REPORT

ON

DIAMOND DRILLING

Mistango Consolidated Resources Ltd.

Claim Group

Sturgeon Lake, District of Patricia, Ontario

July 5, 1986

Chester J. Kuryliw M.Sc.,P.Eng.
Consulting Geologist

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Plans, Sections and Drill Logs

THE PROPERTY

The Mistango Consolidated Resources Ltd. claim groups on Sturgeon Lake consists of two separate groups. One group consists of 7 claims in the North-East arm of Sturgeon Lake the second contiguous group consists of 56 claims located on Sturgeon Lake at the intersection of the North-East arm, East Bay and King Bay. The claim groups are included in the claim plan of Squaw Lake, Plan number M-1904, Patricia district of Northwestern Ontario.

The unpatented mining claims are listed below:

Group 1	Group 2	Group 2
P 590768	P 590673	P 844829
P 844848	P 590674	P 844830
P 844849	P 590675	P 844831
P 844850	P 590676	P 844832
P 844851	P 590677	P 844833
P 844852	P 590678	P 844834
P 844853	P 590679	P 844835
	P 590680	P 844836
	P 590681	P 844837
	P 590682	P 844838
	P 590683	P 844839
	P 590684	P 844840
	P 590685	P 844841

The Property cont'd

Group 2	Group 2
P 590686	P 844842
P 590687	P 844843
P 612420	P 844845
P 612421	P 844846
P 612423	P 844847
P 612424	P 844854
P 612425	P 844855
P 612426	P 844856
P 612427	P 844857
P 612428	P 844858
P 612429	P 844859
P 612430	P 844860
P 612431	P 844861
P 612432	
P 719203	
P 719204	
P 855901	

STURGEON LAKE

STEEP ROCK

STEEP ROCK

KERR ADD.

Northeast Arm

King Bay

Coveney Island

East Bay

PLAN OF 1986 D. DRILLING

MISTANGO CONS. RES.

CLAIM GROUP

STURGEON LAKE, ONT.

SCALE:

FEET 0 1000 2000 4000 6000 8000

REGISTERED PROFESSIONAL ENGINEER, PROVINCE OF ONTARIO

C. J. KURYLIW

July 5 1986

LOCATION AND ACCESS

The claim groups of the property are located about 70 miles north of Ignace. The town of Ignace is 150 miles west of Thunder Bay along the Trans Canada Highway. The property is accessible from Ignace by following highway 599 northwards from the Trans Canada Highway to the Six Mile Lake gravelled logging road. A truck road branches eastwards to King Bay (the last two miles is essentially a tractor road). In winter the claim groups are accessible by tractor or snowmachine over the ice of King Bay and Sturgeon Lake, in summer the claim groups can be reached by boat.

HISTORY OF THE PROPERTY

The Sturgeon Lake area was first explored in 1848 and several occurrences of gold were discovered. The St. Anthony Gold Mine was a successful small gold producer. There was an abundance of gold discoveries that have been underdeveloped which leads to the assumption that most gold deposits are limited in size. In the early nineteen hundreds a small stamp mill was located on the south-west shore of King Bay where they were recovering gold from glacially transported boulders that were found on the south shore of King Bay. The source of these mineralized boulders is undoubtedly from the rocks that underly Sturgeon Lake.

In 1982 and 1983 Steep Rock Mines carried out a program of diamond drilling on the Armstrong-Best gold discovery at the north-west shore of King Bay. Some rich drill hole intersections were returned that started renewed interest and claim staking in the area, Steep Rock made a second discovery of gold in a sheared zone about one mile west of Rainbow Island.

During the 1980's a syndicated group attempted to opencut mine, hand-sort and concentrate with a small 5 ton mill the rich Rainbow Island vein. This project was

History of the Property cont'd

unsuccessful, probably due to the shoestring approach and lack of technical expertise.

In 1981 Rickaby Mines carried out some surface trenching of a rich narrow gold vein and they shipped out a bulk sample of over 100 tons. The Rickaby vein occurs about 3/4 miles East-North-East of Rainbow Island.

The Mistango claim groups were purchased from C. Kuryliw who staked these claims in 1982, 1983 and 1985.

INTRODUCTION

Mistango Consolidated Resources purchased these claims in October 1985. Twenty seven of these claims were previously covered by a line grid over the lake and land and a magnetic ground survey and a VLF-EM survey were carried out. Geologic mapping was also done on the same claim gruop, much of this consisted of shoreline mapping.

The numerous occurrences of gold in the area of these claims warranted a diamond drilling program to explore for significant gold bearing structures on the claim group. Assessment work requirements were also due. When the financing for the drilling program was assured the lake ice was unsafe for heavy equipment. It was necessary to carry out diamond drilling from available locations on Islands and lake shore. The drill was moved from site to site by barge. The drilling from the only available locations from islands and shoreline restricted the spotting of drill holes so that VLF and geologic targets could not always be intersected at preferred locations. Some extra footages was required on some drill holes to cross an interpreted structure. One benefit of drilling from islands and shoreline was the elimination of overburden drilling and deep casing, which resulted in some cost reduction.

Introduction cont'd

The drilling program ran quite smoothly except for a two week suspension of drilling due to MNR lifting of the work permit due to regional fire hazards.

TABLE OF FORMATIONS

PRECAMBRIAN

QUARTZ VEINS

ACID INTRUSIVES

QUARTZ-FELDSPAR PORPHYRY DYKES

GRANITE, LEWIS LAKE BATHOLITH.

SYENITIC GRANITE DYKES (WHITE FELDSPAR PORPHYRY)

GRANODIORITE, INTRUSIVE

GRANODIORITE, DYKES AND INFILLING OF BLOCK BRECCIA

BASIC INTRUSIVES

GABBRO

GABBRO (PORPHYRITIC ANORTHOSITE)

AMPHIBOLITE

VOLCANICS - 'KURYLIW SEQUENCE' (SOUTH FROM LEWIS L. BATHOLITH)

BASALTIC LAVA, PILLOWED, AMPHIBOLIZED. (1500')

ANDESITIC PILLOW LAVA, FELDSPAR PORPHYROBLASTS (500')

FELSIC VOLCANOGENIC SEDIMENT GROUP, FELD SPATHIC (1500-2000')

- AGGLOMERATE
- LAPILLI-AGGLOMERATES AND TUFFS
- TUFFS

ANDESITE-BASALT LAVAS, PILLOWED (15 000')

" " ", MASSIVE

STURGEON LAKE - EAST BAY

SEDIMENTS: ARGILLITE 2-A, CHERT 2-C, MUDSTONE 2-M, IRON FORMATION I.F,

DACITIC AGGLOMERATES & LAPILLI-TUFFS

General Geology

The general geology of the Sturgeon Lake area consists of a belt of Precambrian Volcanic and sedimentary rocks of Archean age that encircle the Lewis Lake and Lake of the Bays granite batholiths. In the area of the North and North-East arms of Sturgeon Lake the volcanic belt wraps around the southern and eastern edges of the Lewis Lake batholith. Embayments of the granite into the volcanics along the eastern edge of the batholith coincides with several gold occurrences of economic significance.

The volcanic belt has been resolved into two main sequences, the more southerly volcanic sequence that surrounds the lower area of Sturgeon Lake exhibits an abundance of sulphide occurrences. The area adjacent to and south of the lake hosts the 4,000 ton per day Mattabi Mine which produces Cu - Zn - Pb - Ag ore. The northerly sequence of volcanics up against the Lewis Lake batholith contains numerous gold occurrences which includes the St. Anthony mine, a past gold producer and the newly discovered Steep Rock gold deposit.

The geology to the northwest of King Bay up to the Lewis Lake batholith consists of a sequence of rock formations of volcanic origin. This sequence of formations was mapped by this writer over a length of 5 miles and a depth of 3 miles with some periferal reconnaissance geology. The "Kuryliw" sequence of rock formations going south from the Lewis Lake batholith is as follows,

(1) Basaltic Pillow Lava formation (1,500 feet thick)

(2) Andesitic Pillow Lava formation (500 feet thick)

(3) Felsic Volcanogenic Sediments formation (1,500 - 2,000 ft thick)

(4) Andesite-Basalt Pillow Lava formation (15,000 feet thick)

(5) Intrusives

The "Kuryliw" sequence of volcanic formations was extensively intruded by basic rocks, largely gabbro and some amphibolite. 10 to 25% of the area of the "Kuryliw" volcanic sequence is occupied by gabbroic intrusions. The majority of the intrusions are concentrated along and near the volcanogenic sediments. About 4 miles west of King Bay the "Kuryliw" sequence of formations has been intruded by granodiorite that occurs as a complex of dykes and dykelets that form a broad stockwork. These granodiorite dykes cut across all gabbros in the volcanics. Some narrow irregular intrusions of sericitic quartz porphyry dykes were located in the mapping.

(6) The Lewis Lake "Granite" Batholith

The mineral composition of the batholith near its southern and eastern edges consists mainly of coarse white plagioclase feldspar which is in part porphyritic. It also contains 5 - 10% quartz and up to 7% ferromagnesian. The batholith extends as a nose to the southeast into Sturgeon Lake just north of the junction of East Bay and King Bay. There is a gradual phase change in the composition of the batholith rock in the nose to the southeast. It becomes depleted in Quartz and ferromagnesians so that they become white syenitic rock composed almost completely of feldspar.

There is a progressive zoning of the nose of the batholith southeastwards. The zoning is arbitrarily delineated in the mapping as follows,

(A) Syenite

(B) Syenite with 10 - 30% inclusions of volcanics and gabbro.

(C) Volcanics with gabbro intruded by numerous dykes of syenite.

The known gold occurrences at the batholith nose intrusion consists of a gold bearing blue-grey quartz vein located at the contact of Syenite and a long inclusion of narrow lavas on Rainbow Island. On Rickaby point the gold bearing blue-grey quartz similarily occurs at the contact of a syenitic dyke and massive lava.

(7) Quartz - Porphyry Felsic Rock

South of King Bay on the Kerr Addison this rock trends eastwards towards East Bay and westwards across the Six Mile Road.

Rock Types

(1) Sturgeon Lake, East Bay, Felsic Volcanics

Dacitic Agglomerate

This rock is light greenish grey, dacitic and composed of fragments of volcanic ejecta most of which are 1 cm - 5 cm in diameter. This rock forms the main formation along the northeast arm. At the entrance to East Bay the agglomerate is brownish due to some oxidation near the East Bay fault.

Lapilli Tuff

This rock was recognized on the large island claim 590678 where it was dark brownish due to strong carbonatization and oxidation. This granular textured tuff also carries some fuchsite.

(2) Sturgeon Lake, East Bay, Sediments

These sediments consist of argillite, mudstones, cherts, Felsic-Tuffs, and lean iron formation.

Cherts and lean Iron formation

These are finely banded chert-sediments that are composed mainly of Silica but these can grade across the bedding into lean cherty iron formation. Immediately north of the East Bay fault the lean iron formation carries heavy pyrite and pyrrhotite that forms a large gossan outcrop.

Argillite, Mudstone, and Felsic Tuffs

These sediments are finely banded and interlayered and carry 1 - 4% Iron Sulphides. Due to surface oxidation these light coloured rocks have a brownish appearance on weathering.

(3) Volcanics - The "Kuryliw" Sequence (south of the Lewis Lake Batholith)

Basaltic Pillow Lava Formation

This basaltic pillow lava is about 1,500 feet thick and lies at the north end of the sequence up against the Lewis Lake Batholith. The rocks are dark greenish, amphibolized and metamorphosed. The pillows are elongated parallel to the granite contact. This formation is overturned and dips steeply southwards at 60° - 80° with flow tops to the north.

Andesitic Pillow Lava formation

This Andesitic pillow lava lies immediately south of the Basaltic pillow lava formation and it is about 500 feet thick. This rock is epidotic-light green in colour and its distinctive characteristic are knots of white feldspar that resemble spherulites but are most likely feldspar porphyroblasts. The porphyroblasts are up to 2 cms in diameter with the majority being 1 cm in diameter. These feldspar porphyroblasts occur throughout the pillows and comprise 5 - 30% of the well pillowed lava.

This formation is distinctive and easily recognizable so that it makes a unique stratigraphic horizon marker. This formation has been traced for a distance of 7 miles and is known to extend to the west of Highway 599.

Felsic Volcanogenic Sediments

This formation of sediments consists of a series of members that were formed from volcanic ejecta that resulted in the formation of felsic agglomerates, felsic lapilli-tuffs and tuffs. There

appears to be a progression of the coarser agglomerates occurring at the north side, granular lapilli-tuffs in the central part, and tuffs on the south side of the formation.

The rocks of this formation are all characterized by a light buff weathering, and unusually high white feldspar content and a lack of ferromagnesian minerals. The southern most contact of the tuffs is mineralized with Pyrite and in the few outcrops observed forms some light Gossan.

This formation is 1,500 - 2,000 feet thick, its true thickness is difficult to determine because of the numerous gabbro sills and intrusions that occur. Members of this formation dip from 45 - 85° southwards. The strikes and dips of the sediments in local areas are commonly warped by the gabbro intrusions.

