

DIAMOND DRILLING

TOWNSHIP: I	LAVAL
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REPORT NO: 17

WORK PERFORMED FOR: Mistango Consolidated Res. Ltd. transferred to Camreco Inc.

RECORDED	HOLDER:	Same as	Above	[xx]]
	:	Other		[]

<u>Claim No.</u>	<u>Hole No.</u>	Footage	Date	<u>Note</u>
K 645074	M - 87 - 1	407 '	Aug/87	(1)
K 645075	M-87-2	184'	Aug/87	(1)
K 639104	M-87-3	257'	Aug/87	(1)
K 639103	M-87-4	400'	Aug-Sept/87	(1)
K 639105	M-87-5 M-87-6	401' 293'	Sept-Oct/87 Oct/87	(1) (1)
K 645083	M-87-7	213'	Oct/87	(1)
K 639106	M-87-8	335'	Oct-Nov/87	(1)

MISTANGO CONSOLIDATED RESOURCES LIMITED.

1987 EXPLORATION PROGRAMME.

TROUTFLY LAKE AREA - N.W.Ontario

ASSESSA CONTRACTOR CPFICE APR 21 1588 RECEIVED

exploration and mining services j. langelaar, r. van enk

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TABLE OF CONTENTS.

	PAGE
SUMMARY	1
INTRODUCTION	2
DESCRIPTION OF MINING CLAIMS	3
LOCATION, ACCESS, SERVICES, TOPOGRAPHY AND	
NATURAL RESOURCES	5
SOURCES OF INFORMATION	8
HISTORY	10
GENERAL GEOLOGY AND LOCAL GEOLOGY	12
ECONOMIC GEOLOGY	23
DISCUSSION	25
THE 1987 PROGRAMME	28
GENERAL INFORMATION	29
GROUND GEOPHYSICAL SURVEYS	30
DIAMOND DRILLING	31
CONCLUSIONS AND RECOMMENDATIONS	34
CERTIFICATE OF QUALIFICATIONS	35

ENCLOSURES: Diamond drill holes M87- 1 to M87- 8 incl.

Map of areas bulldozed.	-	in	backpocket
Map showing location of drill holes	-	in	backpocket
Assessment data submitted March 1988		in	backpocket

<u>NOPONIEX</u> exploration ltd.

SUMMARY.

During the summer of 1987, an exploration programme was conducted on the Mistango claimgroup in the Laval township, N.W.Ontario.

Targets of this programme, which consisted of limited bulldozing, limited reconnaissance geology, ground geophysical surveys (VLF and Magnetometer) and diamond drilling, were two paralleling or subparalleling granodiorite dikes, one of which had been drilled in a three-hole drill program, of which one returned encouraging gold values.

The 1987 eight-hole drill program failed to establish zones of economic importance within the granodiorite dikes, eventhough holes M87-2 and M87-3 returned several gold values in the order of .06 oz/ton Au to .08 oz/ton Au over a maximum corelength of 2 feet.

NOPONIEX exploration ltd.

INTRODUCTION.

During the month of June, 1987, Norontex Exploration Ltd was commissioned by Camreco Inc. and Mistango Consolidated Resources Limited to conduct an exploration programme on the Troutfly Lake claimgroup in N.W.Ontario.

The prime targets on this claimgroup were two granodiorite zones or dikes, one of which had been drilled in the previous year under the supervision of C.J.Kuryliw, P.Eng of the town of Dryden.

The exploration programme consisted of limited bulldozing, minor reconnaissance geology, ground geophysics in the form of VLF and Magnetometer and diamond drilling.

The ground geophysical survey has been covered in detail by R.van Enk's report, dated December 8,1987, entitled "Camreco Inc, Mistango option, N.W.Ontario, Combined Magnetometer / VLF survey".

Diamond drilling was performed by E.Fontaine Diamond Drilling Ltd of Kenora; the core has been stored in the metal racks north of the main office at the Camreco mine site.

Bulldozing was conducted by Hutchinson of Dryden, utilizing a Cat D-9.



DESCRIPTION OF MINING CLAIMS.

The mining claims, situated in the Laval Township, M-3370, Kenora Mining Division, form a contiguous block of 88 claims, each measuring approximately 40 acres, for a total of 3520 acres (1424.5 hectares) -- see figure 1.

FIGURE 1



Description of Mining Claims cont'd.

Reference Map	Claim Map	Claim Number	Recording Date
Laval TWP	M-3370	К 639047 - К 639077	incl. (29) March 23,1983
		K 639080 - K 639081	incl.(2)
		K 639087 - K 639100	incl. (14)
		K 639101 - K 639123	incl. (23)
		Note: the above cla and including claims are 89	ims are on a time extension unti March 25,1988. All the above days short of the 200 days!

Laval TWP M-3370 K 645073 - K 645084 incl. (12) May 25,1982. K 645104 - K 645111 incl. (8) May 25, 1982

> Note: K 645073 has 200 days assessment work, K 645075 has 200 days assessment work, K 645074 has 192 days assessment work; all other claims have 190 days assessment work.

ON SEPTEMBER 14th, 1987 ALL THE AFOREMENTIONED CLAIMS WERE TRANSFERRED FROM MISTANGO CONSOLIDATED RESOURCES LIMITED TO CAMRECO INC.

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LOCATION, ACCESS, SERVICES, TOPOGRAPHY and NATURAL RESOURCES.

LOCATION:







scale 1:1 146 400

The Mistango Troutfly Lake claimgroup is located west of Highway 72, connecting Dinorwic and Sioux Lookout. The turn-off to the property is some 16 miles north of Dinorwic, which is located along the Trans Canada Highway,17 miles east of the town of Dryden.

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Location, Access, Services, etc., cont'd.

The centre of the claim block is about longitude 92°30'00" and latitude 49°50'30", Mining Claim Map M - 3370, LAVAL Township, Kenora Mining Division.

ACCESS:

Access to the property is by secundary road or trail, some 500 yards south of the Cofield Mission Road, approximately 17 miles north of Dinorwic. This trail, running southwestwards towards Diamond Lake, forks after about 2 miles, the northern fork accessing the centre portion of the property. Alternatively, the property can be reached by boat, starting at the landing near the Mission.

SERVICES;

Transportation to and from Dryden is excellent; Dryden is situated along the Trans Canada Highway and the main line of the Canadian Pacific Railway. Jet service to and from Winnipeg and Thunder Bay is provided twice daily by Canadian International.

The presence of the Mining Recording Offices and the Resident Geologist's offices in Kenora and Sioux Lookout, facilitates activities associated with mining and exploration.

TOPOGRAPHY:

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The general Troutfly Lake are is typical of the Precambrian terrain, having broad rolling topography with a general cover of glacial deposits, swamps, muskegs and lakes. The relief of the Troutfly lake area is moderate; hills generally average less than 60 to 80 feet above lake levels.

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.7

Location, Access, Services, etc., cont'd

RESOURCES AND NATURAL RESOURCES:

One of the principal sources of revenue of the general area is the summer tourist business. Sport fishing, boating and camping form the main attraction, many of these activities conducted from several lodges bordering the larger lakes.

Lumber activities are carried out extensively throughout the general area, with the raw product shipped to Great Lakes Forestry Products with its plant and stud mill in Dryden.

Lumber cutting facilities are available in Hudson as well.

Timber consists of polar, ash, cedar, balsam-fir, birch, black spruce and jackpine.

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SOURCES OF INFORMATION.

Beard, R.C. and Garratt, G.L.

- 1976: Gold deposits of the Kenora Fort Frances area, Districts of Kenora, Rainy River, Ont. Div. of Mines; Ministry of Natural Resources; Min. Dept.Circular 16.
- Berger, B
 - 1987: Laval and Hartman Townships Area, District of Kenora p. 84 - 89 in "Summary of Fieldwork and Other Activities 1987", by the Ont. Geol. Survey, ed.R.B.Barlow et al. Misc. Paper 137, 429 pages.

Blackburn, C.E. and Janes, D.A.

1983: "The Geology of Gold in Ontario" ed. by A.C.Colvine, Ontario Ministry of Natural Resources, Ont. Geol. Survey, MP 110.

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Chorlton, L.B.

1987: Stratigraphy, Structural Development and Auriferous Mineralization in the Cross Echo - Troutfly Lake Area, Northern Wabigoon Belt, Northwestern Ontario. P.72 - 83. in " Summary of Fieldwork and other Activities, 1987" by the Ont. Geol. Survey, ed. R.B.Barlow et. al. Misc. Paper 137, 429 pages.

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1984: Geology of the Lateral Lake Area, District of Kenora, Ont. Geol. Survey, Open File Report N° 5518; Ont. Ministry of Natural Resources.

Trowell, N.F., Blackburn, C.E. and Edwards, G.R.

1980: Preliminary Geological Synthesis of the Savant Lake -- Crow Lake Metavolcanic - Metasedimentary Belt, N.W. Ontario and its Bearing upon Mineral Exploration; Ont. Ministry of Natural Resources.; Ont. Geol. Survey, M.P. 89.

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Assessment files in M.N.R.Offices, Res. Geologists, Sioux Lookout and Kenora, re previous work conducted by Winora Graham-Bousquet, Eclund Gold Mines, Porcupine Peninsula Gold Mines, Calder - Bousquet, Mosher LongLac Mines, Villabona,Selco, Billiton and Tarbush Lode Mining Limited.Mistango Consolidated Resources Limited, Kuryliw, 1987.

"IN HOUSE REPORTS" - in the offices of Camreco; Frohberg, Broadhurst , Broadhurst et al.,Kuryliw, Redden etc.etc. 1947 - 1987.

.9

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HISTORY.

Historically, mining activities in the general area have centred primarily around gold, the search for this metal dating back to the early forties:Calder--Bousquet Mines, Mosher LongLac Mines, Villabona Gold Mines, Windward Gold Mines and Newlund Mines (formerly Lunward Gold Mines) being the more prominent ones among the mining companies involved in exploration.

In the immediate vicinity of Troutfly Lake, exploration activities by the following companies are recorded:

1) Winora (1951)

- 2) Graham Bousquet (1951)
- 3) Porcupine Peninsula (1951)
- 4) Calder Bousquet **
- 5) Eclund Gold Mines
- ** Contrary to some reports which assigned the 11-hole drill programme by Calder - Bousquet outlining 41.500 tons @ .15 oz/ton Au to the Troutfly Lake area, it has been established that this drilling took place near Beartrack Lake to the northwest of Troutfly Lake.
- Selco Mining Corporation (1970 1978). Selco conducted essentially a base metal program, consisting of linecutting, EM and Magnetometer and diamond drilling.

Mistango acquired the Troutfly Lake property in 1982. In 1984, the company carried out an Airborne VLF-EM and Magnetometer survey. In 1984 Billiton Canada Limited optioned the property from Mistango. Billiton subsequently commenced linecutting, followed by ground geophysical surveys (VLF and Magnetometer) and detailed mapping on a (very) widely spaced grid with picketlines some 200 meters (660 feet) apart.

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History cont'd.

No diamond drilling took place by Billiton and the property was returned to Mistango.

In late 1986, Mistango drilled 4 holes under supervision of C.J.Kuryliw, P.Eng, one of which - hole 86-4 - returned 1.33 oz/ton Au over 2.0 feet,followed by .113 oz/ton Au over 1.8 feet.

These holes were drilled near and in the southernmost bay of Troutfly Lake, see figure 3.



FIGURE 3, modified after Kuryliw (1987)

Chorlton cont'd



Figure 012.1. Distribution of metavolcanic, metasedimentary and granitoid rocks in the Cross Echo-Troutfly lakes area, showing gold occurrences.

spathic sills, locally display both mafic and felsic chilled contacts, gradation into more mafic metadiabase, and, rarely, rhythmic layering. These sills occur from the Goldlund Mine area through the Troutfly Lake (Mistango) Prospect to the southeast of Gardner Lake. Where fractured or veined, these metadiorites host some of the most significant known gold mineralization. Variolitic mafic flows and spherulitic tuffs accompany these metadioritic sills along the southeastern side of the area. It is speculated that the flows and tuffs may be genetically related to the sills.

This predominantly bimodal metavolcanic suite passes gradationally, although relatively abruptly into a suite dominated by coarse pyroclastic rocks of an overall intermediate composition. Coarse-grained plagioclase-rich, basaltic and andesitic flows spar the transition, especially between Cross Echo and Troutfly Lakes, and in the north Gardnar-Beartrack Lakes area. The main rock types are: a. tuff-breccias containing fragments of feldspar-phyric dacite; b. feldspar-phyric to very coarse grained metabasalt and andesite: c. hornblendeand possibly clinopyroxene-phyric andesite and/or basalt; d. bleached, vesicular, variole-rich metabasalt: e. aphyric felsite; and f. iron formation. At Beartrack Lake, these rocks are accompanied by a subvolcanic intrusion of hornblende-rich diorite. The nearly ubiguitous presence of coarse, originally euhedral (now deformed) hornblende and clinopyroxene crystals in this suite of rocks provided a criterion for separation of the two metavolcanic assemblages in the field.

Chorlton cont'd.

The distribution pattern (Figure 012.1), and the field relationships among the metavolcanic rocks (i.e. chips of iron formation, basalt, and feldspar-phyric dacite of one suite in the pyroclastic rocks of the other), suggest a regional younging into the centre of the metavolcanic belt and a gentle regional dip envelope overall.

The metasedimentary rocks consist mainly of metawackes grading locally into more feldspathic siltstones and sandstones. Lenses of felsic ashflow are exposed locally along Pickerel Arm. Mafic dikes and lenses, now amphibolitic, and mafic clasts in the ashflow, suggest that volcanism during the deposition of the metasedimentary rocks may have been both mafic and felsic. Biotite-plagioclase-quartz ± amphibole assemblages predominate in the metawackes, and andalusite and pinhead garnet are also common over the southern half of the area. Staurolite and cordierite porphyroblasts appear near the Sandybeach Lake Stock. Pyrrhotite-enriched beds of metawacke are common around Sandybeach Lake. Amphibole-epidote-plagioclase-guartz \pm biotite \pm garnet assemblages characterize the amphibolites.

Sedimentary ironstone occurs between the felsic ashflow of the metavolcanic terrain and the metawacke sequence. The ironstone is well-bedded and silicic, with massive and laminated beds from one to tens of centimetres thick, composed predominantly of granular, recrystallized quartz. Interbeds of intraformational breccia are composed of tablets of this silicic rock in a dark, magnetite-rich matrix. The ironstone is predominantly pyrrhotitic and pyritic in some places, and magnetitic in others. Sulphide minerals generally occur as pod-like concentrations and segregations along, and overprinting foliation planes. Magnetite, however, is disseminated and enriched in certain beds, particularly in the matrix of the intraformational breccia. Where sulphide minerals occur in the ironstone, they are also present in the adjacent ashflow. The magnetite may owe its presence to synsedimentary iron-enrichment, whereas the sulphide mineralization, which is not clearly stratabound, may be secondary, perhaps resulting from metasomatism during deformation. Refolded folds and mylonitic textures in the polyphase fold hinges indicate substantial strain; possibly sheared and flexed contacts have helped to focus sulphide.

The pattern defined by the iron formation at the contact between the metavolcanic rocks and the metasedimentary rocks outlines a partially closed dome and basin structural pattern (Figure 012.1). This would result if an early, gently or moderately dipping layering were later deformed, either by single stage vertical doming, or by upright cross folding.

GRANITOID INTRUSIONS

The Cross Echo and Gardnar Lake Stocks are tonalitic to granodioritic in composition, with less than 10% ferromagnesian minerals, mainly biotite with subordinate hornblende. Both stocks are characterized by medium- to coarse-grained bipyramidal quartz phenocrysts (0.5 to several centimetres in size) in some areas. Microcline is variable in proportion and interstitial to plagioclase. Both stocks locally display internal foliations concentric to their margins, and narrow contact metamorphic/strain aureoles of amphibolitic metavolcanic rock. Aplite dikes are abundant.

The Sandybeach Lake Stock, also mainly tonalitic to granodioritic, is more mafic than the Cross Echo and Gardnar Lake Stocks. Microcline is interstitial or poikiloblastic, and more abundant in the northern lobe on Sandybeach Lake, where the rock locally becomes quartz syenitic. Ferromagnesian minerals, mainly hornblende, constitute up to 25% of the rock, and define linear and plano-linear fabrics. Pegmatite and aplite dikes are common in the north. The thermal aureole of the stock is broad, over 2 km in apparent width on its northern side.

Feldspar porphyry and guartz-feldspar porphyry dikes are common throughout the study area, and were emplaced into both the metavolcanic-dominated and metasedimentary-dominated terrains. Some of the feldspar porphyry dikes resemble the feldsparphyric dacites in the metavolcanic suite, and may be synvolcanic. Quartz-feldspar porphyry dikes with coarse, bipyramidal, guartz phenocrysts, up to a few centimetres in diameter, are numerous around the Goldlund Mine, Cross Echo Lake, and the eastern margin of the Gardnar Lake Stock. In the latter area, the dikes are nearly undeformed, in contrast to their highly deformed hosts. Similar quartz phenocrysts were observed in nearby parts of the Cross Echo and Gardnar Lake Stocks. There are probably two ages of porphyry dikes; the younger equivalent to the Cross Echo and Gardnar Lake Stocks, and the older equivalent to the host metavolcanic rocks.

A fourth granitoid rock type was observed as dikes and irregular pods throughout the terrain northwest and west of Beartrack Lake. These small intrusions consist of a fine-grained intergrowth of over 60% plagioclase laths, with interstitial chlorite and minor quartz. They are commonly carbonatized and sericitized, and surrounded by bleached haloes up to tens of centimetres wide. Tuffisites, with granitoid breccia pieces in either chloritic or tourmaliniferous matrices, were observed inside several of the pods. Tourmaline is exceptionally profuse, filling numerous fractures that locally are up to 25 cm wide, and densely overprinting the granitoid rock beyond the margins of fractures. Pyrite is locally common. Sparse, disseminated scheelite was detected in a few samples with an ultraviolet lamp.

These granitoid injections are more widespread than originally thought. Minor, texturally similar, highly altered (carbonatized and pyritized), fine-grained granitoid rock is exposed as fracture fillings in brecciated metadiabase or massive metabasalt along the north side of the No.1 Zone of the Goldlund Mine. Similar granitoid dikes were also recognized at the south end of Pickerel Arm. Chorlton cont'd.

STRUCTURAL DEVELOPMENT

Deformational imprints in the study area are assigned to two regional structural events, which were separated by the emplacement of the granitoid stocks. The earlier event, possibly thrust-related, resulted in generally moderate to gentle southerly dips of foliation and bedding, along with gently dipping zones of very strong schistosity. Some of the regional strain, involving superposition of contact thermal/strain aureoles, reorientation of early fabrics outside these aureoles, and possibly lineation development, was incurred during granitoid emplacement. The second event involved steepening of earlier fabrics, folding, fracturing, and activity along steep shear zones. This event is interpreted to be the result of northwestsoutheast shortening around the granitoid stocks combined with sinistral oblique-slip. Gold mineralization accompanied fracturing and veining associated with second deformation folds and shear zones, which vary in style and attitude with position relative to the granitoid stocks.

The earliest event (D_1) involved the formation of a strong regional foliation (S_1) , which, although later deformed, conforms regionally to a gentle to moderate dip envelope similar to that shown by stratigraphic contacts. It dips moderately to gently where it is best preserved, between the Cross Echo and Gardnar Lake Stocks, and in the partially enclosed domal structure defined by the metasedimentary-metavolcanic contact and ironstone marker north of the Sandybeach Lake Stock (Figure 012.2). Elsewhere, it was strongly transposed into steep attitudes during the second event (D_2) , and the early foliation may be so nearly parallel to the second foliation that the difference is detected only in narrow structural panels that preserve the burges of tight F₂ folds in S₁. In most exposures of bedded metasedimentary rocks in the study area, S_1 strikes counterclockwise and dips nearly parallel to bedding planes, which face mainly southeast and upwards on this foliation. F, fold hinges are rarely seen except in the ironstone. Reconnaissance in Hartman Township has revealed steeply dipping, bedded metasedimentary rocks which young to the south and face downwards on a gently north-dipping S_1 foliation. The simplest explanation of the overturning on shallow foliations and the large tract of upward facing strata is large-amplitude D_1 thrusting.

The S₁ foliation in metavolcanic rocks, which are also upright, is developed inhomogeneously, and commonly is focused along contacts and in finegrained, fragmental rocks. However, this foliation is particularly intense, even locally phyllonitic or mylonitic, in all units between Troutfly Lake and the Gardnar Lake Stock. The dips of S_1 in parts of this area are less than 35° to the south and southeast. In the terrain between the south parts of Troutfly and Gardnar Lakes, these shallow schistose zones in both tuff-breccia ("upper volcanic unit") and a metadiabase sill-metavolcanic rock complex ("lower volcanic unit") dip southeastward from the "younger" into the "older" unit, compatible with thrusting as a mechanism for first deformational imprint. However, because the contact probably resulted from pyroclastic processes, which are prone to unconformity, this is not necessarily diagnostic.

The second deformation (D₂) was responsible for: a upright folds of the earlier foliation and bedding; b. a local, northeast-striking, steeply dipping crenulation or spaced fracture cleavage; c. steep ductile shear zones; and d. fracturing, on several scales. The large scale, doubly plunging antiform and synform, outlined by the map pattern and early foliations referred to above, are products of D₂. The antiform-synform pair resulted from regional northwest-southeast shortening. The doubly plunging fold hinge and lineation pattern may reflect curvature that is convex upward and to the northwest (about a northwest-southeast axis). This curvature may, in turn, be related to the larger scale regional curvature that is responsible for the doubly plunging, D2, Lateral Lake antiform that occurs northwest of the Little Vermilion Fault (Figure 012.2). Open crenulations, and open to moderately tight, megascopic, Z-, S-, and Mfolds in pre-D₂ foliations were developed in many parts of the area. The symmetry of these folds depends predominantly on the attitude of the early foliation (Figure 012.2), which formed pre-D2, and after emplacement of the granitoid rocks. Where intrusive or stratigraphic contacts are inclined to S₁, F₂ folds of contacts and foliations may contrast in symmetry.

Schistose zones related to D_2 fall into two general categories: 1. a major set of steeply dipping, sericitic, relatively fine-grained, schistose zones, and 2. a subordinate set of east-northeasterly to southeasterly striking, schistose zones. Schistose zones of

the major set are metres to tens of metres wide, and are located where the regional foliations are steep in the limbs of D₂ folds and in the axial zones of D₂ folds; and in secondary, narrow shear fracture zones counterclockwise to the main tectonic grain. Schistose zones of the subordinate set are narrower, and in places are accompanied by a similarly-oriented crenulation cleavage. Because of the existence of locally intense, pre-D₂ fabrics, a sense of simple shear (where simple shear was operative) is ambiguous in most of these zones. Fine-orained, schistose zones in the axial planes of D₂ folds are probably essentially irrotational. However, exposures showing sinistrally-rotated plagioclase porphyroclasts, and sinistral sets of quartz-filled, en echelon, extension gashes occur in several of the more prominent northeasterly trending schistose zones in the metavolcanic and metadiabasic terrane. Sigmoidal and over-rotated quartz veins in phyllonitic zones in the metasedimentary terrane along Pickerel Arm (Figure 012.2) also suggest a sinistral sense for the predominant, northeasterly striking set.

Quartz- and tourmaline-quartz-filled fractures are abundant throughout the entire study area, including the granitoid stocks. They were emplaced both between and within rocks affected by D₂ simple shear. In the first setting, they are steep and northwest-to north-northwest-trending, and subperpendicular to the overall northeasterly tectonic grain of the belt. These fractures may be interpreted as normal extension fractures, reflecting an overall northeasterly extension and/or northwest-southeast shortening. Minor veinlets, with no strain implications, are also found filling the early foliations in micaceous bands in the metasedimentary schists. In the second setting, northeasterly striking en echelon veins, locally sigmoidal, are acutely counterclockwise to the steep, northeasterly striking, D₂ foliations and transposed lithological contacts in zones affected by D₂ simple shear, particularly from the Goldlund Mine area northeastward, and along Pickerel Arm (Figure 012.2). These veins provide the strongest evidence for a late stage component of sinistral simple shear.

Quartz veins at the Mistango property on Troutfly Lake south of the Cross Echo Stock have an entirely different geometry. These veins occur as a conjugate set, the predominant orientation being moderately north-dipping and west- to west-northwest-striking, acutely clockwise to S2 cleavages and axial planes of the gently southwest-plunging, monoformal, F2 Zfolds (approximately 030°/steep). The subordinate set is steeply dipping, and subparallel to S2. The northerly dips of the main vein set may reflect either a north-side-up shear component or south-over-north rotation of the foliated metadiorite in F2 fold hinges. The predominant vein orientation suggests a dextral shear component during D_2 in this area, although the siting and overall geometry of the stockwork probably relate to the folding.

Penetrative lineations, defined by elongated spherulites, vesicles, amygdules, and mineral aggregates replacing igneous plagioclase and hornblende or other mafic phenocrysts, are also locally prominent. The mineral aggregates are compatible with peak metamorphic assemblages. Between Troutfly and Gardnar Lakes, lineations are commonly crenulated by F_2 , the lineations plunging gently northeast, and the crenulation axes plunging gently southwest. From Cross Echo Lake to Pickerel Arm, lineations change in plunge from southwest in the south to northeast in the north (Figure 012.2), consistent with D_2 flexing of fold hinges. These lineations were thus affected, and perhaps enhanced, by D_2 , but were initiated prior to it, possibly during emplacement of the granitoid stocks.

Non-penetrative, subvertical, stretch (carbonatized necked plagioclase) and mineral (tourmaline, actinolite) lineations locally affect D_2 -fragmented apophyses of the Cross Echo Stock north of Cross Echo Lake, and some of the schistose zones in the northwestern and northeastern parts of the study area. The lineations may reflect localized vertical extension, axial constriction, or dip-slip displacement during this carbonatization and tourmaline alteration.

