AFO # 63,3138



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REPORT ON EXPLORATION ACTIVITIES

September to December, 1973

CONSOLIDATED MARCUS GOLD MINES LIMITED

CLAIM GROUP: DOME - BALMER TOWNSHIPS

RED LAKE MINING DIVISION

PATRICIA PORTION

EXPLORATION ASSISTANCE AGREEMENT R.L. 28

bу

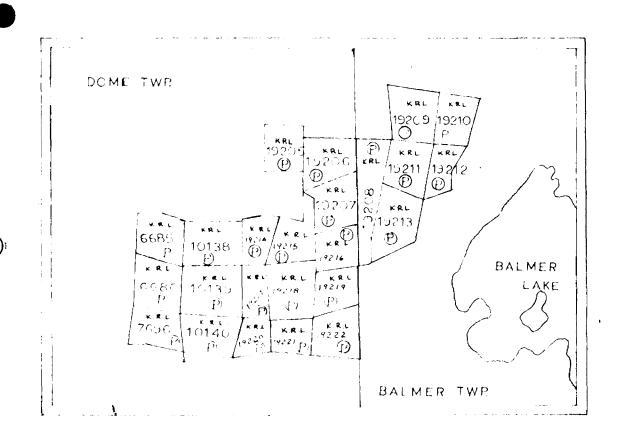
L. C. CHASTKO

for

CONSOLIDATED MARCUS GOLD MINES LIMITED

L. C, Chastko Chief Geologist

Cochenour, Ontario December 1973



CLAIM LOCATION SKETCH

DOME TOWNSHIP AREA

CMA

BALMER LAKE TOWNSHIP AREA

RED LAKE MINING' DIVISION

O.D.M. MAPS

M-2156 DOME TWP

M-2137 BALMER TWR

SCALE 1 INCH = 2640

INTRODUCTION

An Airborne Input Electro Magnetic survey conducted over the claim group area indicated the presence of anomalous electro-magnetic conductivity.

A reference grid was established covering the anomalous area. A ground H.L.E.M. survey and a magnetometric survey were conducted on the grid area to locate and evaluate the Airborne Input E.M. responses.

Three ground H.L.E.M. conductors along two separate zones.

Both zones were tested by diamond drilling.

No mineralization of immediate economic importance or significance was intersected.

This report was compiled to summarize exploration activities conducted on the Marcus Property during 1973 which qualifies for a reimbursement of one-third of direct costs incurred in exploration as provided for under the Ministry of Natural Resources Exploration Assistance Program - Agreement R.L.28.

DESCRIPTION, LOCATION & ACCESS TO PROPERTY

The Marcus Claim Group consists of twenty-four (24) patented mining claims all located in the East-Central and West-Central portions of Dome and Balmer Townships respectively. The claim numbers are:s

K.R.L. 6685	19205	19211	19217
6686	19206	19212	19218
7696	19207	19213	19219
10138	19208	19214	19220
10139	19209	19215	19221
10140	19210	19216	19222

Access to the claim group from Red Lake is via Highway 125 and the recently constructed road to resources leading north from Highway 125. The claim block southern boundary is approximately one-half mile north of the road to resources and Highway 125 junction.

PROPERTY OWNERSHIP

The twenty-four (24) claims listed are all recorded in the name of Consolidated Marcus Gold Mines Limited.

GENERAL GEDLOGY

The general geology has been covered in several Ontario Department of Mines Reports and Maps and several unpublished Company reports. The Ontario Department of Mines publications being:

Ontario Department of Mines Geological Report 45, Geology of Dome Township by S. A. Ferguson, 1966, and accompanying map No. 2074, Dome Township, on a scale of one inch to 1000 feet.

Ontario Department of Mines Sixtieth Annual Report, Vol. LX, Part X; Geology of Balmer Township by E. O. Chisholm, 1951, and accompanying map No. 1951-3, Township of Balmer, at a scale of one inch to 1000 feet.

Ontario Department of Mines Forty-ninth Annual Report, Vol. XLIX, Part II; Geology and Mineral Deposits of the Red Lake Area by H. C. Harwood, 1944, and accompanying map No. 496, Geology of the Red Lake Area (east half) at a scale of one inch to one-half mile.

The general geology of the claim group area has been discussed in some length in the Ontario Department of Mines Report 45, Geology of Dome Township by S. A. Ferguson; therefore will not be discussed at length in this report.

The property is essentially underlain by W.N.W. trending steeply dipping "Keewatin" type lavas interbedded with thin bands of sediments.

