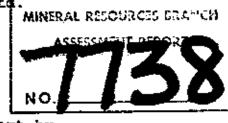
Diamond Drilling Assessment Report

on the

Ax Property 79-639-4 (Ax and Jen Groups) and specifically the Ax 2, Ax 3 and Jill 1 Located Mineral Claims **Omineca Mining Division** Endako, B. C. N.T.S. 93K/3E Latitude 54°05'N; Longitude 125°10'W and owned by **RIO PLATA SILVER MINES LTD.** of Vancouver, B. C.

Work by D.W. Coates Enterprises Ltd. Oct. 28 to Nov. 17, 1979. MINERAL RESOURCES DRAFT



Report by

D. R. Cochrane, P. Eng., January 7, 1980, Delta, B. C.



Cochrane Consultants Limited 4982 Data BL, Data, B.G. V4K 2T8 546-9221 Geotechnical Consulting / Exploration Services geology geophysics geochemistry

TABLE OF CONTENTS

Α.	INTRODUCTION	1
В.	LOCATION AND ACCESS	2
С.	CLAIMS INFORMATION	3
Ð.	HISTORY	5
Ε.	SETTING	7
F٠	DETAILS OF DRILLING	10
G.	CONCLUSIONS	12

Figures

1.	Location Map	Report body
2.	Claims Map	47 47
5.	Base Map	Map Pocket
6.	Surveyed Area	<i>18</i> 17
7.	Section 79-1	47 14
8.	Section 79-2	18 19
9.	Section 79-3	47 62
10	Section 79-4	60 LE

Appendices

- I Diamond Drill Hole Logs
- II Certificate
- III Bibliography
 - IV D.W. Coates Enterprises Invoices
 - V Assessment Work Distribution



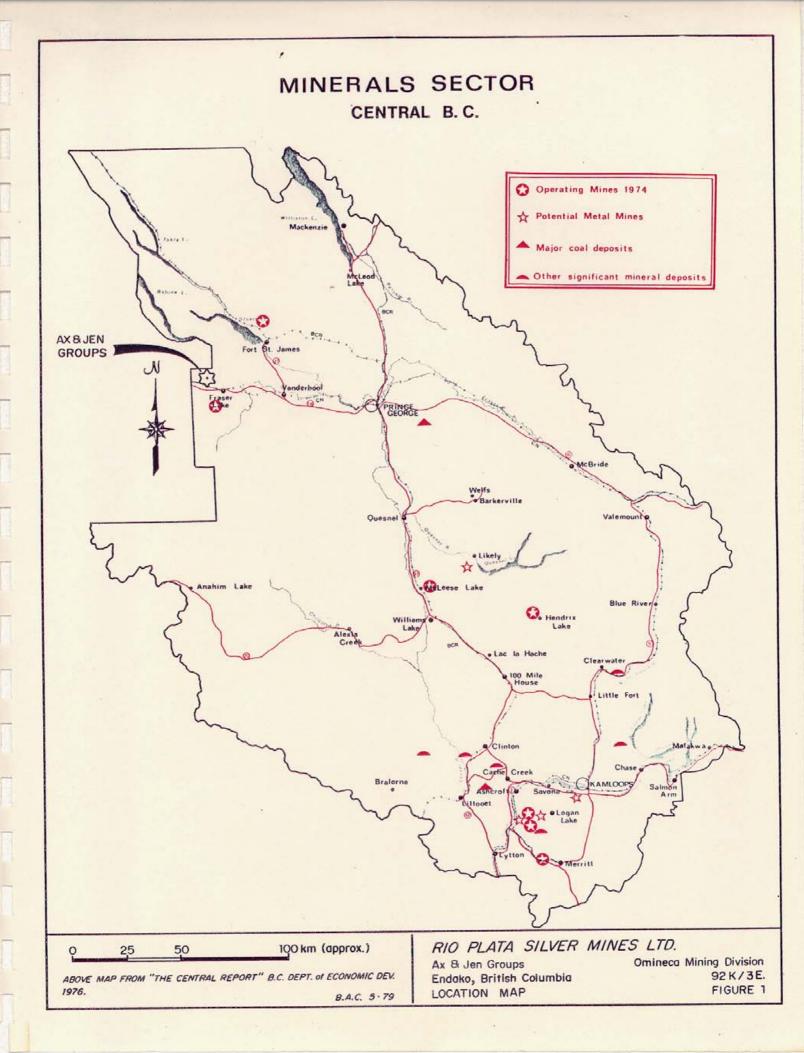
A. INTRODUCTION

Commencing on October 28, 1979, and through to November 17, 1979, a diamond drill program was conducted on the Ax and Jen Groups of mineral claims (Ax Property) situated just north of the Endako Molybdenum Mine in the Omineca Area of British Columbia. The drilling was contracted to D.W. Coates Enterprises Ltd., and the drill site and access road (cat) work to R. Orsetti of Endako, B. C. The author is the consultant on the Ax Group property on behalf of Rio Plata Silver Mines Ltd., and personally supervised the program and logged the core.

The purpose of the work was to test anomalous results obtained from earlier percussion drilling and to determine if the Endako mineralization continues through the Ax Property.



-1-



B. LOCATION AND ACCESS

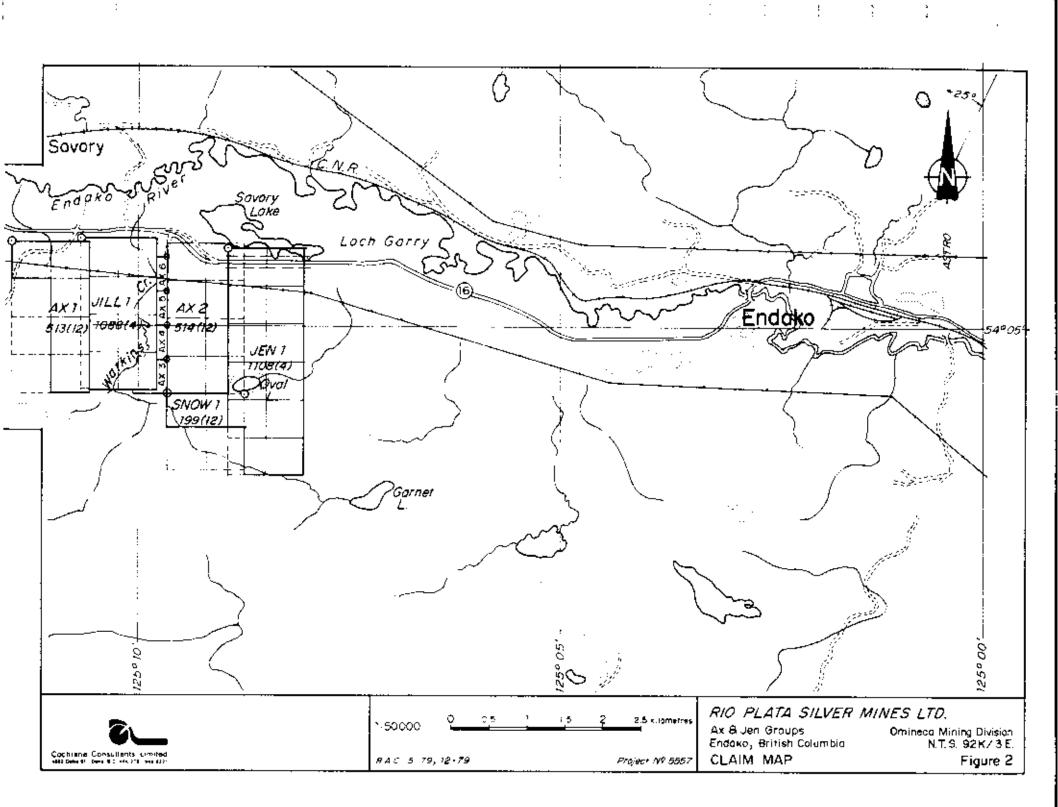
The Ax and Jen Groups of mineral claims are centered six (6) kilometres due west of the town of Endako and immediately south of Highway number 16. The claims are 22 road kilometres north west of the village of Fraser Lake (the Endako Mine townsite) and 48 road kilometres south east of Burns Lake. Fraser Lake has a population of 1,500 (estimated 1975 B. C. Dept. of Economic Development) and a full compliment of services. The claims are 580 air kilometres north northwest of downtown Vancouver.

There are a number of 4x4 roads off the highway that provide good access to the claims area.

The N.T.S. code for the area is 93K/3E.



-2-



C. CLAIMS INFORMATION

The Ax and Jen Groups consist of five (5) contiguous modified grid claims made up of 40 units and four new two-post claims, all of which are recorded in the Omineca Mining Division, B.C. They are plotted on B.C. Dept. of Mines Mineral Claims Map 93K/3E and as of December 19, 1979, the modified grid claims are registered in the name of Mr. G. Oates of Vancouver, B. C. The four new two-post claims are owned by Mr. Dennis Ivens, of Delta, B. C. Rio Plata Silver Mines holds title by option.