Andesite-Basalt Pillow Lava Formation

This pillow lava forms the most common rock of the area and is about 15,000 feet thick. This formation embraces the Steep Rock gold discovery at King Bay and it has been traced to the east and northeast as it wraps around the Lewis Lake Batholith at Sturgeon Lake. This formation has been intruded by numerous sills and dykes of Gabbro. The pillows of this formation dip 35 - 80° southwards and the formation is overturned with tops to the north.

(4) Basic Intrusives

Gabbro

This rock is a fairly typical dark greenish gabbro that is composed chiefly of ferromagnesians with little Feldspar showing

in hand specimens. This gabbro is low in magnetite and cannot be distinguished from the Andesite-Basalt lava that it intrudes. This rock occurs as an irregular group of sills and intrusives and some later age north trending gabbro dykes. This gabbro comprises 25 - 50% of the area of the volcanogenic sediment and 10 - 25% of the Andesite-Basalt formation.

Amphibolite

This is generally a coarse grained sill intrusion composed almost completely of coarse amphiboles up to 1 cm in diameter. It is up to 200 feet thick and roughly traces the contact between volcanogenic sediments and the Andesitic pillow lava formation.

Anorthositic Gabbro

This gabbro sill which is 50 - 100 feet thick occurs following near the southern contact of the volcanogenic sediment formation. Outcrops of this rock have an unusual "conglomerate-like" appearance due to the coarse nodular feldspar phenocrysts that form up to 95% of the rock and these nodules are most commonly 5 cms in diameter.

(5) Granodiorite

This rock is medium grained and is composed of 80 - 95% white feldspar with the dark minerals predominately amphibole where the granodiorite intrudes gabbro and a mixture of amphibole and biotite where it intrudes pillow lavas. This rock occurs abundantly about 4 miles west of King Bay and it occurs as local dykes and intrusives and also as an in-filling between block breccia of volcanics or gabbro.

(6) Granite - Lewis Lake Batholith

The granite near the south boundary of the batholith is composed of coarse white feldspar with 5 - 10% quartz and 3 - 7% ferromagnesian.

Syenitic Granite Nose of Batholith

The nose and offshoot dykes from the Lewis Lake Batholith are whitish feldspathic rocks almost devoid of quartz and ferromagnesian minerals. Swarms of these dykes occur from King Bay on its north shore to the large area around Rainbow Island.

(7) Quartz - Feldspar - Porphyry Dykes

These buff coloured sericitic dykes are narrow and irregular and occur sparsely in the formations of the "Kuryliw" sequence. At the south shore of King Bay a large continuous sericitic quartz-porphyry extends for several miles to the west of King Bay and to east up to East Bay. It is not yet established if this rock is quartz-porphyry intrusion or a porphyritic, felsic crystal-tuff.

(8) Quartz Veins

The Andesite-Basalt formation has a clear grey quartz that fills some of the inter-pillow spaces but these have not been found to be significantly auriferous. The gold bearing vein deposits of the area all have the common characteristics of dark blue-grey quartz with finely disseminated pyrite and pyrrhotite and finely divided gold. (The Steep Rock discovery at King Bay, the Rainbow Island, Rickaby, and Oz Island all have this similar dark blue-grey quartz.)

Local Geology

The Rainbow Island Claim Group

This claim group covers the syenitic nose intrusion of the Lewis Lake batholith and its progressive zoning southeastwards that has been arbitrarily delineated by the mapping as follows,

(A) Syenite

(B) Syenite with 10 - 30% inclusions of volcanics and gabbro.

(C) Volcanics with gabbro which is intruded by numerous dykes of syenite.

The contacts of the competent syenite dykes with the older less competent altered lavas and gabbros become the sites of shearing and fracturing during later adjustments to tectonic stresses. Gold mineralization was introduced to these sites of fracturing and shearing at the contact as exemplified by the "Rainbow Island", "Rickaby Point" and "Oz Island" gold vein occurrences.

The Iron Duke Claim Group

The Iron Duke Claim group is located over the strong east-west fault in East Bay. This fault predates the intrusion of the southeast nose of the Lewis Lake batholith. This east-west fault is readily recognizable in the old Iron Duke adit. It is marked by a fault-breccia zone at its hanging wall to the south and a 20 foot thick milky white quartz vein on its footwall. The white quartz vein contains 10 - 20% massive pyrite. South of the fault the cherty felsic sediments strike east-west and dip about 80° southwards. North of the fault (which has a 57° dip to the south) the sediments form a bow-fold. To the west of the adit the sediments north of the fault trend northeasterly and

to the east of the adit they trend southeasterly. In both cases the northerly sediment trends are cut by the fault.

The large white quartz vein that follows the East Bay fault appears to predate the gold bearing dark blue-grey quartz. The white quartz vein could provide an excellent host rock where it is intruded by syenitic dykes and such favourable sites should be tested.

Claim 590678

This claim in the north-east arm of Sturgeon Lake occurs about six miles north-east of Rainbow Island. The rocks in the area of the island are coarse dacitic agglomerates that trend north-east and dip 55° southeastwards.

The rocks underlying the claim are agglomerate and granular lapilli-tuff which have been intensely carbonatized with some green fucshite. Flat lying quartz filled tension fractures cut across the carbonatized rock. A gabbro intrusion occurs to the southeast and probably a deep seated ultrabasic intrusive is the source of the carbonatization. O.G.S. compilation map 2442 noted gold mineralization from quartz on this claim.

RESULTS OF DIAMOND DRILLING

Diamond Drill Hole M-86-1

This hole was drilled at -40° southwards to cross a weak VLF-EM conductor and the projection of the Steep Rock Hotel Point discovery that occurs about 2000 feet to the south-west. This diamond drill hole was successful in locating the possible extension of that structure at a depth of 107.0' to 121.0' where bands of rhyolitic tuff and quartz carbonitized basalt lava were located. No vein was intersected but the structure is auriferous, assays of 0.02 and 0.01 ounce gold were returned. This gold bearing structure appears to be significant and warrants some follow-up drilling from lake ice to search for enriched and veined portions in this structure.

Diamond Drill Hole M-86-2

This hole was drilled at -40° northwards with its collar located 200 feet north of diamond drill hole M-86-1. It was directed to test a weak VLF-EM conductor. It appears the conductor consists of a narrow inclusion of Basalt in granitic porphyry. This does not appear to be a significant structure.

Results of Diamond Drilling cont'd

Diamond Drill Hole M-86-3

This drill hole was drilled at -40° southwards to test for the possible westerly extension of the narrow, rich Rainbow Island gold vein. This drill hole intersected great widths of gabbro. These Gabbro intrusions appear to limit the westerly extension of the Rainbow Island structure.

Diamond Drill Holes M-86-4 and M-86-5

These drill holes were directed to test the 20 foot thick Iron Duke quartz vein which strikes East-West and dips 55° to the South. An old adit exposes this vein on a point in East Bay. These drill holes were drilled from the only available site at a point that is 400 feet west of the Iron Duke adit. The holes did not succeed in intersecting that vein which does not appear to extend westwards on strike. This structure still warrants diamond drill testing from lake ice to intersect the vein below the adit and to the east of the adit.

Results of Diamond Drilling cont'd

Diamond Drill Hole M-86-6

This drill hole was drilled from an island in the North-East arm of Sturgeon Lake southwesterly at -45°. This drill hole crossed a broad band of carbonitized lapilli tuff. Several sericitic quartz porphyry dykes were crossed and sections of near massive pyrite occur from inches to several feet in thickness with some carbonate and fucshite alteration. The alteration and the pyritic mineralization looked highly encouraging but the assay results of numerous samples taken did not indicate any significant gold values.

Diamond Drill Hole M-86-7

This drill hole was drilled at -45° northwards from the shoreline ¼ mile south of the west end of Rainbow Island. This drill hole was directed to cross a medium strength VLF-EM conductor. It intersected a strongly sheared zone from 259.0' to 275.0'. In addition to the shearing a fishnet pattern of fractures were filled with quartz carbonate alteration but no significant gold values were returned. This drill hole intersected numerous quartz feldspar porphyry dykes that intrude the basaltic lavas. One grey quartz vein was intersected at

Results of Diamond Drilling cont'd

Diamond Drill Hole M-86-7 cont'd

147.9' to 149.3' and it assayed 0.06 ounce Au. and 0.40 ounce Ag. and it carried an estimated 5% chalcopyrite which would be expected to assay about 1.5% copper. Several narrow sections weakly mineralized with chalcopyrite occur near the contacts of lava and quartz porphyry.

This zone of quartz prophyry intrusions and minor copper-gold-silver mineralization and the strong shear zone deserves further drill testing by short holes from lake ice.

Diamond Drill Hole M-86-8

This drill hole was located on an island and drilled northwards at -45° to test for the easterly extension of the Rainbow Island rich narrow gold vein about 1000 feet to the east of the vein. A strongly fractured shear zone was intersected from 351.0' to 406.2'. The basalt was also strongly fractured in an irregular fishnet pattern that was filled with 10% - 15% quartz carbonate. Narrow veinlets of 2" and 3" of dark blue-grey quartz that carried fine V.G. and pyrite were intersected at 367.5' and 393.0'. The assays at the vein intersections ran 0.05 ounces Au. and 0.18 ounce Au. respectively. This

Results of Diamond Drilling cont'd

Diamond Drill Hole M-86-8 cont'd

fractured shear zone appears to be a wider, more strongly developed eastern extension of the Rainbow Island gold bearing zone. Even though ore was not located in this drill hole the potential for discovering significant good sized gold deposits exists.

Some persistent exploration of this structure by diamond drilling from the lake ice is warranted and could prove fruitfull.

CONCLUSIONS

This diamond drill program proved successful as a preliminary exploration attempt and has located some significant structures that warrant further exploration for gold mineralization. These structures are:

(1) The eastern extension of the Rainbow Island gold bearing zone that is strongly developed and carries some narrow dark blue quartz veinlets that carry V.G.

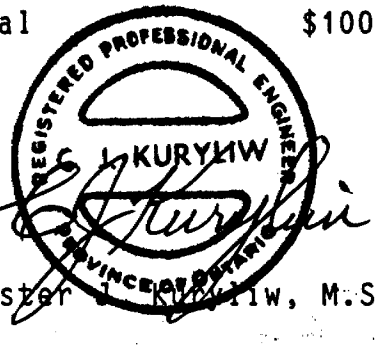
(2) The northeasterly extension of the Steep Rock "Hotel Point" zone. The copper bearing gold-silver zone south of Rainbow Island and the easterly extension of the Iron Duke quartz vein.

July 5, 1986

Chester J. Kuryliw M.Sc.,P.Eng.

RECOMMENDATIONS

	Est. Cost
Diamond Drilling from Lake Ice to test the following structures	
(1) The eastern extension of the Rainbow Island zone 5 drill holes, total of 1,500 feet @ $30. per foot	$ 45,000.
(2) The North-East extension of the "Hotel Point" zone 2 drill holes, total 500 feet @ $30. per foot	15,000.
(3) The Cu, Au, Ag, zone south of Rainbow Island, 2 drill holes, total 500 feet @ $30. per foot	15,000.
(4) The eastern extension of the Iron Duke vein, 2 drill holes, total 500 feet @ $30. per foot	15,000.
Est. Total	$ 90,000.
Contingencies for deep overburden etc.	10,000.
Total	$100,000.



July 5, 1986

Chester J. Kuryliw, M.Sc.,P.Eng.

Chester J. Kuryliw, M.Sc., P.Eng.
Consulting Geologist

C E R T I F I C A T E

I, Chester J. Kuryliw of 46 Ingall Drive, Dryden, Ontario, do hereby certify that:

(1) I am a Professional Engineer and I am currently employed as a Consulting Geologist for several mining companies.

(2) I am a graduate of:
The University of Manitoba B.Sc. Degree, 1949.
The University of Manitoba M.Sc. Degree, 1966.

(3) I am a registered Engineer of the Association of Professional Engineers of Ontario and also Manitoba. I am a fellow of the Geologic Association of Canada, also a member of the Canadian Institute of Mining and Metallurgy.

(4) I have practiced my profession for over 35 years, most of those years at gold mines, during which time I often planned, supervised and directed underground exploration, development and production.

(5) I carried out the geologic mapping in the field over the property, planned and supervised this drilling program and logged the drill core.

July 5, 1986

Chester J. Kuryliw, M.Sc., P.Eng.

CLAIM 590680
B.Q CORE S[illegible]E
CORE STORED AT MOUSSEAU CAMP – STURGEON LAKE

DIAMOND DR[illegible] RECORD

MISTANGO CONS. RES. LTD.