Structures associated with the granitoid stocks are of two generations: the earlier relates to their emplacement and the later relates to the regional D₂ deformation. The Cross Echo and Gardnar Lake Stocks display inhomogeneneously developed, internal foliations, defined by biotite books and flattened, recrystallized quartz domains concentric to their margins, and narrow, very highly foliated contact metamorphic aureoles which dip steeply (Figure 012.2). The earlier foliations of the metavolcanic terrane dip away from the contact strain aureoles, suggesting a moderate reorientation of the D₁ structures due to the punching upward of the stocks. The fabric-forming biotite is fresh, except in the highly deformed, sheardisplaced, northeastern segment of the Cross Echo Stock, and along the western side of the Gardnar-Lake Stock, where chlorite and epidote replace both biotite and hornblende. Aplite dikes and subordinate, guartz-filled fractures cut the internal foliation at high angles, and are most numerous in areas of most intense foliation. They are unfoliated within the stocks, except in the sheared northeastern segment of the Cross Echo Stock and west of the Gardnar Lake Stock (above), and are openly buckled across northeast-trending axial planes outside the stocks. The weak buckling and localized foliation of the aplites are compatible with the D₂ deformation pattern.

The core of the Sandybeach Lake Stock possesses a south-plunging, linear fabric which is defined by hornblende. This linear fabric changes outward into a plano-linear fabric around the margins of the stock. The large size and general concordance with regional fabrics of the Sandybeach Lake Stock make it difficult to assess the influence of its emplacement on structures in the surrounding rocks. However, the stock is clearly affected by D_2 shear zones along its eastern side.

METAMORPHISM AND REGIONAL ALTERATION

A regional metamorphic peak in the upper greenschist facies (above the biotite isograd) was attained after the first deformation throughout most of the study area. This metamorphic peak overlapped the second deformation. Rocks metamorphosed to lower than biotite grade are located only in the extreme orlton cont'd.

northeast. The metamorphic grade increases gradually toward the Sandybeach Lake Stock, through lower amphibolite facies (andalusite-garnet-biotite in pelitic schists), to higher grade rocks containing porphyroblasts of cordierite and staurolite, and ultimately to migmatite veining in agmatite enclaves next to the contact. The Cross Echo and Gardnar Lakes Stocks, even though they possess narrow contact zones of highly foliated amphibolite, have little effect on the regional isograd pattern.

Most of the evidence for the timing of the metamorphic peak comes from the medium- to high-grade metasedimentary rocks, and suggests that peak metamorphic temperatures were achieved after D₁, prior to and overlapping D₂. First, tonalitic segregations of the migmatite enclaves were clearly folded and foliated by D₂. Secondly, both andalusite and staurolite porphyroblasts overprint S₁ and form augen within the D₂ crenulation. Coarse cordierite most commonly forms ragged, anhedral porphyroblasts which conform to the crenulated geometry of the F_2 folds and crinkles of S_1 in the host rock, and thus crystallized either during or after D₂. Comparatively finegrained porphyroblasts of cordierite immediately next to the stock are euhedral, and form augen in the S₂ foliation. Staurolite in one outcrop area, and cordierite in another, also form monomineralic concentrations next to both quartz-filled and quartz-poor fractures cutting across, and locally axial planar to, F2 folds. Metamorphic conditions must have remained within the stability limits of these two minerals, and the hosts were metasomatically altered from normal pelitic compositions into alkali- and silica-depleted ones next to the fractures during D₂. Both staurolite and cordierite are commonly replaced by white mica and calcite, as is the more widespread andalusite, suggesting late or post-D₂ rehydration and carbonatization (below).

Two forms of hydrothermal alteration are inhomogeneously developed but regionally pervasive: 1. disseminated calcite-magnetite, or, locally, sericitecalcite replacement, and 2. more focused tourmaline replacement. It is suspected that these alteration effects occurred under near peak metamorphic conditions, but post-dated the initial crystallization of regional metamorphic assemblages.

The calcite-magnetite replacement is the most widespread regional alteration, preferentially affecting mafic and intermediate rocks. The more feldspathic phases of the metadiabase-diorite suite and the spherulitic tuffs are particularly susceptible, as are rocks in which either early (S_1) or later (S_2) foliation is particularly strong. The northeast-striking, D_2 shear zones on either side of the Sandybeach Lake Stock are likewise converted to calcite-sericitebiotite schists in the southern and central parts of the area, and to ankerite-sericite-chlorite schists at the extreme northeastern end of the area, where the ambient metamorphic grade is lower and biotite is lacking in the surrounding metasedimentary schists. Ankerite is elsewhere confined to mineralized zones.

All zones of weakness, such as areas of strong foliation, pillow selvages or pillow breccia, scoriaceous fragments, and small mafic chips, are local foci for tourmaline replacement. Tourmaline needles radiate from replacement aggregates into the surrounding rock. However, the tourmaline is commonly aligned preferentially along S_2 cleavage or crenulation planes, or concentrated in clots along prominent D_2 schistose zones, suggesting a D_2 , or younger, age. Breccia pods and dikes with tourmaliniferous matrices are particularly common within the fine-grained pods of tonalite, north and west of Beartrack Lake. Tourmaline is common in the regional quartz veins, and fills some of the latest generation of fractures which crosscut the Gardnar and Cross Echo Lakes Stocks and feldspar-quartz porphyry dikes, also suggesting a late introduction.

Other forms of alteration, such as iron carbonatization, silicification, sericitization, and albitization, are associated with sulphide mineralization in rocks with high gold potential. It is noteworthy that Giddings (1986) has concluded that the early stages of this alteration at the Goldlund Mine took place under relatively high temperature conditions, compatible with the regional metamorphic peak temperatures preceding and overlapping D_2 . BEN BERGER - 1987.

GENERAL GEOLOGY

The map area is underlain by Precambrian (Archean) supracrustal rocks composed of mafic and felsic metavolcanics, metasediments, and related intrusive rocks which have been intruded by Archean granitoid stocks (Figure 013.1). Laval and Hartman Townships were previously mapped by Satterly (1943) who subdivided the supracrustal rocks into groups of predominantly metavolcanic or metasedimentary assemblages. Turner and Walker (1973) subdivided the supracrustals into groups in the Sioux Lookout area and subsequent workers (Page and Christie 1980; Trowell et al. 1980, 1983; Berger et al. 1987a, 1987b, 1987c) have adopted these group names and extended their boundaries southwest of Sioux Lookout to the map area. Groups recognized by Turner and Walker (1973) in the map area include the Southern Volcanic Belt, the Minnitaki Group, the Central Volcanic Belt also known as the Neepawa Group (Trowell et al. 1983), and the Abram Group. The Thunder River Volcanics (Satterly 1943) do not easily fit into these groups; however, they may be related to the Southern Volcanic Belt.

The Southern Volcanic Belt (Wabigoon Volcanics, Satterly 1943), which is restricted to the southern and western parts of Hartman Township, is composed predominantly of mafic metavolcanic flows with minor mafic pyroclastics and rare clastic metasediments. Pillow structures and plagioclase phyric flows ("leopard rock") are the major primary features preserved in these rocks and occasionally pillow breccias and bedding planes in tuffs are present. Geochemical analyses of representative samples from the Melgund Lake area (Berger, in preparation) show that these rocks are predominantly high iron tholeiites.

The Minnitaki Group underlies central Hartman Township and southern Laval Township, and is equiv-

alent to the Zealand Sediments and the Thunder Lake Sediments mapped by Satterly (1943). The Minnitaki Group is composed predominantly of clastic wacke and siltstone and exhibits graded beds interpreted as being deposited by turbidity currents. Minor sulphide and oxide facies ironstones are interbedded with the wacke but do not form large mappable units. Pebbly wacke beds occur in a few places and are the coarsest metasediments present. Felsic metavolcanic tuff, crystal tuff, and lapilli-tuff are interbedded with the wacke and form large mappable units in the Laval Lake area. Mafic tuff is also interbedded with the wacke but does not form mappable units and is uncommon. The contact between the Minnitaki Group and the Southern Volcanic Belt is obscured by the Hartman Lake Stock and the stratigraphic facing directions are unreliable in this area. The contact between the Minnitaki Group and the Neepawa Group appears to be conformable, and intercalations of metasediments with metavolcanics are common. Reversals in stratigraphic facing directions are common due to folding and faulting, but, based on mapping by Berger et al. (1987a, 1987b, 1987c), the Minnitaki Group appears to overlie the Neepawa Group.

The Central Volcanic Belt or Neepawa Group (Brownridge Volcanics, Satterly 1943) is composed of metavolcanics which are divisible into two formations (Figure 013.1). Formation A forms a broad band that extends southwest from northeastern Laval Township to the Rafter Lake area. Formation B underlies the Beartrack-Troutfly Lakes area and the islands and eastern shore of Rafter Lake. The contact between the two formations is transitional and based on field relationships. Formation A is older than Formation B.

Formation A is composed predominantly of amphibolitic mafic flows and related subvolcanic intrusions. These rocks are dark green to black on the weathered surface, and are composed of massive to pillowed flows with interlayered heterolithic mafic pyroclastics. Felsic metavolcanic flows and pyroclastics locally form mappable units but are subordinate members of Formation A. Variolites form a distinctive sequence in Formation A. Varioles in massive mafic flows were commonly observed to gradually increase in abundance from approximately 30 percent, toward the upper stratigraphic contact where, in many places, they coalesced into massive, glassylooking dacitic to rhyolitic rocks. In some places these flows are overlain by felsic tuffs containing "varioles" and fragments of coalesced felsic lava. This sequence of rocks provides a readily identifiable marker horizon extending from the eastern boundary of Laval Township to west of Gardnar Lake. The origin of these textures is unknown at present.

Subvolcanic gabbro/diorite sills and dikes intrude the metavolcanics of Formation A, and in several instances, textures and field relationships indicate that these bodies breached the surface, producing flow equivalents. These rocks commonly contain plagioclase and/or hornblende phenocrysts which appear to form cumulate phases within the intrusions.

Formation B of the Neepawa Group is composed of mafic to intermediate metavolcanic pyroclastics with subordinate intermediate to felsic flows. These **NOPONIEX** exploration Itd.



Figure 013.1. General geology of Laval and Hartman Townships Area, District of Kenora.

rocks are characterized by grey-green weathering surfaces and contain either prominent euhedral hornblende or plagioclase phenocrysts and are interpreted to represent products of explosive calc-alkalic volcanism. Distinctive textures in these rocks include square hornblende phenocrysts interpreted to be primary and/or pseudomorphic after clinopyroxene and trachytic textured pyroclasts and flows. The pyroclastic deposits in the Beartrack Lake area are unsorted, ungraded, poorly stratified, heterolithic tuff breccias that become better organized in the Rafter Lake area. Flows are subordinate and are composed of mafic to felsic massive and pillowed members.

At Beartrack Lake, an irregularly shaped composite diorite stock has intruded both formations of the Neepawa Group, and fragments from the stock are incorporated in Formation B pyroclastic deposits and trachytic flows are in gradational contact with the intrusion. This indicates that the stock was subvolcanic and was a local source for some of the metavolcanics of Formation B.

The Abram Group or Brownridge Sediments (Satterly 1943) underlie the northwestern corner of Laval Township. These rocks are composed of arenaceous wacke interbedded with siltstone and felsic metavolcanic crystal tuff and tuff-breccia. The clastic metasediments are northwest facing, thinly to thickly bedded, containing well-preserved graded beds, cross-stratification, scour marks, and "rip-up" clasts that are indicative of deposition by turbidity currents. Turner and Walker (1973) have subdivided the Abram Group into formations and, based on their descriptions, the metasediments in the map area appear to be most closely related to the Daredevil Formation which contains both felsic metavolcanics and turbiditic wackes. There is also a close similarity in lithologies and depositional environments between the Abram Group and the Minnitaki Group in the map area.

The Thunder River Volcanics (Satterly 1943) form a band of mafic metavolcanic flows and amphibolites that extends from Hartman Lake to the western boundary of Hartman Township. These rocks are composed of massive and pillowed amphibolitic mafic flows, some of which contain plagioclase varioles. These rocks are intercalated with clastic metasediments of the Minnitaki Group and do not readily fit into previously described groups. However, these rocks appear to be contiguous with members of the Southern Volcanic Belt and are tentatively correlated with this group.

A number of granitoid stocks intrude the supracrustal rocks, including the Hartman Lake Stock, the Sandybeach Lake Stock, the Gardnar Lake Stock, the Crossecho Lake Stock, a distinctive suite of granitic pegmatites, and a number of feldspar and quartz feldspar porphyritic dikes.

The Hartman Lake Stock is a composite granitoid intrusion composed mainly of a pink weathering granodiorite phase, a pink to red granite aplite phase, and a white weathering quartz feldspar porphyritic border phase which, in part, is physically separated from the main stock. The granodiorite underlies most of the stock in the west-central part of Hartman Township. It is a medium- to coarse-grained, quartzrich rock which is locally deformed to mylonite where it is cut by the Wabigoon Fault. The pink granite aplite occurs as a massive intrusive phase east of Hartman Lake and as stringers and dikes cutting both the granodiorite and Southern Volcanic Belt rocks. The guartz-feldspar porphyry occurs along the southeastern and eastern margins of the stock and intrudes the earlier phases of the stock. Along the northeastern margin of the stock, the porphyry occurs as apophyses, dikes, and irregular bodies intruding Minnitaki Group metasediments and Thunder River Metavolcanics. A distinctive intrusion breccia occurs along Highway 72 where the porphyry has partially assimilated mafic amphibolite.

Only the western third of the Sandybeach Lake Stock occurs in the map area and it is located along, and west of Highway 72 in northeastern Hartman Township. The stock is a grey weathering, foliated, mafic xenolith-bearing quartz monzonite to quartzdiorite. The rock is medium grained, homogeneous, and contains hornblende and biotite. A syenogabbro phase composed of large pink feldspars in a biotitehornblende groundmass occurs along the western margin south of Laval Lake.

The Gardnar Lake Stock is centred under Gardnar Lake and is an equigranular to slightly feldspar porphyritic, biolite-bearing granodiorite. For the most part, the stock is homogeneous with narrow (1 to 30 cm) pink and white aplite dikes cutting the stock and host rocks near the borders. Quartz-tourmaline veins are found along the western margin. A number of granitic dikes intrude the metavolcanics southwest of the stock, however, their relationship to the stock is uncertain at this time. The Crossecho Lake Stock is an oval intrusion underlying the northeastern part of Laval Township. It is predominantly a pink, quartz porphyritic granodiorite with minor white tonalito and numerous pink granitic aplite dikes and stringers. Biotite usually makes up less than 10 percent of the rock, and in many places comprises less than 5 percent of the rock. Large quartz phenocrysts (up to 2 cm in diameter) are commonly doubly terminated and this distinguishes this stock from the other granodiorites in the map area. Quartz tourmaline veins are also common in this stock.

A distinctive suite of white and pink weathering granitic pegmatites and aplites occurs along Highway 72 in southeastern Laval Township, on the shores of Laval Lake, and in the northwestern part of Hartman Township. The white variety is composed of quartz, sodic and potassic feldspar, muscovite, and biotite. Garnet, tourmaline, and rarely fibrolitic sillimanite occur as accessory minerals. The pink pegmatite is mineralogically similar to the white variety but contains less tourmaline and no sillimanite. White and pink pegmatite occur together in the field and the only noticeable difference is that white pegmatite contains mostly metasedimentary xenoliths, whereas the pink variety contains mostly amphibolitic xenoliths. These rocks crosscut the Sandybeach Lake Stock and are among the youngest rocks in the map area.

Throughout the map area, feldspar and quartzfeldspar porphyry dikes intrude the supracrustal rocks. Based on spatial proximity, many of these dikes are thought to be related to the felsic metavolcanics in the Neepawa Group. Some of these dikes may also be related to the granitic stocks such as the Hartman Lake Stock or the Crossecho Lake Stock. However, many dikes are of uncertain origin. In particular, a number of monzodioritic to feldspar phyric dikes intruding metavolcanics southwest of Gardnar Lake granodiorite stock and appear to form a separate intrusive centre.

STRUCTURE AND METAMORPHISM

Two periods of deformation have affected all of the supracrustal rocks in the map area, and around the peripheries of some of the granitoid stocks a third period of deformation is locally preserved. Evidence of the first deformation is preserved in the stress shadows of the Crossecho Lake and Gardnar Lake Plutons. Here, subhorizontal foliations, lineations, shearing, and bedding indicate thrusting was possibly responsible for the first phase of deformation (Chorlton, Article 012, this volume).

The second deformation is well preserved and has affected all of the rocks in the map area. It is characterized by north- to northeast-trending foliations and northeast- or southwest-trending lineations and fold axes. The second deformation has tightly buckled the metavolcanics about subvertical fold axes, and, in the area southwest of the Crossecho Lake Stock, low amplitude folds imposed upon the subhorizontal strata of the first deformation has caused multiple repetition of metavolcanic units. The second deformation has resulted in transposition of units in many places and has created very complex geology.

Intrusion of some of the granitoid plutons has imposed foliations and mineral lineations upon the supracrustal rocks. These structures are localized to the peripheries of the plutons and represent the third period of deformation in the map area.

The Wabigoon Fault as described by Satterly (1943) and Blackburn *et al.* (1985) is characterized by intensely sheared rocks marking the boundary between north-facing mafic metavolcanics south of the fault and south-facing clastic metasediments north of the fault. In the map area, the Hartman Lake Stock intrudes along this interface and the Wabigoon Fault has cut the Hartman Lake Stock as a series of separate but subparallel shear zones. Each zone is marked by the development of mylonitic textures and each shows a pronounced dextral asymmetry defined by rotated foliation at the boundaries. Purple fluorite commonly occurs along the foliation planes and is interpreted by the author as evidence that the structures are deep seated.

A second major northeast-trending structure cuts the Southern Volcanic Belt southeast of the Hartman Lake Stock. This structure is interpreted to represent the extension of the Manitou Straits Fault (Blackburn 1982) into the map area. It consists of intensely sheared mafic metavolcanics which locally contains sulphide mineralization and brown carbonate alteration. Its relationship to the Wabigoon Fault is as yet unclear; however, northeast-trending microfaults within the Hartman Lake Stock clearly cut and sinistrally offset west-trending foliations interpreted to belong to the Wabigoon Fault system.

Most of the area has been metamorphosed to amphibolite facies. Indicator minerals in the metasediments include staurolite, garnet, and andalusite. Metamorphic mineral indicators in the mafic metavolcanics include the widespread development of garnet and hornblende and the local development of pyroxene in metatexitic rocks. Partial melting of the metasediments is indicated by the development of the white garnet-sillimanite bearing pegmatites which occur extensively along the eastern boundary of Laval Township and in the northwestern part of Hartman Township.

Areas of greenschist facies metamorphism occur south of the Hartman Lake Stock and in the Beartrack Lake-Troutfly Lake area. Chlorite, epidote, and actinolite are most common in these areas.

ALTERATION

All rocks, including the granitoid stocks and pegmatite intrusions north of the Wabigoon Fault, have undergone some degree of tourmalinization. Tourmaline occurs mainly in two environments. Firstly, tourmaline occurs in quartz veins that intrude along the northeast D_2 foliation planes and along extension fractures oriented northwest, north-northeast, and east-northeast. This type of tourmalinization is most common and occurs in all rock types. Several assays from these quartz-tourmaline veins returned *nil* gold and silver. In the second environment, tourmaline occurs within the host rock as individual crystals, rosettes, or as massive replacement of such primary features as pillow selvedges, vesicles, and original porous pyroclasts. This type of tourmalinization occurs mainly in the Neepawa Group metavolcanics in the Beartrack-Gardnar-Troutfly Lakes area. Occasionally, andalusite and scheelite are present and, although all three gold showings in the map area are spatially related to this type of tourmalinization, quartz-tourmaline veins are also present in the vicinity of each showing.

Locally, hydrothermal silicification and carbonatization have affected the supracrustal rocks. This type of alteration is manifested along the extension of the Manitou Straits Fault and in the area southwest of Troutfly Lake. In particular, pervasively silicified and carbonatized gabbroic sills at the southern end of Troutfly Lake are the current focus of gold exploration by Mistango Consolidated Resources Limited.

LOCAL GEOLOGY.

As the Camreco - former Goldlund programme was conducted simultaneously as the Mistango one, very little time was spent on the local geology, other than a cursory type of reconnaissance.

The author relied heavily on the detailed mapping by Billiton (1984) and the reader is referred to Billiton's map and report.

During the drilling on the Mistango property, L.B.Chorlton traversed the Mistango claims on a number of times and assisted the author on several occasions with details on the local geological phenomena. Details of her work, pertaining to the "lake showing" on the west side of the southernmost bay of Troutfly Lake are reproduced as follows:

Chorlton, 1987

"MISTANGO (TROUTFLY LAKE) OCCURRENCES

The Mistango Property at Troutfly Lake exposes mainly pillowed and massive metabasalts, including those containing varioles and feldspar phenocrysts, spherulitic tuffs, and numerous subvolcanic metadiabase and metadiorite sills that are slightly discordant to the volcanic stratigraphy. The S₁ foliation is prominent, commonly moderately to gently dipping, and conspicuously folded about gently southwestplunging F₂ monoforms. It is crosscut by a second S₂ fracture cleavage, which strikes about 030°, dips steeply, and is axial planar to the F₂ folds. The regional calcite-magnetite alteration is locally profuse in this region, particularly in very schistose rocks and in the lighter coloured metadiorite sills.

Auriferous mineralization occurs in fine-grained metadiorite, where it has been fractured and pyritized, at the expense of magnetite, commonly in the presence of quartz veins. The quartz veins (Figure 012.4) strike mainly about 260° , clockwise to the S_2 foliation, and dip moderately north, with subordinate cross veins striking about 030°, parallel to F_2 axial planes and S₂ cleavage. The most auriferous rocks are pink or buff on fresh surfaces, due to iron-rich carbonate, albite, and pyrite alteration, contrasting with the light grey colour of the same rock type away from mineralization. The veining which accompanies the disseminated pyrite and pink alteration on surface is located in F_2 hinge zones (see cross section, Figure 012.4). A similar structural setting was found for surface sulphide mineralization and profuse fracturing and veining of metadiorite or metadiabase in a second, parallel horizon to the south-southwest of this discovery zone.

Near the southwest clearing, the metadiorite sill is chilled against mafic metavolcanic rocks which separate it from one of the mafic metadiabases, indicating that the metadiorite and metadiabase here are separate intrusions. The metadiabase continues along the southern side of the discovery zone through an island at the southern end of Troutfly Lake, where old trenches expose several quartz-carbonate veins. The veins are surrounded by a halo of highly calcified metadiabase containing galena and pyrite. This showing also shows gold potential in one of the more mafic sills.¹¹

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ECONOMIC GEOLOGY - GENERAL

To-date, gold has been the principal resource of the mining activities in the area.

Aside from numerous prospects and showings, which contain pyrite, gold, disseminated copper and zinc, disseminated nickel-copper, molybdenum, zinc, lead and silver, uranium, iron, cesium-lithium-tantalum, in a variety of geological environments, only the two more important ones are listed.

- Goldlund Mines Limited was the only producer until recently, with estimated reserves of 600,000 tons to the 800 - foot level grading .20 oz/ton of gold.
- ** 2) Camreco Inc., which changed its name in 1981 from Windfall Oils and Mines Limited (formerly Windward Gold Mines Limited) holds a claimgroup adjoining the Goldlunds property to the southwest, which contained probable reserves of 150,120 tons @ .30 oz/ton of gold. Subsequent drilling in late 1984 has increased these reserves.

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Blackburn and Janes (1983) summarize Chisholm's descriptions of gold occurrences under 4 groups:

 Quartz and carbonate fissure veins and stockworks in lavas, tuffs, agglomerates and intrusive rock types.

** Note: In December 1986, Camreco Inc. acquired all Goldlund holdings.

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Economic Geology cont'd

- 2) Crossfractures in lavas, tuff and intrusive rocktypes. Goldlund and Camreco fall into this category and details are provided under "Discussion".
- Carbonate replacement zones in mafic volcanic and sedimentary rocks.
- 4) Silicified shear zones in tuff and lavas.

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DISCUSSION

In order to search for Goldlund type gold mineralization the following Goldlund characteristics ought to be taken into consideration.

- 1)' Host Rocks: albite trondhjemite (locally termed the "main dike" or "Goldlund granodiorite" or the "Goldlund sill").
- 2) Quartz Veining: Tensional veins of quartz and usually containing an associated band of bleached rock in the immediate adjacent trondhjemite. At Goldund the veins are generally quite straight, strike consistently N-S to N20^OE and dip 40^O to 60^O to the west.

Froberg (in Page, 1984) states that: "individual veins vary in width from fractions of an inch to about one foot; they have the appearance of fracture filling and furthermore A characteristic fracture of the transverse veins is their arrangements in short cluster or in patterns continuing for hundreds of feet."

3) Alteration: Quartz veins at the Goldlund zone are generally marked by the occurrence of bleached wallrock trondhjemite. According to Froberg (Page, 1984) the altered wallrock consist of

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Discussion cont'd.

newly introduced albite, carbonate, magnetite, ilmenite and varying amounts of finely crystalized pyrite. The final alteration product consists of more than 50% albite, with the aforementioned minerals making up the balance.

Froberg (in Page, 1984) observed that the degree of alteration is no safe criterion in judging the gold content of the veins: veins in intensely altered granodiorite have been found to contain little gold whereas quartz stringers with little or no wallrock alteration carried considerable possible gold.

4) Mineralization: Major constituents of the veins proper are quartz, ankeritic carbonate and pyrite. Minerals occuring in minor amounts to trace amounts include, according to Froberg (Page, 1984), actinolite, biotite, tourmaline, scheelite, with metallic constituents including sphalerite, chalcopyrite, galena, altaite, petzite, ilmenite and native gold. Pyrite occurs as coarse cubic crystals and as fine grained disseminations. *noronlex* exploration ltd.

Discussion cont'd.

Based on investigations of the Newlund Mine (Goldlund) deposits Page (1984) suggests that THE ONLY DEFINITIVE INDICATOR OF HIGHER GRADE GOLDVALUES IS THE EXISTENCE OF LATE FRACTURING OF THE EARLY VEIN MATERIAL.