PREVIOUS WORK

At least three stages of mineral exploration primarily for gold were conducted on the property since the mid-forties. One of these involved surface diamond drilling and two involved surface diamond drilling and underground exploration.

A resume of previous work is provided in the Ontario Department of Mines Report 45, Geology of Dome Township by S. A. Ferguson; therefore further discussion on this topic will be dispensed with.

GEOPHYSICAL SURVEY DETAILS

A reference grid totalling 8.2 line miles was established covering two separate Airborne Input E.M. trends.

A Geonics E.M. 17 Horizontal Loop Unit, operating at a frequency of 1600 Hz, and a current output of 25 at-m² was used to conduct the ground survey. A soil separation of 300 feet was used. In phase and quadrature readings were recorded at 100 foot intervals except in suspected anamolous areas where readings were recorded at 50 foot intervals.

A Jalander Flexgate Magnetometer, Model #5785, was employed in conducting the magnetometer survey. Readings were recorded at 50 foot intervals. As the grid was relatively small and the magnetometer survey was completed in less than one day, no diurnal variation corrections were made.

For more specific instrument details refer to manufacturer's brochure attached, following this report.

PRESENTATION OF RESULTS

The ground H.L.E.M. and Magnetometer survey results are presented on enclosed plans at a scale of one inch to 300 feet.

DISCUSSION OF RESULTS

The two indicated Airborne Input E.M. trends were located and verified on the ground by the H.L.E.M. survey. The magnetometer survey provided additional data for evaluating the ground responses. The three ground E.M. responses have been labelled Al, A2 and B to facilitate discussions.

ZONE Al:

Zone Al is located on line 1+00 W and 3+00 W approximately 500 feet north of the base line. Strike length of this conductive trend is 200 feet plus and is open to the west. The dip of the conductor is considered to be near vertical. The H.L.E.M. response (in phase-quadrature -35 -13) indicated the presence of a strong electro-magnetic conductor. The magnetometer survey indicated a relatively high flanking magnetic response of up to 1800 gammas located directly to the south of the H.L.E.M. response. The magnetic response on line 3+00 W, at the point of drilling, was approximately 900 gammas.

Both the H.L.E.M. and the Magnetic, trends terminate

abruptly between line 1+00 E and 1+00 W.

Diamond drill hole M-73-1 tested this conductive trend on line 3+00 W. The cause of the anomalous conductivity wasfound to be due to relatively narrow iron formation bands containing minor bands of magnetite and pyrite but in sufficient quantities to be conductive and produce a magnetic response.

ZONE AZ:

Zone A2 is on strike of Zone Al and is located on lines 11+00 E, 13+00 E, and 15+00 E, approximately 600 feet north of the base line. Strike length is 400 feet plus and is open to the east. The dip of the conductor is considered to be nearly vertical. Virtually no magnetic response was obtained associated with this conductor. This conductor is considerably weaker than Al. An approximate 1000 foot conductivity break exists between Al and A2. Cause is believed to be a similar thin band of sediments as Al only lacking magnetite. This conductor was not tested and is considered a low priority target.

Discussion of Results: (continued)

ZONE B:

Zone B is located along the southern-most portion of the grid. Complete crossovers were not made by the survey but enough coverage was obtained to drill. Strike length is 2000 feet plus and is open to the east and west. Although information is sketchy there appears considerable change in conductivity along strike. Indicated conductivity widths are up to at least 100 feet wide in places. There is no obvious magnetic corelation with the E.M. conductor. This Zone was tested at one of its strongest points where the in phase and out of phase responses are in the order of -3 -8.

The cause of the electro-magnetic response was found to be due to an argillaceous unit which contained massive sections of pyrite.

CONCLUSIONS

Both Airborne Input E.M. trends were located on the ground by a H.L.E.M. survey. Both trends were verified and tested by diamond drilling.

No mineralization of economic significance or importance was encountered.

Respectfully submitted

L.C.Chastko, Chief Geologist, Cochenour, Ontario, December, 1973.