HOLE NO. M-86-1 SHEET NO. 1

Geology –

LATITUDE 0+20N DATUM STARTED May 16, 1986

DEPARTURE 111+20W BEARING Due South COMPLETED May 20, 1986

ELEVATION Lake + 4'.0 DIP –40° @ 300' – 40° ULTIMATE DEPTH 350'.0

DEPTH FEET	FORMATION	FORMATION
0 – 8.0	Casing	
8.0 – 22.0	Trondheimite. This is a coarse grained porphyry that consists of 50 – 60% white plagioclase feldspar as phenocrysts up to 6 mm. diam. 10% – 20% qtz. phenocrysts up to 5 mm. diam and a finer ground mass that consists of qtz. feldspar and minor ferromagnesians.	
22.0 – 29.0	Trondheimite, finer grained contact plane, slightly silicified in parts, minor pyrite.	
29.0 – 79.0	Trondheimite, greyish, coarse grained, as above.	
79.0 – 81.0	a Gabbro dyke, dk. greenish fine grained contacts at 70° to Core axis.	
81.0 – 106.5	Trond. coarse grained, greyish, as above.	
106.5 – 107.0	Basalt lava, dk. greenish, fine grained, contacts at 55° to core axis.	

DRILLED BY Morsette D. Drilling

SIGNED C J Kuryliw
CHESTER J. KURYLIW, M.Sc., P.Eng.
CONSULTING GEOLOGIST

DIAMOND DRILL RECORD

MISTANGO CONS. RES. LTD.

HOLE NO. M-86-1 SHEET NO. 2

LATITUDE ..... DATUM ..... STARTED .....

DEPARTURE ..... BEARING ..... COMPLETED .....

ELEVATION ..... DIP ..... ULTIMATE DEPTH .....

DEPTH FEET	FORMATION	FORMATION
107.0 – 112.8	Rhyolitic tuff, finely banded in parts at 50° to C/A, siliceous and sericitic in parts, carries minor pyrite.	
112.8 – 121.0	Basaltic lava, sheared and partly brecciated. It carries stringers carbonate and calcite filled fractures, 3% pyrite.	
121.0 – 164.3	Fine to med. grained gabbro or dioritized basalt some hairline calcitic fractures suggest a massive basalt lava flow.	
164.3 – 166.7	Trondheimite porphyry dyke, med. grained, contacts at 40° to core axis	
166.7 – 187.0	massive, fine grained, andesite to basalt lava, greenish, fine grained with a few stringers calcitic fractures.	
187.0 – 204.0	Trond. porphyry, greyish, coarse grained	

DRILLED BY Morissette Drilling

SIGNED C. J. Kuryliw

CHESTER J. KURYLIW, M.Sc., P.ENG
CONSULTING GEOLOGIST

DIAMOND DRILL RECORD

MISTANGO CONS. RES. LTD.

HOLE NO. M-86-1 SHEET NO. 3

LATITUDE ..... DATUM ..... STARTED .....

DEPARTURE ..... BEARING ..... COMPLETED .....

ELEVATION ..... DIP ..... ULTIMATE DEPTH .....

DEPTH FEET	FORMATION	FORMATION
204.0 - 246.4	massive basalt flow on fine to med. grained gabbro dark greenish amphibolized in part.	
246.4 - 249.0	Trond. greyish, coarse grained, as previously. contact at 70° to C/a.	
249.0 - 290.5	Gabbro, fine to med. grained, a diabasic texture in parts.	
290.5 - 297.8	Trond. porphyry, coarse grained, as previously. contacts at 70° to C/a.	
297.8 - 350.0	Gabbro, dk. greenish. fine to med. grained, becomes progressively coarse grained toward 350.0'	
	350.0 ft. End of Hole	

DRILLED BY Norisette D. D.

SIGNED C. J. Kuryliw

CHESTER J. KURYLIW, M.Sc., P.ENG.
CONSULTING GEOLOGIST

CLAIM 590680
B.Q CORE S[illegible]
CORE STORED AT

DIAMOND DRILL RECORD
MISTANGO CONS. RES. LTD.

Sampling -

HOLE NO. M-86-1 SHEET NO. 1

LATITUDE 0 + 20N DATUM STARTED MAY 16, 1986

DEPARTURE 111 + 20W BEARING DUE SOUTH COMPLETED MAY 20, 1986

ELEVATION LAKE + 4.0 DIP -40° @ 300'- ULTIMATE DEPTH 350.0

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	OZS. Au
22.0 - 25.2	Irond. slightly silicified, 3% py.	1404			3.2	TR.
41.0 - 43.0	Irond. partly silicified 2% py, 1% po	1405			2.0	TR.
100.4 - 101.4	Irond. porphyry, 2% py in qtz. carb. fracture and a narrow streak of chalco pyrite.	1406			1.0	Tr
105.8 - 106.6	Irond. porphyry, brecciated, 10% qtz. carb. minor py.	1407			.8	.02
107.0 - 109.5	Rhyolitic tuff. slightly silicified 1% py.	1408			2.5	TR.
109.5 - 113.0	Rhyolitic tuff. finely banded, partly sil'd, 1% py.	1409			3.5	.01
113.0 - 116.0	Basalt lava, sheared chloritic, brecciated, 20% calcite in fractures, 3% py.	1410			3.0	TR.

DRILLED BY Morissette D. Drilling

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HOLE NO. M-86-1 SHEET NO. 2

LATITUDE ..... DATUM ..... STARTED .....

DEPARTURE ..... BEARING ..... COMPLETED .....

ELEVATION ..... DIP ..... ULTIMATE DEPTH .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	OZS. Au	
116.0 – 119.0	Lava, sheared, chloritic, 7% qtz. carb. in fractures, 2% py.	1411			3.0	Tr.	
147.2 – 150.0	10% qtz. carb. in fractures, one subpar. qtz. carb stringer carries a few specks of chalco.	1412			2.8	Tr.	

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CLAIM 590680 – B.G CORE
CORE STORAGE AT MOUSSEAU
CAMP – STURGEON LAKE

DIAMOND DRILL RECORD

MISTANGO CONS. RES. LTD.

Geology –

HOLE NO M-86-2 SHEET NO. 1

LATITUDE	2 + 80 N	DATUM		STARTED	MAY 20, 1986
DEPARTURE	111 + 00 W	BEARING	NORTH	COMPLETED	MAY 22, 1986
ELEVATION	LAKE + 4.0	DIP	– 40° @ 290' – 38½°	ULTIMATE DEPTH	297.0

DEPTH FEET	FORMATION	FORMATION
0 – 8.0	Casing	
8.0 – 97.8	Porphyritic granite to granodiorite – 50 – 60% feldspar phenocrysts. The feldspar has light greenish waxy appearance and some feldspar phenocrysts are pinkish. 10% qtz. phenocrysts, the ground mass is dk. greyish and is composed of feldspar qtz. and minor ferromagnesians.	
97.8 – 101.8	Basalt, dk. greenish, fine grained, massive.	
101.8 – 131.8	Granitic porphyry, med. to coarse grained as above.	
131.8 – 138.2	Basalt lava, dk. greenish, fine grained with irreg. calcitic hairline fractures.	
138.2 – 139.6	Granitic, porphyry, coarse grained	
139.6 – 147.3	Basalt lava, dk. greenish, fine grained, a few calcitic hairline fractures.	

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HOLE NO. M-86-2 SHEET NO. 2

LATITUDE ..... DATUM ..... STARTED .....

DEPARTURE ..... BEARING ..... COMPLETED .....

ELEVATION ..... DIP ..... ULTIMATE DEPTH .....

DEPTH FEET	FORMATION	FORMATION
147.3 - 152.5	Granitic porphyry, as previously described.	
152.5 - 153.3	Basalt lava, 5% calcitic fractures.	
153.3 - 187.0	Granite - porphyry, coarse grained with some lt. yellowish-green feldspar phenocrysts. Similar to previous sections.	
187.0 - 189.0	Basalt lava, 10% qtz. carb. in bands, minor pyrite.	
189.0 - 219.0	Granite-porphyry, 30% feldspar phenocrysts, 70% greyish groundmass composed of feldspar qtz and minor ferromagnesian.	
219.0 - 237.3	Basaltic lava, dk. greenish, fine grained, some calcitic qtz. filled fractures.	
237.3 - 296.0	Granite porphyry coarse grained as previous	
	296.0 ft. End of Hole	

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DIAMOND DRILL RECORD

MISTANGO CONS. RES. LTD.

Sampling –

HOLE NO. M-86-2 SHEET NO. 1

LATITUDE 2+80 N | DATUM | STARTED May 20, 1986

DEPARTURE 111+00W | BEARING NORTH | COMPLETED May 22, 1986

ELEVATION LAKE + 4'0 | DIP -40° | ULTIMATE DEPTH 297'0

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	OZS. Au	
187.0-189.0	Basalt lava, 10% gtz. carb. in bands, minor pyrite.	1413			2.0	.01	
214.7-215.2	Granite porphyry. a ½" gtz. vein at 50° to C/a. Carries 50% massive PO. with traces of chalco.	1414			.5	Tr.	
219.0-219.8	Basalt lava, a ½" dk. grey gtz. veinlet at 45° to C/a 30% massive py. in veinlet.	1415			.8	Tr.	
237.0-237.8	Contact area between lava and granite porphyry. 20% gtz. in stringers.	1416			.8	Tr.	
257.5-258.5	Granite porphyry. Two ½" gtz. veinlets at 50° to C/a.	1417			1.0	Tr.	

DRILLED BY Moniette D. D.

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CLAIM 590681
13.Q CORE SIZE
STORED AT A. MOUSSEAU
CAMP- STURGEON LAKE

DIAMOND DRILL RECORD

MISTANGO CONS. RES. LTD.

HOLE NO. M-86-3 SHEET NO. 1

LATITUDE 1+40 S' | DATUM | STARTED May 22 - 1986
DEPARTURE 92+00 W | BEARING DUE SOUTH | COMPLETED May 24, 1986
ELEVATION LAKE +4'0 | DIP -40° @ 290' -36° | ULTIMATE DEPTH 347'0

DEPTH FEET	Geology - FORMATION	FORMATION
0 - 8.0	Casing	
8.0 - 48.5	Gabbro, dk. greenish, med. grained	
48.5 - 105.6	Andesite to Basalt lava, dk. greenish, fine grained, laced with a network of 5-10% qtz. carbonate irregular stringers. Some narrow tuffaceous sections along pillow rims.	
105.6 - 160.0	Gabbro, dk. greenish fine to med. grained, relatively massive contact at 160'0 is 25° to Core axis.	
160.0 - 164.8	Andesite - Basalt lava. an inclusion between Two Gabbro intrusives with qtz. veins at each contact, some patches of PO. with traces of chalco	
164.8 - 347.0	Gabbro, med. grained, somewhat massive appearance.	
	347'0 End of Hole	

DRILLED BY Morissette D. Drilling

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CLAIM 5[redacted]681
BQ CORE SIZE
CORE STORED AT
MOUSSEAU CAMP
STURGEON LAKE.

DIAMOND DRILL RECORD

MISTANGO CONS. RES. LTD.

HOLE NO M-86-3 SHEET NO. 1

LATITUDE 1+40 S' | DATUM | STARTED May 22, 86

DEPARTURE 92+00 W | BEARING South | COMPLETED May 24, 86

ELEVATION LAKE +4'.0 | DIP -40° | ULTIMATE DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	OZS. Au	
	Sampling -						
55.5 - 58.4	Strongly carbonitized lava, some epidote alt'n, a few specks of Po.	1418			2.9	Tr.	
74.7 - 75.7	Lava, Two ½" qtz. veinlets at 45° to C/a and some sirey. qtz. carb. in a lace net, several specks of Po. and chalco.	1419			1.0	.01	
80.0 - 82.0	Lava, 10% qtz. carb. in a laced network ½% Po. a few specks of chalco.	1420			2.0	Tr.	
103.8 - 105.6	Lava, 10% qtz. carb. in a laced network ½% Po. several specks of chalco.	1421			1.8	Tr.	
160.0 - 161.5	Lava, with a 10" white qtz. carb vein, carries some streaks of Po. and a Trace of chalco, some	1422			1.5	Tr.	

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DIAMOND DRILL RECORD

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HOLE NO. M-86-3 SHEET NO. 2

LATITUDE ..... DATUM ..... STARTED .....

DEPARTURE ..... BEARING ..... COMPLETED .....

ELEVATION ..... DIP ..... ULTIMATE DEPTH .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	OZS. Au	
	patches of qtz. with coarse crystals of pyrite						
161.5 - 163.5	Lava, 5% qtz. carb in a laced network, some patches of PO. in the carb.	1423			2.0	Tr.	
163.5 - 164.8	White qtz. carb. vein, a few specks of PO.	1424			1.3	TR.	
296.5 - 297.2	Quartz - carb vein, glassy qtz. a few specks of PO.	1425			.7	Tr	
328.0 - 328.6	A 1" glassy qtz. vein, 2% PO. trace of Galena in the vein	1426			.6	Tr.	

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CLAIM 590673
B-Q CORE SIZE
CORE STORED AT
MOUSSEAU CAMP
STURGEON LAKE

DIAMOND DRILL RECORD
MISTANGO CONS. RES. LTD.

