

63.4789



52J02SE8665 63.4789 SQUAW LAKE

010

REPORT ON
DIAMOND DRILLING PROGRAM
STURGEON LAKE PROPERTY
ONTARIO

for

MISTANGO CONSOLIDATED RESOURCES LTD.

Toronto, Ontario
April, 1987

J.L. Webster, B.Sc.
MPH Consulting Limited

OM 86-3-P-236



52J02SE8665 63.4789 SQUAW LAKE

010C

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1.0 INTRODUCTION AND SUMMARY

A three hole, 974 ft program of BQ core drilling was completed on the Sturgeon Lake property of Mistango Consolidated Resources Ltd. during February of 1987. The property is located in the northeast arm of Sturgeon Lake in northwestern Ontario. Drilling was carried out by Kenora Drilling, a subsidiary of Morrisette Drilling, of Kenora, Ontario with MPH Consulting Limited of Toronto, Ontario providing project management.

The target was the eastern extension of the Rainbow Island gold-bearing zone intersected on the Mistango property during the 1986 drill program in hole M-86-8. The Rainbow Island occurrence, located just east of claim Pa590687 on Rainbow Island, was first discovered in 1982. During the 1980's a syndicated group attempted to open-cut mine, hand-sort and concentrate the rich Rainbow Island vein with a small (5 ton) mill.

The 1987 Mistango drill program has extended the Rainbow Island zone some 400 ft east of previous hole M-86-8. Mineralization consists of small (2-5 cm) blue quartz veins with an associated carbonate halo containing 1-2% fine-grained disseminations and small clots of pyrite and pyrrhotite. The best gold values are associated with a chlorite/carbonate/quartz breccia zone within mafic to intermediate metavolcanic flows.

The breccia zone becomes progressively weaker and narrower east of Rainbow Island. The best intersection during the present campaign on this structure was in hole M-87-1 which returned a 5.0 ft core length which averaged 0.09 oz Au/t.

More work will be required on Mistango's Sturgeon Lake property to properly assess the economic potential of the Rainbow Island zone and other known mineral occurrences. Recommendations are presented for a program consisting of 1,500 ft of diamond drilling at an estimated cost of \$98,000.

2.0 PROPERTY, LOCATION, ACCESS AND HISTORY

The Mistango property consists of 43 contiguous unpatented mining claims in the Patricia district of northwestern Ontario. The claims and their recording dates are listed below:

<u>Claim Nos.</u>	<u>Recording Date</u>	<u>Claim Nos.</u>	<u>Recording Date</u>
PA590673	December 24, 1982	PA612431	January 5, 1983
590674	December 24, 1982	612432	January 5, 1983
590675	December 24, 1982	844829	March 4, 1985
590676	December 24, 1982	844830	March 4, 1985
590677	December 24, 1982	844831	March 4, 1985
590678	December 24, 1982	844832	March 4, 1985
590680	December 24, 1982	844833	March 4, 1985
590681	December 24, 1982	844834	March 4, 1985
590682	December 24, 1982	844835	March 4, 1985
590683	December 24, 1982	844845	March 4, 1985
590684	December 24, 1982	844846	March 4, 1985
590687	December 24, 1982	844847	March 4, 1985
612420	December 24, 1982	844854	March 4, 1985
612421	December 24, 1982	844855	March 4, 1985
612423	January 5, 1983	844856	March 4, 1985
612424	January 5, 1983	844857	March 4, 1985
612425	January 5, 1983	844858	March 4, 1985
612426	January 5, 1983	844859	March 4, 1985
612427	January 5, 1983	844860	March 4, 1985
612428	January 5, 1983	844861	March 4, 1985
612429	January 5, 1983	896056	August 12, 1986
612430	January 5, 1983		

The property is located about 70 miles north of Ignace, Ontario on the northeast arm of Sturgeon Lake. The claim group is accessible from Ignace via highway 599 north to the Six Mile Lake gravel logging road. A truck road branches eastwards to King Bay (the last two miles is by a tractor road). In winter, the claim group is accessible by tractor or snowmobile; in the summer the property is accessible by boat.

History and results of previous work on the property are summarized in a report by C. Kuryliw for Mistango dated July, 1986.