AATITUDE 13+00 East STARTED	COCHENOU	R WILLA	NS GOLD MINES LIM RING Grid N 30°	$\frac{MTED}{E}$ D.D.HOLE NO. $M - 73 - 2$
DEPARTURE 0+50 South COMPLETED		DIP	KING	LOCATION Marcus Property K.R.L. 19213
ELEVATION H.D.	V.D.	DEP		FILE
GENERAL GEOLOGY	OUNCES	NO.	FOOTAGE	ECONOMIC GEOLOGY
GDWDWAL GDODOGI	+	NO.	TOOTAGE	
0.0 - 23.0 Casing		ļ		ACID TESTS: 150° 58°
23.0 - 34.5 Mafic Meta Volcanics, Andesid	ie .			300 ° 55°
dark green, fine grained, masiave				450 ° 53 °
except for 2-3% quartz filled fractu	res			
34.5 - 36.0 Iron Formation, interbanded	Tr	M-55	34.5 - 35.0	Iron formation
30% siltstone, 20% chert,				
30% greywacke, 15% Po, 1-3% magnetit	te			
finely well banded at 60-70° to core	e axis			
36.0 - 76.0 Mafic Meta Volcanics as				
described 23.0=34.5				
37.0-40.0 moderate brecciation	Tr	M-56	37.0 - 40.0	15-20% carbonate & quartz veining
15-20% carbonate quartz veining				
54.8 - 55.0 quartz carb vein,	Tr	M-57	54.8 - 55.1	Quartz-carb, traces Py-Po, Cpy
traces Py-Po & Cpy				
66.0 - 68.0 Moderately brecciated,	Tr	M_58	65.7 - 68.0	15% carbonate
Andesite, 15% carbonate veining				
68.0 - 71.3 Highly brecciated Andesite	Tr	M-59	68.0 - 71.3	40% carbonate, 5% Po-Py
medium grey, leached, 40% carbonate				
10% quartz, 5% Po, traces Py			·	
71.3 - 71.8 guartz-carb vein, 60% Quartz	Tr	M_60	71.3 - 71.8	Quartz Carb Vein, 10% Po-Py, tr Cpy
carb, 30% volcanics, 10% Py-Po				
traces Cpy				
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AATITUDE STARTED	BEARING			D.D.HOLE NO. M - 73 - 2		
DEPARTURE COMPLETED	DIP)	LOCATION Marcus Property K.R.L. 19213		
ELEVATION H.D.	V.D.	DEF	тн	FILE		
GENERAL GEOLOGY	OUNCES	NO.	FOOTAGE	ECONOMIC GEOLOGY		
71.8 = 77.6 Iron Formation	Tr	M_61	71.8 - 75.0	Iron Formation		
Interbanded, 35% siltstone,	Tr	M_62	75.0 - 77.6	Iron Formation		
35% argillite, 20% chert, minor quarta		,				
10% Po, minor Py						
77.6 - 93.0 Mafic Meta Volcanics, dark	Tr	M_63	89.7 - 90.0	Luartz fractures		
green, fine grained, massive except						
for minor quartz filled fractures						
93.0 - 94.0 Highly leached andesite,	Tr	M_64	93.0 - 95.8	Argillite, 30% Pyrite		
light green, massive, highly leached						
94.0 - 107.7 Meta Argillite, black, fine	Tr	M_65	95.8 - 98.2	Argillite, 30% Pyrite		
grained, finely banded, 20% siltstone,	Tr	M_66	98.2 - 101.0	Argillite, 30% Pyrite		
30-35% interbanded Py in bands varying	Tr	M_67	101.0 - 104.0	Argillite, 30% Pyrite		
from hairline to several cm thickness	Tr	M_68	104.0 - 107.7	Argillite, 30% Pyrite		
107.7 - 113.4 Iron Formation, 40% chert,	Tr	M_69	107.7 - 111.0	Iron Formation		
40% siltstone, 15% bands Py, minor Po,	Tr	M_70	111.0 - 113.0	Iron Formation		
interbanded, leached						
113.4 - 118.3 Meta Sediments ? Arkose, light	Tr	14-71	113.0 - 118.3	Arkose		
brownish, fine-medium grained, leached	,	<u> </u>				
5% quartz fractures		<u> </u>				
118.3 - 123.6 Iron formation as 107.7-113.4	Tr	M-72	118.3 - 121.0	Iron Formation		
20% silicified section, marip	Tr	M-73	121.0 - 123.6	Iron Formation		
alteration in section						
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AATITUDE STARTED		BEAR	RING	D.D.HOLE NO. M - 73 - 2
DEPARTURE COMPLETED		DIP		LOCATION Marcus Property K.R.L. 19213
ELEVATION H.D.	V.D.	DEPI	'H	FILE
GENERAL GEOLOGY	OUNCES	NO.	FOOTAGE	ECONOMIC GEOLOGY
123.6 - 124.6 Highly leached Mafic Meta	Tr	M=74	123.6 - 124.6	Leached Volcanics
Volcanics, Andesite, light green,				
fine grained, highly leached,				
leaching decreases rapidly down hole				
124.6 1 166.5 Mafic Meta Volcanics, Andesite	,			
medium to dark green, fine grained,				
except for 3-5% quartz stringer.				
traces Py-Po; 126.0 has 5% scattered				
carbonate filled amygdols				
166.5 - 168.0 Mafic Dike - Diorite, medium g	reen,			
medium grained, very massive, sharp				
distinct contacts				
168.0 - 171.0 Mafic Meta Volcanics as 124.6-	166.5			
171.0 - 177.8 Intermediate Meta Volcanics.				
Dacite - Andesite ? med buffish gree	n,			
fine grained, moderately sheared & fo	liated			
Distinctive upper contact. Possibly				
massive uniform Arkosic sediments ??				
177.8 - 179.0 Dike ?? medium buffish green,				
fine grained matrix similar to volcan	ics above			
10-15% scattered "pophro blasts",				
meta cryst or in	-			
meta cryst or in clusion, generally el no definite brystal structure, defini	erae amabi	upper OGGED		LAYED OUT