Geology

HOLE NO. M-86-4 SHEET NO. 1

LATITUDE 240 ON | DATUM | STARTED May 25, 1986
DEPARTURE 17 + 50E | BEARING DUE NORTH | COMPLETED May 26, 1986
ELEVATION LAKE + 5'0 | DIP -70° @ 200' -68° | ULTIMATE DEPTH 203'0

DEPTH FEET	FORMATION	FORMATION
0 - 4.0	Casing	
4.0 - 25.7	Fragmental rock, dacite to rhyolite composition, greenish grey, 10-20% fragments of altered agglomerate with some very angular fragments of rhyolite - dacite that resemble breccia fragments. 20-30% phenocryst-like fragments of greyish quartz 1-2% disseminated pyrite (this rock may be mylonite)	
25.7 - 26.7	Fine grained greyish phase of fragmental agglomerate with a possible contact at 40° to core axis at 25.7 ft.	
26.7 - 42.7	Agglomerate breccia, greenish-grey, 20% coarse rhyolitic fragments, 2% pyrite, a few opalescent blue qtz. phenocrysts.	
42.7 - 56.0	Fragmental - agglomerate tuff, fine to med. grained, greyish with no apparent stratification	

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HOLE NO. M-86-4 SHEET NO. 2

LATITUDE ..... DATUM ..... STARTED .....

DEPARTURE ..... BEARING ..... COMPLETED .....

ELEVATION ..... DIP ..... ULTIMATE DEPTH .....

DEPTH FEET	FORMATION	FORMATION
56.0 - 87.0	Fine agglomerate breccia, greenish-grey, with fragments in the 2 - 5 mm. diameter range, 1% disseminated pyrite. This rock is dacite to rhyolite composition. The agglomerate fragments become progressively coarser towards 87.0 feet.	
87.0 - 133.0	Rhyolitic black sediment, finely banded at 35-40° to the core axis, the darker rhyolitic black sediment would form a strong E-M conductor, 1-2% pyrite and pyrrhotite, partly along the banding, traces of chalcopyrite in hairline calcitic fractures.	
133.0 - 184.8	Coarse dacitic to rhyolitic agglomerate breccia, minor disseminated pyrite.	
184.8 - 203.0	Rhyolitic black sediment, finely banded at 40° to core axis, minor pyrite.	
	203.0' End of Hole	

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DIAMOND DRILL RECORD

MISTANGO CONS. RES. LTD.

Sampling

HOLE NO. M-86-4 SHEET NO. 1

LATITUDE 2+00N DATUM STARTED May 25, 1986

DEPARTURE 17+50 E BEARING DUE NORTH COMPLETED May 26, 1986

ELEVATION LAKE + 5'.0 DIP -70° ULTIMATE DEPTH 203'.0

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	OZS. Au	
21.0 - 21.5	a ½" qtz. veinlet runs @ 55° to core axis, minor pyrite.	1400			.5	TR.	
86.0 - 87.3	Coarse agglomerate at contact with black sediment, 3% py.	1401			1.3	TR.	
133.0 - 134.4	Coarse agglomerate at contact with black sediment, 2% py.	1402			1.4	TR.	
159.0 - 162.0	Coarse agglomerate, slightly siliceous 1% py. (a character sample)	1403			3.0	TR.	

DRILLED BY Morissette Diamond Drilling

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CLAIM 590673
B.O CORE SIZE
STORED AT MOUSSEAU
CAMP- STURGEON LAKE

DIAMOND DRILL RECORD
MISTANGO CONS. RES. LTD.

HOLE NO M-86-5 SHEET NO. 1

LATITUDE 2+00N DATUM STARTED May 26, 1986
DEPARTURE 17+53E BEARING DUE EAST COMPLETED May 28, 1986
ELEVATION LAKE + 5.0 DIP -50° @ 200' - 46° ULTIMATE DEPTH 297.0

DEPTH FEET	FORMATION	FORMATION
	Geology-	
0 - 4.0	Casing	
4.0 - 73.5	Fragmental agglomerate - Breccia, rhyolite to Dacite composition, with angular and rounded fragments of rhyolite, Granodiorite and quartz. The quartz grains are whitish with an equal number of opalescent blue quartz, 2% disseminated pyrite.	
73.5 - 74.2	Greyish finely banded sediment, banding at 30° to C/a	
74.2 - 79.0	Rhyolite - Dacite agglomerate breccia, as previous.	
79.0 - 90.0	Greyish black sediment and agglomerate (Note) the drill hole goes in and out partly along the irregular contact between both rock formations	
90.0 - 152.5	Black sediment, finely banded at 20-30° to C/a. The black sediment is rich in carbon (Graphite) which would be marked by a strong E-M conductor	

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HOLE NO. M-86-5 SHEET NO. 2

LATITUDE ..... DATUM ..... STARTED .....

DEPARTURE ..... BEARING ..... COMPLETED .....

ELEVATION ..... DIP ..... ULTIMATE DEPTH .....

DEPTH FEET	Geology - FORMATION	FORMATION
152.5 - 178.6	Rhyolite flow? Lt. greenish grey, fine grained, massive with some Calcite filled hairline fractures.	
178.6 - 190.0	Rhyolite - Dacite agglomerate breccia, 1% py.	
190.0 - 208.0	Dacitic lava flow with some irregular sections of rhyolitic agglomerate.	
208.0 - 212.2	Gabbro dyke altered with a network of calcite filled fractures	
212.2 - 219.3	Rhyolitic agglomerate, fine grained fragments	
219.3 - 226.3	Gabbro dyke, dark greenish, fine grained, minor calcite minor pyrite	
226.3 - 238.5	Rhyolite flow with some interbanded rhyolitic tuff. Some rare pyrite	

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HOLE NO M-86-5 SHEET NO. 3

LATITUDE ..... DATUM ..... STARTED .....

DEPARTURE ..... BEARING ..... COMPLETED .....

ELEVATION ..... DIP ..... ULTIMATE DEPTH .....

DEPTH FEET	Geology FORMATION	FORMATION
238.5 – 260.5	Black sediment, finely banded at 30°-45° to core axis high carbon content (Graphitic) this formation would be marked by a strong E.M conductor, pyrite is relatively rare.	
260.5 - 267.7	Rhyolitic to Dacitic agglomerate, finer grained texture than previously	
267.7 - 278.0	Black sediment, finely banded at 30-45° to Core axis, minor pyrite.	
278.0 - 280.5	Rhyolitic flow, lt. greyish, fine grained.	
280.5 - 284.0	Rhyolitic agglomerate, some coarse rhyolitic fragments.	
284.0 - 297.0	Rhyolitic flow with a few narrow sections of rhyolitic agglomerate.	
	297.0 End of Hole	

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CLAIM 5[illegible]673

DIAMOND DRILL RECORD

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HOLE NO. M-86-5 SHEET NO. 1

LATITUDE 2+00N DATUM STARTED May 26, 1986

DEPARTURE 17+53E BEARING Due East COMPLETED May 28, 1986

ELEVATION Lake +5'.0 DIP -50° ULTIMATE DEPTH

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	OZS. Au	
	Sampling -						
31.5 - 33.3	(Character sample) slightly silicified agglomerate breccia, 3% py.	1427			1.8	Tr.	
57.5 - 60.5	(Character sample) Agglomerate, a few narrow qtz. stringers some of which carry streaks of Po. and some specks of chalco.	1428			3.0	Tr.	
74.6 - 77.0	(Character sample) agglomerate 2% py. ½% Po. traces of chalco	1429			2.4	Tr.	
211.0 - 212.0	30% silicification 2% py, 1% Po Rhyolitic agglomerate, fairly grained fragments.	1430			1.0	Tr.	

DRILLED BY Morissette D. Drilling

SIGNED C. J. Kurylw

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CLAIM 590678
BQ CORE SIZE
CORE STORED
AT MOUSSEAU CAMP
STURGEON LAKE

DIAMOND DRILL RECORD

MISTANGO CONS. RES. LTD.

HOLE NO. M-86-6 SHEET NO. 1

LATITUDE 500' S OF No1. Post 590678 DATUM STARTED JUNE 12, 1986

DEPARTURE 400' W OF No1. Post 590678 BEARING S-45° W COMPLETED JUNE 15, 1986

ELEVATION LAKE + 4'.0 DIP COLLAR @ -50°, @ 200' - 44° @ 500' - 36° ULTIMATE DEPTH 516'.0

DEPTH FEET	Geology FORMATION	FORMATION
0-8.0	Overburden	
0-10.0	Casing	
8.0-10.0	Felsic dyke, greyish, fine grained, 2% pyrite, sheared at 50° to core axis, contact at 60° to core axis.	
10.0-61.6	Rhyolitic lapilli tuff, composed of 60% lapilli granules that are buff coloured. The granules are predominately 3-5 mm. diameter with some fragments up to 7 mm. diam. The ground mass is rhyolite-carbonate-fuchite (also called mariposite). A few isolated patches of massive pyrite.	
61.6-63.0	Quartz-porphyry dyke, greyish, fine grained, sericitic with contacts at 60° to C/a (This is a fine grained phase of quartz-porphyry dyke)	
63.0-132.0	Lapilli tuff, as previously described, approximately bedded at 60° to C/a.	
132.0-138.0	A qtz porphyry dyke, highly sericitic, buff coloured. (This is a qtz. porphyry dyke) The contact of this dyke at 132.0 is at 60° to the C/a it then undulates	

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HOLE NO. M-86-6 SHEET NO. 2

LATITUDE ..... DATUM ..... STARTED .....

DEPARTURE ..... BEARING ..... COMPLETED .....

ELEVATION ..... DIP ..... ULTIMATE DEPTH .....

DEPTH FEET	Geology: FORMATION	FORMATION
	core and out of the core to 138.0	
138.0 - 169.0	Lapilli tuff as previously described.	
169.0 - 172.6	Quartz porphyry dyke, fine grained, buff, sericitic	
172.6 - 175.4	Carb'd lapilli tuff. its contacts with the quartz porphyry run irregularly at about 15° to the c/a	
175.4 - 196.5	Quartz porphyry dyke, lt. buff grey, sericitic.	
196.5 - 197.5	a talcose fault that runs at 15° to the c/a filled with qtz. carbonate rubble, minor talc, some maripositc.	
197.5 - 244.5	Lapilli tuff similar to the description across the start of the drill hole.	
244.5 - 244.9	Quartz porphyry dyke, fine grained, sericitic, contacts at 60° to c/a.	

DRILLED BY Monette D. Drilling

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DIAMOND DRILL RECORD
MISTANGO CONS. RES. LTD.

HOLE NO. M-86-6 SHEET NO. 3

LATITUDE ..... DATUM ..... STARTED .....

DEPARTURE ..... BEARING ..... COMPLETED .....

ELEVATION ..... DIP ..... ULTIMATE DEPTH .....

DEPTH FEET	Geology: FORMATION	FORMATION
244.9 – 282.2	Lapilli tuff, Buff with minor manipoite, similar to previous description.	
282.2 – 283.0	Quartz porphyry dyke, contacts at 60° to C/a, greyish, fine grained, sericitic.	
283.0 – 314.7	Lapilli tuff, with buff lapilli, most of which are 3-5 mm. in diam. with some lapilli up to 8 mm. diam. some graded bedding occurs in the lapilli granules, some of which have original structures similar to cross bedding at 285.0 feet. Bedding at 65° to C/a.	
314.7 – 315.7	Quartz porphyry dyke, greyish, fine grained, sericitic, 5% qtz. phenocrysts, 4 mm. diam.	
315.7 – 370.1	Lapilli tuff with 5-10% blebs, bands, and blocks of greyish qtz. porphyry that intrudes the lapilli tuff to form an agglomerate like appearance.	

DRILLED BY Maisette D. Drilling

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CONSULTING GEOLOGIST

DIAMOND DRILL RECORD

MISTANGO CONS. RES. LTD.

HOLE NO. M. 86-6 SHEET NO. 4

LATITUDE ..... DATUM ..... STARTED .....

DEPARTURE ..... BEARING ..... COMPLETED .....

ELEVATION ..... DIP ..... ULTIMATE DEPTH .....

Geology:

DEPTH FEET	FORMATION	FORMATION
370.7 - 406.2	Dioritic dyke - greyish, fine grained.	
406.2 - 516.0	Lapilli tuff as previously described with 10-15% blobs, irregular patches and blocks of intruding grey qtz. porphyry. No evident increase in qtz. & Carbonate alt'n	
	516.0' End of Hole	

DRILLED BY Marcotte D. Drilling

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DIAMOND DRILL RECORD

MISTANGO CONS. RES. LTD.