This had been observed by Kuryliw in 1980, who observed that visible gold is commonly associated with later grey or white quartz introduced in the refractured veins and adjacent wallrock.

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THE 1987 PROGRAMME.

As a result of the two auriferous intersections obtained in drillhole 86-4, which averaged .75 oz/ton Au (uncut) over 3.8 feet corelength, a follow-up exploration programme was planned in late May 1987.

This programme consisted of limited bulldozing, linecutting, VLF/Magnetometer surveys, some reconnaissance geology and diamond drilling.

A two-day bulldozing effort took place on June 29 and June 30,1987 and centred in the area of the granodiorite west of the southernmost bay of Troutfly Lake , near the 1986 drilling and herewithin referred to as the "N° 1" granodiorite, and in an area some 2400 feet southwest of this bay, where Billiton (1984) had indicated the presence of a second granodiorite zone - "N° 2".

Bulldozing near this second zone failed to expose the granodiorite due to topography (swamp and steep hillsides), but uncovered a large quartz vein system in the swamp, carrying galena and pyrite in blebs and disseminations with an odd speck of chalcopyrite: this quartz vein system was subsequently traced on surface for some 1600 feet in southwesterly direction. For bulldozed areas, see map in backpocket.

Immediately following the bulldozing, a drill moved in and commenced drilling north of the N° 1 granodiorite, in an attempt to intersect as many shallowly north-dipping quartz veins as possible.

As drilling got underway, linecutting started in the same general area to accomodate the drill for the next 4 holes: as such, the initial gridcutting covered a "mini-grid", extending from 0.00 at Troutfly Lake to 8.00W, with picketlines every 200 feet, extending, where possible, 1000 feet north and south of the baseline, which runs at 50° magnetic.

After the drilling of M87-4, linecutting resumed and the grid was extended to 52.00W with picketlines every 200 feet and length of picketlines 1000 feet north and south of baseline.

On November 2nd, 1987, the last hole, M-87-8 was shut down and the drill moved to the Camreco minesite.

The 1987 programme cont'd.

GENERAL INFORMATION:

Programme responsibility: Norontex Exploration Ltd. - Dryden

1) Linecutting: Breezeway Exploration Inc., D.Breeze, 1234 Downing Street Winnipeg.

2) Bulldozing: Hutchinson Contractors - Dryden; equipment - Cat D-9

3) Ground geophysical work: Operators: a) Breezeway Exploration Inc.
b) Norontex Exploration Ltd.
Instrument: I.G.S. Scintrex - with base station.

4) Diamond Drilling: Ed Fontaine Diamond Drilling Ltd. Kenora core size: B.Q. number of holes: 8 total footage: 2490 feet

5) Assaying: Custom Fire Assaying, Paul Okanski - Cochenour/Red Lake sample amount: one half assay ton. number of samples: 155.

6) Corelogging: Langelaar & van Enk, Norontex Exploration Ltd. L.Jones, B.Sc Geology, Waterloo. Graduated 1985. <u>Work experience L.Jones:</u> Kerr Addison - summer 1985; mapping N.Quebec Geocanex - summer 1986; Pickle Lake area, N.W.Ontario geology, geochemistry, diamond drill supervision Prospectors Of Canada - summer 1987; mapping Mine Centre area. Gallo Exploration Services - summer 1987; mapping

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GROUND GEOPHYSICAL SURVEYS.

The ground geophysical surveys are covered in detail by R. van Enk's report, dated December 8,1987, entitled "Camreco Inc, Mistango option, N.W.Ontario, combined Magnetometer / VLF survey".

For the purpose of this report, it suffices to reiterate his conclusions in which it is stated that "four magnetic anomalous trends were outlined which are associated with bands of granodiorite outcrop. The survey was not successful in the detection of bedrock conductors important to the exploration for gold on the property".

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DIAMOND DRILLING.

A total of 2490 feet of BQ-size core was drilled in 8 holes; total number of samples is 155. The core is stored in metal racks north of the main office building at the Camreco mine site amidst primarily Goldlund underground drill core: the rack is identified as "Mistango". For location of drillholes, see map in backpocket.

Diamond drill hole M87-1 was drilled at 50°, grid south at 0.00 picketline, 1.73 N, in an attempt to intersect as many shallowly dipping quartz veins in the granodiorite, some 60 to 80 feet south of the collar. This hole never reached the granodiorite, due to the fact that the granodiorite apparently dips less than 45° to the south. M 87-1 was stopped at 407 feet, after intersecting predominantly spherulitic (variolitic?) lavas within dacites, rhyo-dacites and rhyolites.

Diamond drill hole M87-2, drilled at 70°, grid north, at 0.81S and 0.22W collared in the granodiorite, which is locally silicified and displays the characteristic "Goldlund" bleaching away from the quartz veins; pink alteration is present.

The amount of pyrite is generally less than 2%. The rocks are moderately to weak to non-magnetic. A total of 23 samples were taken, 21 returning "trace", whereas two samples assayed .06 oz/ton Au over 2 feet (72.0 - 74.0) and .08 oz/ton Au over 1.5 feet. (93.0 - 94.5)

Diamond drill hole M87-3, drilled at 65° grid north, at 6.80W and 1.27S, was drilled in an attempt to confirm and expand the gold values, obtained in Kuryliw's 1986 drilling, at a deeper level.

This hole intersected two granodiorite zones between 82.5 feet and 202 feet with locally variable silicification, bleaching and pink alteration; overall pyrite less than 2%. A total of 21 samples were taken, of which one returned a .06 oz/ton Au over 2 feet (102.9 - 104.9), the balance assayed "trace"

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Diamond drilling cont'd.

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Diamond drill hole M87-4, drilled at 10.00W and 1.70S at 65°, grid north, was drilled to intersect the westward extensions of the two granodiorite zones, intersected in M87-3. Eventhough minor alteration and minor quartz veining was encountered, assay results of the samples taken in the granodiorite were all "trace".

Diamond drill hole M87-5, set up at 22.91W and 10.27S and drilled at 45° to the north, intersected two zones of a variable granodiorite between 219.0 and 261.0 and 279.0 and 307.0; assay results of samples taken, all returned "trace".

This hole did NOT intersect the rather prominent quartz vein system, as exposed on surface by bulldozer; this quartz vein system may locally reach width of up to 6 feet, carrying big "blebby" pyrite in places, with galena and minor chalcopyrite. Reconnaissance samples taken from the quartz vein all assayed "trace" for gold.

It is surmised that the quartz vein peters out at depth, as several of the following holes did not intersect the vein either.

Diamond drill hole M87-6, collared at 28.00W and 9.20S, drilled at 45° grid north, intersected finegrained granodiorite between 187.4 and 234.0 with only minor narrow quartz veinlets.

All granodiorite samples assayed "trace" for gold.

Diamond drill hole M87-7, at 34.00W and 7.65S, drilled at 45° to grid north, intersected two zones of granodiorite, between ±102.6 and 124.3 and 183.0 and 213.0; there is virtually no wallrock alteration.

Some bleaching occurs near quartz veins in the first intersected zone, whereas the second zone displays a highly silicious section from 193.0 - 201.0, with some coarse pyrite.

Extensive sampling in both zones returned "trace" for gold. This hole was stopped in unaltered granodiorite, with no quartz veins.

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Diamond drilling cont'd.

Diamond drill hole M87-8, collared at 36.00W and 1.70S. at 50° grid north, was drilled to test the west extension of the N° 1 granodiorite, which off and on outcrops on or just north of the baseline and which is rateher prominent on line 36.00W.

This hole intersected the granodiorite between 15,8 and 66.5 feet, indicating a very shallowly south-dipping granodiorite: probably less than 35°! The granodiorite is generally non- to weakly altered, with minor quartz veins and minor carbonatization; only between 48.3 and 50.2 does strong alteration with strong pyritization (10%) occur. All samples returned "trace" for gold.

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CONCLUSIONS AND RECOMMENDATIONS.

The 1987, eight-hole drill programme failed to establish any auriferous zone(s) of economic importance on the Mistango claimgroup, located in the Laval township, N.W.Ontario.

The gold values obtained in drillhole M87-2 are anomalous (.06 and .08 oz/ton Au), as are the values obtained in Kuryliw's drilling in 1986. However, the drilling has not established any continuity and the findings todate suggest that the sporadic gold values which occur in the granodiorite on the Mistango ground are an exception, as much so as the sighting of v.g. in the drillcore from the former Eaglelund showing, some 5 miles northeast of the Camreco mine site, immediately west of highway 72. (Assessment files Tarbush Lode Mining Limited, 1985)

It is recommended that presently no further work be conducted on the 88 Mistango claims, which during September 1987 have been transferred to Camreco Inc.

The claimgroup should be reduced to such a number that all granodiorite dikes or zones are covered " in situ" and on strike and that 200 days can be applied to these remaining claims. This will protect the reduced property for the next five years, PROVIDING THAT <u>TIME EXTENSIONS</u> are applied FOR EACH CONSECUTIVE YEAR, PRIOR TO THE ANNIVERSARY DATE and a LEGAL SURVEY of these claims IS DONE IN YEAR 5! The 5-year period will provide ample time to observe and act on any new developments in the general area!
noronlex exploration Itd.

CERTIFICATE OF QUALIFICATIONS.

I, Joop Langelaar, of the Town of Dryden, in the Province of Ontario do hereby certify that:

- 1) I am a consulting geologist and reside at 3 Bedworth Road, Dryden Ontario.
- 2) I am a Professional Engineer in the Province of Manitoba.
- 3) I am a graduate of the State University of Utrecht, The Netherlands, and hold a Bachelor of Science degree and a Master of Science Degree in Geology and Sedimentology.
- 4) I have been practising my profession as a Geologist since 1966. For a period of 16 years I worked nationally and internationally for a major Canadian Mining Company: during the last 6 years as Manager of Exploration.
- 5) Since 1978, I own 300 shares of Goldlund Mines; I do not expect to receive, either directly or indirectly any interest in the securities of Mistango Consolidated Resources Limited and or Camreco Inc.
- 6) The accompanying report is based on personal involvement in the 1987 exploration programme.



DIAMOND DRILL LOGS.

M 87 - 1 TO M 87 - 8 incl.

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		MISTANGO CONSOLIDATED RESOURCES	LTD. Diptest @ 210'- 47°
PROPERTY Mis	stango	CLAIM NO. 7 645074 BEARING 145°	LAT. 1+73N HOLE NO. M-87-1
DRILLED BY	Ed Fontain	e Drilling DAY STARTED August 3/87 ANGLE 50°	DEP. 0 TOTAL DEPTH 407'
LOGGED BY	angelaar	DAY COMPL- August 14/87 NTS 52F	ELEV. PAGE NO. 1
FOOTA	GE	FORMATION	SAMPLE NO. WIDTH GOLD AVERAGE
FROM	10		02/1011
0	5.0	Casing	
5.0	19.3	Ryolite flow; fine grained conchoid. break, dark grey	
19.3	23.9	Variolitic lava; well developed spherulites; two ½"	
		dtz vns near 22.0'	
23.9	29.8	Rhyolite	
29.8	56.4	Predom Mar. variolitic lavas with some rhyolite	
		"interbeds"; locally considerable quartz flooding-	
		quartz veins & veinlets in the variolitic sections;	
		odd specks of Py and minor Po overall less than 1%	
		minor tourmaline and chlorite "schlieren". Vario'	
		lava=magnetic; substantial qtz flooding (silicification)	
		and carb devel.over last 2'	
56.4	72.0	Rhyolite-rhyodac flow; odd ½"-3/4" qtz carb veins @	
		45° to core; odd minor specks & cubes of Py.	
72.0	80.0	Variolitic lavas; bottom ctc irregular at 5-10° to	KOE OF MAN
		sub parallel to core over 2½'. quartz flooding at	Sol.
		77'; minor brecciation, odd tourmaline	
80.0	93.5	Predom rhyo-dacite; fine grained dark grey. May	I d. LATELANK
		contain minor variolitic lava interbeds.	10 3 3 X
93.5	119.0	Alternating flows of variolite lavas and rhyolitic to	COLD ENGIN
		rhyo-dacite material; whole interval weak-moderately	a malant
		magnetic. Odd specks of Py; no quartz veins, but odd	It lock,
*		1mm carb veinlet. No distinct core angles. Badly	
		broken core @ 98.6 over 4": minor shear(?)	
	-	-	" NOPOPULCX exploration the

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HOLE NO. M-87-1

PAGE NO. 2

F (119.0 119.0 123.8	5 TANGO AGE 123.8 123.8 158.0	FORMATION Variolitic lava, Top contact sub parallel to 5° to core Bottom contact transitional into next unit of moderatel magnetic rhyo dacite (fine grained, dark grey) Variolitic lavas; variolites entirely to poorly developed; First 3-4' rhyodacite; bottom ctc trans-	AMPLE NO.	WIDTH 6
158.0	234.0	Alignment of varioles @ 25P to core @ 140.4; Epidotization @ 151 over one foot may contain minor shear @ 127' over 2' Variolitic lavas; well develop var ioles, moderate- strongly magnetic; finely dissim. magnetite observed. May contain 1-2' section of rhyodacite near 195 but contacts are hard to pinpoint. No pyrite or pyrrhotite observed.		
234.0	281.0	Predom. variolittc lava contains rhyolite interval near 257 for at least 3-4 feet. Badly broken core @ 257 over 1'; @262 over ½' and @ 271 over ½'.Odd speck and minor streaklet of Py near 269 overall less than 1%. Broken pieces of core show hematite staining along fractures; some small sections could be rhyo- dacite.		
281.0	291.2	Variable intermittent flows -rhyodacites-dacites with variolitic intervals; weak schistocity @ 30° @ 284' Odd Qtz carb vns and veinlets at 45° to core.		
291.2	297.8	Predom variolitic lava; odd qtz carb/granodiorite stringlets with up to 3% Py, thichness less than 3mm.		, ,
297.8	301.0	Mix of rhyolitic intervals with quartz and qtz carb vns and veinlets, some brecciated and minor variolitic	R9701	3.2

MISTANGO CONSOLIDATED RESOURCES LTD.

~		352.0 387 0	349.5	310.0	con't	FOOTA
		387.0	352.0	349.5	301.0	.GE to
END OF HOLE	<i>epidote</i> veinlet near 387.4; Last foot contains 3" of white qtz vns @ 30° with some tourmaline; no mineral- ization. (1 speck of Py)	Mix of rhyolites and variolitic lavas occ qtz string- let with minor apatite; 1 eptdote stringer @ 361.8. Odd fairly dissimminated speck of Py.	Rhyolites-rhyodacites; contains few bands and string- lets of apatite and weakly Py (dissimminated) up to 3% at 339.2. Odd Py stringer with odd speck of Cp	granular type. qtz veins @ 30° to 45° to core. Rhyolites and variolitic lavas;overall more variolitic lavas. Odd speck of Py, much less than 1%.	lavas; Py up to 6% in qtz vns only. Quartz is of	FORMATION
			R9702			SAMPLE NO.
			≥.5			WIDTH
<u>ē</u>			.01			GOLD oz/ton
TOILICX exploratio						AVERAGE
3 R.						

DRILLED BY PROPERTY Mistango LOGGED BY Langelaar FROM 0 52.8 ω. 0 54.4 56.0 FOOTAGE Ed Fontaine Drilling 54.4 52.8 з. 0 56.0 58.0 5 and moderate "bleaching"; generally pinkish colouration |sample core @ 43.2 over 8'. 3.0 to4.0 1%" q.v.vein, check Odd speck of Py mod.-strongly magnetic; Badly broken discolouration near hairline fractures. pyrite. quartz carb fractures-ranging from 2mm to 25mm the appearance/no distinct grains. Very few quartz and Granodiorite, MISTANGO Py in cubes and specks; mag. \$ilicification as noted below; this interval is moderatd; pften contain tourmaline. stringers quarts veins range form few mm to 25mm and pverall less than 2-3%; development. overall increase in Py content, but hear qtzvns and veinlets-feldspathization? and carb Granodiorite; substantial increase in silicification far quartz veinlets cut core @ 22° to 25°; very little Casing Granodiorite; Intense silicifation Granodiorite. to strongly magnetic. 'eldspathization qv @ 25° to core; width 5mm to 10mm ranodiorite, very little silicification, mod. magnetic everal 2mm qtz vns @ 45° to core. Hole starts off with 1½" q. v. greyish, med to coarse grained: Intense silicification and bleaching; CONSOLIDATED RESOURCES LTD. CLAIM NO. 3 645075 DAY STARTEDAugust 17/87 DAY COMPL- August 22/87 FORMAT ION Specks and cubes, plus odd Variable intensity of and carb and Odd Py; magnetic Minor reddish (hematite?) ANGLE SIN BEARING 320° mag LAT. Mottlec -70° SAMPLE NO. R9705 R9703 R9706 R9704 DEP. ELEV ONTARIO SECLOCICAL GURVEY π ASSESSMENT FILES .81S 1.6 1.0 WIDTH 2.0 .22W 1.6 m O 498 1 1980 OHFICE oz/ton -<: TП ţ ţ ţ ţ GULD HOLE NO. M 87-2 TOTAL DEPTH PAGE NO. O NOPONICX exploration hd PROVINCE AVERAGE 184 ' 0F C E D ANGELAAR 0041,1989 EXCINEER

Diptest @ 140' 64°

MISTANGO
CONSOLIDATED
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HOLE NO. M 87-2

PAGE NO.

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	169.0	145.0	137.5		136.0			119.5		118.0		116.0	114.0			102.0		con't	from	MA
	184.0	169.0	145.0		137.5			136.0		119.5		118.0	116.0			114.0		102.0	AGE T to	STANGO
END OF HOLE	Predominantly variolitic lava (mine terminology "spott dog") Odd ½" qtz vn. Virtually no mineralization.	Variable mafic meta volcanics; predom. tuffs (var. in fragment size) may contain minor flows. Weakly magnet	1%; non magnetic Fine grained diorite; weakly magnetic; odd barren qtz	ho silicif, carb or feldsp, odd speck of Py less than	Somewhat foliated diorite; contains 12mm wide qtz vn;	magnetic, this diorite is somewhat foliated with angle @ 70-80° to core-1 cm atz @ 133.4-non magnetic	granodiorite magnetite and diorite (dolerite) =now	At 119.5 2mm quartz vn marks boundary between silicifi	only one 2mmqtz vnlet Py 1-2%	Granodiorite, some patches with intense silicific	qtz vns; slight increase in Py, less than 2%	Granodiorite, slight increase in silicif, no discrete	Granodiorite, as above; Py less than 1% check sample	qtz vns other than at 105.5	locally silicific over several inches but no discrete	Granodiorite, weak to mod. altered; odd speck of Py	grey and coarser grained deeper into the hole.	check sample; mat. tends to become somewhat lighter	FORMATION	CONSOLIDATED RESOURCES LTD.
	<u> </u>	<u></u>	3		R9725			æd.		R9724		R9723	R9722						SAMPLE NO.	HOLE
					<u>-</u> 5					1. 5		2.0	2.0						WIDTH	NO- M 8
R					ţ					tr		tr	tr						GOLD oz/ten	37-2
FOILUX exploration t																			AVERAGE	PAGE NO.
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MISTANGO CONSOLIDATED RESOURCES LTD. κ

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PROPERTY	Mistango		CLAIM NO 639104	BEARING 320°	LAT.	I+27S	Н	LE NO. M 87-3	}
DRILLED BY	Ed Fontair	ne Drilling	DAY STARTED Aug 23/87	ANGLE -65°	DEP.	5+80W	0	TAL DEPTH 257'	1
LOGGED BY	Langelaar	& van Enk	DAY COMPL. Aug.27/87	SLN	ELEV		PA	GE NO. 1	
FOOTA	GE		FORMATION		AMPLE NO.	WIDTH	GOLD	AVERAGE	•
	7 0						02/1011		1
	• •		F						
1.0	18.0	Matic meta voic;	LUTTS						
18.0	19.3	Grey-white qtz vr	 top cta @ 45° odd Py at 	fracture	R9726	1.3	tress		
-		planes; mod magne	tic				⁻ - MG (79)	ASSESSALES FILES	Nr. 107
19.3	20.3	Mafic volc., mode	rately magnetic; no Py		R9727	1.0	<u>द</u>	្តៈ ភូតិ ភ្លា	
20.3	22.6	White qtz vn + gr	ey silicifica't area(all g	grey qtz)	R9728	2.3	÷	ADD I DEG	•···•
		odd Py less than	1% some co ū rse - minor pyr	rhotite				(
22.6	27.7	Mafic meta volc,	med tuffs; At 24.3 3/4" qt	tz vn;				m m o m	
		locally euhedral,	magn grainsstrongly mag	gnetic				The second s	
27.7	29.5	Var. mafic tuffs	with contorted sed? bands,	, which are	R9729	1.8	ţ		
		Py rich; core and	les ±55°						
29.5	48.2	Pred. mafic volca	nics at 32 section of euhe	edral.					
		magnetic over 2.2	0 3-5%						
48.2	82.5	Fine grained dion	ite-granodiorite; weak-mod	derately mag			_		
		hetic, virtually	no alteration! locally sl	lightly alteme	d				
82.5	104.9	Granodiorite, gre	y, slighlty to moderately	altered					
		with locally diss	im. Py; lower portion of s	section				THE CALL	-
		magnetic 83.9 - 8	<pre>85.1 strong pink alteratior</pre>	n several	R9730	1.2	ţ	RO	
		chloride qtz vns	(up to 1") with Py diss. a	at high core				A ANTERNAL A ANTERNAL	
		angles. 85.1 - 8	36.8 as above but less alt	and qtz vns	R9731	1.7	tr	Hamilton -/2	
		93.1 - 95.0 as 8:	3.9-85.1		R9732	1.9	tr		~
-		102.9 - 104.9 sti Þv (1-2%)	ong silicification (grey)	with dissim.	R9733	2.0	0.06	FRED END	· · · · · · · · · · · · · · · · · · ·
	-	-		-		-	_	NOPOINCEX exploration ltd.	

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HOLE NO. M 87-3

172.8 110.0 138.0 104.9 trom FOOTAG 172.8 138.0 190.3 110.0 5 167.3 to 167.8 white glassy quartz and locally small Py pods; 138.0 to 140.3 silic. Jand silica flooded; fine Py disseminations (up to 2%) Granodiorite; as above but locally strongly silicified section slightly to moderately magnetic. slightly magnetic htz stringers; less than 1% Py pink alteration, qtz flooding and stringers and Py pods, Granodiorite; weakly to strongly altered; locally with [161.3 to 162.5 silic; irregular qtz vein and Py pods [113.0; strong silicif. and q. v.'s with some Py; Granodiorite; grey green; fine to medium grained; (less than 2%) narrow q.v. and Py seams locally foliated no alteration except from 112.0 to Diorite; nagnetic 149.5 to 153.1 strong silic; Py diss + small pods noderately magnetic, strongly altered section seems le \parallel s 170.0 to 172.8 silic.; some diss. Py and qtz veins 45° 74.7 to 175.9 strong alteration; pink silicification qtz stringers (½" to 1") at core angles greater than 80.4 to 182.6 moderate to strong alteration, Py seams. tz stringers at various c.a 75.9 to 180.4 weakly to moderately altered, few white 72.8 to 174.7 slightly altered few qtz stringers less than 1") at c. a. of 45° dark green; fine grained, slightly foliated; FORMATION R9241 R9240 R9746 SAMPLE NO. R9238 R9737 R9745 R9239 R9736 R9735 R9734 2.8 ω. 6 2.3 1.2 WIDTH 0.05 2.2 4.5 1.2 1.9 tr oz/ton GOLD ţ ţ ţ ţ ţ ţ ţ ţ ţ **NOPOLUCX** exploration ttd. AVERAGE

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	HOLE
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	1 87-3

PAGE NO. 3

. –	252.8	239.6		208.5	·	202.0	100 2		con't	F00T/ from
	257.0	252.8	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	239.6		208.5	2022 D		190.3	AGE to
END OF HOLE	Mafic tuff; as 202.0 to 208.5.	<pre>moderatly magnetic Mafic tuff; dark green; medium to coarse grained local gabbroic appearance.</pre>	amphibolite facies; locally lamprophyric appearance becoming aphanitic and less variolitic towards bottom of section; foliation at 60° to 65° c.a. slightly to	Tuffs; grey to dark green; locally variolitic; upper portion strongly foliated and metamorphosed into	foliated at core angle of 35°; Angle of contact with granodiorite about 25° to 30°, foliation decreasing with increasing depth, weakly magnetic	Mafic tuff; fine grained; green; moderately to strongl	188.0 to 190.3 weakly altered	186.5 to 188 weakly to moderately silicified with few	182.6 to 186.5 strong alteration locally pink, Py pods overall Py 2%	FORMATION
		ly					R9244	R9243	R9242	SAMPLE NO.
							2.3	- 1 5	3.9	WIDTH
8							ţ	tr	tr	GOLD oz/ton
FOILICX explorat										AVERAGE
3 a										

		MISTANGO	CONSOLIDATED RESOURCES	S LTD.		Din te	t a 400 0'	- 610
PROPERTY Trou	tfly La	ike	CLAIM NO 639103 BEARING 320	LAT.	±1+70S		E NO. M 8	7-4
DRILLED BY ED	Fontain	e Drilling	DAY STARTED Aug 31, 1987 ANGLE -65°	DEP.	10+00W	101	AL DEPTH 4(0.0'
LOGGED BY van	Enk		DAY COMPL. Sept 5, 1987 NTS	ELEV.		PAG	ie no. 1	
FOOTAGE	0		FORMATION	SAMPLE NO.	WIDTH	GOLD	AVERAGE	
0	2.0	Overburden, cas	ìng					
2.0 6	1. 5	Granodiorite; g	reen; fine to medium grained; metamor-					
		phosed in highe	r green schist to lower amphibolite	C	TORO ORAT	CICAL SUS	VEY	
		facies; section	moderately foliated at core angles		HSCELCON Orf			
		60° to 70°; mod	erately magnetic; ampibolitic/biotitic		100 (
:		sections from 1	7.0 to 18.5; 24.0 to 29.0; 41.0 to 43.d		HLU 2		***********	
		52.5 to 57.0; t	hese sections are associated with		8 m 0 m	- < m 0		
		silicification	carbonatization and local sulphide	ſ				
		enrichment.						
		17.0 to 18.5 si	lic., carb. few irregular Py stringers	R9747	1.5	tr		
		24.0 to 26.0 bi	otitic; 1-2% Py diss and small pods;	R9748	2.0	tr		
		strongly silic.	from 25.0 to 25.5.	<u> </u>				
		26.0 to 28.6 as	24.0 to 26.0 only few narrow qtz	R9749	2.6	tr		
		veinlets at hig	h core angles.	<u></u>				
		40.6 to 42.6 st	rong amplibolite/biotite alteration;	R9750	2.0	tr		
		41.8 to 42.0 st	rong silic. and carb. Py and Po pods				}	
		up to 1" dia.						OF HAL
		52.0 to 54.8 am	phibolite facies local carb. and silic	R9751	2.8	ţ	04	01
		1-2% Py gradual	transition to next section.			_	PR	84
61.5 9	2.5	Gabbro; green t	o dark green; medium to coarse grained;				. L	ANGELAAR) It
		becoming strong	ly foliated towards bottom of section;				938	EER
		foliation at co	re angle of 70° to 80°					GIN
-		88.8 to 90.8 am	plibolite meta morphism and strong qtz-	- R9752	2.0	0.01	A Martin	A DE LE LE
		carb alteration	; qtz stringers at core angle of 40°				1	Oct 1, 1987
-		-		-	-		OFOILOX explora	tion Itd.