AATITUDE STARTED		BEAR	ING	D.D.HOLE NO. M - 73 - 2	
DEPARTURE COMPLETED		DIP		LOCATION Marcus Property	7 K.R.L. 19213
ELEVATION H.D.	V.D.	DEPT	H	FILE	
GENERAL GEOLOGY	OUNCES	NO.	FOOTAGE	ECONOMIC GEOLOGY	
179.0 - 187.3 Intermediate Meta Volcanics of					
Sediments as described 171.0-177.8					
last foot highly sheared & silicified					
187.3 - 189.4 Dike ?? as described 177.8-1	9.0				
15% scattered "crysts" definite sharp					
contact, lower contact volcanic,					
somewhat brecciated for one cm.	<u></u>				
189.4 - 195.0 Intermediate Meta Volcanics					
as before. highly sheared, highly					
foliated, leached & silicified, poss	ble Seds				
195.0 - 196.8 Highly silicified Sediments					
70% silicified, dirty white,					
30% highly sheared & foliated "seds"					
5% scattered blebs Po.					
196.8 - 202.4 Meta Argillite, black slatey,	Tr	M=75	193.0 - 196.8		
fine grained, 20% siltstone, 5-10% Pe	-Py, Tr	M_76	196.8 - 202.4		
all intercolated & finely interbanded	1				
201.2 - 201.3 sililar dike as 177.8-1	84.0				·
202.4 - 205.3 Dike ? sililar to 177.8-179.0					
sharp upper convaluted upper contact,	,				
X-cuts bedding, lower contact indist:	nct				
and possibly assimilated wall rock					
PLOTIED	L	OGGED	(C. C.	LAYED OUT	• • • • 5

AATITUDE STARTED	0001121100	BEA	RING	D.D.HOLE NO. M - 73 - 2
DEPARTURE COMPLETED		DIP	· · · · · · · · · · · · · · · · · · ·	LOCATION Marcus Property K.R.L. 19213
ELEVATION H.D.	V.D.	DEP	TH	FILE
GENERAL GEOLOGY	OUNCES	NO.	FOOTAGE	ECONOMIC GEOLOGY
205.3 - 276.8k Intermediate Meta Volcanics				
buffish green to med green, fine	% Tr	M_77	233.8 - 234.3	Carb stringers
grained massive except for minor	Tr	M_78	235.1 - 235.8	Carb stringers
brecciated, overall 5% sil'd carb &	Tr	M-79	275.2 - 276.8	35-40% carbonate
carb stringers, occasional wider				
sil'd & carb'd section with minor Po	Tr	M_80	333.0 - 333.6	80% carbonate
and Py.	Tr	M_81	338.0 - 342.5	15% carbonate veining
275.2-276.8 35-40% carbonate section	Tr	M-82	342.5 - 344.7	10% carbonate veining
and veining	Tr	M_83	356.5 - 356.8	5 cm carbonate vein
276.8 - 280.0 Mafic Dike - Diorite, med grey,	Tr	M_84	357.8 - 358.5	20% quartz, 10% carb, trace Po-Py
fine-med grained, massive except for	Tr	M_85	359.2 - 360.5	10% carbonate trace Po-Py
minor quartz-carb filled fractures	Tr	M_86	389.7 - 393.3	10-15% carbonate veining
280.0 - 296.9 Intermediate Meta Volcanics				
as above	Tr	M_87	441.6-441.9	silicified stringer
296.9 - 444.4 Intermediate Meta Volcanics,	Tr	M_88	441.9-444.4	sheared volcanics
med to dark green, fine grained,	Tr	M_89	444.4-445.6	brecciated leached lava, 5% Po-Py
massive to foliated in sections, hghly	Tr	M_90	445.6-447.4	80% carbonate
chloritic, 5-8% carbonate veins.	Tr	M_91	447-4-449-3	30% carbonate
Sharp distinct upper contact	Tr	M_92	449.3-451.3	10% carbonate
last three feet highly sheared.	Tr	M_93	451.3-453.4	20% carbonate
444.4 - 453.4 Breccia Zone, 50% brecciated				
volcanics, 40% carbonate, 10% quartz,				
traces Po Py	:		0 x 0	6
PLOTTED	I	LOGGED _	10, 6	LAYED OUT