A key aspect of the previous work was the discovery of the eastern extension of the Rainbow Island zone intersected in hole M-86-8. The best intersection in that hole returned 0.05 to 0.18 oz Au/t over 2 inches to 3 inches vein widths.

3.0 DIAMOND DRILLING PROGRAM - 1987

Appendix I presents the logs and sections for holes M-87-1 to 3 along with the assay certificate and a copy of the Report of Work.

Drilling is summarized as follows:

<u>Hole</u>	<u>Azimuth</u>	<u>Dip</u>	<u>Length</u>
M-87-1	355°	-50°	308 ft
M-87-2	355°	-50°	328 ft
M-87-3	035°	-50°	338 ft

Hole M-87-1 was drilled northwards at a -50° dip to test for the easterly extension of the Rainbow Island breccia-vein zone intersected during the 1986 drill program in hole M-86-8. The hole collared in a coarse-grained gabbro intruded by many small feldspar (quartz) porphyry dykes and continued in this to 95.0 ft. A massive mafic to intermediate metavolcanic flow which was persistently cut by many fine quartz/carbonate fractures at various angles was intersected from 95.0 to 281.2 ft. The section from 224 to 263.5 ft contained a strongly chloritized, brecciated intermediate to mafic flow with a quartz/calcite matrix, 1-2% pyrite and pyrrhotite mineralization associated with fine (2-5 cm) blue quartz veins. An only assay of any consequence was a 5 ft section from 246 to 251 ft which averaged 0.09 oz Au/t. An underlying intrusive in hole 1 consisted of a greenish-grey feldspar porphyry with no mineralization of interest.

Hole M-87-2 was drilled 100 ft east of hole M-87-1 northwards at a -50° dip again to test for the eastern extension of the Rainbow Island zone. After passing through the gabbro and several feldspar (quartz) porphyry dykes, the above chlorite-quartz-carbonate breccia zone was intersected from 198.5 to 220.0 ft within the mafic to intermediate metavolcanic flows. Mineralization was less well developed in this hole although the

blue quartz veins were present. There were no assay values of consequence.

Hole M-87-3 was drilled from the same set-up as hole M-87-2 but at an azimuth of 035°, to accomodate a sharp increase in water depth beginning 10 ft to the east of M87-2 set up. Again, similar lithologies were intersected. The chlorite/quartz/carbonate breccia zone was intersected from 211.0 to 222.0 ft. Mineralization was poorly developed and there were no significant assays.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The 1987 drill program was successful in that the Rainbow Island mineralized zone was intersected in all three 1987 holes. This indicates a total strike length of 1,800 ft extending from the known showing on Rainbow Island. The mineralized zone, however, becomes increasingly narrower to the east and carries only trace gold. The best drill intersections were encountered in hole M-87-1 which yielded 0.09 oz Au/t over a 5.0 ft core length.

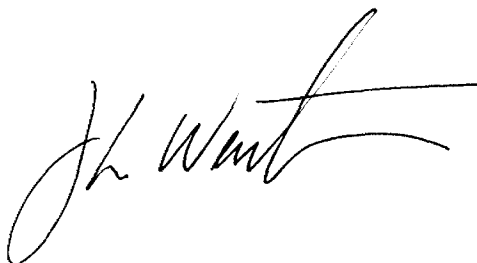
Three other zones of interest on the property merit further investigation by diamond drilling. They are as follows:

1. the eastern extension of the Iron Duke quartz vein, claim Pa590673;
2. the northeasterly extension of the Steep Rock Hotel Point zone, claim Pa590680; and
3. the copper-bearing, gold-silver zone south of Rainbow Island (claim Pa 613421).

A total of 1,500 ft of drilling is recommended on the 3 zones.

The cost for the drill program will be \$98,000 inclusive of all drafting and reporting.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "J.L. Webster". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

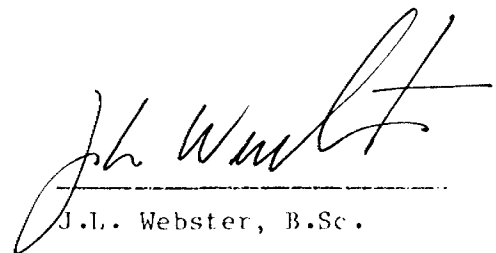
J.L. Webster, B.Sc.