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M	STANGO	CONSOLIDATED RESOURCES LTD.	HOLE	NO. M	87-4	PAGE NO. 2
from	AGE to	FORMATION	SAMPLE NO.	WIDTH	GOLD oz/ton	AVERAGE
92.5	109.7	Andesitic tuff; green very fine grained slightly mag-	-			
		netic.				
109.7	112.8	Granodiorite; grey-green; very fine grained lower				
		portion with diss. magnetite.				_
112.8	131.0	Andesitic tuff; very fine grained; grey green; locally				
		coarser bands; moderately to strongly foliated at				
		core angle of 40° to 50°. upper portion contains diss.				
		<pre>magnetite (2 to 3%); remainder weakly magnetic;</pre>				
		transition to next section gradual.				
131.0	203.0	Granodiorite; grey green; fine-grained; weakly to				
		moderately magnetic weakly and locally moderately to				
		strongly foliated to core angles of about 60°				
		170.8 to 193.6 moderately to strongly altered some,				
		mainly silicified and qtz flooded with locally thin				
		(%") qtz stringers; Py enriched (1-2%); carbonate only				
		in a few narrow stringers and small pods.				
	<u></u> ,	170.8 to 173.0 moderate alteration locally pink.	R9753	2.2	tr	
		173.9 to 175.6 as above	R9754	1.7	tr	
		175.6 to 178.6 weak-moderate alt.	R9755	3.0	tr	
		178.6 to 181.6 as above	R9756	3.0	tr	
		181.6 to 183.3 strong alteration, qtz flooding "good	R9757	1.7	tr	
		looking"				
		183.3 to 186.0 weak-moderate alteration	R9758	2.7	tr	
		186.0 to 188.7 moderate alteration	R9759	2.7	tr	
-		188.7 to 191.0 weak to moderate alteration	R9760	2.3	tr	
		191.0 to 193.6 as above	R9761	2.6	tr	
		201.3 to 202.3 weak alteration	R9762	1.0	tr	
					70	COULOX exploration Itd.
				-	101	OILLCX exploration Itd.

Consolition Fiber Resources fib. Hot No. model Work No. model Hot No. model Hot No. model 227.0 Andesitic tuff; green; very fine grained 5% follated Example for No. Swipt No. Winn Gitton Avenue 251.1 Mark section vague; locally thin irregular seams of Py. Swipt No. 2.0 tr 252.2 Quartz with next section vague; locally thin irregular angles of about 75°; moderately magnetic. No.7 No.7 1.1 tr 250.5 Andesitic tuff; green; fine locally coarse grained; 260.0 1.0 tr 1.1 tr 251.2 Quartz vein; white glassy quartz No.7 No.7 1.1 tr 250.5 Andesitic tuff; green; fine locally coarse grained; 260.0 1.0 tr 1.1 tr 251.7 Andesitic furf; green; fine locally coarse grained; 260.0 1.4 tr 1.4 tr 252.2 Quartz vein gradual transition to next section. No.7 No.7 1.4 tr 264.8 266.2 irregular, white parined; green; fine grained, no alteration, moderately magnetic. 1.4 tr 27.0 <th></th> <th></th> <th></th> <th></th> <th>337.2</th> <th></th> <th></th> <th>328.0</th> <th></th> <th>308.7</th> <th>293.7</th> <th></th> <th></th> <th></th> <th>270.5</th> <th></th> <th></th> <th></th> <th></th> <th>252.2</th> <th>251.1</th> <th></th> <th></th> <th>227.0</th> <th></th> <th></th> <th></th> <th></th> <th>203.0</th> <th>from</th> <th>FOOTA</th> <th>SIW</th>					337.2			328.0		308.7	293.7				270.5					252.2	251.1			227.0					203.0	from	FOOTA	SIW
FORMATION SkiPLE NO. HOLE NO. MOTH GIVEN Andesitic tuff; green; very fine grained SkiPLE NO. NOTH GIVEN AVERAGE S2) foliated tooundary with next section vague; locally thin irregular 80763 2.0 tr seems of Py. variantic; with varialitic bands; fiattened_at core 1.1 tr 200 tr angles of about 75°; moderately magnetic. R9764 1.1 tr Quartz vein; white glassy quartz R9766 1.0 tr tr 260.0 taffic tuff; green; fine locally coarse grained; R9766 1.1 tr 260.0 taffic tuff; very fine grained; green; with R9766 1.4 tr 261.0 taffic tuff; very fine grained; green; fine grained, no R9766 1.4 tr andesitic tuff; very fine grained; green; with R9766 1.4 tr numerous thin (less than 1/16°), carbonate seams at 1.4 tr tr core angles of about 75° and few very thin Py seams. R9766 1.4 tr andesitic tuff; agreen; fine to medium grained, no R9767 1.4 tr alteration, moderately magnetic. Not mediante seams at R9767 1.2 tr andesitic tuffs; as above but with 1% finely diss. Py <t< th=""><th></th><th></th><th></th><th></th><th>400.0</th><th></th><th></th><th>337.2</th><th></th><th>328.0</th><th>308.7</th><th></th><th></th><th></th><th>293.7</th><th></th><th></th><th></th><th></th><th>270.5</th><th>252.2</th><th></th><th></th><th>251.1</th><th></th><th></th><th></th><th></th><th>227.0</th><th>to</th><th>SF</th><th>TANGO</th></t<>					400.0			337.2		328.0	308.7				293.7					270.5	252.2			251.1					227.0	to	SF	TANGO
HOLE NO. WIDTH GOLD OZ/LON AVERAGE R9763 2.0 tr AVERAGE ar 1.1 tr Br R9764 1.1 tr Br R9765 1.0 tr Br R9766 1.4 tr Br R9766 1.4 tr Br R9767 1.2 tr Br		increasing number of carbonate seams and bands from	337.2 to 338.4 strong carbonate qtz alteration some Py	and small hornblend(?) phenocrysts.	Andesitic tuffs; as above but with 1% finely diss. Py	"granodiorite" sections	carbonate seams. (core angle 70 to 75°); several	Andesitic tuffs; as 270.5 to 293.7 but with less	alteration, moderately magnetic.	Granodiorite; green; fine to medium grained, no	Andesite(granodorite); green; fine grained, massive	Calcite filled vacuoles	core angles of about 75° and few very thin Py seams.	numerous thin(less than 1/16"), carbonate seams at	Andesitic tuff; very fine grained; green; with	quartz vein gradual transition to next section.	264.8 to 266.2 irregular, white pod like glassy	260.0 to 261.0 altered with 1" irregular qtz vein	upper portion variolitic	Andesitic tuff; green; fine locally coarse grained;	Quartz vein; white glassy quartz	angles of about 75°; moderately magnetic.	to aphanitic; with variolitic bands; flattened_at core	Mafic tuff or Flow rock; grey and green; fine grained	seams of Py.	boundary with next section vague; locally thin irregul	5%) foliated	210.7 to 212.7 seams and pods of massive Py (overall	Andesitic tuff; green; very fine grained	F URMATION		CONSOLIDATED RESOURCES LTD.
WIDTH GOLD AVERAGE 2.0 tr 1.1 tr 1.1 tr 1.2 tr		R9767															R9766	R9765			R9764					TE		R9763		SAMPLE NO.	1	HOLE
GOLD oz/ton AVERAGE tr tr tr tr tr tr tr tr		1.2															1.4	1.0			1. 							2.0		HIDIN		NO. M 8/
AVERAGE NO. 3	ion	tr					<u> </u>										tr	tr			tr						<u>. </u>	tr		oz/ton	G01 D	-4
	YOIUCX exploration Itd.																													AVERAGE		PAGE NO. 3

			cont 400.0	trom LO	MISTANGO FOOTAGE
	Hole drilled to intersect westward extensions of two "granodiorite" dykes intersected in M 87-3; projected	END OF HOLE	345' ; local biotite alteration/ amphibolite meta- morphism locally moderately to strongly foliated. Core angle veining and foliation varying from 75 to 60 gemerally decreasing towards bottom of section.		CONSOLIDATED RESOURCES LTD.
				u01/20	HOLE NO. M 87-4 PAGE N
E Contraction of the second seco					VO4

exploration #d	 						
t r	·	9771R	205.8	204.7	<pre>patches erratically distributed. -0.2' wide quartz vein</pre>	205.8	204.7
		-			perpendicular to core axis. Abundant carbonate and quartz-carbonate stringers up	204.7	193.0
					151.0 to 157.0 foliation shallows to parallel to core axis. 168.0 to 178.0 quartz-carbonate stringers		
2			C		of vein brecciated 128.0 to 140.0 foliation shallows to 15° to core axis.		
+ <u>-</u>	n c	0770D			in blebs		
+ 5	•	07600	1)))	00	$\frac{1}{2}$ zone is 20-35% pyrite.		
tr	1.0	9768R	77.9	76.9	<pre>moderately magnetic. -1-2% pyrite overall, also concentrated into one</pre>		
		A E C E I V			feldspar-biotite-quartz schist; calcite stringers uncommon, usually 30-50° to core axis; commonly		
	e e	APR 21 19			stringers and blebs; occasionally metamorphosed to amphibolite facies- eg. 78.0 to 88.0 essentially a		
	SUSVEY	ASSESSMENT F	· C		fine grained; weak to moderate foliation at 40° to core axis; pervasive carbonate; trace pyrite in fine		
					Andesite Tuff: Green, usually medium grained, occasionally grades to	193.0	63.0
GOLD oz/ton AVERAGE	WIDTH	SAMPLE NO.	10	FROM	- FORMATION	GE TO	FROM FROM
	SE NO.	PAC	LEV.	 	DAY COMPLOCT. 3. 1987 NIS	 Jones 	LOGGED BY L
401.0'	TAL DEPTH	91W T01	EP. 22+	D	ine DAY STARTED Sept 18, 1987 ANGLE -45	Ed. Fontai	DRILLED BY
87-5	<u>_</u> E NO. M-8	27S (HOL	AT. 10+:		CLAIM NO. A 639105 BEARING 320	stango	PROPERTY Mi
	4		•	5-	MISTANGO CONSOLIDATED RESOURCES		

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PAGE NO. 2

219.0 205.8 trom FOOTAGE 261.0 219.0 279.0 5 Check samples only. no bleaching or alteration within host rock... and minor Po. of hybridized metavolcanics. Variable Granodiorite; granodiorite is irregular and wavy. banded intervals. scattered through interval. Occasional carbonate Andesitic Tuff; banding. Variable Intermediate Tuffs-Flows; Variable as this interval may contain some sections Intensely carbonatized; non magnetic, wavy to kink Tuffs have convoluted/contorted schistosity - KINK equal to 1% of blue quartz streaklets of Po and minor Py; quartz vein at to core virtually no Po or,Py -granodiorite; contains 10 mm quartz vein plus -same; odd Py and Po stringlet less than or -granodiorite; odd Py ; weak foliation at 50° -granodiorite; some what hybrid; odd veinlet; -granodiorite; minor quartz veinlets; patches -granodiorite; no quartz veins; trace Po and Py -granodiorite; odd speck of Po -granodiorite; weak to moderately foliated 15° to core/contains tourmaline. Finely disseminated magnetite erratically Very few 2 mm - 10 mm quartz veins Contact with next interval of FORMATION Overall odd bleb of Py FROM 230.0 248.0 243.0 238.0 233.0 228.0 225.0 259.0 261.0 246.0 251.0 240.0 236.0 232.0 230.0 227.0 Ы SAMPLE NO. 9779R 9778R 9777R 9776R 9774R 9773R 9772R 9775R noronuex WIDTH 2.0 3.0 ω •0 2.0 **ω**.0 2.0 2.0 2.0 exploration fid oz/ton GOLD ţ ţ f tr ţ 5 5 ţ AVERAGE

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	340.	327.4	319.0		307 0		con't 279.0	F001AGE
	357.0	340.3	320.5		210 0		279.0	to
	<pre>quartz vein at 330.0; minor pink (hematite?) alteration/staining at 229.6. <u>Variolitic Lavas;</u> Minor sections silicified (?) or consisting of felsic material; could be "squeezed variolitic material"</pre>	Contains minor silicified intervals. Mafic Volcanics; Abundant magnetite grains; odd carbonate veinlet. 2"	Intermediate to Basic Flow; Light green - magnetic.	pink (hematite) alteration, silicification and amphibolitization. Minor sedimentary interbeds (?) Odd speck of Py. -check sample	<pre>banding. -check sample with overall Po at about 2-3% weak to moderately foliated at 40°. Strongly altered foliated mafic tuff with minor</pre>	<pre>Variable due to meta-volcanic inclusions or intervals; in most instances, hard to pinpoint contacts due to merging or gradational nature; silicification well developed. No quartz veins; little to no mineral- ization, except for first 5" at 279.0: Po stringers up to 6%; some meta volcanic intervals show kink</pre>	veining. Odd speck of Po and Py. Increase in Po content to 4% over last 2". Variable Granodiorite;	FORMATION
				310.0	279.0			FROM
_				313.0	282.0			10
nor				9781R	9780R			SAMPLE NO.
OILLEY esp				з . 0	3.0			WIDTH
loration Nd			<u> </u>	ť	ţ			GOLD oz/ton
								AVERAGE

-									357.0					con't	from	Mis
			<u> </u>						401.0					357.0	AGE 1 to	STANGO
	200.0 310.0	DEPTH		E N D	-few quartz equal to 1-2	Py streaklets and "squeezed varioli	Virtually no Py c	Locally increased	Variable Intermed	alteration;	-check sampl	these odd veinlet	staining; slight	0dd ½" to 1" quar		CONSOLIDAT
	5 5. 0°	UNCORR	DIPTESTS	OF HOLE	carbonate veinlet:	l specks. Some int tic lavas" Check)r Po except for 3	l silicification ()	liate to Felsic Tuf	odd speck of Py	e: well silicifie		increase in fine p	tz carbonate vein	FORMATION	
	45.0° 47.0°	CORRECTED			; Py less than or	cervals may be	' near 367:0 minor	?) Odd quartz-	<u>fs;</u>		ed minor pink		yrite within	with hematite		ES LTD.
					365.0	<u></u>					355.0				FROM	
					367.0						357.0				10	HOLE NO
10					9783R						9782R				SAMPLE NO.	<u>M-87-5</u>
					2.0						2.0				WIDTH	PAG
Moralion Nd					tr						tr				GOLD oz/ton	E NO.
					<u></u>	<u> ;; ; ; ; ; ; ; </u>									AVERAGE	

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LosGD BVLangelaarDAY COM1. Oct 15, 1987MISELFV.PAGE NO. r_{REM} TOSample And Diebs of PyF00MATIONFROMTOSAMPLE NO.WIDTH029.030.0Boulder?Broken core - quartz vein rich granodiorite29.030.09794R1.029.030.0Boulder?Broken core - quartz veining in first 3°.1.09794R1.029.030.0Boulder?Broken core - quartz veining in first 3°.30.09785R3.010.1Light grey, silicous quartz veining in first 3°.1.033.09785R3.010.1Light grey, silicous quartz veining in first 3°.1.033.09785R3.010.2Light grey, silicous quartz veining in first 3°.1.033.09785R3.010.1Light grey, silicous quartz veining in first 3°.1.030.09785R3.010.2Light grey, silicous duarts contact with next unit at 32°.1.030.09785R3.010.2Parinde as in previous holes.Some intervals are biotite rich. ' Variable anounts of pyrite scattered biotic rich.' Variable anounts of pyrites cattered biotic texture, Py1.556.09787R2.0<	DRILLED BY	Ed Fontai	ne DAY STARTED Oct 6, 1987 ANGLE -45°		P. 28+(TAL DEPTH	+ 293.0	-
FROMTOFGMM/TOFGMM/TOFROMTOSAMPLE NO.WIDTH029.0Gasing9784R1.029.030.0Boulder? Broken core - quartz vein rich granodiorite29.030.09784R1.030.060.2Rhyelite-Rhyodacite: Light grey, silicous quartz veining in first 3'. - odd speck of Py in this interval than or equal to 2-3 mm wide cutting core at 16°; odd stringer of Po and Py; weak to moderately magnetic. Bortom contact with next unit at 32° . - check sample30.09785R3.060.2±106.0Wafic to intermediate volcanics, andesites, dacites; some intervals may be spherulitic lavas, not as coarse piotite rich. Yariable amounts of pyrite scattered throughout, in blebs, specks, or stringers. Moderate to very strongly magnetic. At 94.0 strongly sheared at 19° over 1-2', followed by 6" of heavily quartz carbonate material with coarse pyrite, some cubic; some point check sample in places 3-4%; overall 1-2% - spherulitic texture, Py variable in places 3-4%; overall 1-2% - shear zone with quartz carbonate and Po, Py up83.085.09789R P 2.076.078.09789R2.076.078.09789R2.076.078.09789R2.076.078.09789R2.076.078.09789R2.076.078.09789R2.076.078.09789R2.076.078.09789R2.076.078.09789R2.076.078.09789R2.076.078.09789R <th>LOGGED BY</th> <th>Langelaar</th> <th>DAY COMPL. Oct 15, 1987 NTS</th> <th> </th> <th>LEV.</th> <th>PA</th> <th>GE NO.</th> <th></th> <th></th>	LOGGED BY	Langelaar	DAY COMPL. Oct 15, 1987 NTS	 	LEV.	PA	GE NO.		
No. 29.0 Casing 29.0 Solution	FDDM FOOTA	GE	FORMATION	FDOM	5	SAMPI F NO	WINTH	GOLD	VEDAG
29.0 30.0 Boulder? Broken core - quartz vein rich granodiorite 29.0 30.0 9784R 1.0 30.0 60.2 Rhyolite-Rhyodacite: 1000000000000000000000000000000000000	0	29.0	Casing						
30.0 60.2 Rhyolite-Rhyodacite: Light grey, silicous quartz veining in first 3'. -odd speck of Py in this internal throughout section odd scattered quartz veiniets less than or equal to 2.3 m wide cutting core at 16°; odd stringer of Po and Py; weak to moderately magnetic. Bottom contact with next unit at 32°. -check sample 30.0 33.0 9785R 3.0 60.2 ±106.0 Mafic to intermediate volcanics, andesites, dacites; some intervals may be spherulitic lavas, not as coarse piotite rich. Variable amounts of pyrite scattered throughout, in blebs, specks, or stringers. Moderate to very strongly magnetic. At 94.0 strongly quartz tarbonate material with coarse pyrite, some cubic; some Po: Check samples as follows: several quartz pods; spherulitic texture, Py variable in places 3-4%; overall 1-2% 54.0 78.0 9787R 2.0 4.0 8% over several inches. 97.0 78.0 9787R 2.0 5.1 10% over all 2% + -shear zone with quartz carbonate and Po, Py up 94.0 95.5 9789R 1.5	29.0	30.0	Boulder? Broken core - quartz vein rich granodiorite	29.0	30.0	9784R	1.0	tr	
30.0 60.2 Rhyolite-Rhyodacite: 30.0 and an and a set of the set			with specks and blebs of Py 2-3%						
Light grey, silicous quartz veining in first 3'. 30.0 33.0 9785R 3.0 Throughout section odd scattered quartz veinlets less than or equal to 2-3 mm wide cutting core at 16°; odd 30.0 33.0 9785R 3.0 Bottom contact with next unit at 32°. -check sample 54.0 56.0 9786R 2.0 refrect with next unit at 32°. -check sample 54.0 56.0 9786R 2.0 grained as in previous holes. Some intervals are printe scattered throughout; in blebs, specks, or stringers. Moderate to very strongly magnetic. At 94.0 strongly sheared at 19° over 1-2°, followed by 6" of heavily quartz carbonate material with coarse pyrite, some cubic; some Po: Check samples as follows: Some colored at 1383 APR 8 1 1383 several quartz pods; spherulitic texture, Py variable in places 3-4%; overall 1-2% 56.0 9789R 2.0 shear zone with quartz carbonate and Po, Py up 40.0 95.5 9789R 2.0 to 8% over several inches. 50.0 97.0 97.0 97.0	30.0	60.2	Rhyolite-Rhyodacite;						
-odd speck of Py in this interval30.033.09785R3.0Throughout section odd scattered quartz veinlets less than or equal to 2-3 mm wide cutting core at 16°; odd stringer of Po and Py; weak to moderately magnetic. Bottom contact with next unit at 32°. -check sample30.033.09785R3.060.2±106.0Mafic to intermediate volcanics, andesites, dacites; grained as in previous holes. Some intervals are biotite rich. Variable amounts of pyrite scattered throughout, in blebs, specks, or stringers. Moderate to very strongly magnetic. At 94.0 strongly sheared at 19° over 1-2', followed by 6" of heavily quartz carbonate material with coarse pyrite, some cubic; some Po: Check samples as follows: several quartz pods; spherulitic texture, Py variable in places 3-4%; overall 1-2% -shear zone with quartz carbonate and Po, Py up to 8% over several inches.80.09785R some 2.03.060.2±0 8% over several inches.54.056.09786R some coarse coarse coarse coarse coarse come cubic; some cubic; some cubic; some and cubic texture, Py several inches.54.056.09786R some 2.02.060.2±105.0±1000000000000000000000000000000000000			Light grey, silicous quartz veining in first 3'.				~~		
60.2 #106.0 Throughout section odd scattered quartz veinlets less than or equal to 2-3 mm wide cutting core at 16°; odd stringer of Po and Py; weak to moderately magnetic. Bottom contact with next unit at 32°. -check sample grained as in previous holes. Some intervals are biotite rich.' Variable amounts of pyrite scattered throughout, in blebs, specks, or stringers. Moderate to very strongly magnetic. At 94.0 strongly sheared at 19° over 1-2', followed by 6" of heavily quartz carbonate material with coarse pyrite, some cubic; several quartz pods; spherulitic texture, Py variable in places 3-4%; overall 1-2% -shear zone with quartz carbonate and Po, Py up56.09786R 56.02.060.2#106.0Mafic to intermediate volcanics, andesites, dacites; biotite rich.' Variable amounts of pyrite scattered throughout, in blebs, specks, or stringers. Moderate biotite rich.' Variable amounts of heavily quartz carbonate material with coarse pyrite, some cubic; several quartz pods; spherulitic texture, Py variable in places 3-4%; overall 1-2% -shear zone with quartz carbonate and Po, Py up 4.056.09780R 9789R 2.02.060.2#0.80.9788R 4.52.02.02.0			-odd speck of Py in this interval	30.0	33.0	9785R	3.0	tr	
60.2 ±106.0 than or equal to 2-3 mm wide cutting core at 16°; odd stringer of Po and Py; weak to moderately magnetic. Bottom contact with next unit at 32°. -check sample 54.0 56.0 9786R 2.0 60.2 ±106.0 Mafic to intermediate volcanics, andesites, dacites; grained as in previous holes. Some intervals are biotite rich.' Variable amounts of pyrite scattered throughout, in blebs, specks, or stringers. Moderate to very strongly magnetic. At 94.0 strongly sheared at 19° over 1-2', followed by 6" of heavily quartz carbonate material with coarse pyrite, some cubic; some Po: Check samples as follows: several quartz pods; spherulitic texture, Py variable in places 3-4%; overall 1-2% -shear zone with quartz carbonate and Po, Py up to 8% over several inches. 76.0 78.0 9789R 2.0 1.5 58% over several inches. 50.0 9789R 2.0			Throughout section odd scattered quartz veinlets less				••••••		
60.2 ±106.0 stringer of Po and Py; weak to moderately magnetic. 54.0 56.0 9786R 2.0 60.2 ±106.0 Mafic to intermediate volcanics, andesites, dacites; 54.0 56.0 9786R 2.0 60.2 ±106.0 Mafic to intermediate volcanics, andesites, dacites; 54.0 56.0 9786R 2.0 60.2 ±106.0 Mafic to intermediate volcanics, andesites, dacites; 54.0 56.0 9786R 2.0 grained as in previous holes. Some intervals are biotite rich. Variable amounts of pyrite scattered throughout, in blebs, specks, or stringers. Moderate to very strongly magnetic. At 94.0 strongly sheared at 19° over 1-2', followed by 6" of heavily quartz carbonate material with coarse pyrite, some cubic; APR 2 1 1383 APR 2 1 1383 several quartz pods; spherulitic texture, Py variable in places 3-4%; overall 1-2% 76.0 78.0 9787R 2.0 variable in places 3-4%; overall 12% + -shear zone with quartz carbonate and Po, Py up 93.0 85.0 9789R 1.5 to 8% over several inches. 6% over several inches. 95.5 9789R 1.5			than or equal to 2-3 mm wide cutting core at 16°; odd						
60.2 ±106.0 Bottom contact with next unit at 32°. -check sample 54.0 56.0 9786R 2.0 60.2 ±106.0 Mafic to intermediate volcanics, andesites, dacites; Some intervals may be spherulitic lavas, not as coarse grained as in previous holes. Some intervals are biotite rich.' Variable amounts of pyrite scattered throughout, in blebs, specks, or stringers. Moderate to very strongly magnetic. At 94.0 strongly sheared at 19° over 1-2', followed by 6" of heavily quartz carbonate material with coarse pyrite, some cubic; some Po: Check samples as follows: several quartz pods; spherulitic texture, Py variable in places 3-4%; overall 1-2% -spherulitic texture; Py overall 2% + -shear zone with quartz carbonate and Po, Py up to 8% over several inches. 56.0 9786R 2.0 97.5 9789R 1.5			stringer of Po and Py; weak to moderately magnetic.			,			
60.2 ±106.0 Mafic to intermediate volcanics, andesites, dacites; 54.0 56.0 9786R 2.0 60.2 ±106.0 Mafic to intermediate volcanics, andesites, dacites; Some intervals may be spherulitic lavas, not as coarse grained as in previous holes. Some intervals are biotite rich.' Variable amounts of pyrite scattered throughout, in blebs, specks, or stringers. Moderate to very strongly magnetic. At 94.0 strongly sheared at 19° over 1-2', followed by 6'' of heavily quartz carbonate material with coarse pyrite, some cubic; Some Po: Check samples as follows: several quartz pods; spherulitic texture, Py variable in places 3-4%; overall 1-2% + -shear zone with quartz carbonate and Po, Py up 94.0 95.5 9789R 2.0 40 8% over several inches. 54.0 56.0 9786R 2.0			Bottom contact with next unit at 32°.						
60.2 ±106.0 Mafic to intermediate volcanics, andesites, dacites; Some intervals may be spherulitic lavas, not as coarse grained as in previous holes. Some intervals are biotite rich.' Variable amounts of pyrite scattered throughout, in blebs, specks, or stringers. Moderate to very strongly magnetic. At 94.0 strongly sheared at 19° over 1-2', followed by 6" of heavily quartz carbonate material with coarse pyrite, some cubic; MAPR £1 (358) some Po: Check samples as follows: Several quartz pods; spherulitic texture, Py variable in places 3-4%; overall 1-2% P6.0 78.0 9787R 2.0 -shear zone with quartz carbonate and Po, Py up to 8% over several inches. Several inches. 9789R 1.5			-check sample	54.0	56.0	9786R	2.0	tr	
Some intervals may be spherulitic lavas, not as coarse grained as in previous holes. Some intervals are biotite rich.' Variable amounts of pyrite scattered throughout, in blebs, specks, or stringers. Moderate to very strongly magnetic. At 94.0 strongly sheared at 19° over 1-2', followed by 6" of heavily quartz carbonate material with coarse pyrite, some cubic; some Po: Check samples as follows: several quartz pods; spherulitic texture, Py variable in places 3-4%; overall 1-2% -shear zone with quartz carbonate and Po, Py up to 8% over several inches.76.078.09789R 9789R2.01.5	60.2	±106.0	Mafic to intermediate volcanics, andesites, dacites;						
grained as in previous holes. Some intervals are biotite rich.' Variable amounts of pyrite scattered throughout, in blebs, specks, or stringers. Moderate to very strongly magnetic. At 94.0 strongly sheared at 19° over 1-2', followed by 6" of heavily quartz carbonate material with coarse pyrite, some cubic; some Po: Check samples as follows: several quartz pods; spherulitic texture, Py variable in places 3-4%; overall 1-2% -shear zone with quartz carbonate and Po, Py up76.078.09787R 9789R2.0to 8% over several inches.to 8% over several inches.to 8% over several inches.some intervals are to 8% over several inches.2.0			Some intervals may be spherulitic lavas, not as coarse						
biotite rich.' Variable amounts of pyrite scattered throughout, in blebs, specks, or stringers. Moderate to very strongly magnetic. At 94.0 strongly sheared at 19° over 1-2', followed by 6" of heavily quartz carbonate material with coarse pyrite, some cubic; some Po: Check samples as follows: several quartz pods; spherulitic texture, Py variable in places 3-4%; overall 1-2% -shear zone with quartz carbonate and Po, Py up to 8% over several inches.APR 21 I383 F E C E I V E DAPR 21 I383 P = C E I V E DP = C E I V E Dsome Po: Check samples as follows: several quartz pods; spherulitic texture, Py variable in places 3-4%; overall 1-2% -shear zone with quartz carbonate and Po, Py up76.0P = C E I V E D78.09787R 9787R2.0P = C E I V E D2.02.0Variable in places 3-4%; overall 1-2% 			grained as in previous holes. Some intervals are		0	AMIO GEOLOGIAN	1. SURVEY		
throughout, in blebs, specks, or stringers. ModerateAPR 21 (363)to very strongly magnetic. At 94.0 strongly shearedAPR 21 (363)at 19° over 1-2', followed by 6" of heavily quartzP S C E I V E Dcarbonate material with coarse pyrite, some cubic;P S C E I V E Dsome Po: Check samples as follows:P S C E I V E Dseveral quartz pods; spherulitic texture, Py76.0variable in places 3-4%; overall 1-2%P S C B P S C E I V E D-shear zone with quartz carbonate and Po, Py up94.0to 8% over several inches.9789R			biotite rich. Variable amounts of pyrite scattered		C. and	ASSESSMENT	RLES		
to very strongly magnetic. At 94.0 strongly sheared AT 19° over 1-2', followed by 6" of heavily quartz AT 19° over 1-2', followed by 6" of heavily quartz carbonate material with coarse pyrite, some cubic; Some Po: Check samples as follows: AT 200 AT 200 some Po: Check samples as follows: several quartz pods; spherulitic texture, Py 76.0 78.0 9787R 2.0 variable in places 3-4%; overall 1-2% -spherulitic texture; Py overall 2% + 83.0 85.0 9788R 2.0 to 8% over several inches. to 8% over several inches. Pite 0 1.5			throughout, in blebs, specks, or stringers. Moderate		12 6.9 1 <u>9</u>	2 2 2	<u>ر</u> د		
at 19° over 1-2', followed by 6" of heavily quartz carbonate material with coarse pyrite, some cubic; some Po: Check samples as follows: several quartz pods; spherulitic texture, Py variable in places 3-4%; overall 1-2% -spherulitic texture; Py overall 2% + -shear zone with quartz carbonate and Po, Py up 94.076.0R < C < I < D			to very strongly magnetic. At 94.0 strongly sheared		it it	Bra 3	G C		
<pre>carbonate material with coarse pyrite, some cubic; some Po: Check samples as follows: several quartz pods; spherulitic texture, Py 76.0 78.0 9787R 2.0 variable in places 3-4%; overall 1-2% -spherulitic texture; Py overall 2% + 83.0 85.0 9788R 2.0 to 8% over several inches.</pre>			at 19° over 1-2', followed by 6" of heavily quartz		ander and and	ນ ຄ ວ ກ <			
Some Po: Check samples as follows:76.078.09787R2.0several quartz pods; spherulitic texture, Py76.078.09787R2.0variable in places 3-4%; overall 1-2%-spherulitic texture; Py overall 2% +83.085.09788R2.0-shear zone with quartz carbonate and Po, Py up94.095.59789R1.5to 8% over several inches.10.010.010.010.0			carbonate material with coarse pyrite, some cubic;		ſ	and the second			
several quartz pods; spherulitic texture, Py 76.0 78.0 9787R 2.0 variable in places 3-4%; overall 1-2% - -spherulitic texture; Py overall 2% + 83.0 85.0 9788R 2.0 -shear zone with quartz carbonate and Po, Py up 94.0 95.5 9789R 1.5 to 8% over several inches.			some Po: Check samples as follows:						
<pre>variable in places 3-4%; overall 1-2% -spherulitic texture; Py overall 2% + -shear zone with quartz carbonate and Po, Py up 94.0 95.5 9789R 1.5 to 8% over several inches.</pre>		<u> </u>	several quartz pods; spherulitic texture, Py	76.0	78.0	9787R	2.0	tr	
-spherulitic texture; Py overall 2% + 83.0 85.0 9788R 2.0 -shear zone with quartz carbonate and Po, Py up 94.0 95.5 9789R 1.5 to 8% over several inches.			variable in places 3-4%; overall 1-2%						
-shear zone with quartz carbonate and Po, Py up 94.0 95.5 9789R 1.5 to 8% over several inches.			-spherulitic texture; Py overall 2% +	83.0	85.0	9788R	2.0	tr	
to 8% over several inches.			-shear zone with quartz carbonate and Po, Py up	94.0	95.5	9789R	1.5	tr	
			to 8% over several inches.		· ····				