DEPARTURE ELEVATION H.D. V.D. DEPTH GENERAL GEOLOGY OUNCES NO. FOOTAGE SCONOMIC GEOLOGY AS3.A - A74.O Intermediate Nets Volcanics, Dactic - Andesite, bluish green, fine Erained, leached, moderately foliated 5-10% carbonate 474.0 - 475.1 Shear Zone, 30% carbonate, Tr N95 475.2-476.7 30% carbonate 20% fightly Beached Lava, 40% foliate dike intrusion, light Tr N96 476.7-479.1 20% carbonate buffish, highly sheared, vell foliated Go-65 to core axis 474.0-475.2 60% carbonate, 5% Py, misor Po, trace Cpy 479.1 - 501.0 Intermediate Nets Volcanics, Andesite, medium green, fine grained massive except for minor fracture 5-8% carbonate & quartz. 501.0* Foot of Hole	AATITUDE STARTED			RING	D.D.HOLE NO. M- 73 - 2
GENERAL GEOLOGY 453.h - h7h.O Intermediate Neta Volcanics, Dacite - Andesite, bluish green, fine grained, leached, moderately foliated, 5-10% carbonate 47h.O - 479.1 Shear Zone, 30% carbonate, 17				······································	
A53.h = h7h.O Intermediate Meta Volcanics, Dacite = Andesite, bluish green, fine Zrained, leached, moderately foliated, 5=10% carbonate 17h.O = 179.1 Shear Zone, 30% carbonate, Tr N=94 17h.O=h75.2 60% carbonate, 5% Py=Fo, tr Cpy 30% Michly Beuched lava, Tr N=95 1475.2=h76.7 30% carbonate buffish, highly sheared, well Tr N=96 1476.7=h79.1 20% carbonate buffish, highly sheared, well Tr N=97 1479.1=h82.14 15% carbonate veining foliated 60-65° to core axis 17h.O=h75.2 60% carbonate, 5% Fy, minor Fo, trace Cpy h79.1 = 501.0 Intermediate Meta Volcanics, Andesite, medium green, fine grained massive except for minor fracture 5=6% carbonate & quartz. 501.0° Foot of Hole	ELEVATION H.D.	V.D.	DEP	ГН	FILE
Dacite - Andestie, bluish green, fine grained, leached, moderately foliated, 5-10% carbonate 479.1 Shear Zone, 30% carbonate, 30% highly Beuched lava, 40% felsic dike intrusion, light Tr M-96 buffish, Mighly sheared, well Tr M-97 foliated 60-65° to core axis 47%.0-475.2 60% carbonate, 5% Fy, minor Po, trace Cpy 479.1 - 501.0 Intermediate Meta Volcanics, andesite, medium green, fine grained massire except for minor fracture 5-8% carbonate & quartz.	GENERAL GEOLOGY	OUNCES	NO.	FOOTAGE	ECONOMIC GEOLOGY
grained, leached, moderately foliated, 5-10% carbonate 170.0 - 479.1 Shear Zone, 30% carbonate, 30% highly Beached Lava, 40% felsic dike intrusion, light 5-10% carbonate 1874.0 - 475.2 50% carbonate 1875.2 - 476.7 30% carbonate 1875.2 - 476.7 30% carbonate 1876.7 - 479.1 20% carbonate 1876.7 - 479.1 15% carbonate 1876.1 - 479.1 - 482.4 15% carbonate 1876.2 - 476.7 - 479.1 15% carbonate 1876.1 - 479.1 - 482.4 15% carbonate veining 1879.1 - 501.0 Intermediate Meta Volcanics, Anderite, medium green, fine grained 1885 carbonate & quartz. 1801.0 Foot of Hole					
5-10% carbonate 474.0 - 479.1 Shear Zone, 30% carbonate, Tr M-94. 474.0-475.2 60% carbonate, 5% Py-Fo, tr Cpy 30% Mighly Beuched Lava, 40% felsic dike intrusion, light Tr M-96. 476.7-479.1 20% carbonate buffish, highly sheared, well foliated 60-65° to core axis 474.0-475.2 60% carbonate veining foliated 60-65° to core axis 474.0-475.2 60% carbonate, 5% Py, minor Po, trace Cpy 479.1 - 501.0 Intermediate Meta Volcanics, massive except for minor fracture 5-8% carbonate & quartz.			'		
5-10% carbonate 474.0 - 479.1 Shear Zone, 30% carbonate, Tr M-94 474.0-475.2 60% carbonate, 5% Py-Fo, tr Cpy 30% Mighly Beached lava, 40% felsic dike intrusion, light Tr M-96 476.7-479.1 20% carbonate buffish, highly sheared, well foliated 60-65° to core axis 474.0-475.2 60% carbonate, 5% Py, minor Po, trace Cpy 479.1 - 501.0 Intermediate Meta Volcanics, andesite, medium green, fine grained massive except for minor fracture 5-8% carbonate & quartz.	grained, leached, moderately foliate	ed,	,		
30% highly Neuched lava, 40% felsic dike intrusion, light 50 felsic dike intrusion, light 51	5-10% carbonate				
30% highly heached lava, 40% felsic dike intrusion, light buffish, highly sheared, well foliated 60-65° to core axis 474.0-475.2 60% carbonate, 5% Fy, minor Po, trace Cpy 479.1-501.0 Intermediate Meta Volcanics, andesite, medium green, fine grained massive except for minor fracture 5-6% carbonate & quartz.	474.0 - 479.1 Shear Zone, 30% carbonate,	Tr	M-94	474.0-475.2	
### ### ##############################		Tr	M-95	475.2-476.7	30% carbonate
buffish, highly sheared, well foliated 60-65° to core axis 474.0-475.2 60% carbonate, 5% Py, minor Po, trace Cpy 479.1-501.0 Intermediate Meta Volcanics, andexite, medium green, fine grained massive except for minor fracture 5-8% carbonate & quartz. 501.0° Foot of Hole		Tr	M_96	476.7-479.1	
foliated 60-65° to core axis 474.0-475.2 60% carbonate, 5% Py, minor Po, trace Cpy 479.1 - 501.0 Intermediate Meta Volcanics, andesite, medium green, fine grained massive except for minor fracture 5-8% carbonate & quartz. 501.0° Foot of Hole		Tr	M-97	479.1-482.4	15% carbonate veining
474.0-475.2 60% carbonate, 5% Py, minor Po, trace Cpy 479.1 - 501.0 Intermediate Meta Volcanics, Andesite, medium green, fine grained massive except for minor fracture 5-8% carbonate & quartz. 501.0* Foot of Hole			<u>'</u>		
Andesite, medium green, fine grained massive except for minor fracture 5-6% carbonate & quartz. 501.0° Foot of Hole			,		
Andemite, medium green, fine grained massive except for minor fracture 5-8% carbonate & quartz. 501.0° Foot of Hole	minor Po, trace Cpy		1		
massive except for minor fracture 5-8% carbonate & quartz. 501.0° Foot of Hole	479.1 - 501.0 Intermediate Meta Volcanics,				
5-8% carbonate & quartz. 501.0' Foot of Hole	Andemite, medium green, fine grained	3	<u>'</u>		
501.0° Foot of Hole	massive except for minor fracture				
	5-8% carbonate & quartz.		 '	-	
	(
PLOTIED LOGGED	501.07 Foot of Hole		 		
PLOTIED LOGGED LAYED OUT	1				
PLOT YED LOGGED C. C. LAYED OUT	1		+		
PLOTFED LOGGED LAYED OUT	1		 		
PLOTIED LOGGEDLAYED OUT			<u></u>		
PLOTIED LOGGED C LAYED OUT			·′		
PLOTIED LOGGED / LAYED OUT		:	1	700	
	PLOTIED	1	LOGGED _	K (1, C.	LAYED OUT

A ATITUDE	3 + 00 West	STARTED		BEAR:	RING Grid	South	h D.D.HOLE NO. M - 73 - 1		
DEPARTURE	6 + 50 MNorth	COMPLETED		DIP			LOCATION Marcus Property F	K.R.I	8473
ELEVATION		H.D.	V.D.	DEPTI	Ţ	feet	FILE		
GENF	ERAL GEOLOGY	,	OUNCES	NO.	FOOTAGE		ECONOMIC GEOLOGY		
0.0 - 22.0	Casing				1				
22.0 - 23.4			Tr	M_1	22.0 - 23.4	±	hly sil'd volvanic Po-Py, Acid test		
	canics, 60% sil'd,					<u> </u>	150		<u>-68°</u>
	leached fragments,	, 3-4% Po-Py,			4		300		-65°
	trace Chalcopyrite	<u>*</u>			+		500	<u>)+</u>	-66°
23.4 = 24.4	Mafic Meta Volvani	į			1				
	Ambsite, dark gree grained mod foliate	- 1	e	+					
24-4 - 24-7	,	·							
	grained, 90% silica	a very well			 				
	banded at 40° to co	ore axis			 				
	traces py-po					<u> </u>			•
24.7 - 26.0	Mafic Meta Volcanio	.cs, dark			1				
	grey, fine grained	1, moderately	/			<u> </u>			
	foliated to massive	/e '							
26.0 - 28.0	Chert & Mafic Volca	anics	Tr	M_2	26.0 - 28.0	<u>, </u>	Cherty bands		
	Cherty band running	ig parallel t	-0						
	core axis, half che	mert, half		1		<u> </u>		:	
	volcanics, moderate	sely fracture	and .		1				
	traces po, py, Cpy,	<u></u>			 				
				1					
PL	CITTO			LOGGED	10.0		LAYED OUT	•	2
	J111.			,000 LL			DATES OUT		