The following table lists pertinent claims information (also accompanying claims map).



-3-

	A	X PROPERTY		
Mr. G. Oat	es			
CLAIM NAME	RECORD NO.	ANNIVERSARY DATE	EXPIRY before credits	after
Ax No. 1	513	December 1	197 9	1981
Ax No. 2	514	(1 12	17	()
Jill No. 1	1088	April 5	1980	1982
Jen No. 1	1108	April 18	1980	1982
Snow No. 1	199	December 9	1979	- 1981
<u>Dennis Ivens</u> Ax No. 3	2029	August 22	1980	1982
Ax No. 4	2030	33	1980	1982
Ax No. 5	2031	(†	1980	1982
Ax No. 6	2032	; ;	1980	1982
Ax Group:	<u> </u>	, 4, Jill No. 1, Sr	IOW NO. 1	

The author inspected several claim posts and claims are well staked and appear to be located in accordance with the regulations set out in the Mineral Act.

Assessment work filed December 20, 1979.



D. HISTORY

The central region of British Columbia has a long mining history dating back to the early 1860's and the famous placer gold rush. Much of the placer mining activity declined by the turn of the century and was turned to lode gold mining. In 1940, the famous Pinchi Lake Mercury Mine was brought into production, and in 1927, mineralized float was found near the Endako Molybdenum Mine. In 1962 and 1963 there was extensive surface diamond drilling by Endako Mines and a production announcement was made in 1964. During this period there was an intensive search for copper and molybdenum in the region by such companies as Utica Mines, Torwest Resources, United Buffadison, Copper Ridge, Amax Exploration and other companies. Mr. Oates acquired the claims under consideration during this period, and has conducted periodic exploration work on the property over the years.



-5-

A soil sampling survey was conducted over the west half of the property by New Indian Mines in 1964, (B.C. Assessment Report 0555 by F.J. Hemsworth for New Indian Mines.). There is evidence of some bulldozer trenching on the property and there are old cut lines recognizable on various parts of the claims area. Apparently Mr. Oates conducted some EM orientation tests on a portion of the claims several years ago, however, to the author's knowledge there has never been an integrated exploration program conducted over the Ax Property, prior to 1979.



-6-

E. SETTING

The Ax and Jen Groups of mineral claims are situated in the Nechako Plateau physiographic region of British Columbia. In general, it is very scenic and gently rolling upland surface with broad valleys flanked by rounded hills that rise a few hundred metres above valley floors. The elevation in the claims area is about 750 metres above sea level and the country is quite open with hills lightly forested with spruce, pine, aspen, birch and poplar.

The area is economically tied to the mining, logging and ranching industries.

Highway No. 16 and a major power line runs through the north end of the claims area and the CPR line lies just across the Endako River from the Ax Property. (See maps)



-7-

The most important local industry is the Endako Molybdenum Mine, Canada's largest producer and the world's third largest molybdenum producer. The Endako Mine commenced operations in 1965 at a capacity of 12,000 short tons per day, and currently (1979) has a plant capacity of 35,800 tons per day. Ore reserves as of December, 1978, were set at 219 million metric tonnes at an average grade of 0.082% molybdenum at a cut off grade of 0.048% Mo. This is sufficient for approximately 20 years of continued operations if no additional ore is found. (Source: Northern Miner Canadian Mines Handbook, 1979-80).

The vast majority of the Ax Property is overburden covered and there are only a few natural outcrops; therefore knowledge of the bedrock geology is sketchy. There are three small areas of fair natural outcrop exposure and the remainder is covered by a widespread mantle of drift varying from a few ten's of feet (3m) in the southeast section of the claims area, to over one hundred feet (30m) in the southwest section,

-8-

to several hundred feet (+30 m) along the north portion of the Ax Group. Therefore, soil geochemistry is ineffective in many areas, and many of the indirect methods of geophysical prospecting are suspect. Overburden cover varies from well sorted sand and gravel through less well sorted sand and gravel through less well sorted till, to boulder clay and finally to what appears to be thick sequences of clay.

Most of the Ax Property, however, appears to be underlain by the Endako Quartz Monzonite (Q.M). The host rock for the Endako Molybdenum Mine.



-9-

F. DETAILS OF DRILLING

As previously mentioned, the diamond drilling was contracted to D.W. Coates Enterprises Ltd., of Richmond, B. C. who supplied all necessary equipment and supplies for the 2,000 ft. minimum contract. Mr. R. Orsetti of Endako, was contracted to supply a cat for moving the drill, building access roads and drill sites (Allis Chambers TD-11). The author spotted holes, logged core, and surveyed drill hole collars. Sludge samples were collected, and stored on the property, with the core, at a site near Oval Lake. Sludges were collected at 10 ft. intervals (approximately 3 m), and mineralized sections of core were split, double bagged, tagged and delivered by the author to Min-En Labs of North Vancouver, where they were geochemically analyzed for Mo and Cu content in parts per million. All values over 100 ppm Mo were assayed for Mo.



-10-

Four (4) N.Q.W.L. (core diameter 47.6 mm, hole diameter 75.7 mm) diamond drill holes were completed for an aggregate total of 670 m (2200 lineal feet).

Specific details as to depth, elevation of collar, inclination, bearing, latitude, and departure are contained in the accompanying logs. (Appendix I).

Drafting and report preparation was carried out by the staff of Cochrane Consultants Ltd., at the Delta, B. C. office.



G. CONCLUSIONS

- Overburden cover in the four holes varies from a few metres to over 30 metres in depth.
- Most of the cored bedrock is Endako
 Phase Q.M., with a few intersections
 of Casey Q.M.
- 3. The alteration in the first three holes is low temperature (clay, chlorite), and higher grade in the last and fourth diamond drill hole.
- 4. Continuous, but sub ore grade molybdenite mineralization, was encountered in the last 75 m of D.D.H. 79-4. Additional drilling is warrented in this area.

Respectfully submitted

D. R. Cochrane, P. Eng.



APPENDIX I

D. D. H. Logs



.. . .

PROPERTY Ax Group (Endako) DIP TEST Angle Foologe Reading Corrected casing -45° Diamond Drill Record



... Cochrane Consultants Limited

HOLE No. 79-1 Sheet No. 1. 0.56 Section 79-1		Totol Depth213.4m (700*) Logged By D.B.C.
Dote Begun October 28, 1979 Date Finished November 2, 1979	Searing 315°	Claim Ax-2

