows. Interval is well fractured particularly	57.88	59.11	1.23	75	NIL	NIL	0.2	NIL	NIL	NIL	NIL
		within rhyolite. Fractures often coated with mm thick chlorite +/-	59.11	60.21	1.10	10	NIL	NIL	0.2	NIL	NIL	NIL	NIL
		Py seams. Unit is well foliated and strongly altered throughout,	60.21	60.53	0.32	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		with nearly all qtz-carbonate veins and stringers exhibiting	60.53	61.01	0.48	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		contorted folds. Significant veining restricted to	61.01	62.16	1.15	75	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		57.30-57.88, with 40-50% vein material, tr Py and weakly Chl-sericite altered contacts and wallrock inclusions.	62.16	62.92	0.76	15	NIL	NIL	NIL	NIL	NIL	NIL	NIL
			62.92	63.39	0.47	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		.	63.39	63.77	0.38	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		ALTERATION: Dacites strongly Fe-carbonate altered with	64.38	65.00	0.62	30	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		amygdaloidal fillings in places, rhyolites are mod.-strongly Fe-carbonate altered, possibly weakly hematized and weakly											

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		sericitized. <1% Py on average for the interval. Dacites are occasionally weakly magnetic, spotted with up to 3-4% fine magnetite over 10-20cm intervals. <1% qtz and Fe-carbonate stringers <2cm wide, and total of approximately 2m of qtz and Fe-carbonate veining, or approximately 15% of the unit.											
		.											
		STRUCTURE: Foliation is 70-80 to CA throughout interval, except where deflected to parallel the contacts of folded veins. Bedding and internal contacts are largely parallel to foliation, although in a few places the two fabrics may diverge by 10-15 degrees.											
		.											
		60.20 to 60.77: 85-90% vein material, tr Py. Appears to be the crest of an open fold, with a single contact cutting the core axis twice. Upper contact 50 to CA. Lower contact at 25-30 to CA; nearly perpendicular to the upper one.											
		.											
		62.97 to 63.78: Single vein with 90-95% rather barren looking qtz. Apparently a fold crest with non-parallel contacts. Upper contact 45 to CA. Lower contact 65 to CA, subparallel to foliation.											
		.											
		64.40 to 65.0: 80% vein material, with some of the Fe-carbonate partially oxidized. Core somewhat broken, but little if any ground.											
		Tr Py, strongly sericitized, with minor chlorite alteration of wallrock and inclusions.											

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
66.88	83.84	MAFIC TO INTERMEDIATE METAVOLCANICS (Maf. to Int. Metavolcanics) - fine to medium grained. Medium green, spotted with up to 35-40% fine to med. grained crystalline Fe-carbonate. Well foliated and strongly altered, but not obviously sheared. Similar to the metavolcanics encountered at depth within holes 96-01 through 96-04, lacking any sizable veins, without any appreciable sulphides, and with only rare stringers to 1cm in width. Consists primarily of massive to amygdaloidal flows, and likely includes some crystal tuff, possibly with fine lapilli now altered to Fe-carbonate. . ALTERATION: Strong pervasive Chl +/- Fe-carbonate alteration. Trace to <1% very fine Py. Below about 76.5m the unit contains 1-2% qtz and Fe-carbonate filling 1-5mm wide randomly oriented fractures. . STRUCTURE: Foliation averages between 70 and 75 to CA, occasionally reaching 65 or 80 to CA. Linear fabric is evident from about 70.85-72.20 with rod-like Fe-carbonate altered stretched lapilli? oriented along a line raking <30 degrees in the plane of foliation.										

Nuinsco Resources Limited

DIAMOND DRILL LOG

PROPERTY: Turtle Tank
HOLE No.: NTT9605

FROM	TO	LITHOLOGICAL DESCRIPTION	FROM	TO	WIDTH	ASSAYS Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
36.00	-43.00	
76.00	-41.00	
83.84	-41.00	

2.17329

Nuinsco Resources Limited

DIAMOND DRILL LOG

-17 Archibald P.Geo
Per C. A. WAGG

PROPERTY: Turtle Tank
HOLE No.: NTT9606
Collar Eastings: 12700.00
Collar Northings: 9875.00
Collar Elevation: 0.00
Grid:
Stored at Nuinsco Resources core shack located

Collar Inclination: -45.00
Grid Bearing: 180.00
Final Depth: 95.43 metres
Ultra Mobile Diamond Drilling Ltd.
in Richardson Township - Lot 6 Conc. III

Logged by: C.A. Wagg
Date: 25/05/96
Down-hole Survey: Acid Test
BQ Core, Claim Number 1050574

FROM	TO	LITHOLOGICAL DESCRIPTION
0	0.35	OVERBURDEN (OVB) -
0.35	27.90	MAFIC METAVOLCANICS (Mafic Metavolcanics) - fine to med. grained. Medium green. Individual units vary from medium grained, massive to weakly foliated flow rocks consisting of 55-65% 1-2mm dark green subhedral amphibole crystals, and 30-40% fine subhedral whitish feldspar, partly altered to calcite -to well foliated, somewhat banded, fine grained rocks of similar composition, but more strongly altered and apparently tuffaceous. . ALTERATION: Weak to strong chloritization and Ca +/- Fe-carbonate alteration, best developed within foliated rocks of probable tuffaceous origin. Trace-1% fine disseminated Py. . STRUCTURE: Foliation 60-65 to CA. Contacts between individual flows appear to be foliation parallel. . .35 to 7.6: Medium grained massive interval with a deeply weathered 20cm section at 3.36m, possibly a vesicular interflow contact subsequently deformed and altered. . 7.6 to 12.31: Fine-med. grained mafic crystal tuff. Very

ASSAYS

FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
16.15	16.43	0.28	105	300	NIL	0.2	NIL	NIL	NIL	NIL
17.81	18.29	0.48	240	315	NIL	0.2	NIL	NIL	NIL	NIL
22.88	23.45	0.57	5	200	NIL	0.2	NIL	NIL	NIL	NIL
25.20	25.46	0.26	5	120	NIL	0.6	NIL	NIL	NIL	NIL

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS										
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		well foliated to moderately sheared. . ALTERATION: Strong pervasive chlorite-calcite alteration. . STRUCTURE: Foliation 65 to CA; 60 degrees only at contact with underlying unit. . 12.31 to 27.9: Fine to medium grained mafic flow rocks. Moderately foliated and somewhat finer above about 16.80. Includes a 10cm wide foliation parallel qtz veinlet with tr Py at 25.30m. . ALTERATION: Mod.-strong calcite alteration of feldspar, amphiboles fresh. From 16.80-26.50, calcite is absent except along fractures, and feldspar is altered to epidote-rich sausserite. . STRUCTURE: Below 22.90 unit is moderately fractured -5 to 10 pre metre- with qtz-calcite +/- chlorite, Py fillings generally .5cm wide. Wallrock chloritized for up to 1cm. Fractures randomly oriented.										
27.90	95.40	SHEARED MAFIC METAVOLCANICS (Sheared Mafic Metavolcanics) - medium to light green. Strongly altered. Difficult to discern whether or not the boundary of the deformation zone is coincident with a lithological contact. From 27.90 to about 29.0, the zone progresses	27.94	28.61	0.67	305	570	NIL	0.2	NIL	NIL	NIL	NIL
			28.61	29.26	0.65	300	940	NIL	0.4	NIL	NIL	NIL	NIL
			29.26	30.01	0.75	140	193	NIL	1.2	NIL	NIL	NIL	NIL
			32.08	32.97	0.89	70	2450	NIL	2.0	NIL	NIL	NIL	NIL
			32.97	33.56	0.59	925	600	NIL	0.4	NIL	NIL	NIL	NIL