AATITUDE STARTED	COCHENOO	BEAH	NS GOLD MINES LI RING	D.D.HOLE NO. M - 73 - 1
DEPARTURE COMPLETED			LOCATION Marcus Property K.R.L. 8473	
ELEVATION H.D.	V.D.	DEP	TH	FILE
GENERAL GEOLOGY	OUNCES	NO.	FOOTAGE	ECONOMIC GEOLOGY
28.0 - 50.0 Mafic Meta Volcanics, medium				
green, fine grained, chloritic,	Tr	M-3	30.9 - 32.3	70% S = C
moderately foliated, overall 5-20%	Tr	Marie	32.3 - 38.0	15% S = C
sil'd carb and andesitic sections	Tr	M-5	38.0 - 43.0	15% S = C
ranging from massive stringers to	Tr	M = 6	43.0 - 50.0	5% S = C
irregular stringers to blebs,				
carbonate generally has cross fractur	e			
and veinlets of quartz		<u> </u>		
28.0 - scattered quartz eyes				
generally 5 inches diameter				
50.0 - 51.3 Sil'd carb zone possibly	Tr_	M_7	50.0 - 51.3	90% S_C marip*d, tr Po-Py
fault, hly leach volcanics, mod				
marip. trace Po-Py				
51.3 - 54.0 Mafic Meta Volcanics as above	Tr	M_8	51.3 - 54.0	5% S_C
54.0 - 57.3 Sil'd carb zone, 80% S-C,	Tr	M_9	54.0 - 57.3	80% S_C
20% altered volcanics	Tr	M_10	57.3 - 59.0	25% S_C, stringers
57.3 - 117.0 Mafic Meta Volcanics, Andesite	Tr	M_11	59.0 - 64.0	10% S_C stringers
medium dark green, fine grained,	Tr	M_12	64-0 - 69-0	10% S-C stringers
massive except for irregular fracturi	ng Tr	M_13	78.5 - 80.0	60% S_C
& carbonate & sil'd carb stringers	Tr	M_14	80.0 - 83.0	15% S_C
	Tr	M_15	83.0 - 86.0	40% S_C, stringers, carb vein
	Tr	M-16	86.0 - 89.4	25% S_C
	1		$A \propto \alpha$	