CERTIFICATE OF QUALIFICATIONS AND LETTER OF CONSENT

I, J.L. Webster, of Toronto, Ontario, do hereby certify that:

1. I obtained a B.Sc. (Hon.) degree in Geology from McMaster University in 1981.
2. I have based my conclusions and recommendations contained in this report on my experience and knowledge of the geology of the area and on results of the field work carried out on the property under my supervision during the months of April to June, 1986.
3. I have no interest, either directly or indirectly in Mistango Consolidated Resources Ltd. or the property under discussion herein, nor do I expect to receive or acquire any such interest.

Toronto, Ontario
April, 1987



J.L. Webster, B.Sc.

Pa 590684

1 590687

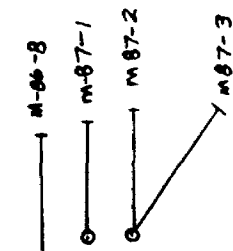
RAINBOW ISLAND SHEAR ZONE

Pa 590687

RAINBOW ISLAND

TB 34310

WP " 2.3
700' N
Pa 590687
Pa 590684



STURGEON LAKE

2 590687

MISTANCO CONSOLIDATED RES.

DRILL PLAN 1987

FEBRUARY, 20, 1987

C981

SCALE 1:400 FE

SQUAW LAKE MAP SHEET (63M)

1" = 400'

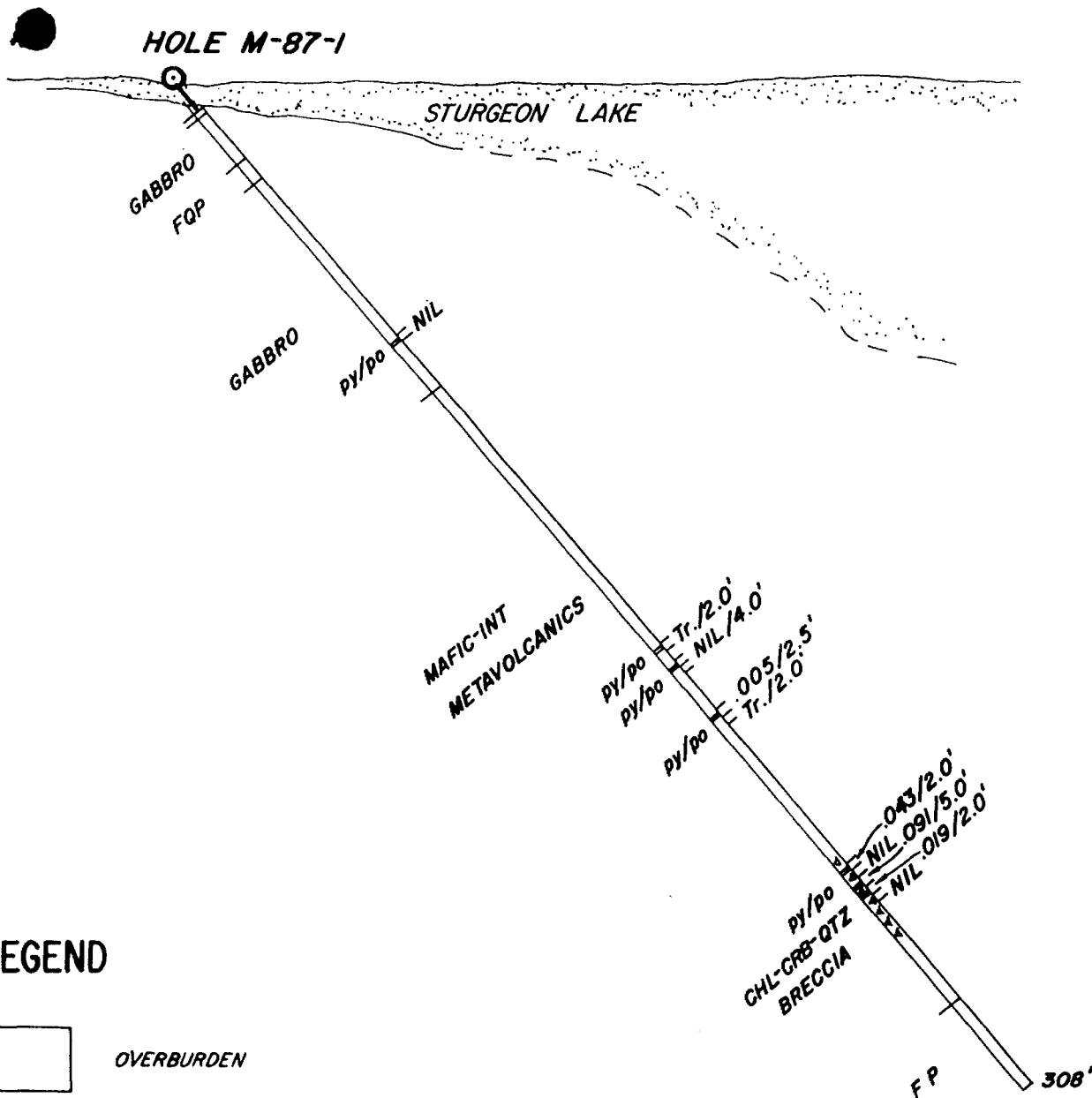
PATRICIA ... DIV.
R
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V
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D
 MAR - 5 1987
 A.M. 7:8 9:10 11:12 1:19 3:41 5:6
 P.M.