				-				187.4				±162.0		<u></u>										±106.0	<u></u>			con't	f rom	MIST
								234.0				187.4	• .											162.0				±106.0	to	ANGO
· ·	-as above, odd Py	-contorted/convoluted; odd carbonate	to veinlets 1-2 mm wide; as indicated below in samples	only very minor quartz veining; generally restricted	vein and veinlet; odd speck of Py plus odd stringer;	convoluted "flow banded" material with odd carbonate	preceeding unit; followed by 3.5' of heavily contortec	Fine grained granodiorite; first 4' transitional from	interval not distinct; bottom contact in at 65°.	fine grained magnetite. Top contact with preceeding	Andesites strongly magnetic, in places with up to 6%	Heavily Carbonatized Mafic Volcancis;	$-Py \pm 2\%$; foliation at 35°	-sheared over 3" at 127.6 Py 2%	-epidotized, quartz carbonate; Py, Po	1%. Check samples as follows:	over Po, in places up to 2%, but overall less than	At 117.0 1½" quartz vein at 34°; mineralization Py	108.3 with quartz carbonate over 2"; 111.1 and 152.0.	magnetic, Epidotization well developed near 106.2,	all merging form one into another. Generally strongly	interval contains a mix of gabbros and mafic volcanic	ure; no sharp contacts but all gradational. This	Near 106.0, rocks tend to become "gabbroic" in text-	Ру	-interval with several 3-5 mm quartz veins, odd	Epidotization over 2" at 105.7.	-biotite rich, moderately foliated Py 1-2%	FORMETION	CONSOLIDATED RESOURCES LTD.
	190.0	187.4											133.0	127.5	108.0											102.0		95.5	FROM	I
_	193.0	190.0											125.0	129.5	109.0								_			103.5		98.0	TO	OLE NO.
ion	9796R	9795R				<u></u> .							9794R	9793R	9792R											9791R		9790R	SAMPLE NO.	M-87-6
Oulex en	3.0	2.6										<u> </u>	2.0	2.0	1.0											1.5		2.5	WIDTH	PAG
foration Nd.	tr	tr										<u>.</u>	tr	tr	tr				<u> </u>							tr		tr	GOLD oz/ton	E NO.
								. <u></u>																					AVERAGE	

	MISTANGO CONSOLIDAT	
	URCES L	
	10.	
	H	_
-	OLE NO.	
	M-87-6	
-		
	PAGE NO.	400 Harrison
	kω	

			261.0	254.3		242.8			234.0												con't	FOOTA from
			293.0	261.0		254.3			242.8												234.0	GE to
	END OF HOLE	May contain sedimentary intervals-tuffaceous?- from 278.0 to 289.0. (bedded)	Mafic Volcanics;	Mafic, contorted, convoluted volcanics; carbonatized minor silicification near 259.6 over 2"; virtually	chloritized.	Spherulitic Lavas; Variable; some intervals heavily carbonatized and	vein at 242.5.	Light green-grey; 3" quartz carbonate tourmaline	Intermediate Tuffs;	-check sample; at 233.0 minor hematite staining	234.0.	tuffs for about one footmore granodiorite until	At 230.3 granodiorite grades into banded intermediate	-check sample, odd speck of Py	-check sample only; no Py	-2" quartz and Py rich shear	-foliated, odd carbonates	-granodiorite; several quartz veinlets, odd Py	-granodiorite; magnetic; odd speck Py	-odd "streaks" of Py less than or equal to 1%	-minor convolutions; odd Py	FORMATION
e 			<u> </u>							228.0				221.0	205.4	204.4	203.0	201.0	199.0	196.0	193.0	FROM
		<u> </u>								230.4				223.0	207.4	205.4	204.4	203.0	201.0	199.0	196.0	10
no										0262				0261	0260	0259	0258	9800R	9799R	9798R	9797R	SAMPLE NO.
OILLOX es								- <u></u>		2.4				2.0	2.0	1.0	1.4	2.0	3.0	3.0	3.0	WIDTH
vioration Itd										tr			_,	tr	tr	tr	tr	tr	tr	tr	tr	GOLD oz/ton
																						AVERAGE

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-									±102.6 124.3				88.2 ±102.6		±79.0 88.2				±55.1 ±79.0			43.0 ±55.1		9.0 43.0	0 9.0	FROM TO	FOOTAGE	LOGGED BY Langelaar	DRILLED BY Ed Fontaine	PROPERTY Mistango	-
-	equal to 1%	-odd quartz veinlet of 2 mm; Py less than or	-odd stringlet of Py	silicification; following are check samples only:	br alteration except for 1' near 120.0' with strong	consisting of VEINLETS of 2-3 mm wide. NO "bleaching"	bdd speck of Py here and there; minor quartz veining	Fine grained; moderately to strongly magnetic; only	Granodiorite;	2" quartz veins respectively. Core angles at 48°.	gradational. At 94.0 and at 95.0 quartz patches and	Siliceous; sharp top contact but bottom contact	Intermediate Felsic Tuff;	Core angles at 43° at 79.5 strongly magnetic.	Variable Mafic Tuffs;	or a gabbro porphyry; bottom contact gradational.	a "hornblende porphyry" (?) with phenocryst up to 4 mm	Medium to coarse grained; very coarse after 62.0;	Gabbro;	few quartz-carbonate stringers; weakly magnetic.	Becomes very biotite rich during last 2.4'. Contains	Mafic Volcanics;	Medium to fine grained; moderately to strongly magnetic	Gabbro;	Casing	F URMAI J UN	F 0000011100	DAY COMPL. Oct 23, ±987 NTS	Drilling DAY STARTED Oct 18. 1987 ANGLE -45°	CLAIM NO. 74 645083 BEARING 320°	MISTANGO CONSOLIDATED RESOURCES
		114.0	112.0										_	ſ	6. <u></u>		- 14-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	: Justice								ROM					
~~		116.	114.												7			AGO	Chinany							10		LEV.	1EP.34+	AT. 7+	
		0 1264	0 0263											C m I V E D		1983 1983 1983 1983	CHAICE		and a second and a s							SAMPLE NO.		P	00 W 00	65 S . H	
noron		2.0	2.0	. <u> </u>									[<u></u>		4	WIDTH		AGE NO.	DTAL DEP	DLE NO.	
2X exploration Nd		tr	tr																							oz/ton AVERAGE	GOLD		TH 213.01	M-87-7	

MIS	TANGO	CONSOLIDATED RESOURCES LTD.	Ŧ	IOLE NO.	M-87-7	PAGE	NO. 2	
from	AGE	FORMATION	FROM	T 0	SAMPLE NO.	WIDTH	GOLD oz/ton	AVERAGE
con't	124.3	-strong silicification, no distinct quartz vein	119.0	121.0	0265	2.0	tr	
		odd speck of pyrite						
		Bottom contact not sharp.						
124.3	183.0	Variable Mafic Volcanics;						
		Mix of tuffs, contorted and convoluted material,						
		spherulitic lavas etc. etc. In most cases impossible						
		to pin point contacts. May even contain minor sed.						
		beds. Overall mineralization considerably less than						
		1% Py; variability in magnetics; some more magnetic,						
		others strongly magnetic; Odd quartz and quartz-						
		carbonate veining present; Check sample:						
		-1" band of Py at 5% in spherulites	165.0	167.0	0266	2.0	tr	
183.0	213.0	Granodiorite;						
		Between 193.0 and 201.0 highly siliceous sections -						
		well bleached; quartz vein development rather sparse;	_					
		minor pink (hematite) staining near 198.0. Overall						
	•••	pyrite less than or equal to 1%, some coarse and						
		cubic Py; see individual samples:						
		-odd veinlet; Py much less than 1%; no bleaching	183.0	186.0	0267	3.0	tr	
		-few quartz carbonate veinlets; ½" quartz vein	186.0	188.0	0268	2.0	tr	
		at 186.0; Py less than 1%				<u> </u>		
		-no quartz veins/veinlets, virtually no pyrite	188.0	191.0	0269	3.0	tr	
		-as above, odd speck pyrite	191.0	193.0	0270	2.0	tr	
		-well silicified, several quartz veinlets, one	193.0	195.0	0271	2.0	tr	
		½" vein "well bleached"; Pyrite 1-2%						
. <u>-</u>		-strong silicification in first half foot; Py in	195.0	197.0	0272	2.0	tr	
		disseminations and odd bleb, one ¼" quartz vein						
			-1-3,12,					- <u></u> -
					nor	OIUCX expt	vation Itd.	

-								con't	from footA	SIW
								213.0	to	TANGO C
	END OF HOLE no diptests	-unaltered granodiorite	-unaltered granodiorite; no veins or veinlets; sharp contact of altered/unaltered material at	-altered and bleached, several 1-2 mm quartz veins; odd speck pyrite	veinlet, minor bleaching, slight increase in pyrite, overall 1-2% (best silicification at 204.5 over 5")	-very weakly altered, odd veinlet, odd pyrite -weakly to moderately altered granodiorite; odd	-well silicified-altered interval; several ¼-½" quartz veins; some coarse blebby; Py overall 2%	-well silicified, well altered pink staining, coarse Py; 1" quartz vein near 199.0; overall pyrite 1-2%	FORMATION	CONSOLIDATED RESOURCES LTD.
		209.0	206.5	205.0	<u> </u>	201.0 203.0	199.0	197.0	FROM	
		213.0	209.0	206.5		203.0 205.0	201.0	199.0	10	OLE NO.
E C		0279	0278	0277		0275 0276	0274	0273	SAMPLE NO.	M-87-7
		4.0	2.5	-1.5		2.0	2.0	2.0	WIDTH	PAG
Norai on Nd		tr	tr	tr		tr tr	tr	tr	GOLD	E NO. 3
·									AVERAGE	

exploration Nd	2.1	0-294	52.3	50.2	-sample	<u></u> _	
			. <u> </u>		pyrite		
tr	1.9	0-293	50.2	48.3	-strong potassic alteration zone with 10% coarse		
tr	1.5	0-292	48.3	46.8	-1" quartz vein, 1" pink alteration zone		
tr	2.6	0-291	46.8	44.2	-sample		
tr	1.8	0-290	44.2	42.4	-medium green hue; partially assimilated xenolith		
t r	2.4	0-289	42.4	40.0	I =		
tr	3.0	0-288	40.0	37.0	1 =		
tr	3.0	0-287	37.0	34.0	1 =		
tr	3.0	0-286	34.0	31.0	I =		
tr	3.0	0-285	31.0	28.0			
tr	3.0	0-284	28.0	25.0	1 =		
tr.	3.0	0-283	25.0	22.0	-sample .		
tr	1.0	0-282	22.0	21.0	-quartz vein		
tr	3.0	0-281	21.0	18.0	1 =		
tr	2.2	0~280	18.0	15.8	-sample		
					minor sections weakly carbonatized.		
					weakly foliated 60° to core axis; weakly magnetic,		
	8°C. 3807.2.		IJ		probably due to assimilation of mafic xenoliths;		
	<u> </u>	APR 21 196			Medium grey, with occasional sections with green hue,		
			<u>*</u>		Granodiorite;	66.5	15.8
	I mo	SSESSMENT F			to core axis.		
	N REGEN	WO SPOTONO ON			Medium green, fine to medium grained; foliated 55°		
,			'		Mafic Tuff;	15.8	10.8
. <u></u>		:			Casing/Overburden	10.8	0
oz/ton AVERAGE	WIDTH	SAMPLE NO.	10	FROM	r OKMA I JON	10	FROM
GOLD						AGE	F001
	AGE NO.	P/	ELEV.		DAY COMPL. Nov 2, 1987 NTS	L. Jones	LOGGED BY
335.01	DTAL DEPTH	0 W TC)EP. <u>36+0</u>		e Drilling DAY STARTED Oct 28, 1987 ANGLE -50°	Ed Fontaine	DRILLED BY
-87-8)LE NO. M.	O S HO	AT. 1+7)°	CLAIM NO. 2 639106 BEARING 320	istango	PROPERTY_M
			Ÿ		MISTANGO CONSOLIDATED RESOURCES	-	
				_			

			-		183.1								129.5						66.5									con't	from	FOOTA	MIS
•					187.7								183.1						129.5									66.5	to	GF	TANGO
	-check sample	crysts.	quartz phenocrysts and 10-20% 1-5 mm feldspar pheno-	park grey, fine grained matrix with 10 to 20% 1-3 mm	Quartz-Feldspar Porphyry;	1 = =		ו ב ג	-check sample	weakly magnetized; overall unit is homogeneous	65° to core axis; weak, pervasive carbonatization	Medium grey, fine to medium grained; weakly foliated	Granodiorite;	-two carbonate veins (1" and 2") trace pyrite	clots common, possibly relict amygdales.	core axis, parallel to foliation; %" to 1 cm carbonate	fine grained carbonate stringers common at 60-70° to	Possible a sheared amygdaloidal flow; medium green,	Mafic Tuff (?);	-granodiorite - mafic volcanic hybrid 🤟	-weakly brecciated, 1" potassic alteration zone	ation, trace pyrite	-several quartz veins %" to 1"; potassic alter-	-½" and 1" quartz veins	-1" moderate alteration, 1% pryite	potassic alteration halos and pyrite associated	-3" quartz vein, three ½" veins, all with	Granodiorite (con't);	FURMATION		CONSOLIDATED RESOURCES LTD.
	183.1					180.1	169.0	149.0	129.5					103.5	<u></u>					64.0	61.0		59.0	57.0	54.7		52.3		FROM		-
_	185 . 8					183.1	172.0	152.0	132.0					105.5						66.5	64.0		61.0	59.0	57.0		54.7		10		OLE NO.
nor	1956P					1955P	1954P	1953P	1952P					1951P						0-300	0-299		0-298	0-297	0-296		0-295		SAMPLE NO.		M-87-8
<u>Onlex</u>	2.7					3.0	3.0	3.0	2.5				<u></u>	2.0						2.5	3.0		2.0	2.0	2.3		2.4		WIDTH		PAC
ploration Itd	tr					tr	tr	tr	tr					tr						tr	tr		tr	tr	tr		tr		oz/ton	1 G0LD 1	SE NO. 2
																													AVERAGE		

			of	gen	Med	275.0 335.0 And						mag	wel	Med	187.7 275.0 Maf	from to	MISTANGO CO
END OF HOLE	-4" quartz vein 60° to core axis	-1" quartz vein at low angle to core axis	pyrite.	erally well carbonatized infrequent 5 mm patches	ium green-grey, fine to medium grained, massive	lesitic Flows;	-three ¼" pyrite stringers	-2-3% disseminated pyrite	-1-2% disseminated pyrite	-several 1" quartz-carbonate veins, trace pyrite	-0.5' quartz-carbonate vein; trace pyrite	netic, well carbonatized.	l foliated 65-55° to core axis; moderately	ium green-grey, fine to medium grained, generally	ic Tuff;	FORMATION	NSOLIDATED RESOURCES LTD.
	296.8	294.6					232.8	223.5	221.0	218.2	208.5					FROM	
 <u></u>	298.7	296.8					234.4	225.3	223.5	221.0	210.0					10	HOLE NO
	1963	1962P					1961P	1960P	1959P	1958P	1957P					SAMPLE NO.	. <u>M-8/-8</u>
	1.9	2.2					1.6	1.8	2.5	2.8	1.5					WIDTH	111 PA
	tr	tr					tr	tr	tr	tr	tr					oz/ton	GE NO. 3
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ype of Work Performed								
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I hereby certify that I have a	perional and intimate kr	nowledge of th	he facts set f	orth in the Report	of Work annex	ed here ,	having performed th	e work
a w-tressed same during and	for after its completion a	and the annex	ed report is	true.	<u> </u>		<u> </u>	
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FIRE ASSAYING LTD. **BOX 253** COCHENOUR, ONTARIO POV 1LO

OM FIRE ASSAYING LTD.