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS									
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		from a breccia-like margin with weakly aligned subangular	33.56	34.16	0.60	20	305	NIL	0.4	NIL	NIL	NIL	NIL
		cm diameter and smaller undeformed "blocks," separated	34.16	34.95	0.79	25	370	NIL	0.4	NIL	NIL	NIL	NIL
		by mm thick chloritic "matrix." Gradually the blocks decrease	34.95	36.07	1.12	1550	590	NIL	0.4	NIL	NIL	NIL	NIL
		in size and become augen or lens shaped, so that at 29.0m,	36.07	37.32	1.25	35	44	NIL	0.2	NIL	NIL	NIL	NIL
		the rock is best described as having an anastomosing shear	37.32	38.16	0.84	435	5300	NIL	0.4	NIL	NIL	NIL	NIL
		fabric with chloritized shear surfaces enveloping Ca and	38.16	39.36	1.20	200	430	NIL	0.6	NIL	NIL	NIL	NIL
		Fe-carbonate replaced lenticles of less sheared rock, which	39.36	40.15	0.79	15	63	NIL	0.4	NIL	NIL	NIL	NIL
		measure 1-2mm x 5-8mm.	40.15	41.06	0.91	95	1800	NIL	2.6	NIL	NIL	NIL	NIL
		.	41.06	41.79	0.73	15	285	NIL	0.2	NIL	NIL	NIL	NIL
		ALTERATION: Strong to intense chlorite-calcite +/- Fe-carbonate	41.79	42.86	1.07	10	205	NIL	0.4	NIL	NIL	NIL	NIL
		alteration. Tr Py, Mt in places. 1-2% Cp over 10cm in bleached	42.86	44.13	1.27	20	230	NIL	0.4	NIL	NIL	NIL	NIL
		rock adjacent to a small unremarkable qtz-calcite filled fracture at	44.13	45.13	1.00	600	310	NIL	0.4	NIL	NIL	NIL	NIL
		27.90m.	45.13	45.61	0.48	NIL	11	NIL	0.6	NIL	NIL	NIL	NIL
		.	45.61	45.91	0.30	60	65	NIL	1.0	NIL	NIL	NIL	NIL
		Possibly a mafic crystal tuff below about 29.75.	45.91	47.11	1.20	75	480	NIL	0.6	NIL	NIL	NIL	NIL
		.	47.11	48.15	1.04	30	57	NIL	0.2	NIL	NIL	NIL	NIL
		STRUCTURE: Shearing 65-70 to CA.	48.15	49.12	0.97	20	115	NIL	0.4	NIL	NIL	NIL	NIL
		.	49.12	49.74	0.62	1180	35	NIL	NIL	NIL	NIL	NIL	NIL
		33.08 to 33.27: Light to med. grey chert bed.	49.74	50.22	0.48	30	6	NIL	0.2	NIL	NIL	NIL	NIL
		.	50.22	50.79	0.57	80	NIL	NIL	0.4	NIL	NIL	NIL	NIL
		ALTERATION: 1% fine Py along fractures.	50.79	51.20	0.41	NIL	NIL	NIL	0.4	NIL	NIL	NIL	NIL
		.	51.20	52.16	0.96	75	NIL	NIL	0.2	NIL	NIL	NIL	NIL
		STRUCTURE: Contacts appear to parallel shearing at 70 to CA.	52.16	53.04	0.88	5	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		.	53.04	53.66	0.62	10	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		33.27 to 34.75: Strongly colour banded. Probably fragmental.	53.66	53.97	0.31	10	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		.5-1cm thick strongly flattened clasts. Includes a 15cm thick	53.97	54.85	0.88	50	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		bed of chert at 33.80.	54.85	55.77	0.92	5	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		.	55.77	56.59	0.82	10	NIL	NIL	0.2	NIL	NIL	NIL	NIL

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS									
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		ALTERATION: Spotted with up to 25% fine crystalline	56.59	57.81	1.22	75	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		Fe-carbonate below 34.75. Minor sericite appears	57.81	58.82	1.01	25	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		to be present along with chlorite and Ca and Fe-carbonate	62.57	63.27	0.70	75	NIL	NIL	0.2	NIL	NIL	NIL	NIL
		below 37.0m.	64.02	64.92	0.90	10	NIL	NIL	0.2	NIL	NIL	NIL	NIL
		.	64.92	65.47	0.55	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		STRUCTURE: Shear 65-70 to CA.	65.47	66.18	0.71	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		.	75.17	75.82	0.65	75	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		COMMENTS: Contacts essentially obscured by shearing and	75.82	76.60	0.78	10	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		alteration below this point except for strongly contrasting	76.60	77.32	0.72	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		rock types.	77.32	77.67	0.35	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		.	77.67	78.23	0.56	30	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		40.20: 2-3cm thick bed of fine med.-light grey dacitic? ash.	78.23	79.35	1.12	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		Contacts parallel to shear fabric.	79.35	80.85	1.50	NIL	NIL	NIL	0.4	NIL	NIL	NIL	NIL
		.	80.85	82.33	1.48	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		ALTERATION: 1% fine Py present on average below this	82.33	82.70	0.37	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		point, mostly as coatings along foliation/shear planes.	82.70	83.12	0.42	5	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		Shearing 60 to CA at 40.5m.	83.12	84.22	1.10	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		.	84.22	85.67	1.45	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		40.85 to 41.35: 10% qtz-calcite stringers up to 2cm wide,	85.67	87.15	1.48	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		primarily foliation parallel.	87.15	88.40	1.25	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		.	88.40	89.55	1.15	20	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		ALTERATION: 3-4% fine disseminated Mt. over 15cm	89.55	90.48	0.93	20	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		at centre of interval.	90.48	90.91	0.43	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		.	90.91	91.42	0.51	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		43.50 to 43.75: 1-2% fine-med. grained disseminated Py.	91.42	91.92	0.50	25	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		.	91.92	92.64	0.72	5	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		44.50: A few 2-3mm qtz eyes present over 10cm.	92.64	93.31	0.67	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		.	93.31	93.87	0.56	15	NIL	NIL	NIL	NIL	NIL	NIL	NIL

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS									
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		45.12 to 45.90: 10% foliation parallel to contorted qtz stringers.	93.87	94.58	0.71	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		.											
		ALTERATION: Minor Fe-carbonate within stringers. 2-3% fine to coarse Py.											
		.											
		49.0 to 54.75: 10-15% qtz and whitish Fe-carbonate stringers, fracture fillings, and veinlets. Brecciated, and strongly altered to grey and brownish tones from 49.60-54.30.											
		.											
		ALTERATION: Strongly chloritized at margins. Brecciated central section is strongly silicified with locally abundant very fine brownish Fe-carbonate within altered hostrock. Tr-1% fine Py. Tourmaline occurs as mm thick coatings along the contacts of some veinlets and along fractures. It is most abundant at 50.3 where small masses of fine crystals occur within <1cm wide breccia fillings.											
		.											
		STRUCTURE: Shearing 65-70 to CA, rarely to 60, partially overprinted within strongly brecciated and silicified areas.											
		.											
		55.70 to 58.75: Well colour banded, bedded at 60-65 to CA. Shearing appears weaker. Tuffaceous, possibly fragmental in part; with a bondinaged cm thick chert bed -or possibly fragments- at 56.13m. Also two lense-like Py-calcite "clasts" <1cm thick at 58.3.											
		.											
		58.75 to 62.65: Top 50cm transitional in appearance. Probably											

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS								
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		weakly sheared flow margin. Below 59.60 apparently a fine grained massive flow.											
		.											
		ALTERATION: Spotted with 20-25% up to 1mm diameter crystalline Fe-carbonate, tr Py.											
		.											
		STRUCTURE: Well foliated at 65 to CA, rarely to 60 or 70. Does not appear sheared.											
		.											
		62.25 to 75.25: Moderately sheared crystal tuffs spotted with fine to very fine Fe-carbonate at levels of 10-15%.											
		.											
		ALTERATION: Tr-1% Py. <1% qtz-carbonate stringers.											
		.											
		STRUCTURE: Very well foliated at 60-70 to CA, but appears only weakly-mod. sheared.											
		.											
		72.95 to 95.4: Strongly banded with relatively abundant qtz-carbonate stringers, often contorted or bondinaged. Tuffaceous, possibly fragmental in part. Contains a few 1-2cm thick beds of grey ash over 10-15cm at 75.95. 75.35-75.75, 20-25% qtz-carbonate stringers with sericitized wallrock and several percent tourmaline within contorted veinlets. 77.35-77.7, 70% qtz-carbonate veining with 3-4% tourmaline, minor sericite.											
		.											
		ALTERATION: 5-10% qtz-carbonate stringers and veinlets as well as strong pervasive chlorite-calcite alteration throughout											

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		remainder of hole. 1% fine Py.											
		.											
		STRUCTURE: Strongly banded and moderately to strongly sheared in appearance to end of hole. Shearing 65-70 to CA, to 75 degrees only at about 88.7m.											