APPENDIX I


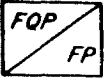


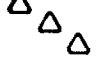



Drill Logs and Sections


FROM (ft)	TO (ft)	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	PPB Au	oz/T Au				
24.5	29.5	FELDSPAR (QUARTZ) PORPHYRY - same as unit 7.8 to 8.8 - upper and lower contacts @ 85° and 75° to CA, respectively - few fine qtz/carb fractures @ various angles to CA - minor sulphide mineralization as fg disseminations of py/po throughout										
29.5	95.0	GABBRO - same as unit 6.0 to 7.8 79.5-80.5: 2 cm blue/grey qtz vein with ct/qtz minor chl parallel fractures on either side, po/py small clots associated with vein (1%)	3363	79.5	80.5	1.0	5					
95.0	281.2	MASSIVE MAFIC-INTERMEDIATE METAVOLCANIC - vfg to mfg some mcg sections, greenish grey to dark green-black massive flow - upper contact with gabbro is not well defined lower contact @ 45° to CA - entire unit is cut by many fine qtz/carb fractures @ various angles to CA predominantly @ 20° to CA fractures offset earlier qtz veins and small porphyry veins (ranging 1 cm to 5 cm) - minor chl altu often as fine slips or blebs associated with qtz veins - 1 to 2% sulphide mineralization as fg py/po disseminations and clots associated with porphyry veins and silicifications										
		174 - 176: vfg basalt, cut by silicified hematized porphyry with a blue/grey qtz vein @ upper contact (1 cm to 2 cm wide), py/po mineralization (1-2%) as fg clots	3364	174	176	2	21					
		179 - 181: same as above	3365	179	181	2	11					
		181 - 183: basaltic flow is porphyritized with a 5 cm blue/grey qtz vein 1 cm to 2 cm wide minor fg py/po	3366	181	183	2	5					
		194 - 198: same as 174 to 176	3367	194	196.5	2.5	176					
		224-263.5: fg to vfg strongly chlortized brecciated intermediate to mafic flow with a qtz/ct matrix, 1-2% py/po mineralization as fg disseminations along fragment edges; both upper/lower contacts @ 40° to CA	3368	196.5	198	1.5	27					
			3369	241.5	243.5	2	1669	.435				
			3370	243.5	246	2.5	9					
			3371	246	248.5	2.5	2521	.085				
			3372	248.5	251	2.5	3290	.096				
			3373	251	253	2	646					

