COMINCO LTD.

EXPLORATION NTS 94 E/2W

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WESTERN DISTRICT June 1, 1978

ASSESSMENT REPORT

GEOLOGICAL MAPPING AND SOIL GEOCHEMICAL

WORK ON THE

AMIGO PROPERTY

(AMIGO CLAIM; 4 UNITS)

TOODOGGONE RIVER AREA, OMINECA M.D.

LATITUDE: N57⁰12'

LONGITUDE: W126057'

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WORK PERFORMED: August 13-14, 1977

REPORT BY:

MINERAL RESOURCES BRANCH ASSESSMENT REPORT J.C. CAELLES

IN THE MATTER OF THE B.C. MINERAL ACT

AND IN THE MATTER OF A GEOLOGICAL AND GEOCHEMICAL PROGRAMME

CARRIED OUT ON MINERAL CLAIM AMIGO (4 UNITS)

ON THE AMIGO PROPERTY

LOCATED 75 KM NORTHWEST OF JOHANSON LAKE IN THE OMINECA MINING DIVISION

OF THE PROVINCE OF BRITISH COLUMBIA MORE PARTICULARLY

N.T.S. 94 E/2W

AFFIDAVIT

I, JUAN C. CAELLES, OF THE CITY OF VANCOUVER IN THE PROVINCE OF BRITISH COLUMBIA, MAKE OATH AND SAY:

- 1. THAT I AM EMPLOYED AS A GEOLOGIST BY COMINCO LTD. AND, AS SUCH, HAVE A PERSONAL KNOWLEDGE OF THE FACTS TO WHICH I HEREINAFTER DEPOSE;
- 2. THAT ANNEXED HERETO AND MARKED AS "EXHIBIT A" TO THIS MY AFFIDAVIT IS A TRUE COPY OF EXPENDITURES INCURRED ON GEOLOGICAL MAPPING AND/OR SOIL GEOCHEMICAL SURVEY ON THE MINERAL CLAIM AMIGO (4 UNITS);
- 3. THAT THE SAID EXPENDITURES WERE INCURRED BETWEEN THE 13TH OF AUGUST AND THE 14TH OF AUGUST, 1977 FOR THE PURPOSE OF MINERAL EXPLORATION ON THE ABOVE NOTED CLAIMS.

AMIGO GROUP

1977 ASSESSMENT REPORT

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ATTACHMENTS:

"Exhibit A"	Breakdown of expenditures
Table l	Soil geochemical analyses
Plate 1:	Location Map (Scale 1:2,000,000)
Plate 2:	Regional Geology, Claim and Soil Geochemical
Plate 3:	Zn Soil Geochemistry (Scale 1:2,000)
Plate 4:	Cu Soil Geochemistry (Scale 1:2,000)
Plate 5:	PB Soil Geochemistry (Scale 1:2,000)

EXPLORATION

WESTERN DISTRICT June 1, 1978

AMIGO GROUP

ASSESSMENT REPORT

SUMMARY AND CONCLUSIONS 1.

The 4-unit Amigo group exhibits Zn/Cu(Pb)Ag, skarn-type mineralization occurring at a quartz monzonite-limestone contact.

A reconnaissance soil geochemical survey outlined several Cu/Zn/Pb anomalous zones, some of them still open to the west.

Expenditures incurred to date are \$2,185.01.

2. PROPERTY

The Amigo group consists of 4 units staked by Cominco in August 1977. The property was previously staked by Amax in 1972 as the DUMAC Group it was not registered. Minas de Cerro Dorado owned the Riga Group, a porphyry copper-moly prospect located 2 km to the northeast; the property was abandoned after mapping, soil geochemistry and magnetometer surveys were carried out.

LOCATION 3.

Latitude: 57°12'N

Longitude: 126⁰57'W

NTS: 94E/2W

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The property is located in northern-central B.C., about 2 km southwest of Drybrough Peak and 12 km north-northwest of the northern end of Thutade Lake, in the Omineca M.D. (Plate 1). Access is by fixed wing aircraft from Smithers to Johanson Lake airstrip (210 km) and by helicopter from Johanson Lake to the property (75 km). Road access from the south is now within 55 km and eventually will be within 5 km.

Topographic relief is moderate over most of the property, with elevations between 4900 and 6200 feet. It lies mostly above tree line and is covered by moss and alpine grass. Water for exploration is available in the summer months.

4, GEOLOGY

Regional Geology

The region is underlain by six major rock units:

Tertiary and Upper Cretaceous

Sustut Group: non-marine conglomerate, shale, siltstone, tuff, minor fetid limestone.

Lower and/or Middle Jurassic

"Toodoggone" volcanic rocks: dacite, latite, rhyolite, tuff breccia, flows.

Lower Jurassic (?)

Hazelton Group: volcanic conglomerate, breccia, lahar; pink feldspar porphyry dykes.