DESCRIPTION	SAMPLE No.	FROM	то	WIDTH of SAMPLE	MO pom	Cu ppm
Casing						
Endako Q.M: Pink, coarse grained, altered-:	27576	7.0m	9.1m	2.1m	2	13
<u>+90% pink k-spar,qtz - perthitic texture -</u>	27577	<u>9.1m</u>	<u>10.7m</u>	1.6m	3	6
mafics - biotite: traces diss. py.,	27578	<u>10.7m</u>	13.7m	3.0m	1	4
considerable specularite - hematite: mafics	27579	13.7m	16.8m	3.1m	<u>1</u>	5
often chloritic traces diss. molybdenite	27580	16.8m	<u>19.8m</u>	3.0m	3	3
at 10.7 m (35') - blocky, highly fractured	27581	<u>19.8m</u>	22.9m	<u>3.1m</u>	1	4
calcite; chlorite/hematitic joints:	27582	22.9m	25.9m	3.0m	1	4
26.5 m (87') tube did not lock lost 2.1m	27583	.25.9m	28.7m	2.8m		4
(7') of core from 26.5 m (87') to 28.7 m (94')	27584	28.7m	31.7	3.0m	1	4
From 30.5 m (100') to 39.6 m (130')	27585	<u>31.7m</u>	34.7m	3.0m	1	3
slightly more massive: Rock shattered				· .		
51.8 m (170') - 52 m (170:5'); 53.3 m (175.0')						<u> </u>
-53.5 m (175.5'); 55.2 m (181') - 55.8 m (182')						
56.7 m (186') - 57 m (187')						
	Casing Endako Q.M: Pink, coarse grained, altered-: +90% pink k-spar, qtz - perthitic texture - mafics - biotite: traces diss. py., considerable specularite - hematite: mafics often chloritic traces diss. molybdenite at 10.7 m (35') - blocky, highly fractured calcite; chlorite/hematitic joints: 26.5 m (87') tube did not lock lost 2.3m (7') of core from 26.5 m (87') to 28.7 m (94') From 30.5 m (100') to 39.6 m (130') slightly more massive: Rock shattered 51.8 m (170') - 52 m (170.5'); 53.3 m (175.0') -53.5 m (175.5'); 55.2 m (181')- 55.8 m (182')	Casing Endako.Q.M: Pink, coarse grained, altered-: 27576 +90% pink k-spar, qtz - perthitic texture - 27577 mafics - biotite: traces diss. py., 27578 considerable specularite - hematite: mafics 27579 often chloritic traces diss. molybdenite 27580 at 10.7 m (35') - blocky, highly fractured 27581 calcite; chlorite/hematitic joints: 27582 26.5 m (87') tube did not lock lost 2.1m 27583 (7') of core from 26.5 m (87') to 28.7 m (94') 27584 From 30.5 m (100') to 39.6 m (130') 27585 slightly more massive: Rock shattered 51.8 m (170') - 52 m (170.5'); 53.3 m (175.0') -53.5 m (175.5'); 55.2 m (181') - 55.8 m (182')	Casing Endako Q.M: Pink, coarse grained, altered-: 27576 7.0m +90% pink k-spar, qtz - perthitic texture - 27577 9.1m mafics - biotite: traces diss. py., 27578 10.7m considerable specularite - hematite: mafics 27579 13.7m often chloritic traces diss. molybdenite 27580 16.8m at 10.7 m (35') - blocky, highly fractured 27581 19.8m calcite; chlorite/hematitic joints: 27582 22.9m 26.5 m (87') tube did not lock lost 2.1m 27583 25.9m (7') of core from 26.5 m (87') to 28.7 m (94') 27584 28.7m From 30.5 m (100') to 39.6 m (130') 27585 31.7m slightly more massive: Rock shattered 51.8 m (170') - 52 m (170.5'); 53.3 m (175.0') -53.5 m (175.5'); 55.2 m (181')- 55.8 m (182')	Casing Endako Q.M: Pink, coarse grained, altered-: 27576 7.0m 9.1m +90% pink k-spar, gtz - perthitic texture - 27577 9.1m 10.7m mafics - biotite: traces diss. py., 27578 10.7m 13.7m considerable specularite - hematite: mafics 27579 13.7m 16.8m often chloritic traces diss. molybdenite 27580 16.8m 19.8m at 10.7 m (35') - blocky, highly fractured 27581 19.8m 22.9m calcite; chlorite/hematitic joints: 27582 22.9m 25.9m 26.5 m (87') tube did not lock lost 2.1m 27583 25.9m 28.7m (7') of core from 26.5 m (87') to 28.7 m (94') 27584 28.7m 31.7 From 30.5 m (100') to 39.6 m (130') 27585 31.7m 34.7m slightly more massive: Rock shattered 51.8 m (170') - 52 m (170.5'); 53.3 m (175.0') -53.5 m (175.5'); 55.2 m (181')- 55.8 m (182')	DESCRIPTION SAMPLE No. FROM TO of SAMPLE Casing Endako Q.M: Pink, coarse grained, altered-: 27576 7.0m 9.1m 2.1m +90% pink k-spar, qtz - perthitic texture - 27577 9.1m 10.7m 1.6m mafics - biotite: traces diss. py., 27578 10.7m 13.7m 3.0m considerable specularite - hematite: mafics 27579 13.7m 16.8m 3.1m often chloritic traces diss. molybdenite 27580 16.8m 19.8m 3.0m at 10.7 m (35') - blocky, highly fractured 27581 19.8m 22.9m 3.1m calcite; chlorite/hematitic joints: 27582 22.9m 3.2m 26.5 m 3.0m 26.5 m (87') tube did not lock lost 2.1m 27583 25.9m 28.7m 2.8m (7') of core from 26.5 m (87') to 28.7 m (94') 27584 28.7m 31.7 3.0m From 30.5 m (100') to 39.6 m (130') 27585 31.7m 34.7m 3.0m slightly more massive: Rock shattered -	DESCRIPTION SAMPLE No. FROM TO of SAMPLE ppm Casing

PROPERTY Ax Group

Diamond Drill Record



DIP TEST						
	Än					
Foologe	Reading	Corrected				
casing	-45°					

 Date Begun
 October
 28, 1979
 Bearing
 315°

 Date Finished
 November
 2, 1979
 Elev. Collar.2pprox. 808
 M

Total Depth 213.4 m (700')
Logged By D. R. C.
Claim Ax-2
Core Size N. Q.

DEPTH	DESCRIPTION	SAMPLE No.	FROM	10	WIDTH of SAMPLE	Mo mqq	ຕິນ ຫຼວກ
<u>61m-61.9m</u>	Fault: Gouge , shattered rock; very blocky,	27586	.59.4m.	62.5m		3	3
(200-203')	core rec. approx. 60%; chlorite: calcite						
	Most fractures roughly 45° to C/A						
61.9m-70.1m	Altered Endako 0.M: chloritic/talcose slips:						
(203-230')	Considerable hematite: pink, coarse						
	grained; Low grade alteration-biotite						
	chlorite_etc.						
70.1m-71.6m	Hybrid Zone: Narrow fine grained pink veins		-				
(230-235')	of aplite up to 1 decimetre wide in						
	Endako Q.M: C/A at aplite roughly 45°	2					
71.6m-75m	Aplite Dike: Very fine grained pink dike:						
(235-246')	brecciated contact so attitude?						
	Chloritic fractures-also calcite and						
	minor pyrite						
		ĺ					·
<u> </u>							

PROPERTY AX Group

DIF TEST
Angle
Footage
Reading
Corrected
Casing
-45°

Diamond Drill Record

.



_____Cochrane Consultants Limited

HOLE No. 79-1 Sheet No. 3 OF6	Lat. 2196 N	Total Depth 213.4 m (700*)
Section	-	Logged By D. R. C.
Date Begun October 28, 1979 Date Finished November 2, 1979		

DEPTH	DESCRIPTION	SAMPLE No.	FROM	то	WIDTH of SAMPLE		
<u>75m-87,2m</u>	Altered Endako Q.M: Chloritic, hematitic;		- ···	<u> </u>			<u> </u>
(246-286')	a few narrow veinlets at pyrite/marcasite:						
	becoming more blocky towards end section-				_		
	<u>Calcite on fractures:</u>						
87m-87.6m	Fault: Gouge, chlorite, clay, hematite-						
(286-287.5')	About 60° to C/A			 			
87.6m-107.3m	Altered Endako O.M: Coarse grained pink -					- -	
(287.5-352')	mafics altered to chlorite-considerable						
	diss. hematite - becomes more massive		<u> </u>	_			
	towards end section:				· · · ·		
107.3-108.2m	Healed Breccia: Considerable hematite/						
(352-355')	chlorite, calcite, folliation at 70/80°			İ			
	to C/A			 			
	· · · · · · · · · · · · · · · · · · ·			ļ	<u> </u>		
					↓		
				ļ			
				ł	1		

PROPERTY Ax Group

DIP TEST						
	Λπ	gle				
Footoge	Reading	Corrected				
Casing	-45°					

Diamond Drill Record



Cochrane Consultants Limited

HOLE No. 79-1 Sheet No. 4 OF 6	Loi. 2196 N	Total Depth 213.4 m (700')
Section	Dep. 146 E	Logged By D.R.C.
Date Begun October 28, 1979		Claim Ax-2
Date Finished November 2, 1979	Elev. Collar approx. 808 m	Core Size N. Q.

DEPTH	DESCRIPTION	SAMPLE No.	FROM	то	WIDTH of SAMPLE	Mo ppm	Cu mag
108.2-123.9m	Altered Endako Q.M: Coarse grained pink,	27587	120.4m	123,4m	3,Om	<u>1</u>	3
(355-406.5')	mafics pred. altered to chlorite-						
	considerable hematite: - fairly massive-						ļ
	chlorite/calcite on fractures	!					
123.9-124.5m	Lamp Dike: Black, fine grained groundmass-						
(406.5-408.5)white feldspar phenocrysts to 1 cm diameter						<u> </u>
	diss. pyrite						
124.5-126.2m	Altered Endako Q.M: Moderately well						
(408.5-414')	fractured - chloritic						
126.2-129.3m	Lamp Dike: Good upper contact at 40° to C/A						
(414-424.3')	lower contact at 80° - fine diss.pyrite			 			
129.3-130m	Altered Endako Q.M.						
(424.3-426.5)							
130-132,6m	Lamp Dike: upper contact slightly						}
5	brecciated but rougly 45° to C/A-				!		ļ
	Calcite on joints at 45° to C/A						

PROPERTY AX Group

DIP TEST
Angle
Footage
Reading
Corrected
Casing
-45°

Diamond Drill Record



Cochrane Consultants Limited

HOLE No. 79-1. Sheet No. 5	Lot. 2196 N.	Total Depth233, 4m(700.!.)
Section	Dep	Logged ByD. R. C.
Dote Begun October 28, 1979	Bearing 315°	Claim Ax-2
Dote Finished November 2, 1979	Elev. Coltor approx . 808 m	Core Size N.Q.