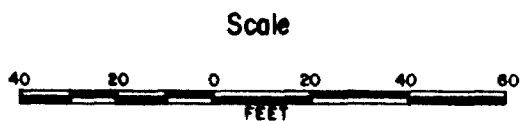
LOOKING NORTH




LEGEND

-  OVERBURDEN
-  FELDSPAR QUARTZ PORPHYRY (FQP)
FELDSPAR PORPHYRY (FP)
-  GABBRO
-  MAFIC-INTERMEDIATE METAVOLCANIC FLOWS
-  CHLORITE-CARBONATE-QUARTZ BRECCIA ZONE
-  QUARTZ (BLUE) VEIN
-  PYRITE
-  PYRRHOTITE

 .019/2.0 ASSAY Au oz/1 /sample width

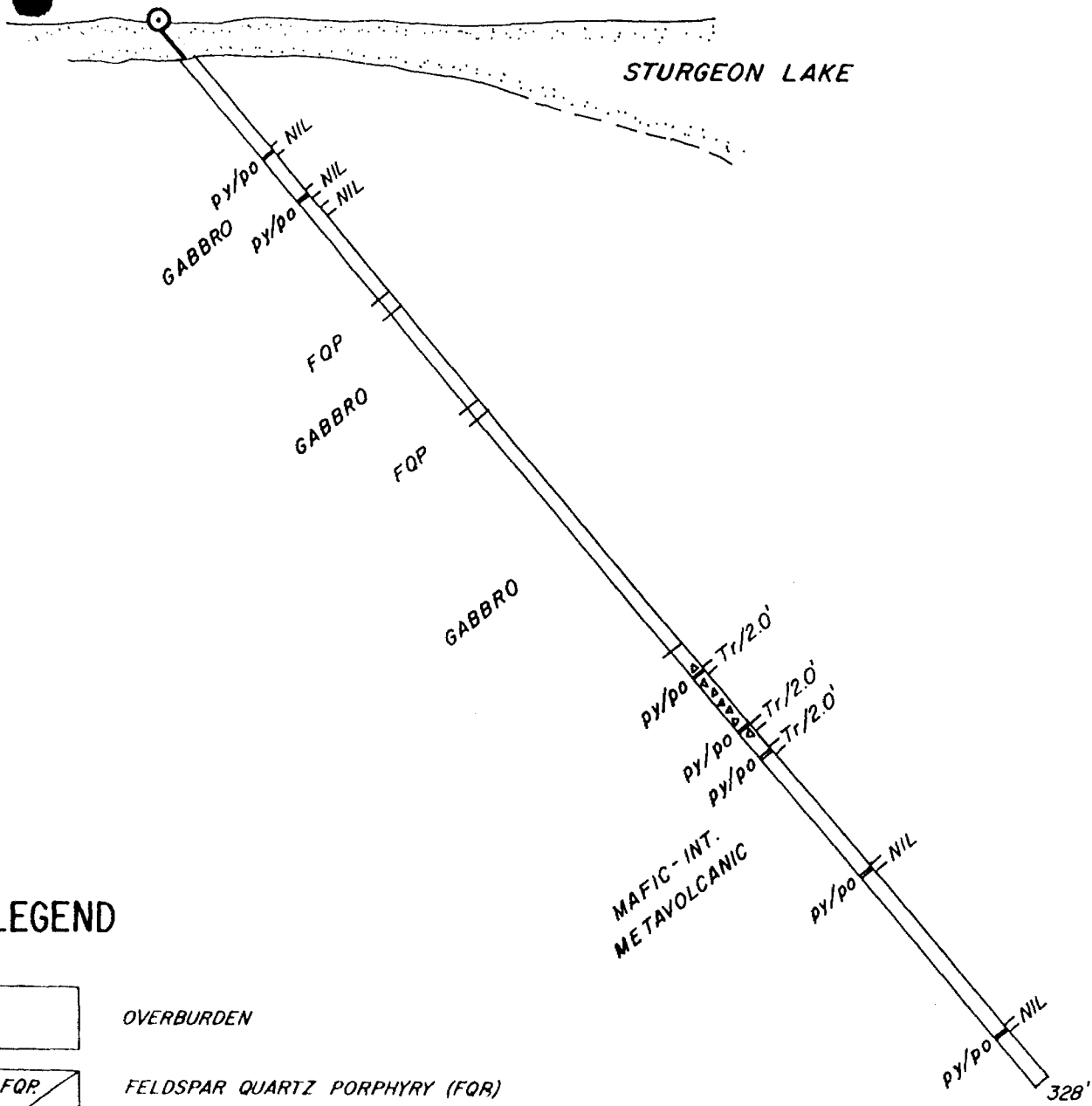


MISTANGO CONSOLIDATED RESOURCES LTD.	
STURGEON LAKE PROPERTY	
HOLE M-87-1	
Project No. G-001	By J. WEBSTER
Scale: 1" = 40'	Drawn: A & N
Drawing No. S-1	Date: MARCH / 87
 MPH Consulting Limited	