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
95.43	-40.00	

2.17320

E.J. Archibald P.Geo
Dr C.A. WAGG

Nuinsco Resources Limited

DIAMOND DRILL LOG

PROPERTY: Turtle Tank
HOLE No.: NTT9607
Collar Eastings: 11637.00
Collar Northings: 9575.00
Collar Elevation: 0.00
Grid:
Stored at Nuinsco Resources core shack located

Collar Inclination: -50.00
Grid Bearing: 180.00
Final Depth: 121.00 metres
Ultra Mobile Diamond Drilling Ltd.
in Richardson Township - Lot 6 Conc. III

Logged by: C.A. Wagg
Date: 00/08/96-05/08/96
Down-hole Survey: Acid Test
BQ Core, Claim Number 1050815

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm
0.0	4.3	OVERBURDEN (OVB)								
4.3	9.82	MAFIC TUFF (Maf Tuff Alt'd) Medium green, fine to med. grained, and spotted with 20-40% fine iron-carbonate. Strongly chloritized. 5% <2 cm wide qtz-carbonate stringers, foliation parallel to crosscutting and contorted,occasionally with minor py +/- tr cpy. Very well foliated and apparently sheared at between 50 and 65 deg to the CA.	4.83	5.03	0.20	10	80	110	NIL	NIL
			5.83	5.93	0.10	55	230	106	NIL	NIL
			5.93	6.50	0.57	15	93	110	NIL	NIL
			8.15	8.56	0.41	5	147	87	NIL	NIL
		9.82 to 10.9 FELSIC ASH TUFF (Fels Ash Tuff) Beige to whitish, streaked to laminated with mm-wide bands of partially oxidized fe-carb. Possibly flow rocks, as are the mafic units, however present appearance is suggestive of recrystallized weakly sheared pyroclastics. Moderately sericitized, with tr very fine py occurring along with fe-carb fillings. Top contact is fol. parallel at ~55 deg to the CA. Lower contact is broken and slightly ground, but appears fol. parallel at 50 deg to CA.									
		12.0 to 12.43 FELSIC ASH TUFF (Fels Ash Tuff)								

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm
		Similar to the interval from 9.82-10.9m, but with contacts at 60 and 55 deg to the CA respectively.								
		13.6 to 13.85 (Fels Ash Tuff) Similar to previous subunits, with contacts at 60 and 50 deg to the CA.								
		Lower contact of the mafic unit, and the local foliation, are at 45 deg to the CA.								
15.16	19.2	FELSIC ASH AND FINE CRYSTAL TUFF (Fels Ash/Xtal Tuff fg) Beige to pale grey. fine to very fine grained. Felsic to rhyolitic ash tuff above 16.6m, grading into a fine intermed. to felsic crystal tuff with up to 1% <1mm qtz eyes and flecked with about 10% very fine chlorite. Trace very fine diss. py. Includes 30 cm with dense ptygmatically folded fe-carb fracture fillings to 5mm wide at 16.75m. Upper contact is fol. parallel, lower contact is crosscutting, near perpendicular to fol., and weakly undulatory at about 45 deg to the CA. 5% med. to coarse py occurs over 10-15 cm above lower contact.								
19.2	22.2	MAFIC TUFF (Maf Tuff Alt'd) Similar to the interval from 4.3-15.16m, but spotted with 3-4% fine magnetite. Very well foliated at 60-65 deg to the CA. Includes a few 1-2cm wide qtz-carb veinlets and several <1cm	19.31	19.41	0.10	NIL	27	92	NIL	NIL
			19.63	19.78	0.15	NIL	26	72	NIL	NIL
			20.80	20.91	0.11	10	29	72	NIL	NIL
			21.10	21.29	0.19	20	100	82	NIL	NIL

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm
		wide parallel to the fol. just above lower contact. Foliation is 50-55 deg at the lower contact. Contact is 35-40 deg to the CA, subparallel to foliation.								
22.2	67.2	FELSIC ASH TUFF AND RHYOLITE (Fels Ash Tuff + Rhy)	26.83	27.14	0.31	20	5	26	NIL	2
		Similar to the interval from 9.82-10.9m for the most part,	27.85	28.58	0.73	15	137	162	NIL	2
		with some very fine grained, evenly coloured, silica sections	32.33	32.60	0.27	NIL	1	17	NIL	NIL
		which may be massive rhyolite flows.	33.47	33.73	0.26	45	500	28	0.2	NIL
		Strongly fe-carb altered, and moderately-strongly sericitized,	34.07	34.29	0.22	140	430	123	0.2	NIL
		more weakly within rhyolitic sections. Trace py is not	34.29	34.45	0.16	75	300	72	0.2	NIL
		uncommon, tr cpy less so, most from fillings. Qtz stringers	34.45	34.69	0.24	20	114	72	NIL	NIL
		are common (over 5%) only from 27.9-28.6m and within a few	34.69	34.86	0.17	NIL	13	172	0.2	NIL
		subunits.	35.15	35.36	0.21	15	19	89	0.2	NIL
			35.84	35.90	0.06	2830	69	62	0.6	NIL
		33.18 to 33.56 INTERMED. CRYSTAL TUFF (Int Xtal Tuff fg)	36.62	36.67	0.05	15	2	17	NIL	NIL
		Light greenish grey, fine grained, spotted with 15-20% fine chl	37.36	37.50	0.14	15	29	22	NIL	NIL
		and containing 1-2% fine py. Moderately fe-carb and ser alt'd.	37.70	37.76	0.06	10	64	15	NIL	NIL
		Contacts are foliation parallel.	37.76	37.88	0.12	120	187	33	0.2	NIL
			37.88	38.03	0.15	15	142	35	NIL	NIL
		34.18 to 36.7 (Maf Tuff Alt'd)	41.71	41.81	0.10	5	1	26	NIL	NIL
		Similar to the interval from 4.3-15.16m. 20% qtz stringers	43.11	43.16	0.05	NIL	8	27	NIL	NIL
		over the uppermost 50 cm.	43.68	43.94	0.26	NIL	16	435	0.2	3
		Upper contact is crosscutting at 70-75 deg to the CA. Lower	47.69	48.08	0.39	NIL	20	800	NIL	NIL
		contact is fol. parallel, coincident with a cm-wide stringer at	48.08	48.21	0.13	NIL	2	65	NIL	NIL
		50-55 deg to the CA.	50.73	51.01	0.28	NIL	12	255	NIL	NIL
			52.34	53.00	0.66	NIL	7	88	0.2	NIL
		43.95 to 44.73 (Int-Fels Xtal Tuff)	56.00	56.10	0.10	10	122	96	0.2	NIL

FROM	TO	LITHOLOGICAL DESCRIPTION
		Similar to the section from 33.18-33.56m. Moderately fe-carb and ser altered, and weakly chloritized, with tr py. Contacts are fol. parallel. Foliation varies from 45-60 deg to the CA.
		Similar intervals to the preceding subunit occur from 50.18-51.45m and from 57.0-58.3m.
		65.42 to 65.7 (Maf Tuff alt'd) Similar to the interval from 4.3-15.16m. Contacts appear fol. parallel for the most part, but show evidence of having been modified by shearing.
		66.15 to 65.57 Similar to the preceding subunit.
67.2	121.31	MAFIC TUFF (Maf Tuff) Similar to the interval from 4.3-15.16m. Strongly altered and very well foliated. Probably tuffaceous for the most part. Upper contact is fol. parallel at ~60 deg to the CA. Fol. is commonly 60-65 deg to the CA above about 108m, and 65-70 deg to the CA below that.
		77.0 to 82.1 15-25% qtz+fe-carb veinlets, with most parallel to subparallel to fol. Trace py, less common cpy. Includes a 1.2m long section of brecciated felsic ash tuff, now 60-70% vein material, beginning at 79.05m.