DEPTH	DESCRIPTION	SAMPLE No.	FROM	70	WIDTH of SAMPLE		
<u>132.6-134.4m</u>	Altered Endako O.M: biotite/med.course						
(435-441')	<u>grained - pink, fairly massive;</u>						
134.4-137.2m	Lamp Dike: pyrite on fractures-upper						
(441-450')	contact 40° to C/A - lower contact 45°			, , , ,			
137.2-138.7m	Altered Endako Q.M.					 !	
(450-455')	· · · · · · · · · · · · · · · · · · ·						
137.8-140.7m	Lamp Dike: Lower contact at 45° to C/A		· ·				
(455-461.51)							
140.7-143m	Altered Endako Q.M						
(461.5-469')	· · · · · · · · · · · · · · · · · · ·						
143-143.6m	Lamp Dike: Upper contact 70° to C/A						
(469-471')	Lower at 80°						
		· · · ·		· - ·			
· · · ·							

PROPERTY Ax Group

Diamond Drill Record



DIP TEST				
Angle				
Reading	Corrected			
-45				
	An Reading			

HOLE No. 79-1 Sheet No. 6 Of 6	Lot. 2196 N	Total Depth 213.4m (700*)
Section	Dep. 146 E	Logged By D.R.C.
Date BegunOctober 28, 1979	Bearing	Ctoim Ax-2
Dote Finished November 2, 1979	Elev. Collor.approx808m	Core Size N.Q.

DEPTH	DESCRIPTION	SAMPLE No.	FROM	70	WIDTH of SAMPLE	MO MQQ	Cu ppm
143.6-146.8m	Altered Endako Q.M.						
(471-481.5')							
				<u> </u>			
146.8-151m	Lamp Dike: Most joints and lower contact	27588	150.9m	153.9m	3.0m	3	.4
(481.5-495.5')40-50° to C/A - Brecciated lower contact						
151-200.9m	Endako Q.M: Slightly altered - approx. 50%	27589	153.9m	156.9m	<u>3.0m</u>	1	6
(495.5-659')	biotite altered to chlorite: moderately						
	blocky - pink, coarse grained - fractures	27590	181,4m	184.4m	3.Qm	1	3
	approx. 1 decimetre apt. mainly 45° to C/A			 			
	and chloritic - fairly massive						-
	167.6m-173.7m (550-570')						
	shattered, highly altered 179.8-180.7m						
	(590-593')		.				
200.9-202.7m	Fault: Lost 1.8 m (6') of core - gouge						
(659-665')	and blocky either side.				-		
202.7-213.4m	Altered Endako Q.M blocky, broken,	27591	211.8m	213.4m	1.6m	1	2
(665-700')	chloritic - hematitic fractures - slightly						
	more massive towards end.						

PROPERTY____AX_GROUP_____

Diamond Drill Record



Cochrane Consultants Limited

	DIP TEST			
	Angle			
Footage	Reading	Corrected		
casing	-60°			

HOLE No.79-2Sheet No.1Of4LotLine2187N.Total DepthSection79-2Dep100 (m)WOfBLLogged By.Date BegunNovember3.1979Bearing270°Claim

Dote Finished November 7, 1979 Elev. Callor approx. 825 m

Total Depth19	2. Am (500!)
Logged By	D.R.C.
Claim	(-2
Core Size	NQ

DEPTH	DESCRIPTION	SAMPLE No.	FROM	οī	WIDTH of SAMPLE	Mo ppm	Cu ppm
0-4.6m	Casing in overburden						
4.6-12.8m	Weathered Endako Q.M: Pinkish green	27592	4.6m	7.6m	3.0m	10	14
(15-42')	(chloritic) coarse grained-rusty-						<u> </u>
	considerable Fe secondary minerals,						ļ
	presumably some after specularite						ļ
	Broken/blocky-main jt. set at 45° C/A						
·····	Core recovery 80%						
12.8-14m	Fault: gouge, crushed rock - 60° C/A			ļ			[
(42-46')	core recovery 60%						
14-37.8m	Altered Endako Q.M.: a few precent	27593	26 <u>.5</u> m	29.5m	3,0m		2
(46-124')	original biotite almost entirely altered						
	to chlorite: Disseminated magnetite						<u> </u>
	altered to hematite: calcite on						ļ
	fractures - pink, coarse grained fairly						
	massive/homogeneous - more clay alt.						
	at end.						

DIP TEST					
	Angle				
Footoge	Reading	Corrected			
casing	-60°				

Diamond Drill Record



Cochrane Consultants Limited

HOLE No.79-2.Sheer No. 2. of.4 Lot.Line.2187.N.Section79-2.Dep.100 (m).W. of.BLDote BegunNovember.3.1979.Bearing.270°Date Finished November.7.1979.Elev. Cottor approx.825.

Total Depth	152.4m	(500')
Logged By	D.R.C	
Claim	AX-2	
Core SizeN.	Q	

DEPTH	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	
37.8-39.9m	Altered Endako Q.M: 0.2m healed breccia					
(124-131')	at start of section - finer grained					
	at mid section and 2-3 cm gouge at					 1
	end section - gouge at 60° C/A					
	entire section quite blocky and			ļ		
	chloritic				<u> </u>	
39.9-44.8m	Pyritic Endako Q.M.: a few percent					
(131-147')	fracture filling pyrite also in					
	irregular veinlets: mainly with chlorite:					
	Noticable clay alteration of feldspars:					
	Pyrite becomes sparse and diss. at end			1		
	of section.					 l
44.8-51.5m	Altered Endako Q.M: coarse grained, pink,					· · ·
(147-169*)	fairly massive - chloritic - hematitic.					
	Core recovery +90%					
51.5-56.1m	Broken-faulted Section - considerable			ļ	<u> </u>	
(169-184')	clay, gouge - poor core rec.			L		
	Core recovery 50%					

Diamond Drill Record



... Cochrane Consultants Limited

DIP TEST					
Angle					
Reading	Corrected				
-60°					
	An Reading				

HOLE No.79-2Sheet No.3 of 4Line2187 N.Totol Depth152.4m(500')Section79-2Dep.100m W of BLLogged ByD.R.C.Date BegunNovember 3, 1979Bearing270°ClaimAX-2

Date Finished November 7, 1979 Elev. Cotlor. approx. 825 m Core Size NO

DEPTH	DESCRIPTION	SAMPLE No.	FROM	70	WIDTH of SAMPLE	Mo ppm	Cu ppm
56.1-81.1m	Altered Endako Q.M.: same as previous	27594	57.0m	60.0m	3.Om	1	2
(184-266')	sections - healed breccia zone			ļ			
	67.7-68.6m (222-225')			Į			
	odd trace of pyrite - pink, coarse			<u> </u>			
	grained. Core recovery 90%						
81.1-85.6m	Medium Grained Endako Q.M: slight						
(266-281')	phase change - salmon coloured - badly			<u> </u>			
	altered and broken at upper and lower						
	contacts. Core recovery 80%						
	Lower contact 45° C/A						
85.6-92m	Altered Endako Q.M. Fairly massive:	27595	87.5m	90.5m	3.0m	3	2
(281-302')	about 50% of biotite altered to chlorite						
	Core recovery 90%						
92-93.9	Fault: badly broken, gouge, core						
(302-308')	rec. poor. Core recovery 50%						
	·····						

PROPERTY_____AX_GROUP

Diamond Drill Record



DIP TEST Angle Footage Reading Corrected Casing -60°

HOLE No.79-2Sheet No.4. of.4. tot.Line2187. N.Total Depth.152.4m.(500.*)Section.79-2Dep.100m W of BLLogged ByD.R.C.Date Begun November 3, 1979Bearing270°Chim.AX-2Date Finished November 7, 1979Elev. Collar.approx..825. m.Core SizeNQ

DEPTH	DESCRIPTION	SAMPLE No.	FROM	στ	WIDTH of SAMPLE	Mo ppm	Cu ppm
93.9-107m	Altered Endako Q.M: Coarse grained, pink						
(308-351')							
107-110.2m	Fine to Med. Grained Q.M.: finer grained						_
(351-361.5')	<u>phase of Endako - salmon coloured</u>			.			
	Lower contact sharp, chloritic and			 	· · · · · · · · · · · · · · · · · · ·		
	45° C/A						
110.2-113.8m	Course Grained Altered Endako Q.M						
(361.5-373.5))				[
		ļ					
113.8-152.4m	Fine to Med. Grained Casey (?) Q.M.	27596	118.Om	121.0,	3.0m	1	. 2
(373,5-500')	Upper contact cored well, is moderately sharp,						
	(gradational over 1 cm or so) and at						
. .	50° C/A. Hornblende - slightly altered	27597	148.4m	152.4m	4.0m	51	3
	<u>grain size some what variable over 10 (3m)</u>					[
	sections. Traces of fine pyrite on						
	chloritic slips and in knots and clusters,						
	Becomes fairly massive, med. grained and		·				······
	fresher towards end.			· · ·			
	152.4m (500') END HOLE						

Diamond Drill Record



DIP TEST Angle Foologe Reading Corrected ~60° casing

HOLE No. 79-3 Sheet No. 1 Of 5 Lot. 2187 N Section 79-3 Dep. 300 W Date Begun November 9, 1979 Bearing 270° (t)

Dote Finished November 12/79 Eley, Collor approx. 830 m

Totol Depth. 15.1., 5m. (49.7.1)
Logged By D.R.C.
Claim
Core Size N.Q.