LOOKING NORTH

HOLE M-87-2

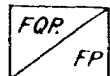
STURGEON LAKE



LEGEND



OVERBURDEN



FELDSPAR QUARTZ PORPHYRY (FQR)
FELDSPAR PORPHYRY (FP)



GABBRO



MAFIC-INTERMEDIATE METAVOLCANIC
FLOWS



CHLORITE-CARBONATE-QUARTZ
BRECCIA ZONE



QUARTZ (BLUE) VEIN

py
po

PYRITE
PYRRHOTITE

0.019/2.0 ASSAY Au oz/1 /sample width

Scale



MISTANGO CONSOLIDATED
RESOURCES LTD.

STURGEON LAKE PROPERTY

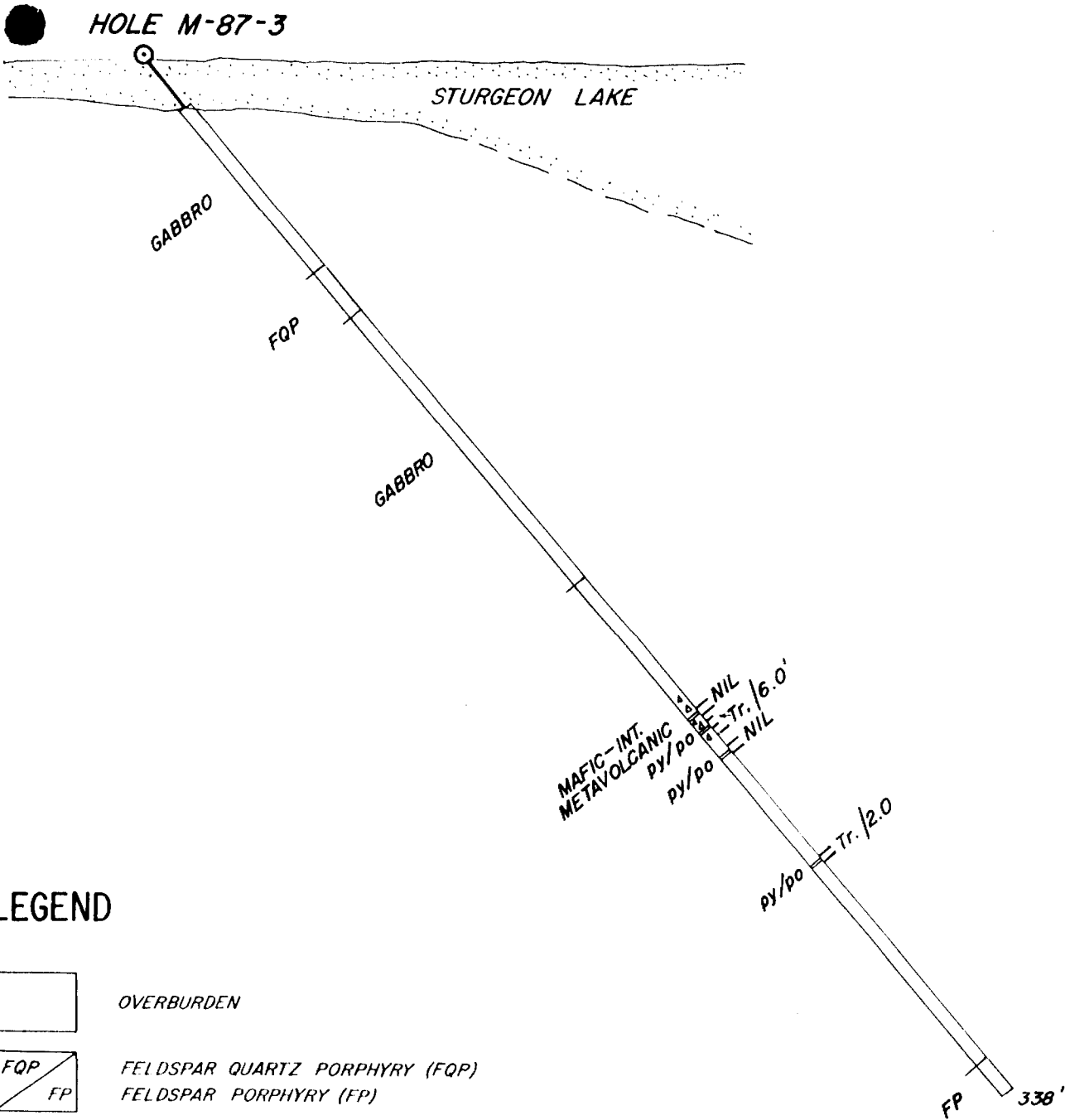
HOLE M-87-2

Project No. C-881	By J. WEBSTER
Scale: 1:40	Drawn: A & N
Drawing No. S-2	Date: MARCH /87


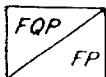





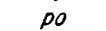



MPH Consulting Limited

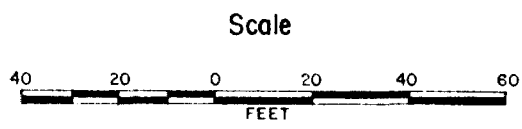
LOOKING NORTH EAST




LEGEND

-  OVERBURDEN
-  FELDSPAR QUARTZ PORPHYRY (FQP)
FELDSPAR PORPHYRY (FP)
-  GABBRO
-  MAFIC-INTERMEDIATE METAVOLCANIC FLOWS
-  CHLORITE-CARBONATE-QUARTZ BRECCIA ZONE
-  QUARTZ (BLUE) VEIN
-  PYRITE
-  PYRRHOTITE

 .019/2.0 ASSAY Au oz/t /sample width



MISTANGO CONSOLIDATED RESOURCES LTD.	
STURGEON LAKE PROPERTY	
HOLE M-87-3	
Project No. C-981	By: J. WEBSTER