PLOTIED ___

LATITUDE STARTED		BEAR	CING	D.D.HOLE NO. M - 73 - 1
DEPARTURE COMPLETED		DIP		LOCATION Marcus Property K.R.L. 6473
ELEVATION H.D.	V.D.	DEPI	.H	FILE
GENERAL GEOLOGY	OUNCES	NO.	FOOTAGE	ECONOMIC GEOLOGY
	Tr	M_17	89.4 - 95.0	15% S_C
	Tr	M-18	95.0 - 99.7	10% 5_C
117.0 - 139.4 Brecciated Volcanics & sil'd	Tr	M-19	117.0 - 118.5	Bx'd levels, 30% qtz & carb, 3% Po-Py, tr Aspy, Cpy
carb & Carb Zone.	Tr	M_20	118.5 - 120.2	Med Bx, carb'd, 20% qtz & carb
50% hly altered banded, moderately		M_21	120.2 - 123.0	Relatively unaltered
bx'd volcanics, 30-40% carbonate &		M-22	123.0 - 125.0	Mod Bx, leached, 10% qtz & carb, Po-Py, Cpy
sil'd carb, 2-3% Po-Py, traces Cpy &		M-23	126.3 - 130.2	50% S_C, bx*d, 5% Po-Py bleb, tr Cpy
arsenopyrite in fine crystals,		M-24	130.2 - 133.3	40% carb stringers, leached
several large irregular blebs, Po & P	<u> </u>	M-25	133.3 - 136.3	40% carb stringers, leached
139.4 - 202.1 Mafic Meta Volcanics, Addesite	•	M-26	136.3 - 139.4	40% carb stringers, leached
greyish-green, fine grained massive		M_27	158.2 - 162.0	30-40% carb, 2% Py-Po
to moderately brecciated in sections,		M_28	176.5 - 178.8	40% carbonate, 2% Po-Py
occasional carbonate & sil'd carb		M-29	181.4 - 182.7	40% carbonate, tr Po-Py
stringers		M-30	182.7 - 186.6	10% carbonate & 5% quartz stringers
		M-31	186.6 - 187.4	40% carb, 15% quartz, 3% Po-Py
		M_32	187.4 - 189.6	5% quartz stringers
		M-33	189.6 - 191.7	Bx*d leached 15% carb, 15% quartz, 2% Po-Py
***		M_34	102.1 - 104.3	Iron fractures, Po-Py, Cpy, Aspy
261				
202.1 - 204.3 Iron Formation, lean Cherty,				
silstone interbedded Chert, sikidxstrgs greywa	ke			
& Po-Py, fractures, 15% quarts, 10-15;	6 Po,			
minor Py, traces Cpy & Aspy, bedding I	!	re axis	(00	LAYED OUT

AATITUDE STARTED		BEAF	RING	D.D.HOLE NO. M = 73 = 1
DEPARTURE COMPLETED		DIP		LOCATION Marcus Property K.P.I. 6473
ELEVATION H.D.	V.D.	DEPI	TH	FILE
GENERAL GEOLOGY	OUNCES	NO.	FOOTAGE	ECONOMIC GEOLOGY
204.3 - 216.6 Mafic Meta Volcanics, Andesite				
medium dark greyish green, fine		M-35	213.6 - 216.6	Mod Bx*d, leached, 15% carb
grained, generally massive with				
occasional slight to moderate				
brecciated, leachers & carb'n				
216.6 - 218.6 Iron formation, sikilar to		M - 36	216.6 - 218.6	Iron formation, Pc-Py, sl'd
above, brecciated, 40% Andesite		M-37	247.6 - 249.0	80% carbonate stringers
volcanic, 10-15% bands Po,		M-38	251.0 - 256.0	Mod bx'd, 15% sil'd, 10% carb
minor Py, Cpy.		M-39	256.0 - 260.0	Mod bx'd, 15% sil'd, 20% carb
218.6 - 378.1 Mafic Meta Volcanics as		M-40	263.0 - 264.2	20% carbonate stringers
214.3 - 216.6, occasional		M_41	265.8 - 268.5	Mod Bx, IX 30% carbonate
carbonate stringer		M-42	270.6 - 272.3	30% carbonate
378.1 - 379.2 Silicified Zone, 80% Chert		M-43	287.4 - 288.2	15% carbonate, tr Po
quartz, 20% volcanics		M-44	309.0 - 314.0	Mod Bx, 20% sil'd, 15% carb
379.2 - 401.0 Mafic Meta Volcanics, med to		M-45	314.0 - 315.3	5-8% carb in fractures
dark brown, hgly biotitic, fine grain	ed	M-46	315.3 - 3172	Mod Bx, 20% sil'd, 20% carb
massive to fractures & brecciated		M-47	317.2 - 319.0	10% Carb fractures
with occasional sil'd & carb'd section	ns,	M-48	319.0 - 320.0	60% carbonate
distinct from previous volcanics		M_49	320.0 - 321.0	5-10% carb in fractures
401.0 - 407.7 Iron Formation, Amphybole,			339.8 - 344.8 378.1 - 379.2	Mod fractures, 15% sil'd, 15% carb'd Silicified Zone
silstone, chert, Iron formation,		M-52	401.0 - 407.7	Iron Formation, 10% Po
10% Po bands at 10-15° to core axis		M-53	410.3 - 415.3	Mod Bx*d, 15% sil*d, 15% carb*d
407.7 - 503.0 Mafic Meta Volcanics as 379.2 503.0 - FOOT OF HOLE	1	M_54 OGGED	425.5 - 426.8	20% carb, 10% sil*d LAYED OUT

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