DEPTH	DESCRIPTION	SAMPLE No.	FROM	то	WIDTH of SAMPLE	Mo ppm	Сц ррп
0-3.4m	Casing at -60°					·	
0-11')							
3.4-26.4m	Endako Q.M.: Med. to coarse grained,	27598	<u>3.4m</u>	<u>6.4m</u>	3.Om	1	2
(11-86.5')	light pink coloured - mafics						
	predominently biotite - only slightly						
 .	chloritized - quite massive cores well						
	(recovery +90%). Quite homogeneous:						
	Fractures predominently at low angles						
	to C/A and are mixtures of chlorite,						
·-· ·	calcite and hematite.						
26.4-29.3m	Altered Endako Q.M.; biotite completely						
(86.5-96')	chloritized and chlorite content						
	exceeds 10% - Calcite veinlets at 60° C/A						
	traces of fine diss. pyrite.			· · · · - · · · ·			
29.3-44.8m	Endako Q.M.: Biotite, relatively fresh	27599	29.6m	32.6m	3.Om	1	4
(96-147')	massive coarse grained pink.						
			 · · ·				

DIP TEST						
Angle						
Footoge	Reading	Corrected				
casing	-60°					
· · · -	Γ					

Diamond Drill Record



-Cochrane Consultants Limited

HOLE No. 79-3 Sheet No 2 O.E. !		Totol Depth1515m(49.7)
Section 79-3	Dep	Logged By
Dote Begun November 9, 1979	Bearing	Claim AX-3
Date Finished November12/79.	Elev. Collor approx. 830 m	Core SizeN., Q.,

DEPTH	DESCRIPTION	SAMPLE No.	FROM	то	WIDTH of SAMPLE	Mo ppm.	Cu ppm
44.8-45m	Lamp Dike: Broken, gouge			ļ			
(147-147.8')	· · · · · · · · · · · · · · · · · · ·						
	·	_		ļ	[]		
4545.7m	Endako O.M.			ļ	<u> </u>		
(147.8-150')			· ·····	[
45.7-47.7m	Lamp Dike: Porphyritic (white feldspars)	 		[
(150-156,5')	<u>dark black/green ground mass: calcite on</u>						
	fractures: Lower contact sharp at 55° C/A						
47.7-53.6m	Endako Q.M. Only medium grained/becomes					-	
(156.5-176')	more chloritic towards end section.			l	<u> </u>		
	Fairly blocky			 			
53.6-65.8m	Altered Endako Q.M.: Medium grained,	27600	60.0m	63.0m	3.0m	24	2
(176-216')	pink and green, highly chloritic - biotite						
2. 2.	completely altered and chlorite/on		·				
2	fractures broken/blocky core. Recovery			ļ			
	approx. 90%. Apparently a slight						
ا دره ا	decrease in original biotite content -						
	definite diminishment in grain size.			9			

DIP TEST					
	Angle				
Foologe	Reading Corrected				
casing	-60°				
	-				

Diamond Drill Record



Cochrane Consultants Limited

HOLE No. 79-3 Sheet No. 3 01 5	Lot. 2187. N	Tata) Depth151.5m. (49.7.*)
Section 79-3	Dep	Logged By D R . C
Dote Begun November, 9, 1979	-	
Dote Finished November 12/79	Elev. Collor.approx830m	Core Size N, Q,

DEPTH	DESCRIPTION	SAMPLE No.	FROM	το	WIDTH of SAMPLE	Mo <u>ppra</u>	Cu ppm
	Fault gouge 64.2-64.3m (210.5-211')						
<u>65.8-68m</u> (216-223')	Fine Grained Pink O.M.: Upper contact gradational and irregular over 2 dm or so -						
	Calcite veining at low angle to C/A - Lower portion this section rock is mottled - no distinct lower contact.						
	but buggered by open tension vugs						
68-92,4m		27601	90.5m	93.5m	3.0m	1	2
(223-3031)	Same as 53.6-65.8m (176-216') Except uncertain if Endako Phase: rather diff. texture - porphyritic, mottled color: mafics all altered to chlorite, almost no_hematite/magnetite a trace. Grain size somewhat variable: Otz. eyes to 1 cm diameter. Hematitic chloritic (rehealed breccia ?) 86.6-87.8m (284-289') One small gtz veinlet 1 cm wide with moly at 72.5m (238') (Box 13)						

PROPERTY_____AX . GROUP

DIP TEST Angle Footage Reading Corrected Casing -60° Diamond Drill Record



Cochrane Consultants Limited

HOLE No. 79-3. Sheet No. 4. Q.E. 5 Section 79-3		Totol Depth. 151. 5m. (497.) Logged By D.R.C.
	Bearing 270°	Cloim AX-3

ОЕРТН	DESCRIPTION	SAMPLE No.	FROM	τO	WIDTH of SAMPLE		
92.4-92.6m	Fault Gouge: Lower contact razor sharp		<u> </u>	ļ]
(303~303.8')	and at 45° C/A.		-		_		·
02 (100 0-	Altered Endake O.M. Control grained.			<u></u>		• 	<u>-</u>
92.6-100.9m (303.8-331')	Altered Endako O.M. Coarse grained: pink, mafics all altered to chlorite.						
·	The odd very narrow calcite veinlet mainly at 45° C/A.					L	
100.9-103.3m	Altered Endako Q.M. broken, blocky,		 				
<u>(331-339')</u>	faulted, chlorite, hematite, clay				L		_
	alteration.			ļ			
103.3-129.5m		27602	<u>121,0m</u>	124.0m	3.0m	1	2
(339-425')	Altered Endako Q.M.: Biotite entirely					_	
	to chlorite and chloritic joints at						
	50-60° C/A						
129,5-131.7m	Altered Endako Q.M.: broken, blocky		· · · -				
(425-432')	faulted highly altered						
							<u> </u>
				1	[]		

DIP TEST					
	Angle				
Foologe	Reading	Corrected			
casing	~60°				
	1				

Diamond Drill Record



HOLE No. 79-3 Sheet No. 5. 0. 5.	Lot	Total Depth151.5m. (497.)
Section		Logged ByD.R.C.
Dote Begun November 9, 1979	-	
Date Finished November 12/79	Elev. Collar approx. 830 m	Core Size N.Q.

DEPTH	DESCRIPTION	SAMPLE No.	FROM	то	WIDTH of SAMPLE	oM maq	Ču pom
131.7-137.8m	Altered Endako O.M.: Same as 103.3-129.5m						
(432-452')	(339-425')						
			·		 		·····
<u>137.8-151.5m</u>	Pyritic and Altered Endako Q.M.	27603	148.5m	151,5m	3.0m	1	. 2
(457-497')	Slickensided molybdenite on fracture	4		. 			
	at 140.2m (460') Irregular and patchy	_ _		ļ	ļ		
	diss. pyrite - considerable chlorite,						
	very badly altered, broken	_			<u></u>		
			-				
				ļ			
	151.5m (497') END HOLE						
				<u> </u>			
				1			
			l	ļ	<u>. </u>		

Dif TEST Angle Footage Reading Corrected Casing -60° Diamond Drill Record



Cochrane Consultants Limited

HOLE No. 79-4 Sheet No. 1 of 3 Section 79-4		Total Depth. 152., 7m. (502.) Logged By
Date Begun November 13/79	Bearing 270°	Claim Jill NO. 1 Core Size N.Q.W.L.