Sampling:

HOLE NO. M-86-6 SHEET NO. 1

LATITUDE _____ DATUM _____ STARTED _____

DEPARTURE _____ BEARING _____ COMPLETED _____

ELEVATION _____ DIP _____ ULTIMATE DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	OZS. Au
15.8 - 17.1	Lapilli tuff, 3% py. in patches, 5% gtz. carb. alt'n.	1431			1.3	
37.5 - 40.0	4% pyrite as massive replacement of lapilli and groundmass. 5% gtz. carb. alt'n, some hairline dark grey gtz. fractures run at 5° - 10° to core axis.	1432			2.5	
40.0 - 41.3	Lapilli tuff, a streak of massive pyrite 3" long with some grey gtz. along hairline fractures in the pyrite. The massive py. runs at 50° to the C/a on one side and 25° to the C/a on the other side.	1433			1.3	
48.4 - 49.3	Lapilli tuff, a ½" gtz. carb. veinlet at 30° to C/a, carries streaks of Py. and Po. Some large blebs of silicification with heavy Po. traces of sphalerite in veinlet.	1434			.9	

DRILLED BY Moniette D. Drilling

SIGNED C. J. Kurtyliw

CHESTER J. KURTYLIW, M.Sc., P.ENG.
CONSULTING GEOLOGIST

DIAMOND DRILL RECORD

MISTANGO CONS. RES. LTD.

HOLE NO. M 86 - 6 SHEET NO. 2

Sampling

LATITUDE ..... DATUM ..... STARTED .....

DEPARTURE ..... BEARING ..... COMPLETED .....

ELEVATION ..... DIP ..... ULTIMATE DEPTH .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	OZS. Au	
51.3 - 54.8	Lapilli tuff with streaks of massive pyrite, at 2" and 1/2" wide which run at 60° to the c/a parallel to the approximate bedding, some nodules of massive pyrite with traces of chalco bcaus in parts. a total of 10% py. in this sample.	1435			3.5		
69.5 - 70.8	7% qtz. carb in narrow stringers at 60° to c/a, approximately parallel to bedding.	1436			1.3		
74.4 - 75.9	Lapilli tuff, a 3/4" streak of massive pyrite along bedding. a narrow qtz. carb. stringer follows the core.	1437			1.5		
91.0 - 93.0	Lapilli tuff - a 1" streak of massive py. with a qtz. carb matrix, some streaks of partial	1438			2.0		

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Sampling

HOLE NO. M-86-6 SHEET NO. 3

LATITUDE ..... DATUM ..... STARTED .....

DEPARTURE ..... BEARING ..... COMPLETED .....

ELEVATION ..... DIP ..... ULTIMATE DEPTH .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	OZS. Au	
	replacement of lapilli granules with pyrite. a totals of 7% py. A clear qtz. filled fracture 1/4" thick runs at 20° to c/a.						
99.2 - 101.0	Lapilli tuff, a 1" streak of massive py. at 60° to c/a with minor associated qtz. carb. alt'n, some partial replacement of lapilli with nodules of py. a total of 6% py.	1439			1.8		
133.0 - 133.7	Lapilli tuff with a 1" streak of 50% pyrite along the approximate bedding.	1440			.7		
141.6 - 143.6	Lapilli tuff - 10% py. that occurs as a partial replacement of lapilli nodules	1441			2.0		

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Sampling

HOLE NO. M86-6 SHEET NO. 4

LATITUDE ..... DATUM ..... STARTED .....

DEPARTURE ..... BEARING ..... COMPLETED .....

ELEVATION ..... DIP ..... ULTIMATE DEPTH .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	OZS. Au	
143.6 - 146.0	Lapilli tuff. 40% py. largely a replacement of lapilli nodules also some mineralization of ground mass. The groundmass is 50% gtz. carb. (This mineralization appears to occur structurally in an embayment of the previous sericitic gtz. porphyry).	1442			2.4		
154.2 - 157.2	Lapilli tuff with a gtz. carb. vein that runs along half the core and carries a few rare specks of chalco. 2% Py. in the adjoining lapilli Tuff.	1443			3.0		Ag.
157.2 - 158.2	Lapilli tuff with a ½" streak of massive pyrite in a gtz. carb. vein that follows the core. The massive py. streak carries 1% streaks of a dark fine grained purplish-grey mineral that is	1444			1.0		

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Sampling

HOLE NO. M-66-6 SHEET NO. 5

LATITUDE ..... DATUM ..... STARTED .....

DEPARTURE ..... BEARING ..... COMPLETED .....

ELEVATION ..... DIP ..... ULTIMATE DEPTH .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	OZS. Au	
	most likely galena but may be either molybdenite or tetrahedrite.						
158.2 - 159.2	Lapilli tuff, a ½" streak of massive py. along a clear greyish qtz. carb. veinlet runs along the core and carries 1% streaks of fine greyish mineral galena? as in previous sample.	1445			1.0		Ag.
159.2 - 161.0	Lapilli Tuff, 30% qtz. carb. alt'n 7% Py.	1446			1.8		
161.0 - 163.1	Lapilli tuff, 5% carbonitized. 10% Pyrite in masses.	1447			2.1		
163.1 - 166.0	Lapilli tuff - 15% qtz. carb'd 3% Py.	1448			2.9		
166.0 - 168.9	Lapilli tuff, 20% carb'd 3% Py.	1449			2.9		

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Sampling

HOLE NO. M86-6 SHEET NO. 6

LATITUDE ..... DATUM ..... STARTED .....

DEPARTURE ..... BEARING ..... COMPLETED .....

ELEVATION ..... DIP ..... ULTIMATE DEPTH .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	OZS. Au	
172.6 - 175.4	Lapilli tuff. 50% carb'd, 1% py. traces of Chalco.	1450			2.8		
196.5 - 197.5	Quartz carb. rubble along a fault that runs at about 15° to C/a.	1451			2.0		
197.5 - 199.7	Lapilli tuff with a qtz. carb. veinlet that runs at 15° to C/a. some green mariposite, 2% py. traces of chalco.	1452			2.2		
216.0 - 216.5	A 1" streak of 60% pyrite replacing nodules across the core.	1453			.5		
217.3 - 219.2	Lapilli tuff. 4% pyrite.	1454			1.9		
220.9 - 222.2	Lapilli tuff. 10% qtz. carb. stringers one stringer runs right along the core. 1% py.	1455			1.3		

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HOLE NO. M86-6 SHEET NO. 7

Sampling

LATITUDE ..... DATUM ..... STARTED .....

DEPARTURE ..... BEARING ..... COMPLETED .....

ELEVATION ..... DIP ..... ULTIMATE DEPTH .....

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	OZS. Au	
	Sampling:						
250.8 - 251.5	a 2" streak of 50% massive pyrite in a grayish gtz. carb. groundmass.	1456			.7		
256.0 - 257.3	Lapilli tuff, Two 1" gtz. carb. veins at 70° to c/a, minor Py.	1457			1.3		
261.3 - 261.9	a 1/2" gtz. carb. veinlet runs at 30° to c/a, 1% Py.	1458			.6		
277.0 - 277.9	20% bleached gtz. carb. at 25° to c/a 2% Py.	1459			.9		
301.3 - 304.8	a 3/4" gtz. veinlet runs along the core with a trace of chalco. minor pyrite.	1460			3.5		
206.3 - 206.9	Lapilli tuff. a 1/2" streak of massive Py. along the bedding. 10% Py. in Sample.	1461			.6		

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DIAMOND DRILL RECORD

MISTANGO CONS. RES. LTD.

Sampling.

HOLE NO. M-86-6 SHEET NO. 8

LATITUDE ..... DATUM ..... STARTED .....

DEPARTURE ..... BEARING ..... COMPLETED .....

ELEVATION ..... DIP ..... ULTIMATE DEPTH .....

Sampling:

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	OZS. Au	
345.1 - 345.8	A 1/4" grey qtz. veinlet that runs at 20° to C/a The vein carries several coarse patches of chalco pyrite.	1462			.7		
370.3 - 370.8	A grey carb. vein, minor Py. a few specks of chalco.	1463			.5		
406.2 - 409.3	Lapilli tuff with 25% qtz. carb. alt'n, minor pyrite.	1464			3.1		
413.8 - 414.7	Two 1/2" qtz. stringers, that run at 60° to C/a, a few specks of chalco	1465			.9		

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CLAIM Pa. 612421
BQ CORE SIZE
CORE STORED AT MOUSSEAU CAMP. STURGEON LAKE.

DIAMOND DRILL RECORD

MISTANGO CONS. RES. LTD.

GEOLOGY

HOLE NO. M-86-7 SHEET NO. 1

LATITUDE 24+50 S | DATUM | STARTED June 16, 1986

DEPARTURE 86+00 W | BEARING DUE NORTH | COMPLETED June 19, 1986

ELEVATION LAKE + 4.0 | DIP Collar -45° @ 300' -44°, @ 490' -42° | ULTIMATE DEPTH 497.0

DEPTH FEET	FORMATION	FORMATION
0 - 20.0	Casing in overburden	
20.0 - 100.0	Basalt lava, greenish grey, massive, with a few irregular calcite filled fairline stringers	
100.0 - 135.5	Basalt lava, greenish, fractured and blocky. 2-5% qtz-calcite filled fractures	
135.5 - 136.5	Gabbro dyke, fine grained, chilled contacts at 40° to core axis.	
136.5 - 147.9	Basalt lava, 5-10% fractured and filled with irreg. qtz. calcite stringers some of which carry some Po. and minor Chalcopyrite.	
147.9 - 148.3	A grey qtz. vein at 60° to Ca it carries 5% chalco in the qtz. with 5% Po. in the wallrocks of the qtz.	
148.3 - 156.4	Basalt lava, with a few tongues of feldspar porphyry and some fractures carry minor Po and chalco in a groundmass of greyish qtz.	

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GEOLOGY

HOLE NO. M-56-7 SHEET NO. 2

LATITUDE _____ DATUM _____ STARTED _____

DEPARTURE _____ BEARING _____ COMPLETED _____

ELEVATION _____ DIP _____ ULTIMATE DEPTH _____

DEPTH FEET	FORMATION	FORMATION
156.4 - 160.4	Quartz - feldspar porphyry dyke, 25% phenocrysts of white feldspar up to 5 mm. diam., 5% coarse quartz phenocrysts.	
160.4 - 162.6	Basalt lava, dark greenish, fine grained	
162.6 - 163.3	Quartz porphyry dyke, 20% qtz. phenocrysts, 10% feldspar phenocrysts, greyish to bluish grey.	
163.3 - 164.7	Basalt lava, dark greenish, massive	
164.7 - 170.0	Quartz porphyry dyke, contact at 60° to core, bluish grey, 20% qtz. phenocrysts, 10% feldspar phenocrysts.	
170.0 - 176.8	Basalt lava, dk. greenish, blocky.	
176.8 - 202.0	Greyish to bluish grey qtz. feldspar porphyry dyke.	
202.0 - 206.0	Basalt lava, greenish, fine grained partly intruded with qtz. feldspar porphyry.	

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GEOLOGY

HOLE NO M-86-7 SHEET NO. 3

LATITUDE _____ DATUM _____ STARTED _____

DEPARTURE _____ BEARING _____ COMPLETED _____

ELEVATION _____ DIP _____ ULTIMATE DEPTH _____

DEPTH FEET	FORMATION	FORMATION
206.0 - 215.5	Greyish to blueish grey qtz. feldspar porphyry dyke	
215.5 - 224.0	Basalt lava, dk. greenish, some epidote alt'n, also some amygdules which ..... indicates pillowed lava flows	
224.0 - 247.0	Feldspar porphyry dyke, coarse grained. This may be a tongue of granitic intrusion.	
247.0 - 250.5	Basalt lava, greenish, blocky, minor qtz. carb. stringer development.	
250.5 - 259.0	Quartz - porphyry dyke, fine grained siliceous, sericitic in part.	
259.0 - 260.0	Basalt lava, sheared, mud fault zone that runs at 60°-80° To the C/a.	
260.0 - 275.0	Basalt lava, strongly sheared and qtz. carb'd. The qtz. carbonate comprises up to 25% of the core	

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GEOLOGY

HOLE NO. M-86-7 SHEET NO. 4

LATITUDE _____ DATUM _____ STARTED _____

DEPARTURE _____ BEARING _____ COMPLETED _____

ELEVATION _____ DIP _____ ULTIMATE DEPTH _____

DEPTH FEET	FORMATION	FORMATION
275.0 - 302.0	Basalt lava, dk. greenish, fine grained with numerous hairline fractures filled with calcite	
302.0 - 330.0	Gabbro, dk. greenish, med. grained. Note: a pink glassy granitic tongue follows along the core at 307.0 ft.	
330.0 - 331.0	Dyke, light greenish, andesitic with contacts at 60° to c/a.	
331.0 - 334.3	Gabbro, dark greenish, fine to med. grained	
334.3 - 335.0	A granitic dyke, pinkish, med. grained, contacts at 35° to c/a.	
335.0 - 338.3	Gabbro, dk. greenish, med. grained.	
338.3 - 344.5	Dyke, lt. greenish grey, andesitic	
344.5 - 362.0	Gabbro, dk. greenish, fine to med. grained.	

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GEOLOGY

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GEOLOGY

HOLE NO. M-86-7 SHEET NO. 3

LATTITUDE ..... DATUM ..... STARTED .....

DEPARTURE ..... BEARING ..... COMPLETED .....

ELEVATION ..... DIP ..... ULTIMATE DEPTH .....