			ASSAYS				
FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm
57.45	57.81	0.36	25	260	80	0.3	NIL
57.81	58.46	0.65	15	187	91	0.2	NIL
58.46	58.60	0.14	NIL	5	12	NIL	NIL
58.60	58.94	0.34	NIL	26	14	NIL	NIL
58.94	59.10	0.16	10	1	9	NIL	NIL
59.31	59.55	0.24	40	112	17	0.2	NIL
59.67	59.96	0.29	NIL	25	23	NIL	NIL
64.91	65.02	0.11	NIL	13	42	0.2	NIL
65.23	65.43	0.20	NIL	28	29	NIL	NIL
67.56	67.85	0.29	NIL	32	91	NIL	NIL
69.37	69.99	0.62	10	50	97	NIL	NIL
72.31	72.63	0.32	NIL	12	83	NIL	NIL
72.63	73.08	0.45	NIL	9	131	NIL	NIL
73.08	73.42	0.34	15	NIL	63	NIL	NIL
73.42	73.81	0.39	NIL	NIL	139	NIL	NIL
73.81	73.96	0.15	NIL	3	115	NIL	NIL
73.96	74.74	0.78	NIL	24	114	NIL	NIL
74.74	74.95	0.21	5	20	106	NIL	NIL
74.95	75.96	1.01	15	38	114	NIL	NIL
75.96	76.26	0.30	15	22	84	NIL	NIL

FROM	TO	LITHOLOGICAL DESCRIPTION
		81.6 to 82.65 Frequently laminated with 1-3 cm thick beds of felsic ash tuff, somewhat distorted by shearing at 70-85 deg to the CA. Sericitized and fe-carb altered.
		Possibly amygdaloidal or originally feldspar-phyric in places from about 87.5-101m, with med. sized fe-carb+/-qtz "augens" at levels to 5-10% over 10-50cm intervals. Also spotted with up to 5% fine to med. grained diss. magnetite.
		112.5 to 121.33 Banded with mm to cm-wide fe-carb rich zones parallel to foliation. Shear-parallel replacement or dilation zone fillings, with strong brecciation and intense replacement over 5-7cm at 116.0 and over 15-18 cm at 118.1m. Foliation is 70-75 deg to the CA.

			ASSAYS				
FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm
76.26	77.07	0.81	5	47	115	NIL	NIL
77.07	77.31	0.24	10	4	127	NIL	NIL
77.31	77.93	0.62	50	20	78	NIL	NIL
77.93	78.13	0.20	5	8	55	NIL	NIL
78.13	78.32	0.19	5	5	180	NIL	NIL
78.32	78.45	0.13	NIL	5	69	NIL	NIL
78.45	78.84	0.39	25	7	150	NIL	NIL
78.84	79.09	0.25	15	17	45	NIL	NIL
79.09	79.41	0.32	15	18	160	NIL	NIL
79.41	79.62	0.21	5	1	5	NIL	NIL
79.62	80.18	0.56	10	6	35	NIL	NIL
80.18	80.50	0.32	NIL	11	23	NIL	NIL
80.50	80.69	0.19	NIL	20	36	NIL	NIL
80.69	80.83	0.14	5	2	47	NIL	NIL
80.83	81.47	0.64	NIL	4	118	NIL	NIL
81.47	81.93	0.46	10	66	112	NIL	4
81.93	82.34	0.41	5	3	74	NIL	NIL
82.34	82.98	0.64	20	159	56	NIL	NIL

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
60.96	-50.00	
121.00	-50.00	

2.17320

Nuinsco Resources Limited

DIAMOND DRILL LOG

E.J. Archibald P.Geo
Per C.A. WAGG

PROPERTY: Turtle Tank
HOLE No.: NTT9608
Collar Eastings: 11675.00
Collar Northings: 9575.00
Collar Elevation: 0.00
Grid:
Stored at Nuinsco Resources core shack located

Collar Inclination: -50.00
Grid Bearing: 180.00
Final Depth: 106.00 metres
Ultra Mobile Diamond Drilling Ltd.
in Richardson Township - Lot 6 Conc. III

Logged by: C.A. Wagg
Date: 00/08/96-10/08/96
Down-hole Survey: Acid Test
BQ Core, Claim Number 1050815

FROM	TO	LITHOLOGICAL DESCRIPTION
0.0	4.35	OVERBURDEN (OVB)
4.3	28.32	MAFIC TUFF (Maf Tuff alt'd) Probably tuffaceous for the most part. Medium green, fine to med. grained, and spotted with 10-40% fine calcite. Strongly chloritized. 5-7% <2 cm wide qtz-calcite stringersand calcite-rich fracture fillings, foliation parallel to subconcordant. Trace py is common, and up to 5% med grained py occurs in places over 10-15cm intervals. Very well foliated and apparently sheared at between 40 and 60 deg to the CA, commonly 40-45 deg above 24.25m. 24.25 to 26.12 Finer grained, slightly less altered and deformed than preceding rocks, and possibly a massive flow. Unit may have fractured rather than sheared. Contacts are fol. parallel. Fol. is consistently 55-65 deg to the CA. Iron-carbonate rather than calcite alteration occurs below 26.12m

ASSAYS

FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm

FROM	TO	LITHOLOGICAL DESCRIPTION
28.32	74.15	INTERMEDIATE TO FELSIC TUFF + RHYOLITE (Int-Fels Tuff+Rhy)
		Composed of three subunits:
		Int-Fels Xtal Tuff, broadly dacitic, which is a greenish grey,
		typically spotted with 10-20% very fine chl+/-amph aggregates,
		and often banded on a cm scale or interbedded with Fels Ash.
		Fels Ash Tuff, which is grey-white, very fine grained,
		generally weakly banded and exhibits fe-carb alteration +/-
		sericite along bedding or shear planes.
		Rhyolite, which is a creamy white, aphanitic, and appears to
		be unaltered and undeformed aside from fracturing.
		Repetitions of the three units may be due to isoclinal folding.
		28.32 to 29.9 (Int-Fels Xtal Tuff)
		Upper contact is 60-65 deg to the CA. Upper contact ~75 deg
		to the CA. Foliation is variable but is most commonly 55-60
		deg to the CA. 1-2% fine diss. py.
		29.9 to 30.74 (Rhy)
		Alteration appears to be restricted to mm-wide fe-carb fillings
		along fol. parallel to subparalel fractures. Trace py.
		Upper contact is "crennulated" to ptygmatically folded, and
		averages about 25 deg to the CA. Lower contact is at about 55
		deg to the CA, nearly perpendicular to the foliation.
		30.74 to 31.9 (Int-Fels Xtal Tuff)
		Strong fe-carb, chl, and ser alteration with 1-2% py.
		31.9 to 34.62 (Rhy + Fels Ash Tuff)

		ASSAYS					
FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm
41.22	41.78	0.56	5	5	102	NIL	8
42.94	43.20	0.26	900	6000	570	11.6	14
43.20	43.39	0.19	15	350	143	0.4	11
43.39	43.69	0.30	10	41	33	NIL	NIL
43.88	44.33	0.45	NIL	66	183	NIL	2
44.33	44.63	0.30	NIL	4	24	NIL	NIL
44.63	44.95	0.32	NIL	NIL	22	NIL	NIL
44.95	45.13	0.18	80	3	22	NIL	NIL
45.13	45.39	0.26	NIL	5	12	NIL	NIL
45.39	45.94	0.55	10	55	16	NIL	NIL
45.94	46.30	0.36	10	141	59	NIL	NIL
46.30	46.50	0.20	10	53	300	NIL	6
46.50	46.85	0.35	5	34	197	NIL	2
46.85	47.61	0.76	10	280	38	0.2	NIL
47.61	48.30	0.69	30	660	58	0.7	NIL
48.30	48.92	0.62	30	205	33	0.2	NIL
48.92	49.16	0.24	90	29	28	0.2	30
49.16	49.56	0.40	50	410	68	0.6	6
49.56	49.69	0.13	5	6	27	NIL	2
49.84	49.98	0.14	2400	139	40	0.2	20
49.98	50.06	0.08	2630	315	98	0.3	11
51.80	52.95	1.15	25	32	180	NIL	NIL
52.95	53.26	0.31	40	290	62	0.2	NIL
53.26	53.74	0.48	15	340	41	0.4	NIL
53.74	54.11	0.37	10	154	35	NIL	NIL
54.11	54.45	0.34	NIL	1	3	NIL	NIL
54.45	54.72	0.27	5	14	51	NIL	NIL
54.72	54.86	0.14	NIL	2	3	NIL	NIL

FROM	TO	LITHOLOGICAL DESCRIPTION
		Moderate fe-carb and weak ser alteration
		34.62 to 36.0 (Int-Fels Xtal Tuff)
		Sediment in part? Strongly sheared and chlorite rich at 35.4m.
		Qtz-carb stringers are common within top half of unit.
		Strong fe-carb, chl, and ser alteration, with 1-2% diss. py.
		36.0 to 36.83 (Rhy)
		Contacts are fol. parallel at 55-60 and 45-50 deg to the CA.
		36.83 to 38.9 (Rhy, Xtal + Ash Tuff)
		Interbedded on a 10-30 cm scale. Foliation is about 45-60 deg to the CA. Contacts are indistinct (fuzzy) and appear to be at higher angles to the CA than is foliation.
		38.9 to 62.80 (Rhy + Fels Ash Tuff/q-cb veins)
		Foliation and fracturing are predominantly at 55-65 deg to CA. Trace py mostly from veins, lesser cpy. Mod. ser and abundant fe-carb fracture fillings. Abundant veining from 43-57m. 30-35 cm core length vein at 59.5m subconcordant at about 45 deg to the CA. Includes an 80cm thick section of Int-Fels Xtal Tuff starting at 60.4m, with fol. parallel contacts.
		62.8 to 74.15 (Rhy + Int-Fels Xtal Tuff)
		Interbedded on a 0.25-1.25m scale, with some compositionally graded beds toward the bottom of the sequence. Intense fe-carb alteration at the top and bottom of the subunit. Tr-1% py.