DEPTH	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	Mo DOM	Cu DDm
0-45.7m	Casing in overburden		! 	-			· · · · · ·
45.7-59.7m	Altered Endako Q.M: highly fractured -	27604	145.7m	48.8m	<u> </u>	28	6
	very blocky/faulted - Coarse grained-pink		(150')	(160')	(10')		
	biotite highly altered to chlorite and						
	yellow sericite - Fault and several cm					- -	
	gouge at 47.9m (157') and at 30° C/A	<u> </u>					
	Fault and gouge at 52.1m (171'),						
	55.5m (182') etc. Many slickensided			[<u> </u>		
	slips. Core recovery 80%	 		<u> </u>	 		
59.7-60m	Fault: Gouge and chlorite 30° C/A					· · · · · · · · ·	
(196-197')		-					
60-84.1m	Altered Endako O. M. Highly fractured,	27605	60m	<u>63.1m</u>	<u>3</u> m	5	6
(197-2761)	traces of diss. pyrite - very narrow		(197)	(207)	(10 ')		
_	qtz. veinlets - (hairlike) Many slips	27606	75.3m	78.3m	Зm	17	5
	hematitic , chloritic, slickensided.		(247')	(257)	(10)		
	Pyrite sparse and patchy - pyrite and	27607	<u>78</u> .3m	81.4m	3m	28	. 3
	fine molybdenite on fractures at		(257')	(267')	(10')		
· · · ·	77 m (251.5'): in micro qtz. veinlet (cont'd)					-	

PROPERTY_____AX_GROUP

DIP TEST Angle Footage Reading Corrected Casing ~60°

•

Diamond Drill Record

Cochrane Consultants Limited

HOLE No. 79-4 Sheet No. 2 Of 3 Section 79-4	Total Depth 152.7m (502*) Logged By D.R.C.
Date Begun November 13/79 Date Finished November 17/79	Claim Jill No. 1

DEPTH	DESCRIPTION	SAMPLE No.	FROM	то	WIDTH of SAMPLE	Mo	Cu DDM
	at 78.2m (256.5'). Trace moly at	27608	81.4m	84.4m	3m	40	4
	80.2m (263'); moly/pyrite on fracture		(267')	(277)	(10')		
	at 81.1m (266') and at 50° C/A;			-			
······································	Moly on slip at 82.6m (271') and 84.1 m]					
	(276')						
· · · · · · · · · · · · · · · · · · ·	81.8-84.1m (266-276') core recovery						
	only 40%						.
84.1-94m	Endako Q.M.: Fairly massive, only slight	27609	84.4m		3m	100<	6
(276-308.5')	alteration, traces of pyrite only		(277')	(287')	(10)		
	Xenoliths at finer grained more mafic	27610	87.5m	90.5m	3m	10	3
	rock - rounded up to 3 dm in diam.		(287')	(297)	(10)		
	Chloritic fractures - Very fine diss.						
	moly - traces chalco						
94-95,3m	Aplite Dike: Fine grained pink, highly						
308.5-312.5)fractured, hard, brittle, traces chlorite						
	and calcite on fractures						
						_ .	
	<u> </u>	·····	· · ·				
	l						

Dif TEST Angle Footage Reading Corrected Casing -60° Diamond Drill Record



_Cochrane Consultants Limited

HOLE No.	.79-4. Sheet No. 3 .0£3	Lat Line 1+75 N.
Section	79-4	Dep 15+50 W,
	November 13/79	
Dote Finished	November 17/79	Elev. Coltor approx

Total Depth1	52,7 <u>m</u>	(502)
Logged By D	R . C	
Cloim Jill	No. 1	
Core Size	Q.W.L.	

DEPTH	DESCRIPTION	SAMPLE No.	FROM	то	WIDTH of SAMPLE	Mo DDM	Cu opm
<u>95.3-112.8m</u>	Altered Endako Q.M: same as section	27611	<u>99.7m</u>	102.7 <u>m</u>	<u>3m</u>	67	11
(312.5-370')	before 94m (308.5'). Pyrite/moly		(327)	(337')	(10')		
	<u>in fractures 102.1m (335')/104.9m (344')/</u>	27612	102.7m	<u>105.8</u> п	3m		<u> 5 </u>
	106.7m (350') fairly massive		(337)	(347')	(10')		
		27613	105.8m	10 <u>8</u> 8n	Зm	3.5	
_		_	(347')	(357)	(10)		
112.8-122.5m	Altered Endako Q.M.: Chloritic and	27.614	108.8m	<u>111.9</u> 0	3m	2	15
	kaolinized moly. on slip at 118.7m		(357')	(367')	(10')		
	(373') - in veinlet at 114.6m (376'):	27615	<u>111.7m</u>	<u>] 14 . 9</u> m	3m	10	<u> </u>
	trace at 117.3m (395') - in 1 cm wide		(367')	(377')	(10)		
	qtz veinlet with chalco at 119.8m	27616	114.9m	118m _	3m	>100	26
	(393') - Slickensided at 120.4m (395')		(377')	(387')	(10')		
122.5-152.7m	<u>Casey Q.M: or finer grained phase at</u>	27617	148.4m	151.5m	<u>3m</u>	_74	6
	Endako - pink - biotite - chloritized		(4871)	(497')	(10)		
	pyrite/moly on fracture at 126.2m						
	(414'), 129.5m (425'), 132.6m (435')						
	134.7m (442'), 139.3m (457'),						
	145.4m (477'): Chloritic slips lower						
	in section - brittle, fractures 1 dm apart						
	END HOLE 152.7m (502.0*)						

APPENDIX II

CERTIFICATE

I, Donald Robert Cochrane, of the Municipality of Delta, British Columbia, do hereby certify that:

- I am a consulting geological engineer with an office at 4882 Delta Street, Delta, B. C.
- 2. I am a graduate of the University of Toronto (1962) with a degree in Applied Geology (B.A.Sc.) and a graduate of Queen's University (1964) with a degree in Economic Geology (M.Sc., Eng.).
- 3. I have practiced my profession continuously since graduation while being employed by such companies as Noranda Exploration Co. Ltd., Quebec Cartier Mines, and Meridian Explorations Syndicate. I have been in private independent practice since 1969.
- 4. I have no interest, either direct or indirect in the properties or securities of Rio Plata Silver Mines Ltd., nor do I expect to acquire any such interest.
- 5. I am a member in good standing of the Association of Professional Engineers (A.P.E.) of the Province of British Columbia, and also a member of the A.P.E. in the Provinces of Ontario, Saskatchewan, Alberta and the Yukon Territories.

Stan

D. R. COCHTANE, P. Eng. January 7, 1980, Delta, B. C.



APPENDIX III

BIBLIOGRAPHY

- Holland, Stuart Annual Report of the Minister 1963: of Mines.
- Carr, J. M.: 1964 and 1965 Annual Reports of the Minister of Mines.
- Hemsworth, F. S. Assessment Report No. 0555 on the 1964: Geochemical Soil Sampling Survey Ax and Bx Mineral Claims
- Armstrong, J. E. G. S. C. Memoir 252 1965:



APPENDIX IV

D. W. Coates Invoices



___ . . .

D.W. COATES ENTERPRISES LTD.

2560 A Simpson Road, Richmond, B.C. V6X 2P9 - Phone: (604) 273-0985

TO:

ł

ĺ

RIO RLATA SILVES MINES LTD. 670 Cochrane cons. Ltd. 4882 delta street	CUSTOMER	STATEMENT DATE
DELTA, B. C. Var 2TR	2730	SO NOV 79

.

	DATE	INVOICE	DETAILS	DEBIT	CREDIT	BALANCE
	31 OCT 79 15 NOV 79 20 NOV 79	1624	INVOICE INVOICE INVOICE	3,735 59 33,140 50 3,669 54		ප, 706, 59 33, 140, 29 වාර්යාව 54
Г						
بے ا_			1]	
-	I		JRRENT 355 810, 23	OVER-DUE		(5,545 SZ

STATEMENT

STATEMENT

D.W. COATES ENTERPHISES LTD.

2560 A Simpson Road, Richmond, B.C. V6X 2P9 - Phone: (604) 273-0985

TO:

2

BIO PLATA SILVER MIDE: 1 TO 5/9 COCHRANE CONS LTD 4882 DELTA STREET DELTA, C .-234 _ 27.2

,	Juna	ence.	()	
<u> </u>		_		

CUSTOMER	STATE	MENTO	DATE
2730	51	ect	75

DATE	INVOICE	DETAILS	DEBIT	CREDIT	BALANCE
38 OCT 74	14.12	INVOICE	8,735,51		8, 736, 59
ļ		·			
			'		
		[
	cu	BRENT	OVER-DUE		
	L		0, 00		8,736,57
			(7		

1		D.W. COATES ENTERPRISES LTD. 2560 A Simpson Road. Bit fimond, B.G. V6X 2P9	JOB NO	i NO. 1615 i 388 ov 13/79
· · · · ·	Rio Plata Silver Mines Lt c/o Cochrane Consultants 4832 Delta Street Delta, B. C. V4K 2T8			
ιE:	Endako area, 8, C. Drilli			
	Cctober 28, 31, 1979			
-	Drilling Detail			\$6,551.60 -
	Water Supply			115.80 1.872.00-
~	Mecilization			
	Travelling Time Drilling with Mud			163.00
-	er innig mien nau			<u> </u>
				\$8,736.59
_				8484 50,-
_			5 	1
_				
				i
~				
				:
_				
		•.		
_ ···				:
				-
				-

Hole=	Size	From	To	Footage	Rate	Amount
79-1	NQ-	0	22	22	\$17.80	\$ 391.6
79-1	NQ	22	372	350	17.60	6160.0
				372		\$6551.60
Water Supj	<u>ply</u>					
Labour & I	Equipment					
Labour & Cate	Equipment Hole≓		fter	n <u>Ö</u>	ManHrs.	
Cate			Her Lay 1600' 1	·	<u>ManHrs.</u> 8	
	Hoìe≓			·		
Date Oct 29D	Hole= 79-1 79-1	tes Enc. Por	Lay 1600' * *	noseline	8	

- 2 -.