DEPTH FEET	FORMATION	FORMATION
362.0 - 363.4	Pink granitic dyke, contacts at 60° to C/a, some silicifications and qtz. carb. alt'n.	
363.4 - 403.5	Gabbro, dk. greenish grey, fine to med. grained	
403.5 - 404.0	Basalt lava - an inclusion between gabbro dykes.	
404.0 - 416.3	Gabbro, dk. greenish grey, fine to med. grained.	
416.3 - 417.7	A Granitic dyke, pinkish, contacts at 60° to C/a.	
417.7 - 444.0	Gabbro, dk. greenish grey, fine to med. grained.	
444.0 - 452.2	Pink granitic dyke, med. grained, contacts at 70° to C/a.	
452.2 - 467.5	Gabbro, dk. greenish, fine grained.	
467.5 - 470.0	Basalt lava, greenish, fine grained with a few calcite stringers, contact with gabbro at 35° to C/a.	

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GEOLOGY

HOLE NO. M-86-7 SHEET NO. 6

LATITUDE _____ DATUM _____ STARTED _____

DEPARTURE _____ BEARING _____ COMPLETED _____

ELEVATION _____ DIP _____ ULTIMATE DEPTH _____

DEPTH FEET	FORMATION	FORMATION
470.0 - 471.5	Some pink granitic tongues along edge of glassy gte. zone that it is relatively barren.	
471.5 - 478.1	Basalt lower dk. greenish fine grained, a few gte. carb. filled fractures.	
478.1 - 487.7	Gabbro dk. greenish, fine grained, somewhat massive.	
487.7 - 489.3	Pink granitic dyke.	
489.3 - 497.0	Gabbro dk greenish, fine grained, massive.	
	497.0' End of Hole	

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DIAMOND DRILL RECORD

MISTANGO CONS. RES. LTD.

SAMPLING

HOLE NO. M-86-7 SHEET NO. 1

LATITUDE _____ DATUM _____ STARTED June 16, 1986

DEPARTURE _____ BEARING _____ COMPLETED June 19, 1986

ELEVATION _____ DIP _____ ULTIMATE DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	OZS. Au	
129.7 - 130.4	Basalt lava, a 1" qtz. carb. veinlet 1% diss. chalco. Trace po.	1466			.7	Tr	
144.1 - 147.0	Basalt lava, 10% qtz. calcite in an irregular fish net pattern of veinlets, a few stringers carrying minor po. and traces of chalco.	1467			2.9	Tr	
147.0 - 147.9	Basalt lava, 10% irreg. qtz. calcite stringers, 3% po. 1/4% chalco.	1468			.9	Tr	
						Au	Ag.
147.9 - 149.3	Grey qtz. vein that runs at 60° To core axis, 5% chalco pyrite in qtz., 5% po. largely in wallrock next to quartz. A good looking vein.	1469			1.4	0.06	0.40
153.2 - 156.0	Mixed lava and feldspar porphyry 2% stringers of po. 1/4% chalco, 2% qtz. carb. in irreg. stringers.	1470			2.8	Tr	

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SAMPLING

HOLE NO. M-56-7 SHEET NO. 2

LATITUDE _____ DATUM _____ STARTED _____

DEPARTURE _____ BEARING _____ COMPLETED _____

ELEVATION _____ DIP _____ ULTIMATE DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	OZS. Au	
					1.1	Tr	
162.5 - 163.6	Quartz porphyry dyke mixed with basalt lava. 10% qtz. carb. in fractures, 1% PO. minor chalco.	1471					
247.0 - 247.7	50% qtz. carbonitized lava ½% Py. Traces of chalco.	1472			.7	Tr	
249.1 - 250.0	Basalt lava at porphyry contact, 10% silicified, 1% chalco, traces of Py and PO.	1473			.9	Tr	
260.0 - 262.9	Basalt lava, 20% qtz. carb. alt'n, minor Py. Traces of chalco.	1474			2.9	Tr	
262.9 - 265.6	Altered lava, 25% qtz. carb. in irreg. shear fractures, traces of chalco, minor Py.	1475			2.7	Tr	

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SAMPLING

HOLE NO. M-86-7 SHEET NO. 3

LATITUDE _____ DATUM _____ STARTED _____

DEPARTURE _____ BEARING _____ COMPLETED _____

ELEVATION _____ DIP _____ ULTIMATE DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	OZS. Au	
265.6 - 267.8	Basalt lava, 15% qtz. carb. in irreg. stwrs. 1% py. Traces of chalco	1476			2.2	Tr	
293.3 - 294.0	Basalt lava, 20% white qtz. stringers at 70° To core axis, minor py	1477			.7	Tr	
267.8 - 271.0	Sheared lava with shearing at 50°-60° To C/a, 10% qtz. carb. in an irreg. fishnet pattern of stringers, 1% patches of py.	1478			3.2	Tr	
271.0 - 274.5	Sheared basalt, 15% qtz. carb. in irreg. fishnet pattern of fractures, 2% blebs of py.	1479			3.5	Tr	
301.0 - 301.8	25% qtz. stringers and silicification along shearings at 70° to C/a 2% py.	1480			.8	Tr	

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SAMPLING

HOLE NO. A86-7 SHEET NO. 4

LATITUDE _____ DATUM _____ STARTED _____

DEPARTURE _____ BEARING _____ COMPLETED _____

ELEVATION _____ DIP _____ ULTIMATE DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	OZS. Au	
338.3 - 339.3	Andesitic dyke at contact with gabbro, 10% qtz. carb. 2% py. 2% po. traces of chalco.	1481			1.0	Tr	
343.7 - 344.5	Andesitic dyke near contact with gabbro, 15% qtz. carb. 3% py., traces of chalco.	1482			.8	Tr	
362.6 - 363.4	Strongly qtz. carb'd. contact between a granitic tongue and gabbro, a few specks of chalco pyrite, minor py.	1483			.8	Tr	
470.0 - 472.3	50% glassy qtz. carb. associated with a granitic tongue, looks barren.	1484			2.3	Tr	

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CLAIM P. 590687
BQ CORE SIZE

CORE STORED @ MOUSSEAU CAMP. STURGEON LAKE.

DIAMOND DRILL RECORD

MISTANGO CONS. RES. LTD.

GEOLOGY

HOLE NO. M-86-8 SHEET NO. 1

LATITUDE 17+00 S | DATUM | STARTED JUNE 20, 1986

DEPARTURE 66+00 W | BEARING DUE NORTH | COMPLETED JUNE 23, 1986

ELEVATION LAKE + 5'0 | DIP COLLAR -45° @200' @400 | ULTIMATE DEPTH 486'0

DEPTH FEET	FORMATION
0 - 6.0	Casing
6.0 - 46.0	Granite, pinkish, med. to coarse grained, equigranular texture, 15% greenish mafics in groundmass.
46.0 - 52.6	Andesitic dyke - dark greenish, fine grained, sharp chilled contacts at 46° To C/a.
52.6 - 97.8	Gabbro - dark greenish, med. grained, equigranular to diabasic texture.
97.8 - 101.3	Porphyritic granite - 20% white feldspar phenocrysts, fine grained groundmass.
101.3 - 149.0	Gabbro, dk. greenish, med. grained, equigranular to diabasic texture.
149.0 - 153.4	Andesitic dyke - lt. greenish, fine grained with chilled contact at 56° To C/a.

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GEOLOGY

HOLE NO. M86-8 SHEET NO. 2

LATITUDE _____ DATUM _____ STARTED _____

DEPARTURE _____ BEARING _____ COMPLETED _____

ELEVATION _____ DIP _____ ULTIMATE DEPTH _____

DEPTH FEET	FORMATION	FORMATION
153.4 - 226.0	Gabbro - dk. greenish - med. grained.	
226.0 - 254.0	Gabbro - peridotite, a darkish blackish green, fine to med. grained texture, no recognizable feld. spars.	
254.0 - 260.0	Andesitic dyke - lt. greenish, fine grained, partly epitotized.	
260.0 - 284.5	Gabbro - Peridotite, dk. blackish green, fine grained, some minor disseminated chalco and pyrrhotite	
284.5 - 285.0	Andesitic dyke, lt. greenish, fine grained, chilled contacts sat 60° TC c/a.	
285.0 - 289.0	Basalt, dark greenish, fine grained, massive.	
289.0 - 294.7	Feldspar porphyry dyke, greyish, 15% feldspar phenocrysts, greyish groundmass.	

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GEOLOGY

HOLE NO M-86-8 SHEET NO. 3

LATITUDE ____ DATUM ____ STARTED ____

DEPARTURE ____ BEARING ____ COMPLETED ____

ELEVATION ____ DIP ____ ULTIMATE DEPTH ____

DEPTH FEET	FORMATION
294.7-301.3	Basalt with 10% irreg. qtz. carb. in fractures
301.3-351.0	Basalt pillow lava, dk. greenish with some epitotized pillow rims, some parts were blocky to drilling.
351.0-374.0	Basalt - strongly fractured shear zone with 10%-15% qtz. carbonate in an irregular fishnet pattern. The qtz. carbonate carries some pyritel and traces of chalcopyrite. Some narrow veinlets of dk. blue-grey qtz. occur. One veinlet at 367.5 ft. carried two specks of V.G. Another veinlet at 393.0 ft. carried two specks that may be fine V.G. This structure appears to be the eastern extension of the Rainbow Island gold zone.
374.0-406.2	Basalt, a weakly fractured portion of the shear zone. It carries 5% qtz. carb in irreg. fractures

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SIGNED CHESTER J. KURYLEW, MSc., P.Eng.
CONSULTING GEOLOGIST

DIAMOND DRILL RECORD

MISTANGO CONS. RES. LTD.

GEOLOGY

HOLE NO. M-86-8 SHEET NO. 4

LATITUDE _____ DATUM _____ STARTED _____

DEPARTURE _____ BEARING _____ COMPLETED _____

ELEVATION _____ DIP _____ ULTIMATE DEPTH _____

DEPTH FEET	FORMATION	FORMATION
406.2 - 415.4	Andesitic dyke - greenish, fine grained with contacts at 50° To C/a.	
415.4 - 448.5	Basalt, dk. greenish, fine grained, minor fracturing and rare fine carb.	
448.5 - 448.9	A granitic tongue at 70° To C/a	
448.9 - 455.0	Basalt lava, dk. greenish, fine grained.	
455.0 - 455.8	Granitic tongue pinkish, coarse grained.	
455.8 - 471.4	Basalt lava, dk. greenish, fine grained, a few hairline fractured.	
471.4 - 483.0	Feldspar porphyry dyke, 20% coarse white feldspar phenocrysts in dk. greyish groundmass	
483.0 - 486.0	Basalt, dk. greenish, fine grained.	
	486.0' End of Hole	

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CONSULTING GEOLOGIST

DIAMOND D[illegible]LL RECORD

MISTANGO CONS. RES. LTD.

SAMPLING

HOLE NO M-86-8 SHEET NO. 1

LATITUDE ____ DATUM ____ STARTED ____

DEPARTURE ____ BEARING ____ COMPLETED ____

ELEVATION ____ DIP ____ ULTIMATE DEPTH ____

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	OZS. Au
254.4-255.3	Basalt lava contact zone, qtz. veinlets 1" wide, contacts at 55° to c/a, 1% Po. trace chalco.	1485			0.9	Tr
256.3-257.3	A 2" calcite vein at 55° to c/a, Traces of chalco and pyrite.	1486			1.0	Tr
298.0-301.3	Basalt, 10% irreg. qtz. carb. minor py.	1487			3.3	Tr
342.0-343.3	Basalt pillow lava, 5% qtz. carb. 1% Po. 1/2% Py.	1488			1.3	Tr
348.9-349.2	Basalt pillow lava, 5% qtz carb, 1% Po.	1489			0.6	Tr
355.0-357.5	Sheared basalt, 5% qtz. carb 2% Py. Trace chalco	1490			2.5	Tr

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DIAMOND DRILL RECORD

MISTANGO CONS. RES. LTD.

SAMPLING

HOLE NO. M-86-8 SHEET NO. 2

LATITUDE _____ DATUM _____ STARTED _____

DEPARTURE _____ BEARING _____ COMPLETED _____

ELEVATION _____ DIP _____ ULTIMATE DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	OZS. Au	
357.5-359.5	Basalt pillow lava, sheared 7% qtz. carb. 1% py. Trace chalco.	1491			2.0	Tr.	
359.5-360.4	Basalt sheared with a 1" dk. grey qtz. vein at 60° to c/a. 5% py. with specks of chalco.	1492			0.9	Tr.	
360.4-363.4	Basalt pillow lava. 7% qtz. carb. 1% py. (core stretched by drillers as marked in boxes)	1493			3.0	Tr.	
360.4-362.6	Basalt pillow lava, 10% qtz. carb. 1% py. Trace chalco.	1494			2.2	Tr.	
362.6-365.7	Basalt pillow lava, sheared 5% qtz. carb. minor py.	1495			3.1	Tr.	

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DIAMOND DRILL RECORD

MISTANGO CONS. RES. LTD.