Scale: 1" = 40'	Drawn: A & N
Drawing No: S-3	Date: MARCH / 87
 MPH Consulting Limited	

APPENDIX II

Assay Certificates



ASSAYERS (ONTARIO) LIMITED

33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MPH-15/6004 Date: February 27, 1987

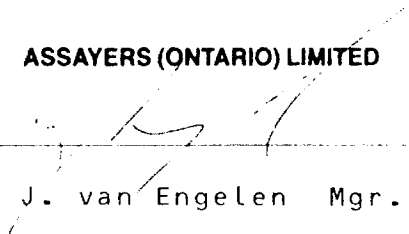
Received 26 Samples of Drill Core

Submitted by MPH Consulting Ltd. Att'n: Ms. J. Webster

Project: C-981

Sample No.	Au ppb	oz/ton	Sample No.	Au ppb
3363	<5		3383	23
3364	21		3384	69
3365	11		3385	105
3366	<5		3386	63
3367	176		3387	<5
3368	27		3388	93
3369	1669	.043		
3370	9			
3371	2521	.085		
3372	3290	.096		
3373	646			
3374	43			
3375	59			
3376	253			
3377	<5			
3378	<5			
3379	9			
3380	<5			
3381	<5			
3382	<5			

ASSAYERS (ONTARIO) LIMITED

Per 

J. van Engelen Mgr.

APPENDIX III

Report of Work



Ministry of
Northern Affairs
and Mines

Report
of Work

#87-52

SQUAW LAKE

Mining Act

Instructions - Supply required data on a separate form for each
type of work to be recorded (see table below).
- For Geo-technical work use form no. 1362 "Report
of Work (Geological, Geophysical, Geochemical and
Expenditures)".

