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Report on
2003 Surface Drilling
On the

Bralorne Pioneer Mine Property
Cosmopolitan, Cosmopolitan Fraction & Mauser Claims

Lillooet Mining Division

NTS 092J15W
50° 46'N 122°48'W

For:

Bralorne Pioneer Gold Mines Ltd.
Suite 400-455 Granville Street
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26 January, 2004

GEOLOGICAL SURVEY BRANCH
ADVISORY REPORT
27355

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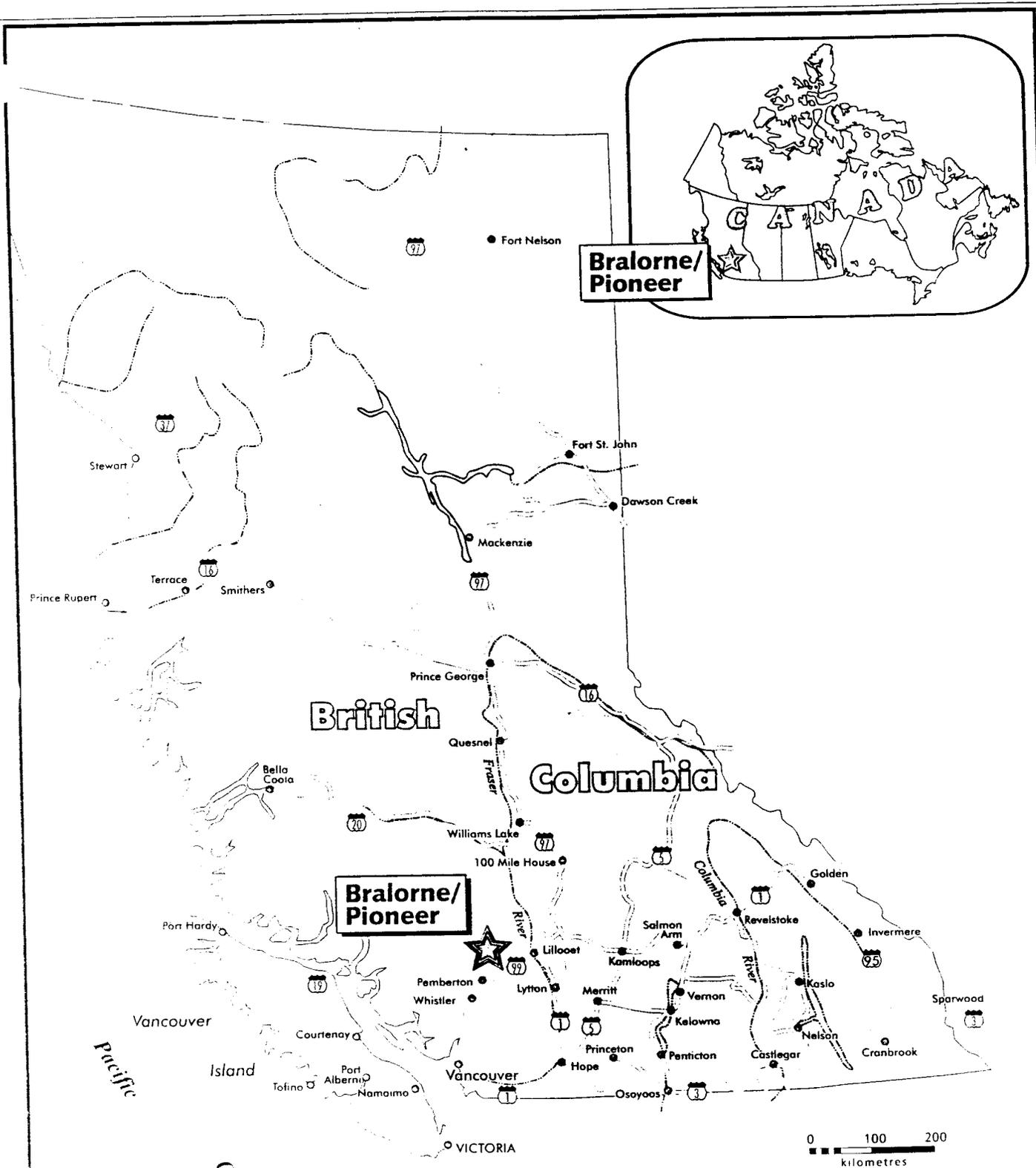
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**Bralorne/
Pioneer**



**Bralorne/
Pioneer**



Bralorne Pioneer Gold Mines Ltd.

Bralorne/Pioneer Property

Lillooet Mining District, B.C., Canada

Location Map

Scale	as shown	N.T.S.	921/15	Figure 1
Date	October 2003	U.T.M. Zone	10	
By	A.G.B.			

INTRODUCTION

A short hole surface diamond drilling program was completed along the surface trace of the Peter Vein system during May, 2003. The drilling was completed on the Cosmopolitan, Cosmopolitan Fraction and the Mauser crown granted mineral claims. The drilling was done in the northeastern sector of Bralorne Pioneer Gold Mines Ltd. extensive property holdings consisting of 163 crown granted mineral claims, 5 reverted crown granted mineral claims and 5 mineral claims covering approximately 2422 hectares. All of these mineral claims are contiguous.

Property Description and Location

The above noted mineral claims are located on National Topographic system map 92J/15W in the Bridge River mining camp, Lillooet Mining Division, British Columbia (Figs. 1 & 2). Approximate latitude and longitude for the centre of the historic workings are 50°46'N, 122°48'W. A list of the claim names and lot numbers or record numbers is included in Appendix A of this report.

The company owns 100% of the property directly and through agreements with International Avino Mines Ltd. All of the company's crown granted mineral claims are in good standing until May 1, 2004. All of the company's reverted crown granted mineral claims and mineral claims are in good standing with the first expiry date being February 28, 2004.

Property Definition

Mining for gold on the Bralorne Pioneer property dates back to the late 1800's when small scale wheelbarrow type mining commenced in the Pioneer portion of the property. Arastras and then stamp mills were used to recover the gold metal from the mined rock. Larger scale production using more advanced mining and milling methods commenced in 1932 and the mines operated at between 150 and 550 tons per day until the last mine closure in 1971.

In 1973 additional work was started in the area of the Peter vein where surface work indicated potential mineralized structures. Surface drilling and trenching located the Peter vein and in 1987 an adit was collared to intersect the structure about 100 feet below surface. 215 feet of drifting on the vein averaged 0.38 ounce per ton gold across an average width of 3.4 feet. In 1995 the company carried out 700 feet of underground drifting on the Peter vein from existing mine workings at the 800 haulage level of the Bralorne mine. In addition underground diamond drilling was carried out to help define the vein between surface and 800 level. The 2003 surface diamond drilling program was directed at obtaining extra information on the Peter vein below the upper level mine workings and also to test the structure along strike both to the north and south of the underground workings. The drilling was successful in intersecting the structure in each hole. Elevated gold values in the vein structure were encountered in each hole also. On these structures the drilling usually locates the structure but does not always yield useful gold content information because of the nugget effect in these veins.

SUMMARY OF DIAMOND DRILL LOG INFORMATION

DDH	Collar	Location	Elev	Az	Dip	Length	From-To	Inter	sections
No.	Mine	Grid	Ft.	°	Deg	Of	Ft.	True	Grade
	E	N				Hole		Width	Opt Au
03SB-01	5,922	14,219	4,350	258	-61	207'	196.3-198	1.2'	0.007
03SB-02	5,581	13,868	4,355	256	-65	287'	254-261.8	4.2'	0.081
03SB-03	5,600	13,360	4,340	282	-61.5	266'	237-244	4.7'	0.030
03SB-04	5,600	13,360	4,340	282	-70	394'	376-377.5	0.8'	0.070
03SB-05	5,706	13,549	4,350	270	-48	336'	274-276	1.7'	Tr.
03SB-06	5,706	13,549	4,350	270	-61	537'	256-258.5	1.7'	0.112
03SB-07	5,712	13,496	4,350	260	-51	421'	329-331	1.5'	0.020
03SB-08	5,712	13,496	4,350	260	-58	507'	294.5-296	1.1'	Tr.
03SB-09	5,555	13,934	4,355	254	-59	258'	211-243.5	16.4'	0.026
03SB-10	5,555	13,934	4,355	254	-69	315'	262-264	1.0'	0.020
03SB-11	5,627	13,026	4,340	225	-61.5	457'	373.5-380.5	4.7'	0.138
03SB-12	5,856	12,841	4,350	225	-54	536'	480.5-486.2	4.4'	0.040
03SB-13	5,576	14,042	4,353	258	-68	344'	325.5-328	1.2'	0.060
03SB-14	5,581	13,868	4,355	258	-70.5	67'	Lost	Hole	
03SB-14B	5,581	13,868	4,355	258	-73	517'	454-461.5	2.8'	0.060
03SB-15	5,581	13,868	4,355	258	-48	225'	157-158.5	1.3'	0.020
TOTAL						5745 ft.			
						1751.5m			

List of claims on which work was actually performed:

1. Cosmopolitan. Lot No. 584
2. Cosmopolitan Fraction, Lot No. 5481
3. Mauser. Lot No. 5457

All three of these claims are crown grants.

List of claims to which this work will be applied:

1. Ace Fr. tag 228403, reverted crown grant, 1 unit.
2. Ogden, tag 228753, reverted crown grant, 1 unit.
3. Ogden 1 Fr, tag 228754, reverted crown grant, 1 unit.
4. McCallum Fr, tag 228759, reverted crown grant, 1 unit.
5. Rosalin Fr, tag 228760, reverted crown grant, 1 unit.
6. Cora Fr. tag 228395, mineral claim, 1 unit.
7. Mead Claim, tag 316338, mineral claim, 4 units.
8. Noel. tag 316574, mineral claim, 15 units.
9. King, tag 316573, mineral claim, 4 units.
10. Carl. tag 322662, mineral claim, 9units.
11. P F Fr.. tag 404758, mineral claim, 1 unit.



LEGEND

- 03-SB-1 Drill hole 2003/2002
- 02-SB-1 Trench 2002
- Access road
- Drill road
- 800 level - Bralorne mine
- Alex** Claim outline & name
- Contours (10m interval)
- Vein

Sheila

Alex

Mauzer

Alex Fr

Savage

Cosmopolitan Fr

Millchuck vein

Star Fr

Cosmopolitan

Noelton Fr

Big Soilly vein

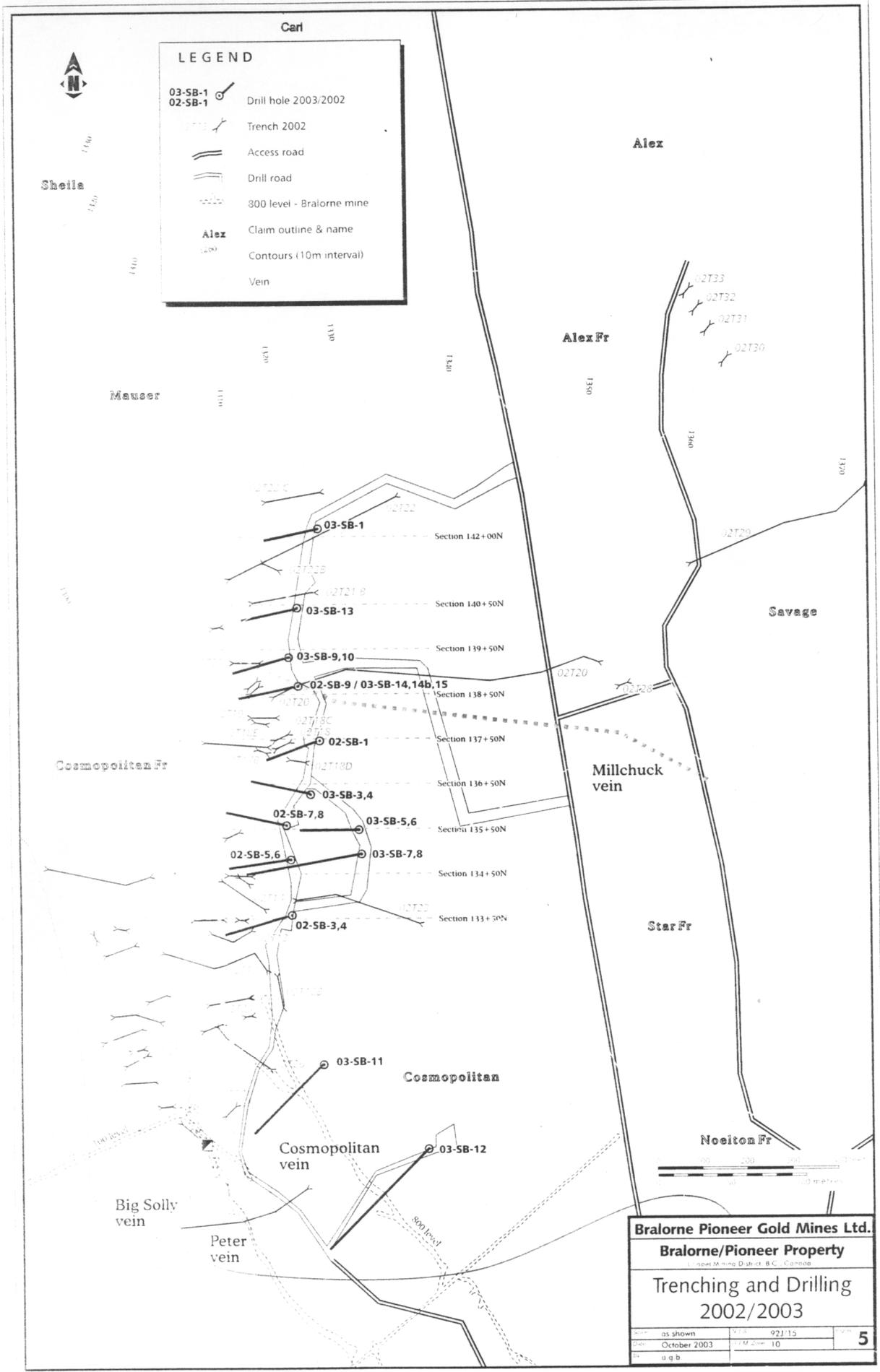
Cosmopolitan vein

Peter vein

Bralorne Pioneer Gold Mines Ltd.
Bralorne/Pioneer Property
 (Lampert Mining District, B.C., Canada)

**Trenching and Drilling
2002/2003**

Scale	as shown	V.P.R.	921-15	5
Date	October 2003	Sheet	10	
By	a g b			



Results, Interpretation and Conclusions

This drilling program, which consisted of 2422 meters in 15 holes, was designed to provide additional information on the Peter vein and associated structures in the area beneath the upper level workings and also along strike to the north and south. The drilling was completed in a very professional manner by F. Boisvenu Drilling Ltd. Overall drilling contractor costs were very reasonable at \$18.46 per foot or \$60.50 per meter. Overall total job costs were \$128,500 which converts to \$22.36 per foot drilled or \$73.36 per meter drilled. The program was designed by Aaron Petipas, and the core was logged and samples split by the same individual. The core, along with the remaining half of the split vein intersections, is stored in racks next to the Bralorne mine office. Samples were shipped to Acme Analytical Laboratories in Vancouver for analysis of metal content. Most of the samples were tested by multi element ICP methods and any samples containing significant gold results from ICP analysis were then analysed by fire assay with metallics screening for more accurate results. Please refer to Appendix B for complete assay analysis sheets.