			ASSAYS				
FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm
54.86	55.24	0.38	NIL	3	8	NIL	NIL
55.24	55.59	0.35	NIL	5	34	NIL	NIL
55.59	56.49	0.90	NIL	4	13	NIL	NIL
56.49	56.73	0.24	NIL	2	8	NIL	NIL
56.73	56.88	0.15	NIL	15	12	NIL	5
56.88	57.03	0.15	NIL	3	18	NIL	4
58.43	58.66	0.23	20	92	20	NIL	4
58.66	58.82	0.16	5	23	13	NIL	4
58.82	59.15	0.33	20	145	18	NIL	3
59.15	59.51	0.36	5	101	33	NIL	3

FROM	TO	LITHOLOGICAL DESCRIPTION	FROM	TO	WIDTH	ASSAYS Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm
		Fol. is consistent at 60-65 deg to CA, parallel to contacts.								
74.15	106.68	MAFIC TUFF (Maf Tuff alt'd)	79.10	79.27	0.17	NIL	84	24	NIL	4
		Similar to the interval from 4.35-28.32m, but with strong	80.94	81.10	0.16	NIL	4	111	NIL	2
		fe-carb rather than calcite alteration. 2-3 cm-wide qtz-carb	81.40	81.50	0.10	NIL	5	117	NIL	3
		stringers per metre, most fol. parallel.	86.11	86.25	0.14	10	51	36	NIL	2
			87.70	87.90	0.20	NIL	20	250	NIL	13
		79.2 to 80.35 (Fels Ash Tuff)	88.14	88.28	0.14	NIL	5	68	NIL	1
		With mod. fe-carb alteration as fracture fillings, tr-1% fine	88.28	88.60	0.32	20	3	125	NIL	NIL
		diss py, and cpy within fol. parallel qtz stringer at 79.7m.	88.60	88.73	0.13	NIL	56	69	NIL	NIL
		Contacts parallel fol., but appear to have been modified	88.83	89.25	0.42	NIL	5	54	NIL	2
		by shearing.	89.25	89.63	0.38	NIL	16	103	NIL	NIL
			90.30	90.45	0.15	70	122	75	NIL	NIL
		Contacts are distinguishable between mafic flows at	90.71	90.79	0.08	NIL	4	30	NIL	NIL
		80.63 and 86.03m at 65 and 55 deg to CA respectively.	91.44	91.53	0.09	NIL	96	118	NIL	NIL
			91.73	91.86	0.13	NIL	199	66	NIL	NIL
		83.1 to 86.25 (Int-Fels Xtal/Fels Ash Tuff)	92.33	92.42	0.09	NIL	28	58	NIL	NIL
		Weakly sericitized, and strongly fe-carb altered, with up to	92.42	96.39	3.97	30	285	54	0.3	NIL
		1% py.	96.39	96.53	0.14	15	20	92	NIL	NIL
			96.53	96.73	0.20	10	14	173	NIL	NIL
		92.0 to 96.6 (Int-Fels Xtal Tuff)	96.73	96.95	0.22	5	78	23	NIL	2
		Similar to previous sections of this subunit. Weak to mod.	96.95	97.08	0.13	10	4	18	NIL	2
		sericite and strong fe-carb alt. Foliation and contacts are	97.08	97.47	0.39	165	1750	33	0.3	NIL
		60-65 deg to the CA.	97.47	97.53	0.06	100	136	33	NIL	NIL
			97.53	97.69	0.16	65	205	73	NIL	NIL
		102.02 to 105.45 (Int-Fels Ash Tuff)	97.69	97.82	0.13	30	113	50	NIL	NIL
		Light grey green to pale pink. Faintly bedded in places,	98.52	98.76	0.24	40	23	140	NIL	NIL

FROM	TO	LITHOLOGICAL DESCRIPTION	FROM	TO	WIDTH	ASSAYS Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm
		with strong fe-carb and weak to mod. chl and ser alteration.	98.76	98.83	0.07	20	46	48	NIL	NIL
		Trace to 1% very fine py. top contact fol. parallel at 75 deg	98.83	98.94	0.11	5	31	143	NIL	NIL
		to the CA. Lower contact near perpendicular to fol. at about	98.94	99.01	0.07	150	183	78	NIL	NIL
		40 deg to the CA.	99.01	99.27	0.26	25	29	155	NIL	NIL
			99.27	99.35	0.08	360	5200	73	NIL	NIL
		Mafic unit at end of hole is strongly fe-carb and chl altered,	99.35	99.51	0.16	30	205	73	NIL	NIL
		with tr py. Very well foliated at 70-75 deg to the CA.	99.51	99.59	0.08	95	1450	44	0.2	NIL
			99.59	99.68	0.09	10	28	115	NIL	NIL
			99.68	99.75	0.07	45	131	84	NIL	NIL
			99.75	99.84	0.09	10	145	105	NIL	NIL
			99.84	100.02	0.18	30	198	68	NIL	NIL

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
60.96	-50.00	
106.00	-50.00	

2.17320

Nuinsco Resources Limited

DIAMOND DRILL LOG

Ref Mitchell P. Geo
Per C.A. Wagg

PROPERTY: Turtle Tank
HOLE No.: NTT9609
Collar Eastings: 12600.00
Collar Northings: 9875.00
Collar Elevation: 0.00
Grid:
Stored at Nuinsco Resources core shack located

Collar Inclination: -50.00
Grid Bearing: 180.00
Final Depth: 107.00 metres
Ultra Mobile Diamond Drilling Ltd.
in Richardson Township - Lot 6 Conc. III

Logged by: C.A. Wagg
Date: 00/08/96-01/08/96
Down-hole Survey: Acid Test
BQ Core, Claim Number 1050574

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm
0.0	6.25	OVERBURDEN (OVB)							
6.25	21.2	MAFIC FLOW? + TUFF (Maf Flow+Tuff) Mottled medium to dark green, medium grained. Containing about 40-70% dark green amphibole, rarely exceeding 2mm, and 30-60% greenish white fine fsp and similarly coloured fine alteration products. Apparently an amphibolitized mafic flow. Moderately to strongly chloritized, with mod. sausseritization of fsp. Calcite is restricted to fracture fillings, and tr py occurs only in places usually associated with 1-2cm wide qtz-calc stringers. Moderately well foliated at 45-60 deg to the CA. 19.78 to 21.2 Fine grained and well foliated. Possibly a weakly graded tuff, slightly finer grained and more mafic at the top of the section. Top contact and foliation are at ~50 deg to the CA, decreasing to 40-45 deg at the lower contact.							
21.2	28.70	MAFIC CRYSTAL TUFF (Maf Xtal Tuff bdd) Medium green, fine grained, well bedded. Commonly with about 5% mm and smaller qtz eyes, and flecked with 2-3% fine yellow-							

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm
		white metamorphic epidote? Strong chl and lesser calc alteration, with strong ep alt. over 10cm adjacent to a fracture at 27.8m. Trace py. Foliation is typically 45 deg to the CA, as is lower contact.							
28.7	48.26	MAFIC FLOW? (Maf Flow) Similar to the interval from 6.25-21.2m, but slightly finer grained and commonly with 5% fine qtz eyes. Non-banded and only moderately foliated, so presumed to be flow rocks. Mod. to strong chl, sauss, and weak calc alteration. Tr hem occurs in places with calcite along hairline fractures. Well fol. only over the lowermost 50cm of the interval at 45-50 deg to the CA.							
48.26	66.25	MAFIC TUFF (Maf Tuff alt'd) Probably tuffaceous for the most part. Similar to 21.2-28.7m. Medium green, fine to med. grained, often spotted with very fine calcite. Strongly chloritized. 1-2% <1 cm wide qtz-calcite stringers and calcite-rich fracture fillings, almost solely foliation parallel. Tr-1% fine py along fol. planes. Prominently fe-carb alt. over 60-70cm at 52.15m Very well foliated and apparently sheared at about 40 deg to the CA, with strong kinking at the top of the carb alt. zone. 57.75 to 62.85 Strongly to intensely fe-carb altered interval with a few cm-thick beds of int.-felsic ash at 58.0m, and with	58.40	59.50	1.10	195	NIL	NIL	NIL
			59.50	60.90	1.40	10	NIL	NIL	NIL
			60.90	61.95	1.05	NIL	NIL	NIL	NIL
			61.95	62.90	0.95	15	NIL	NIL	NIL
			64.49	64.92	0.43	10	29	124	NIL