Phone: Bus. (807) 662-817 Res. (807) 662-336

AUL OKANSKI, Assayer Cochenour, Ontario POV 1L0

\SSAY CERTIFICATE

July 3, 1987. Date:



155 samples are MISTANGO'S; for results see drill logs. CUSTOM FIRE ASSAVING LTD. COCHENOUR, ONTARIO POV 110 Date C) ACC'T. FWD. ON ACC'T SOLD BY $\mathcal{O}\mathcal{O}$ RECU i'A app . MAL hal 16 REDIFORM - 58523E

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Ontario			Min	ing Act		of Work (Expenditu	Geological, (ures)''.	Geophysical, Ge	ochémical an
Name ar stal Address of f	Recorded Holder	r					Prospector	's Licence No.	
CAMRECO INC. 12	20 Adelaid	le Street we	<u>est, 11t</u>	<u>h Floor</u>	· 			3	
Toronto - Ontari	io M5H 1	V1							
ummary of Work Perforn	nance and Dist	tribution of Cre	dits				·		
Fotal Work Days Cr. claimed	Prefix	lining Claim Number	Work Days Cr.	Min	ing Claim Number	Work Days Cr.	Min Prefix	ning Claim Number	Work
28U Gays	ving D	072201	/40						
vork. (Check one only)	- F	072202							
Manual Work		972293	40				图 如料		
Shaft Sinking Drifting of other Lateral Work.	or	972286	40	-					
Compressed Air, other	State of the state	972287	40						
mechanical equip.		972249	40						
Power Stripping		972248	40				A MAR		
Diamond or other Core drilling		972247							
Land Survey		(h		\$ <u>255</u>				١	
	an Mining Claim	(a):	,		<u> </u>				
		K 645	74.6450	75,6391	05 and 63	9106	LAVAL I	IOWNSHIP!	· · · · · · · · · · · · · · · · · · ·
equired Information eg:	type of equip	oment, Names, A	Addresses, e	tc. (See T	able Below)	······			
a BALANCE OF 16 DRILL LOGS SUBMI "Mistango Consol	53 DAYS (F ITTED IN R	EET) still EET) still EPORT BY La	the bal unused. angelaar nited. 1	ance of , dated 987 Exp	443 days March 9,	credit 1988, en	, thus l ntitled	leaving	
a BALANCE OF 16 DRILL LOGS SUBMI "Mistango Consol Diamond drilling coresize B.Q. C	53 DAYS (F ITTED IN R lidated Re performe Core store	EET) still EPORT BY La sources Lin d by ED FOM d at Camrec	the bal unused. angelaar nited, 1 NTAINE D co Mine	ance of , dated 987 Exp IAMOND site.	443 days March 9, loration DRILLING	credit 1988, en programn LTD. KEN	, thus l ntitled ne, Marc NORA Ont	leaving ch 1988" cario.	
a BALANCE OF 16 DRILL LOGS SUBMI "Mistango Consol Diamond drilling coresize B.Q. C	53 DAYS (F ITTED IN R lidated Re g performe Core store	EET) still EPORT BY La sources Lin d by ED FON d at Camrec	the bal unused. angelaar nited, 1 NTAINE D CO Mine	ance of , dated 987 Exp IAMOND site.	443 days March 9, loration DRILLING	credit 1988, en programm LTD. KEN	thus l ntitled ne, Marc NORA Ont	leaving ch 1988" cario.	(Signature)
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a BALANCE OF 16 DRILL LOGS SUBMI "Mistango Consol Diamond drilling coresize B.Q. C	DAYS (F DAYS (F ITTED IN R lidated Re performe Core store	portion of EET) still EEPORT BY La sources Lin d by ED FON d at Camred	the bal unused. angelaar nited, 1 NTAINE D to Mine	ance of , dated 987 Exp IAMOND site.	443 days March 9, loration DRILLING DRILLING March 9,1	credit 1988, er programm LTD. KEN 988 Work annexe	thus 1 ntitled ne, Marc NORA Ont	teaving th 1988" cario.	(Signature)
a BALANCE OF 16 DRILL LOGS SUBMI "Mistango Consol Diamond drilling coresize B.Q. C hereby certify that I have or witnessed same during an lame and Postal Address of P	DAYS (F DAYS (F ITTED IN R lidated Re performe Core store Core store	portion of EET) still EPORT BY La sources Lin d by ED FON d at Camred	the bal unused. angelaar nited, 1 NTAINE D CO Mine	ance of , dated 987 Exp IAMOND site.	443 days March 9, loration DRILLING DRILLING March 9,1	credit 1988, er programm LTD. KEN 988 Work annexe	thus 1 ntitled me, Marc NORA Ont	teaving th 1988" cario.	(Signature)
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a BALANCE OF 16 DRILL LOGS SUBMI "Mistango Consol Diamond drilling coresize B.Q. () hereby certify that I have or witnessed same during an lame and Postal Address of P J.Langelaar, Nor Dryden - ont. ph able of Information/Atta	DAYS (F DAYS (F))))))))))))))))))))))))))))))))))))	EET) still EEPORT BY La sources Lin d by ED FON d at Camred at Camred intimate knowledge ompletion and the loration Lt -5085	the bal unused. angelaar nited, 1 NTAINE D to Mine e of the fact annexed rep td. RR	ance of , dated 987 Exp IAMOND site. site. N°1, bo ler	443 days March 9, loration DRILLING DRILLING March 9,1 the Report of x 7, site ate Certified March 9,1	credit 1988, er programm LTD. KER 988 Work annexe 11 988	thus 1 ntitled me, Marc NORA Ont	leaving ch 1988" cario.	(Signature)
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a BALANCE OF 16 DRILL LOGS SUBMI "Mistango Consol Diamond drilling coresize B.Q. () hereby certify that I have or witnessed same during an lame and Postal Address of P J.Langelaar, Nor Dryden – ont. ph able of Information/Atta Type of Work	DAYS (F DAYS (F)))) (F DAYS (F))) (F DAYS (F))) (F DAYS (F))) (F DAYS (F))) (F DAYS (F))) (F DAYS (F))) (F)) (F)) (F)) (F)) (F)) (F)) (F)	portion of EET) still EEPORT BY La sources Lin d by ED FON d at Camred at Camred intimate knowledge ompletion and the loration Lt -5085 uired by the Min	the bal unused. angelaar nited, 1 NTAINE D to Mine to Mine d. RR	ance of , dated 987 Exp IAMOND site. site. N°1, bo ler Other	443 days March 9, loration DRILLING DRILLING March 9,1 the Report of x 7. site ate Certified March 9,1	credit 1988, er programm LTD. KER 988 Work annexe 11 988	thus 1 ntitled me, Marc NORA Ont Recorded F	teaving the 1988" tario.	(Signature)
a BALANCE OF 16 DRILL LOGS SUBMI "Mistango Consol Diamond drilling coresize B.Q. C interest and Postal Address of P J.Langelaar, Nor Dryden – ont. ph able of Information/Atta Type of Work Manual Work Shaft Sinking, Drifting or other Lateral Work	Derforme Core store	portion of EET) still EEPORT BY La sources Lin d by ED FON d at Camred at Camred intimate knowledge ompletion and the loration Lt -5085 uired by the Min ific information p	the bal unused. angelaar nited, 1 NTAINE D to Mine to Mine annexed rep to RR	ance of , dated 987 Exp IAMOND site. s set forth in ort is true. N°1, bo ler Other Nam	443 days March 9, loration DRILLING DRILLING March 9,1 the Report of <u>x 7, site</u> ate Certified March 9,1 information (C	credit 1988, er programm LTD. KEN 988 Work annexe 11 988 ommon to 2	thus 1 ntitled me, Marc NORA Ont Recorder F ad Pero certilector or more typ	teaving th 1988" tario.	(Signature)
a BALANCE OF 16 DRILL LOGS SUBMI "Mistango Consol Diamond drilling coresize B.Q. C interfection Verifying Rep Interby certify that I have or witnessed same during an lame and Postal Address of P J.Langelaar, Nor Dryden – ont. ph able of Information/Atta Type of Work Manual Work Shaft Sinking, Drifting or other Lateral Work	Derforme Core store port of Work a personal and ind/or after its co port 2 Spec contex exp contex exp contex exp contex Require Type of equire	portion of EET) still EPORT BY La sources Lin d by ED FON d at Camred intimate knowledge ompletion and the loration Lt -5085 uired by the Min sific information p Nil	the bal unused. angelaar nited, 1 NTAINE D to Mine ge of the fact annexed rep td. RR	ance of , dated 987 Exp IAMOND site. s set forth in ort is true. N°1, bo ler Other Nam man with	443 days March 9, loration DRILLING DRILLING March 9,1 the Report of <u>x 7, site</u> ate Certified March 9,1 information (C es and addressed ual work/operatidates and hourd	credit 1988, er programm LTD. KER 988 Work annexe 11 988 ommon to 2 s of men who ted equipments s of employm	thus I ntitled me, Marc NORA Ont Recorded F Recorded F Certified p Certified p or more typ	ch 1988" ch 1988" cario.	(Signature) I the work I the work chments etch: these red to show ion and f work in to the
a BALANCE OF 16 DRILL LOGS SUBMI "Mistango Consol Diamond drilling coresize B.Q. C interfiction Verifying Rep I hereby certify that I have or witnessed same during an Name and Postal Address of P J.Langelaar, Nor Dryden – ont. ph able of Information/Atta Type of Work Shaft Sinking, Drifting or other Lateral Work Compressed air, other power driven or mechanical equip. Power Stripping	Derforme Core store port of Work performe Core store port of Work a personal and ind/or after its co person Certifying contex exp i: 807-937 achments Require Note: Proof court vithin 30 day	portion of EET) still EPORT BY La sources Lin d by ED FON d at Camred intimate knowledg ompletion and the loration Lt -5085 uired by the Min sific information p Nil oment	the bal unused. angelaar nited, 1 NTAINE D to Mine te of the fact annexed rep td. RR	ance of , dated 987 Exp IAMOND site. s set forth in ort is true. N°1, bo ler Other Nam man with d Nam	443 days March 9, loration DRILLING DRILLING March 9,1 the Report of X 7. site ate Certified March 9,1 information (C es and addresses uel work/operation dates and hourd	credit 1988, er programm LTD. KER 988 Work annexe 11 988 ommon to 2 s of men who ted equipment s of employn s of owner on when drilling	thus I ntitled me, Marc NORA Ont Recorded Recorded Certified or more typ operformed nt, together ment.	ch 1988" ch 1988" cario.	(Signature) A the work the work chments etch: these red to show ion and f work in to the laim post.

Ontario Ministry of Northern Developme and Mines	Rep ^{ant} of V	oort Vork <u>KEN</u>	NORA.	ning Act	Instructions - _	 Supply retive of type of the second se	equired dat work to be technical we (Geological, ures)''.	a on a separate e recorded (see ork use form no. Geophysical, Geo	form for each table below) 1362 "Repor ochemical and
Name Postal Address of Re	corded Holde	ər					Prospecto	r's Licence No.	
MISIANGO CONS. R	ES.LTD t	ransferred	to CAMR	ECO I	NC		T 48	53	
120 Adelaide Str	eet West	, 11th Floo	r, Toro	nto -	Ontario M5H	<u>11V1 p</u>	oh: 416-	-364-6395	
Summary of Work Performa	ince and Dis	Aining Claim	dits		Mining Claim	Mork	T	lining Claim	Mark
	Prefix	Number	Days Cr.	Prefix	Number	Days Cr.	Prefix	Number	Days Cr.
for Performance of the followin work. (Check one only)	19 K	639047	89	К	639059	89	К	639106	89
Manual Work		639048	89		639060	89	Sec. Sec.	639107	89
Shaft Sinking Drifting or		639051	89		639061	89		639108	89
Compressed Air, other Power driven or		639052	89	Provinský hy Provinský hy	639066	89		639111	89
mechanical equip.		639055	89		639067	89		639112	89
Power Stripping		639056	89	a	639108	89	30.15 .0 .	639113	89
Diamond or other Core* drilling	*	639057	89		639104	89		639121	89
Land Survey	10 855.7. d.	639058	89		639105	89			
All the work was performed on	Mining Claim	n(s): K645074	,645075	,63910	05 & 639106				
Required Information eg: t	ype of equi	pment, Names, A	ddresses, e	etc. (Se	e Table Below)			· · · · · · · · · · · · · · · · · · ·	
Diamond drill hole	es M87-1	to M87-8 i	ncl.; t	otal 1	footage 2490	feet			
Diamond drilling	performe	d by ED FON	TAINE D	I AMONI	D DRILLING L	TD.			
		Kenora	- Onta	rio ;	core size B	.Q. Cor	e store	ed at Camro	eco
DRULLOGS SUBMIT	TED IN R	FPORT BY J		AR da	ated March 9	1988	entitle	Mine : Pd	site!
"Mistango Consoli	datod Po	sources lim	itod 1	007 EV	coloration P	noonamm	o Marc	-6 1088"	
Mistaligo consorri	Jaleu Ke	Sources Lim	iteu, i	507 L7		rugramm	ie, mai (.11 1900	
TOTAL CREDITS USE	D FOR AB	OVE CLAIMS	= 2047!	BALA	ANCE OF 443	days to	be app	olied elsew	where!
							• •		
					Date of Report		Recorded	Holder or Agent (Signature)
Certification Verifying Repo	rt of Work	··			March 9, 1	988	4	mmai	Mi
I hereby certify that I have a	personal and i	intimate knowledge	e of the fact	s set forti	n in the Report of V	Vork annexe	a negeto, b	wing performed	the work
or witnessed same during and Name and Postal Address of Pers	on Certifying	ompletion and the 	annexed rep	urt is tru	0. 		++		
J.Langelaar, Noron	ntex Exp	loration Lto	d. RR N	° 1, b	ox 7,site 1	1, <u>3 Be</u>	dworth	Road	
Drvden - Ontario	PH: 807	-937-5085			Date Certified	988		y (Signature)	r _
Table of Information/Attach	ments Requ	uired by the Mini	ing Record	er					
Type of Work	Spec	ific information pe	r type	Otl	ner information (Co	mmon to 2	or more typ	Des) Attach	iments
Manual Work						-	J]
Shaft Sinking, Drifting or other Lateral Work		Nil		Na	ames and addresses anual work/operate	of men who id equipmen	performed	Work Sket are require	ch: these id to show
Compressed air, other power driven or mechanical equip.	Type of equip	oment		wi	th dates and hours	ot employm	ient.	the location extent of a relation to	on and work in the
Power Stripping	Type of equip Note: Proof o within 30 day	oment and amount of actual cost must is of recording.	expended. be submitte		ames and addresses gether with dates w	of owner or hen drilling/	operator /stripping		
Diamond or other core	Signed core lo	og showing; footage	, diameter o	of do	n e.			Work Sket above) in (ch (as Juplicate



Natural (Geo	ophysical, Geological, chemical and Expend	itures)	<u>NA</u> ,		– Note: –	If numbe exceeds s Only da "Expende	r of mining cl pace on this form ys credits calc tures' section n	aims travers m, attach a li ulated in t nay be enter
			Mining	Act	-	in the " Do not us	Expend, Days e shaded areas be	Cr." colume
Type of Survey(s)					Township	or Area	M2270	
GROUND GEOPHYSI(CAL - VLF & MAG	GNETOMET	ER	· · · · · · · · · · · · · · · · · · ·		Prospecto	r's Licence No.	
CAMRECO INC. 120	Adelaide Street	west,	11th Flo	or, Toronto		T 4	853	
Ont	ario M5H 1V1	ph: 416-	364-6395	Date of Survey	(from & to)			ine Cut
Norontex Explorati	on Ltd. of Geo-Technical report)			(001↓v №76.	87. 04v	Me0 ; 87.	25 line	e miles
R.R.#1, box 7, sit	e 11 , 3 Bedwo	rth Road	– Dryde	<u>en - Ontari</u>	<u>o P8N 2</u>	<u>2</u> Y4		
Credits Requested per Each (Special Provisions	Claim in Columns at r	Days per	Mining Cla	aims Traversed (ning Claim	List in nume	erical sequ	ence) Aining Claim	Expend
For first sorvey	Geophysical	Claim	Prefix	Number	Days Cr.	Pretix	Number	Days C
Enter 40 days, (This includes line cutting)	- Electromagnetic	40	K	972288				
	 Magnetometer 	20		972283			4 4 1-1	
For each additional survey: using the same grid: Enter 20 days (for each)	Radiometric			972236				
	- Other			972284				
	Geological			972250				
	Geochemical			972246			, ,	
Mari Days	Geophysical	Days per Claim		072231				
Complete reverse side and enter total(s) here	- Electromagnetic			070005				
	- Magnetometer			9/2235	+			
	Badia matria		+	9/2245	+			
	· Hadiometric			972280				
	- Other			972281				
	Geological		-	972244				
	Geochemical			972237				
Airborne Credits	1	Days per Claim		9722 43				
Note: Special provisions	Electromagnetic			972282				
to Airborne Surveys.	Magnetometer			472242				
	Radiometric			07000		}		
Expenditures (excludes pow	er stripping)			91.22.30				
Type of Work Performed			-	9/2239			}- · · · - · · - · · · · · · · · · · · ·	
Performed on Claim(s)				972240				
				972241				
								
Calculation of Expenditure Day	s Credits	Total						
Total Expenditures	Day	s Credits						
\$	15 =					Total nur claims co	mber of mining	00
nstructions		older's				report of	work.	20
choice. Enter number of days	s crecits per claim selection	ed	Total Dave	For Office Use (Cr. Date Recorded	Dnly	Mining B	ecorder	
	-\ <u>+</u>		Recorded					
Date Rec March 9,1988	corden Holder or Agent (Signature)		Date Approved	as Recorded	Branch D	rector	
Dertification Verifying Repo	nerconating to the second	nowledge of *	he facts cot fo	with in the Report	of Work anna		having performs	d the work
or witnessed same during and	for after its completion	and the anne:	xed report is t	rue.	or work anne:		naving performe	
Name and Postal Address of Per	son Certifying					11		


Ministry of Northern Develope and Mines	Report ^{ment} of Work <u>KENOF</u>	<u>A</u>	Instructions –	Supply re type of v For Geo-to of Work (0 Expenditu	quired data on vork to be reco echnical work us Geological, Geop res)''.	a separate forr orded (see tab e form no. 136 hysical, Geoch	n for each le below). 2 ''Report emical and
Name and stal Address of	Recorded Holder	Mining Ac	t		Prospector's Lic	ence No.	
CAMR, JO INC.					Т 1853		
120 Adelaide St	reet west, 11th Floor	r Toronto -	Ontario				
Summary of Work Perform	mance and Distribution of Crec	lits	······	<u> </u>		····	
Total Work Days Cr. claimed	Mining Claim Profix Number	Work	Mining Claim	Work	Mining	Claim	Work Days Cr
210 days for Performance of the follow	wing K 972250	30	Number	04/3 01.		NUTIDE	5475 01.
Manual Work	972246	30					
Shaft Sinking Drifting	or 972245	30		121 CI1237			
Compressed Air, other	972244	30	ASSESSMEN	FILES			
mechanical equip.	972235	30	CFFICE	-			·
Power Stripping	972236	30	APR 21	988			
Diamond or other Core drilling	972237	30					
Land Survey		50	RECEIN	ED			
All the work was performed	on Mining Claim(s): 1645	075 K64.	5674 63910	586	39106		
Required Information eg:	type of equipment, Names, A	ddresses, etc. (Se	e Table Below)				
DRILL CREDITES BULLDOZING CRED Drill logs subm DRILLING BY ED core size B.Q.; Bulldozing by H <u>Certification Verifying Re</u>	REMAINING DITS REMAINING nitted in report by L FONTAINE DIAMOND DRI ; core stored at Camr Hutchinson Contractor	Tot angelaar: "M 19 LLING LTD - eco Mine sit s, Dryden		eet = d days: 7 olidate on Prog	ays ays = 30 days d resource ramme, Marc	s each. es Limite ch 1988"	d, gnature)
I hereby certify that I have	a personal and intimate knowledge	e of the facts set for	th in the Report of W	ork annexe	d here beving	performed the	work
Name and Postal Address of F	Person Certifying						
J.Langelaar. No	prontex exploration 1	t.d.			/		
3 Bedworth Road	I - Dryden - O nt. RRN	°1, box 7. s	Date Certified ite 11 March	9.198	Certified by (Sig	nature)	
Table of Information/Atta	achments Required by the Min	ing Recorder	.			- Min	<u>~</u>
Type of Work	Specific information pe	ar type O	ther information (Co	nmon to 2	or more types)	Attachm	ents
Manual Work	1			·· ·· · · · · · · · · ·			
Shaft Sinking, Drifting or other Lateral Work	Nil		Names and addresses (nanual work/operate with dates and hours (of men who d equipmen	performed at, together aent.	Work Sketch are required	to show
Compressed air, other power driven or mechanical equip.	Type of equipment		tern de tas and noufs (. anpoyn		extent of wo relation to th	enci erkin Ne
Power Stripping	Type of equipment and amount Note: Proof of actual cost must within 30 days of recording.	expended. be submitted	Names and addresses o ogether with dates wi	of owner or nen drilling	operator /stripping	nearest claim	post.
Diamond or other core grilling	Signed core log showing; footage core, number and angles of holes	a, diameter of s.	ione.	•	-	Work Sketch above) in du	(as plicate

Ministry of Northern Developi and Mines	Rep ^{ment} , of V	port Nork <u>KENORA</u>	 Min	ing Act	Instructions – –	Supply re type of For Geo- of Work (Expendit	equired da work to b technical w Geological ures)'',	taon bereco vorkus I, Geop	a separate fo orded (see t e form no. 1 hysical, Geod	orm for each able below) 362 "Repor chemical and
Name and Pol Address of	Recorded Hold	er				·····	Prospect	or's Lic	cence No.	
MISTANUU CONSOLI	DATED RES	S.LTD, transf	erred t	to CAN	RECO INC		T4	<u>853</u>		
120 Adelaide Str	eet west,	, 11th Floor,	Toront	:o - 0	ntario M5H	1V1 ph;	416-3	63-6	395	
Summary of Work Perform	nance and Di	stribution of Cred	its		Aining Claim	1 March	r;	Mining	Claim	Marti
178 days	Prefix	Number	Days Cr.	Prefix	Number	Days Cr.	Prefix		Number	Days Cr.
for Performance of the follow work. (Check one only)	ving K	645074	8	K	645083	10	К	645	110	10
Manual Work		645076	10	т. т	645084	10		645	111	10
Shaft Sinking Drifting	or	645077	10		645104	10				
Compressed Air, other		645078	10		645105	10	in the second			_
mechanical equip.		645079	10	3.1	645106	10				
A Power Stripping		645080	10		645107	10				
Diamond or other Core		645081	10		645108	10		[
Land Survey	Contraction in a	645082	10	and the second	645109	10	61700115001			
All the work was performed	on Mining Clair	^{n(s):} K645074	K645	በ75 ደ	645ATA	39105				
Required Information eg:	type of equi	ipment, Names, Ac	idresses, e	tc. (See	Table Below)	7.00			· · · · · · · · · ·	
Hutchinson Con 178 days credi Bulldozed area Resources Limit Proof of paymen	tractors, t used as maps sub ted, 1987 nt enclos	Highway 17, per above; mitted in rep Exploration ed (copy cand	Dryden balance port by Progra	, Onto of 4 J.Lan mme" (cheque	ario. 7 days to be ngelaar "Mis dated March e and endors	e used of stango (9,1988 ment or	elsewho Consol: h back	ere. idato	ed	ignature)
					March 9,198	8		Sh	intern	
Certification Verifying Rep	oort of Work				······································					
i hereby certify that I have or witnessed same during ar	a personal and nd/or after its c	intimate knowledge completion and the ar	of the facts	set forth ort is true	in the Report of W	ork annexe	d harer	aving	performed th	ne work
Name and Postal Address of P J.Langelaar, No Dryden ~ Ont. F	erson Certifyin Prontex E 28N 2Y4	• xploration Lt 807-937	zd, <u>3</u> Be 7-5085	edwort	<u>ch Road, R.R</u> Date Certified March 9, 198	.#1, bo 8)X V.Si Certilied	te by (Sig	11 nature) Nature	`
Type of Work	Spe	cific information per	type		er information (Co	mmon to 2	or more ty	(Des)	Attachr	ments
Manual Work			.169				<u> </u>			
Shaft Sinking, Drifting or other Lateral Work		Nil		Na ma	mes and addresses o nual work/operate	of men who d equipmen	performed t, together		Work Sketc are required	h: these i to show
Compressed air, other power driven or mechanical equip.	Type of equi	pment		wi1	th dates and hours o	of employm	ent.		the location extent of w relation to t	and ork in the
Power Stripping	Type of equi Note: Proof within 30 day	pment and amount e of actual cost must be ys of recording.	xpended. e submitted	Na tog	mes and addresses o lether with dates wh	of owner or ten drilling/	operator (stripping			
Diamond or other core	Signed core li	og showing; footage,	diameter of	do	ne. אמר אווו לאווד	1.100 30	+h 10A	7	Work Sketc above) in du	h (as uplicate

Ontario Ministry of Northern Developme	Report of Work SIOUX LOOK	OUT.	 Supply required data on type of work to be red For Geo-technical work u of Work (Geological, Geo Expenditures)". 	a separate form for each corded (see table below) ise form no. 1362 "Repor physical, Geochemical and
Name Postal Address of Re	corded Holder		Prospector's L	icance No.
) Adelaide Street west	11th Floor	T/853	
CAPITLEU INC. 120	Muerarde Scieet West,		14035.	·····
Toronto - Ontario	<u>M5H 1V1</u>		<u> </u>	
Summary of Work Performa	Ince and Distribution of Credits	Mining Chim	Live - Minin	
200 days	Prefix Number Day	s Cr. Prefix Number	Days Cr. Prefix	Number Days Cr.
for Performance of the followin	P 072201 ///	n		
work. (Check one only)	072202	<u> </u>		
Manual Work	972295 40			
Shaft Sinking Drifting or other Lateral Work.	9/2286 40			
Compressed Air, other Power driven or	972287 40	2		
mechanical equip.	972249 40	<u>)</u>		
Power Stripping	972248 40	o 🚺	$\{X_{i_1}^{i_1}, X_{i_2}^{i_1}, i_3\}$	
Diamond or other Core	972247 1			
Land Survey				
	and estimated the Providence of the Providence o			l
All the work was performed on	Mining Claim(s): K 645674	645075,639105 and 63	19106 LAVAL TOW	INSHIP!!!!!!!
Required Information eg: t	ype of equipment, Names, Addres	ses, etc. (See Table Below)		
The 280 days claim a BALANCE OF 163 DRILL LOGS SUBMIT "Mistango Consoli Diamond drilling coresize B.Q. Co	ms is a portion of the DAYS (FEET) still unus TED IN REPORT BY Langel dated Resources Limited performed by ED FONTAIN re stored at Camreco Mi	balance of 443 days ed. aar, dated March 9, I, 1987 Exploration IE DIAMOND DRILLING ne site. Date of Report March 9,1	credit, thus lea 1988, entitled programme, March LTD. KENORA Ontar	ving 1988" io. er or Agent (Signature)
Certification Verifying Report	rt of Work			·
I hereby certify that I have a j or witnessed same during and/	personal and intimate knowledge of the /or after its completion and the annexe 	a facts set forth in the Report of a report is true.	Work annexed and both	performed the work
Name and Postal Address of Pers	on Certifying			
J.Langelaar, Noron	ntex exploration Ltd.	RR Nº1, box 7, site	11 Contractor (Si	an ture)
Dryden – ont. ph:	807-937-5085	March 9,19	988 (7)	plan
Table of Information/Attach	ments Required by the Mining Re	corder		
Type of Work	Specific information per type	Other information (C	ommon to 2 or more types)	Attachments
Manual Work				
Shaft Sinking, Drifting or other Lateral Work	Nil	Names and addresses manual work/operat	of men who performed ed equipment, together of emologiment	Work Sketch: these are required to show
Compressed air, other power driven or mechanical equip.	Type of equipment	With Gates and hours	or employment,	the location and extent of work in relation to the
Power Stripping	Type of equipment and amount expend Note: Proof of actual cost must be sub- within 30 days of recording	Jed. mitted Names and addresses	of owner or operator	neerest claim post.
	within 50 days of recording.	tonether with deter w	when drilling/stripping	