_. *

1

.

ı.

_

.

_

Collstove : 42 hrs. 0 1.10/hr. 52.80 \$115.80

. ī

Mobilization

1

(a) <u>Lump Sum</u>

Base to unload point (50% \times 2200.00)

\$1100.00

(b) Labour & Equipment

Date	Мето	ManHrs.	<u>4 x 4</u>
Oct 29D	Unload and move to hole #1	24	2
Oct 30D	Line up drill af cid to	12	-
		7. 1-	
	Labour: 36 hrs. @ 21.00/hr.	756.00	
	4 x 4 : 2 hrs. @ 8.00/hr.	16.00	\$772.00
			\$1872.00
Terusling Time			16.25
<u>Travelling Time</u>			Q - 1 - 1 - 1 - 1

- 3 -

Labour & Equipment

Date	Мето	ManHrs. 4	<u>x 4</u>
Oct 29	Travel to and from drill	2	-
Oct 30	n y r	3	1
Oct 31	11 IP ID	2	1
		7	2
	Labour: 7 hrs. @ 21.00/hr.	147.00	
	4 x 4 : 2 hrs. @ 8.00/hr. -	16.00	\$163.00

Drilling with Mud

× .

[

ſ

.

5

18.08
13.00
31.08
3,11

_ -

\$34.19

D.W. COATES ENTERPRISES LTD.

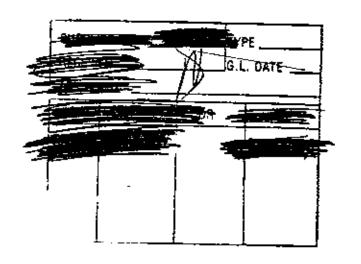
2560 A Simpson Road. Richmond, B.C. V6X 2P9 INVOICE NO.: 1624 JOB NO.: 388 DATE: Nov 23/79

Rio Piata Silver Mines Ltd. c/o Cochrane Consultants Ltd. 4882 Delta Street Delta, B. C. V4K 2T8

1

<u>د</u>	Endako Area, B. C. Brilling		
PERIOD:	November 1 - 15, 1979		
			\$29,697.50
	prilling Detail		
	Gverburden	. :	830.21
	Water Supply		919.98
	Drilling with Mud		324.79
	Ream Casing & Hole Stabiliz	ing	252.80
	Core Boxes		410,41
	Travelling Time	• · · · · · · · · · · · · · · · · · · ·	600.00
	Standby Time		105.00
			133 140 69

\$33,140.69





.

Size	From	То	Footage	Rate	Amount
NQ	372	500	128	\$17.60	\$2252.80
NQ	500	700	200	18.10	3620.00
NQ	0	15	15	17.80	267.00
NQ	15	500	485	17.60	8536.00
NQ	0	וז	11	17.50	195.80
NQ	11	497	486	17.60	8553.60
NQ	0	25	25	17.80	445.00
NQ	25	50	25	18.50	462.50
NQ	50	100	50	20.00	1000.00
ŊQ	100	150	50	Field Cost	
NQ	150	398	248	17.60	4364.80
			1723'		\$29,697.50
	NQ NQ NQ NQ NQ NQ NQ NQ NQ	NQ 372 NQ 500 NQ 0 NQ 15 NQ 0 NQ 11 NQ 0 NQ 11 NQ 0 NQ 25 NQ 50 NQ 100	NQ 372 500 NQ 500 700 NQ 0 15 NQ 15 500 NQ 0 11 NQ 0 11 NQ 0 25 NQ 25 50 NQ 50 100 NQ 100 150	NQ 372 500 128 NQ 500 700 200 NQ 0 15 15 NQ 15 500 485 NQ 0 11 11 NQ 0 11 497 486 NQ 0 25 25 25 NQ 25 50 25 25 NQ 50 100 50 100 50 NQ 100 150 50 25 25 NQ 100 150 50 25 25 NQ 100 150 50 25 NQ 100 150 50 248	NQ 372 500 128 \$17.60 NQ 500 700 200 18.10 NQ 0 15 15 17.80 NQ 0 15 500 485 17.60 NQ 0 15 500 485 17.60 NQ 0 11 11 17.80 NQ 0 11 11 17.60 NQ 0 11 497 486 17.60 NQ 0 25 25 17.80 17.60 NQ 0 25 50 25 18.50 NQ 25 50 25 18.50 NQ 50 100 50 20.00 NQ 100 150 50 Field Cost NQ 150 398 248 17.60

Drilling Detail

•

.

Overburden - Field Cost

(a) Labour & Equipment

Date	Hole#	Мето	ManHrs. Drill	
Nov 14D	79-4	Tricone 100' - 117'	4 2	
Nov 14N	79-4	Tricone 117' - 150'	16 8	
•			20 10	
	Labour:	20 hrs. @ 21.00/hr.	429.00	
	Drill :	10 hrs. @ 18.50/hr.	185.00	
	Pump :	10 hrs. @ 2 x 1.35	27.00	\$632.00

.

(b) <u>Materials</u>

, •

Date	Hole#	Memo	Amount	
Nov 14N	79-4 1	3 7/8" Tricone	\$128.88	
		Plus 15%	19.33	
	Casing Usage:	50'@1.00/ft.	50.00	\$198.21
				\$830.21

<u>Water Supply</u>

(a) Labour & Equipment

Date	Hole#	Memo	ManHrs.
Nov 3D	79-2	Lay 2490' hoseline	2
		Less Coates Ent. Portion $\frac{1200}{2400}$	<u> </u>
Nov 7D	79-3	Lay 2200' hoseline	4
Nov 8D	79-3	Lay 2200' hoseline	4
Nov 9D	79-3	Lay 2200' hoseline	2
Nov 9N	79-3	Thaw frozen hoseline	8
Nov 10D	79-3	((5) (/	18
Nov 12D	79-3	Drain & roll hoseline	4
			40
		Less Coates Ent. Portion $\frac{1200}{2200}$	22 18
			19

Labour:	19 hrs. @ 21.00/hr.	399.00
Coilstove:	264 hrs. @ 1.10/hr.	290.40
Coilstove Fuel:	270 gais. @ .854/gal	230.58

\$919.98

- 3 -

.

Drilling with Mud

, ,

38 Bags Super Gel @ 4.52/bag	171.76	
Freight: 1900# @ 6.50/100	123.50	
	295.26	
Plus 10%	29.53	\$324.79

- 4 -

Ream Casing & Hole Stabilizing

<u>Labour & Equipment</u>

" 2 " 4	! : 2
۲ ۲ ۲	
	2
	_
0	1
00/hr. 168.00	
50/hr. 74.00	
1.35/hr. 10.80	\$252.80
5	0/hr. 74.00

Core Boxes

	84 NQ core boces @ 3.90/box	327.60	
•	Freight: 700# @6.50/100	45.50	
		373.10	
	Plus 10%	37.31	\$410.41

	ر D.W.	COATES ENTERPRISES LTD.	INVOICE NO.: 1638 JOB NO.: 388
Rio, Plata Silver Mines c/o Cochrane Consultant	Ltd.	Richmond, B.C. V6X 2P9	DATE: Dec 11/79
C/O Cochrane Consultant 4882 Delta Street Delta, B. C. V4K 2T8	s Ltd.	· · ·	
Endako Area, 8, C. Dr11 November 16 - 17 1979	ling—	······································	
 Drilling Detail Demobilization Core Boxes Travelling Time			\$1,813.30 1,709.00 97.24 50.00
			\$3,669.54
0ED 1 4 197			

Drilling Dei	tai	1
--------------	-----	---

.

.

Hole#	Size	From	To	Footage	Rate	Amount
79-4	NQ	398	500	102	\$17.60	\$1795.20
79-4	NQ	500	501	1	18.10	18.10
				103		\$1813.30

Demobilization

(a) Lump Sum

٠

Load point to - base (50% x 2200.00)	\$1100.00
--------------------------------------	-----------

(b) Labour& Equipment

Date	Memo	ManHrs.
Nov 16	i Teardown on last hole	8
Nov 17) Haul equipment to load point	21
		29

Labour: 29 hrs. @ 21.00/hr.