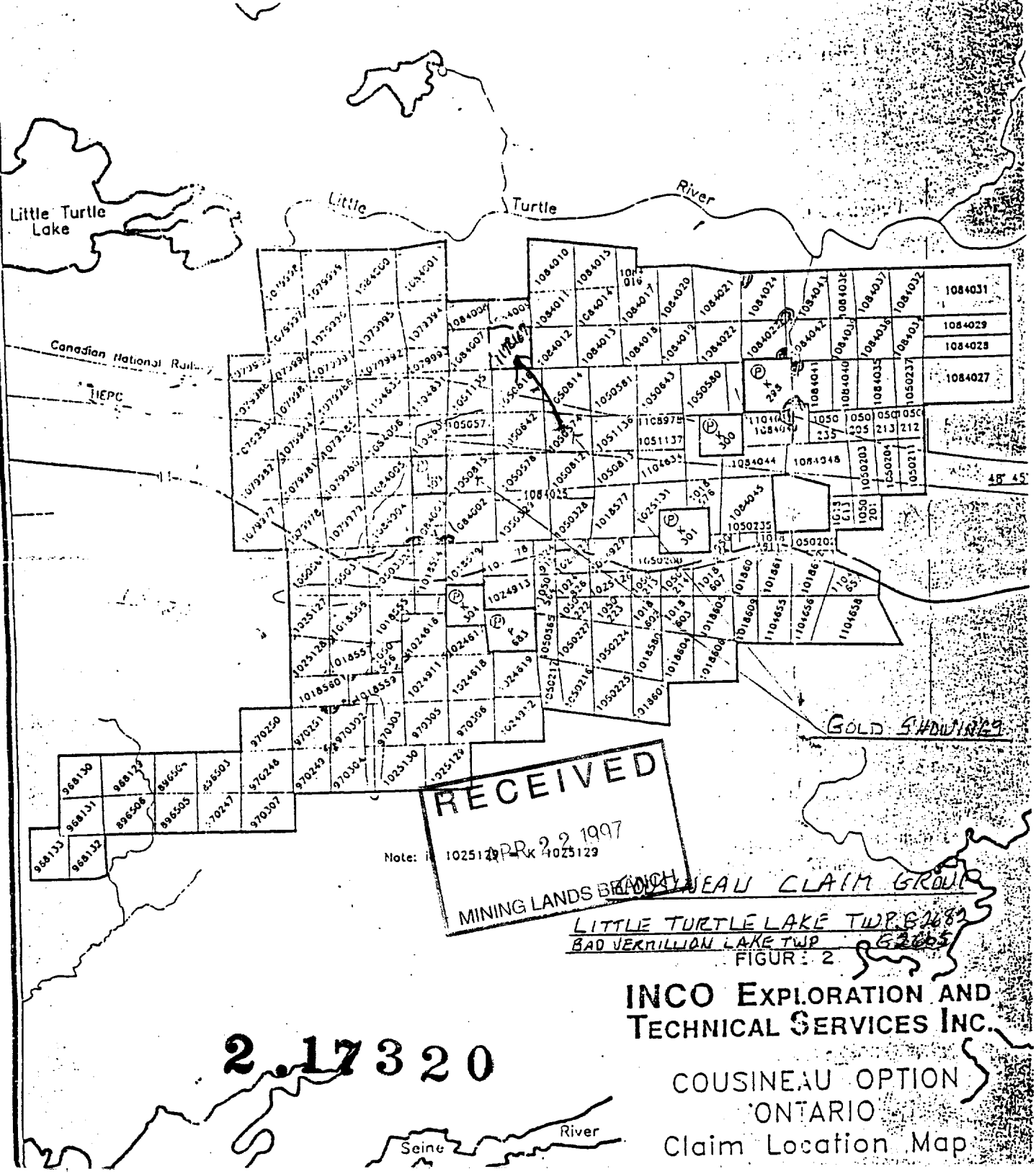
FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm
		a 15cm thick bed at the end of the interval. Fol., shearing, and contacts are 45-50 deg to the CA, except at the lower contact of the subinterval, where contacts and foliation are 70-75 deg to the CA. Strongly brecciated, with moderate to strong hem alt. from 58.4-62.5m 62.85 to 66.25 Very fine grained and probably mafic ash. Strongly chl and fe-carb altered, with up to 1% diss. py. Well foliated at 60-70 deg to the CA, with 3-5% cm-wide fol. parallel qtz-carb stringers.							
66.25	71.93	INTERMED TO FELSIC TUFF (Int-Fels Tuff alt'd) Banded orange to pale yellow green to grey green. Very fine grained, and probably an ash tuff with tr-1% very fine qtz-eyes. Banding is presumably due primarily to shearing and alteration, but varying chl content is likely indicative of primary compositional differences from bed to bed. Strongly to intensely fe-carb and ser altered, with tr-1% fine diss. py. Shearing and foliation are at 60-70 deg to the CA.	67.74	68.26	0.52	20	46	84	NIL
			68.26	68.72	0.46	15	15	62	NIL
			69.67	69.96	0.29	30	64	30	NIL
71.93	106.07	MAFIC TUFF (Maf Tuff alt'd) Similar to the interval from 65.25-66.25m. Strongly to intensely chl and fe-carb altered, mod. to strongly sheared.	72.18	72.34	0.16	15	39	106	NIL
			72.34	73.21	0.87	55	770	87	NIL
			73.53	74.06	0.53	15	80	81	NIL

FROM	TO	LITHOLOGICAL DESCRIPTION
		Up to 1% fine diss. py is often present. Foliated at 45-75 deg to the CA, commonly at about 60 deg. 5-15% cm-wide qtz-carb fillings and 1-15cm wide fe-carb replacement zones occur throughout the unit, with some displaying clear evidence of folding during shearing.
		72.3 to 74.0 20-25% qtz-carb as cm to 15cm wide veinlets, and with 1-2% py and tr cpy, mostly from veinlets. Strong kinking/ contorted folding of the foliation is also evident throughout.
		91.25 to 106.7 Commonly with 5-7% 0.5-1cm qtz-carb filled amygdules, suggesting a flow rather than a tuffaceous origin. Fe-carb and strong shearing cease around 104.75, and the rock downhole resembles that from the interval 28.7-48.26, except for the presence of the amygdules and the absence of hem.

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
107.00	-50.00	

ASSAYS					
FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm
75.58	76.36	0.78	10	106	118	NIL
79.13	79.78	0.65	10	75	90	NIL
82.61	83.44	0.83	10	25	55	NIL
84.20	84.59	0.39	815	36	48	NIL
86.99	87.86	0.87	10	43	96	NIL
88.16	88.63	0.47	15	24	62	NIL
92.99	93.31	0.32	40	18	63	NIL
97.85	98.44	0.59	20	49	99	NIL
98.44	99.00	0.56	10	48	98	NIL
101.38	101.80	0.42	10	32	70	NIL
103.92	104.26	0.34	10	33	79	NIL
104.26	104.90	0.64	5	37	92	NIL
105.40	106.07	0.67	10	22	73	NIL



Note: 1025129 PR x 1025129

COUSINEAU CLAIM GROUP
LITTLE TURTLE LAKE TWP. G2682
BAD VERMILION LAKE TWP G2665
FIGURE 2

INCO EXPLORATION AND TECHNICAL SERVICES INC.

COUSINEAU OPTION
ONTARIO
Claim Location Map

2.17320

BENNETT LAKE G 3667

Little Turtle Lake

Little Turtle River

Canadian National Rail

TIEPC

Shoal Lake

Seine River

Note: ie 1025129 = K 1025129

COUSINEAU CLAIM GRO
G 3682
LITTLE TURTLE LAKE TWP.
BAD VERMILLION LAKE TWP.

FIGURE 2

INCO EXPLORATION AND TECHNICAL SERVICES INC.

COUSINEAU OPTION
ONTARIO
Claim Location Map

SCALE 1:50,000

OCT. 4, 1990

52C/10,15

FEET

SCALE 1 INCH = 40 CHAINS

48°48'00"

← FORT FRANCES
RNF CENTRE

HWY. 11 ATIKOKAN →

ACCESS

1161434 1161435 1161514

1161513 Glenorchy

1161516

1161515

1150080

[redacted]

BENNETT LAKE G 3667

Little Turtle Lake

Little Turtle River

Canadian National Rail

TIEPC

Shoal Lake

Seine River

Note: ie 1025129 = K 1025129

GOLD STAND

COUSINEAU CLAIM GRO

LITTLE TURTLE LAKE TWP.
BAD VERMILION LAKE TWP

FIGURE 2

INCO EXPLORATION AND TECHNICAL SERVICES INC.

COUSINEAU OPTION
ONTARIO
Claim Location Map

SCALE 1:50,000

OCT. 4, 1990 52C/10,15

Little Turtle River

Glenorchy

HWY 17 AIKAKAN →

← FORT FRANCES
→ ONE CENTRE

ACCESS

2.173

E MINING LANDS

Ontario — Ministry of Northern Development and Mines

Declaration of Assessment Work Performed on Mining Land

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

Transaction Number (office use): W9710.00070

Assessment Files Research Imaging

Personal information coll … Mining Act, the informatic … Questions about this c… 933 Ramsey Lake Road, …

52C15SE0029 2.17320 LITTLE TURTLE LAKE

900

…(3) of the Mining Act. Under section 8 of the … and correspond with the mining land holder. …rthern Development and Mines, 6th Floor, …

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

2.17320

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

Name	Client Number
EDWARD LOUIS COUSINEAU	121596
Address	Telephone Number
P.O. Box 33	807-486-1204
FORT FRANCES, ONT. P9A 3M5	Fax Number 807-274-4686
Name	Client Number
LOUIS E COUSINEAU	121674
Address	Telephone Number
P.O. Box 33	807-274-3761
FORT FRANCES, ONT. P9A 3M5	Fax Number 807-274-4686

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

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

Work Type	Office Use
DIAMOND DRILLING	Commodity
	Total $ Value of Work Claimed 9843.00
Dates Work Performed From 9 (Day) 5 (Month) 1996 (Year) To 31 (Day) 8 (Month) 1996 (Year)	NTS Reference
Global Positioning System Data (if available) / Township/Area: LITTLE TURTLE LAKE	Mining Division Kenora
M or G-Plan Number: G3682	Resident Geologist District Kenora

RECEIVED
APR 08 1997
MINING LANDS BRANCH

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

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

Name	Telephone Number
WAGG MINERAL-EXPLORATION & CONSULTING INC	613-333-5228
Address	Fax Number
R.R.#1 DENBIGH, ONT. K0H 1L0	
Name	Telephone Number
Address	Fax Number
Name	Telephone Number
Address	Fax Number

4. Certification by Recorded Holder or Agent

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

Signature of Recorded Holder or Agent		Date
Louis Cousineau		March 31, 1997
Agent's Address	Telephone Number	Fax Number
PO Box 33, Fort Frances, Ont.	807-274-3761	807-274-4686

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

	Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg	TB 7827	16 ha	$26, 825	N/A	$24,000	$2,825
eg	1234567	12	0	$24,000	0	0
eg	1234568	2	$ 8, 892	$ 4,000	0	$4,892
1	1050574	1	9843	400	1200	8243
2	1178167	1	0	1200	0	0
3						
4						
5						
6						
7						
8						
9						
10	2.178220		1 claim unit			
11						
12						
13						
14						
15						
		Column Totals	9843.	1600	1200	8243

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

Signature of Recorded Holder or Agent Authorized in Writing	Date
Louis Cousineau	March 31/97

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

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

- ☐ 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- ☐ 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- ☐ 3. Credits are to be cut back equally over all claims listed in this declaration; or
- ☐ 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

Received Stamp: NORA - MINING DIV. RECEIVED APR - 3 1997 AM PM 7 8 9 10 11 12 1 2 3 4 5 6

Deemed Approved Date	Date Notification Sent
July 2/1997	
Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)	

Ontario

Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Transaction Number (office use)

W9710.00070

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

2.17

Work Type	Units of Work Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
DIAMOND DRILLING	304'	+GST 17.00 FT.	5168.00
CASINGS	4'	17.00 FT.	68.00
ACID TESTS	2	50.00 EA	100.00
GEOCHEMISTRY	67 SAMPLES	@ 30.00 EA	2010.00
		GST	514.22
Associated Costs (e.g. supplies, mobilization and demobilization).			
PAUL JONES 1467.43+477.67+1113.38		3058.43 X 11.5%	351.72
DAMIEN ENGELBRECHT 1009.11		1009.11 X 11.5%	116.05
WAGG MINERAL EXP + CONSULTING 6830.96		6830.96 X 11.5%	785.56
DON J McEACHREN - LINE CUTTING 4547.50		4547.50 X 11.5%	522.96
MOBILIZATION + STANDBY 1800 X 11.5%		1800 X 11.5%	207.00
Transportation Costs			
Food and Lodging Costs			
Total Value of Assessment Work			9843.51

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APR 22 1997
MINING LANDS BRANCH

Calculations of Filing Discounts:

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK × 0.50 = Total $ value of worked claimed.

Note:
- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Certification verifying costs:

I, LOUIS COUSINEAU (please print full name), do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as Louis Cousineau (AGENT) (recorded holder, agent, or state company position with signing authority) I am authorized to make this certification.

Signature	Date
Louis Cousineau	March 31, 1997

0212 (02/96)

Ontario Ministry of Northern Development and Mines

Declaration of Assessment Work Performed on Mining Land

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

Transaction Number (office use)
W9710.00071
Assessment Files Research Imaging

Personal information collected on this form is obtained under the authority of subsections 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

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

2.17320

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

Name	Client Number
EDWARD LOUIS COUSINEAU	121596
Address: P.O. Box 33	Telephone Number: 807-486-1704
FORT FRANCES, ONT. P9A 3M5	Fax Number: 807-274-4686
Name: LOUIS E COUSINEAU	Client Number: 121624
Address: P.O. Box 33	Telephone Number: 807-274-3761
FORT FRANCES, ONT. P9A 3M5	Fax Number: 807-274-4686

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

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

Work Type	Office Use
DIAMOND DRILLING	Commodity
	Total $ Value of Work Claimed: 72,434
Dates Work Performed: From 9 (Day) 5 (Month) 1996 (Year) To 31 (Day) 8 (Month) 1996 (Year)	NTS Reference
Global Positioning System Data (if available) — Township/Area: LITTLE TURTLE LAKE	Mining Division: Kenora
M or G-Plan Number: G-2682	Resident Geologist District: Kenora

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

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

Name	Telephone Number
WAGG MINERAL EXPLORATION & CONSULTING INC.	613-333-5038
Address: R.R. #1 DENBIGH, ONT. K0H 1L0	Fax Number
Name	Telephone Number
Address	Fax Number
Name	Telephone Number
Address	Fax Number

RECEIVED
APR 22 1997
MINING LANDS BRANCH

4. Certification by Recorded Holder or Agent

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

Signature of Recorded Holder or Agent		Date
Louis Cousineau		March 31/1997
Agent's Address: P.O. Box 33 FORT FRANCES, ONT	Telephone Number: 807-274-3761	Fax Number: 807-274-4686

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

	Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg	TB 7827	16 ha	$26, 825	N/A	$24,000	$2,825
eg	1234567	12	0	$24,000	0	0
eg	1234568	2	$ 8, 892	$ 4,000	0	$4,892
1	1050815	1	72,434	0	16400	56,034
2	1161514	12	0	4800	0	0
3	1161515	14	0	3600	0	0
4	1161000	6	0	2400	0	0
5	1161434	2	0	800	0	0
6	1161435	6	0	2400	0	0
7	1161513	6	0	2400	0	0
8						
9						
10						
11						
12						
13						
14						
15						
		Column Totals	72,434	16,400	16,400	56,034

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

Signature of Recorded Holder or Agent Authorized in Writing	Date
Louis Cousineau	March 31, 1997

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

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

- ☑ 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
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- ☐ 3. Credits are to be cut back equally over all claims listed in this declaration; or
- ☐ 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

Received Stamp

KENORA MINING DIV. RECEIVED APR - 3 1997 AM PM 7 8 9 10 11 12 1 2 3 4 5 6

Deemed Approved Date	Date Notification Sent
July 2, 1997	
Date Approved	Total Value of Credit Approved

Approved for Recording by Mining Recorder (Signature)

0241 (02/96)

Ontario Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Transaction Number (office use): W9710.00071

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Godoon

Work Type	Units of Work Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
DIAMOND DRILLING	2331 FEET	$17.00 FT.	39,627.00
CASINGS	65'	$17.00 FT.	1,105.00
ACID TESTS	8 HOLES (2-EACH)	$50.00 EA	800.00
GEOCHEMISTRY	40/o SAMPLES	$30.00	12,180.00
LINE CUTTING	11.8 KM. LINE RECUT 5.2 KM. DRILLING GRID	$4250. X 88.5%	3,761.25
		G.S.T. ↑	4,023.13
Associated Costs (e.g. supplies, mobilization and demobilization).			
PROGRAM SUPERVISION			
MOBILIZATION + STANBY		1800 X 88.5%	1,593.00
DAMIEN ENGELBRECHT		1009.11 X 88.5%	893.06
WAG. MINERAL EXP. & CONSULTING		6830.96 X 88.5%	6045.40
PAUL JONES INC		3058.43 X 88.5%	2706.71
Transportation Costs			
Food and Lodging Costs			
Total Value of Assessment Work			72434.5

RECEIVED
APR 22 1997
MINING LANDS BRANCH

Calculations of Filing Discounts:

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

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Note:
- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Certification verifying costs:

I, Louis Cousineau (please print full name), do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as AGENT (recorded holder, agent, or state company position with signing authority) I am authorized to make this certification.

Signature	Date
L. Cousineau	April 21 1997

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Ontario

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

Telephone: (888) 415-9846
Fax: (705) 670-5863

July 31, 1997

Louis Cousineau
EDWARD LOUIS COUSINEAU
P.O. BOX 33
FORT FRANCES, Ontario
P9A-3M5

Dear Sir or Madam:

Submission Number: 2.17320

Subject: Transaction Number(s):		**Status**
	W9710.00070	Approval After Notice
	W9710.00071	Approval After Notice

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Steve Beneteau by e-mail at beneteau_s@torv05.ndm.gov.on.ca or by telephone at (705) 670-5855.

Yours sincerely,

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

Correspondence ID: 11148

Copy for: Assessment Library

Work Report Assessment Results

Submission Number: 2.17320

Date Correspondence Sent: July 31, 1997 **Assessor:** Steve Beneteau

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9710.00070	1050574	LITTLE TURTLE LAKE	Approval After Notice	July 28, 1997

Section:
10 Physical PDRILL

All deficiencies associated with this submission have been corrected. Accordingly, assessment credit has been approved as outlined in the Report of Work form accompanying this submission.

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9710.00071	1050815	LITTLE TURTLE LAKE	Approval After Notice	July 28, 1997

Section:
10 Physical PDRILL

All deficiencies associated with this submission have been corrected. Accordingly, assessment credit has been approved as outlined in the Report of Work form accompanying this submission.

Correspondence to:

Resident Geologist
Kenora, ON

Assessment Files Library
Sudbury, ON

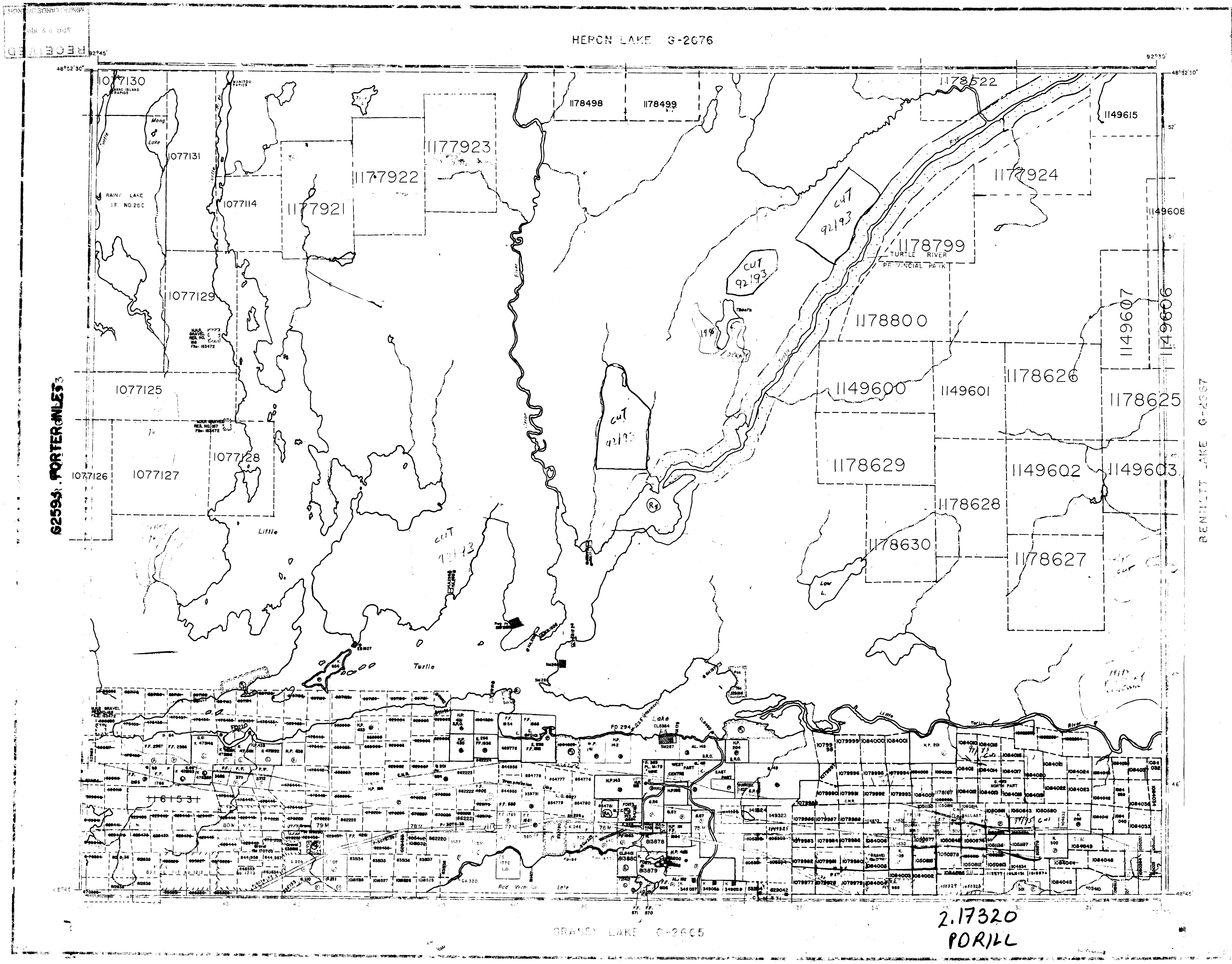
Recorded Holder(s) and/or Agent(s):

Louis Cousineau
EDWARD LOUIS COUSINEAU
FORT FRANCES, Ontario

LOUIS E COUSINEAU
Fort Frances, Ontario

EDWARD LOUIS COUSINEAU
FORT FRANCES, Ontario

LOUIS E COUSINEAU
Fort Frances, Ontario



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

LEGEND

PATENTED LAND	or (P)
CROWN LAND SALE	C.S.
LEASES	(L)
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	
PATENTED S.R.O.	
CANCELLED	

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

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

	Description	Order No.	Date	Disposition	File
R1	Public Lands Act		7/7/67	S.R.O.	163472
R2				S.R.O.	[illegible]
R3		W.7/76	19/2/76	S.R.O.	67883.
R4		W.88/77	14/11/77	S.R.O.	3591
R5	Park Reserve	W.73/83	2/13/83	M&S	188521
R6		W.20/85	19/11/85	S & MR.	
R7	WK-24-90		20/12/90	SRO	
R8	MINING ACT	W-KE-05/91	14/06/91	S+MR	
R9	MINING ACT	W-K-25/92	14/06/92	S.R.O.	195150

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000
METRES 0 200 1000 (1 KM) 2000 (2 KM)

AREA
LITTLE TURTLE LAKE

2.17320

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

DATE OF ISSUE APR 10 1997 KENORA MINING DIVISION

Ministry of Natural Resources
Lands Management Branch
Ontario

Date: MARCH, 1984

G-2682