Dnlarie 2	VAL TWP m-22	NOR Wast	11.090	type of t - For Geo-t of Work (Expenditi	work to be echnical wori Geological, G ures)''.	recorded (see k use form no. eophysicel, Geo	1362 "Repo ochemical a
Name and Postal Address of	Recorded Holder	70 Minin	y Act		Prospector's	Licence No.	
MI Was cons.	REC_LTD_transferred	to CAMREC	O INC		T 4853	3	
120 Adelaide St Summary of Work Perform	reet West, 11th Flo nance and Distribution of Cr	or, Toront edits	<u>o - Ontario M5</u>	H 1V1 p	<u>h: 416-3</u>	364-6395	
Total Work Days Cr. claimed	Mining Claim	Work	Mining Claim	Work	Min	ing Claim	Wor
1047 for Performance of the follow			630050	80	V 6	Number 30106	80
work. (Check one only)	039047		639059	03		20107	03
Manual Work	639048	- 89	039000	09		00400	09
Shaft Sinking Drifting of other Lateral Work.	b <u>.</u> <u>639051</u>	89	639061	89		539108	89
Compressed Air, other Power driven or	639052 .	89	639066	89	a start (539111	89
mechanical equip.	639055	89	639067	89		539112	89
	639056	89	639108	89		539113	89
drilling	639057	89	639104	89		539121	89
Land Survey	639058 VI	89	639105 -	89			
All the work was performed of	on Mining Claim(s): K64567	4,645075,6	39105 & 639106				
Required Information eg:	type of equipment, Names,	Addresses, etc.	. (See Table Below)				
Diamond drill ho	les M87-1 to M87-8	<pre>incl.; tot</pre>	al footage 249	0 feet			
Dismond duilling	newformed by FD FD		NOND DDILLING	1 70			
Diamond drilling	performed by ED FU	INTAINE DIA	MUND DRILLING	LIU. D.O. Cou		d . t. O	
	Kenor	a - Untari	o ; core size	B.Q. LOI	re store	Mine	eco site!
DRILL LOGS SUBMI	TTED IN REPORT BY J	.LANGELAAR	, dated March	9,1988,	entitle	1 1	
"Mistango Concol					01101010		
mistanyo tonsol	idated Resources Li	mited, 198	7 Exploration	Programm	ne, March	1988"	
mistanyo tonsol	idated Resources Li	mited, 198	7 Exploration	Programm	ne, March	n 1988"	
TOTAL CREDITS US	idated Resources Li ED FOR ABOVE CLAIMS	mited, 198 = 2047!	7 Exploration BALANCE OF 443	Programm davs to	be app	n 1988" lied else	where!
TOTAL CREDITS US	ED FOR ABOVE CLAIMS	mited, 198 = 2047!	7 Exploration BALANCE OF 443	Programm days to	be appl	n 1988" Lied elsen	where!
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	Idated Resources Li	mited, 198 = 2047!	7 Exploration BALANCE OF 443 ARIO DEOLOGIDAL 6 ASSESSMENT FIL OFFICE	Programm days to gener S	be app	n 1988" Lied elsen	where!
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	idated Resources Li ED FOR ABOVE CLAIMS MINING DIV. UEIVE MAR 15 1988	mited, 198 = 2047!	7 Exploration BALANCE OF 443 ANIO DEGLOGICAL S ASSESSMENT FIL OFFICE APR 21 1988	Programm days to sever	be appl	n 1988" lied elsen	where!
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TOTAL CREDITS US NAME TOTAL CREDITS US K AM 71819;10 Certification Verifying Rep I hereby certify that I have or witnessed same during a Name and Postal Address of P J.Langelaar, Nor Drydon Optanio	idated Resources Li ED FOR ABOVE CLAIMS ENORA MINING DIV. UESIVE, MAR 15 1988 Dilli12:1:2:3:4:5:6 Dort of Work a personal and intimate knowled nd/or after its completion and th erson Certifying ontex Exploration L	mited, 198 = 2047! ONT f dge of the facts so te annexed report td. RR N°	7 Exploration BALANCE OF 443 ARIC OFFICE OF FIL OFFICE APR 21 1988 R E Pate of Report March 9; at forth in the Report of t is true. 1, box 7, site Pate Certified March 0	Programm days to FRVCY S D 1988 Work annexe 11, 3 Be	Becorded H	dider or Agent dider or Agent ming performed Road	(Signature the work
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Northern Developm	nent of Work KFI	VORA DOCL	IMENT I	0.	type of t - Foi Geo-t	work to be echnical we	recorded (see t	able belo 362 "Ren
intario (D VE		W88	301.0	72	of Work (Expenditu	Geological,	Geophysical, Geo	hemical
Vame and Postal Address of P	Tecorded Holder		ng Act			Prospector	r's Licence No.	
CAM O INC.						Т 4	853	
120 Adelaide Str	reet west 11th Flr	or Inron		ntario				
ummary of Work Perform	nance and Distribution of C	redits						
otal Work Days Cr. claimed	Mining Claim	Work	MI	ning Claim	Work	M	lining Claim	Wo
210 days	Prefix Number	Days Cr.	Prefix	Number	Days Cr.	Prefix	Number	Days
or Performence of the follow work. (Check one only)	Ing K 972250	30	1				KEN	
Manual Work	972246	30	a are de a				, hinning h	7
Shaft Sinking Drifting o	y 972245	30				111	<u> </u>	•
Compressed Air, other	972244	30	r and			AN I	MARIL	4 // i
Power driven or mechanical equip.	972235	30				718,9,1	11	8 E
Power Stripping	072236	30				Station -	12,1,2,3	PH
Diamond or other Core	972230		美文十				L	খ্য
Land Survey	972231	3U	6			-	1)	+
			<u>苏始终于</u>				, 	
All the work was performed o	on Mining Claim(s): 164	5075,64	5074,	139105	E 639	106	Xa.	
equired Information eg:	type of equipment, Name	s, Addresses, et	tc. (See	Table Below)				
See also work r	eports submitted t	o Sioux Lo	okout	& Kenora	- copies	s enclo	sed.	
DRILL CREDITES	REMAINING			163	feet = c	days		
BULLDOZING CRED	TS REMAINING SURV	EY			C	lays '		
	ASSESSMENT MELL		Tota	1: 210	davs: 7	7 = 30 (davs each.	
R.					j - • •			
Drill logs subm	APR 21 1900		. "Mia	stango Con	colidate	nd maca	uncor limit	ad
		Langeraar	400	7 Eurlanat				eu,
	RECEIVED		1907	/ εχριστάι	ION Proy	Jrannie, r 木	March 1988"	
	FUNTAINE DIAMUND D	KILLING LI	D - Ke	enora		= (1)		
core size B.Q.;	core stored at la	mreco Mine	e site					
Bulldozing by H	utchinson Contract	ors, Dryde	en f r	Date of Report		Recorded	Holder or Agent (Signatur
			h	March 9, 1	988	L N	yunna	y_
ertification Verifying Rep	ort of Work				14/			
or witnessed same during a	a personal and intimate knowl nd/or after its completion and	eage of the facts the annexed repo	set torth ort is true.	m the Report of	work annex		eving performed f	ne work
lame and Postal Address of P	erson Certifying						· · · · · · · · · · · · · · · · · · ·	
J.Langelaar, No	rontex_exploration	_Ltd	Г г	Date Certified		Certified b	A (Signature)	
3 Bedworth Road	- Dryden - Q nt. R	RN°1, box	7, sit	ce 11 Mar	ch 9,198	∦ 8 `∭]	(LIIMan	سد
able of Information/Atta	chments Required by the I	Mining Records	er	· · · · · · ·				~
	Specific informatio	n per type	Othe	r information (C	Common to 2	or more ty	(pes) Attach	ments
Type of Work								
Type of Work Manual Work			Nar	mes and addresse	s of men who	operformed	Work Sket	ch: thes
Type of Work Manual Work Shaft Sinking, Drifting or	Nil			nuel work/opera		, logether	are require	id to sho
Type of Work Manual Work Shaft Sinking, Drifting or other Lateral Work	Nil	<u> </u>	wit	h dates and hour	s of employr	ment.	the locatio	
Type of Work Manual Work Shaft Sinking, Drifting or other Lateral Work Compressed air, other power friven or mechanical equip.	Nil Type of equipment	<u></u>	wit	h dates and hour	s of employr	4	extent of relation to	work in the
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Type of Work Manual Work Shaft Sinking, Drifting or other Lateral Work Compressed air, other power driven or mechanical equip. Power Stripping	Nil Type of equipment Type of equipment and amo Note: Proof of actual cost m within 30 days of recording.	unt expended. lust be submitted	j Nar tog	h dates and hour 972 mes and addresse other with dates	s of employr 23 s of owner o when drilling	r operator g/stripping	relation to nearest cla	work in the im post.
Type of Work Manual Work Shaft Sinking, Drifting or other Lateral Work Compressed air, other power driven or mechanical equip. Power Stripping Diamond or other core	Nil Type of equipment Type of equipment and amo Note: Proof of actual cost m within 30 days of recording. Signed core log showing; foc	unt expended. lust be submitted ltage, diameter of	Mai wit Nar tog f	h dates and hour 972 mes and addresse ether with dates 16.	s of employr 23 s of owner o when drilling	r operator g/stripping	Work Sket	work in the im post. ch (as
Type of Work Manual Work Shaft Sinking, Drifting or other Lateral Work Compressed air, other power driven or mechanical equip. Power Stripping Diamond or other core drilling	Nil Type of equipment Type of equipment and amo Note: Proof of actual cost m within 30 days of recording. Signed core log showing; foc core, number and angles of t	unt expended. lust be submitted ltage, diameter of loles.	Mai wit Nar tog	h dates and hour 972 mes and addresse other with dates 16.	s of employr 23 s of owner o when drilling	r operator g/stripping	Work Sket	work in the im post. ch (as duplicate

Ontario Ministry of Northern Developm and Mines	Report of Work <u>KENORA</u>	 Minina	Instructions - - Act	- Supply re type of t - For Geo-t of Work (Expenditu	quired data work to be echnical wor Geological, G ires)''.	on a separate fo recorded (see ta k use form no. 13 Geophysical, Geoc	rm for each ble below) 862 "Report hemical and
Name at stal Address of F	lecorded Holder		<u> </u>		Prospector's	s Licence No.	·····
MISTANGO CONSOLI	DATED RES.LTD, transf	erred to	CAMRECO INC		T485	53	
120 Adelaide Stre	eet west, 11th Floor,	Toronto ·	- Ontario M5H	1V1 ph;	416-363	3-6395	
Total Work Days Cr. claimed	Mining Claim	ts Work	Mining Claim	Work	Mir	ning Claim	Work
178 days	Prefix Number	Days Cr. Pre	fix Number	Days Cr.	Prefix	Number	Days Cr.
for Performance of the follow work. (Check one only)	ing K 645074	<u>8 K</u>	645083	10	K E	545110	10
Manual Work	645076	10	645084	10	· · · · · · · · · · ·	545111	10
Shaft Sinking Drifting o	645077	10	645104	10		EGLOCICAL SH	ELECTRA
Compressed Air, other	645078	10	645105	10	Maga s	SMERT FILE	3
Power driven or mechanical equip.	645079	10	645106	10		CHRICE	
Power Stripping	645080	10	645107	10	: AP	R 21 1989	
Diamond or other Core	645091	10	645107	10			
Land Survey	045001	10	045108	10	REC	EIVED	
	645082	10	645109	10	A SALAN AND A S		
All the work was performed o	n Mining Claim(s): K645074	, K645075	8 645038 63	9105		<u>, </u>	· · · · · · · · ·
Required Information eg:	type of equipment, Names, Ac	ldresses, etc.	(See Table Below)				
178 days credit Bulldozed area Resources Limit Proof of paymer	: used as per above; maps submitted in rep ed, 1987 Exploration at enclosed (copy cane	balance of Dort by J. Programme Celled che	47 days to b Langelaar "Mi e" dated March eque and endor	e used stango 9,1988 sment or	elsewher Consolid • h bac(.)	e. lated	ignature)
Certification Verifying Ber	ort of Work				- h	Juprova	
I hereby certify that I have or witnessed same during ar	a personal and intimate knowledge nd/or after its completion and the a	of the facts set nnexed report is	forth in the Report of t s true.	Work annexi	d harte, ta	ving performed th	ne work
Name and Postal Address of P	erson Certifying		<u> </u>		- /	<u></u>	
J.Langelaar, No	rontex Exploration L	t <mark>d, 3</mark> Bedw	orth Road, R.	R.#1, bo	DX V, sit	Signeture)	
Dryden - Ont. F	8N 2Y4 807-93	7-5085	March 9, 19	88	NO	uhlaar	•
Table of Information/Atta	chments Required by the Mini	ng Recorder				1	
Type of Work	Specific information per	type	Other information (Co	ommon to 2	or more type	es) Attachr	nents
Manual Work					4		
Shaft Sinking, Drifting or other Lateral Work	Nii		Names and addresses manual work/operat with dates and hours	of men who ed equipmen of employn	performed nt, together nent.	Work Sketc are required the location	h: these d to show n and
Compressed air, other power driven or mechanical equip.	Type of equipment			·····		extent of w relation to	vork in the
Power Stripping	Type of equipment and amount e Note: Proof of actual cost must b within 30 days of recording.	e submitted	Names and addresses together with dates v	of owner or vhen drilling	operator /stripping		
Diamond or other core	Signed core log showing; footage,	diameter of	done. .111NF 20 8	Juna 31	1+h 1987	Work Sketc above) in d	:h (as uplicate





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atural (Ger Aesources (Ger	oort of Work ophysical, Geological,	SIOUX	LOOKOUT	to	nstructions:	Please ty If numbe exceeds s	pe or print. er of mining cli pace on this forr	aims traverse m, attach a lis wated in th
Geo	chemical and Expend	itures)			Note: -	"Expende	vs credits calci tures'' section m 'Expand Dove	nay be entere
			Mining	Act		Do not us	e shaded areas be	elow.
GROUND GEOPHYSI Claim Homeses CAMRECO INC.	CAL - VLF & MA	GNETOME	TER	<u>.</u> .	McAre	e towns Prospecto T 48	hip or's Licence No. 153	
A toress 120 Adelaide St Survey Company Norontex Explo Name and Address of Author (c	preet west, 11t	h Floor	- Toront	CO - Ontario	0 M5H (from & to) v87 DQ1	1V1 ∧10∶87.	Total Miles of In 14.8 mil	es
<u>3 Bedworth road</u> ,	R.R.Nº 1, DOX	/ site	11 Dryc	len - Ontari	10 P8	<u>N 2Y4</u>	2022	
Special Provisions	Gaoobucical	Days per	Nining Cia	ning Claim	Expend.	erical sequ	erice) Vining Claim	Expend.
For first survey.		Claim	Prefix	Number	Days Cr.	Pretrx	Number	Days Cr.
Enter 40 days. (This	 Electromagnetic 	40	P	972247	21-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-			
includes line cutting)	Magnetometer	20		972248	ONTE STATE	SECLANDES SE ADRESE	AL SURVEY	
For each additional survey.	- Radiometric			972249		DEFICE	1	
using the same grid:	Other			972285		har	1000	
Enter 20 days (for each)	Geological			972205	<u> </u> A	- K 2 L	999	
	Genetarias			972286				
Man class	Geochemical			972287	<u>R</u> 4	<u>q E I /</u>	ED	
	Geophysical	Claim		972289				
Complete reverse side and enter total(s) here	- Electromagnetic			972290				
	Magnetometer			972291				
	- Radiometric			070000				
	0.5			972293				
	Oluer		-					
	Geological							
	Geochemical							
Airt orne Credits		Days per Claim						
Note: Special provisions	Electromagnetic				+	}		
credits do not apply					<u>+</u>			·
to Airborne Surveys.	Magnetometer				h			
	Radiometric							
Expenditures (excludes power	er stripping)							
rype of work renormed								
Performed on Claim(s)			-		11			
n								
Calculation of Expenditure Days	s Credits					1		
Total Expenditures	- Day:	Fotał s Credits						
s	+ 15 =		بغيي مرسمي الم	······	لــــــا	Totala	mber of mining 1	
L [*]						claims co	vered by this work.	10
Total Days Credits may be ap	padmoned at the claim h	older's	[or Office Line O		ייייייייייייייייייייייייייייייייייייי		L
choice. Enter number of days in columns at right.	s tructus per claim selecto	ed	Total Days	Cr. Date Recorded	nity	Mining Re	ecorder	
		J	Recorded			l		
Date Rec	:original Holder or Agent (S	Signature)		Date Approved	as Recorded	Branch D	rector	
Marcn 9,1988	philling	~+	۰ L					
Linerative Verifying Repo	REON COR	owledge of	the facto cot fo	rth in the Report	of Work upon		having performe	d the work
(i) witnessed same during and	For after its completion	and the anne	exed report is t	rue.	UT VIULK ANNE		naving periorine	
Name and Politic Address of Pers	son Certifying					TIT		

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Ministry of Northern Developr and Mines	Report ^{nent} of Work <u>KEN</u>	IORA. Mining	Instructions -	Supply re type of For Geo-t of Work (Expendite	equired data work to be echnical wo Geological, (ures)''.	on a separate f recorded (see rk use form no, 1 Geophysical, Geo	orm for each table below) 1362 "Report ochemical and
Name as ustal Address of I	Recorded Holder				Prospector	's Licence No.	
MISTANGO CONS.	RES.LTD transferred	to CAMREC() INC		1 485	3	
120 Adelaide St	reet West, 11th Floo	r, Toronto	o - Ontario M5H	<u>1V1 p</u>	h: 416-	364-6395	
Summary of Work Perform	nance and Distribution of Cree	dits	Mining Claim	I Work	T Mi	ning Claim	Work
	Prefix Number	Days Cr. Pr	efix Number	Days Cr.	Prefix	Number	Days Cr.
for Performance of the follow work. (Check one only)	ving K 639047	89 K	639059	89	K	639106	89
Manual Work	639048	89	639060	89	R- Start	639107	89
Shaft Sinking Drifting o	or 639051	89	639061	89		639108	89
Compressed Air, other	639052	89	639066	89	P v r L	639111	89
Power driven or mechanical equip.	639055	89	639067	89		639112	89
Power Stripping	639056	89	639108	89		639113	89
Diamond or other Core drilling	** 639057	89	639104	89		639121	89
Land Survey	639058	89	639105	89	8.01940		-
All the work was performed of	on Mining Claim(s): V64557	- 645075 61		L	#		*
Bequired Information eq:	type of equipment. Names, A	ddresses, etc.	(See Table Below)				
Diamond drilling DRILL LOGS SUBMI "Mistango Consol TOTAL CREDITS US	performed by ED FON Kenora TTED IN REPORT BY J. idated Resources Lim ED FOR ABOVE CLAIMS	TAINE DIAM - Ontario LANGELAAR ited, 1987 = 2047! E	MOND DRILLING L o ; core size B , dated March 9 7 Exploration P BALANCE OF 443	TD. .Q. Cor ,1988, rogramm days to <u>988</u>	entitle entitle ne, Marc be app	d at Camro Mine s d h 1988" lied elsev	eco site! where!
Certification Verifying Rep	port of Work		··· ··-		A^{+}		<u> </u>
I hereby certify that I have or witnessed same during a	a personal and intimate knowledg nd/or after its completion and the	e of the facts set annexed report	t forth in the Report of V is true.	Vork annex	ad he paro. p	wing performed	the work
Name and Postal Address of P	erson Certifying					·	
J.Langelaar, Nor	ontex Exploration Lt	d. RR N° ′	1, box 7, site 1	1, 3 Be	dworth	Road	
Dryden - Ontario	: PH: 807-937-5085		March 9, 1	988		MANU	<u> </u>
Table of Information/Atta	chments Required by the Min	ing Recorder			· · · · · · · · · · · · · · · · · · ·		· · · · · ·
Type of Work	Specific information p	er type	Other information (Co	ommon to 2	or more typ	Ses) Attacl	hments
Manual Work	Nii				V		
Shaft Sinking, Drifting or other Lateral Work			Names and addresses manual work /operate with dates and hours	of men whe ed equipme of employr	o performed nt, together nent.	Work Ske are requir the location	tch: these ed to show on and work in
driven or mechanical equip.	i ype or equipment			· · ·		relation to	o the
Power Stripping	Type of equipment and amount Note: Proof of actual cost must within 30 days of recording.	expended. be submitted	Names and addresses together with dates w	of owner or /hen drilling	r operator stripping		ann post.
Diamond or other core	Signed core log showing; footag	e, diameter of	done.			Work Ske above) in	tch (as duplicate

			Mi	ning Act		of Work (Expendition	Geological, C ures)''.	Seophysical, Geo	ochemical ar
Name a Stal Address of	Recorded Hold	er de Ctreat i		+			Prospector	s Licence No.	
CAMRECO INC. I	ZU AUEIdi	de street w	<u>est, 11</u>	LII F100	<u>r</u>	<u> </u>	14053).	· · · · · ·
Toronto - Ontar	io M5H	1V1 stribution of Cri	dite						
Total Work Days Cr. claimed		Mining Claim	Work	Mi	ning Claim	Work	Mi	ning Claim	Work
280 days	Pretix	Number	Days Cr.	Prefix	Number	Days Cr.	Prefix	Number	Days C
for Performance of the follow work. (Check one only)	wing P	972291	40	 					
Manual Work		972293	40						
Shaft Sinking Drifting	or	972286	40	12 J. J. S. S.					
Compressed Air, other		972287	40				11.6		
Power driven or mechanical equip.		972249	40						
Power Stripping		972248	40	[
Diamond or other Corr drilling	8	972247	1					<i>,</i>	
Land Survey		<u>,</u> 一					No. Care	1	
	on Mining Claus								
An the work was performed		K 645	974.645	175,639	105 and 63	9106	LAVAL I	UWNSHIP!!	<u></u>
	type of equi							******	
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DRILL LOGS SUBM "Mistango Conso Diamond drilling coresize B.Q. (ITTED IN F lidated Re g performe Core store	FEET) still REPORT BY La esources Lin ed by ED FON ed at Camred	unused angelaan mited, f NTAINE E co Mine	r, dated 1987 Exp DIAMOND site.	March 9, Doration	1988, en programm LTD. KEN	ititled ne, Marc IQRA Ont	h 1988" ario.	
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ontano	^{nent} of V	Vork <u>KEN</u>	ORA.		Instructions -	 Supply reting type of the second secon	equired dat work to b technical w Geological	ta on a separate f e recorded (see ork use form no. , Geophysical, Geo	form for eac table below 1362 "Repo ochemical an
Name and Postal Address of F	Recorded Holde		Mir	ning Act		Expendition	Prospecto	or's Licence No.	
MISTANGO CONS.	RES.LTD t	ransferred	to CAMR	ECO IN	IC		T 48	53	
120 Adelaide St	reet West	, 11th Floo	r, Toro	nto -	Ontario M5H	11V1 p	oh: 416	-364-6395	
Total Work Days Cr. claimed	Prefix	Aining Claim	Work Davs Cr.	Prefix	Aining Claim	Work Davs Cr.	Prefix	Aining Claim	Work
for Performance of the follow	ving K	639047	89	K	639059	89	K	639106	89
vork. (Check one only)		639048	89		639060	89		639107	89
		639051	89		639061	89		639108	89
other Lateral Work.	or All the second	639052	80	s đác	639066	89		639111	89
Compressed Air, other Power driven or		620055	05	an the	620067	90		630112	90
Power Stripping		639055	09		639067	- 09		639112	09
Diamond or other Core	**	639056	89		639108	89		639113	89
drilling		639057	89		639104	89		639121	89
	· · · · · ·	639058	89		639105	89			
All the work was performed o	on Mining Claim	n ^{(s):} K645074	,645075	,63910	5 & 639106				
equired Information eg:	type of equi	pment, Names, A	ddresses, e	etc. (See	Table Below)				
MIStallgo CONSOI	idated Re	sources Lim	ited, 1	987 Ex	ploration F),1988, Programm	entitl me, Mar	ed ch 1988"	
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178 days	Prefix Number	Days Cr. Pre	fix Number	Days Cr.	Prefix	Number	Days Cr.
for Performance of the follow work. (Check one only)	ing K 645074	8 K	645083	10	K	645110	10
Manual Work	645076	10	645084	10	N. (1974)	645111	10
Shaft Sinking Drifting o	, 645077	10	645104	10			
Compressed Air, other	645078	10	645105	10			
Power driven or mechanical equip.	645079	10	645106	10			
Power Stripping	645080	10	645107	10			
Diamond or other Core	645081	10	645108	10			
Land Survey	645082	10	645100	10	ates the second	-	
	n Mining Claim(s):	10 100	043105	1 10	A A A A A A A A A A A A A A A A A A A		I
All the work was performed o	K645074	, K64507	5 & 645038° 4	639105	E 639	×06 J.	
Required Information eg:	type of equipment, Names, Ac	idresses, etc.	(See Table Below)	·			• <u> </u>
178 days credit Bulldozed area Resources Limit Proof of paymen	used as per above; maps submitted in re ed, 1987 Exploration t enclosed (copy can	balance o port by J Programm celled ch	f 47 days to Langelaar "M e" dated Marc eque and endo	be used listango h 9,1988 prsment of	elsewhe Consoli • n bac	dated	(Signature)
	and of Monte		March 9,1	988	<u>L'</u>	Juplaa	1. ····
I hereby certify that I have	a personal and intimate knowledge	of the facts set	forth in the Report of	of Work annex	d har	aving performed	the work
or witnessed same during an	d/or after its completion and the a	nnexed report i	s true.				
Name and Postal Address of Po	erson Certifying Montay Evolopetion L-	rd 2 Dad	worth Dood D	D #1 5	, ∐]	to 11	
Dryden - Ont. P	8N 2Y4 807-93	r-5085	Date Certified Date Certified Narch 9, 1	<u> </u>	Certilied p	v (Signeture)	
Table of Information/Atta	chments Required by the Mini	ng Recorder			$-\rho v$	My an	
Type of Work	Specific information per	type	Other information (Common to 2	or more ty	pes) Attack	hments
Manual Work							
Shaft Sinking, Drifting or other Lateral Work	Nil		Names and address manual work/oper	tes of men who rated equipment	performed ht, together	Work Ske are require	tch: these ed to show
Compressed air, other power driven or mechanical equip.	Type of equipment			ars or employn		the location extent of relation to	on and work in o the
Power Stripping	Type of equipment and amount e Note: Proof of actual cost must b within 30 days of recording.	e submitted	Names and address together with date	ses of owner or s when drilling	r operator J/stripping	nearest cli	ann post.
Diamond or other core	Signed core log showing; footage,	, diameter of	done. ,111NF 29	<u>& June 30</u>)th.198	Work Ske above) in	tch (as duplicate







Ministry of Northern Developm and Mines	Report of Work <u>KEN(</u>)RA Minin	Instructions - - n Act	 Supply restricted type of the second s	equired data on work to be rec technical work u Geological, Geo ures)''.	a separate for orded (see ta se form no. 13 physical, Geoc	rm for each ble below) 62 "Report hemical and
Name and Postal Address of F	Recorded Holder		3,		Prospector's Li	cence No.	
CAMRECO INC.					T 4853	}	
120 Adelaide Str	reet west, 11th Floo	or Toront	o - Ontario				
Summary of Work Perform	nance and Distribution of Cr	edits			······································		·······
Total Work Days Cr. claimed	Mining Claim Prefix Number	Work Days Cr. F	Mining Claim	Work Days Cr.	Mining Prefix	l Claim Number	Work Days Cr.
210 days							1
work. (Check one only)	K 972250	30					+
Manual Work	972246	30	er er a		* . 19 to 3 st		
Shaft Sinking Drifting of other Lateral Work	["] 972245	30\$					
Compressed Air, other	972244	30					
Power driven or mechanical equip.	972235	30					
Power Stripping	072226	20					
Diamond or other Core	972230		9			·	1
Land Survey	9/223/	30					
h							<u> </u>
All the work was performed o	on Mining Claim(s): 🛛 🗶 64	5075 K	645074, 6391	05 E	639106		
Required Information eg:	type of equipment, Names,	Addresses, etc	. (See Table Below)				
DRILL CREDITES BULLDOZING CRED Drill logs subm DRILLING BY ED core size B.Q.; Bulldozing by H	REMAINING ITS REMAINING itted in report by FONTAINE DIAMOND DR core stored at Cam utchinson Contracto port of Work	Langelaar: ILLING LTE reco Mine rs, Dryder	Total: 210 "Mistango Cons 1987 Explorat: - Kenora site Date of Report March 9, 10 at forth in the Report of	feet = 0 days: 7 solidate ion Prog	days days 7 = 30 day ed resourc gramme, Mar	s each. es Limite ch 1988" er or Agent (S	ignature)
or witnessed same during an	nd/or after its completion and th	e annexed repor	t is true.				
Name and Postal Address of P	erson Certifying						
J_Langelaar, No	rontex exploration	Ltd.	Date Certified		Certified b (S	ignature)	
3 Bedworth Road	- Dryden - O nt. RR	N°1, box 7	, site 11 Marc	h 9,198		Maar	1
Table of Information/Atta	chments Required by the Mi	ning Recorder				\rightarrow	•
Type of Work	Specific information	per type	Other information (C	ommon to 2	or more types)	Attachn	nents
Manual Work							
Shaft Sinking, Drifting or other Lateral Work	Nil		Names and addresses manual work / operat with dates and hours	of men who ed equipments of employr	o performed nt, together nent.	Work Sketc are required	h: these I to show
Compressed air, other power driven or mechanical equip.	Type of equipment				 	extent of w relation to 1	ork in the
Power Stripping	Type of equipment and amoun Note: Proof of actual cost must within 30 days of recording.	nt expended. st be submitted	Names and addresses together with dates	of owner o when drilling	r operator J/stripping	nearest Clâi	
Diamond or other core	Signed core log showing; foota	ge, diameter of les.	done.			Work Sketc above) in di	h (as uplicate

Ministry of Northern Developr and Mines	Rep nent of N	oort Nork <u>KENORA</u>	B.6:-		Instructions — —	Supply re type of t For Geo-t of Work (Expendite	equired da work to b technical w Geological ures)''.	ta on a sep e recorded ork use for , Geophysic	arate form (see tabli m no. 1362 al, Geoche) for each e below). 2 "Report mical and
Name and Postal Address of I	Recorded Hold	er	14111	ning Act		· · · · · · · · · · · · · · · · · · ·	Prospecto	or's Licence	No.	
MISTANGO CONSOLI	DATED RE	S.LTD, transf	erred	to CAN	IRECO INC		T4	853		
120 Adelaide Str	eet west	, 11th Floor,	Toron	to - 0	ntario M5H 1	V1 ph;	416-3	63-6395		
Summary of Work Perform	nance and Di	stribution of Cred	its			·	.			
178 days	Prefix	Mining Claim Number	Work Days Cr.	Prefix	Number	Work Days Cr.	Prefix	lining Clain Num	n ber	Work Days Cr.
for Performance of the follow work. (Check one only)	ing K	645074	8	ĸ	645083	10	K	645110		10
Manual Work		645076	10		645084	10		645111		10
Shaft Sinking Drifting of other Lateral Work.	or an ann an Anna an An	645077	10		645104	10	i anti anti			
Compressed Air, other Power driven or		645078	10		645105	10				
mechanical equip.		645079	10	5 :	645106	10				
	1. 18 1.	645080	10		645107	10	•			
drilling		645081	10		645108	10				
	a martin	645082	10	S. Contactor	645109	10	GAN I SHR	(<u>}</u>	
All the work was performed o	n Mining Clair	^{n(s):} K645074	, K645	5075 <u>&</u>	645038 63	9105	<u>е 6з</u>	9106	¥:	
Required Information eg:	type of equ	pment, Names, Ac	ldresses, e	etc. (See	Table Below)		<u> </u>		<u> </u>	
Hutchinson Cont 178 days credit Bulldozed area Resources Limit Proof of paymen	maps sub ed, 1987 t enclos	Highway 17, per above; I mitted in rep Exploration ed (copy cand	Dryder Dalance Dort by Progra	n, Onto e of 4 / J.Lan amme" of cheque	ario. 7 days to be ngelaar "Mis dated March 9 e and endors Date of Report March 9,1988	used (tango (9,1988, ment or	elsewhe Consoli n bac	dated	gent (Sign	nature)
I hereby certify that I have	a personal and	intimate knowledge	of the fact	s set forth	in the Report of Wo	ork annexe	d here,	aving perfo	rmed the v	work
or witnessed same during an	d/or after its d	ompletion and the ar	nexed rep	ort is true			-	·		
J.Langelaar. No	rontex F	* xploration (t	:d. 3 R	edwort	h Road. R.R	.#1. br	x H.L.	te 11		
Dryden - Ont. P	8N 2Y4	807-937	7-5085	Canol	Date Certified larch 9, 1988	3	Cert lied b	v (Signatur	e)	
L Table of Information/Attac	hments Req	uired by the Minir	ng Record	er	<u> </u>		$-i\mu\nu$	in pie		≤₋₋₋₋
Type of Work	Spe	cific information per	τγρε	Oth	er information (Com	mon to 2	or thore ty	pes)	Attachmen	nts
Manual Work					<u></u>					
Shaft Sinking, Drifting or other Lateral Work		Nil		Na ma wii	mes and addresses of nual work/operated in dates and hours of	f men who equipmen femolovm	performed t, together ent.	Wor are the	k Sketch: equired to	these show
Compressed air, other power driven or mechanical equip.	Type of equi	pment						exte exte relat	nt of work ion to the est claim o	in Dost.
Power Stripping	Type of equi Note: Proof within 30 da	pment and amount e of actual cost must be ys of recording.	xpended. e submitted	d Na	mes and addresses of lether with dates who	owner or en drilling/	operator stripping			
Diamond or other core	Signed core i	og showing; footage,	diameter o	f doi	19. 111NE 20. 8. 1	1000 30	th 100	Wor 7 abov	k Sketch (a e) in dunli	as i cate

Ontario Ministry of Northern Develop	Report of Worl	C SIOUX LC	<u>)OKOUT</u> .	,	Instructions — —	Supply re type of v For Geo-t of Work (equired data work to be echnical wor Geological, G	on a separate fo recorded (see t k use form no. 1 Beophysical, Geo	orm for each able below). 362 "Report chemical and
1		·	Min	ning Act	·	c xpenuitt	1162) .		
Name and Postal Address of	Recorded Holder	C L L					Prospector'	s Licence No.	
CAMRECU INC. T	ZU Adelaide	Street wes	st, 11t	<u>n F100</u>	r		14853	•	
Toronto - Ontar	io M5H 1V1								
Summary of Work Perform	mance and Distrib	ution of Credit	ts						
Total Work Days Cr. claimed	Brefix	g Claim	Work Days Cr.	Mi	ning Claim	Work Days Cr.	Mir	Number	Work Days Cr
280 days		70004	40						
work, (Check one only)	P 9	12291	- 40						
Manual Work		72293	40						
Shaft Sinking Drifting	or <u>9</u>	72286	40						
Compressed Air, other	9	72287	40				1997 - 1997 -		
Power driven or mechanical equip.	9	72249	40	<u></u>					
Power Stripping		72249	40	a harre					
Diamond or other Core	, 9,	12240	40		·····	<u> </u>	a e staliget		+
drilling	9/	/224/		-		l	-	· · · · · · · · · · · · · · · · · · ·	
	- in Bali une			AL WINGHL			let in which		
All the work was performed a	on Mining Claim(s):	K 61507	4 6450	75 620	105 and 620	106	LAVAL T	OWNSHIP!!!	!!!!!
Required Information eg:	type of equipmer	nt, Names, Ad	dresses, e	tc. (See	able Below)	<u></u>		<u></u>	
DRILL LOGS SUBMI "Mistango Consol Diamond drilling coresize B.Q. (ITTED IN REPO lidated Resou performed b Core stored a)RT BY Lang rces Limi: by ED FONT it Camreco	gelaar ted, 1 AINE D Mine	, dated 987 Exp IAMOND site.	March 9,19 Doration pi DRILLING LT	988, en rogramm TD. KEN	NTITLED	h 1988" ario.	ignature)
Certification Verifying Ber	port of Work	<u></u>	<u> </u>	<u>_</u>	<u>March 9,198</u>	38	<u></u>	mun	
I hereby certify that I have or witnessed same during a	a personal and intim nd/or after its comple	ate knowledge o etion and the an	of the facts nexed rep	set forth i ort is true.	n the Report of W	ork annexed	a projector	ing performed th	
Name and Postal Address of P	Constant of the second s						TUT		ne work
	rerson Certitying						1 1.1		ne work
J.Langelaar, Nor	<u>`ontex_explor</u>	ation Ltd.	RR	N°1, bo	<u>x 7. site 1</u>	1		(Sign Truch)	ne work
J.Langelaar, Nor Dryden – ont. ph	<pre>`ontex_explor : 807-937-50</pre>	<u>ation Ltd.</u> 85	<u>. RR I</u>	N°1, bo I⊡	<u>x 7. site 1</u> ^{Bite Certified} March 9.198	1	a filter	(Sign ture)	ie work
J.Langelaar, Nor Dryden – ont. ph Table of Information/Atta	ontex explor 807-937-50 chments Required	ation Ltd. 85 by the Mining	RR	N°1, bo	<u>x 7. site 1</u> ate Certified March 9,198	1	a pile	(Signiture)	ne work
J.Langelaar, Nor Dryden - ont. ph Table of Information/Atta	ontex explor 807-937-50 chments Required Specific in	ation Ltd, 85 by the Mining	, RR g Records	N°1, bo P er Other	x 7. site 1 ate Certified March 9,198 information (Com	1 8		(Signityre)	ne work
J.Langelaar, Nor Dryden – ont. ph Table of Information/Atta Type of Work	contex explor 807-937-50 chments Required Specific in	ation Ltd, 85 by the Mining	, RR g Recorde	er Other	<u>x 7. site 1</u> ate Certified March 9,198 information (Com	1 8		(Signiture) Millin s) Attachr	ne work
J.Langelaar, Nor Dryden - ont. ph Table of Information/Atta Type of Work Manual Work Shaft Sinking, Drifting or other Lateral Work	Contex explor Contex explor BO7-937-50 Chments Required Specific in	ation Ltd, 85 I by the Mining oformation per t Nil	g Record	er Other Nam	x 7. site 1 ate Certified March 9,198 information (Com es and addresses of all work /operated	1 38 f men who equipment	certified by Certified by por more type performed t, together ent	(Sign tyre) (Sign tyre) S) Attachr Work Sketc are required	he work
J.Langelaar, Nor Dryden - ont. ph Table of Information/Atta Type of Work Manual Work Shaft Sinking, Drifting or other Lateral Work Compressed air, other power driven or mechanical equip.	Type of equipment	ation Ltd, 85 I by the Mining nformation per t Nil	g Recordi	V ^o 1, b0 er Other Nam man with	x 7. site 1 ate Certified March 9,198 information (Com es and addresses of all work/operated dates and hours of	1 38 f men who equipment f employme	certified by certified by performed t, together ent.	(Signiture) (Signiture) (S) Attachr Work Skatc are required the location extent of w relation to t	he work
J.Langelaar, Nor Dryden - ont. ph Table of Information/Atta Type of Work Manual Work Shaft Sinking, Drifting or other Lateral Work Compressed air, other power driven or mechanical equip. Power Stripping	Type of equipment Note: Proof of activities	ation Ltd, 85 I by the Mining nformation per t Nil t t and amount exp ual cost must be recording.	pended, submitted	V°1, bo er Other Man with Nam toge	x 7, site 1 ate Certified March 9, 198 information (Con es and addresses of al work / operated dates and hours of the with dates wh	1 hmon to 2 of f men who equipment f employment f owner or en drilling/	certified by Certified by or more type performed t, together ent.	(Signiture) (Signiture) (Work Sketc are required the location extent of w relation to t nearest clair	he work he these to show ork in he n post.

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Ontario Ontario	Report of Work Geophysical, Geological, Geochemical and Expend	KEN	ORA	in Act	structions: - - Note:	Please type If number exceeds spar Only days "Expenditue in the "Expenditue	or print. of mining clai be on this form credits calcul res" section ma opend. Days C	ms traverst , attach a fis ated in th ay be entere r," column
Type of Surveyis!	· · · · · · · · · · · · · · · · · · ·		iwining	J AGI	Township	Do not use s or Area	naded areas bel	DW.
ASSAVING					Laval	TWP M-	3370	
Claim Holderis		- · ·				Prospector	Licence No.	
CAMRECO I	NC. 120 Adelaide	e Street	west 11	th Floor	····· ·	T 485	3	
Toronto -	Ontario M5H 1\	/1						
Gurvey Company				Date of Survey	(from & tu)	ד	otal Miles of Iin	e Cut
Norontex Explo	ration Ltd.			∣ _{□₀v} sµnnoger	γ 198 Ζ _{aγ ↓}	Mo. ; Yr.	n.a.	
3 Bedworth roa	d, RR Nº1, box 7.	site 1	1 Drvde	en - Ontario	P8N 2Y	4		
Ledits Requested per Ea	ch Claim in Columns at r	ight	Mining C	laims Traversed (List in nume	nical acqueit	ce)	
Special Provisions	Geophysical	Days per Claim	Protiv	brung Claim	Expend. Days CL	Pratix i	ung Claim Number	Expend Days C
For hirst survey.	Electromagnetic			070050				
Error 40 days. (This mick deschme cottonal		÷	- <u>K</u>	972250				
	Magnetometer	÷		972246		i i		
For each additional survi	Radiometric 29			972245				
Enter 20 cost of the same grad.	Other			972244				
Enter 20 day titur ea	ar gical	r		072225				
	Geochemical	<u> </u>		372233	+ {			
Mari Days	Geochemica			972236	┨────┥	r		
	Geophysical	Claim		972237				
Complete reverse side and enter (statts) here	- Electromagnetic	1						
	Magnetometer							
	Bachometric				 	-		
	i indiometric			• • • • • • • • • • • • • • • • • • • •	{{			ł
	Other							
	Geological							
	Geochemical					l [
Autorne Credus		Days per						
AL	.	Claim						
credits do not app	Electromagnetic			·				
to Airborne Surve	ys. Magnetometer							
	Radiometric							
xpenditures (excludes p	over trapping)				[]			
Type of Work Performed								
ASSAYING - 163 Performed op Claudist	<u>samples @ \$8°° p</u>	<u>er sam</u> pl	e			ŗ		
K 645074 64507	5 639105 and 6391	06						
K 043074,04307.					[. [1
acculation of Expenditions	Days Crudala	futal Conture						
			l	<u>.</u>	L]			
⁵ 163 x 8°° (1;	304)] (* [15] = [8	6.9				Total numb claims cove	er of mining red by this	7
ostructions Cot al Dove Creatity and cit	a concrete to the charmer	older's				report of w	prk,	/
choice. Enter number of	days creatision dam selecte	ed i	Lotal Dave	For Office Use O	nlγ	Muning Bucc	I Clar	
as courins at right			Recorded	S. Pare Recorded		internet green to		
Date .	Becomet transfor Agent (S	ignature)		Date Approved	as Recorded	Branch Dire	tor	
March_9,1988	phillie	Mar -	L			<u> </u>		
entitication Veritying R	eport of Vork					-		
I hereby certify that I ha	ve a perional and intimate kr	nowledge of t	he facts set f	orth in the Report of true	of Work anne:	ked here le , n	ving performed	the work
time and Postal Address of	Person Certifying							
.] [=	ngelaar - Noronte	ex Explo	ration	_td. Dryden	- Ontari	0	4	
	ingeraar	-		Date Certified	· · ·	Certified by	(Signature)	
	CITO 11			Mamah 0	1000	1	1, MIA -	•

OM FIRE ASSAYING LTD.

Phone: Bus. (807) 662-8 Res. (807) 662-3

AUL OKANSKI, Assayer Cochenour, Ontario POV 1LO

July 3, 1987.



... FIRE ASSAYING LTD. **BOX 253** COCHENOUR, ONTARIO POV 110

155 samples are MISTANGO'S; for results see drill logs. CUSTOM FIRE ASSAVING LTD. COCHENOUR, ONTARIO POV 110

ACC'T. FWD ON ACC'T. SOLD BY C.O.D AF CU app . an I۸ har 16 REDIFORM · 58523E

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Ministry of Northern Developm and Mines	nent of Work SIOUX	LOOKOUT.	1	nstructions	Supply re type of t For Geo-t of Work (Expendit	equired data o work to be re echnical work Geological, Ge ures)''.	n a separate fo corded (see n use form no. 1 ophysical, Geo	orm for eac table below) 362 "Repor chemical an
Name and Postal Address of F	lecorded Holder	Minin	g Act			Prospector's	Licence No.	
CAMRECO INC. 12	0 Adelaide Street w	vest. 11th	Floor			T4853.		
Toronto - Ontari	o M5H 1V1							
Summary of Work Perform	nance and Distribution of Cr	edits	Minin	Claim	- Marti	Mini	n Claim	Monte
280 days	Prefix Number	Days Cr. P	refix	Number	Days Cr.	Prefix	Number	Days Cr.
for Performance of the follow work. (Check one only)	ing P 972291	-40						
Manual Work	972293	40						
Shaft Sinking Drifting o	r 972286	40	N					
Compressed Air, other	972287	40	in az	······				
mechanical equip.	972249	40						
Power Stripping	972248	40				6.44		
Diamond or other Core drilling	972247							
Land Survey							1	
All the work was performed on Required Information eg:	n Mining Claim(s): K 645 type of equipment, Names,	074,645075 Addresses, etc	5.63910 (See Tat	5 and 639 le Below)	0106	LAVAL TO	WNSHIP!!	!!!!!!
a BALANCE OF 16 DRILL LOGS SUBMI "Mistango Consol	THES IS a portion of 3 DAYS (FEET) still TTED IN REPORT BY L idated Resources Li	unused. angelaar, mited, 198	dated I 37 Explo	43 days March 9,1 Dration p	988, er orogramn	, thus le htitled me, March	aving 1988"	
Diamond drilling	performed by ED FC ore stored at Camre	NTAINE DIA	MOND DI	RILLING L	TD. KEN	NORA Onta	rio.	
			Date	of Report		Recorded Hol	per or Agent (Signature)
L			Ma	arch 9,19	88	100	miller	<u> </u>
Certification Verifying Rep	oort of Work				Nork			
I hereby certify that I have or witnessed same during ar	a personal and intimate knowled ad/or after its completion and th	e annexed report	et forth in t ; is true, 	ne meport of V	vork annexe	a phate port	ng pertormed	the work
Name and Postal Address of P	erson Certifying	, , <u> </u>				111	•	
J.Langelaar, Nor	ontex exploration L	td. RR N ^c	1. DOX	7. Site	11	Certified by (Signiture)	
Uryaen – ont. ph	: 807-937-5085		Má	arch 9,19	88	, Khm	prica	\leq
Table of Information/Atta	chments Required by the Mi	ning Recorder		· · · · · · ·		1-	<u> </u>	
Type of Work	Specific information	per type	Other in	tormation (Co	mmon to 2	or more types	Attack	nments
Manual Work Shaft Sinking, Drifting or other Lateral Work	Nii		Names	and addresses work / operate	of men who ad equipmen	o performed ht, together	Work Sket	tch: these ad to show
Compressed air, other power driven or mechanical equip.	Type of equipment		- with da	tes and hours	of employn	n en t.	the location extent of relation to	on and work in the
Power Stripping	Type of equipment and amoun Note: Proof of actual cost mus within 30 days of recording.	nt expended. st be submitted	Names	and addresses	of owner or	operator /stripping	nearest cla	um post.
Diamond or other core	Signed core log showing; foota	ige, diameter of	done.				Work Sket	tch (as

Ministry of Northern Developm and Mines	Report Instructions Supply required data on as type of work to be record Nopment of Work KENORA. For Geo-technical work use for Work (Geological, Geophy Mining Act Expenditures)".							a on a sej e recorde ork use fo , Geophysi	parate form for eac d (see table below rm no. 1362 "Repo cal, Geochemical an
Name and Postal Address of MISTANGO CONS	Recorded Holder	ansforred	to CAMRI	TO IN	 ۱۲		Prospecto	r's Licenc 53	e No.
120 Adelaide St	reet West,	11th Floo	r, Toror	nto -	Ontario M5H	1V1 p	h: 416	-364-6	395
Total Work Days Cr. claimed		ning Claim	Work	N	Aining Claim	Work	M	lining Clai	mWork
for Performance of the follow	Prefix	630017	Bays Cr.		630050	RQ	Pretix V	63910	6 89
work, (Check one only)		630047	80	<u> </u>	630060	80	N.	63910	7 89
Manual Work		630051	80		630061	80	italie de le Notestor	63010	8 89
Shaft Sinking Drifting of other Lateral Work.		039031	09		620066	09		62011	1 00
Compressed Air, other Power driven or		639052	89		039000	09		62011	0 00
Power Stripping		639055	89		639067	89		63911	2 89
Diamond or other Core	**	639056	89		639108	89		63911	3 89
drilling	.e 🔅 –	639057	89		639104	89		63912	1 89
	405 . 4	639058	89	ويتحد الله أحا	639105	89	al . A Chai		l
All the work was performed o	on Mining Claim(^{s):} K645074	,645075,	63910	5 & 639106				
Required Information eg:	type of equip	ment, Names, A	ddresses, e	tc. (See	Table Below)				
DRILL LOGS SUBMI "Mistango Consol TOTAL CREDITS US	TTED IN RE idated Res ED FOR ABO	Kenora PORT BY J. ources Lim VE CLAIMS	- Ontar LANGELAA ited, 19 = 2047!	no ; R, da 187 Ex BALA	core size B ted March 9 ploration P NCE OF 443 (.ų. cor ,1988, rogramm days to	e store entitle e, Marc be app	ed at M ed ch 1984 olied e	Lamreco ine site! B" elsewhere!
Certification Verifying Rec	ort of Work				March 9, 19	988	-14	ymp	Man-
l hereby certify that I have Or witnessed same during ar	a personal and in nd/or after its cor	timate knowledge	e of the facts annexed repo	set forth ort is true	in the Report of W	lork annexe	anono p	wing pert	ormed the work
Name and Postal Address of Po J.Langelaar, Nord	erson Certifying Ontex Expl	oration Ltd	d. RR Nº	1, b	ox 7, site 1	1, <u>3 Be</u>	dworth	Road	
Dryden - Ontario	<u>: PH: 807-</u>	937-5085		1	March 9, 19	988	TUC	UM4	JOL C
Table of Information/Atta	chments Requi	red by the Mini	ng Recorde	ir 					
Type of Work	Specif	ic information pe	r type	Oth	er information (Co	mmon to 2	or more typ	DES)	Attachments
Manual Work Shaft Sinking, Drifting or other Lateral Work		Nil		Na	mes and addresses o nual work/operate	of men who d equipmen	V performed t, together	Wo	rk Sketch: these
Compressed air, other power driven or mechanical equip.	Type of equipn	nent		win	h dates and hours o	of employm	ent.	the axt reia	location and ent of work in ation to the
Power Stripping	Type of equipn Note: Proof of within 30 days	nent and amount actual cost must of recording.	expended. be submitted	Na	mes and addresses o ether with dates wi	of owner or hen drilling/	operator stripping	nea	rest ciaim post.
Diamond or other core	Signed core log	showing; footage	, diameter of	eter of done. Work Sketch (as					