SAMPLING

HOLE NO. M-86-8 SHEET NO. 3

LATITUDE _____ DATUM _____ STARTED _____

DEPARTURE _____ BEARING _____ COMPLETED _____

ELEVATION _____ DIP _____ ULTIMATE DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	OZS. Au	
365.7 - 367.4	Basalt pillow lava, 5% qtz. carb in irreg. fractures, 2% grey qtz. stringers, 2% py.	1496			1.7	Tr	
367.4 - 368.0	Sheared basalt pillow lava. 5% qtz - carb in irreg. fractures a 3" dk. grey qtz. vein Carries 5% py. Specks of chalco, and Two specks of V.G, one speck is quite coarse and about a 1/2 mm. diam. contacts of this vein are at 65° To C/a.	1497			0.6	0.04 0.06	} 0.05
368.0 - 369.3	Basalt pillow lava, 5% qtz. carb in irreg. fractures, minor dk. qtz - bin qtz. carb. minor py. and chalco.	1498			1.3	Tr	

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DIAMOND DRILL RECORD

MISTANGO CONS. RES. LTD.

SAMPLING

HOLE NO. M-86-8 SHEET NO. 4

LATITUDE ____ DATUM ____ STARTED ____

DEPARTURE ____ BEARING ____ COMPLETED ____

ELEVATION ____ DIP ____ ULTIMATE DEPTH ____

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	OZS. Au	
369.3-371.8	Basalt pillow lava, 5% irreg. qtz. carb, minor py.	1499			2.5	Tr	
371.8-372.8	Basalt pillow lava 15% qtz. carb. in irreg. fractures, minor dk. grey qtz. minor py. and chalco.	1500			1.0	Tr	
372.8-377.0	Basalt pillow lava, 8% qtz. carb. minor py.	1501			4.2	Tr	
377.0-380.2	Basalt pillow lava, 5% qtz. carb, minor py.	1502			3.2	Tr	
392.7-394.2	Basalt pillow lava, 5% qtz. carb. 1% py.	1503			1.5	Tr	
394.2-394.8	Basalt pillow lava, 5% qtz. carb. with a 2" dk. grey qtz. vein that carries 3% py. specks of chalco and two fine specks that may be V.G.	1504			0.6	0.18 0.18	} 0.18

DRILLED BY Morissette D. Drilling

SIGNED [signature]
CHESTER J. KURYLA, M.Sc., P.Eng.
CONSULTING GEOLOGIST

DIAMOND DRILL RECORD

MISTANGO CONS. RES. LTD.

SAMPLING

HOLE NO M-86-8 SHEET NO. 5

LATITUDE _____ DATUM _____ STARTED _____

DEPARTURE _____ BEARING _____ COMPLETED _____

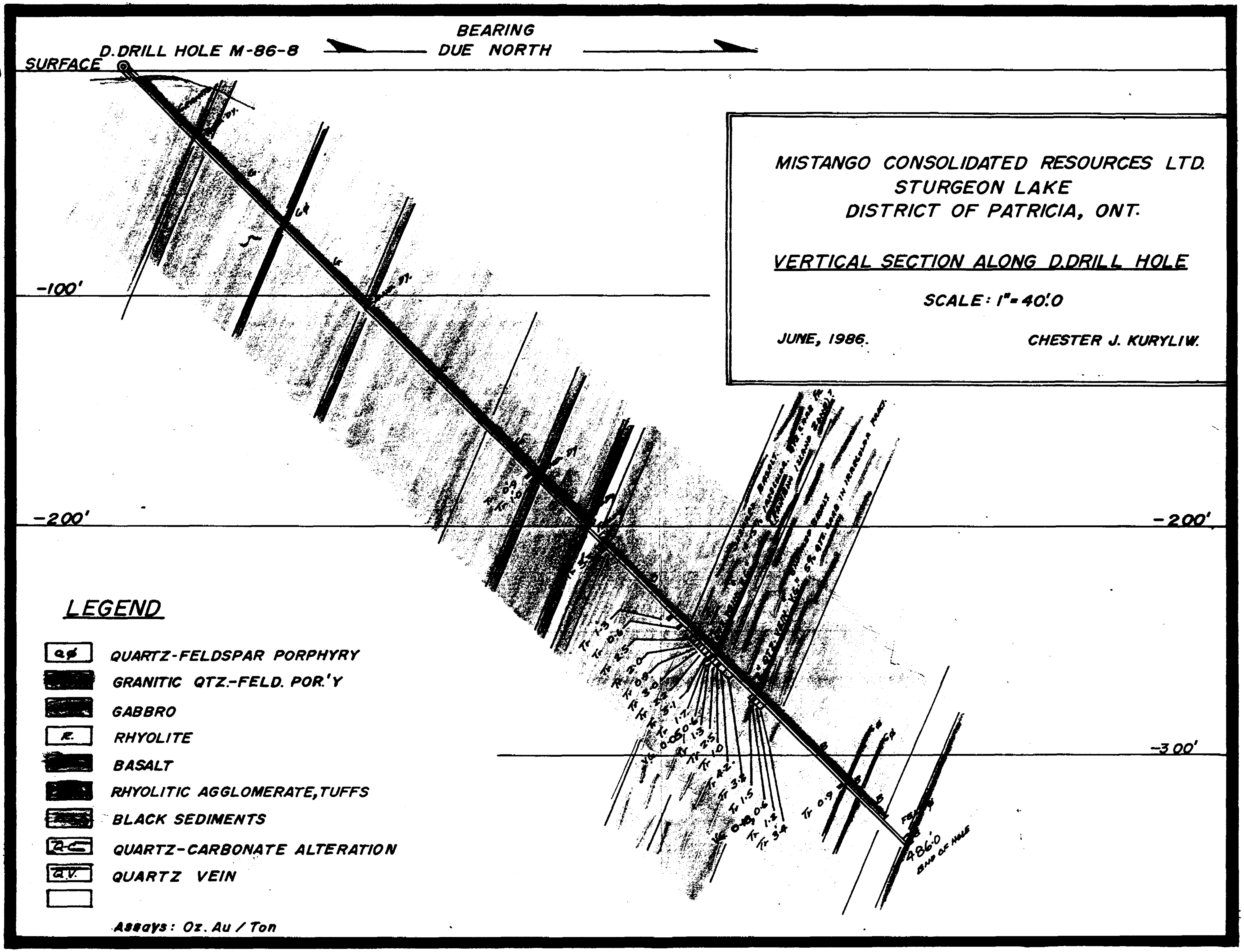
ELEVATION _____ DIP _____ ULTIMATE DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	OZS. Au	
394.8 - 396.0	Basalt pillow lava, 8% qtz. carb. 2% py.	1505			1.2	Tr	
396.0 - 399.4	Basalt pillow lava, 5% qtz. minor py.	1506			3.4	Tr	
447.5 - 448.4	Basalt, a 2½" carbonate vein at 45° To C/a, 1% chalco, 1% Py. and Po.	1507			0.9	Tr	

DRILLED BY Morissette D. Drilling

SIGNED C. J. Kurtlow

CHESTER J. KURTLOW, M.Sc., P.ENG.
CONSULTING GEOLOGIST



MISTANGO CONSOLIDATED RESOURCES LTD.
STURGEON LAKE
DISTRICT OF PATRICIA, ONT.

VERTICAL SECTION ALONG D.DRILL HOLE

SCALE: 1" = 40.0

JUNE, 1986.

CHESTER J. KURYLIW.

LEGEND

- Qϕ — QUARTZ-FELDSPAR PORPHYRY
- GRANITIC QTZ.-FELD. POR.'Y
- GABBRO
- R. — RHYOLITE
- BASALT
- RHYOLITIC AGGLOMERATE, TUFFS
- BLACK SEDIMENTS
- Q-C — QUARTZ-CARBONATE ALTERATION
- Q.V. — QUARTZ VEIN

Assays: Oz. Au / Ton

BEARING
DUE NORTH

D. DRILL HOLE M-86-7

SURFACE

-100'

-200'

-200'

-300'

497.0
END OF HOLE

MISTANGO CONSOLIDATED RESOURCES LTD.
STURGEON LAKE
DISTRICT OF PATRICIA, ONT.

VERTICAL SECTION ALONG D.DRILL HOLE

SCALE: 1" = 40'.0

JUNE, 1986. CHESTER J. KURYLIW.

LEGEND

- QP — QUARTZ-FELDSPAR PORPHYRY
- GRANITIC QTZ.-FELD. POR.'Y
- GABBRO
- R. — RHYOLITE
- BASALT
- R.A. — RHYOLITIC AGGLOMERATE, TUFFS
- BLACK SEDIMENTS
- QUARTZ-CARBONATE ALTERATION
- QV — QUARTZ VEIN

Assays: Oz. Au / Ton

BEARING

D.DRILL HOLE M-86-6 — S-45°-W

SURFACE

-100'

-200'

-200'

-300'

Tr, 1.3 | R-A LAPILLI | Tr, 2.5 | Tr, 1.3 | Tr, 0.9 | Tr, 3.5 | Tr, 1.3 | Tr, 1.5 | Tr, 2.0 | Tr, 1.8 | QΦ | R-A LAPILLI | Tr, 0.7 | Tr, 2.0 | Tr, 2.4 | Tr, 3.0 | 0.42 oz. Ag. — Tr, 1.0 | 0.46 oz. Ag. — Tr, 1.0 | Tr, 1.8 | Tr, 2.1 | Tr, 2.9 | Tr, 2.9 | QΦ | R-A LAPILLI | MALOOS FAULT | Tr, 2.0 | Tr, 2.2 | Tr, 0.6 | Tr, 0.5 | Tr, 0.9 | Tr, 1.3 | QΦ | R-A LAPILLI | Tr, 0.7 | Tr, 1.5 | Tr, 0.6 | Tr, 0.9 | QΦ | R-A LAPILLI | Tr, 5.5 | QΦ | R-A LAPILLI | Tr, 0.7 | DIORITIC DYKE | Tr, 0.3 | Tr, 8.1 | Tr, 0.9 | QΦ | R-A LAPILLI | 516.0 END OF HOLE

MISTANGO CONSOLIDATED RESOURCES LTD.
STURGEON LAKE
DISTRICT OF PATRICIA, ONT.

VERTICAL SECTION ALONG D.DRILL HOLE

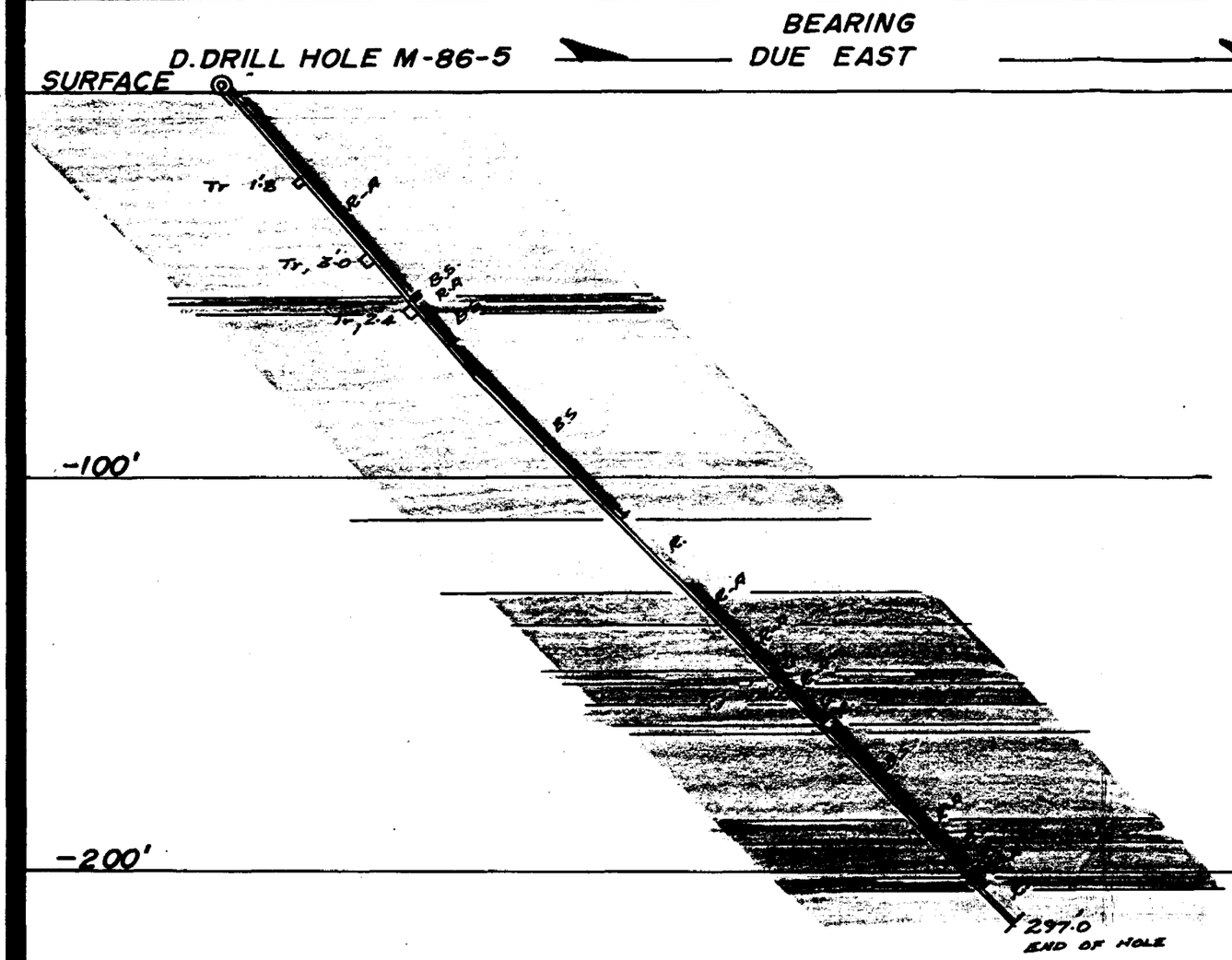
SCALE: 1" = 40.0

JUNE, 1986. CHESTER J. KURYLIW.