Upper Triassic

Takla Group: plagioclase porphyry, augite porphyry, tuff, agglomerate; limestone.

Upper Paleozoic

Asitka Group: chert, argillite, limestone, greenstone.

Intrusive Rocks

Lower Jurassic (?) quartz monzonite and granodiorite.

Only recrystallized Asitka limestone and quartz monzonite underlie the Amigo claims.

Local Geology

The claims are underlain by quartz monzonite of possibly Lower Jurassic age, that includes a limestone unit of the Upper Paleozoic Asitka Group (Plate 2). The limestone is a unit at least 150 m thick, varying from very thicklybedded (>1 m) to medium-bedded (10-30 cm) and unfossiliferous. It has recrystallized to a coarse-grained, light grey, pure limestone. The intrusive body near the contact with the limestone has a quartz monzonite -quartz diorite composition. One porphyritic monzonite dyke, about 1.5-2.0 m wide, was observed in the proximity of sample JCC-415 (Plate 2).

5. MINERALIZATION

Traces of galena, sphalerite, chalcopyrite and malachite stainings occur in the exposed skarn zone. The intrusive-limestone contact is mostly covered by soil and moss and consequently a reconnaissance soil survey was conducted over the inferred contact. The limestone, where exposed, does not exhibit any sign of mineralization. The intrusive body is completely barren a few meters from the contact. However, a similar intrusive rock approximately 2 km to the northeast contains disseminated Cu/Mo mineralization on the former Riga claims, where mapping, soil geochemistry and magnetic surveys were carried out.

6. GEOCHEMISTRY

Reconnaissance soil geochemical sampling was carried out over the inferred intrusive-limestone contact, in a grid approximately 600 x 600 m, at 50 m intervals. All soil samples were collected from B soil horizon (about 25 cm below surface); the samples were screened and the -80 mesh fraction analysed. The samples were processed and analysed at Cominco's laboratory

(Vancouver) according to the following methods:

- 1. Copper, lead, zinc and silver were done by nitric acid digestion and atomic absorption determination;
- 2. Molybdenum analyses were done by pyrosulphate fusion followed by thiocyanate colourimetric determination;
- 3. Gold analyses were done by aqua regia digestion followed by organic extraction and atomic absorption.
- 4. Tungsten analyses were done by pyrosulphate fusion followed by colourimetric determinations.

The limits of detection are:

l ppm
3 ppm
1 ppm
Ú.4 ppm
2 ppm
2 ppm

The survey indicated several anomalous zones in Zn, Cu and Pb, the largest of which is about $250 \times 100 \text{ m}$ (Plates 3, 4 and 5). These soil geochemical anomalies were the reason for staking.

In Plate 3 the Zn soil values have been plotted. It is estimated that the data can be interpreted as follows, based on the cumulative probability plot:

Anomalous	<u>High Background</u>	Low Background
▶450	450 ≤ ∷x ≤ 140	∠ 140

The reconnaissance sampling outlines at least three anomalous zones, the largest about 150 x 100 m enclosed by the 1500 ppm Zn contour line situated in the central part of the grid. The northwestern anomaly is open to the north and west.

The Cu values are plotted in Plate 4. The cumulative probability plot indicates a threshold value of 135 ppm. An anomalous zone, encompassed by the 200 ppm contour line and approximately 200 x 100 m, is delineated with a northerly trend and roughly coextensive with the Zn central anomalous zone. Another anomaly on the northwestern corner, outlined by two samples, is still open to the north and west.

The Pb values are represented in Plate 5. The cumualtive probability plot suggests the following values.

<u>Anomalous</u>	<u>High Background</u>	Low Background	
> 210	210 ≤ x ≤ 35	< 35	

3.

Small anomalous zones, some still open, are outlined.

: Caelly Report by: J.C. Caelles Geologist Θ Endorsed by: D.L. Cooke, P. Eng. Senior Geologist Approved for Release by: G. Harden Manager, Exploration Western District

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JCC/pcd

EXHIBIT "A"

GEOLOGICAL MAPPING AND SOIL GEOCHEMICAL SURVEY

ON THE

AMIGO CLAIMS

Located 75 km northwest of Johanson Lake

Latitude: N57⁰12' Longitude: W126⁰57'

Salaries (sampling and mapping)	Person	Sub Total	Total	
H. Lefebvre (2 days x \$63.40)	\$ 126.80		-	
R. Boocock (2 days x \$64.94)	129.88			
N. Humphreys (½ day x \$78.41)	39.21			
S. Fountain (½ day x \$61.78)	30.89			
JCC 15 field days + 2 days plotting +				
writing report $(3\frac{1}{5} \times \$130.24)$	455.84			
		\$ 782.62		
<u>Cominco Laboratory</u> (Vancouver)				
135 soil samples x \$4.75 (Cu Pb Zn Ag I	W) 641.25			
		\$ 641.25		
	· · · · · ·			
Transportation	•			
HI & RB (Tood (15 miles x^2) $x = 1.3h x^2$	175) 228 00		.7	