\$609.00 \$1709.00 Core Boxes

÷

. •

20 NQ core boxes @ 3.90/box	78.00	
Freight: 160# @ 6.50/100	10.40	
	88.40	
Plus 10%	8.84	\$97.24

Travelling Time

Labour & Equipment

Date	memo	<u>ManHrs. 4 x 4</u>	
Nev 16	Travel to and from drill	2 1	
	Labour: 2 hrs. @ 21.00/hr.	42.00	
	4 x 4 : 1 hr. @ 8.00/hr.	8.00 \$50.	00

.

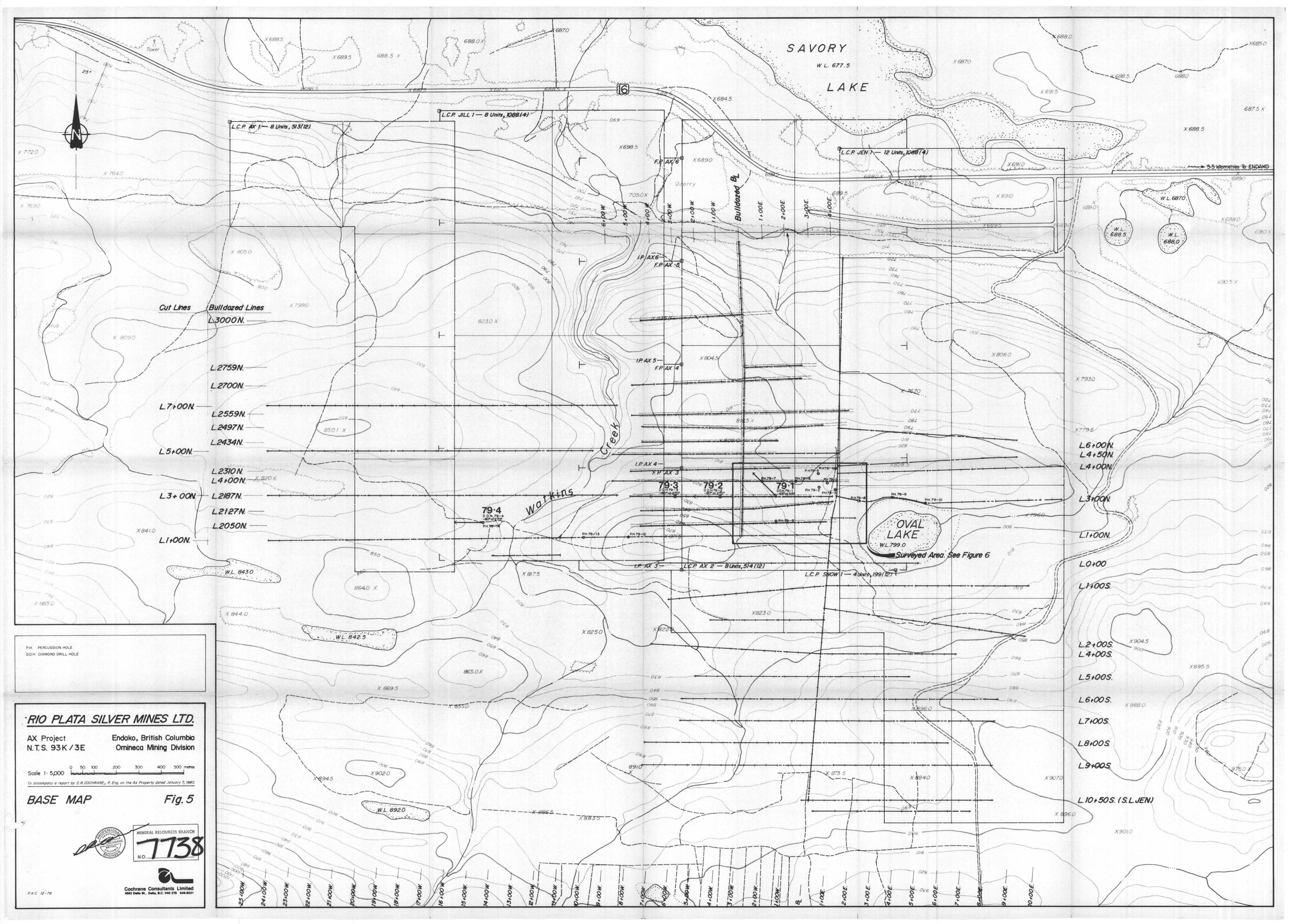
APPENDIX V

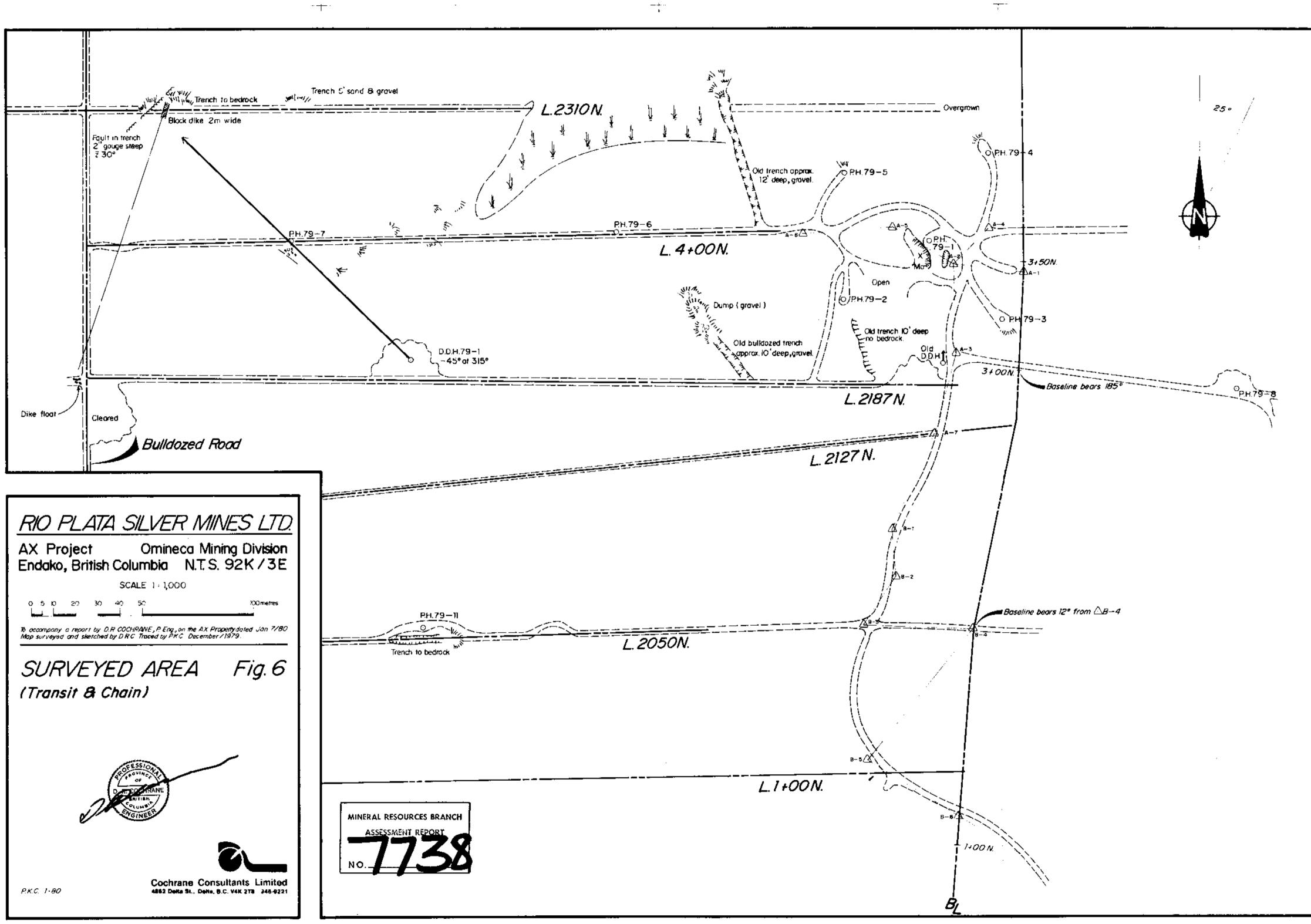
ASSESSMENT WORK DISTRIBUTION

Assessment Work applied to Ax Group (Ax No. 1, 3, 4, Jill 1 and Snow 1) \$ 6,000.00 Assessment Work applied to Jen Group (Ax No. 2, 5, 6, and Jen 1) \$ 5,600.00 Assessment Work applied to Portable Assessment Credit (PAC) Account of Rio Plata Silver Mines Ltd. \$34,346.82 Total Work applied \$45,946.82 Total Diamond Drilling Costs as per statement from D.W. Coates Enterprises Ltd. .. \$45,546.82 Report preparation (partial cost) \$45,946.82



_.___.





·· 十