LEGEND

- QΦ — QUARTZ-FELDSPAR PORPHYRY
- GRANITIC QTZ.-FELD. POR.'Y
- G — GABBRO
- R — RHYOLITE
- A — BASALT
- RHYOLITIC AGGLOMERATE, TUFFS
- BLACK SEDIMENTS
- QUARTZ-CARBONATE ALTERATION
- QUARTZ VEIN

Assays: Oz. Au / Ton



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VERTICAL SECTION ALONG D.DRILL HOLE

SCALE: 1"=40'.0

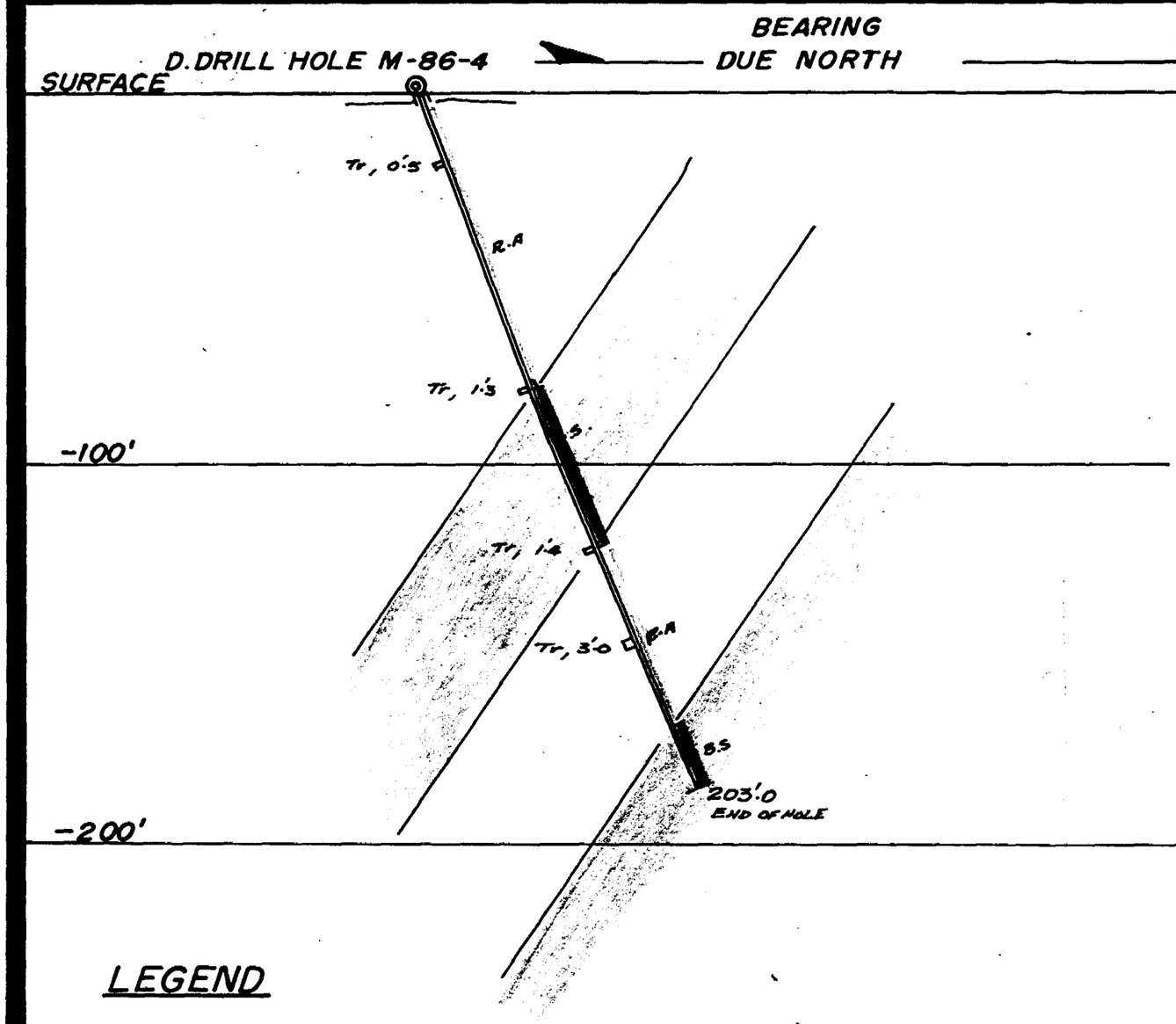
JUNE, 1986. CHESTER J. KURYLIW.

LEGEND

- QP — QUARTZ-FELDSPAR PORPHYRY
- GRANITIC QTZ.-FELD. POR.'Y
- GABBRO
- R. — RHYOLITE
- B. — BASALT
- RHYOLITIC AGGLOMERATE, TUFFS
- BLACK SEDIMENTS
- QUARTZ-CARBONATE ALTERATION
- QV — QUARTZ VEIN

Assays: Oz. Au / Ton

-300'



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DISTRICT OF PATRICIA, ONT.

VERTICAL SECTION ALONG D.DRILL HOLE

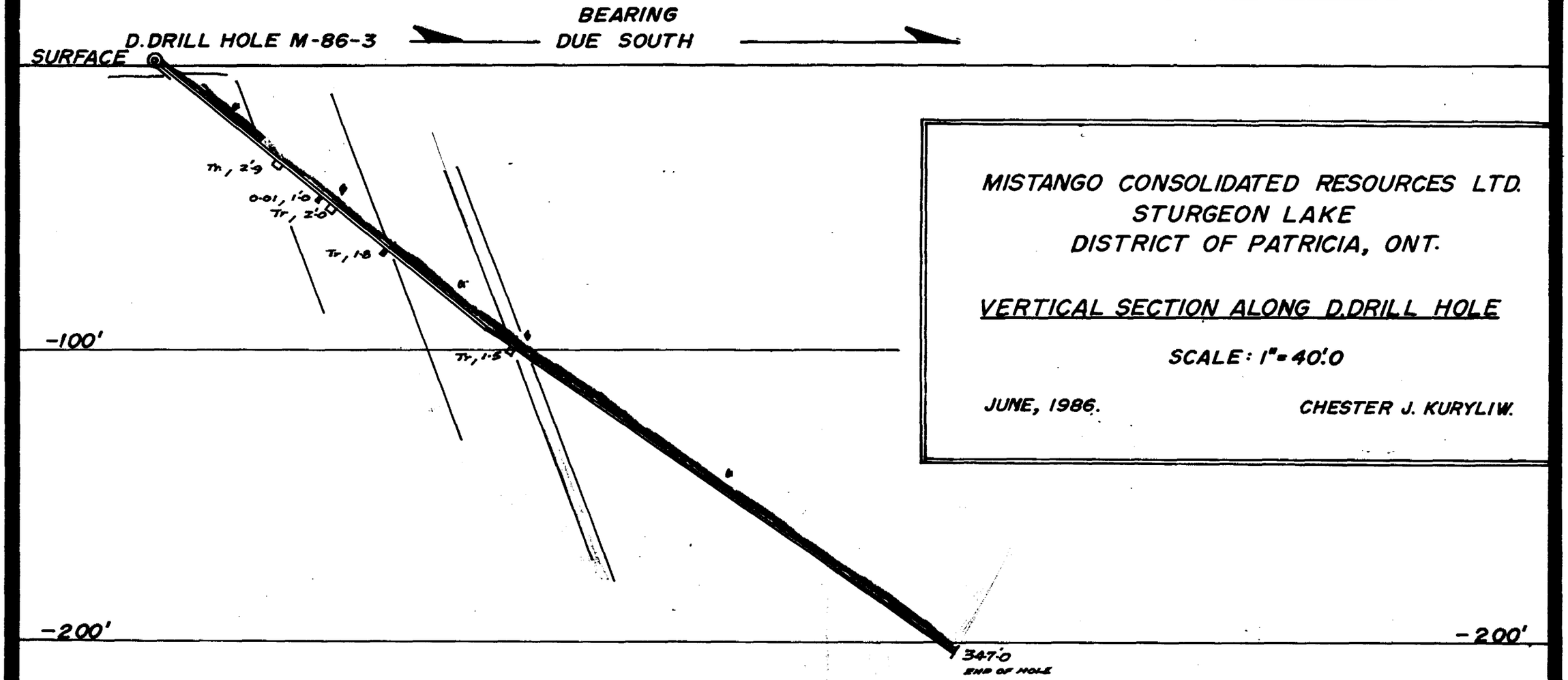
SCALE: 1"=40.0

JUNE, 1986. CHESTER J. KURYLIW.

LEGEND

- qφ — QUARTZ-FELDSPAR PORPHYRY
- GRANITIC QTZ.-FELD. POR.'Y
- GABBRO
- R — RHYOLITE
- BASALT
- RHYOLITIC AGGLOMERATE, TUFFS
- BLACK SEDIMENTS
- QUARTZ-CARBONATE ALTERATION
- QUARTZ VEIN

Assays: Oz. Au / Ton



MISTANGO CONSOLIDATED RESOURCES LTD.
STURGEON LAKE
DISTRICT OF PATRICIA, ONT.

VERTICAL SECTION ALONG D.DRILL HOLE

SCALE: 1"=40'0

JUNE, 1986. CHESTER J. KURYLIW.

LEGEND

- QP — QUARTZ-FELDSPAR PORPHYRY
- GRANITIC QTZ.-FELD. POR.'Y
- GABBRO
- RHYOLITE
- BASALT
- RHYOLITIC AGGLOMERATE, TUFFS
- BLACK SEDIMENTS
- QUARTZ-CARBONATE ALTERATION
- QUARTZ VEIN

Assays: Oz. Au / Ton

BEARING
DUE NORTH

D.DRILL HOLE M-86-2

SURFACE

-100'

001, 2'0

TT, 0'5

TT, 0'8

TT, 0'8

TT, 1'0

297'0
END OF HOLE

-200'

-200'

MISTANGO CONSOLIDATED RESOURCES LTD.
STURGEON LAKE
DISTRICT OF PATRICIA, ONT.

VERTICAL SECTION ALONG D.DRILL HOLE

SCALE: 1"=40'0

JUNE, 1986. CHESTER J. KURYLIW.

-300'

LEGEND

- QP — QUARTZ-FELDSPAR PORPHYRY
- GRANITIC QTZ.-FELD. POR.'Y
- GABBRO
- R. — RHYOLITE
- BASALT
- RHYOLITIC AGGLOMERATE, TUFFS
- BLACK SEDIMENTS
- QUARTZ-CARBONATE ALTERATION
- QUARTZ VEIN

Assays: Oz. Au / Ton

BEARING

SOUTH

D.DRILL HOLE M-86-1

SURFACE

Tr, 2'2 Q

Tr, 2'6 Q

Tr, 1'0

0-02, 0'3

Tr, 2'5

0-01, 3'5

Tr, 3'5

Tr, 3'0

2'0 Q

-100'

-200'

-200'

350'
END OF HOLE

-300'

MISTANGO CONSOLIDATED RESOURCES LTD.
STURGEON LAKE
DISTRICT OF PATRICIA, ONT.

VERTICAL SECTION ALONG D.DRILL HOLE

SCALE: 1"=40'0

JUNE, 1986.

CHESTER J. KURYLIW.

LEGEND

- qφ — QUARTZ-FELDSPAR PORPHYRY
- GRANITIC QTZ.-FELD. POR.'Y
- GABBRO
- RHYOLITE
- BASALT
- RHYOLITIC AGGLOMERATE, TUFFS
- BLACK SEDIMENTS
- QUARTZ-CARBONATE ALTERATION
- QUARTZ VEIN

Assays: Oz. Au / Ton

Duplicate drill logs of M-86-1,2,3,7,8
can be found on fiche 52 J/02SE-0059
R.O.W #124 for 1986

Duplicate drill logs of M86-4,5,6
can be found on fiche 52J/02SE-0060
R.O.W. # 126 for 1986

assays & logs
from Mistango
M-86 1-9
also in
SE 059 fiche
060
[illegible]

July 1989.