NH & SF (Tood (15 miles x 2) x 1.3m x 175) 228.00 NH & SF (Tood (15 miles x 1) x 0.7h x 175) 123.00 JCC (Tood (15 miles x 1) x 0.7h x 175) 123.00 Gasoline (2.7 hours x 15 gal/h x 1.50/gal) 60.75

Board

6½ man days x \$28.94 per day	188.11
	\$ 188.11
Mobilization and demobilization	
HL (\$359.60 77 x 2) RB (\$787.60 77 x 2)	9.34 20.45
NH (\$551.60 77 x 0.5) SF (\$395.60 77 x 0.5)	3.58 2.57
JCC (\$359,60 /7 x 0.5)	\$ 38.28

\$2,185.01

Jun C. Calles

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NORT)ERN BAC PORPHYRY

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4,	7715379	****7	43	307	70	1.2	
Ľ,	7715380	****9	132	162	67	0.8	
8	7715381	****11	26	116	700	0.6	
7	7715382	****	1190	44	690	6.2	-
8	7715383	****15	16	33	103	4	
ф.	7715384	****17	73	44	148	4	•
10	7715385	****19	100	632	1300	2.8	
11	7715386	****51	54	62	263	4	
12	7715387	****23	23	27	151	4	-
13	7715388	****25	24	160	400	4	
1-4	7715389	****27	4	14	71	4	
1.5	7715390	****38	14	17	67	4	
16	7718391	****31	22	14	56	4	
17	7715392	****33	24	61	125	4	
18	7718393	****32	58	. 28	136	-,4	-
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20	7715395	****39	27	34	120	4	
21	7715396	***41	49	36	135	4	
22	7715397	****43	54	3	: 28	4	
23	7715398	****45	-29	161	-252	4	
24	7715399	****47	29	249	390	- 4	•
25	7715400	****49	34	184	300	1.4	
26	7715401	**** <u>*</u> 51	36	122	990	1.0	
27	7715402	****53	34	336	1620	1.2	
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32	7715407	****63	39	60	200	4	
33	7715408	****65	40	36	124	4	
34	7715409	****67	33	20	89	4	
35	7715410	****69	18	19	56	0.6	-
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	64	7715439	****22	17	56	200	- 4		• .
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	66	7715441	****24	19	30	140	- 4		
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77	7715452	****48	75	398	2760	2.4		
78	7715453	****50	62	63	260	0.5		
79	7715454	****52	126	150	1530	1.5		
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NOTE - SIGN MEANS LESS THAN, VALUE USED IS HALF DETECTION LIMIT

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MOSTHERN B.C. PORPHYRY

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AMIGO GP

17 JANUARY 1978

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TABLE	ŧ	

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37	7715392	****33	
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19	7715394	***37	
20	7715395	***39	
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			¥***70						
	07 25	アノルローツツ ツワッセススだ	*****	-					
	2.0	//kQ440 7770/2224	8888777 8888777			•			
		7713440	****30						
	/ Z.	7/15447	ARARYV Araryv						
	2.5 ×	//15448	*****	•					
	74	7715449	****42						
	75	7715450	****44						
	76	7715451	****46			-			
	77.	7715452	****48						
	78	7715453	****50						
	79	7715454	****52						
	80	7715455	****54						
	81	7715456	****56						
	. 82	7715457	****58						
	83	7715458	****60		•				
	84	7715459	****62						
	85	7715460	****64						
	86	7715461	****66						
	87	7715462	****68						
	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 19		3 8 V 8 1						