Name and Address of Recorded Holder: **MISTANGO CONSOLIDATED RESOURCES LTD**
137 HURON HTS. DRIVE, NEW MARKET, ONTARIO, L34 4Z6
Prospector's Licence No: **T 1561**

Summary of Work Performance and Distribution of Credits **Squaw Lake G.3140**

Total Work Days Cr. claimed 97A	Mining Claim			Mining Claim			Mining Claim		
	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.
For Performance of the following work. (Check one only) <input type="checkbox"/> Manual Work <input type="checkbox"/> Shaft Sinking, Drifting or other Lateral Work <input type="checkbox"/> Compressed Air, other Power driven or mechanical equip <input type="checkbox"/> Power Stripping <input checked="" type="checkbox"/> Diamond or other Core drilling <input type="checkbox"/> Land Survey		844827	40	Pa	844846	40	Pa	844860	40
		844830	"		844847	"		844861	23
		844831	"		844854	"		896656	20
		844832	"		844855	"		590687	20
		844833	"		844856	"		590683	20
		844834	"		844857	"		590675	60
		844835	40		844858	"		590673	60
	844845	40		844859	40		590674	60	

All the work was performed on Mining Claim(s) **590687** **Pa 590676, 31**

Required Information: eg. type of equipment, Names, Addresses, etc. (See Table Below)

DIAMOND DRILL CO.; KENORA DRILLING CO., KENORA, ONTARIO
 DRILLING PERIOD; JAN. 20, 1987 - FEB. 13, 1987
 3 DRILL HOLES; 60 CORE SIZE, TOTAL FOOTAGE 97A'
 CORE STORED; KENORA DRILL CORE LIBRARY, KENORA ONT.
 DRILL HOLES
 M-87-1 - 50° N35SW, DEPTH 308'
 M-87-2 - 50° N35SW, DEPTH 320'
 M-87-3 - 50° N35E, DEPTH 338'

PATRICIA MINING DIV. RECEIVED
 MAR - 3 1987
 4 M. P.M.
 7 8 9 10 11 12 1 2 3 4 5 6

Pa 590673
 FEB 27/87
 MAR 27 1987

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or checked same during and thereafter, and the annexed report is true.

Name and Postal Address of Person Verifying:
J. WEBSITZ **MPH CONSULTING LTD** **2406 - 170**
ADELAIDE ST W, TORONTO, ONT
 Date of Rec: **FEB 27/87**
 Certificate No: **J. WEBSITZ**

Table of Information - Attachments Required by the Mining Recorder

Type of Work	Type of Information or Data	Information or Data to be Submitted	Other Remarks
Manual Work			
Shaft Sinking, Drifting, or other Lateral Work		Names and addresses of men who performed manual work operated equipment, together with dates and hours of employment.	Work Sketch: These are required to stay in the station and state of work in relation to the respective claim.
Compressed air, other power driven or mechanical equip	Type of equipment		
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.	Names and addresses of owner or operator together with dates when drilling stripping done.	
Diamond or other core drilling	Signed core log showing footage, diameter of core, number and angles of holes.		Work Sketch: See above in duplicate.
Land Survey	Name and address of Ontario land surveyor.	Nil	Nil

#63. 4789

OM 86-3-P-236

THIS SUBMITTAL CONSISTED OF VARIOUS REPORTS, SOME OF WHICH HAVE BEEN CULLED FROM THIS FILE. THE CULLED MATERIAL HAD BEEN PREVIOUSLY SUBMITTED UNDER THE FOLLOWING RECORD SERIES (THE DOCUMENTS CAN BE VIEWED IN THESE SERIES):

① Report On Diamond Drilling, Mistango → See Main Office File: LAVAL TP.
Consolidated Resources Ltd., Holes M-87-1 D.D.R. # 16
to M-87-3, April/87 Report of Work #32 for 1987 (Kenora)

② This report by Mistango had the → Comparable logs found in Main
logs submitted for assessment credits. Office File: SQUAW LAKE D.D.R. #38,
The assessment submission did not include 52 J/02 SE-0063-A1.
a summary report, assays or x-sections, Report of Work #52 for 1987 (Patricia
as did this OMEP submission. Therefore Mining Div.)
for the sake of file continuity, the logs
have been left with the report and
placed on file under the 63. series
number written above.