Only one hole was drilled beneath the upper level underground workings and that hole yielded the best intersection of the program, that being 0.138 ounces per ton gold for a core length of 4.7 feet. Only one hole was drilled to the south and the remainder of the holes were completed on what is thought to be the faulted northerly extension of the Peter vein structure. Intersection values were generally low but strong veins and anomalous gold values were encountered in most of the holes.

This drilling program has generated results and information that is important data required to guide future underground development and production from the Peter Vein structure. No further drilling in this area from surface will be required or undertaken in the foreseeable future. It is recommended that immediate future follow up work on the Peter Vein be done from the underground working levels. This, in fact, is being done as this report is being written.

To conclude, the 2003 surface drilling program has generated very encouraging and useful data that is currently being utilized to help direct further underground exploration and development activities on the Peter Vein structure.

STATEMENT OF COSTS

1. Drilling Costs, as invoiced by F. Boisvenu Drilling	\$106,055.00
2. Geologist costs, 1 man, 30 days at \$200/day	6,000.00
3. Room and food costs, 30 days at \$100/day	3,000.00
4. Field transportation, 30 days at \$50/day	1,500.00
5. Assays, Acme Analytical Laboratories invoice	10,453.00
6. Final Report, 1 man, 3 days at \$500/day	<u>1,500.00</u>
TOTAL	\$128,508.00

STATEMENT OF QUALIFICATIONS

I, Aaron R. Pettipas, of Bralorne, British Columbia, Canada, do hereby certify that:

1. I am a graduate of St. Mary's University, Halifax, Nova Scotia, Canada, with a B. Sc. in geology, 1989.
2. I have practised my profession as a geologist since 1987.
3. I was responsible for the layout and implementation, core logging and sample splitting for the subject drilling program of this report.
4. To the best of my knowledge, the information presented in the appended core logs and in the report in general, is correct and accurate.

Signed at the Bralorne Minesite, January 26, 2004

A. R. Pettipas

Statement of Qualifications

I, Henry A. Sanche, Professional Geologist, with a home office address of R. R. 1, Ferintosh, Alberta, Canada, T0B 1M0 certify that:

1. I am a graduate of the University of Alberta, Edmonton, Alberta, 1963, and hold a Bachelor of Science degree in Geology.
2. I have practised my profession as a geologist since 1963.
3. I am registered as a Professional Geologist with the Association of Professional Engineers, Geologists and Geophysicists of Alberta since 1967 and more recently with the equivalent association in the Northwest Territories.
4. This report is written from experience gained since September, 2003, as Vice President Exploration for Bralorne on the Bralorne project and from available documentation on the 2003 drilling program.
5. I am the sole author of this report.
6. Other than two unexercised Bralorne stock options, I hold no interest in the properties or securities of Bralorne Pioneer Gold Mines Ltd.
7. To the best of my knowledge, the information presented in this report is correct and accurate.

Signed at the Bralorne Minesite, January 26, 2004,

H. A. Sanche, P. Geol.

APPENDIX A

List of Mineral Claims

CLAIM DESCRIPTION

The Bralorne property is located in the Lillooet mining division and is composed of 154 crown grants, 5 reverted crown grants, 4 metric unit claims.

The property holdings are as follows:

CROWN GRANTS

<u>Name</u>	<u>Lot No.</u>	<u>Acres</u>	<u>Name</u>	<u>Lot No.</u>	<u>Acres</u>
Cosmopolitan	584	16.33	Marquis	586	24.50
Virginia	5455	5.77	Golden King	587	45.44
Noelton Fr.	5466	19.70	Lorne	588	50.25
Mauser	5457	12.54	Alhambra	665	24.65
Carl	5458	0.91	Night Hawk	666	28.25
Alex	5459	15.61	Lurgan Fr. No. 1	667	3.62
Matthew	5460	12.60	Lurgan Fr. No. 2	668	8.55
John	5461		Metropolitan	669	32.83
Kathleen	5462	20.89	Telephone	670	28.70
Raymond	5463	16.60	Wood Duck	671	24.58
Savage	5464	19.96	Exchange Fr.	673	21.85
Winchester	5465	14.05	Blackbird	1176	37.70
Lee Metford	5466	11.73	Countless	1177	44.30
Carbine	5467	12.11	Nellie	1179	39.50
Star No. 1 Fr.	5925	8.48	Whip Poor Will	1221	44.00
Edna Mary	5920	18.41	Duke	1222	19.00
Alex Fr.	5921	2.34	Royal	1224	23.70
Alex No. 2 Fr.	5922	2.44	Leroy	1225	39.30
Raymond Fr.	5923	1.86	Maud S Fr.	1226	30.50
Star Fr.	5924	10.04	Silver Dollar	2372	46.62
Blue Jay	6466	14.80	Golden Ribbon	2374	50.00
Pioneer	456	51.14	Alma	2375	34.97
Ida May	457	45.71	Union Fr.	2376	45.86
Nellie Fr.	458	1.14	Gold Queen Fr.	2377	45.11
Mary Fr.	459	35.21	Silver King	2378	37.61
Trio Fr.	460	44.66	Motherlode Fr.	2379	27.52
Little Joe	539	51.65	Andy Fr.	2380	10.69
White Crow	540	42.64	Don F	2381	48.98
Bend'Or Fr.	541	5.50	Don C	2382	19.11
Jim Crow Fr.	542	0.90	Don A	2383	25.63
Delighted	543	26.22	Don E	2384	38.11
Woodchuck	579	38.20	Don B	2385	13.73
Copeland	580	24.61	Robin	2387	5.89
Hiram	581	42.35	Rainier	2388	42.41
			Tacoma	2389	31.63

<u>Name</u>	<u>Lot No.</u>	<u>Acres</u>	<u>Name</u>	<u>Lot No.</u>	<u>Acres</u>
Seattle	2390	16.68	Buck Fr.	5525	2.36
Nugget King	2393	51.65	Millbank	5582	50.34
Don Z	2394	5.47	Great Divide Fr.	5591	3.01
Sunset	3045	47.19	Development No. 2	5594	18.94
Great Fox	3046	51.65	Development No. 1	5595	27.89
East Pacific	3047	51.30	Development No. 2A	5596	46.91
Clifton	3048	51.65	Development No. 3	5597	49.36
Corasand	3049	41.27	Development No. 4	5598	47.63
Emmadale	3050	44.00	Sunbeam	5742	26.53
Union Jack Fr.	3051	9.25	Comstock No. 5	5743	24.86
Titanic Fr.	3053	9.15	Comstock No. 2	5744	28.88
Invincible	3091	40.49	Homestake	5745	25.14
Leon No. 1	5323	27.27	Sunshine	5745	37.20
Leon Fr.	5324	23.59	Comstock No. 3	5747	35.48
Leon No. 2	5325	50.25	Lorenzo	5748	35.05
Leon No. 3	5326	48.00	Orion NO. 4	5750	49.05
Leon No. 4	5328	34.55	Orion NO. 4	5751	13.06
Victor Fr.	5331	8.84	Comstock No. 8	5752	43.52
Hiram Fr.	5332	0.27	Comstock No. 7	5754	26.27
Eagle Fr.	5468	23.18	Comstock No. 6	5755	12.38
Eagle	5469	34.58	Turret Fr.	6037	3.43
Eagle No. 1	5470	49.79	Gold King	6038	21.77
Lucky Boy Fr.	5475	8.41	Eagle	6039	26.35
Bessie Fr.	5476	39.15	White Star	6040	32.83
Savoy	5477	45.70	Anne Fr.	6041	21.68
Empire Fr.	5478	20.06	Don C Fr.	6044	9.84
Eureka	5479	40.70	Robin Fr.	6045	4.54
Cascade Fr.	5480	26.43	Maria Fr.	6048	31.99
Cosmopolitan Fr.	5481	25.93	Diane	6830	49.05
Duke Fr.	5482	3.90	Heather Fr.	6839	14.78
Coronation Fr.	5483	0.76	Carol Fr.	6840	40.80
Polnud	5484	47.54	Lee Fr	6945	0.18
Mack Fr.	5485	40.65	Am	6946	33.84
Night Hawk Fr.	5486	2.17	Beef Fr.	6947	44.73
Polnud Fr.	5487	1.54	Deep Fr.	6948	29.40
Pasadena Fr.	5488	7.70			
Telephone Fr.	5489	11.42	Ace Fr	228403	1 Unit
Monica Marjorie	5508	42.40	Ogden	228753	1 Unit
A Fr.	5517	6.92	Ogden 1 Fr.	228754	1 Unit
Hilda	5518	43.03	McCallum Fr.	228759	1 Unit
B Fr.	5519	2.77	Rosalin Fr.	228760	1 Unit
Margaret	5520	37.69	Cora Fr.	228395	1 Unit
Hope	5521	38.88	Mead	316338	4 Units
David	5522	12.50	Noel	316574	15 Units
Jack	5523	38.08	King	316573	4 Units
Annette Fr.	5524	21.39	Carl	322662	9 Units
			P F Fr.	404758	1 Unit

APPENDIX B

Diamond Drill Core Logs

DEPTH		LOG	DESCRIPTION	Sample No.	FROM	TO	CORE INT.	SAMP INT.	Au	Ag		
FROM	TO											
0	10		CASING, no core recovered									
10	26		BRALORNE INTRUSIVE (diorite) May be closer to gabbro in composition. Medium to coarse grained, inhomogenous, highly mafic.									
26	39		20-20.5 Minor quartz stringer zone. Veining at 60 deg to core axis with py, aspy. ALBITITE DYKE Fine grained, very light grained grey in centre with coarser grained outer margins. Sharp upper and lower contacts at 50 deg to core axis.									
39	50		BRALORNE INTRUSIVE (diorite) As at 10 to 26 ft.									
50	64		ALBITITE DYKE Typically fractured and blocky. Very light grey.									
64	82		BRALORNE INTRUSIVE (diorite) As described above. Sharp contacts at 50 deg									
82	92		ALBITITE Slightly darker than previous.									
92	102.5		BRALORNE INTRUSIVE (diorite) As at 64 to 82'									
102.5	122		ALBITITE Medium grey, inhomogenous, porphyritic.									
122	166		BRALORNE INTRUSIVE (diorite) Highly altered sections from 131 to 142 and from 143 to 150. Bleached zones.									
166	207		MIXED DIORITE AND SEDS Diorite with coarse felsic grains, maroon to green, with chloritized and biotitized fine grained mafic material mixed with scattered sections of silicified ribbon chert, Too mixed to log separately.	177789	216.5	217.6	1.1		0.01			
				177790	217.6	219.5	1.9		0.01			
207	218		FERGUSSON SEDS. Almost white, quartz like, thin chloritic laminations each 2 Last 3 ft with minor pyrite.	177791	219.5	221	1.5		Tr.			
				177792	221	223	2		0.01			
218	237		BRALORNE DIORITE Very highly altered to irregular lower contact at min zone	177793	237	239.2	2.2		0.08			
237	254		MINERAL ZONE Quartz flooded zone with varying amounts of quartz containing scattered py, aspy to 5%. Gougey fault zone 240 to 242.	177794	239.2	240.8	1.6		0.01			
				177795	240.8	243	2.2		0.01			
244	266		SERPENTINITE Chloritic, soapy, schistose material without sulphides	177796	243	244.5	1.5		0.01			
E. O. H. At 266'												

DRILL HOLE RECORD COMPANY	CLAIM Esme Cosmopolitan F	BEARING	DIP	SURV	CORE SIZE	NQ	HOLE # 03SB-03
BRALORNE PIONEER	LOCATION Surface	282deg	-61.5 deg		STARTED	8 May 03	SHEET: 1 OF 1
PROJECT Peter Vein, surface	ELEVATION 4340				COMPLETED	9 May 03	FINAL DEPTH 266'
UNITS feet	LATITUDE 13630 N				LOGGED BY: A. Petipas		
	DEPARTURE 5600 E						

DRILL HOLE RECORD		CLAIM Cosmopolitan Fr.		BEARING	DIP	SURV	CORE SIZE NQ	HOLE # 03SB-04	
COMPAN BRALORNE PIONEER		LOCATION Surface	COLLAR	282 deg	-70 deg		STARTED 10 May 03	SHEET: 1 OF 1	
PROJECT Peter Vein Surface		ELEVATION 4340					COMPLETED 11 May 03	FINAL DEPTH 394'	
UNITS feet		LATITUDE 13 36 0 N					LOGGED BY: A. Petipaw		
		DEPARTURE 5600 E							

DEPTH		LOG	DESCRIPTION	Sample No.	FROM	TO	CORE INT.	SAMP INT.	Au	Ag		
FROM	TO											
0	10		CASING No core recovered	183562	194.6	195.8	1.2		0.07			
10	19		BRALORNE INTRUSIVE (diorite) Kaolinized, surface weathered diorite.	183563	195.8	197	1.2		0.03			
19	58.5		ALBITITE Light grey, typically blocky with soapy fractures, occasionally with foot inclusions of diorite.	183564	197	199	2		0.11			
				183565	199	200.2	1.2		Tr.			
58.5	194.5		MIXED ALBITITE and DIORITE Alternating layers of each with occasional and intermixing as at 78 to 80.5. Contacts where readable are at 45deg. Little t	183566	309.5	310.8	1.3		0.01			
			quartz or sulphides.	183567	310.8	312.4	1.6		0.01			
				183568	315.5	317	1.5		Tr.			
194.5	200		MINERALIZED QUARTZ VEIN. In fault or shear zone with 5 to 10% py, aspy.	183569	317	318	1		Tr.			
			Broken rock and grey clayey gouge.	183570	319.5	323	3.5		0.03			
200	279		MIXED ALBITITE and DIORITE Alternating layers of each with occasional mixing. Rare quartz stringer. Lower contact at 45 deg.	183571	323	324.5	1.5		0.01			
				183572	324.5	327	2.5		0.01			
279	384		BRALORNE INTRUSIVE (dio ite) Occasional intense alteration with up to 20% quartz in distinct alteration zones with significant py, aspy up to 5%.	183573	361	362	1		Tr.			
			Gougey fault zone from 349 to 352. Quartz stringer zones and individual veins	183574	362	363.3	1.3		Tr.			
				183575	363.3	366	2.7		Tr.			
384	394		SERPENTINITE Melange of talc, serpentine and quartz with no obvious mineralization.	183576	366	368.3	2.3		Tr.			
				183577	368.3	369.3	1		Tr.			
				183578	369.3	371.4	2.1		Tr.			
				183579	371.4	373	1.6		0.01			
				183580	373	374.2	1.2		Tr.			
			E. O. H. At 394	183581	374.2	376	1.8		0.01			
				183582	376	378	2		0.07			
				183583	378	381.8	3.8		0.01			
				183584	381.8	383.8	2		0.01			
				183585	383.8	385.8	2		Tr.			

DRILL HOLE RECORD		CLAIM Cosmopolitan Fr.		BEARING	DIP	SURV	CORE SIZE NQ	HOLE # 03SB-07	
		LOCATION Surface	COLLAR:	260 deg	-51 deg		STARTED 14 May 03	SHEET: 1 OF 2	
COMPAN' BRALORNE PIONEER		ELEVATION 4350					COMPLETED 16 May 03	FINAL DEPTH 421'	
PROJECT Peter Vein Surface		LATITUDE 13496 N					LOGGED BY: A. Petipas		
UNITS feet		DEPARTURE 5712 E							

DEPTH		LOG	DESCRIPTION	Sample No.	FROM	.TO	CORE INT.	SAMP INT.	Au	Ag		
FROM	TO											
0	12		CASING No core recovered									
12	215		BRALORNE INTRUSIVE (diorite) medium grey, fine to medium grained									
			44.5' 1" qtz vein at 20 deg to core axis, not mineralized.									
			51.5-54.5 Alteration zone, inhomogenous obliteration of granoblastic texture									
			A few thin white qtz stringers.									
			106.5-107.5 Mineralized zone with 1" white qtz veinlet in very altered, highly pyritized diorite. Vein at 40 deg to core axis.									
			119-120 Alteration zone with some qtz veining with dark bands of fg sulphides	183606	300.2	302.5	2.3		0.03			
			Qtz banding at 60 deg to CA.	183607	302.5	304	1.5		0.01			
			134-137 Similar alteration zone but without qtz.	183608	304	306	2		Tr.			
			163-166 Alteration zone with 4" quartz in gougey material. Qtz is banded.	183609	306	307.5	1.5		0.01			
215	231.5		FERGUSSON SEDS Hornfeldsed ribbon chert, minor quartz, chlorite, schisty.	183610	309.5	314	4.5		Tr.			
231.5	290		BRALORNE INTRUSIVE (diorite) medium grey, fine to medium grained	183611	314	319	5		Nil			
290	329		ALBITITE Light to medium grey, very fine grained with slight apple green tint	183612	319	323.5	4.5		Nil			
			places. At 299.5 a pyrite rich alteration zone begins. Also coarse occasional as	183613	323.5	325.2	1.7		0.05			
			crystals noted. Lower contact abrupt at quartz vein at 45 deg.	183614	325.2	326	0.8		0.01			
			329-331 Quarz vein, banded with minor sulphides and some graphite. Possibl	183615	326	328.3	2.3		Tr.			
			Cosmopolitan vein.	183616	328.3	331	2.7		0.02			
329	365.5		BRALORNE INTRUSIVE (diorite) medium grey, fine to medium grained	183617	331	332.5	1.5		Tr.			
			At 345', a narrow brecciated alteration zone.									
			347-354 Small albitite dyke, partly apple green, minor py.	183618	364	365.5	1.5		Nil			
			354.5-365.5 very altered diorite. difficult to recognize rock type. Minor sulph.	183619	365.5	367.5	2		0.06			
365.5	370		MINERALIZED QUARTZ VEIN Brecciated, banded, 20% fine grained sulphide	183620	367.5	369.5	2		0.09			
			with rectilinear fractures. Contacts are indistinct.	183621	369.5	371	1.5		0.01			

DEPTH		LOG	DESCRIPTION	Sample No.	FROM	.TO	CORE INT.	SAMP INT.	Au	Ag	.	.
FROM	TO											
0	12		CASING No core recovered.									
12	226		BRALORNE INTRUSIVE (diorite) Fine to medium grained grey to dark grey									
			34-35' Albitite dyke, Fine grained dark grey dyke with scattered pyrite. Contacts at 45									
			45.5-58' Albitite dyke mixed with diorite.	183632	393	394.2	1.2		Tr.			
			67' Diorite becomes distinctly coarser grained.	183633	394.2	396.2	2		0.01			
			89-89.1 Pinkish white qtz carb vein at 30 deg to core axis.	183634	396.2	397.3	1.1		Tr.			
			100-101 alteration zone with 3" banded qtz vein at 30 deg, minor py	183635	397.3	398.5	1.2		0.01			
			144-145' Alteration zone with 5" banded qtz vein, minor sulphides	183636	398.5	399.3	0.8		Tr.			
			172.5-175 Intense alteration zone with 6-8" banded graphitic qtz stringer	183637	399.3	402	2.7		0.03			
			181-181.5 3" qtz stringer at 45 deg, minor sulphides	183638	402	403.6	1.6		Tr.			
			186-224 Mixed diorite and gabbro, brecciated in places	183639	403.6	404.6	1		Tr.			
			225-226 Altered zone with poorly mineralized qtz carb vein at 60 deg to core axis.									
226	253		GABBRO DYKE Chloritized and altered mafic dyke with irregular contacts.	183640	433.5	434.2	0.7		0.01			
253	347.5		BRALORNE INTRUSIVE (diorite) Fine to medium grained grey to dark grey	183641	434.2	435	0.8		Tr.			
			253-254.5 Very altered diorite with 15% pyrite and minor aspy, silicified	183642	435	435.5	0.5		Tr.			
			271-278.5 Silicified diorite, gret to green, brecciated and resealed with qtz, minor py									
			278.5-287 Albitite dyke with irregular contacts.	183643	474.7	476.4	1.7		0.03			
			306.5-309 Similar albitite dyke but with well defined contacts at 70 deg to CA	183644	476.4	480	3.6		Nil			
			337-338 Alteration zone containing 1" quartz vein with scanty sulphides.	183645	480	481	1		0.02			
347.5	385		ALBITITE DYKE Light colored, plagioclase rich. Upper contact sharp at 65 deg	183646	481	482.4	1.4		0.01			
			Lower contact is poorly defined into diorite.	183647	482.4	484.4	2		0.02			
385	469.5		BRALORNE INTRUSIVE (diorite) Fine to medium grained grey to dark grey	183648	484.4	486.8	2.4		0.01			
			394.5-396 Quartz Vein, banded, 5% py, irreg contacts	183649	486.8	489	2.2		0.01			
			434.5-435.5 Quartz Vein with minor sulphides in altered zone.	183650	489	492.2	3.2		0.01			

DRILL HOLE RECORD		CLAIM: Cosmopolitan Fr.		BEARING	DIP	SURV	CORE SIZE	NQ	HOLE # 03SB-08		
COMPAN BRALORNE PIONEER		LOCATION Surface	COLLAR:	260 deg	-58 deg		STARTED 16May 03	SHEET: 1 OF 2			
PROJECT Peter Vein Surface		ELEVATION 4350					COMPLETED 18 May 03	FINAL DEPTH 507'			
UNITS feet		LATITUDE 13496 N	DEPARTURE 5712 E		LOGGED BY : A. Petipas						

DEPTH		LOG	DESCRIPTION	Sample No.	FROM	.TO	CORE INT.	SAMP INT.	Au	Ag	.	.
FROM	TO											
0	12		CASING No core recovered.									
12	91		BRALORNE INTRUSIVE (diorite) Medium grained, grey with occasional chlorite sections	183658	184.5	187	2.5		0.01			
			42.5-47 Alteration zone with 2" quartz veinlet banded with py, aspy	183659	187	189	2		0.04			
			47-51 has occasional fine qtz veining	183660	189	190.4	1.4		Tr.			
			87-91 variable diorite with xenoliths of Fergusson seds up to 2"	183661	190.4	191.4	1		0.01			
91	106.5		FERGUSSON SEDS Alternating thin layers of chert and biotite/chlorite schist.	183662	191.4	193.2	1.8		Tr.			
106.5	256		BRALORNE INTRUSIVE (diorite) Medium grained, grey with occasional chlorite sections. Upper contact not well defined.	183663	193.2	195.5	2.3		0.04			
			122' one foot inclusion of Fergusson seds with sharp lower contact at 70 deg.	183664	205	206.7	1.7		0.03			
			144' short section brecciated, quartz flooded, no significant min'n.	183665	206.7	208.3	1.6		0.02			
			152-163 Alteration zone to f.g. greenish color. No significant assoc. mineral.	183666	208.3	210	1.7		Tr.			
			183-193 Significant alteration zone with minor associated quartz veining and py aspy and mariposite. Quartz veining at 60 deg to CA	183667	210	211	1		Tr.			
			205-211 Alteration zone with minor quartz veining containing minor py, aspy and mariposite.	183668	211	212.6	1.6		0.03			
			211-214 Banded Quartz Vein competent and well mineralized with 3-5% py and as fine grained masses and along bands. Upper contact sharp at 45 degrees.	183669	212.6	214	1.4		0.06			
			229-230 50% quartz as stringers, mineralized with py, aspy.	183670	214	216.5	2.5		0.03			
			235-236 Quartz vein, well banded with 5% py and aspy. Contacts not defined.	183671	216.5	217.8	1.3		0.05			
			239.5-240.5 Quartz vein very similar to 235-236'	183672	217.8	219.5	1.7		0.02			
			242-245 Diorite is highly altered with many small quartz stringers interspersed throughout. 3% py in wallrock plus py and aspy in quartz veinlets	183673	219.5	221.8	2.3		0.02			
				183674	221.8	224.2	2.4		0.01			
				183675	224.2	225.5	1.3		Tr.			
				183676	225.5	227	1.5		0.01			
				183677	227	228.8	1.8		0.05			
				183678	228.8	231	2.2		Tr.			
				183679	231	232.2	1.2		0.01			
				183680	232.2	235.5	3.3		Tr.			

DRILL HOLE RECORD		CLAIM: MAUSER		BEARING	DIP	SURV	CORE SIZE	NQ	HOLE # 03SB-09
COMPAN' BRALORNE PIONEER		LOCATION surface	COLLAR	254 deg	-59 deg		STARTED 18 May 03		SHEET: 1 OF 2
PROJECT Peter Vein Surface		ELEVATION 4355					COMPLETED 20 May 03		FINAL DEPTH 258'
UNITS feet		LATITUDE 13934	N				LOGGED BY: A. Petipas		
		DEPARTURE 5555	E						

DRILL HOLE RECORD		CLAIM: MAUSER		BEARING	DIP	SURV	CORE SIZE	NQ	HOLE # 03SB-10
COMPAN' BRALORNE PIONEER		LOCATION surface	COLLAR:	254deg	-59deg		STARTED 20 May 03		SHEET: 1 OF 2
PROJECT PETER VEIN surface		ELEVATION 4335					COMPLETED 21 May 03		FINAL DEPTH 315'
UNITS feet		LATITUDE 13934 N					LOGGED BY: A. Petipas		
		DEPARTURE 5555 E							

DEPTH		LOG	DESCRIPTION	Sample No.	FROM	.TO	CORE INT.	SAMP INT.	Au	Ag		
FROM	TO											
0	12		CASING No core recovered.									
12	242		BRALORNE INTRUSIVE Medium grained grey to dark grey with varying degrees of alteration.									
			29-33' Alteration zone with 1" quartz vein in centre at 30 deg to CA.									
			52-55' Alteration zone with well pyritized 3" irregular quartz vein.									
			60.5-71' Alteration zone, chloritic, fine grained.									
			96-101 Diorite with frequent alteration and xenoliths of mafic rock, both sharply defined and partly assimilated.									
			167.5-168.5 Very chloritized diorite with occasional patchy quartz and minor sulphides									
			186-189.5' Alteration zone, chloritized fractures, weak banding evident, f.g. sulphides.	183685	238.4	241.5	3.1		0.02			
			203.5-205 Alteration to fine grained dark green grey, about 5% quartz with some sulphides.	183686	241.5	246.4	4.9		Tr.			
				183687	246.4	248	1.6		Tr.			
			212-215.5 Felsic segment where feldspars have changed to yellow, chloritic alteration.	183688	248	249	1		0.03			
			219-220 Altered zone with 1" quartz stringer at 70 deg to CA, minor py.	183689	249	251	2		0.05			
			239-242' Altered felsic diorite with fine grained py filled fractures.	183690	251	253	2		0.04			
242	247		FERGUSSON SEDS mixed with diorite, hornfelsed thinly laminated chert and biotite schist.	183691	253	255	2		0.03			
				183692	255	257.7	2.7		Tr.			
247	289.5		BRALORNE INTRUSIVE Medium grained grey to dark grey with varying degrees of alteration.	183693	257.7	259	1.3		0.01			
			247-247.5 Banded, unmineralized quartz vein at 80 deg to CA.	183694	259	261	2		0.01			
			255.5-257.5 Very altered zone with 20% irregular quartz veining with 5% py and mostly in the altered diorite rather than in the quartz.	183695	261	262.4	2.4		0.04			
				183696	262.4	264.8	2.4		0.02			
			259.5 Main zone of alteration and quartz veining begins.	183697	264.8	266.8	2		0.01			
			260-26.5 Quartz vein with much py and aspy and mariposite, irregular contacts.	183698	266.8	269	2.2		Tr.			
			262.5--264 Irregularly banded quartz vein with minor sulphides.	183699	269	271	2		0.02			

DRILL HOLE RECORD		CLAIM: COSMOPOLITAN		BEARING		DIP		SURV		CORE SIZE NQ		HOLE # 03SB-11	
COMPAN' BRALORNE PIONEER		LOCATION	Surface	COLLAR 407'	225	-62 deg	-60.5 deg	acid test	STARTED 21 May 03		SHEET: 1 OF 2		
PROJECT Peter Vein surface		ELEVATION	4340						COMPLETED 24 May 03		FINAL DEPTH 457'		
UNITS feet		LATITUDE	13026						LOGGED BY : A. Petipas				
		DEPARTURE	5627										

DEPTH		LOG	DESCRIPTION	Sample No.	FROM	.TO	CORE INT.	SAMP INT.	Au	Ag		
FROM	TO											
0	10		CASING No core recovered.									
10	21		BRALORNE INTRUSIVE (diorite) Medium to fine grained, medium grey color.	183710	112	113	1		Tr.			
21	38		FERGUSSON SEDS Gougey upper contact at 45 degrees. Thinly layered che	183711	113	114	1		Tr.			
			and biotite/chlorite schist. Lower contact at 75 degrees.	183712	114	115	1		Tr.			
38	61		BRALORNE INTRUSIVE (diorite) Medium to fine grained, medium grey color.	183713	372	373.5	1.5		Tr.			
			46.5-47.5 Alteration zone containing 1" unmineralized quartz veinlet at 30 degr	183714	373.5	375	1.5		0.2			
			Lower contact is not well defined.	183715	375	376.5	1.5		0.14			
61	349		FERGUSSON SEDS Mostly fine grained , light colored, silicious layered rock.	183716	376.5	378.5	2		0.12			
			112.5-116 Alteration zone with 2" gouge and 6 inch brecciated quartz, minor p	183717	378.5	380.5	2		0.11			
			Lower contact is not well defined.	183718	380.5	383	1.5		0.06			
			128.5-132.5 More massive unlayered, altered sed	183719	383	385	2		0.03			
			192.5-193 Quartz vein at 30 deg to CA, minor py mineralization.	183720	385	386.5	1.5		0.02			
			200-201 3" banded quartz in alteration zone with 3% py and aspy	183721	386.5	389	2.5		0.08			
			201-217 Very quartz rich sed section.	183722	389	391	2		0.12			
			247-248.5 Alteration zone to apple green color containing 4"qtz with 1% py, as	183723	391	393	2		0.04			
			258-266.5 Similar greenish alteration zone but with no quartz or mineralization	183724	393	394.5	1.5		0.08			
			280-282 Similar alteration zone without qtz or sulphides.	183725	394.5	396	1.5		0.04			
			285-285.1 Quartz carbonate vein at 25 degrees, 2% py, aspy and mariposite.	183726	396	397	1		0.04			
			310-349 Fergusson sed	183727	397	390.5	3.5		0.02			
			347.5- 349 Alteration zone with minor banded sulphides at 35 deg at diorite co	183728	398.5	400.5	2		0.05			
349	457		BRALORNE INTRUSIVE (diorite) Medium to fine grained, medium grey color.	183729	400.5	402.5	2		0.05			
			373-375 Main Zone begins, very altered diorite, quartz flooded, 5% py, aspy.	183730	402.5	404.5	2		0.03			
			375-378.5 Quartz vein, well banded at 70 deg, 5% py, aspy	183731	404.5	406.5	2		0.01			
			378.5-390 Quartz flooded diorite with 3 % py, aspy.	183732	406.5	411	4.5		0.01			

DEPTH		LOG	DESCRIPTION	Sample No.	FROM	.TO	CORE INT.	SAMP INT.	Au	Ag		
FROM	TO											
0	10		CASING, no core recovered.									
10	332		BRALORNE INTRUSIVE (diorite) Fine to medium grained, medium grey, in places greyish green with chloritic alteration.									
			20.5-31.5 Occasional chloritized mafic xenoliths up to one foot across.									
			31.5-80 Mix of Fergusson sed inclusions in diorite grading to greenish grey med grained diorite with dark mafic inclusions. Occasional qtz stringers with minor py									
			128-131 Alteration zone in diorite with well mineralized qtz stringers at 128 (6") and 130.5' (2"), banded with pyrite and vfg aspy.									
			137-139 Gougey fracture zone in chloritized diorite.	183771	322	324.5	2.5		Tr.			
			219-221 Many small qtz veinlets in homogenous diorite, no mineralization.	183772	324.5	326	1.5		Tr.			
			221 Heavily altered zone of bleaching begins.	183773	326	328	2		0.06			
			221-221.5 Banded qtz with fg sulphides at 75 deg to CA	183774	328	329	1		Tr.			
			289-290 2" quartz stringer at 75 degrees, somewhat banded, minor py, aspy.	183775	329	330	1		Tr.			
			302-304 Very altered and bleached diorite with many small barren stringers	183776	330	331	1		Tr.			
			312-319 Felsic granoblastic, perhaps soda granite.	183777	331	333	2		0.01			
			319-332 Very highly altered zone with major quartz veining. Diorite is altered to albitite looking rock.	183778	333	334.5	1.5		Tr.			
				183779	334.5	336	1.5		0.01			
			325.5-328 Quartz vein, banded in places, mixed with wallrock in places as breccia	183780	336	337	1		Tr.			
			Minor py and aspy.	183781	337	339	2		Nil			
			228-332 Numerous thin stringers in fine grained altered diorite	183782	339	340.5	1.5		Tr.			
332	344		SERPENTINITE Mottled green yellow, talc rich, broken, with minor qtz at 339.5	183783	340.5	342	1.5		Nil			
			343 Fault gouge in brecciated serpentine..									
			E. O. H. At 344'									

DRILL HOLE RECORD		CLAIM: MAUSER		BEARING	DIP	SURV	CORE SIZE	NQ	HOLE # 03SB-13	
COMPAN' BRALORNE PIONEER		LOCATION Surface	COLLAR	258deg	-68deg		STARTED	27 May 03	SHEET:	1 OF 1
PROJECT Peter Vein Surface		ELEVATION 5353					COMPLETED	28 May 03	FINAL DEPTH	344'
UNITS feet		LATITUDE 14042 N					LOGGED BY: A. Petipas			
		DEPARTURE 5576 E								

DRILL HOLE RECORD		CLAIM: COSMOPOLITAN FR.	BEARING	DIP	SURV	CORE SIZE NQ	HOLE # 03SB-14B
COMPAN' BRALORNE PIONEER		LOCATION Surface	COLLAR: 258deg	-73deg		STARTED: 28 May 03	SHEET: 1 OF 2
PROJECT Peter Vein Surface		ELEVATION 4355				COMPLETED 30 May 03	FINAL DEPTH 517'
UNITS feet		LATITUDE 13868 N				LOGGED BY: A. Petipas	
		DEPARTURE 5581 E					

DEPTH		LOG	DESCRIPTION	Sample No.	FROM	.TO	CORE INT.	SAMP INT.	Au	Ag		
FROM	TO											
0	12		CASING, no core recovered									
12	384		BRALORNE INTRUSIVE (diorite) Medium to coarse grained, grey.									
			80.5-83' Alteration zone with approx 1" mineralized quartz stringer, gougey, broken									
			103-106' Minor quartz carb veinlets, minor py, aspy.									
			114-115' mineralized, altered diorite with sulphide bands at 70deg about 1 mm thick.									
			152-153.5' Dark green to maroon sediment like inclusion.									
			155-157' Zone with weakly mineralized quartz stringers in diorite.									
			227-232' Minor py and pyrrhotite as occasional fracture fillings.									
			239.5 Frequent inclusions of Fergusson sed in diorite.									
			270' Diorite mixed with many inclusions of broken hornfelds Fergusson sediment									
			288' Inhomogenous diorite.									
			295-297.5' Alteration (bleached) zone with fine grained py in bands and in 3"qu	183784	338.5	339.5	1		Nil			
			340.5 Diorite, brecciated in places	183785	339.5	341	1.5		0.02			
			341.5- 342.5 Mineralized zone with quartz. Heavily banded with vfg sulphides.									
			348.5 Dark diorite with frequent mafic inclusions.	183786	357.5	359	1.5		Tr.			
			357.5-358.5' Mineralized zone with patchy quartz and sulphides up to 1/4".	183787	359	361	2		Tr.			
			361-363.5 Altered very fine grained dark grey rock, somewhat brecciated with	183788	361	362.8	1.8		0.02			
			bands of sulphide and quartz.									
			372-374' Mineralized alteration zone with some quartz with minor py and aspy.	183789	372	373.5	1.5		0.01			
			381-383' Mineralized zone in diorite with qtz, py, aspy, mariposite with mixed in									
			wallrock.	183790	413.8	415.5	1.7		Tr.			
384	442.5		FERGUSSON SEDIMENTS Sharp contact at 60 degrees diorite. Hornfelds rich									
			quartz biotite schist mixed with inclusions of diorite	183791	415.5	417.5	2		Tr.			
									Tr.			
				183792	417.5	420	2.5		Tr.			

DRILL HOLE RECORD		CLAIM		BEARING	DIP	SURV	CORE SIZE	HOLE # 03SB-14B	
COMPAN' BRALORNE PIONEER		LOCATION					STARTED	SHEET: 2 OF 2	
PROJECT Peter Vein Surface		ELEVATION					COMPLETED	FINAL DEPTH 517'	
UNITS feet		LATITUDE N					LOGGED BY		
		DEPARTURE E							

DEPTH		LOG	DESCRIPTION	Sample No.	FROM	.TO	CORE INT.	SAMP INT.	Au	Ag		
FROM	TO											
384	466.5		FERGUSSON SEDIMENTS continued...	183793	420	422	2		Tr.			
			454' Altered dark green grey, fine grained rock, fractures filled with thin alteration product almost cinnebar red, more than 1% pyrite.	183794	422	423.5	1.5		Nil			
			454-457' Quartz vein, mineralized, mixed with altered host rock. 3% py, aspy in places.	183795	423.5	425.5	2		Nil			
			457-459' Banded quartz vein including some wallrock, 3% py, aspy.	183796	425.5	427.5	2		Tr.			
			457-459' Banded quartz vein including some wallrock, 3% py, aspy.	183797	427.5	430	2.5		Tr.			
			459-466.5 Highly altered rock, light grey brown, brecciation with qtz filling, 5% aspy.	183798	430	432	2		Tr.			
			459-466.5 Highly altered rock, light grey brown, brecciation with qtz filling, 5% aspy.	183799	432	434	2		0.02			
466.5	515		BRALORNE INTRUSIVE (diorite). Medium grey, medium grained, occasionally with sed inclusions.	183800	434	435.5	1.5		0.01			
			505.5-510' Short section of altered Fergusson sediments, then altered diorite t	177801	435.5	437	1.5		Tr.			
			515'	177802	437	439	2		Tr.			
			515'	177803	439	440.5	1.5		0.03			
515	517		FERGUSSON SEDIMENTS, altered with 3% sulphides in places.	177804	440.5	442	1.5		0.03			
				177805	442	443.5	1.5		Tr.			
				177806	443.5	444	0.5		Tr.			
				177807	444	447	3		Tr.			
				177808	447	449	2		0.01			
				177809	449	452	3		Nil			
				177810	452	454	2		Nil			
				177811	454	455.5	1.5		0.03			
				177812	455.5	457	1.5		0.05			
			E. O. H. At 517'	177813	457	459	2		0.03			
				177814	459	461.5	2.5		0.1			
				177815	461.5	464	2.5		0.07			

APPENDIX C
Assay Certificates



GEOCHEMICAL ANALYSIS CERTIFICATE

Bralorne Pioneer Mines File # A301615 Page 1
400 - 455 Granville St., Vancouver BC V6C 1T1 Submitted by: Aaron R. Pettipas

AMPLE #	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Au**	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
177775	<.1	.5	.5	<.1	<.1	.4	<.1	2	.01	4.3	<.1	<.5	<.1	4	<.1	.1	.1	3	.15	<.001	<.1	6.3	.01	4	<.001	<.1	.01	.757	.01	<.1	<.01	.5	<.1	<.05	<.1	<.5	<.1	<.5
177780	2.4	7.0	2.9	40	.2	113.7	19.3	1419	3.90	1668.6	<.1	163.1	.1	110	.1	2.4	.1	74	4.65	.024	2	113.8	4.18	27	.002	21	2.63	.084	.07	.1	.01	9.6	<.1	.30	8	<.5	<.1	<.5
177786	3.6	4.6	1.3	12	.2	74.9	7.7	741	1.78	4642.5	<.1	1262.8	.8	354	<.1	8.4	.1	10	4.70	.025	3	225.1	2.36	18	.004	6	.32	.011	.08	.1	.01	2.7	<.1	.35	1	1.3	<.1	<.5
183551	4.2	7.6	3.0	21	.3	330.9	20.1	911	2.22	2018.7	<.1	539.2	.3	249	<.1	10.2	.1	22	3.97	.018	2	448.8	2.71	16	.001	7	.95	.007	.09	.1	.01	4.8	<.1	.51	3	8	<.1	<.5
183556	18.6	42.7	5.9	111	1.3	737.4	64.0	662	7.30	1355.5	.3	306.8	.7	116	.1	9.9	.1	164	1.87	.092	4	720.5	9.50	10	.017	12	6.01	.019	.02	.1	.02	19.0	<.1	1.04	16	7	<.1	<.5
183559	2.6	54.3	3.4	56	.8	231.8	28.6	1202	4.56	4583.4	<.1	2026.2	.2	222	.1	13.0	.1	91	4.98	.048	2	263.1	4.14	29	.003	21	2.62	.017	.17	.2	.01	11.6	.1	.79	8	1.4	<.1	<.5
177794	2.5	29.8	2.2	40	.5	282.1	26.8	1089	3.47	1917.7	.1	391.8	.2	225	.1	15.9	.1	49	4.60	.045	3	219.4	3.39	61	.002	32	2.00	.055	.27	1.2	<.01	8.7	.1	.51	5	8	<.1	<.5
177800	4.2	23.0	1.7	52	.2	60.0	27.7	1170	5.03	1349.5	.1	191.7	.2	120	.1	2.8	.1	167	7.02	.022	2	129.2	2.98	51	.005	21	2.81	.023	.17	2	<.01	19.6	<.1	.20	9	6	<.1	<.5
183551	2.2	33.1	4.0	50	1.2	28.0	18.7	933	3.51	5406.8	.1	1232.2	.2	189	.1	9.5	<.1	33	5.05	.065	3	53.0	1.49	52	<.001	26	1.04	.042	.27	.2	.02	8.4	.1	1.03	2	9	<.1	<.5
183556	1.4	53.3	9.3	55	1.5	49.8	28.9	1233	4.58	7329.6	<.1	1702.2	.1	325	.2	7.4	.1	32	6.43	.031	2	38.1	2.61	61	.001	17	.68	.020	.33	.3	.02	13.3	.1	1.57	1	7	<.1	<.5
183559	3.1	51.4	2.0	35	.8	22.7	15.8	895	3.35	2409.8	.1	465.5	.3	146	.1	2.6	.1	59	4.48	.050	2	68.9	1.69	50	.003	21	1.35	.041	.22	.3	.02	10.6	.1	.84	4	6	<.1	<.5
183560	1.6	6.3	79.0	25	1.6	6.3	11.6	646	3.57	>9999	.2	2211.5	.4	59	.1	21.5	<.1	44	5.28	.037	3	116.1	.70	67	<.001	35	1.69	.038	.22	.3	.16	5.7	.1	.93	5	1.0	<.1	<.5
183563	1.0	7.3	8.3	30	.4	5.7	12.4	554	2.96	3550.9	.3	724.0	.6	62	.1	5.7	<.1	49	4.32	.049	4	83.7	.69	65	.002	21	1.50	.038	.22	.2	.05	5.8	<.1	.65	5	5	<.1	<.5
183561	4.9	7.3	117.6	38	2.6	7.7	10.2	552	3.86	>9999	.2	3716.7	.4	57	.3	26.3	.1	25	4.65	.036	3	121.4	.37	94	.002	41	1.36	.034	.27	.1	.30	4.5	.1	1.46	4	1.6	<.1	<.5
183572	.6	45.4	2.8	51	.3	55.6	34.2	1575	6.01	1820.6	<.1	269.1	.1	151	.1	3.1	.1	198	6.29	.026	1	156.1	3.81	57	.027	18	2.97	.042	.19	.1	.01	25.2	<.1	.72	8	<.5	<.1	<.5
183570	1.3	36.8	1.7	61	.1	112.7	30.1	2019	5.11	255.5	.5	34.0	2.8	495	<.1	1.8	<.1	125	16.01	.149	16	150.4	3.93	34	.011	8	2.73	.016	.07	.1	<.01	8.8	<.1	.19	10	<.5	<.1	<.5
183580	.9	9.0	2.6	23	.6	1100.1	68.3	1149	3.46	1565.8	<.1	179.0	.1	628	.1	12.1	<.1	22	7.97	.003	<.1	928.0	8.21	15	.004	5	.69	.013	.03	<.1	<.01	8.6	<.1	.41	2	<.5	<.1	<.5
183590	2.2	11.6	81.4	208	1.5	8.2	5.8	965	3.31	>9999	.1	3959.0	.2	175	7.1	52.8	<.1	19	9.90	.039	3	78.2	.71	53	<.001	15	1.26	.026	.13	.6	.05	2.5	<.1	1.23	3	1.5	<.1	<.5
183594	1.1	11.3	73.1	130	1.4	9.7	5.2	784	2.35	9040.1	.1	3027.5	.2	211	4.7	14.4	.1	23	8.60	.042	4	95.5	.56	88	<.001	13	1.24	.054	.10	6.2	.02	3.1	<.1	.75	3	1.3	<.1	<.5
183599	17.4	15.0	3.8	34	.5	5.0	8.1	625	2.29	2531.7	.1	745.5	.1	98	.3	2.4	<.1	41	5.87	.072	3	47.8	.77	53	<.001	11	1.56	.057	.13	.2	<.01	3.9	<.1	.37	5	6	<.1	<.5
183601	3.2	76.6	1.4	61	.1	36.2	29.8	1331	5.80	101.6	.1	34.0	.3	93	.1	1.6	.1	188	2.79	.054	3	73.5	3.50	102	.004	14	3.00	.060	.24	<.1	<.01	20.9	<.1	.71	9	5	<.1	<.5
183605	7.0	59.4	6.2	62	.8	75.6	26.1	1136	5.59	>9999	.1	1684.7	.3	166	.3	14.6	.2	93	4.36	.045	2	107.5	3.34	55	.001	15	2.02	.037	.28	.2	.02	12.3	.1	1.51	6	4.5	<.1	<.5
RE 183605	6.6	62.6	6.5	69	.8	79.2	27.0	1181	5.76	>9999	.1	1834.9	.3	164	.2	14.6	.2	97	4.52	.047	2	110.7	3.43	59	<.001	15	2.10	.037	.30	.2	.02	12.0	.1	1.53	6	4.2	<.1	<.5
RE 183605	6.7	65.2	5.8	61	.7	79.2	26.2	1128	5.70	>9999	.1	1528.8	.3	161	.2	14.0	.2	99	4.22	.046	2	128.5	3.37	56	.002	14	2.11	.037	.29	.3	.01	12.0	.1	1.49	6	4.1	<.1	<.5
183616	7.5	9.4	3.0	46	.3	62.1	37.6	1480	5.61	4501.3	.1	344.7	.1	235	<.1	3.3	<.1	139	8.48	.026	2	126.8	3.52	54	<.001	18	2.78	.014	.21	14.3	.01	15.6	<.1	.76	7	<.5	<.1	<.5
183611	3.0	18.0	13.2	22	2.1	15.9	11.6	803	2.53	5897.4	<.1	1942.9	.1	61	.1	9.6	.1	42	4.33	.030	1	229.3	.52	54	.002	19	.85	.027	.20	.1	.02	6.2	<.1	1.23	3	1.2	<.1	<.5
183620	6.0	8.7	7.1	9	1.0	11.9	5.0	517	2.18	8093.8	<.1	2624.4	<.1	70	<.1	8.1	.1	17	2.64	.011	1	252.4	.65	30	<.001	13	.41	.009	.14	.2	.02	3.0	<.1	.97	2	2.2	<.1	<.5
183625	.6	30.5	1.3	52	.1	51.0	28.4	1185	5.28	511.6	<.1	185.0	.1	141	.1	3.2	<.1	137	4.67	.032	2	89.7	2.52	50	.004	18	2.40	.028	.19	2	<.01	23.6	<.1	.42	7	5	<.1	<.5
183629	5.6	19.8	.7	25	<.1	16.4	8.0	791	2.24	42.0	.2	17.0	1.1	53	<.1	.9	.1	51	3.76	.022	4	141.4	1.33	12	.006	8	1.60	.028	.05	1	<.01	6.5	<.1	1.12	5	<.5	<.1	<.5
183630	2.5	45.5	1.4	48	.1	110.8	16.5	1022	3.84	209.7	.1	72.7	.9	65	<.1	3.0	4.1	79	3.51	.034	3	229.6	3.05	18	.004	12	2.59	.024	.08	1	<.01	9.8	<.1	.43	8	<.5	<.1	<.5
183631	2.3	9.5	2.9	43	.2	215.8	53.5	1172	3.20	896.2	<.1	128.3	.2	190	.1	6.7	.1	46	6.34	.029	2	734.1	5.71	17	<.001	10	2.25	.019	.05	<.1	.01	9.6	<.1	.28	5	5	<.1	<.5
183632	28.7	6.2	57.9	19	.4	30.2	12.5	536	2.74	4589.6	.1	297.2	.2	43	.1	27.2	<.1	57	5.21	.020	1	199.0	.97	25	.013	11	1.30	.027	.10	2	<.01	8.6	<.1	1.46	3	1.2	<.1	<.5
183634	3.6</																																					



ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Ag ⁺⁺ gm/mt
D 183652	1.6	31.2	4.6	31	.5	15.0	11.4	837	3.55	1946.6	<.1	1013.3	.1	215	<.1	5.7	.2	21	4.12	.045	1	150.0	2.17	27	.001	5	.85	.019	.19	.3	.01	4.1	<.1	1.37	3	1.5	1.0
D 183653	1.3	25.0	2.0	41	.4	17.9	16.0	788	4.37	963.9	<.1	240.5	.1	93	<.1	3.3	.1	97	1.74	.070	1	60.1	5.20	25	.001	4	3.66	.021	.15	.5	.01	7.6	<.1	.63	11	<.5	<.3
D 183655	2.1	8.0	6.8	11	.9	238.7	12.9	451	1.71	7216.7	<.1	4134.2	<.1	128	<.1	25.8	.1	12	2.10	.003	<1	455.5	1.81	5	.002	2	.56	.001	.03	.3	.02	1.8	<.1	.46	2	3.4	.8
D 183656	2.5	39.4	3.6	70	.5	1012.0	58.3	2188	4.30	1777.8	.1	780.0	.3	361	.1	27.5	.1	70	8.44	.033	4	1002.6	7.50	11	.004	2	2.90	.010	.04	.4	<.01	12.1	<.1	.34	9	<.5	.6
STANDARD DS4/R-2	6.9	128.2	31.1	163	.3	33.6	12.2	797	3.17	22.6	6.4	29.0	3.6	27	5.3	4.4	4.9	73	.51	.087	17	166.6	.59	137	.089	1	1.75	.031	.15	3.8	.27	3.8	1.0	.08	6	1.2	154.9

Sample type: CORE R150 60C.

ASSAY CERTIFICATE



Bralorne Pioneer Mines File # A301615 Page 1
400 - 455 Granville St., Vancouver BC V6C 1T1 Submitted by: Aaron R. Pettipas

SAMPLE#	S.Wt gm	NAU mg	-Au gm/mt	DupAu gm/mt	TotAu gm/mt
SI	<1	<.01	<.01	-	<.01
D 177776	455	.01	.22	-	.24 0.007
D 177785	483	<.01	1.54	-	1.54 0.05
D 177786	473	<.01	.66	-	.66 0.02
D 177787	481	.01	.30	-	.32 0.01
D 177793	471	<.01	2.58	-	2.58 0.08
D 177794	476	<.01	.45	-	.45 0.01
D 177800	464	<.01	.24	-	.24 0.01
D 183551	478	<.01	1.43	-	1.43 0.04
D 183556	475	<.01	1.82	-	1.82 0.05
D 183558	467	<.01	.54	-	.54 0.02
D 183562	471	<.01	2.34	-	2.34 0.07
D 183563	462	<.01	.94	-	.94 0.03
D 183564	467	<.01	3.72	-	3.72 0.11
D 183572	468	<.01	.47	-	.47 0.01
D 183573	466	<.01	.08	-	.08 1r
D 183583	488	.02	.26	-	.30 0.01
D 183590	469	<.01	4.45	-	4.45 0.13
D 183591	465	<.01	3.54	-	3.54 0.10
D 183592	476	<.01	.51	-	.51 0.01
D 183604	460	<.01	.07	-	.07 1r
D 183605	323	<.01	2.41	2.48	2.41 0.07
RRE D 183605	356	.03	2.66	-	2.74 0.08
D 183616	480	<.01	.62	-	.62 0.02
D 183619	468	<.01	2.16	-	2.16 0.06
D 183620	469	<.01	3.17	-	3.17 0.09
D 183621	464	<.01	.35	-	.35 0.01
D 183629	473	<.01	.03	-	.03 0.001
D 183630	468	<.01	.12	-	.12 0.004
D 183631	477	<.01	.19	-	.19 0.006
D 183633	477	<.01	.43	-	.43 0.014
D 183634	478	<.01	.09	-	.09 0.003
D 183641	465	<.01	.15	-	.15 0.005
D 183645	479	<.01	.54	-	.54 0.017

-AU : -150 AU BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAU: AU DUPLICATED FROM -150 MESH. NAU - NATIVE GOLD, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: CORE R150 60C

DATE RECEIVED: MAY 21 2003 DATE REPORT MAILED: June 4/03 SIGNED BY: C. Leong, J. Wang; CERTIFIED B.C. ASSAYERS



SAMPLE#	S.Wt gm	NAu mg	-Au gm/mt	TotAu gm/mt	
D 183652	485	.02	1.27	1.31	0.04
D 183653	501	<.01	.29	.29	0.01
D 183655	485	.09	4.61	4.80	0.14
D 183656	477	.01	1.37	1.39	0.04

Sample type: CORE R150 60C.



GEOCHEMICAL ANALYSIS CERTIFICATE



Bralorne Pioneer Mines File # A301614 Page 1
400 - 455 Granville St., Vancouver BC V6C 1T1 Submitted by: Aaron R. Pettipas

SAMPLE #	Hg	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Ag**	Au**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm/ml	ppm/ml
SI	1	9	4	J <1	9	2	7	08		.7 <1	1.5 <1	3 <1	<1 <1	2	.13 <.001	<1	<1	.01	3	.001	<1	.01	.626	.01	<1	<.01	.6	<1	<.05	<1	<5	<3	<.01					
D 177777	1.2	15.8	1.1	65	<1	53.0	32.6	1324	5.74	4.5	.2	2.8	.6	136	<1	.6	<1	236	3.64	.052	4	199.0	3.74	80	.021	7	3.18	.090	.10	<1	<.01	26.5	<1	.19	10	<5	<3	<.01
D 177778	1.6	24.7	1.1	55	.1	41.4	27.0	1101	4.92	3081.5	.1	758.0	.4	140	.1	4.2	<1	161	3.87	.047	3	153.0	2.86	68	.009	9	2.39	.051	13	<1	<.01	20.9	<1	.50	7	<9	<3	<.01
D 177779	1.9	17.1	1.5	46	.2	5.4	13.7	935	3.23	4040.2	<1	920.4	.1	148	<1	6.4	<1	20	3.39	.045	1	7.9	1.32	36	.001	7	.52	.034	.21	1.1	<.01	6.9	.1	.79	1	<9	<3	<.01
D 177780	1	6.4	1.9	56	.2	6.5	14.6	769	3.19	6906.8	<1	1238.1	.1	179	.1	9.3	<1	13	2.87	.043	1	3.8	1.32	40	.002	10	.48	.032	.24	.2	.02	5.9	.1	1.71	1	<9	4	1.27
D 177781	1.4	6.4	1.8	39	.3	5.1	10.4	652	2.65	>9999	<1	2224.1	.1	173	.1	14.3	<1	8	2.75	.027	1	7.7	1.18	33	.002	8	.31	.005	.17	2.6	.03	3.9	.1	1.48	1	1.7	4	2.25
D 177782	.2	8.8	1.4	28	.3	3.1	6.9	665	2.09	7880.0	<1	2094.3	.1	205	.1	11.3	<1	7	2.91	.023	1	1.7	1.25	29	.003	3	.23	.016	.15	.1	.01	3.1	<1	1.01	1	1.2	3	2.156
D 177783	2.7	24.7	4.4	48	.9	621.6	45.2	817	3.85	8553.2	<1	2220.1	.1	273	.2	20.6	<1	42	3.82	.023	1	496.4	3.10	17	.002	4	1.43	.009	.09	2.4	.03	7.7	<1	1.67	4	2.0	8	2.309
D 177784	1.1	16.8	3.4	31	1.2	535.2	42.6	766	3.19	>9999	<1	4080.4	.3	375	.1	25.3	<1	28	4.67	.034	2	291.8	2.94	22	.005	3	.96	.006	.09	.2	.01	6.9	<1	1.18	3	2.5	1	4.236
D 177788	6.6	36.4	5.4	99	.8	534.5	51.2	889	7.65	4696.9	.3	551.4	1.3	255	.1	6.5	<1	187	3.65	.188	6	572.1	8.84	19	.012	12	5.65	.020	.04	.2	.01	16.2	<1	1.16	17	1.2	6	73
D 177789	1.2	107.7	1.0	29	.1	16.2	11.7	577	3.18	382.2	<1	172.2	.2	36	<1	2.1	.1	58	1.87	.050	2	23.7	1.19	39	.009	11	1.60	.060	.11	<1	<.01	7.1	<1	.82	7	.7	<3	21
D 177790	2.9	120.3	1.3	57	.4	14.6	12.2	601	3.45	666.5	<1	129.6	.2	51	.2	2.3	.1	66	2.57	.052	2	23.0	1.26	37	.006	17	1.76	.053	.15	.4	.02	8.0	<1	1.15	6	.8	5	16
D 177791	.6	38.5	.7	54	.1	19.9	25.0	952	5.20	55.4	.1	9.0	.1	75	.1	.9	<1	223	4.03	.037	2	51.9	2.49	39	.052	9	2.85	.069	.11	<1	<.01	20.1	<1	.40	8	<5	3	01
D 177792	1.5	66.4	3.6	56	1.3	17.7	26.6	1049	5.74	1481.2	<1	140.5	.1	57	.1	2.4	.5	206	4.25	.040	2	45.6	2.44	31	.017	6	2.76	.039	.10	.9	<.01	19.5	<1	.99	10	<5	1.5	16
D 177795	.9	10.2	1.2	40	.2	17.9	14.8	962	2.95	1211.4	.1	178.5	.3	161	<1	1.9	<1	38	3.39	.059	3	15.8	2.33	42	.005	10	1.48	.031	.21	<1	<.01	5.7	<1	.41	3	<5	3	25
D 177796	2.5	11.8	1.4	18	.2	418.6	32.1	794	2.14	467.9	.1	110.6	.2	220	<1	2.9	<1	12	5.38	.034	2	376.4	3.20	26	.005	9	1.09	.028	.10	.3	<.01	4.3	<1	.54	3	<5	3	13
D 177797	9.7	10.3	1.5	42	.6	173.8	23.5	966	3.78	567.5	.1	55.0	.3	82	<1	2.3	.2	76	7.99	.028	3	210.4	2.32	17	.005	11	2.38	.012	.08	1.3	<.01	8.0	<1	.20	6	<5	7	07
D 177798	9.4	7.2	3.1	48	1.7	210.5	27.9	1147	4.23	6557.7	.1	453.7	.4	160	.1	5.0	.2	77	8.58	.035	3	194.0	2.58	25	<.001	14	2.16	.014	.11	1.1	<.01	9.9	<1	.67	6	<5	2.0	53
D 177799	6.2	4.7	1.4	44	.3	179.0	25.1	986	4.38	813.8	.1	79.4	.5	126	.1	2.5	.1	97	6.97	.038	3	242.1	2.94	18	.001	10	2.91	.013	.07	.3	<.01	10.0	<1	.08	8	<5	3	08
RE D 177799	6.9	5.3	1.4	51	.2	194.8	26.9	1020	4.56	831.6	.1	76.2	.5	130	.1	2.6	.1	102	7.26	.038	3	248.5	3.03	18	<.001	10	3.01	.013	.07	.4	<.01	10.4	<1	.09	9	5	4	08
PRE D 177799	7.2	5.3	1.4	47	.2	195.3	26.1	998	4.47	1078.8	.1	85.6	.5	128	.1	2.6	.1	98	7.05	.040	3	248.3	2.97	19	.002	10	2.97	.017	.07	.3	<.01	10.0	<1	.10	9	<5	5	10
D 183552	1.8	53.4	2.1	60	.9	93.4	27.7	1013	4.89	5111.0	<1	2328.0	.1	379	.1	9.0	<1	64	6.66	.023	2	85.8	2.93	36	<.001	16	1.36	.017	.17	.8	<.01	14.6	<1	.67	3	.8	1.3	2.37
D 183553	3.1	78.8	2.3	66	.7	120.5	38.8	1040	5.07	3668.5	<1	1261.6	.1	339	.1	9.4	<1	57	6.56	.030	2	88.7	2.74	46	<.001	24	1.04	.023	.24	.8	<.01	17.9	.1	.97	2	.7	9	1.31
D 183554	1.1	55.2	2.9	51	.7	33.3	24.8	967	4.18	2323.9	<1	1772.2	.1	336	.1	5.6	<1	32	6.21	.038	2	24.0	2.52	45	.002	16	.78	.020	.20	.8	.01	10.2	.1	1.14	2	.8	9	1.24
D 183555	1.7	38.8	5.0	47	1.2	47.5	27.8	1183	4.82	>9999	<1	2180.4	.1	459	.1	8.0	<1	28	7.30	.020	1	19.4	2.87	39	<.001	11	.45	.013	.21	1.1	.01	12.2	.1	1.74	1	.7	1.4	2.31
D 183557	.5	46.6	1.4	44	.6	54.7	24.2	1082	4.41	1835.3	<1	350.3	.1	287	.1	4.1	<1	57	5.65	.033	2	55.2	2.80	37	.004	10	.89	.022	.18	.4	<.01	16.4	<1	.72	2	<5	7	27
D 183559	1.0	53.5	1.5	25	.3	2.8	5.1	563	2.51	934.4	.2	177.0	.4	44	<1	1.9	<1	27	2.55	.068	3	7.1	.67	44	.003	18	1.10	.049	.15	1.2	<.01	2.9	<1	.91	4	<5	5	17
D 183560	1.1	106.4	2.2	39	.5	23.7	18.8	678	3.99	1017.3	<1	541.7	.1	52	.1	4.5	.1	80	2.83	.046	2	32.9	1.74	38	.011	14	1.77	.064	.14	.2	.01	9.7	<1	1.57	6	.9	5	66
D 183561	2.0	83.1	1.3	35	.3	33.8	12.3	552	3.17	181.3	<1	120.0	.2	53	.1	3.6	.1	61	2.24	.050	2	23.1	1.22	46	.020	13	1.63	.075	.17	1.0	<.01	7.8	<1	.98	5	<5	<3	11
D 183565	.8	3.5	2.9	31	.1	4.6	13.4	561	3.15	577.1	.3	57.4	.6	53	<1	1.4	<1	75	3.76	.052	4	5.9	1.02	66	.005	17	1.76	.040	.14	<1	<.01	8.4	<1	.27	7	<5	3	06
D 183566	6.0	44.1	1.0	55	.2	49.1	34.9	1346	5.95	1175.4	<1	120.7	.1	192	<1	3.3	<1	205	6.62	.028	2	99.5	3.64	42	.011	10	2.59	.026	.17	.2	<.01	25.8	<1	.60	7	<5	4	17
D 183567	2.0	68.3	.7	61	.1	53.7	34.6	1259	6.37	684.2	<1	180.5	.1	120	.1	2.2	.2	264	5.89	.030	2	123.7	3.90	37	.088	10	3.39	.061	.08	.2	<.01	27.8	<1	.53	10	<5	3	21
D 183568	4.2	56.5																																				



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Ag**	Au**	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	gm/mt	gm/mt
D 183690	2.0	21.0	2.2	26	.3	13.3	15.4	385	2.50	1518.9	.1	945.6	.4	86	<.1	3.7	<.1	47	2.27	.043	2	32.1	1.27	43	<.001	9	1.16	.013	.14	2.1	.01	5.9	<.1	.70	3	<.5	<.3	1.23	
D 183691	.8	33.3	2.0	46	.3	20.7	24.2	912	4.69	1449.8	.2	632.9	.4	100	.1	3.1	<.1	108	3.44	.052	3	49.4	2.29	44	<.001	11	1.96	.021	.17	.2	<.01	11.7	<.1	1.04	7	.5	<.3	.76	
D 183692	27.4	45.5	2.2	58	.3	45.8	32.0	1166	5.69	148.7	.2	27.0	.5	87	<.1	2.9	<.1	178	3.20	.043	3	155.2	3.23	51	.002	17	2.78	.032	.14	.5	.01	18.7	<.1	.85	10	<.5	<.3	.04	
D 183693	14.2	25.6	1.4	37	.3	26.4	18.5	735	3.19	1224.4	.1	298.2	.5	86	<.1	4.1	<.1	79	3.25	.042	3	79.5	1.88	54	<.001	16	1.66	.027	.15	.2	.01	9.5	<.1	.43	5	<.5	<.3	.30	
D 183694	10.7	24.1	2.2	57	.2	42.6	28.3	1234	5.16	807.8	.2	107.9	.6	123	.1	3.4	<.1	140	4.01	.046	3	126.1	3.02	57	.001	17	2.43	.024	.16	.3	.01	16.5	.1	.74	8	<.5	<.3	.22	
D 183695	28.9	16.0	5.2	18	.5	15.5	11.0	370	2.55	5305.1	.1	1058.4	.5	77	<.1	10.7	<.1	27	2.15	.036	2	30.7	1.05	37	.001	10	.76	.026	.15	.2	.02	3.7	<.1	1.30	2	.9	.7	1.33	
D 183696	30.2	12.1	1.1	6	.2	2.2	1.9	230	.77	1949.0	.1	379.9	.3	43	<.1	3.0	<.1	4	1.59	.030	2	9.9	.33	51	<.001	11	.33	.018	.13	3.0	.01	1.0	<.1	.25	1	<.5	<.3	.54	
D 183697	66.6	44.9	2.6	5	.5	.2	2.0	270	1.29	1083.7	.1	448.9	.5	55	<.1	3.3	<.1	1	1.74	.036	3	<.1	.56	49	.002	12	.36	.031	.17	.2	.01	.5	<.1	.80	1	<.5	.7	.40	
D 183698	32.4	33.0	1.2	4	.1	.6	1.9	218	1.01	94.2	.1	23.0	.6	44	<.1	.9	<.1	2	1.41	.038	3	5.1	.33	45	<.001	12	.33	.047	.13	1.8	.01	.5	<.1	.47	1	<.5	.3	.03	
D 183699	9.0	26.9	1.7	28	.3	15.0	13.0	950	3.09	4016.7	.1	455.7	.3	142	<.1	4.3	<.1	20	4.58	.048	2	12.1	1.68	43	<.001	13	.66	.027	.16	.2	.02	5.0	.1	.65	2	<.5	.3	.62	
D 183700	2.0	11.0	2.2	27	.5	10.0	7.7	930	2.55	7484.3	<.1	1385.0	.1	142	.1	9.7	<.1	8	4.09	.056	2	11.9	1.38	41	<.001	11	.48	.022	.21	2.5	.02	2.6	<.1	1.13	1	.8	.4	2.57	
D 183701	.3	20.8	1.2	46	.1	15.2	11.8	785	3.29	1114.0	<.1	267.4	.1	85	.1	2.7	<.1	36	2.61	.077	2	30.3	1.49	65	.002	10	1.40	.034	.23	.2	.02	4.2	.1	.71	4	<.5	<.3	.36	
D 183702	1.2	53.2	2.0	45	.6	5.9	15.1	1088	4.62	5002.3	.1	2025.4	.1	131	.1	11.3	.1	54	3.85	.059	2	9.1	1.68	58	<.001	10	1.33	.032	.26	.7	.03	6.6	.1	1.73	4	1.3	.5	2.09	
RE D 183702	1.0	58.3	2.0	48	.4	7.0	15.3	1125	4.74	5241.8	<.1	1480.5	.1	126	<.1	10.6	.1	55	3.96	.057	2	8.9	1.73	55	.005	12	1.37	.031	.24	.8	.03	6.1	.1	1.75	4	1.3	.4	2.11	
RRE D 183702	.7	59.6	2.2	46	.5	6.7	15.3	1072	4.68	4425.7	.1	1406.7	.1	131	.1	10.9	.1	53	3.77	.058	2	7.5	1.69	59	<.001	11	1.33	.031	.24	.2	.02	7.1	.1	1.84	4	1.2	.4	1.80	
D 183703	1.6	126.6	.7	44	<.1	7.0	17.0	1126	4.83	29.9	.1	7.0	.1	48	<.1	2.6	<.1	104	1.80	.064	2	12.7	2.02	57	.003	15	2.34	.040	.18	.3	.01	9.3	<.1	.43	8	.6	<.3	.01	
D 183704	1.7	104.3	1.7	25	.3	17.1	12.5	569	2.74	866.8	<.1	214.7	.1	85	<.1	5.3	.1	28	2.30	.049	2	9.4	1.43	41	<.001	16	1.20	.030	.19	.2	.01	3.6	<.1	.81	3	.6	<.3	.34	
D 183705	2.4	79.6	2.2	48	.2	86.1	18.5	669	4.58	416.9	.1	61.8	.2	81	<.1	5.7	.1	67	2.06	.062	3	91.7	4.81	39	.003	13	3.44	.018	.14	.5	.02	6.4	<.1	.44	9	.5	<.3	.10	
D 183706	1.4	29.6	2.0	40	.3	1019.1	54.7	1384	4.12	1555.9	.1	160.9	.4	253	.1	36.2	.1	53	6.70	.027	3	757.5	5.97	16	.004	6	2.32	.007	.04	.2	.01	8.5	<.1	.82	6	.6	.5	.24	
D 183707	3.0	17.7	5.1	52	1.3	1469.6	75.8	2354	4.87	2432.1	.1	825.3	.4	398	.1	60.9	.2	55	9.33	.028	4	1113.4	6.61	21	.002	5	2.22	.006	.04	.8	.02	10.4	<.1	1.17	8	1.5	1.5	1.07	
D 183708	1.1	21.5	1.4	32	.4	1142.3	56.8	1214	4.12	742.4	<.1	84.3	.2	345	<.1	13.9	.1	44	7.74	.016	2	794.0	6.43	8	.001	4	2.02	.008	.01	.1	.01	9.1	<.1	.94	5	.6	.5	.10	
D 183709	1.9	83.4	2.5	153	.1	251.7	38.9	1176	8.84	37.5	.1	8.0	.9	41	.1	3.2	<.1	205	1.59	.227	7	204.8	3.42	61	.028	9	3.52	.031	.04	.3	.01	21.0	<.1	1.42	18	1.4	<.3	.01	
STANDARD DS4	6.8	129.5	31.5	161	.3	33.6	12.5	795	3.20	23.5	6.5	28.0	3.6	27	5.4	4.6	5.0	76	.53	.084	17	160.4	.59	141	.091	2	1.77	.030	.15	3.9	.27	3.9	1.1	.07	6	1.4	155.7	3.11	

Standard is STANDARD DS4/R-2/AU-1. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



GEOCHEMICAL ANALYSIS CERTIFICATE



Bralorne Pioneer Mines File # A301662 Page 1
400 - 455 Granville St., Vancouver BC V6C 1T1 Submitted by: Aaron R. Pettipas

SAMPLE #	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Ag**	Au**	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	gm/mt	gm/mt	
183658	.3	1.1	.5	<1	<1	3.8	.4	12	.04	<.5	<.1	.6	<.1	3	<.1	<.1	<.1	2	12	<.001	<.1	2.1	.04	2	<.001	<.1	<.01	.574	.01	.2	.01	.2	<.1	<.05	<.1	<.5	<.3	<.01	
183659	.6	19.2	3.8	37	.2	78.8	20.2	766	3.86	902.6	.2	164.2	.5	62	.1	2.6	<.1	66	3.51	.066	4	70.0	1.70	42	<.001	10	1.89	.027	.21	.1	.01	6.2	<.1	.82	6	<.5	.3	.70	
183660	1.5	9.1	2.8	25	.2	96.8	22.0	776	3.39	>9999	.1	1128.1	.4	77	.1	7.8	<.1	32	3.34	.068	3	45.6	1.35	40	.003	10	1.07	.023	.21	1.9	.02	4.7	.1	.99	3	.5	.6	1.71	
183661	1.1	21.4	1.8	34	.1	84.0	19.4	911	3.71	1278.9	.2	113.5	.5	77	<.1	1.8	<.1	69	3.62	.062	4	64.7	2.00	42	<.001	13	1.95	.032	.18	.2	.02	6.6	<.1	.58	6	<.5	.3	.08	
183662	1.6	14.9	1.3	36	.1	76.3	17.5	667	3.57	540.7	.2	185.6	.5	72	<.1	1.4	<.1	72	2.36	.064	3	69.7	1.95	42	<.001	6	1.86	.030	.14	1.5	.01	5.7	<.1	.47	7	<.5	.6	.24	
183663	1.5	18.7	1.6	42	.2	46.6	22.7	1132	4.02	271.8	.1	28.0	.3	103	.1	3.6	<.1	134	3.69	.052	3	73.4	2.34	54	.002	11	1.90	.020	.17	.1	.01	15.7	<.1	.37	6	<.5	.3	.03	
183664	2.7	37.6	2.2	37	.3	107.0	14.3	847	3.00	4265.9	.5	755.1	1.2	114	.1	5.5	<.1	47	3.95	.035	4	98.0	1.92	28	.003	11	1.56	.015	.13	2.1	.02	5.6	<.1	.49	5	.7	.5	1.66	
183665	2.2	40.2	4.7	45	.7	30.1	14.0	869	3.36	6305.3	.1	701.8	.4	147	.2	6.3	<.1	18	2.93	.040	2	6.6	1.61	49	<.001	11	.92	.016	.22	.2	.03	3.3	<.1	1.38	2	.5	1.3	.96	
183666	5.4	67.6	2.4	48	.6	7.3	13.4	722	3.07	285.0	.1	386.0	.4	94	.2	2.8	<.1	20	2.15	.045	2	7.7	1.15	41	<.001	11	.84	.019	.20	1.8	.06	3.4	.1	.99	2	<.5	.7	.48	
183667	1.7	29.1	1.5	66	.2	81.9	20.1	969	3.87	310.6	.2	25.7	.7	145	.1	4.9	<.1	29	2.79	.057	3	35.3	1.84	47	<.001	14	.89	.027	.26	.2	.01	5.6	<.1	.23	2	<.5	.3	.03	
183668	4.5	11.4	.8	44	.1	18.5	16.3	1018	3.88	79.0	.2	8.1	.5	108	<.1	2.1	<.1	32	2.57	.058	3	10.0	1.79	50	.001	14	.72	.027	.26	1.4	.01	5.7	<.1	.13	2	<.5	.5	.02	
183669	5.2	14.0	2.3	21	.5	41.7	9.4	352	2.13	3761.9	.1	1007.3	.3	107	.1	8.8	<.1	20	1.80	.021	1	26.6	1.06	25	.002	10	.63	.011	.09	.2	.02	3.3	<.1	.54	2	.7	.8	.99	
183670	4.8	13.7	8.5	23	1.2	32.5	11.2	509	2.89	>9999	.1	1993.7	.3	131	.1	32.0	.1	16	2.85	.026	1	34.3	1.36	39	.001	11	.48	.012	.13	3.5	.05	4.3	.1	1.31	1	2.6	1.9	2.15	
183671	2.9	58.0	2.0	35	.9	18.0	13.5	584	2.89	3651.9	.1	878.1	.3	134	<.1	12.3	<.1	17	2.84	.034	2	12.8	1.44	100	.001	11	.69	.026	.24	.3	.01	4.1	.1	1.48	2	.8	1.1	.94	
183672	1.2	35.4	2.8	41	.7	20.6	24.2	1062	4.69	8121.1	.1	1540.8	.3	221	.1	16.9	<.1	50	4.51	.049	2	15.3	2.36	83	<.001	10	1.06	.016	.23	1.3	.02	7.7	.1	2.06	3	1.1	1.0	1.68	
183673	1.1	34.5	1.3	58	.2	22.4	29.6	1096	5.23	2027.0	.1	561.0	.4	139	<.1	6.6	<.1	108	3.28	.040	2	24.7	2.37	75	.001	12	1.75	.026	.28	.3	.01	13.2	.1	.78	4	<.5	.4	.64	
183674	3.6	38.4	1.7	44	.3	19.3	22.7	862	4.36	3073.4	.1	657.4	.4	174	.1	7.9	<.1	72	3.48	.040	2	43.7	2.26	49	.003	10	1.49	.023	.20	.7	.01	8.7	.1	1.18	4	.8	<.3	.76	
183675	8.3	57.0	1.7	55	.2	37.0	31.3	1072	5.61	1216.9	.2	379.6	.6	132	<.1	2.8	<.1	179	3.91	.052	3	129.8	3.09	53	.005	12	2.67	.034	.18	.1	.01	19.9	.1	.96	9	<.5	<.3	.44	
183676	2.8	22.5	.8	64	<.1	35.3	30.4	1111	5.22	17.0	.2	4.0	.7	141	.1	.7	<.1	221	3.74	.057	5	139.8	3.28	82	.073	11	2.68	.137	.09	.2	.01	25.6	.1	.27	10	<.5	<.3	.01	
183677	.8	25.3	1.6	70	.2	48.4	33.8	1015	6.03	932.5	.2	157.4	.7	121	.1	3.1	<.1	173	2.92	.056	2	177.9	3.80	43	.003	12	3.10	.023	.18	.3	<.01	17.7	<.1	.68	9	<.5	.4	.21	
183678	1.9	34.7	3.8	62	.5	38.4	23.6	1234	4.76	>9999	.1	1352.4	.4	198	.3	17.1	<.1	63	4.42	.038	2	79.9	2.78	34	<.001	9	1.44	.016	.17	1.4	.01	8.4	<.1	1.71	4	1.8	.7	1.51	
183679	.6	30.6	.9	58	.1	68.6	33.9	1197	5.25	335.0	.1	60.0	.2	188	.1	3.9	<.1	188	4.79	.022	1	191.7	3.87	60	<.001	13	3.02	.034	.14	.1	.01	22.1	<.1	.34	9	<.5	.3	.10	
183680	3.7	34.0	1.4	67	.2	108.3	19.7	1006	4.33	1225.4	.3	173.5	.6	73	<.1	5.5	<.1	102	2.55	.058	4	118.9	3.29	33	.003	12	2.67	.036	.11	.7	.01	9.2	<.1	.49	9	.6	.4	.76	
183681	.9	33.7	1.9	67	.2	154.6	28.0	1200	5.38	77.2	.1	31.9	.6	58	.1	3.2	.1	140	1.98	.055	3	166.8	3.92	44	.003	12	3.09	.031	.10	.1	<.01	12.6	<.1	.67	9	<.5	.3	.04	
183682	.8	32.4	1.9	69	.2	149.4	27.4	1193	5.35	78.7	.2	26.9	.6	61	.1	3.5	.1	140	1.98	.055	3	158.6	3.90	46	.005	12	3.07	.027	.11	.1	.01	12.7	<.1	.69	9	<.5	.4	.04	
183683	1.3	36.2	1.4	75	.1	265.1	32.0	1297	5.48	76.3	.2	18.8	.9	55	.1	4.7	.1	140	1.93	.060	4	288.9	4.64	43	.003	12	3.38	.028	.09	.4	<.01	13.2	<.1	.47	10	<.5	<.3	.03	
183684	1.0	75.0	4.4	82	3.0	81.9	38.5	1657	5.94	6721.6	.1	2139.7	.1	241	.1	9.0	.1	100	5.61	.019	1	49.1	3.60	47	<.001	11	1.80	.018	.15	.9	.03	16.8	<.1	1.87	4	.8	4.0	2.67	
183685	.2	88.9	2.2	107	.4	91.6	54.6	1894	8.43	219.8	.1	502.1	<.1	107	.1	4.7	.1	220	4.02	.006	<.1	113.8	4.68	56	.006	8	3.43	.032	.05	.1	<.01	33.8	<.1	1.47	8	.7	.5	.53	
183686	1.9	17.3	2.5	57	.5	269.1	25.7	1059	3.70	2005.1	.1	785.0	.4	170	.1	16.2	<.1	46	3.25	.031	2	263.1	3.81	22	.002	12	2.25	.026	.11	1.1	<.01	5.7	<.1	.57	7	.6	.8	.89	
183687	.9	19.4	1.7	62	.2	514.7	43.7	1072	4.33	1283.6	<.1	429.9	.1	148	.2	2.4	<.1	61	3.15	.036	1	507.1	5.09	20	.004	16	2.28	.046	.07	.4	<.01	7.9	<.1	.57	7	<.5	.3	.75	
183688	1.4	31.7	2.8	29	.5	25.6	14.0	622	2.66	8359.2	.2	1527.4	.5	50	.2	5.2	<.1	23	3.59	.056	4	28.7	.70	50	.002	18	1.15	.037	.21	.2	.01	3.7	.1	1.12	3	<.5	.8	1.71	
183689	5.1	58.6	2.1	53	.1	72.1	17.1	794	3.35	82.8	.4	24.0	1.0	52	.1	1.4	<.1	80	3.41	.047	4	71.5	1.80	77	.004	17	1.99	.037	.11	1.1	<.01	9.8	<.1	.33	7	<.5	<.3	.03	
183690	452.3	12.2	1.2	38	<.1	83.8	18.5	911	3.78	59.2	.3	6.0	.9	70	<.1	2.0	<.1	90	3.07	.037	4	139.1	2.21	37	.001	13	1.97	.019	.08	.3	<.01	11.7	<.1	.08	7	<.5	<.3	.01	
183691	25.7	19.8	1.2	51	.2	31.5	25.2	752	4.73	3335.0	.1	689.5	.4	107	.1	6.8	<.1	95	3.31	.039	2	98.2	2.43	43	<.001	19	2.23	.027	.20	.9	<.01	11.9	.1	.98	6	.8	<.3	.06	
183692	3.6	23.7	1.9	44	.4	21.7	23.1	965	4.36	5778.1	.1	1402.5	.5	143	.1	9.5	<.1	56	4.36	.074	3	35.7	2.00	51	<.001	18	1.41	.020	.21	.3	.02	8.9	.1	1.83	4	.9	.5	1.71	
STANDARD PCA	6.8	126.1	30.9	160	.3	35.4	11.8	792	3.20	24.0	6.5	28.0	3.8	27	5.4	4.6	5.2	76	.53	.086	17	166.8	.59	140	.090	2	1.75	.031	.15	3.7	.28	3.6	1.1	<.05	6	1.4	153	5	3

Standard is STANDARD DS4/R-2/AU-1.

GROUP 10X - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 9



SAMPLE#	Ho	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Hg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Aq**	Au**	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	gm/mt	gm/mt	
D 183611	9	70.2	1.2	40	<.1	9	12.4	422	2.40	7.2	.2	3.5	.6	53	<.1	.1	<.1	51	2.23	.076	6	3.6	63	53	.085	12	1.90	.121	.06	.7	.04	4.2	<.1	.73	7	<.5	<.3	<.01	Mic
D 183612	1.4	30.7	1.0	30	<.1	13.0	15.6	476	2.62	17.0	.2	1.6	.4	99	<.1	.1	<.1	76	2.03	.062	3	31.6	1.25	81	.102	13	2.34	.203	.07	3	.02	8.1	<.1	.37	7	<.5	<.3	<.01	Mic
D 183613	6.2	9.7	3.0	40	.4	31.2	28.4	1229	4.75	7815.1	<.1	1580.1	.1	179	.1	5.4	<.1	130	6.67	.028	2	46.6	2.53	51	.007	16	2.15	.055	.13	>200	.39	13.9	<.1	.97	5	<.5	<.3	1.75	0.05
D 183614	6.8	11.2	2.7	58	.3	64.5	41.5	1343	6.46	5594.1	.1	221.9	.1	163	<.1	3.6	<.1	137	5.33	.018	1	91.1	3.64	39	.002	12	2.68	.018	.16	3.9	.03	15.4	<.1	1.66	7	<.5	<.3	.22	0.01
D 183615	5.9	19.8	2.2	55	.2	44.3	42.3	1345	6.43	489.2	.1	35.0	.1	125	<.1	1.9	<.1	202	4.68	.028	2	80.1	3.76	44	.005	12	3.20	.016	.15	1.2	.01	18.5	<.1	.49	8	<.5	<.3	.06	Tr
D 183617	10.0	20.3	.8	55	.1	47.9	43.8	1354	6.69	139.6	.1	15.0	.1	68	.1	1.4	<.1	310	4.47	.016	1	145.5	4.33	41	.004	12	4.08	.017	.09	.4	.01	26.8	<.1	.17	12	<.5	<.3	.02	Tr
D 183618	1.0	37.2	.6	64	<.1	18.3	30.6	1240	5.43	5.9	.1	2.0	.2	71	.1	.6	<.1	234	4.38	.028	2	24.9	2.82	54	.129	15	2.97	.111	.07	.2	.02	23.2	<.1	.18	10	<.5	<.3	<.01	Mic
D 183622	1.7	32.0	.8	60	.1	52.0	30.6	1603	5.43	381.4	.2	59.8	1.0	147	.1	2.0	<.1	169	6.39	.065	7	122.5	2.91	36	.053	18	2.77	.030	.12	.1	.02	20.3	<.1	.22	9	<.5	<.3	.07	Tr
D 183623	6	22.2	1.0	111	<.1	95.8	39.7	1569	6.47	135.1	.6	33.3	2.9	36	<.1	1.0	<.1	164	3.20	.241	26	101.3	3.36	36	.264	10	3.38	.031	.08	.2	.02	11.2	<.1	.23	14	<.5	<.3	.03	Tr
D 183624	8	20.5	4.4	83	.1	81.6	36.2	2624	5.29	>9999	.4	5103.8	1.8	274	.1	24.4	<.1	81	12.02	.194	17	51.5	2.28	35	.019	14	2.54	.013	.11	1.4	.03	5.9	<.1	.79	9	1.7	<.3	5.47	0.16
D 183625	5	52.7	2.3	87	.3	83.4	29.7	1367	5.06	3408.0	.3	1068.0	1.5	76	<.1	8.2	.1	118	6.08	.132	13	98.7	2.77	33	.050	11	2.81	.026	.10	.6	.03	8.7	<.1	.55	10	1.2	<.3	1.27	.037
D 183626	4.8	65.1	7.2	44	1.6	23.8	16.9	1465	3.92	4706.9	<.1	3530.8	.1	295	.2	18.1	.1	38	11.75	.023	2	23.6	1.02	28	.003	10	.78	.011	.14	6.1	.03	6.1	<.1	2.09	2	1.6	1.9	4.24	0.12
D 183627	6.3	64.4	3.1	45	.4	15.2	19.8	1369	4.35	2042.2	.1	588.0	.1	227	.1	5.5	.1	103	8.37	.036	2	33.9	1.44	51	.003	13	1.72	.018	.23	1.0	.01	8.7	<.1	.97	5	.8	.4	.66	.02
D 183628	1.8	48.8	1.2	72	.2	50.0	26.3	1515	5.77	1313.0	.1	295.4	.5	115	.1	4.1	<.1	197	7.90	.027	3	116.2	2.16	37	<.001	12	2.57	.019	.15	.7	.03	14.1	<.1	.91	8	.6	<.3	.32	.01
D 183632	5.6	7.0	.3	27	<.1	71.8	21.7	473	3.15	19.5	.1	27.0	.1	92	<.1	.2	<.1	118	1.84	.012	1	62.9	2.30	33	.084	8	2.28	.200	.05	<.1	.01	13.3	<.1	<.05	6	<.5	<.3	.06	Tr
D 183635	11.0	11.6	3.0	46	.1	35.4	28.1	1394	4.81	1373.8	.1	151.8	.1	171	<.1	2.9	<.1	131	9.70	.023	2	80.7	2.26	40	.010	13	2.34	.038	.13	.7	.01	16.9	<.1	.36	6	.6	<.3	.15	.01
D 183636	2.3	9.3	1.9	32	.1	1.1	3.6	505	1.89	1697.9	.1	94.0	.6	28	.1	1.2	<.1	12	2.33	.063	5	2.1	.46	27	.002	13	1.01	.053	.10	.2	.03	2.1	<.1	.27	5	<.5	<.3	.08	Tr
D 183637	7.2	9.7	3.3	33	.3	6.6	5.9	489	2.04	>9999	.1	932.5	.4	42	.1	6.9	<.1	17	2.77	.065	3	16.4	.38	33	.003	13	.81	.040	.15	1.8	.02	2.7	<.1	.73	2	.5	<.3	1.05	.03
D 183638	2	26.1	1.0	36	<.1	2.5	5.2	656	2.59	121.9	.3	15.0	.5	30	.1	.4	<.1	35	1.49	.068	4	2.9	.67	45	<.001	13	1.27	.054	.14	<.1	.01	3.1	<.1	.41	6	<.5	<.3	.03	Tr
D 183639	1.0	25.3	1.1	30	<.1	2.2	4.8	649	2.48	41.6	.2	14.0	.5	30	<.1	.8	<.1	28	2.03	.066	3	5.7	.59	40	<.001	12	1.16	.044	.14	1.7	.01	2.2	<.1	.66	5	<.5	<.3	.01	Tr
D 183640	5	32.3	1.4	69	.1	67.9	33.9	1424	6.11	515.3	.1	137.8	.2	131	<.1	3.9	<.1	204	5.25	.033	2	111.4	3.43	46	<.001	10	3.13	.018	.19	.2	.01	20.4	<.1	.55	8	.5	<.3	.15	<.01
RE D 183640	4	32.8	1.3	75	.1	72.8	35.5	1479	6.37	552.7	.1	165.0	.2	130	<.1	4.0	<.1	213	5.44	.035	2	117.8	3.54	43	.001	11	3.23	.017	.18	3	<.01	20.4	<.1	.58	9	<.5	<.3	.15	<.01
RRE D 183640	6	32.6	1.2	63	.1	67.3	35.9	1472	6.40	533.5	.1	141.9	.2	129	.1	3.1	<.1	213	5.38	.034	2	122.3	3.53	44	.006	10	3.24	.017	.18	.3	<.01	20.2	<.1	.62	9	.5	<.3	.15	<.01
D 183642	5	115.2	1.3	52	.1	30.4	26.3	743	4.55	28.8	.3	39.0	.9	53	<.1	1.3	.1	149	1.84	.051	3	57.7	2.05	48	.119	12	2.11	.136	.08	.4	.02	12.8	.1	.98	7	<.5	<.3	.04	Tr
D 183643	9	25.9	5.8	32	.3	2.3	4.7	742	2.55	5530.6	.2	772.6	.4	49	.1	6.6	<.1	15	3.24	.065	3	6.0	.49	40	<.001	9	1.01	.037	.17	1.8	<.01	2.1	<.1	.93	4	.6	<.3	.89	Tr
D 183644	2	43.6	1.0	27	<.1	1.8	5.0	527	2.53	13.7	.2	2.0	.5	38	<.1	.3	.1	29	1.69	.063	4	2.2	.68	38	.003	10	1.13	.071	.10	<.1	.01	2.5	<.1	.65	5	<.5	<.3	<.01	Tr
D 183646	1.2	35.3	3.0	59	.4	41.8	27.3	1364	5.29	3719.7	.1	169.3	.1	150	.1	5.6	<.1	132	5.41	.038	2	74.3	2.76	25	<.001	8	2.12	.024	.11	4.5	.01	18.2	<.1	1.16	7	<.5	.3	.24	Tr
D 183647	2.1	38.9	2.1	55	.3	113.8	25.4	1278	4.27	2580.9	.1	403.0	.4	227	.1	8.0	<.1	75	5.97	.038	3	84.6	3.01	26	<.001	11	1.86	.022	.14	1.2	<.01	10.4	<.1	.34	5	<.5	<.3	.46	Tr
D 183648	2.5	88.9	2.8	51	.4	22.4	15.5	738	3.92	1090.7	<.1	291.1	.2	95	<.1	7.9	.1	48	3.09	.076	2	23.7	1.80	27	.002	8	1.40	.033	.18	.7	.01	5.5	.1	1.45	5	1.8	<.3	.35	Tr
D 183649	11.2	88.5	2.4	47	.3	30.9	15.7	833	3.98	477.2	<.1	137.6	.1	90	<.1	4.6	.1	60	4.12	.078	2	33.4	1.81	26	.001	8	1.69	.032	.16	1.3	.01	5.3	<.1	1.53	6	1.4	<.3	.15	Tr
D 183650	1.9	96.7	1.8	50	.4	12.0	13.6	772	3.21	648.6	<.1	226.1	.1	91	<.1	2.9	.1	50	3.49	.081	2	19.8	1.68	30	<.001	8	1.42	.031	.18	1.4	<.01	5.1	<.1	.96	5	.8	.4	.26	Tr
D 183651	1.3	62.4	1.4	44	.5	12.0	15.8	587	3.69	4159.8	<.1	1148.8	.1	92	.1	8.0	.1	45	2.18	.083	2	15.1	1.76	32	<.001	8	1.31	.028	.21	.3	.01	4.6	.1	1.47	4	1.1	.6	1.21	0.15
D 183654	1.0	5.2	6.7	24	.9	400.5	24.5	360	2.51	>9999	<.1	3519.5	.1	133	<.1	46.4	.2	22	1.96	.011	1	336.9	2.22	9	<.001	7	1.10	.009	.07	.2	.02	2.9	<.1	.73	4	5.9	.9	5.20	0.15
D 183657	1.9	45.1	2.4	75	.4	828.8	60.3	1990	4.56	3589.5	<.1	773.8	.3	271	.2	16.1	<.1	87	7.32	.046	4	911	1.761	8	.003	7	3.12	.013	.02	9	<.01	13.4	<.1	.27	8	7	<.3	.91	Tr
STANDARD DS4/R 27A0 1	6.8	124.1	30.9	159	.3	35.1	12.2	803	3.12	22.6	6.3	28.0	3.6	27	5.6	4.5	5.1	75	.52	.088	18	166.5	.58	139	.088	3	1.75	.032	.15	3.6	.27	4.0	1.1	.09	6	1.3	157.1	3.32	

Sample Type CORE R150 60C. Samples beginning 'RE' are Retuns and 'RRE' are Reject Retuns.