4 ¥						
		1. J.	Burger Burger and			
	22	2715454	****52			
	80	7715455	****54			
	81	7715456	****56			
	82	7715457	****58			
	93	7715458	****60			
	84	7715459	****62			
	85	7715460	****64			
	86	7715461	****66			
	87	7715462	****68			
	88	7715463	****70			
	99	7715464	****7 <u>2</u>			
	90	7715465	****74			
	Q1	7715466	****76			
	ŵ?	7715467	****78			
	07	7715468	08****			
	ο <u>Δ</u>	7715469	****82			
	¢ C	7715470	****84			
	94	7716471	****			
	07	7715472	****98			
	27	7715477	****90			
	00	7716474	****92			
	100	7715475	****			
	100	ንንቷውማንው ማማተፍለማል	****			
	101	7740770	****99			
	1.477 4.7572	2710777 7716770	****100			· ·
	10.5	7712779	****102			
	104	77129977	****104			
	100	7716491	****106			
	100	7710701	DHGD-77-203	-2	-2	
	107	7742325	DMSD-77-204	-2	-2	
	1.40	7712000 7717272	DMG1-77-204	ล	. 4	
	1477	77122000	NMGD-77-20C	-2	-2	
	110	77122007	*******-201	-7	3	
	111	7/12200	******	2	2	
	112	//12007 mm+0m1A	******-708	-2	-2	
	114	7712040	*******	ล้	28	
	114	7712341	5335555574V/ 5865-77-716	-2	-2	
	115	7/12308	0130-77-21-	-2		
	116.	7712309	2222222222711 22222222227711	-2	-2	
	117	7712310	***************************************	-2	ົ	
	118	7712311	***************************************	-2	<u>-</u> 7	
	119	7712312	********	-2	-2	•
	120	7712313	***********	- <u>-</u>		
	121	7712314	**********	4	-2	
	122	7712315	*******		-2	
	123	7712316	*********	5		·· - · · · · · · · · · · · · · · · · ·
	124	7712317	***************************************		-2	· · ·
	125	7712318	来来来来来来来来来""这些 ,可以可以可以不可以一些吗?"	-4		
	4.60	ور به زردیه از ولیک	· 19、19、19、19、19、19、19、19、11、11、11、11、11、1			

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1 1 44	7712317	法安保安法法法法	2	-2
126	2712318	********-220	-2	-2
126	7712319	*******-221	-2	-2
1.27	7712320	*******-222	2	-2
128	7712321	*******=223	-2	-2
129	7712322	*******-22 🏘	-2	-2
130	7712323	*******=223	-2	-2
131	7712324	*******-226	-2	-2
$13^{\circ}$	7712325	*******=551	-2	-2
173	7712326	*******=22*	-2	-2
134	7712327	*******=229	-2	-2
135	7712328	*******-230	-2	-2
136	7712329	*******-23}	-2	-2
1.37	7712330	DM-232	-2	3

NOTE - SIGN MEANS LESS THAN, VALUE USED IS HALF DETECTION LIMIT

• ir



ADrybrough Pk 5000  $\mathcal{O}$ ,50⁰ 57°10′ 127°00' LEGEND [] Limestone 2 Quartz monzonite - quartz diorite B Skarn ▲ Rock sample 🎵 Amigo claim boundary Approximate area of soil sampling MINIRAL RESOURCES BRANCH INT REPORT Traced by: Drawn by: AMIGO CLAIM GROUP Levised by Date Herised by Date z' OMINICA M.D. NTS 94E/2W Plate: Scale: 1:50,000 Date: January 12, 1978 2 210-0410 6-11 2187-C  $[f_{i}] = [f_{i}]$ 



Contour values for Zn in ppm

NO.

SOIL GEOCHEMISTRY - Zn 1:2000 Date Jan. 78





# <u>52/43/220/-.4</u>

54/230/605/4/a/c2 67/95/355/c4/c2/c2 611742/5601-4/3/62

<u>29</u>|161 252/24/22 <u>46</u> 60/2301.9

182 53 185 4 42122 49/34/135/24/22 27/34/120/04/22

20/233/230/.4 * #/25/120/4-4

66/35/211/c4/22

63/30/20/-5

mila167/4.4/c2/

12/16/70/24

130.1

58/455/1270/3-2/22/4 59/37/137/04/02/2 52/50/196/44/22/8

33/33/4401.4 42. 43/100/-4 39/60/200/c-4/cz

<u>66</u>/23/56/24 salarimicalica

到50/145/15/142 2119/80/24/22 1. 1 2 3 24159/1501.4 AUTONI

4 35:304 (2012-4 2/12/20/5-4

mfunlin3(cu/c2/<2

10/21/90/24 23/24/151/24/2/22 24/160/400/24/12/22

58/28/136/24/02/ +1/44/15+1C-4]=212 52/35/03/04/02/2 28/28/10/104/2/02

54/2/28/24/22

45/20/110/24

39/25/80/2-4 50/97/50/11 ------. 33/20/89/24 6

18/19/56/-6/22

24/6/125/04/02/

13/35/100/2.4 27 51 50 5-41+2 28/39/150 2:4

x =4/35/100/-5 123 42 120 24 22

22/14/56/04/12/

* * 318153/24/42 15/20/80/24 34/34/150/2.4 15/19/2014-4

20/26/106/04/02/02 x 127/23/43/4/2/2 17/25/95/44/42/42

> Drawn by: Revised by Date

4/14/21/24/22/22

LEGEND

Silt sample location

Rock sample location

Soil sample locations

<u>Cu</u>/Pb/Zn/Ag/W/Mo - Values in ppm

INERAL RESOURCES BRANCH SMENT REPORT

AMIGO Claim Block Traced by: Revised by Date SOIL GEOCHEMISTRY - CU Juan Callos Omineca M, D. Date: Jan. 78 1:2000 Scale:



