

LOG NO: 23-01	RD.
ACTION:	
FILE NO:	

APPENDIX E
ANALYTICAL CERTIFICATES
CORE SAMPLES

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

20,861

PART 3 OF 4

SEP 18 1990

705 WEST 15TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (604) 980-5814 OR (604) 988-4524
FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

Geochemical Analysis Certificate

OV-1368-RG1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W.ROBERTS

Date: SEP-12-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 ROCK samples submitted SEP-05-90 by W.ROBERTS.

Sample Number AU-FIRE PFB

90-43

23001 20
23002 2
23003 166
23004 140
23005 41

23006 40
23007 10
23008 22
23009 74
23010 100

23011 54
23012 22
23013 40
23014 12
23015 70

23016 43
23017 40
23018 16
23019 24
23020 20

23021 10
23022 41
23023 525
23024 57
23025 36

23026 44
23027 22
23028 41
23029 25
23030 60

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Geochemical Analysis Certificate

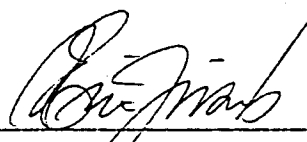
OV-1368-RG2

Company: COLUMBIA GOLD MINES
 Project: SPECTRUM
 Attn: W. ROBERTS

Date: SEP-12-90
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 16 ROCK samples submitted SEP-05-90 by W. ROBERTS.

Sample Number	AU-FIRE PFB
23031	48
23032	100
23033	104
23034	45
23035	47
23036	220
23037	137
23038	80
23039	2270
23040	37
23041	54
23042	27
23043	17
23044	40
23045	156
23046	38

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Assay Certificate

OV-1368-RA1

Company: **COLUMBIA GOLD MINES**
 Project: **SPECTRUM**
 Attn: **W.ROBERTS**

Date: **SEP-12-90**
 Copy 1. **COLUMBIA GOLD MINES, VANCOUVER, B.C.**

We hereby certify the following Assay of 1 ROCK samples submitted SEP-05-90 by W.ROBERTS.

Sample Number	AU g/tonne	AU oz/ton
23039	2.96	.086

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SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Assay Certificate

OV-1383-RA1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

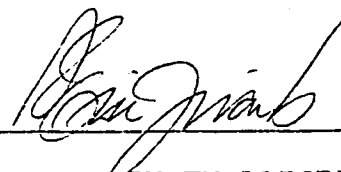
Date: SEP-11-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 24 ROCK samples
submitted SEP-07-90 by J.HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
23047	.17	.005
23048	.27	.008
23049	.41	.012
23050	.60	.018
23051	.40	.012
23052	.60	.018
23053	.40	.012
23054	.51	.015
23055	.18	.005
23056	3.59	.113
23057	.41	.012
23058	.01	.001
23059	.17	.005
23060	.32	.009
23061	.30	.009
23062	.14	.004
23063	.02	.001
23064	.01	.001
23065	.01	.001
23066	.10	.003
23067	.03	.001
23068	.09	.003
23069	.50	.015
23070	.84	.025

90-44

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Assay Certificate

OV-1383-RA2

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: SEP-11-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 24 ROCK samples submitted SEP-07-90 by J.HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
23071	.44	.013
23072	29.45	.859
23073	.38	.011
23074	.42	.012
23075	.10	.003
23076	.39	.011
23077	1.31	.038
23078	.23	.007
23079	.37	.011
23080	.20	.006
23081	.06	.002
23082	.21	.006
23083	.04	.001
23084	.23	.007
23085	.10	.003
23086	.19	.006
23087	.10	.003
23088	.32	.009
23089	.10	.003
23090	.18	.005
23091	.23	.007
23092	.43	.013
23093	.90	.026
23094	.20	.006

Certified by 



Assay Certificate

OV-1383-RA3

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: SEP-11-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 24 ROCK samples submitted SEP-07-90 by J.HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
23095	.40	.012
23096	.07	.002
23097	.27	.008
23098	.21	.006
23099	.16	.005
23100	.21	.006
23101	.20	.006
23102	.16	.005
23103	.48	.014
23104	.17	.005
23105	.08	.002
23106	.01	.001
23107	.16	.005
23108	.21	.006
23109	.01	.001
23110	.03	.001
23111	.01	.001
23112	.11	.003
23113	.03	.001
23114	.54	.016
23115	.36	.011
23116	.01	.001
23117	.12	.004
23118	1.64	.048

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SMITHERS LAB.:

TELEPHONE/FAX (604) 847-3004

Assay Certificate

0V-1383-RA4

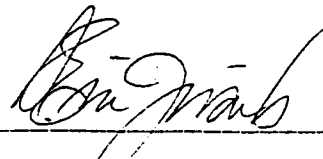
Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: SEP-10-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 13 ROCK samples
submitted SEP-07-90 by J. HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
23119	.01	.001
23120	.18	.005
23121	.03	.001
23122	.21	.006
23123	.36	.011
23124	.01	.001
23125	.01	.001
23126	.01	.001
23127	.10	.003
23128	.17	.005
23129	.13	.004
23130	.01	.001
23131	.01	.001

Certified by



MIN-EN LABORATORIES

Geochemical Analysis Certificate 0V-1383-RG1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: SEP-12-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 ROCK samples submitted SEP-07-90 by J.HYLANDS.

Sample Number	CU PPM
23047	154
23048	210
23049	136
23050	145
23051	53
23052	135
23053	127
23054	114
23055	144
23056	90
23057	106
23058	102
23059	128
23060	92
23061	56
23062	76
23063	24
23064	63
23065	123
23066	95
23067	108
23068	101
23069	102
23070	175
23071	129
23072	263
23073	134
23074	138
23075	90
23076	68

Certified by 
MIN-EN LABORATORIES

Geochemical Analysis Certificate

OV-1383-RG2

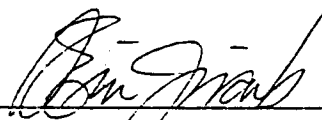
Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: SEP-12-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 ROCK samples submitted SEP-07-90 by J.HYLANDS.

Sample Number	CU PPM
23077	85
23078	148
23079	232
23080	134
23081	127
23082	132
23083	72
23084	159
23085	150
23086	64
23087	113
23088	131
23089	137
23090	146
23091	69
23092	26
23093	194
23094	186
23095	234
23096	83
23097	66
23098	95
23099	56
23100	202
23101	180
23102	33
23103	8
23104	189
23105	145
23106	107

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Geochemical Analysis Certificate

OV-1383-RG3

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: SEP-12-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 25 ROCK samples submitted SEP-07-90 by J.HYLANDS.

Sample Number	CU PPM
23107	113
23108	139
23109	143
23110	131
23111	121
23112	214
23113	249
23114	220
23115	114
23116	47
23117	157
23118	159
23119	188
23120	213
23121	246
23122	167
23123	135
23124	148
23125	160
23126	162
23127	23
23128	71
23129	125
23130	185
23131	229

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Assay Certificate

OV-1436-RA1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W. ROBERTS

Date: SEP-20-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 30 ROCK samples
submitted SEP-12-90 by J.J.HYLANDS.

90-45

Sample Number	AU g/tonne	AU oz/ton
23132	.32	.009
23133	.18	.005
23134	.36	.011
23135	21.50	.627
23136	.25	.008
23137	.63	.016
23138	.53	.015
23139	.26	.008
23140	.29	.008
23141	.32	.009
23142	.33	.010
23143	.30	.009
23144	.52	.015
23145	.28	.008
23146	.20	.006
23147	.22	.006
23148	.22	.006
23149	.14	.004
23150	.59	.017
23151	.30	.009
23152	.24	.007
23153	.58	.017
23154	.54	.016
23155	.16	.005
23156	.17	.005
23157	.26	.008
23158	.44	.013
23159	.32	.009
23160	.50	.015
23161	.50	.015

Certified by 
MIN-EN LABORATORIES



Assay Certificate

OV-1436-RA2

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W. ROBERTS

Date: SEP-20-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 30 ROCK samples
submitted SEP-12-90 by J.J. HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
23162	.49	.014
23163	.66	.019
23164	7.08	.207
23165	.83	.024
23166	.97	.028
23167	.20	.006
23168	.18	.005
23169	.34	.010
23170	.34	.010
23171	.10	.003
23172	.10	.003
23173	.15	.004
23174	.88	.026
23175	.48	.014
23176	.09	.003
23177	.08	.002
23178	.01	.001
23179	.26	.008
23180	.06	.002
23181	.18	.005
23182	.06	.002
23183	.12	.004
23184	.10	.003
23185	.57	.017
23186	.13	.004
23187	.18	.005
23188	.14	.004
23189	.08	.002
23190	.06	.002
23191	.12	.004

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 FAX (807) 623-5931

SMITHERS LAB.:
 TELEPHONE/FAX (604) 847-3004

Assay Certificate

OV-1436-RA3

Company: COLUMBIA GOLD MINES
 Project: SPECTRUM
 Attn: W. ROBERTS

Date: SEP-20-90
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 4 ROCK samples
 submitted SEP-12-90 by J.J.HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
23192	.08	.002
23193	.06	.002
23194	.08	.002
23195	.20	.006

Certified by _____

MIN-EN LABORATORIES

Geochemical Analysis Certificate

OV-1436-RG1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W. ROBERTS

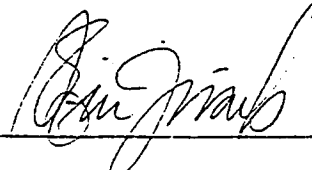
Date: SEP-15-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 ROCK samples submitted SEP-12-90 by J.J. HYLANDS.

90-45

Sample Number	AU-FIRE PFB	CU PPM
23132	320	1075
23133	180	942
23134	362	779
23135	19000	1350
23136	285	1200
23137	530	1000
23138	527	759
23139	260	1110
23140	290	1160
23141	320	1300
23142	328	1350
23143	300	1360
23144	522	2150
23145	280	1350
23146	200	1025
23147	222	1000
23148	220	815
23149	142	693
23150	590	1475
23151	300	1200
23152	242	696
23153	580	1100
23154	540	1010
23155	160	1125
23156	170	1200
23157	260	1375
23158	442	1040
23159	317	810
23160	500	631
23161	498	1410

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Geochemical Analysis Certificate

OV-1436-RG2

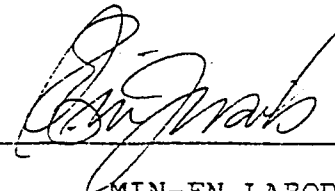
Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W. ROBERTS

Date: SEP-15-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 ROCK samples submitted SEP-12-90 by J.J.HYLANDS.

Sample Number	AU-FIRE PPB	CU PPM
23162	490	650
23163	660	700
23164	7000	130
23165	830	227
23166	970	374
23167	200	1200
23168	180	1225
23169	340	1230
23170	338	1300
23171	102	700
23172	103	625
23173	154	640
23174	882	610
23175	480	840
23176	90	645
23177	80	595
23178	9	575
23179	260	477
23180	60	473
23181	176	405
23182	61	299
23183	118	391
23184	97	387
23185	570	850
23186	129	444
23187	180	456
23188	140	501
23189	80	321
23190	59	302
23191	117	252

Certified by



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Geochemical Analysis Certificate

OV-1436-RG3

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W. ROBERTS

Date: SEP-14-90

Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 4 ROCK samples submitted SEP-12-90 by W. ROBERTS.

Sample Number	AU-FIRE PPB	CU PPM
23192	78	342
23193	56	306
23194	72	296
23195	200	355

Certified by



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 FAX (807) 623-5931

SMITHERS LAB.:
 TELEPHONE/FAX (604) 847-3004

Assay Certificate

OV-1436-RA1

Company: COLUMBIA GOLD MINES
 Project: SPECTRUM
 Attn: W. ROBERTS

Date: SEP-15-90
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 2 ROCK samples
 submitted SEP-12-90 by J.J.HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
23135	21.50	.627
23164	7.08	.207

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 FAX (807) 623-5931

SMITHERS LAB.:
 TELEPHONE/FAX (604) 847-3004

Metallic Assay Certificate

OV-1436-RM1

Company: COLUMBIA GOLD MINES
 Project: SPECTRUM
 Attn: W. ROBERTS

Date: OCT-16-90
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Metallic Assay of 2 METALLIC samples submitted OCT-08-90 by J.J. HYLANDS.

90-45

Sample Number	Total		+120 M		Assay Value Au		Total Weight Au		Metallic Au		Net Au	
	Wt (g)	Wt (g)	+120(g/t)	-120(g/t)	+120(mg)	-120(mg)	(oz/ton)	(g/t)	(oz/ton)	(g/t)		
23135	916.56	46.56	69.59	14.58	3.240	12.685	0.103	3.54	0.507	17.37		
23164	372.60	12.60	10.38	6.98	0.131	2.513	0.010	0.35	0.207	7.09		

Certified by _____

MEN-EN LABORATORIES



Assay Certificate

OV-1438-RA1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: SEP-20-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 30 ROCK samples submitted SEP-12-90 by WAYNE ROBERTS.

90-46

Sample Number	AU g/tonne	AU oz/ton
23196	.40	.012
23197	.30	.009
23198	.36	.011
23199	.28	.008
23200	.64	.025
23201	.08	.002
23202	.20	.006
23203	.30	.009
23204	.16	.005
23205	.24	.007
23206	.24	.007
23207	.24	.007
23208	.32	.009
23209	2.80	.082
23210	*6.97	.203
23211	*13.60	.397
23212	*.40	.012
23213	1.44	.042
23214	*51.00	1.468
23215	*1.37	.040
23216	*5.60	.163
23217	.51	.015
23218	.50	.015
23219	.56	.016
23220	5.20	.152
23221	.17	.005
23222	.06	.002
23223	.12	.004
23224	.21	.006
23225	.07	.002

*SAMPLES CONTAIN METALLIC GOLD, RECOMMEND METALLIC GOLD ASSAY.

Certified by

MIN-EN LABORATORIES

Assay Certificate

OV-1438-RA2

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

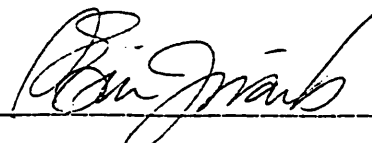
Date: SEP-20-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 30 ROCK samples
submitted SEP-12-90 by WAYNE ROBERTS.

Sample Number	AU g/tonne	AU oz/ton
23226	.08	.002
23227	.16	.005
23228	.08	.002
23229	.10	.003
23230	.08	.002
23231	.15	.004
23232	.42	.012
23233	.12	.004
23234	.32	.009
23235	.12	.004
23236	.08	.002
23237	.28	.008
23238	.12	.004
23239	.08	.002
23240	.04	.001
23241	.07	.002
23242	.06	.002
23243	.62	.018
23244	.05	.001
23245	.12	.004
23246	.08	.002
23247	.20	.006
23248	.74	.022
23249	.08	.002
23250	.07	.002
23251 -	*1.21	.035
23252	.12	.004
23253	.07	.002
23254	.08	.002
23255	.08	.002

*SAMPLE CONTAINS METALLIC GOLD, RECOMMEND METALLIC GOLD ASSAY.

Certified by



MIN-EN LABORATORIES



Assay Certificate

OV-1438-RA3

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: SEP-20-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 30 ROCK samples submitted SEP-12-90 by WAYNE ROBERTS.

Sample Number	AU g/tonne	AU oz/ton
23256	.12	.004
23257	.08	.002
23258	*.30	.009
23259	.11	.003
23260	.58	.017
23261	.58	.011
23262	10.60	.309
23263	1.48	.043
23264	.26	.008
23265	.24	.007
23266	.31	.009
23267	.27	.008
23268	.13	.004
23269	.12	.004
23270	.08	.002
23271	*118.00	3.442
23272	.67	.020
23273	.04	.001
23274	.26	.008
23275	*1.19	.035
23276	*4.95	.144
23277	.03	.001
23278	*2.08	.061
23279	.06	.002
23280	.03	.001
23281	.03	.001
23282	.03	.001
23283	.20	.006
23284	*7.00	.204
23285	.17	.005

*SAMPLES CONTAIN METALLIC GOLD, RECOMMEND METALLIC GOLD ASSAY.

Certified by _____

MIN-EN LABORATORIES



Assay Certificate

0V-1438-RA4

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: SEP-20-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 30 ROCK samples submitted SEP-12-90 by WAYNE ROBERTS.

Sample Number	AU g/tonne	AU oz/ton
23286	.12	.004
23287	.04	.001
23288	.64	.019
23289	.04	.001
23290	.20	.006
23291	.32	.009
23292	.11	.003
23293	.08	.002
23294	.13	.004
23295	.79	.023
23296	.66	.019
23297	.58	.029
23298	.24	.007
23299	.36	.011
23300	.19	.006
23301	.04	.001
23302	.24	.007
23303	.15	.004
23304	.07	.002
23305	.28	.008
23306	.04	.001
23307	.15	.004
23308	.08	.002
23309	.24	.007
23310	.38	.011
23311	.16	.005
23312	.12	.004
23313	.12	.004
23314	.01	.001
23315	.01	.001

Certified by *Ben Grah*

Assay Certificate

OV-1438-RA5

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: SEP-20-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 2 ROCK samples
submitted SEP-12-90 by WAYNE ROBERTS.

Sample Number	AU g/tonne	AU oz/ton
23316	.01	.001
23317	.01	.001

Certified by _____


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FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1438-RG1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W. ROBERTS

Date: SEP-15-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

He hereby certify the following Geochemical Analysis of 30 ROCK samples submitted SEP-12-90 by J.J.HYLANDS.

90-46

Sample Number	AU-FIRE PFB	CU PPM
23196	397	1160
23197	302	1025
23198	356	650
23199	279	1250
23200	845	2300
23201	84	156
23202	202	950
23203	295	1300
23204	156	1300
23205	237	1100
23206	239	1200
23207	245	1150
23208	324	4200
23209	2180	3425
23210	40000	12000
23211	5600	3600
23212	1500	1750
23213	1900	2350
23214	27000	1610
23215	1000	1800
23216	20000	2100
23217	508	1240
23218	502	1050
23219	565	1450
23220	4250	1200
23221	167	1025
23222	158	800
23223	123	910
23224	212	810
23225	73	650

Certified by



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SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

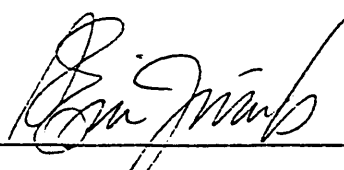
OV-1438-RG2

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W. ROBERTS

Date: SEP-15-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 ROCK samples submitted SEP-12-90 by J.J.HYLANDS.

Sample Number	AU-FIRE PPB	CU PPM
23226	78	533
23227	162	826
23228	79	920
23229	104	485
23230	80	354
23231	148	681
23232	420	470
23233	116	553
23234	322	549
23235	117	512
23236	78	560
23237	284	481
23238	119	570
23239	80	588
23240	39	520
23241	72	499
23242	56	538
23243	615	344
23244	51	535
23245	120	466
23246	76	380
23247	203	421
23248	735	558
23249	82	587
23250	74	509
23251	14000	511
23252	117	445
23253	69	430
23254	83	456
23255	75	357

Certified by 
MIN-EN LABORATORIES

Geochemical Analysis Certificate

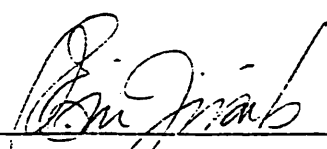
OV-1438-RG3

Company: COLUMBIA GOLD MINES
 Project: SPECTRUM
 Attn: W. ROBERTS

Date: SEP-15-90
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 ROCK samples submitted SEP-12-90 by J.J.HYLANDS.

Sample Number	AU-FIRE PPB	CU PPM
23256	119	470
23257	83	398
23258	2000	372
23259	112	550
23260	575	433
23261	377	432
23262	8600	497
23263	1500	850
23264	257	423
23265	238	485
23266	312	501
23267	269	391
23268	133	504
23269	121	487
23270	82	470
23271	1200	352
23272	670	490
23273	43	476
23274	265	600
23275	2000	550
23276	3280	362
23277	34	255
23278	1475	232
23279	63	417
23280	31	392
23281	28	345
23282	32	307
23283	195	327
23284	4700	415
23285	167	244

Certified by 
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Geochemical Analysis Certificate OV-1438-RG4

Company: COLUMBIA GOLD MINES Date: SEP-15-90
Project: SPECTRUM Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.
Attn: W. ROBERTS

We hereby certify the following Geochemical Analysis of 30 ROCK samples submitted SEP-12-90 by J.J.HYLANDS.

Sample Number	AU-FIRE PPB	CU PPM
23286	118	333
23287	39	432
23288	648	402
23289	42	363
23290	198	427
23291	322	426
23292	107	507
23293	85	347
23294	128	493
23295	790	1200
23296	665	479
23297	975	268
23298	245	348
23299	362	314
23300	194	271
23301	41	292
23302	243	370
23303	152	400
23304	66	312
23305	278	448
23306	45	225
23307	150	339
23308	77	275
23309	236	325
23310	385	375
23311	162	282
23312	118	208
23313	120	237
23314	13	177
23315	9	169

Certified by 
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SMITHERS LAB.:
 TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

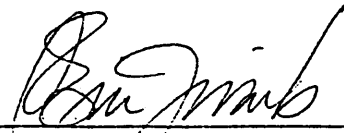
OV-1438-RG5

Company: COLUMBIA GOLD MINES
 Project: SPECTRUM
 Attn: W. ROBERTS

Date: SEP-15-90
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 2 ROCK samples submitted SEP-12-90 by J.J.HYLANDS.

Sample Number	AU-FIRE PFB	CU PFM
23316	2	120
23317	3	147

Certified by 

MIN-EN LABORATORIES

Assay Certificate

OV-1438-RA1

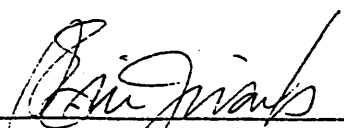
Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W. ROBERTS

Date: SEP-15-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

He hereby certify the following Assay of 18 ROCK samples submitted SEP-12-90 by J.J.HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
23209	2.80	.082
23210	*6.97	.203
23211	*13.60	.397
23212	*.40	.012
23213	1.44	.042
23214	*51.00	1.488
23215	*1.37	.040
23216	*5.60	.163
23220	5.20	.152
23251	*1.21	.035
23258	*.30	.009
23262	10.60	.309
23263	1.48	.043
23271	*118.00	3.442
23275	*1.19	.035
23276	*4.95	.144
23278	*2.08	.061
23284	*7.00	.204

* SAMPLES CONTAIN METALLIC GOLD, RECOMMEND METALLIC GOLD ASSAY.

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FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Metallic Assay Certificate

OV-1438-RM1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W.J. ROBERTS

Date: OCT-19-90
Copy 1. COLUMBIA GOLD, VANCOUVER, B.C.

We hereby certify the following Metallic Assay of 24 METALLICS samples submitted OCT-16-90 by J.J. HYLANDS.

90-46

Sample Number	Total		Assay Value Au		Total Weight Au		Metallic Au		Net Au	
	Wt (g)	+120 M Wt (g)	+120(g/t)	-120(g/t)	+120(mg)	-120(mg)	(oz/ton)	(g/t)	(oz/ton)	(g/t)
23210	945.10	25.10	3082.15	34.57	77.362	31.804	2.387	81.86	3.369	115.51
23211	1241.95	21.95	181.78	6.54	3.990	7.979	0.094	3.21	0.281	9.64
23212	2061.39	51.39	22.53	1.13	1.158	2.271	0.016	0.56	0.049	1.66
23213	1634.90	24.90	11.81	1.40	0.294	2.254	0.005	0.18	0.045	1.56
23214	587.56	7.56	2500.00	28.50	18.900	16.530	0.938	32.17	1.759	60.30
23215	1625.54	20.34	11.71	4.22	0.238	6.773	0.004	0.15	0.126	4.31
23216	2210.77	25.77	25.96	10.67	0.669	23.314	0.009	0.30	0.316	10.25
23217	2214.31	29.31	6.81	1.36	0.200	2.972	0.003	0.09	0.042	1.43
23218	2250.89	20.89	14.39	4.39	0.301	9.790	0.004	0.13	0.131	4.48
23219	2282.59	22.59	.17	.39	0.004	0.881	0.000	0.00	0.011	0.39
23220	2211.40	21.40	12.48	2.42	0.267	5.300	0.004	0.12	0.073	2.32
23251	894.90	14.90	27.58	1.00	0.411	0.880	0.013	0.46	0.042	1.44
23258	1754.10	54.10	26.01	1.03	1.407	1.751	0.023	0.80	0.053	1.90
23262	2683.45	38.45	194.28	.96	7.470	2.539	0.081	2.78	0.109	3.73
23263	948.62	8.62	31.15	5.23	0.269	4.916	0.008	0.28	0.157	5.47
23271	915.62	15.62	614.60	7.64	9.500	6.876	0.306	10.48	0.525	17.99
23272	1137.96	17.96	.45	.53	0.008	0.594	0.000	0.01	0.015	0.53
23273	2303.14	3.14	.10	.06	0.000	0.138	0.000	0.00	0.002	0.06
23274	2186.54	1.54	.39	.35	0.001	0.765	0.000	0.00	0.010	0.35
23275	2035.16	65.16	2.11	.67	0.137	1.320	0.002	0.07	0.021	0.72
23276	1313.00	13.00	31.85	3.02	0.414	3.926	0.009	0.32	0.096	3.31
23277	1502.55	32.55	.02	.03	0.001	0.044	0.000	0.00	0.001	0.03
23278	1600.02	40.02	9.45	1.39	0.378	2.168	0.007	0.24	0.046	1.59
23284	420.18	3.38	45.00	4.68	0.152	1.951	0.011	0.36	0.146	5.00

Certified by

MIN-EN LABORATORIES

Table with columns: SAMPLE NUMBER, AG PPM, AL PPM, AS PPM, B PPM, BA PPM, BE PPM, BI PPM, CA PPM, CD PPM, CO PPM, CU PPM, FE PPM, K PPM, LI PPM, MG PPM, NH PPM, MO PPM, NA PPM, NI PPM, P PPM, PB PPM, SB PPM, SR PPM, TH PPM, U PPM, V PPM, ZN PPM, GA PPM, SN PPM, W PPM, CR PPM. Rows list sample numbers and their corresponding concentrations for 26 different elements.

COMP: COLUMBIA GOLD MINES
 PROJ: SPECTRUM
 ATTN: W.J. ROBERTS

MIN-EN LABS - ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)980-4524

FILE NO: 0V-1438-RJ3+4
 DATE: 90/11/26
 * PULPS * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM
23256	2.3	20880	439	10	50	.7	2	19780	7.9	27	494	52310	5550	23	20000	526	1	690	1	2270	9	2	21	1	1	176.3	136	1	1	1	13
23257	1.8	19490	6	7	50	.4	3	16220	.1	22	381	46230	6040	18	18110	427	6	770	1	2620	8	1	22	1	1	193.7	44	1	1	1	19
23258	2.2	24530	1	6	68	.7	3	22170	.1	23	401	46250	5350	16	16530	505	12	2340	1	2960	13	1	51	1	1	191.4	45	2	1	1	14
23259	2.1	15300	64	6	40	.6	2	27250	.1	25	570	53780	2540	15	11360	771	1	480	1	2070	21	8	30	1	1	123.7	107	1	2	1	17
23260	2.4	13440	204	6	79	.4	2	36430	5.7	23	464	52510	1550	13	7620	1416	1	40	1	2020	21	40	38	1	1	68.9	318	1	1	1	20
23261	2.5	12460	702	6	31	.9	3	21700	18.3	20	450	46530	2220	13	5610	1087	31	70	1	3090	26	107	26	1	1	55.2	176	1	1	1	17
23262	4.4	11150	243	6	37	.6	6	23910	4.5	21	494	52320	3600	5	10520	1931	42	340	1	2290	32	34	24	1	1	60.6	419	1	1	1	25
23263	7.2	9210	164	5	27	.5	10	25200	34.3	26	997	63740	3330	5	9660	1262	20	40	1	2080	127	37	29	1	1	28.9	2991	1	1	1	44
23264	4.3	14040	154	6	23	.6	1	38760	.1	24	510	63070	2190	14	20630	1244	5	90	1	1840	30	33	32	1	1	46.8	269	1	2	1	7
23265	2.8	12720	127	6	34	.5	3	30050	.1	27	552	59790	2090	13	12630	967	8	150	1	2200	20	32	24	1	1	57.0	164	1	2	1	13
23266	8.0	9360	3060	7	33	.3	5	43530	104.7	21	569	56350	2370	7	14780	1953	18	50	1	2090	254	101	30	1	1	30.4	2421	1	2	1	12
23267	2.3	23870	60	17	51	.9	3	29750	.1	21	420	45960	5660	17	15560	735	5	1920	1	3010	26	18	64	1	1	145.3	87	2	2	1	17
23268	2.6	28880	1	4	65	.6	4	27310	.1	25	527	49650	5670	16	18860	593	2	3080	1	3300	11	3	90	1	1	224.4	49	2	1	1	17
23269	2.4	26120	1	5	43	.6	3	32500	.1	27	530	56790	4390	22	20460	755	1	2100	1	2970	10	8	66	1	1	204.7	45	2	2	1	11
23270	2.4	19340	21	5	27	.7	1	41080	.1	23	536	50830	2380	22	15270	1220	6	270	1	2640	20	14	44	1	1	112.1	37	2	2	1	13
23271	3.2	16160	4980	3	49	.6	20	31550	117.4	23	369	44440	2610	16	15570	772	6	550	1	2360	21	29	23	1	1	122.2	42	2	1	1	29
23272	6.0	16230	1771	5	47	.1	2	34910	85.0	26	518	53950	2920	14	13650	1450	7	500	2	2450	286	47	35	1	1	109.8	3458	1	1	2	42
23273	3.3	24310	1	5	36	.4	5	26190	.1	27	509	60200	2350	26	23580	769	1	1610	1	2930	5	13	38	1	1	219.5	90	1	1	1	11
23274	2.9	22470	89	5	31	.4	6	31230	.1	33	720	59500	1240	21	20570	756	2	1300	1	3240	11	20	34	1	1	212.5	50	2	1	1	17
23275	3.3	19390	116	5	27	.7	1	34730	1.9	24	584	52790	2310	17	14790	2310	2	830	1	3060	30	49	35	1	1	152.1	422	2	1	1	13
23276	28.0	7230	13210	5	23	.1	9	47040	405.3	20	432	68210	2400	2	9790	6508	6	20	1	1830	3084	1194	26	1	1	27.9	5422	1	1	2	39
23277	2.2	15760	116	5	45	.7	2	33600	.1	16	294	36350	3860	14	14240	1301	2	520	3	2860	48	40	33	1	1	99.9	96	1	2	1	16
23278	3.4	15780	5240	4	37	.6	13	36800	128.8	38	278	35220	3210	15	12070	1015	5	580	3	2760	54	34	30	1	1	110.6	213	2	2	1	13
23279	5.9	15960	55	3	32	.5	2	30450	10.9	23	448	45280	3080	14	16080	874	5	340	1	2840	300	22	29	1	1	145.2	1063	2	1	1	12
23280	3.3	19480	56	5	51	.9	2	32740	.1	20	461	44630	4990	19	18060	896	7	410	1	2850	39	20	25	1	1	149.6	171	2	2	1	19
23281	1.8	17640	28	4	55	.6	2	19860	.1	26	356	48660	6780	16	18580	532	26	430	1	2610	27	9	18	1	1	147.3	46	1	1	1	11
23282	2.4	19800	1	3	74	.8	2	25370	.1	21	329	43750	7940	17	23850	686	14	450	1	2530	16	11	19	1	1	165.4	52	1	2	1	20
23283	2.5	19200	5716	3	82	.6	3	30610	135.3	33	368	43350	6000	19	20260	937	1	540	1	2170	20	41	27	1	1	142.5	53	2	2	1	20
23284	79.8	15060	8939	4	55	.3	3	37480	227.6	16	433	49060	4660	11	13890	3685	4	580	3	2080	582	2335	33	1	1	95.0	692	1	2	1	60
23285	2.8	19980	52	3	56	.6	2	27060	.1	16	282	39310	6030	24	23560	985	1	490	1	2590	53	29	27	1	1	159.6	116	1	1	1	18
23286	2.3	18970	1	9	84	.7	2	20440	.1	20	350	48050	7050	21	24270	534	1	540	1	2500	9	5	22	1	1	160.3	36	1	1	1	19
23287	2.4	15420	1	8	63	.3	2	26390	.1	26	469	51190	2000	20	15860	564	1	730	1	2620	15	4	34	1	1	163.4	38	1	1	1	14
23288	1.8	16330	17	7	53	.9	5	32290	.1	22	410	42700	2070	16	9710	599	13	390	2	2570	24	17	39	1	1	97.0	40	1	1	1	17
23289	2.7	23060	1	9	124	.8	2	26740	.1	21	379	46980	7610	21	22330	678	26	280	1	2670	25	4	24	1	1	158.3	47	1	2	1	10
23290	2.5	24050	88	8	71	1.1	1	33260	.1	24	463	60010	5000	25	20520	779	6	230	10	2390	14	13	30	1	1	142.6	44	1	1	1	20
23291	3.3	23670	441	10	147	1.0	3	51290	10.7	31	526	80100	2330	27	14310	1199	4	210	7	2240	32	28	34	1	1	134.2	294	2	2	2	42
23292	2.3	20240	128	8	100	.7	3	39330	.1	39	619	67150	3070	22	14700	822	1	230	1	2210	22	10	29	1	1	120.4	27	2	2	1	16
23293	2.4	14550	90	4	72	.5	3	59880	.1	13	416	45990	2830	13	13660	1589	1	140	8	1900	14	12	55	1	1	56.0	32	2	2	1	13
23294	2.1	27220	1	10	121	1.0	2	24920	.1	15	546	65970	8270	24	21140	531	8	340	1	2780	17	5	32	1	1	143.5	38	1	1	1	10
23295	3.5	23090	1	11	75	.9	1	21540	.1	31	1286	104880	5110	22	13540	423	16	320	1	2890	8	10	28	1	1	108.2	38	1	1	1	5
23296	2.1	24470	1	8	142	.6	2	27720	.1	15	507	69250	6870	21	20620	570	12	500	1	2790	8	3	38	1	1	177.6	34	2	2	1	16
23297	4.9	24250	16	11	164	.7	4	34140	.1	13	294	52080	8840	24	20700	659	18	720	3	2720	8	3	45	1	1	162.9	36	2	2	1	36
23298	2.0	17680	26	10	48	1.1	2	45370	.1	19	394	47770	2710	21	7970	937	2	150	1	2760	23	19	53	1	1	72.9	86	2	2	1	18
23299	2.2	15420	74	8	65	.7	2	45340	.1	16	325	35980	2960	13	8970	961	3	230	1	2440	21	7	57	1	1	72.6	126	2	1	1	19
23300	2.3	19960	23	6	82	1.0	3	39580	.1	20	293	44050	4840	15	13850	775	4	800	1	2830	13	4	57	1	1	124.3	31	2	1	1	19
23301	1.7	18500	11	6	67	.9	1	38910	.1	20	310	41310	4110	17	13570	810	1	770	6	2810	21	4	53	1	1	115.3	35	2	2	1	12
23302	2.2	20990	17	8	109	.8	2	45070	.1	24	437	53690	5240	22	15900	1002	2	480	2	2420	25	9	43	1	1	129.5	30	2	2	1	36
23303	1.8	15130	55	4	67	.9	1	47810	.1																						

Assay Certificate

OV-1437-RA1

Company: COLUMBIA GOLD MINE
Project: SPECTRUM
Attn: W. ROBERTS

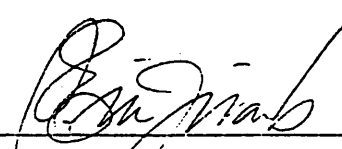
Date: SEP-20-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

He hereby certify the following Assay of 30 ROCK samples
submitted SEP-12-90 by J.J.HYLANDS.

90-47

Sample Number	AU g/tonne	AU oz/ton
23318	.16	.005
23319	.06	.002
23320	.20	.006
23321	.11	.003
23322	.06	.002
23323	.15	.004
23324	.05	.001
23325	.24	.007
23326	.22	.006
23327	.30	.009
23328	.28	.008
23329	.28	.008
23330	.08	.002
23331	.10	.003
23332	.10	.003
23333	.08	.002
23334	.44	.013
23335	.12	.004
23336	.09	.003
23337	.19	.006
23338	.14	.004
23339	.12	.004
23340	.18	.005
23341	.14	.004
23342	.20	.006
23343	.18	.005
23344	.20	.006
23345	.12	.004
23346	.26	.008
23347 -	1.34	.039

Certified by



MIN-EN LABORATORIES

Assay Certificate

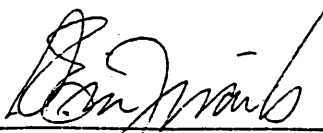
OV-1437-RA2

Company: COLUMBIA GOLD MINE
 Project: SPECTRUM
 Attn: W. ROBERTS

Date: SEP-20-90
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 30 ROCK samples submitted SEP-12-90 by J.J.HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
23348-	.71	.021
23349-	.40	.012
23350-	.22	.006
23351-	1.29	.038
23352-	.80	.023
23353-	.45	.013
23354-	.14	.004
23355-	.18	.005
23356-	1.92	.056
23357-	.30	.009
23358-	1.94	.057
23359-	.43	.013
23360-	6.98	.204
23361-	8.03	.234
23362-	4.82	.141
23363	.30	.009
23364	.30	.009
23365	.34	.010
23366	.28	.008
23367	.38	.011
23368	.61	.018
23369	.63	.018
23370	.36	.011
23371	1.38	.040
23372	.68	.020
23373	.52	.015
23374	.02	.001
23375	1.62	.047
23376	.11	.003
23377	.12	.004

Certified by 

Assay Certificate

OV-1437-RA3

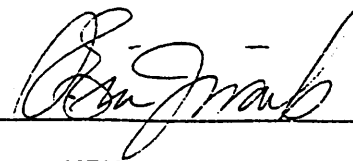
Company: COLUMBIA GOLD MINE
Project: SPECTRUM
Attn: W. ROBERTS

Date: SEP-20-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 30 ROCK samples
submitted SEP-12-90 by J.J.HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
23378	.40	.012
23379	.36	.011
23380	.31	.009
23381 -	5.40	.158
23382 -	5.80	.169
23383 -	4.97	.145
23384 -	3.20	.093
23385 -	4.00	.117
23386 -	3.22	.094
23387 -	2.01	.059
23388 -	.19	.006
23389 -	.61	.018
23390 -	.67	.020
23391 -	.53	.015
23392 -	.24	.007
23393 -	1.76	.051
23394 -	1.21	.035
23395 -	1.82	.053
23396 -	20.00	.583
23397	.28	.008
23398	.16	.005
23399	.16	.005
23400	.69	.020
23401 -	11.30	.330
23402 -	1.20	.035
23403	.94	.027
23404	.12	.004
23405	.38	.011
23406	.41	.012
23407 -	1.66	.048

Certified by



MIN-EN LABORATORIES



Assay Certificate

OV-1437-RA4

Company: COLUMBIA GOLD MINE
Project: SPECTRUM
Attn: W. ROBERTS

Date: SEP-20-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 30 ROCK samples submitted SEP-12-90 by J.J.HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
23408 -	.58	.017
23409 -	.32	.009
23410 -	3.40	.099
23411 -	1.22	.036
23412 -	2.40	.070
23413	.37	.011
23414	.05	.001
23415	.05	.001
23416	.05	.001
23417	.06	.002
23418	.02	.001
23419	.08	.002
23420 -	2.41	.070
23421 -	1.96	.057
23422 -	2.81	.082
23423 ~	.56	.016
23424 -	7.80	.228
23425	.12	.004
23426	.58	.017
23427	.04	.001
23428	.12	.004
23429	.21	.006
23430	.56	.016
23431	.08	.002
23432	.44	.013
23433	.20	.006
23434	.05	.001
23435	.08	.002
23436	.07	.002
23437	.07	.002

Certified by _____

MIN-EN LABORATORIES

Geochemical Analysis Certificate

OV-1437-RG1

Company: COLUMBIA GOLD MINE
 Project: SPECTRUM
 Attn: W.ROBERTS

Date: SEP-15-90
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 ROCK samples submitted SEP-12-90 by J.J.HYLANDS.

90-47

Sample Number	AU-FIRE PPB	CU PPM
23318	164	1350
23319	65	393
23320	195	1400
23321	108	1050
23322	61	1250
23323	148	625
23324	45	650
23325	240	1600
23326	220	2000
23327	305	2100
23328	282	1950
23329	280	2050
23330	80	416
23331	100	629
23332	105	791
23333	79	660
23334	436	3950
23335	125	435
23336	90	346
23337	186	280
23338	141	3088 ?
23339	118	1125
23340	182	1500
23341	145	1525
23342	202	1580
23343	180	1450
23344	198	1525
23345	120	2075
23346	260	845
23347	1400	1050

Certified by *Eric Grub*
 MIN-EN LABORATORIES



Geochemical Analysis Certificate

OV-1437-RG2

Company: **COLUMBIA GOLD MINE**
Project: **SPECTRUM**
Attn: **W. ROBERTS**

Date: **SEP-15-90**
Copy 1. **COLUMBIA GOLD MINES, VANCOUVER, B.C.**

We hereby certify the following Geochemical Analysis of 30 ROCK samples submitted SEP-12-90 by J.J.HYLANDS.

Sample Number	AU-FIRE PPB	CU PPM
23348	709	910
23349	400	564
23350	220	1125
23351	1280	672
23352	800	749
23353	448	645
23354	140	1000
23355	185	648
23356	1250	1400
23357	300	1110
23358	2500	1550
23359	426	1510
23360	6970	4510
23361	5800	1375
23362	4800	1475
23363	304	1100
23364	302	1050
23365	340	960
23366	280	680
23367	382	1450
23368	610	860
23369	632	1525
23370	355	1240
23371	1850	1000
23372	680	940
23373	515	610
23374	21	86
23375	1260	799
23376	108	842
23377	122	621

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MIN-EN LABORATORIES



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(DIVISION OF ASSAYERS CORP.)

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:
705 WEST 15TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (604) 980-5814 OR (604) 988-4524
FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1437-RG3

Company: COLUMBIA GOLD MINE
Project: SPECTRUM
Attn: W. ROBERTS

Date: SEP-15-90

Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 ROCK samples submitted SEP-12-90 by J.J. HYLANDS.

Sample Number	AU-FIRE PPB	CU PPM
23378	398	1025
23379	365	506
23380	213	254
23381	5500	1250
23382	5300	2300
23383	5000	2500
23384	2650	2100
23385	3900	1800
23386	2700	2600
23387	2300	2100
23388	194	1350
23389	612	1240
23390	668	1310
23391	530	2675
23392	238	600
23393	2000	1450
23394	1240	1975
23395	3000	1125
23396	10000	1525
23397	276	469
23398	159	1360
23399	157	1550
23400	688	1510
23401	12000	23000
23402	11550	2750
23403	935	2100
23404	119	262
23405	385	309
23406	408	700
23407	1800	550

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NORTH VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (604) 980-5814 OR (604) 988-4524
FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1437-RG4

Company: **COLUMBIA GOLD MINE**
Project: **SPECTRUM**
Attn: **W. ROBERTS**

Date: **SEP-15-90**
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

He hereby certify the following Geochemical Analysis of 30 ROCK samples submitted SEP-12-90 by J.J.HYLANDS.

Sample Number	AU-FIRE PPB	CU PPM
23408	580	314
23409	322	281
23410	4000	700
23411	1210	900
23412	2400	1650
23413	368	1550
23414	47	463
23415	53	700
23416	49	850
23417	64	600
23418	23	700
23419	76	800
23420	1800	960
23421	1675	550
23422	2750	560
23423	562	725
23424	8000	360
23425	122	122
23426	575	447
23427	48	93
23428	123	650
23429	206	675
23430	506	660
23431	84	192
23432	455	650
23433	195	180
23434	54	330
23435	79	256
23436	73	190
23437	69	199

Certified by _____

MIN-EN LABORATORIES

Assay Certificate

OV-1437-RA5

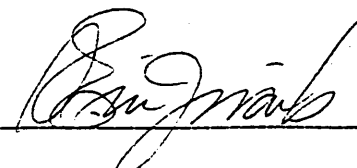
Company: COLUMBIA GOLD MINE
 Project: SPECTRUM
 Attn: W. ROBERTS

Date: SEP-20-90
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 15 ROCK samples submitted SEP-12-90 by J.J. HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
23438	.08	.002
23439	.12	.004
23440	.04	.001
23441	.28	.008
23442	.01	.001
23443	.08	.002
23444	.01	.001
23445	.08	.002
23446	.04	.001
23447	.04	.001
23448	.03	.001
23449	.04	.001
23450	.12	.004
23451	.01	.001
23452	.03	.001

Certified by _____



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 NORTH VANCOUVER, B.C. CANADA V7M 1T2
 TELEPHONE (604) 980-5814 OR (604) 988-4524
 FAX (604) 980-9621

THUNDER BAY LAB.:
 TELEPHONE (807) 622-8958
 FAX (807) 623-5931

SMITHERS LAB.:
 TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1437-RG5

Company: COLUMBIA GOLD MINE
 Project: SPECTRUM
 Attn: W. ROBERTS

Date: SEP-15-90

Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 15 ROCK samples submitted SEP-12-90 by J.J.HYLANDS.

Sample Number	AU-FIRE PPB	CU PPM
23438	79	495
23439	120	875
23440	41	178
23441	284	625
23442	3	643
23443	76	99
23444	12	385
23445	83	382
23446	36	221
23447	40	435
23448	31	198
23449	37	376
23450	123	318
23451	12	220
23452	26	347

Certified by _____

MIN-EN LABORATORIES

Assay Certificate

OV-1437-RA1

Company: COLUMBIA GOLD MINE
 Project: SPECTRUM
 Attn: W.ROBERTS

Date: SEP-15-90
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of ROCK samples.
 submitted SEP-12-90 by J.J.HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
23347	1.34	.039
23351	1.29	.038
23356	1.92	.056
23358	1.94	.057
23360	6.98	.204
23361	8.03	.234
23362	4.82	.141
23371	1.38	.040
23375	1.62	.047
23381	5.40	.158
23382	5.80	.169
23383	4.97	.145
23384	3.20	.093
23385	4.00	.117
23386	3.22	.094
23387	2.01	.059
23393	1.76	.051
23394	1.21	.035
23395	1.82	.053
23396	20.00	.583
23401	11.30	.330
23402	1.20	.035
23407	1.66	.048
23410	3.40	.099
23411	1.22	.036
23412	2.40	.070
23420	2.41	.070
23421	1.96	.057
23422	2.81	.082
23424	7.80	.228

Certified by *Bob Jones*
 MIN-EN LABORATORIES



Assay Certificate

OV-1437-RA4

Company: COLUMBIA GOLD MINE
 Project: SPECTRUM
 Attn: W.ROBERTS

Date: SEP-20-90
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 30 ROCK samples submitted SEP-12-90 by J.J.HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
23408 -	.58	.017
23409 -	.32	.009
23410 -	3.40	.099
23411 -	1.22	.036
23412 -	2.40	.070
23413	.37	.011
23414	.05	.001
23415	.05	.001
23416	.05	.001
23417	.06	.002
23418	.02	.001
23419	.08	.002
23420 -	2.41	.070
23421 -	1.96	.057
23422 -	2.81	.082
23423 ~	.56	.016
23424 -	7.80	.228
23425	.12	.004
23426	.58	.017
23427	.04	.001
23428	.12	.004
23429	.21	.006
23430	.56	.016
23431	.08	.002
23432	.44	.013
23433	.20	.006
23434	.05	.001
23435	.08	.002
23436	.07	.002
23437	.07	.002

Certified by

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Metallic Assay Certificate

OV-1437-RM1

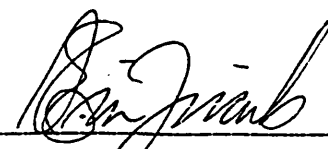
Company: **COLUMBIA GOLD MINES**
Project: **SPECTRUM**
Attn: **W. ROBERTS**

Date: **OCT-18-90**
Copy 1. **COLUMBIA GOLD, VANCOUVER, B.C.**

We hereby certify the following Metallic Assay of 24 METALLICS samples submitted OCT-16-90 by W. ROBERTS.

90-47

Sample Number	Total		Assay Value Au		Total Weight Au		Metallic Au		Net Au	
	Wt (g)	+120 M Wt (g)	+120(g/t)	-120(g/t)	+120(ag)	-120(ag)	(oz/ton)	(g/t)	(oz/ton)	(g/t)
23347	1613.60	43.60	1.91	1.16	0.083	1.821	0.002	0.05	0.034	1.18
23348	1890.16	45.16	.53	.55	0.024	1.015	0.000	0.01	0.016	0.55
23349	1930.38	35.38	.38	.42	0.013	0.796	0.000	0.01	0.012	0.42
23350	2080.55	35.55	.19	.41	0.007	0.838	0.000	0.00	0.012	0.41
23351	1502.00	27.00	1.16	1.27	0.031	1.873	0.001	0.02	0.037	1.27
23352	2285.51	40.51	.92	1.08	0.037	2.425	0.000	0.02	0.031	1.08
23353	2062.54	42.54	.42	.39	0.018	0.788	0.000	0.01	0.011	0.39
23354	1938.84	68.84	.21	.18	0.014	0.337	0.000	0.01	0.005	0.18
23355	2015.48	20.48	.37	.17	0.008	0.339	0.000	0.00	0.005	0.17
23356	1872.56	52.56	29.62	1.40	1.557	2.548	0.024	0.83	0.064	2.19
23357	1880.11	35.11	.31	.31	0.011	0.572	0.000	0.01	0.009	0.31
23358	1866.46	46.46	4.58	1.59	0.213	2.894	0.003	0.11	0.049	1.66
23359	1239.13	19.13	2.15	.46	0.041	0.561	0.001	0.03	0.014	0.49
23360	732.30	12.30	46.83	7.92	0.576	5.702	0.023	0.79	0.250	8.57
23361	2209.05	64.05	51.52	5.10	3.300	10.939	0.044	1.49	0.188	6.45
23362	1826.74	31.74	76.56	4.28	2.430	7.683	0.039	1.33	0.161	5.54
23381	1730.21	60.21	4.08	4.20	0.246	7.014	0.004	0.14	0.122	4.20
23382	2165.96	45.96	5.55	5.73	0.255	12.148	0.003	0.12	0.167	5.73
23383	2110.30	65.30	6.39	5.16	0.417	10.552	0.006	0.20	0.152	5.20
23384	2385.91	15.91	15.16	2.77	0.241	6.565	0.003	0.10	0.083	2.85
23385	2287.69	17.69	14.30	4.02	0.253	9.125	0.003	0.11	0.120	4.10
23386	2245.92	25.92	4.63	2.63	0.120	5.839	0.002	0.05	0.077	2.65
23387	2379.36	34.36	4.33	2.52	0.149	5.909	0.002	0.06	0.074	2.55
23388	1365.07	20.07	.27	.28	0.005	0.377	0.000	0.00	0.008	0.28

Certified by 



Metallic Assay Certificate

OV-1437-RM2

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W. ROBERTS

Date: OCT-18-90
Copy 1. COLUMBIA GOLD, VANCOUVER, B.C.

We hereby certify the following Metallic Assay of 21 METALLICS samples submitted OCT-16-90 by W. ROBERTS.

90-47

Sample Number	Total		Assay Value Au		Total Weight Au		Metallic Au		Net Au	
	Wt (g)	+120 M Wt (g)	+120(g/t)	-120(g/t)	+120(ag)	-120(ag)	(oz/ton)	(g/t)	(oz/ton)	(g/t)
23389	1586.25	6.25	.29	.50	0.002	0.790	0.000	0.00	0.015	0.50
23390	1510.42	35.42	.61	.88	0.022	1.298	0.000	0.01	0.025	0.87
23391	1337.00	32.00	.53	.53	0.017	0.692	0.000	0.01	0.015	0.53
23392	849.30	49.30	.15	.21	0.007	0.168	0.000	0.01	0.006	0.21
23393	2037.52	37.52	1.70	1.64	0.064	3.280	0.001	0.03	0.048	1.64
23394	2711.71	61.71	1.33	1.15	0.082	3.047	0.001	0.03	0.034	1.15
23395	409.75	9.75	45.85	1.96	0.447	0.784	0.032	1.09	0.088	3.00
23396	1804.32	29.32	209.75	12.57	6.150	22.312	0.999	3.41	0.460	15.77
23401	1951.23	51.23	17.81	9.55	0.912	18.145	0.014	0.47	0.285	9.77
23402	2583.93	8.93	4.94	1.18	0.044	3.038	0.000	0.02	0.035	1.19
23407	1332.62	7.62	2.09	1.30	0.016	1.722	0.000	0.01	0.038	1.30
23408	2153.85	3.85	1.71	.96	0.007	2.064	0.000	0.00	0.028	0.96
23409	2057.14	7.14	.80	.41	0.006	0.840	0.000	0.00	0.012	0.41
23410	1883.67	8.67	.97	1.25	0.008	2.344	0.000	0.00	0.036	1.25
23411	1566.68	16.68	2.95	3.94	0.049	6.107	0.001	0.03	0.115	3.93
23412	2276.55	26.55	2.18	2.53	0.058	5.692	0.001	0.03	0.074	2.53
23420	2411.82	11.82	13.50	2.32	0.160	5.568	0.002	0.07	0.069	2.37
23421	2298.70	13.70	6.00	1.19	0.082	2.707	0.001	0.04	0.036	1.22
23422	1633.63	8.63	4.90	3.12	0.042	5.070	0.001	0.03	0.091	3.13
23423	2250.90	40.90	2.02	.74	0.083	1.635	0.001	0.04	0.022	0.76
23424	2194.96	19.96	70.49	6.34	1.407	13.789	0.019	0.64	0.202	6.92

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Geochemical Analysis Certificate

OV-1439-RG1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W.ROBERTS

Date: SEP-15-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 14 ROCK samples submitted SEP-12-90 by J.J.HYLANDS.

Sample Number	AU-FIRE PPB	CU PPM
23453	686	2770
23454	650	2720
23455	340	1820
23456	160	1080
23457	140	1180
23458	228	1260
23459	65	900
23460	103	1040
23461	276	1000
23462	448	720
23463	220	1110
23464	426	1000
23465	260	1520
23466	42	760

90-48

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Assay Certificate

OV-1469-RA1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W. J. ROBERTS

Date: SEP-19-90
Copy 1: COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 24 ROCK samples submitted SEP-17-90 by J.J.HYLANDS.

90-49

Sample Number	AU g/tonne	AU oz/ton
23467	.01	.001
23468	.01	.001
23469	.01	.001
23470	.02	.001
23471	.16	.005
23472	.01	.001
23473	.04	.001
23474	.02	.001
23475	.01	.001
23476	.02	.001
23477	.03	.001
23478	.01	.001
23479	.23	.007
23480	.01	.001
23481	.01	.001
23482	.20	.006
23483	.01	.001
23484	.01	.001
23485	.03	.001
23486	.61	.018
23487	.26	.008
23488	.18	.005
23489	.10	.003
23490	.02	.001

Certified by *[Signature]*



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Assay Certificate

OV-1469-RA2

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W.J. ROBERTS

Date: SEP-19-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 24 ROCK samples submitted SEP-17-90 by J.J. HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
23491	.03	.001
23492	.02	.001
23493	.10	.003
23494	.07	.002
23495	.34	.010
23496	.28	.008
23497	.08	.002
23498	.17	.005
23499	.05	.001
23500	.04	.001
23501	.03	.001
23502	.05	.001
23503	.06	.002
23504	.02	.001
23505	.01	.001
23506	.01	.001
23507	.01	.001
23508	.01	.001
23509	.06	.002
23510	.01	.001
23511	.02	.001
23512	.01	.001
23513	.01	.001
23514	.02	.001

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Assay Certificate

OV-1469-RA3

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W.J. ROBERTS

Date: SEP-18-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 24 ROCK samples submitted SEP-17-90 by J.J. HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
23515	.05	.001
23516	.02	.001
23517	.04	.001
23518	.04	.001
23519	.05	.001
23520	.01	.001
23521	.02	.001
23522	.01	.001
23523	.03	.001
23524	.01	.001
23525	.02	.001
23526	.01	.001
23527	.01	.001
23528	.02	.001
23529	.03	.001
23530	.01	.001
23531	.02	.001
23532	.01	.001
23533	.01	.001
23534	.01	.001
23535	.02	.001
23536	.01	.001
23537	.05	.001
23538	.02	.001

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Assay Certificate

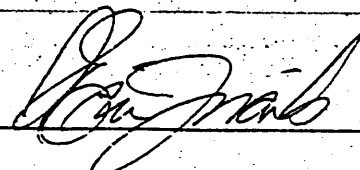
OV-1469-RA4

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W.J. ROBERTS

Date: SEP-18-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 5 ROCK samples
submitted SEP-17-90 by J.J. HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
23539	.01	.001
23540	.01	.001
23541	.13	.004
23542	.01	.001
23543	.01	.001

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Geochemical Analysis Certificate

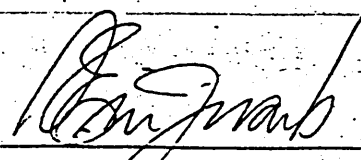
OV-1469-RG1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W.J. ROBERTS

Date: SEP-18-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 ROCK samples submitted SEP-17-90 by J.J. HYLANDS.

Sample Number	CU PPM
23467	122
23468	210
23469	263
23470	339
23471	910
23472	575
23473	685
23474	515
23475	404
23476	427
23477	402
23478	304
23479	302
23480	199
23481	308
23482	790
23483	522
23484	388
23485	381
23486	700
23487	770
23488	600
23489	725
23490	440
23491	545
23492	395
23493	400
23494	142
23495	275
23496	380

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Geochemical Analysis Certificate

OV-1469-RG2

Company: **COLUMBIA GOLD MINES**
Project: **SPECTRUM**
Attn: **W. J. ROBERTS**

Date: **SEP-18-90**
Copy 1. **COLUMBIA GOLD MINES, VANCOUVER, B.C.**

We hereby certify the following Geochemical Analysis of 30 ROCK samples submitted SEP-17-90 by J.J.HYLANDS.

Sample Number	CU PPM
23497	365
23498	640
23499	410
23500	555
23501	235
23502	650
23503	430
23504	320
23505	97
23506	159
23507	56
23508	103
23509	85
23510	57
23511	88
23512	101
23513	215
23514	160
23515	225
23516	124
23517	133
23518	615
23519	285
23520	116
23521	123
23522	79
23523	42
23524	26
23525	535
23526	276

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SMITHERS LAB.:
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Geochemical Analysis Certificate

OV-1469-RG3

Company: **COLUMBIA GOLD MINES**
Project: **SPECTRUM**
Attn: **W. J. ROBERTS**

Date: **SEP-19-90**
Copy 1. **COLUMBIA GOLD MINES, VANCOUVER, B.C.**

We hereby certify the following Geochemical Analysis of 17 ROCK samples submitted SEP-17-90 by J.J.HYLANDS.

Sample Number	CU PPM
23527	50
23528	85
23529	301
23530	30
23531	136
23532	27
23533	209
23534	40
23535	20
23536	69
23537	18
23538	21
23539	10
23540	10
23541	53
23542	41
23543	70

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SMITHERS LAB.:
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Assay Certificate

0V-1470-RA1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W. J. ROBERTS

Date: SEP-19-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 24 ROCK samples
submitted SEP-17-90 by J.J. HYLANDS.

90-50

Sample Number	AU g/tonne	AU oz/ton
23544	1.14	.033
23545	.33	.010
23546	.02	.001
23547	.28	.008
23548	.16	.005
23549	.06	.002
23550	.21	.006
23551	.86	.025
23552	.72	.021
23553	.82	.024
23554	.44	.013
23555	.84	.025
23556	.25	.007
23557	1.46	.043
23558	.62	.018
23559	.20	.006
23560	.18	.005
23561	.40	.012
23562	.55	.016
23563	.35	.010
23564	.15	.004
23565	1.00	.029
23566	.28	.008
23567	.21	.006

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SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Assay Certificate

OV-1470-RA2

Company: **COLUMBIA GOLD MINES**
Project: **SPECTRUM**
Attn: **W. J. ROBERTS**

Date: **SEP-19-90**
Copy 1. **COLUMBIA GOLD MINES, VANCOUVER, B.C.**

We hereby certify the following Assay of 24 ROCK samples submitted SEP-17-90 by J.J.HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
23568	.20	.006
23569	.68	.020
23570 -	1.94	.057
23571 -	.84	.025
23572 -	2.82	.082
23573	.34	.010
23574	.22	.006
23575	.94	.027
23576	.76	.022
23577	.60	.018
23578	.63	.018
23579	.50	.015
23580	.38	.011
23581	.16	.005
23582	.21	.006
23583	.18	.005
23584	.06	.002
23585	.09	.003
23586	.10	.003
23587	.02	.001
23588	.07	.002
23589	.02	.001
23590	.01	.001
23591	.03	.001

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Assay Certificate


OV-1470-RA3

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W. J. ROBERTS

Date: SEP-19-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 21 ROCK samples submitted SEP-17-90 by J.J.HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
23592	.18	.005
23593	.10	.003
23594	.04	.001
23595	.17	.005
23596	.02	.001
23597	.20	.006
23598	.04	.001
23599	.32	.011
23600	.22	.006
23601	.08	.002
23602	.02	.001
23603	.40	.012
23604	.20	.006
23605	.07	.002
23606	.11	.003
23607	.02	.001
23608	.01	.001
23609	.01	.001
23610	.01	.001
23611	.07	.002
23612	.02	.001

Certified by 



Geochemical Analysis Certificate

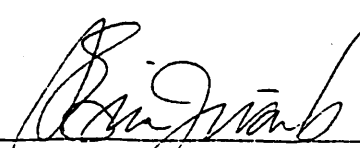
OV-1470-RG1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W. J. ROBERTS

Date: SEP-19-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 ROCK samples submitted SEP-17-90 by J.J.HYLANDS.

Sample Number	CU PPM
23544	1340
23545	330
23546	301
23547	341
23548	819
23549	222
23550	725
23551	1150
23552	1190
23553	1020
23554	1510
23555	1660
23556	1620
23557	1570
23558	970
23559	490
23560	591
23561	605
23562	960
23563	460
23564	440
23565	470
23566	389
23567	445
23568	230
23569	321
23570	251
23571	215
23572	35?
23573	240

Certified by 
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Geochemical Analysis Certificate

OV-1470-RG2

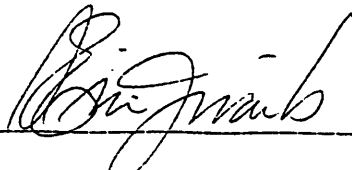
Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W.J. ROBERTS

Date: SEP-19-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 ROCK samples submitted SEP-17-90 by J.J. HYLANDS.

Sample Number	CU PPM
23574	400
23575	460
23576	755
23577	430
23578	301
23579	190
23580	301
23581	442
23582	660
23583	219
23584	80
23585	90
23586	100
23587	86
23588	81
23589	22
23590	50
23591	90
23592	80
23593	22
23594	70
23595	101
23596	75
23597	189
23598	69
23599	92
23600	50
23601	70
23602	147
23603	570

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 FAX (604) 980-9621

THUNDER BAY LAB.:
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 FAX (807) 623-5931

SMITHERS LAB.:
 TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

0V-1470-RG3

Company: COLUMBIA GOLD MINES
 Project: SPECTRUM
 Attn: W.J.ROBERTS

Date: SEP-19-90
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

He hereby certify the following Geochemical Analysis of 9 ROCK samples submitted SEP-17-90 by J.J.HYLANDS.

Sample Number	CU PPM
23604	390
23605	151
23606	10
23607	52
23608	22
23609	10
23610	15
23611	111
23612	84

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FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Metallic Assay Certificate

OV-1470-RM1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W. ROBERTS

Date: OCT-16-90

Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Metallic Assay of 3 METALLIC samples submitted OCT-08-90 by J.J. HYLANDS.

90-50

Sample Number	Total Wt (g)	+120 M Wt (g)	Assay Value Au		Total Weight Au		Metallic Au		Net Au	
			+120(g/t)	-120(g/t)	+120(mg)	-120(mg)	(oz/ton)	(g/t)	(oz/ton)	(g/t)
23570	1891.94	31.94	14.09	1.96	0.450	3.646	0.007	0.24	0.063	2.16
23571	2012.79	32.79	4.37	.74	0.143	1.465	0.002	0.07	0.023	0.90
23572	2396.37	16.37	12.37	3.30	0.202	7.854	0.002	0.09	0.098	3.36

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Assay Certificate

OV-1468-RA1

Company: **COLUMBIA GOLD MINES**
Project: **SPECTRUM**
Attn: **W. J. ROBERTS**

Date: **SEP-18-90**
Copy 1. **COLUMBIA GOLD MINES, VANCOUVER, B.C.**

We hereby certify the following Assay of 24 ROCK samples submitted SEP-17-90 by W. ROBERTS.

90-51

Sample Number	AU g/tonne	AU oz/ton
23613	.04	.001
23614	.19	.006
23615	.22	.006
23616	.25	.007
23617	.16	.005
23618	.03	.001
23619	.52	.018
23620	.41	.012
23621	.01	.001
23622	.02	.001
23623	.23	.007
23624	.18	.005
23625	.56	.016
23626	.82	.024
23627	.42	.012
23628	.80	.023
23629	.96	.028
23630	.34	.010
23631	.18	.005
23632	.22	.006
23633	.32	.009
23634	.40	.012
23635	.22	.006
23636	.35	.010

Certified by _____

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Assay Certificate

0V-1468-RA2

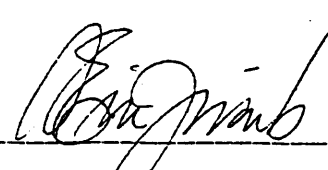
Company: COLUMBIA GOLD MINES
 Project: SPECTRUM
 Attn: W. J. ROBERTS

Date: SEP-19-90
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 24 ROCK samples submitted SEP-17-90 by W. ROBERTS.

Sample Number	AU g/tonne	AU oz/ton
23637	.30	.009
23638	.58	.017
23639	.22	.006
23640	.04	.001
23641	.02	.001
23642	1.04	.030
23643	1.33	.039
23644	1.43	.042
23645	.82	.024
23646	.39	.011
23647	.16	.005
23648	.01	.001
23649	.94	.027
23650	.40	.012
23651	.03	.001
23652	.11	.003
23653	.15	.004
23654	.62	.018
23655	.20	.006
23656	.01	.001
23657	.73	.021
23658	1.02	.030
23659	.44	.013
23660	.30	.009

Certified by _____



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Assay Certificate

OV-1468-RA3

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W. J. ROBERTS

Date: SEP-19-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 24 ROCK samples submitted SEP-17-90 by W. ROBERTS.

Sample Number	AU g/tonne	AU oz/ton
23661	.36	.011
23662	.21	.006
23663	.32	.009
23664	.20	.006
23665	.61	.018
23666	.51	.015
23667	.24	.007
23668	1.05	.031
23669	1.01	.029
23670	.03	.001
23671	.01	.001
23672	.02	.001
23673	.41	.012
23674	.12	.004
23675	.62	.018
23676	.60	.018
23677	.21	.006
23678	.10	.003
23679	.20	.006
23680	.01	.001
23681	.04	.001
23682	.02	.001
23683	.01	.001
23684	.25	.007

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FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Assay Certificate

0V-1468-RA4

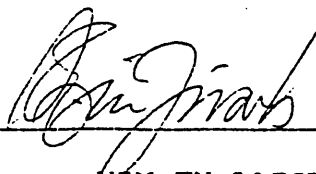
Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W.J.ROBERTS

Date: SEP-18-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 5 ROCK samples
submitted SEP-17-90 by W.ROBERTS.

Sample Number	AU g/tonne	AU oz/ton
23685	.86	.025
23686	.22	.006
23687	.42	.012
23688	.65	.019
23689	.53	.015

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Geochemical Analysis Certificate

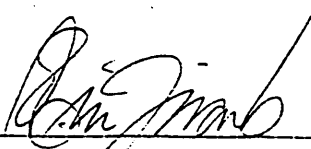
OV-1468-RG1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W. J. ROBERTS

Date: SEP-18-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 ROCK samples submitted SEP-17-90 by W. ROBERTS.

Sample Number	CU PPM
23613	30
23614	47
23615	34
23616	30
23617	50
23618	90
23619	49
23620	34
23621	26
23622	19
23623	35
23624	49
23625	71
23626	111
23627	70
23628	118
23629	82
23630	62
23631	112
23632	34
23633	33
23634	46
23635	53
23636	50
23637	80
23638	68
23639	84
23640	71
23641	166
23642	98

Certified by 

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Geochemical Analysis Certificate

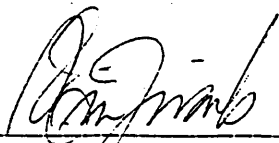
OV-1468-RG2

Company: COLUMBIA GOLD MINES
 Project: SPECTRUM
 Attn: W. J. ROBERTS

Date: SEP-18-90
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 ROCK samples submitted SEP-17-90 by W. ROBERTS.

Sample Number	CU PPM
23643	113
23644	127
23645	82
23646	50
23647	76
23648	115
23649	297
23650	625
23651	216
23652	224
23653	227
23654	250
23655	124
23656	129
23657	281
23658	226
23659	191
23660	135
23661	192
23662	200
23663	138
23664	180
23665	183
23666	147
23667	167
23668	190
23669	200
23670	103
23671	50
23672	127

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 FAX (807) 623-5931

SMITHERS LAB.:
 TELEPHONE/FAX (604) 847-3004

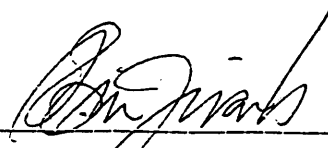
Geochemical Analysis Certificate OV-1468-RG3

Company: COLUMBIA GOLD MINES
 Project: SPECTRUM
 Attn: W. J. ROBERTS

Date: SEP-18-90
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

He hereby certify the following Geochemical Analysis of 17 ROCK samples submitted SEP-17-90 by W. ROBERTS.

Sample Number	CU PPM
23673	120
23674	94
23675	80
23676	76
23677	61
23678	47
23679	77
23680	68
23681	72
23682	74
23683	104
23684	60
23685	34
23686	160
23687	200
23688	147
23689	190

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THUNDER BAY LAB.:
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FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Metallic Assay Certificate

OV-1468-RM1

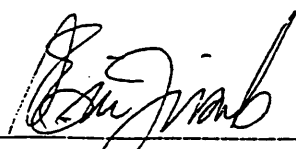
Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W. J. ROBERTS

Date: OCT-17-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Metallic Assay of 5 METALLIC samples submitted OCT-08-90 by COLUMBIA GOLD.

90-51

Sample Number	* Total *		* +120 M *		* Assay Value Au *		* Total Weight Au *		* Metallic Au *		* Net Au *	
	Wt (g)	Wt (g)	+120(g/t)	-120(g/t)	+120(mg)	-120(mg)	(oz/ton)	(g/t)	(oz/ton)	(g/t)		
23642	1372.16	57.16	1.40	.52	0.080	0.384	0.002	0.06	0.016	0.56		
23643	1936.92	76.92	1.34	1.46	0.103	2.716	0.002	0.05	0.042	1.46		
23644	1186.07	51.07	.82	1.19	0.042	1.351	0.001	0.04	0.034	1.17		
23668	1872.83	62.83	3.76	.90	0.236	1.629	0.004	0.13	0.029	1.00		
23669	1856.88	46.88	1.93	1.00	0.090	1.810	0.001	0.05	0.030	1.02		

Certified by 

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SEP 26 1990

THUNDER BAY LAB.:
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FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

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Assay Certificate

OV-1501-RA1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W. ROBERTS

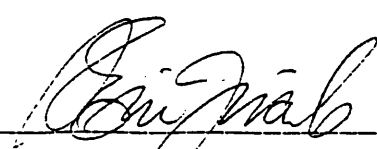
Date: SEP-23-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 24 ROCK samples
submitted SEP-21-90 by W. ROBERTS.

90-52

Sample Number	AU g/tonne	AU oz/ton
23690	.30	.009
23691	.40	.012
23692	.74	.022
23693	.62	.018
23694	.40	.012
23695	.42	.012
23696	.56	.016
23697	.21	.006
23698	.40	.012
23699	.61	.024
23700	.41	.012
23701	.60	.018
23702	.41	.012
23703	.20	.006
23704	.19	.006
23705	.23	.007
23706	.20	.006
23707	.24	.007
23708	.05	.001
23709	.06	.002
23710	.21	.006
23711	.26	.008
23712	.32	.009
23713	.95	.028

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Assay Certificate

OV-1501-RA2

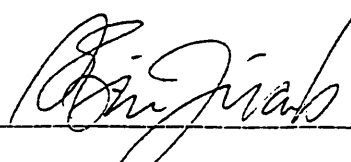
Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W. ROBERTS

Date: SEP-23-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

He hereby certify the following Assay of 24 ROCK samples submitted SEP-21-90 by W. ROBERTS.

Sample Number	AU g/tonne	AU oz/ton
23714	.39	.011
23715	.36	.011
23716	.41	.012
23717	.52	.015
23718	.20	.006
23719	.19	.006
23720	.27	.008
23721	.34	.010
23722	.40	.012
23723	1.04	.030
23724	.51	.015
23725	.20	.006
23726	.18	.005
23727	.21	.006
23728	.22	.006
23729	.20	.006
23730	.37	.011
23731	.20	.006
23732	.21	.006
23733	.20	.006
23734	.22	.006
23735	.05	.001
23736	.21	.006
23737	.24	.007

Certified by _____



MIN-EN LABORATORIES

Assay Certificate

OV-1501-RA3

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W.ROBERTS

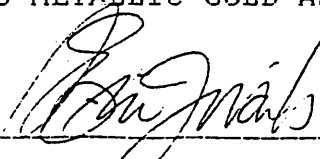
Date: SEP-23-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

He hereby certify the following Assay of 24 ROCK samples submitted SEP-21-90 by W.ROBERTS.

Sample Number	AU g/tonne	AU oz/ton
23738	.21	.006
23739	.20	.006
23740	.25	.007
23741	*.67	.020
23742	.10	.003
23743	.05	.001
23744	.22	.006
23745	*1.51	.038
23746	.20	.006
23747	.10	.003
23748	.08	.002
23749	.04	.001
23750	1.01	.029
23751	.01	.001
23752	.21	.006
23753	.22	.006
23754	.58	.017
23755	1.06	.031
23756	.17	.005
23757	.58	.017
23758	.09	.003
23759	.10	.003
23760	.01	.001
23761	*.87	.025

*SAMPLES MAY CONTAIN METALLIC GOLD, RECOMMEND METALLIC GOLD ASSAY.

Certified by



MIN-EN LABORATORIES

Assay Certificate

OV-1501-RA4

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W. ROBERTS

Date: SEP-23-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 24 ROCK samples
submitted SEP-21-90 by W. ROBERTS.

90-52

Sample Number	AU g/tonne	AU oz/ton
23762	.02	.001
23763	.07	.002
23764	.19	.006
23765	.85	.025
23766	2.38	.069
23767	4.75	.139
23768	2.10	.061
23769	.01	.001
23770	.02	.001
23771	.01	.001
23772	.02	.001
23773	.01	.001
23774	.01	.001
23775	.01	.001
23776	.01	.001
23777	.05	.001
23778	.02	.001
23779	.02	.001
23780	.04	.001
23781	.02	.001
23782	.01	.001
23783	.01	.001
23784	.57	.017
23785	.36	.011

90-55

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THUNDER BAY LAB.:
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SMITHERS LAB.:
 TELEPHONE/FAX (604) 847-3004

Assay Certificate

OV-1501-RA5

Company: COLUMBIA GOLD MINES
 Project: SPECTRUM
 Attn: W.ROBERTS

Date: SEP-23-90
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of ROCK samples
 submitted SEP-21-90 by W.ROBERTS.

90-53

Sample Number	AU g/tonne	AU oz/ton
23786	1.14	.033
23787	.71	.021
23788	.39	.011
23789	.25	.007
23790	.42	.012
23791	.50	.015
23792	.41	.012
23793	.22	.006
23794	.44	.013
23795	.55	.016

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THUNDER BAY LAB.:
 TELEPHONE (807) 622-8958
 FAX (807) 623-5931

SMITHERS LAB.:
 TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate OV-1501-RG1

Company: COLUMBIA GOLD MINES
 Project: SPECTRUM
 Attn: W.ROBERTS

Date: SEP-23-90
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 24 ROCK samples submitted SEP-21-90 by W.ROBERTS.

Sample Number	CU PPM
23690	1260
23691	1780
23692	1050
23693	1220
23694	2730
23695	1510
23696	2430
23697	1320
23698	1200
23699	1650
23700	1110
23701	1660
23702	1120
23703	825
23704	535
23705	785
23706	800
23707	990
23708	835
23709	1100
23710	1190
23711	1440
23712	3070
23713	3200

Certified by *[Signature]*

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TELEPHONE (604) 980-5814 OR (604) 988-4524
FAX (604) 980-9621

THUNDER BAY LAB.:
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FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1501-RG2

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W. ROBERTS

Date: SEP-23-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 24 ROCK samples submitted SEP-21-90 by W.ROBERTS.

Sample Number	CU PPM
23714	2210
23715	2170
23716	2340
23717	505
23718	750
23719	900
23720	1710
23721	1000
23722	1800
23723	7400
23724	4420
23725	2210
23726	1790
23727	2410
23728	2140
23729	2290
23730	2280
23731	2310
23732	1720
23733	1960
23734	1300
23735	1120
23736	1560
23737	1150

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Geochemical Analysis Certificate

0V-1501-RG3


Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W. ROBERTS

Date: SEP-23-90

Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 24 ROCK samples submitted SEP-21-90 by W. ROBERTS.

Sample Number	CU PPM
23738	1610
23739	1110
23740	1200
23741	1310
23742	1560
23743	1300
23744	920
23745	1000
23746	1280
23747	1200
23748	1840
23749	1000
23750	955
23751	625
23752	1370
23753	1000
23754	1470
23755	885
23756	665
23757	910
23758	970
23759	1120
23760	429
23761	598

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Geochemical Analysis Certificate

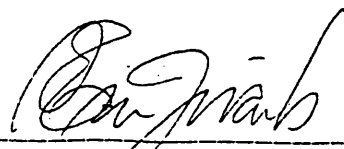
0V-1501-RG4

Company: COLUMBIA GOLD MINES
 Project: SPECTRUM
 Attn: W. ROBERTS

Date: SEP-23-90
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 24 ROCK samples submitted SEP-21-90 by W. ROBERTS.

Sample Number	CU PPM
23762	970
23763	675
23764	628
23765	800
23766	1060
23767	820
23768	669
23769	750
23770	740
23771	201
23772	388
23773	222
23774	167
23775	107
23776	99
23777	176
23778	148
23779	170
23780	201
23781	112
23782	36
23783	138
23784	1320
23785	3620

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SMITHERS LAB.:
 TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

0V-1501-RG5

Company: COLUMBIA GOLD MINES
 Project: SPECTRUM
 Attn: W.ROBERTS

Date: SEP-23-90
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 10 samples submitted SEP-21-90 by W.ROBERTS.

Sample Number	CU PPM
23786	2890
23787	4420
23788	4230
23789	2680
23790	2400
23791	3200
23792	1520
23793	1230
23794	2150
23795	2100

Certified by *[Signature]*
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SMITHERS LAB.:
 TELEPHONE/FAX (604) 847-3004

Metallc Assay Certificate

OV-1501-RM1

Company: COLUMBIA GOLD MINES
 Project: SPECTRUM
 Attn: W. ROBERTS

Date: OCT-17-90
 Copy 1. COLUMBIA GOLD, VANCOUVER, B.C.

We hereby certify the following Metallc Assay of 7 METALLIC samples submitted OCT-08-90 by COLUMBIA GOLD.

90-52

Sample Number	Total		Assay Value Au		Total Weight Au		Metallic Au		Net Au	
	Wt (g)	+120 M Wt (g)	+120(g/t)	-120(g/t)	+120(ag)	-120(ag)	(oz/ton)	(g/t)	(oz/ton)	(g/t)
23741	2335.88	115.38	2.77	.25	0.321	0.555	0.004	0.14	0.011	0.38
23745	2079.89	59.89	64.23	1.17	3.947	2.363	0.054	1.85	0.087	2.99
23750	2079.99	107.99	2.95	.42	0.319	0.829	0.004	0.15	0.016	0.55
23761	1394.96	49.96	2.39	.44	0.119	0.592	0.002	0.09	0.015	0.51
23766	1943.49	63.49	21.02	2.60	1.335	4.888	0.020	0.69	0.093	3.20
23767	1936.12	66.12	6.31	3.38	0.417	6.321	0.006	0.22	0.102	3.48
23768	1216.93	21.93	30.15	4.11	0.661	4.911	0.016	0.54	0.134	4.58

Certified by *[Signature]*

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FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1501-RG5

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W. ROBERTS

Date: SEP-23-90

Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 10 samples submitted SEP-21-90 by W. ROBERTS.

Sample Number	CU PPM	
23786	2890	90-53
23787	4420	
23788	4230	
23789	2680	
23790	2400	
23791	2200	
23792	1520	
23793	1230	
23794	2130	
23795	2100	
23784	1320	
23785	3620	

Certified by

[Handwritten Signature]

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 FAX (807) 623-5931
 SMITHERS LAB.:
 TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate OV-1501-RG5

Company: COLUMBIA GOLD MINES Date: SEP-23-90
 Project: SPECTRUM Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.
 Attn: W. ROBERTS

We hereby certify the following Geochemical Analysis of 10 samples submitted SEP-21-90 by W. ROBERTS.

Sample Number	CU PPM	
23786	2890	90-53
23787	4420	
23788	4230	
23789	2680	
23790	2400	
23791	2200	
23792	1520	
23793	1230	
23794	2130	
23795	2100	
23784	1320	
23785	3620	

Certified by *[Signature]*
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FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

OCT 09 1990

Assay Certificate

OV-1544-RA1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W.J. ROBERTS

Date: OCT-03-90

Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 24 ROCK samples
submitted OCT-01-90 by J.J. HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
23796	.06	.002
23797	.18	.005
23798	.05	.001
23799	.01	.001
23800	.02	.001
23801	.02	.001
23802	.01	.001
23803	.01	.001
23804	.02	.001
23805	.01	.001
23806	.01	.001
23807	.03	.001
23808	.01	.001
23809	.02	.001
23810	.01	.001
23811	.03	.001
23812	.01	.001
23813	.01	.001
23814	.01	.001
23815	.02	.001
23816	.02	.001
23817	.01	.001
23818	.01	.001
23819	.01	.001

90-54

Certified by *[Signature]*

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TELEPHONE/FAX (604) 847-3004

OCT 09 1990

Assay Certificate

OV-1544-RA2

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W.J.ROBERTS

Date: OCT-03-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 24 ROCK samples
submitted OCT-01-90 by J.J.HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
23820	.03	.001
23821	.02	.001
23822	.01	.001
23823	.01	.001
23824	.01	.001
23825	.02	.001
23826	.02	.001
23827	.01	.001
23828	.01	.001
23829	.01	.001
23830	.01	.001
23831	.01	.001
23832	.01	.001
23833	.02	.001
23834	.01	.001
23835	.02	.001
23836	.01	.001
23837	.01	.001
23838	.02	.001
23839	.01	.001
23840	.02	.001
23841	.01	.001
23842	.04	.001
23843	.02	.001

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FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

OCT 09 1990

Assay Certificate

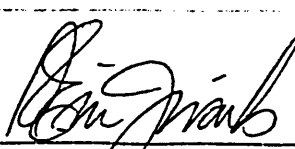
OV-1544-RA3

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W.J. ROBERTS

Date: OCT-03-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 24 ROCK samples
submitted OCT-01-90 by J.J. HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
23844	.02	.001
23845	.01	.001
23846	.01	.001
23847	.14	.004
23848	.02	.001
23849	.01	.001
23850	.02	.001
23851	.02	.001
23852	.01	.001
23853	.01	.001
23854	.02	.001
23855	.02	.001
23856	.02	.001
23857	.01	.001
23858	.01	.001
23859	.01	.001
23860	.01	.001
23861	.03	.001
23862	.01	.001
23863	.02	.001
23864	.01	.001
23865	.01	.001
23866	.01	.001
23867	.09	.003

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SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

OCT 09 1990

Assay Certificate

OV-1544-RA4

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W.J.ROBERTS

Date: OCT-03-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 9 ROCK samples submitted OCT-01-90 by J.J.HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
23868	.01	.001
23869	.01	.001
23870	.80	.023
23871	.24	.007
23872	.44	.013
23873	.14	.004
23874	.02	.001
23875	.01	.001
23876	.02	.001

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Geochemical Analysis Certificate

OV-1544-RG1

Company: COLUMBIA GOLD
Project: SPECTRUM
Attn: W.J. ROBERTS

Date: OCT-03-90

Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 24 ROCK samples submitted SEP-16-90 by J.J. HYLANDS.

Sample Number	CU PPM
23796	535
23797	456
23798	464
23799	210
23800	312
23801	337
23802	264
23803	157
23804	155
23805	85
23806	14
23807	257
23808	305
23809	407
23810	374
23811	341
23812	273
23813	311
23814	263
23815	282
23816	324
23817	359
23818	263
23819	265

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SMITHERS LAB.:
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OCT 09 1990

Geochemical Analysis Certificate

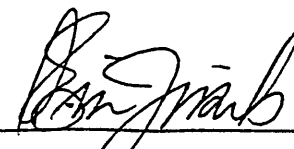
OV-1544-RG2

Company: **COLUMBIA GOLD MINES**
 Project: **SPECTRUM**
 Attn: **WAYNE ROBERTS**

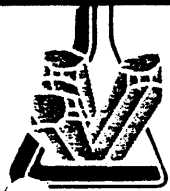
Date: **OCT-03-90**
 Copy 1. **COLUMBIA GOLD MINES, VANCOUVER, B.C.**

We hereby certify the following Geochemical Analysis of 24 ROCK samples submitted OCT-01-90 by J.J.HYLANDS.

Sample Number	CU PPM
23820	251
23821	240
23822	161
23823	173
23824	154
23825	197
23826	219
23827	263
23828	238
23829	171
23830	163
23831	192
23832	207
23833	184
23834	55
23835	108
23836	176
23837	273
23838	180
23839	244
23840	111
23841	176
23842	591
23843	186

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SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

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Geochemical Analysis Certificate

OV-1544-RG3

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

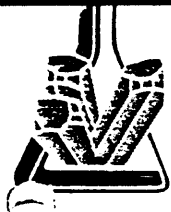
Date: OCT-03-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 24 ROCK samples submitted OCT-01-90 by J.J.HYLANDS.

Sample Number	CU PPM
23844	157
23845	75
23846	161
23847	267
23848	92
23849	103
23850	185
23851	244
23852	248
23853	226
23854	170
23855	125
23856	404
23857	373
23858	224
23859	348
23860	238
23861	253
23862	304
23863	373
23864	154
23865	260
23866	318
23867	580

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 FAX (604) 980-9621

THUNDER BAY LAB:
 TELEPHONE (807) 622-8948
 FAX (807) 623-5931

SMITHERS LAB.:
 TELEPHONE/FAX (604) 847-3004

OCT 09 1990

Geochemical Analysis Certificate

OV-1544-RG4

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: OCT-03-90
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 9 ROCK samples submitted OCT-01-90 by J.J.HYLANDS.

Sample Number	CU PPM
23868	179
23869	61
23870	73
23871	203
23872	183
23873	80
23874	54
23875	51
23876	40

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SMITHERS LAB.:
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OCT 09 1990

Assay Certificate

OV-1546-RA1

Company: COLUMBIA GOLD MINES
 Project: SPECTRUM
 Attn: W.J. ROBERTS

Date: OCT-03-90
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 24 ROCK samples submitted OCT-01-90 by J.J. HYLANDS.

Sample Number	AU g/tonne	AU oz/ton	90-55
23877	.01	.001	
23878	.30	.009	
23879	.10	.003	
23880	.04	.001	
23881	.03	.001	
23882	.07	.002	
23883	5.90	.172	
23884	.20	.006	
23885	.10	.003	
23886	*2.97	.087	
23887	*5.20	.152	
23888	.16	.005	
23889	.24	.007	
23890	.15	.004	
23891	.01	.001	
23892	.02	.001	
23893	.03	.001	
23894	.01	.001	
23895	.02	.001	
23896	.01	.001	
23897	.10	.003	
23898	.01	.001	
23899	.05	.001	
23900	.01	.001	

* SAMPLE CONTAINS METALLIC GOLD, RECOMMEND METALLIC GOLD ASSAY.

Certified by *Benjamin*
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FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 623-8868
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

OCT 09 1990

Assay Certificate

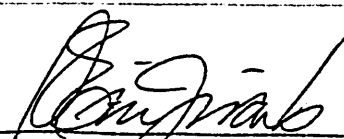
OV-1546-RA2

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W.J. ROBERTS

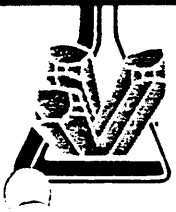
Date: OCT-03-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 24 ROCK samples
submitted OCT-01-90 by J.J. HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
23901	.12	.004
23902	.10	.003
23903	2.58	.075
23904	.04	.001
23905	.18	.005
23906	1.04	.030
23907	.38	.011
23908	.95	.028
23909	.57	.017
23910	.02	.001
23911	.50	.015
23912	.10	.003
23913	.03	.001
23914	.05	.001
23915	.02	.001
23916	.04	.001
23917	.02	.001
23918	.01	.001
23919	.03	.001
23920	.21	.006
23921	.18	.005
23922	.02	.001
23923	.01	.001
23924	.02	.001

Certified by 

MIN-EN LABORATORIES



OCT 09 1990

Assay Certificate

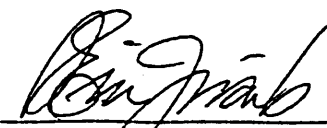
OV-1546-RA3

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W.J. ROBERTS

Date: OCT-03-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 24 ROCK samples
submitted OCT-01-90 by J.J. HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
23925	.10	.003
23926	.38	.011
23927	1.14	.033
23928	.03	.001
23929	.04	.001
23930	.02	.001
23931	.01	.001
23932	.01	.001
23933	.02	.001
23934	.01	.001
23935	.01	.001
23936	.01	.001
23937	.18	.005
23938	.01	.001
23939	.66	.019
23940	.02	.001
23941	.01	.001
23942	.02	.001
23943	.01	.001
23944	.01	.001
23945	.01	.001
23946	.02	.001
23947	.01	.001
23948	.34	.010

Certified by 



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FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB. OCT 09 1990
TELEPHONE/FAX (604) 847-3004

Assay Certificate

OV-1546-RA4

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W.J. ROBERTS

Date: OCT-03-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 8 ROCK samples
submitted OCT-01-90 by J.J. HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
23949	.02	.001
23950	.10	.003
23951	.21	.006
23952	.05	.001
23953	.01	.001
23954	.02	.001
23955	.01	.001
23956	.05	.001

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OCT 09 1990

Geochemical Analysis Certificate

OV-1546-RG1

Company: **COLUMBIA GOLD MINES**
 Project: **SPECTRUM**
 Attn: **WAYNE ROBERTS**

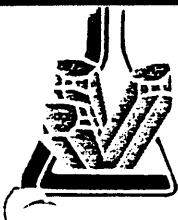
Date: **OCT-04-90**

Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 24 ROCK samples submitted OCT-01-90 by J.J.HYLANDS.

Sample Number	CU PPM
23877	660
23878	897
23879	749
23880	946
23881	876
23882	795
23883	620
23884	464
23885	591
23886	919
23887	463
23888	545
23889	878
23890	1220
23891	763
23892	602
23893	447
23894	399
23895	467
23896	463
23897	430
23898	427
23899	514
23900	687

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SMITHERS LAB.: OCT 09 1990
 TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1546-RG2

Company: **COLUMBIA GOLD MINES**

Project: **SPECTRUM**

Attn: **WAYNE ROBERTS**

Date: **OCT-04-90**

Copy 1. **COLUMBIA GOLD MINES, VANCOUVER, B.C.**

We hereby certify the following Geochemical Analysis of 24 ROCK samples submitted OCT-01-90 by J.J.HYLANDS.

Sample Number	CU PPM
23901	419
23902	435
23903	385
23904	293
23905	466
23906	413
23907	459
23908	754
23909	455
23910	378
23911	423
23912	388
23913	408
23914	365
23915	396
23916	493
23917	414
23918	259
23919	493
23920	460
23921	469
23922	630
23923	365
23924	448

Certified by *[Signature]*

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SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

OCT 09 1990

Geochemical Analysis Certificate

OV-1546-RG3

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: OCT-04-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 24 ROCK samples submitted OCT-01-90 by J.J.HYLANDS.

Sample Number	CU PPM
23925	490
23926	334
23927	209
23928	252
23929	496
23930	173
23931	199
23932	249
23933	155
23934	163
23935	190
23936	175
23937	176
23938	167
23939	208
23940	98
23941	119
23942	84
23943	71
23944	75
23945	102
23946	101
23947	83
23948	125

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SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

OCT 09 1990

Geochemical Analysis Certificate

OV-1546-RG4

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: OCT-04-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 8 ROCK samples submitted OCT-01-90 by J.J.HYLANDS.

Sample Number	CU PPM
23949	60
23950	65
23951	51
23952	78
23953	61
23954	40
23955	54
23956	88

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SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

OCT 10 1990

Assay Certificate

OV-1543-RA1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W. J. ROBERTS

Date: OCT-03-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 24 ROCK samples
submitted OCT-01-90 by J.J. HYLANDS.

90-56

Sample Number	AU g/tonne	AU oz/ton
23957	.39	.011
23958	.58	.017
23959	.54	.016
23960	.22	.006
23961	.58	.017
23962	.27	.008
23963	.74	.022
23964	.99	.029
23965	.21	.006
23966	.36	.011
23967	.08	.002
23968	.40	.012
23969	*10.91	.318
23970	.25	.007
23971	.20	.006
23972	.18	.005
23973	.17	.005
23974	.04	.001
23975	.02	.001
23976	.02	.001
23977	.07	.002
23978	.02	.001
23979	.04	.001
23980	.32	.009

*SAMPLE CONTAINS METALLIC, RECOMMEND METALLIC GOLD ASSAY.

Certified by

MIN-EN LABORATORIES



OCT 10 1990

Assay Certificate

0V-1543-RA2

Company: COLUMBIA GOLD MINES
 Project: SPECTRUM
 Attn: W.J. ROBERTS

Date: OCT-03-90

Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 24 ROCK samples submitted OCT-01-90 by J.J. HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
23981	.09	.003
23982	.21	.006
23983	.29	.008
23984	1.01	.029
23985	.13	.004
23986	.09	.003
23987	.01	.001
23988	.09	.003
23989	.11	.003
23990	.02	.001
23991	.02	.001
23992	.41	.012
23993	*3.52	.103
23994	2.30	.067
23995	.20	.006
23996	.22	.006
23997	.59	.017
23998	.23	.007
23999	.26	.008
24000	.29	.008
25001	2.33	.068
25002	.94	.027
25003	.34	.010
25004	.83	.024

*SAMPLE MAY CONTAIN METALLIC GOLD, RECOMMEND METALLIC GOLD ASSAY.

Certified by *Ben J. Roberts*

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FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931
SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

OCT 10 1990

Assay Certificate

OV-1543-RA3

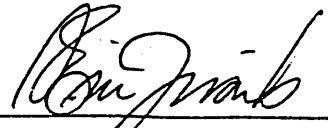
Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W. J. ROBERTS

Date: OCT-03-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 24 ROCK samples submitted OCT-01-90 by J.J.HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
25005	.36	.011
25006	.19	.006
25007	.41	.012
25008	.28	.008
25009	.68	.020
25010	.47	.014
25011	*2.38	.069
25012	1.14	.033
25013	.82	.024
25014	*3.70	.108
25015	2.23	.065
25016	4.77	.139
25017	14.70	.429
25018	.37	.011
25019	6.66	.194
25020	1.72	.050
25021	6.04	.176
25022	.44	.013
25023	.12	.004
25024	.07	.002
25025	.28	.008
25026	.40	.012
25027	.29	.008
25028	.21	.006

*SAMPLES MAY CONTAIN METALLIC GOLD, RECOMMEND METALLIC GOLD ASSAY.

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SMITHERS LAB.: **OCT 10 1990**
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Assay Certificate OV-1543-RA4

Company: **COLUMBIA GOLD MINES**
 Project: **SPECTRUM**
 Attn: **W.J.ROBERTS**

Date: **OCT-03-90**
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 13 ROCK samples submitted OCT-01-90 by J.J.HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
25029	.44	.013
25030	.31	.009
25031	.24	.007
25032	.07	.002
25033	.26	.008
25034	.02	.001
25035	.04	.001
25036	.01	.001
25037	.03	.001
25038	.02	.001
25039	.04	.001
25040	.03	.001
25041	.22	.006

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SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

OCT 10 1990

Geochemical Analysis Certificate

OV-1543-RG1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: OCT-03-90

Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 24 ROCK samples submitted OCT-01-90 by J.J.HYLANDS.

Sample Number	CU PPM
23957	1610
23958	1330
23959	1110
23960	1210
23961	740
23962	1230
23963	1710
23964	1730
23965	1105
23966	1185
23967	1070
23968	1125
23969	1430
23970	1250
23971	1155
23972	675
23973	1680
23974	1730
23975	1320
23976	865
23977	760
23978	890
23979	1710
23980	2100

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 FAX (604) 980-9621

THUNDER BAY LAB.:
 TELEPHONE (807) 622-8958
 FAX (807) 623-5931

SMITHERS LAB.: OCT 10 1990
 TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1543-RG4

Company: **COLUMBIA GOLD MINES**
 Project: **SPECTRUM**
 Attn: **WAYNE ROBERTS**

Date: **OCT-03-90**

Copy 1. **COLUMBIA GOLD MINES, VANCOUVER, B.C.**

We hereby certify the following Geochemical Analysis of 13 ROCK samples submitted OCT-01-90 by J.J.HYLANDS.

Sample Number	CU PPM
25029	610
25030	520
25031	305
25032	299
25033	317
25034	379
25035	318
25036	267
25037	280
25038	231
25039	293
25040	261
25041	424

Certified by _____

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THUNDER BAY LAB.:
 TELEPHONE (807) 622-8958
 FAX (807) 623-5931

SMITHERS LAB.:
 TELEPHONE/FAX (604) 847-3004

OCT 10 1990

Geochemical Analysis Certificate

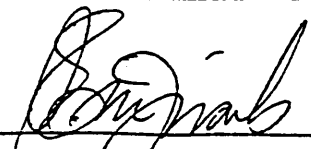
OV-1543-RG2

Company: **COLUMBIA GOLD MINES**
 Project: **SPECTRUM**
 Attn: **W.J.ROBERTS**

Date: **OCT-03-90**
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 24 ROCK samples submitted OCT-01-90 by J.J.HYLANDS.

Sample Number	CU PPM
23981	1050
23982	1210
23983	1200
23984	925
23985	805
23986	820
23987	885
23988	660
23989	830
23990	690
23991	685
23992	550
23993	845
23994	655
23995	595
23996	745
23997	605
23998	770
23999	605
24000	490
25001	405
25002	560
25003	490
25004	560

Certified by 

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THUNDER BAY LAB.:
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SMITHERS LAB.:
 TELEPHONE/FAX (604) 847-3004

OCT 10 1990

Geochemical Analysis Certificate

OV-1543-RG3

Company: COLUMBIA GOLD MINES
 Project: SPECTRUM
 Attn: WAYNE ROBERTS

Date: OCT-03-90
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 24 ROCK samples submitted OCT-01-90 by J.J.HYLANDS.

Sample Number	CU PPM
25005	570
25006	531
25007	652
25008	602
25009	427
25010	567
25011	520
25012	596
25013	640
25014	445
25015	460
25016	665
25017	567
25018	615
25019	890
25020	660
25021	646
25022	452
25023	420
25024	530
25025	760
25026	510
25027	694
25028	652

Certified by _____

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Metallic Assay Certificate

OV-1543-RM1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W. ROBERTS

Date: OCT-29-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Metallic Assay of 16 METALLIC samples submitted OCT-08-90 by WAYNE ROBERTS.

90-56

Sample Number	Total		Assay Value Au		Total Weight Au		Metallic Au		Net Au	
	Wt (g)	+120 M Wt (g)	+120(g/t)	-120(g/t)	+120(mg)	-120(mg)	(oz/ton)	(g/t)	(oz/ton)	(g/t)
23968	2184.49	34.49	.37	.34	0.013	0.731	0.000	0.01	0.010	0.34
23969	2129.40	29.40	338.78	1.54	9.960	3.234	0.136	4.68	0.181	6.20
23970	2265.33	40.33	1.26	.24	0.051	0.534	0.001	0.02	0.008	0.26
23993	1884.06	4.06	661.33	1.93	2.685	3.628	0.042	1.43	0.098	3.35
23994	1781.45	6.45	488.37	6.38	3.150	11.324	0.052	1.77	0.237	3.13
25011	1797.84	7.84	77.30	1.14	0.606	2.041	0.010	0.34	0.043	1.47
25012	2339.73	74.73	83.50	2.34	6.240	5.300	0.078	2.67	0.144	4.93
25013	2351.09	31.09	8.18	.83	0.254	1.926	0.003	0.11	0.027	0.93
25014	2004.60	29.60	44.70	2.84	1.323	5.509	0.019	0.66	0.101	3.46
25015	882.88	12.88	15.70	1.68	0.202	1.462	0.007	0.23	0.055	1.88
25016	2217.33	7.33	116.68	4.74	0.955	10.475	0.011	0.39	0.149	5.11
25017	631.29	21.29	42.13	9.12	0.997	5.563	0.041	1.42	0.298	10.23
25018	1660.85	30.85	.12	.30	0.004	0.489	0.000	0.00	0.009	0.30
25019	1648.07	18.07	192.58	2.31	3.480	3.765	0.062	2.11	0.128	4.40
25020	2543.77	18.77	22.38	1.26	0.420	3.181	0.005	0.17	0.041	1.42
25021	2077.62	2.62	384.73	6.52	1.008	13.529	0.014	0.49	0.204	7.00

Certified by

MIN-EN LABORATORIES

COMP: COLUMBIA GOLD MINES
 PROJ: SPECTRUM
 ATTN: W.ROBERTS/J.HYLANDS

MIN-EN LABS — ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

FILE NO: OV-1543-RJ1+2
 DATE: 90/11/26

90-56 * PULPS * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM
23957	8.6	10740	69	13	78	.8	1	14830	2.8	10	1805	34670	2260	13	5330	235	5	210	1	890	60	7	11	1	1	30.6	211	1	1	1	41
23958	6.2	11320	75	11	88	.5	2	21330	1.2	11	1551	36230	2500	13	6030	261	13	300	1	950	38	5	12	1	1	31.9	109	1	1	1	44
23959	5.5	11930	203	9	158	.4	2	20830	3.7	10	1277	30770	2640	9	5660	240	7	500	1	1000	25	3	19	1	1	40.4	74	1	1	1	48
23960	3.1	9890	83	8	278	.5	3	21950	.1	7	1393	26210	3630	4	4650	182	5	610	1	890	31	2	30	1	1	32.1	21	1	1	1	52
23961	3.8	10870	211	6	74	.7	2	20770	4.3	7	860	28350	2520	8	5890	220	4	500	1	890	29	3	21	1	1	41.5	61	1	1	1	47
23962	6.0	12210	646	9	89	.6	6	18890	14.9	9	1452	33100	3090	9	5370	176	5	410	1	950	33	5	19	1	1	29.2	96	1	1	1	53
23963	8.3	10920	3698	7	74	.5	6	19080	91.1	12	2245	35090	3230	8	4490	214	18	420	1	890	31	9	16	1	1	26.6	109	1	1	1	37
23964	8.4	11210	1270	7	75	.5	4	19400	31.5	12	2032	33770	3140	7	4450	245	10	440	1	940	46	8	14	1	1	29.6	138	1	1	1	56
23965	4.3	11250	784	4	84	.6	3	19130	16.6	11	1102	33400	2800	6	4900	239	11	410	1	930	37	4	16	1	1	28.6	69	1	1	1	45
23966	7.2	10190	2373	7	63	.3	6	20870	63.3	17	1529	35050	2910	6	4870	298	4	320	1	920	132	14	19	1	1	27.8	468	1	1	1	48
23967	5.1	9920	253	6	59	.4	3	20980	6.0	11	1336	32820	2910	6	3840	306	4	270	1	900	45	7	16	1	1	23.0	92	1	1	1	48
23968 -12ONESH	5.0	12000	1120	9	74	.7	4	23590	28.2	10	1298	31470	3390	7	3330	308	8	420	1	1040	42	8	24	1	1	28.6	95	1	1	1	63
23969 -12ONESH	6.8	11580	714	7	69	.5	7	26890	20.3	11	1543	31390	3330	7	4110	405	1	360	1	880	91	8	20	1	1	30.8	155	1	1	1	65
23970 -12ONESH	6.0	11680	64	8	66	.6	2	23300	.3	9	1679	30640	2630	8	5360	279	3	380	1	910	32	3	19	1	1	37.8	68	1	1	1	52
23971	4.9	10590	475	5	94	.6	3	32920	9.1	9	1260	28920	2090	7	3590	366	2	250	1	870	29	3	34	1	1	28.6	39	1	1	1	31
23972	2.7	12430	209	8	172	.9	2	16940	2.3	8	767	29230	2560	8	7800	221	9	500	1	1000	31	1	21	1	1	63.1	36	1	1	1	52
23973	6.3	22830	1	10	163	.5	5	18400	.1	25	1612	65200	5240	14	19490	412	6	1220	1	2540	24	1	24	1	1	176.2	54	1	1	1	19
23974	7.4	25530	1	12	136	.1	4	12770	.1	27	1853	68440	9560	17	27720	417	1	1060	1	2780	3	1	22	1	1	209.0	57	1	2	1	14
23975	6.0	23810	1	9	135	.2	5	14420	.1	26	1402	60760	9560	13	24690	437	1	1690	1	2310	12	1	22	1	1	193.2	46	1	1	1	17
23976	4.4	25010	278	10	154	.5	5	14170	3.1	26	886	63360	9770	15	28390	456	1	1040	1	2050	12	1	28	1	1	203.5	44	1	1	1	20
23977	4.2	26800	608	11	155	.5	4	20080	11.9	35	803	68030	7320	13	27090	491	1	1590	4	2210	23	1	53	1	1	198.5	36	1	1	1	40
23978	4.3	35830	1	11	98	.4	7	25360	.1	36	1018	72860	3420	11	19140	466	1	5280	10	2440	8	1	131	1	1	156.8	29	2	1	1	54
23979	7.3	28010	1	10	98	.2	9	17470	.1	34	2052	81510	4890	15	21580	428	1	2490	1	2560	4	1	62	1	1	196.8	45	1	1	1	30
23980	9.7	25880	1	12	192	.1	7	12860	.1	32	2620	77170	13700	13	28230	403	2	1410	1	2890	3	1	37	1	1	228.1	53	1	1	4	17
23981	5.1	23770	2040	12	108	.7	4	26540	44.5	31	1175	74310	7250	17	26110	678	4	590	2	2760	21	1	26	1	1	214.7	49	1	2	2	63
23982	5.9	27840	6610	13	192	.6	4	17380	168.9	58	1439	93520	9960	20	29060	503	3	880	1	3970	3	8	43	1	1	257.9	53	1	2	3	60
23983	6.6	27920	4471	11	187	.4	6	23010	103.3	44	1382	86170	8250	20	30470	611	8	1280	1	4030	10	2	66	1	1	259.8	55	1	2	2	55
23984	4.8	23740	3420	10	184	.8	4	21090	77.1	33	1027	77720	8270	15	22560	440	3	790	1	3030	23	4	44	1	1	227.8	42	1	2	1	41
23985	4.9	25810	304	9	126	.1	7	26640	2.8	32	904	74150	6440	13	19100	486	1	2580	1	3340	14	1	108	1	1	220.6	30	1	1	1	21
23986	4.5	21060	84	8	82	.5	5	39540	.1	27	881	65770	6090	13	18370	744	2	930	1	2650	18	15	56	1	1	172.1	37	1	2	1	65
23987	5.0	25830	1	8	196	.1	6	20200	.1	37	923	74170	7910	15	26410	434	2	1940	1	3110	13	1	97	1	1	242.1	37	1	2	1	27
23988	4.5	26490	1	8	206	.3	6	28290	.1	28	711	62830	7700	16	23630	550	1	2400	1	2660	6	1	192	1	3	220.3	34	1	2	1	26
23989	5.0	35860	1	9	63	.2	8	32990	.1	33	967	66750	3830	24	22210	523	1	5260	3	2700	3	1	96	1	1	228.1	39	1	3	2	47
23990	4.0	31850	1	8	51	.7	6	33410	.1	29	760	61730	2800	23	18400	585	5	4330	1	2430	12	12	77	1	1	173.7	34	3	2	1	22
23991	3.2	22870	1	6	45	.4	5	25710	.1	26	657	54600	2230	15	14290	446	1	3000	1	2220	3	1	51	1	1	135.9	33	1	1	1	11
23992	3.2	19250	273	8	33	.4	3	39880	3.5	22	596	44230	3170	16	14240	1445	9	1160	1	2650	47	34	38	1	1	129.3	80	1	2	1	16
23993 -12ONESH	4.3	18610	1	6	40	.1	6	21210	.1	31	922	58940	3010	19	19300	390	16	1380	1	3000	20	2	33	1	1	234.0	39	1	1	1	36
23994 -12ONESH	4.2	31190	1	7	61	.4	7	21110	.1	28	642	56190	4110	21	23110	347	2	3750	1	2710	3	1	69	1	1	172.5	31	1	2	1	14
23995	3.4	24530	1	6	45	.4	6	16640	.1	28	589	53820	2630	21	20990	316	1	2260	1	2860	13	1	52	1	1	165.4	32	1	1	1	10
23996	3.9	28060	1	8	60	.1	7	17970	.1	34	735	66080	4870	19	22190	335	1	2690	1	3020	15	1	57	1	1	187.3	31	1	1	1	17
23997	4.4	22890	1	5	65	.1	9	16640	.1	32	666	60660	5050	16	21690	295	1	2340	4	3200	11	1	46	1	1	188.8	31	1	1	1	26
23998	4.1	21300	1	5	51	.1	7	15740	.1	33	786	66010	3940	13	19710	304	1	2040	1	2950	10	1	44	1	1	174.5	30	1	2	1	19
23999	3.9	19380	1	6	41	.1	6	18170	.1	31	642	63220	3550	18	20780	325	1	1890	1	3120	5	1	42	1	1	199.0	31	1	1	1	22
24000	3.8	22290	1	5	53	.4	6	21080	.1	27	529	57780	5670	21	26690	421	1	1600	1	2800	6	5	38	1	1	201.5	35	1	2	1	31
25001	3.2	24600	1	5	68	.6	6	20740	.1	19	422	41590	7090	21	21580	301	24	3160	1	2070	22	1	49	1	1	154.4	33	1	1	1	14
25002	2.9	17780	1	4	62	.5	4	20490	.1	22	604	48900	8410	16	19900	287	7	1670	1	2120	19	2	32	1	1	143.0	31	1	2	1	19
25003	3.1	20490	1	4	61	.4	6	19180	.1	22	475	48980	5090	15	18380	279	4	2310	1	2070	29	1	44	1	1	139.0	35	1	1	1	16
25004	3.0	18890	1	3	74	.2	8	15760	.1	24	577	53590	8600	17	21890	291	1	1800	1	2330	13	1	35	1	1	153.8	28				

COMP: COLUMBIA GOLD MINES
 PROJ: SPECTRUM
 ATTN: W.ROBERTS/J.HYLANDS

MIN-EN LABS — ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7N 1T2
 (604)980-5814 OR (604)988-4524

FILE NO: DV-1543-RJ3+4
 DATE: 90/11/26
 * PULPS * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM
25005	3.1	23900	1	7	60	.3	4	21310	.1	27	580	55030	6600	20	19310	300	5	3010	11	3530	15	1	52	1	1	159.0	28	1	1	1	42
25006	2.8	21140	1	5	59	.1	5	16090	.1	25	540	52680	5770	16	17390	253	3	2640	1	2550	17	1	45	1	1	153.0	33	1	1	1	38
25007	3.6	38880	1	8	41	.2	5	23880	.1	33	805	65870	6310	27	23780	330	7	5690	3	3620	5	1	79	1	1	195.5	29	1	2	1	21
25008	3.0	26540	450	10	33	.7	4	41880	5.8	27	726	54480	6550	23	16490	1229	10	1440	13	3420	28	83	60	1	1	166.0	43	2	2	1	21
25009	3.1	29050	1	6	43	.5	4	33070	.1	24	485	51600	7290	28	25360	579	1	2720	5	3330	9	1	62	1	1	217.3	31	1	3	2	39
25010	3.2	28500	1	7	33	.4	5	25500	.1	33	663	63250	4110	31	25040	388	1	3580	1	2300	9	1	75	1	1	164.2	31	1	2	1	17
25011 -120MESH	3.3	31410	1	7	46	.3	7	30040	.1	26	656	54550	2780	33	22880	449	52	4560	1	2500	5	1	106	1	1	177.5	31	1	2	1	16
25012 -120MESH	2.5	26950	1	8	110	1.0	7	26570	.1	26	734	56770	5660	26	16420	414	8	1900	1	2520	45	4	106	1	1	163.6	132	1	2	1	13
25013 -120MESH	4.1	17450	47	6	30	.6	4	32670	.5	24	764	51190	3530	20	10170	524	8	510	1	2330	100	6	42	1	1	114.6	216	1	2	1	16
25014 -120MESH	3.2	16610	155	4	31	.7	2	39250	4.3	21	549	49620	4420	20	8550	877	5	530	1	2060	110	20	32	1	1	104.8	343	1	2	1	19
25015 -120MESH	4.7	12740	152	6	30	.4	4	59950	6.5	18	539	42840	4020	9	5580	1583	12	140	1	1900	78	32	43	1	1	49.7	741	2	1	1	36
25016 -120MESH	13.4	16230	160	6	34	.7	10	30650	2.1	21	786	47080	5300	12	4330	951	20	240	2	2460	121	28	27	1	1	76.1	237	1	2	1	17
25017 -120MESH	4.0	16940	39	7	38	1.1	19	24500	.1	25	670	55050	4400	10	7800	372	16	550	1	2850	28	2	31	1	1	105.6	130	1	1	1	13
25018 -120MESH	2.3	17560	21	8	31	.8	1	23520	.1	26	669	55800	5280	10	11090	293	5	760	1	3180	22	1	27	1	1	170.1	114	1	2	1	10
25019 -120MESH	8.0	16970	7	6	26	.9	7	22810	.1	28	903	59770	4630	10	6950	341	1	800	1	3200	55	2	29	1	1	141.5	117	1	2	1	8
25020 -120MESH	1.7	15340	16	4	33	.7	3	19770	.1	23	641	47780	4030	10	7470	199	2	820	1	3160	19	1	19	1	1	139.0	40	1	2	1	11
25021 -120MESH	5.3	15850	40	6	32	.8	8	26460	1.1	29	634	58610	5350	8	4940	402	3	340	1	3100	56	15	26	1	1	86.4	259	1	1	1	15
25022	2.3	31510	18	7	51	1.0	3	26840	.1	26	481	59250	5610	17	11650	286	11	2930	1	2790	28	1	53	1	1	161.1	51	2	1	1	14
25023	1.3	21290	1	4	30	.9	2	18900	.1	23	498	52620	3630	16	12690	231	1	1230	1	2980	21	1	24	1	1	177.9	30	1	2	1	17
25024	1.3	23580	24	6	30	.9	1	22570	.1	24	660	56590	4790	22	15440	340	1	1030	1	3310	15	2	25	1	1	189.8	30	1	2	1	12
25025	2.1	24660	1	7	31	1.0	1	22780	.1	29	817	72280	4220	22	15370	429	1	640	1	3110	33	8	22	1	1	196.7	32	2	2	1	7
25026	4.6	16950	75	6	20	.5	3	33630	6.9	23	656	63760	4500	13	7860	1095	1	330	1	2310	60	23	25	1	1	94.5	753	1	2	1	15
25027	4.3	29670	1	12	33	.7	3	25840	.1	36	826	79570	3220	51	12380	390	13	2200	1	2630	28	2	48	1	1	193.6	45	2	3	1	2
25028	2.2	23630	1	5	33	.5	2	26580	.1	32	757	69440	1930	15	9000	399	2	2160	1	3070	14	3	51	1	1	207.5	37	1	1	1	22
25029	3.1	15890	19	14	33	.7	2	33250	.1	24	696	53250	3140	15	4530	787	5	260	1	3030	22	12	28	1	1	93.3	60	1	1	1	19
25030	2.4	14470	26	12	33	.7	2	26460	.1	28	570	56710	3020	14	5790	455	6	210	1	3550	25	9	19	1	1	106.1	109	1	1	1	8
25031	1.2	18880	1	13	44	.7	2	20640	.1	23	299	48390	4740	18	9700	345	10	510	1	2700	21	10	21	1	1	99.9	27	1	2	1	14
25032	1.2	21210	13	11	53	1.0	1	19690	.1	20	288	45430	5460	20	11360	404	9	700	1	2460	13	10	28	1	1	129.0	58	1	2	1	10
25033	5.9	18040	388	14	38	.8	4	27010	8.6	22	305	50910	4500	16	6330	999	3	190	1	2410	31	38	22	1	1	73.2	71	1	1	1	13
25034	1.3	24200	14	13	40	.9	2	25080	.1	25	378	52160	3620	28	9730	422	2	810	1	2790	11	7	25	1	1	148.2	34	2	1	1	14
25035	1.4	31750	1	14	53	1.3	3	19870	.1	26	315	46680	5100	30	11280	241	4	1720	1	2970	14	4	34	1	1	204.7	35	2	2	2	43
25036	1.0	17280	50	12	33	.9	2	20990	.1	22	258	43810	3920	18	6660	290	7	480	1	2350	17	2	16	1	1	89.4	43	1	1	1	28
25037	1.2	17760	100	10	40	.9	1	20900	.1	23	260	46060	3730	19	6490	430	2	260	1	2480	26	19	15	1	1	72.6	30	1	1	1	22
25038	1.8	15640	142	12	27	1.0	3	40420	1.2	19	218	41100	3080	14	4860	859	8	300	1	2420	136	47	15	1	1	80.0	1208	2	1	1	11
25039	3.9	16880	443	12	29	1.0	2	30380	14.9	22	309	44760	4090	14	4800	925	9	210	1	2890	167	109	18	1	1	76.9	597	1	1	1	15
25040	1.2	20140	1	17	48	1.4	2	24180	.1	22	279	42830	4550	24	7910	504	1	860	1	2900	41	36	26	1	1	144.2	74	1	1	1	11
25041	10.6	19430	957	14	24	1.0	3	30370	30.5	23	462	49130	5090	19	6870	765	9	170	1	2600	351	122	14	1	1	69.2	681	1	2	1	45



OCT 11 1990

VANCOUVER OFFICE:
 705 WEST 15TH STREET
 NORTH VANCOUVER, B.C. CANADA V7M 1T2
 TELEPHONE (604) 980-5814 OR (604) 988-4524
 FAX (604) 980-9621

THUNDER BAY LAB.:
 TELEPHONE (807) 622-8958
 FAX (807) 623-5931

SMITHERS LAB.:
 TELEPHONE/FAX (604) 847-3004

SPECIALISTS IN MINERAL ENVIRONMENTS
 CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

Assay Certificate OV-1554-RA2

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W.J.ROBERTS

Date: OCT-07-90
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 24 CORE samples submitted OCT-04-90 by J.J.HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
25066	.19	.006
25067	.71	.021
25068	.60	.018
25069	.60	.018
25070	.61	.018

25071	.27	.008
25072	.16	.005
25073	.20	.006
25074	.18	.005
25075	.19	.006

25076	.16	.005
25077	.47	.014
25078	.30	.009
25079	1.95	.057
25080	.50	.015

25081	1.76	.051
25082	.44	.013
25083	.17	.005
25084	.20	.006
25085	.58	.017

25086	.44	.013
25087	.19	.006
25088	.42	.012
25089	.18	.005

Certified by 
 MIN-EN LABORATORIES



OCT 11 1990

VANCOUVER OFFICE:
705 WEST 15TH STREET
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SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

Assay Certificate

0V-1554-RA1

Company: **COLUMBIA GOLD MINES**
Project: **SPECTRUM**
Attn: **W. J. ROBERTS**

Date: **OCT-07-90**
Copy 1. **COLUMBIA GOLD MINES, VANCOUVER, B.C.**

We hereby certify the following Assay of 24 CORE samples submitted OCT-04-90 by J.J. HYLANDS.

10-58

Sample Number	AU g/tonne	AU oz/ton
25042	.38	.011
25043	.37	.011
25044	.65	.019
25045	.91	.027
25046	.43	.013
25047	.22	.006
25048	.24	.007
25049	.40	.012
25050	.57	.017
25051	.21	.006
25052	.19	.006
25053	.48	.014
25054	.19	.006
25055	.50	.015
25056	.52	.015
25057	.48	.014
25058	.09	.003
25059	.16	.005
25060	.22	.006
25061	3.30	.096
25062	.19	.006
25063	.20	.006
25064	.17	.005
25065	.36	.011

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FAX (604) 980-9621

THUNDER BAY LAB.:
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FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

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Assay Certificate

OV-1554-RA2

Company: **COLUMBIA GOLD MINES**
Project: **SPECTRUM**
Attn: **W.J.ROBERTS**

Date: **OCT-07-90**

Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 24 CORE samples submitted OCT-04-90 by J.J.HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
25066	.19	.006
25067	.71	.021
25068	.60	.018
25069	.60	.018
25070	.61	.018
25071	.27	.008
25072	.16	.005
25073	.20	.006
25074	.18	.005
25075	.19	.006
25076	.16	.005
25077	.47	.014
25078	.30	.009
25079	1.95	.057
25080	.50	.015
25081	1.76	.051
25082	.44	.013
25083	.17	.005
25084	.20	.006
25085	.58	.017
25086	.44	.013
25087	.19	.006
25088	.42	.012
25089	.18	.005

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Assay Certificate

OV-1554-RA3

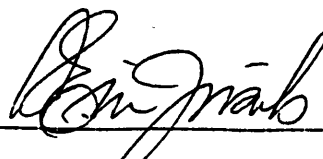
Company: **COLUMBIA GOLD MINES**
 Project: **SPECTRUM**
 Attn: **W.J.ROBERTS**

Date: **OCT-07-90**
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

He hereby certify the following Assay of 24 CORE samples submitted OCT-04-90 by J.J.HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
25090	2.82	.082
25091	.35	.010
25092	.18	.005
25093	.19	.006
25094	.22	.006
25095	.16	.005
25096	.21	.006
25097	.15	.004
25098	.14	.004
25099	.14	.004
25100	1.30	.038
25101	.18	.005
25102	.04	.001
25103	.06	.002
25104	.31	.009
25105	.20	.006
25106	.22	.006
25107	.70	.020
25108	.21	.006
25109	.20	.006
25110	.36	.011
25111	.50	.015
25112	.15	.004
25113	.12	.004

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Assay Certificate

0V-1554-RA4

Company: **COLUMBIA GOLD MINES**
 Project: **SPECTRUM**
 Attn: **W.J. ROBERTS**

Date: **OCT-08-90**
 Copy 1. **COLUMBIA GOLD MINES, VANCOUVER, B.C.**

We hereby certify the following Assay of 24 CORE samples submitted OCT-04-90 by J.J. HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
25114	4.96	.145
25115	.03	.001
25116	.02	.001
25117	.02	.001
25118	1.59	.046
25119	.10	.003
25120	.40	.012
25121	.05	.001
25122	.14	.004
25123	.32	.009
25124	.16	.005
25125	.18	.005
25126	.03	.001
25127	.04	.001
25128	.15	.004
25129	.22	.006
25130	.21	.006
25131	.03	.001
25132	.02	.001
25133	.80	.023
25134	.74	.022
25135	3.94	.115
25136	.18	.005
25137	.02	.001

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Assay Certificate

OV-1554-RA5

Company: **COLUMBIA GOLD MINES**
 Project: **SPECTRUM**
 Attn: **W. J. ROBERTS**

Date: **OCT-06-90**
 Copy 1. **COLUMBIA GOLD MINES, VANCOUVER, B.C.**

We hereby certify the following Assay of 2 CORE samples submitted OCT-04-90 by J. J. HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
25138	.19	.006
25139	.02	.001

Certified by *[Signature]*
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Geochemical Analysis Certificate

0V-1554-RG1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: OCT-05-90

Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 24 ROCK samples submitted OCT-04-90 by WAYNE ROBERTS.

Sample Number	CU PPM
25042	492
25043	1190
25044	1180
25045	1750
25046	4670
25047	613
25048	625
25049	1380
25050	810
25051	532
25052	875
25053	1900
25054	425
25055	1120
25056	665
25057	910
25058	595
25059	568
25060	1200
25061	1170
25062	642
25063	765
25064	605
25065	650

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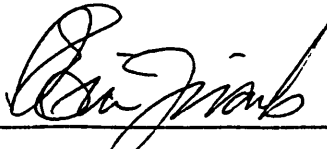
Geochemical Analysis Certificate OV-1554-RG2

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: OCT-05-90
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 24 ROCK samples submitted OCT-04-90 by WAYNE ROBERTS.

Sample Number	CU PPM
25066	648
25067	5230
25068	4060
25069	5370
25070	4010
25071	2880
25072	1480
25073	1830
25074	1800
25075	1330
25076	985
25077	997
25078	905
25079	1560
25080	1540
25081	955
25082	560
25083	689
25084	748
25085	1430
25086	422
25087	499
25088	635
25089	582

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Geochemical Analysis Certificate

OV-1554-RG3

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: OCT-05-90

Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 24 ROCK samples submitted OCT-04-90 by WAYNE ROBERTS.

Sample Number	CU PPM
25090	1150
25091	790
25092	540
25093	580
25094	605
25095	625
25096	725
25097	704
25098	672
25099	745
25100	1160
25101	750
25102	759
25103	684
25104	905
25105	730
25106	915
25107	775
25108	865
25109	1060
25110	673
25111	595
25112	545
25113	655

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Geochemical Analysis Certificate

OV-1554-RG4

Company: **COLUMBIA GOLD MINES**
 Project: **SPECTRUM**
 Attn: **W. J. ROBERTS**

Date: **OCT-06-90**
 Copy 1. **COLUMBIA GOLD MINES, VANCOUVER, B.C.**

We hereby certify the following Geochemical Analysis of 24 CORE samples submitted OCT-04-90 by J. J. HYLANDS.

Sample Number	CU PPM
25114	393
25115	561
25116	408
25117	496
25118	540
25119	435
25120	478
25121	522
25122	730
25123	604
25124	496
25125	455
25126	529
25127	537
25128	344
25129	770
25130	672
25131	735
25132	648
25133	387
25134	655
25135	620
25136	1270
25137	649

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Geochemical Analysis Certificate

OV-1554-RG5

Company: **COLUMBIA GOLD MINES**
 Project: **SPECTRUM**
 Attn: **W. J. ROBERTS**

Date: **OCT-06-90**

Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 2 CORE samples submitted OCT-04-90 by J. J. HYLANDS.

Sample Number	CU PPM
25138	670
25139	748

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OCT 17 1990

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Assay Certificate

OV-1575-RA1

Company: **COLUMBIA GOLD MINES**
 Project: **SPECTRUM**
 Attn: **WAYNE ROBERTS**

Date: **OCT-12-90**
 Copy 1. **COLUMBIA GOLD MINES, VANCOUVER, B.C.**

We hereby certify the following Assay of 24 CORE samples submitted OCT-09-90 by W.ROBERTS.

Sample Number	AU g/tonne	AU oz/ton
25140	.59	.017
25141	.78	.023
25142	.82	.024
25143	1.73	.050
25144	.43	.013
25145	.35	.010
25146	.22	.006
25147	.37	.011
25148	.36	.011
25149	.41	.012
25150	.38	.011
25151	.48	.014
25152	.59	.017
25153	.76	.022
25154	.40	.012
25155	.80	.023
25156	.86	.025
25157	.77	.022
25158	1.00	.029
25159	1.56	.046
25160	.75	.022
25161	.19	.006
25162	.20	.006
25163	.19	.006

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SMITHERS LAB.:
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Assay Certificate

OV-1575-RA2

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: OCT-12-90

Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 24 CORE samples submitted OCT-09-90 by W.ROBERTS.

Sample Number	AU g/tonne	AU oz/ton
25164	.36	.011
25165	.40	.012
25166	*.42	.012
25167	*.74	.022
25168	.30	.009
25169	.23	.007
25170	.37	.011
25171	.28	.008
25172	.17	.005
25173	.18	.005
25174	.07	.002
25175	.16	.005
25176	.26	.008
25177	*.84	.025
25178	*.34	.010
25179	*.27	.008
25180	*.46	.013
25181	.15	.004
25182	.09	.003
25183	.06	.002
25184	.04	.001
25185	*4.23	.123
25186	*35.83	1.045
25187	.14	.004

* SAMPLES MAY CONTAIN METALLIC GOLD, RECOMMEND METALLIC GOLD ASSAY

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Assay Certificate

OV-1575-RA3

Company: **COLUMBIA GOLD MINES**
 Project: **SPECTRUM**
 Attn: **WAYNE ROBERTS**

Date: **OCT-12-90**

Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 24 CORE samples submitted OCT-09-90 by W.ROBERTS.

Sample Number	AU g/tonne	AU oz/ton
25188	.20	.006
25189	.19	.006
25190	.02	.001
25191	.01	.001
25192	.02	.001
25193	.01	.001
25194	.01	.001
25195	.04	.001
25196	.01	.001
25197	.07	.002
25198	.02	.001
25199	.14	.004
25200	*1.80	.053
25201	.16	.005
25202	.20	.006
25203	*94.67	2.761
25204	*2.85	.083
25205	*.54	.016
25206	.21	.006
25207	.10	.003
25208	.06	.002
25209	*6.05	.176
25210	.09	.003
25211	*3.10	.090

* SAMPLES MAY CONTAIN METALLIC GOLD, RECOMMEND METALLIC GOLD ASSAY

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Assay Certificate

OV-1575-RA4

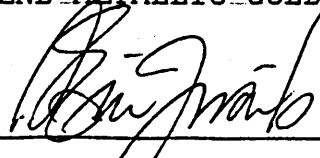
Company: **COLUMBIA GOLD MINES**
 Project: **SPECTRUM**
 Attn: **WAYNE ROBERTS**

Date: **OCT-13-90**
 Copy 1. **COLUMBIA GOLD MINES, VANCOUVER, B.C.**

We hereby certify the following Assay of 24 CORE samples submitted OCT-09-90 by W.ROBERTS.

Sample Number	AU g/tonne	AU oz/ton
25212 -	59.25	1.728
25213 -	.58	.017
25214 -	6.00	.175
25215 -	7.03	.205
25216 -	.39	.011
25217 -	3.46	.101
25218 -	4.21	.123
25219 -	2.10	.061
25220 -	*4.85	.141
25221 -	.68	.020
25222 -	*3.53	.103
25223	1.02	.030
25224	1.24	.036
25225	.62	.018
25226	.54	.016
25227	.71	.021
25228	.12	.004
25229	.08	.002
25230	1.28	.037
25231	.29	.008
25232	.40	.012
25233	.17	.005
25234	.88	.026
25235	2.15	.063

* SAMPLES MAY CONTAIN METALLIC GOLD, RECOMMEND METALLIC GOLD ASSAY

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(DIVISION OF ASSAYERS CORP.)

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OCT 17 1990

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FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Assay Certificate

OV-1575-RA5

Company: **COLUMBIA GOLD MINES**
Project: **SPECTRUM**
Attn: **WAYNE ROBERTS**

Date: **OCT-12-90**
Copy 1. **COLUMBIA GOLD MINES, VANCOUVER, B.C.**

We hereby certify the following Assay of 10 CORE samples submitted OCT-09-90 by W.ROBERTS.

Sample Number	AU g/tonne	AU oz/ton
25236	.10	.003
25237	.20	.006
25238	.09	.003
25239	.05	.001
25240	.02	.001
25241	.06	.002
25242	.02	.001
25243	.10	.003
25244	.30	.009
25245	.10	.003

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THUNDER BAY LAB.:
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SMITHERS LAB.:
 TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

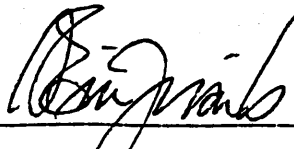
OV-1575-RG1

Company: **COLUMBIA GOLD MINES**
 Project: **SPECTRUM**
 Attn: **WAYNE ROBERTS**

Date: **OCT-11-90**
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 24 ROCK samples submitted OCT-09-90 by W.ROBERTS.

Sample Number	CU PPM
25140	3450
25141	1520
25142	1550
25143	1720
25144	600
25145	800
25146	660
25147	650
25148	810
25149	805
25150	495
25151	750
25152	1110
25153	1210
25154	790
25155	1620
25156	3000
25157	2475
25158	2700
25159	5700
25160	2475
25161	510
25162	1040
25163	1070

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OCT 17 1990

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 NORTH VANCOUVER, B.C. CANADA V7M 1T2
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 FAX (604) 980-9821

THUNDER BAY LAB.:
 TELEPHONE (807) 622-8958
 FAX (807) 623-5931

SMITHERS LAB.:
 TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate **OV-1575-RG2**

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: OCT-11-90
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 24 ROCK samples submitted OCT-09-90 by W.ROBERTS.

Sample Number	CU PPM
25164	1660
25165	1860
25166	1560
25167	1555
25168	1100
25169	990
25170	790
25171	300
25172	1045
25173	1840
25174	1025
25175	780
25176	800
25177	1525
25178	3000
25179	1020
25180	1160
25181	1045
25182	745
25183	870
25184	665
25185	985
25186	840
25187	1025

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OCT 17 1990

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Geochemical Analysis Certificate

OV-1575-RG3

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: OCT-11-90

Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 24 ROCK samples submitted OCT-09-90 by W.ROBERTS.

Sample Number	CU PPM
25188	640
25189	545
25190	700
25191	420
25192	540
25193	650
25194	1040
25195	850
25196	730
25197	680
25198	660
25199	670
25200	600
25201	700
25202	645
25203	640
25204	605
25205	660
25206	650
25207	900
25208	730
25209	735
25210	680
25211	530

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 FAX (604) 980-9621

THUNDER BAY LAB.:
 TELEPHONE (807) 622-8958
 FAX (807) 623-5931

SMITHERS LAB.:
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Geochemical Analysis Certificate

OV-1575-RG4

Company: **COLUMBIA GOLD MINES**
 Project: **SPECTRUM**
 Attn: **WAYNE ROBERTS**

Date: **OCT-11-90**

Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 24 ROCK samples submitted OCT-09-90 by W.ROBERTS.

Sample Number	CU PPM
25212	650
25213	545
25214	500
25215	400
25216	465
25217	370
25218	440
25219	650
25220	270
25221	550
25222	590
25223	640
25224	610
25225	710
25226	980
25227	395
25228	495
25229	700
25230	800
25231	580
25232	470
25233	490
25234	560
25235	455

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 FAX (604) 980-9621

THUNDER BAY LAB.:
 TELEPHONE (807) 622-8958
 FAX (807) 623-5931

SMITHERS LAB.:
 TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1575-RG5

Company: **COLUMBIA GOLD MINES**

Date: **OCT-11-90**

Project: **SPECTRUM**

Copy 1. **COLUMBIA GOLD MINES, VANCOUVER, B.C.**

Attn: **WAYNE ROBERTS**

We hereby certify the following Geochemical Analysis of 10 ROCK samples submitted OCT-09-90 by W.ROBERTS.

Sample Number	CU PPM
25236	630
25237	455
25238	505
25239	515
25240	680
25241	530
25242	450
25243	610
25244	650
25245	395

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VANCOUVER OFFICE:
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NORTH VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (604) 980-5814 OR (604) 988-4524
FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Metallic Assay Certificate

OV-1575-RM1

Company: **COLUMBIA GOLD MINES**
Project: **SPECTRUM**
Attn: **W.J. ROBERTS**

Date: **OCT-17-90**
Copy 1. **COLUMBIA GOLD, VANCOUVER, B.C.**

We hereby certify the following Metallic Assay of 25 METALLIC samples submitted OCT-15-90 by W.J. ROBERTS.

90-59

Sample Number	Total		Assay Value Au		Total Weight Au		Metallic Au		Net Au	
	Wt (g)	+120 M Wt (g)	+120(g/t)	-120(g/t)	+120(ag)	-120(ag)	(oz/ton)	(g/t)	(oz/ton)	(g/t)
25166	1245.23	65.23	.28	.27	0.018	0.319	0.000	0.01	0.008	0.27
25167	1101.91	21.91	.68	.26	0.015	0.281	0.000	0.01	0.008	0.27
25177	1387.23	37.23	2.50	.22	0.093	0.297	0.002	0.07	0.008	0.28
25178	2071.17	51.17	4.41	.18	0.226	0.364	0.003	0.11	0.008	0.28
25179	1338.21	48.21	1.05	.08	0.051	0.103	0.001	0.04	0.003	0.11
25180	1560.92	20.92	.13	.27	0.003	0.416	0.000	0.00	0.008	0.27
25185	1139.15	49.15	43.95	.56	2.160	0.610	0.055	1.90	0.071	2.43
25186	1614.77	34.77	249.35	3.14	8.670	4.961	0.157	5.37	0.246	8.44
25200	1334.12	14.12	14.83	.12	0.209	0.158	0.005	0.16	0.008	0.28
25203	1227.85	47.85	264.58	26.55	12.660	31.329	0.301	10.31	1.045	35.83
25204	1712.12	22.12	29.57	2.17	0.654	3.667	0.011	0.38	0.074	2.52
25205	1122.36	22.36	.71	.21	0.016	0.231	0.000	0.01	0.006	0.22
25209	1819.65	39.65	106.68	3.20	4.230	5.696	0.068	2.32	0.159	5.45
25211	1381.78	21.78	36.78	1.96	0.801	2.666	0.017	0.58	0.073	2.51
25212	1058.39	18.39	424.14	44.28	7.800	46.051	0.215	7.37	1.484	50.88
25213	1601.41	31.41	5.89	.68	0.185	1.068	0.003	0.12	0.023	0.78
25214	1629.97	39.97	20.78	6.80	0.831	10.812	0.015	0.51	0.208	7.14
25215	2364.67	14.67	264.38	3.54	3.878	8.319	0.048	1.64	0.150	5.16
25216	1829.92	19.92	.21	.22	0.004	0.398	0.000	0.00	0.006	0.22
25217	2007.57	17.57	274.20	4.20	4.818	8.358	0.070	2.40	0.191	6.56
25218	1388.22	18.22	30.94	3.62	0.564	4.959	0.012	0.41	0.116	3.98
25219	601.07	11.07	7.65	1.39	0.085	0.820	0.004	0.14	0.044	1.51
25220	1138.60	18.60	21.60	3.01	0.402	3.371	0.010	0.35	0.097	3.31
25221	1185.03	15.03	2.02	.72	0.030	0.842	0.001	0.03	0.021	0.74
25222	2373.39	33.39	120.30	5.02	4.017	11.747	0.049	1.69	0.194	6.64

Certified by

MIN-EN LABORATORIES

COMP: COLUMBIA GOLD MINES
 PROJ: SPECTRUM
 ATTN: W.ROBERTS

MIN-EN LABS ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

FILE 0V-1575-RJ1+2
 DATE: 90/11/26

90-59 * PULPS * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	
25140	4.0	9550	45	10	95	.6	1	17950	.1	11	2236	28080	3060	18	5290	670	15	220	1	820	32	4	4	1	1	47.0	39	1	1	1	82
25141	1.6	9330	23	7	104	.1	1	21800	.1	9	1376	27130	2990	7	3910	487	2	180	1	840	34	3	5	1	1	37.7	21	1	1	1	74
25142	1.6	8690	29	6	36	.3	1	21150	.1	7	1352	25840	3100	6	4550	431	18	120	1	770	18	1	3	1	1	40.2	14	1	1	1	79
25143	1.5	7360	57	5	117	.2	1	20100	.1	7	1652	33870	2780	6	3260	373	5	140	1	780	21	3	6	1	1	29.4	11	1	1	1	98
25144	1.2	4860	70	5	145	.1	1	25810	.1	8	580	29820	2560	1	820	679	22	20	1	720	27	4	7	1	1	11.1	5	1	1	1	109
25145	1.7	7670	41	5	223	.1	1	26080	.1	8	827	27620	3060	5	1060	649	9	30	1	790	23	1	7	1	1	13.7	6	1	1	1	103
25146	1.9	8990	67	5	269	.1	2	28340	.1	6	694	27830	2410	9	3470	1108	8	20	1	830	39	3	7	1	1	20.5	25	1	1	1	85
25147	2.8	9200	75	5	80	.3	1	29390	.5	7	655	27500	2290	14	2610	1057	6	30	1	790	90	3	6	1	1	22.6	34	1	1	1	109
25148	2.4	8910	51	4	285	.1	1	27550	.1	6	861	26030	2460	8	3100	1449	9	20	1	750	22	4	7	1	1	25.2	44	1	1	1	90
25149	2.4	7620	107	4	64	.1	1	23190	2.5	8	836	26470	2730	4	2230	1662	5	20	1	760	29	18	4	1	1	22.9	378	1	1	1	92
25150	1.6	9370	51	4	120	.1	1	20430	.1	7	496	26530	2450	7	2320	1420	8	10	1	910	22	4	5	1	1	28.2	79	1	1	1	70
25151	1.6	13540	78	6	68	.1	2	25730	.1	13	788	37180	2660	12	3510	1192	4	30	1	940	21	4	9	1	1	39.9	22	1	1	1	84
25152	1.6	13220	31	4	75	.5	1	23170	.1	7	1019	32810	2820	13	4530	830	6	110	1	830	19	2	7	1	1	50.7	18	1	1	1	78
25153	2.3	9600	311	4	35	.3	1	26150	5.6	7	1176	28640	2620	7	2250	908	7	30	1	850	32	9	6	1	1	26.0	293	1	1	1	81
25154	3.7	6870	139	3	38	.1	2	39610	2.8	5	890	25390	2510	5	1660	2116	6	40	1	600	56	20	7	1	1	17.0	237	1	1	2	138
25155	1.9	8060	41	4	59	.2	1	26510	.1	8	1727	26500	2620	6	1780	809	7	50	1	930	28	5	9	1	1	23.4	55	1	1	1	94
25156	3.6	11320	75	6	42	.3	1	26640	.1	8	2228	35410	2840	26	4620	788	2	200	1	960	17	5	9	1	1	33.9	19	2	1	1	87
25157	2.8	10460	6	4	68	.4	1	25650	.1	7	1819	29900	3190	11	4430	593	4	180	1	990	30	3	8	1	1	32.3	25	1	1	1	79
25158	2.4	12160	20	5	66	.2	1	20580	.1	8	2430	34450	3790	14	6320	431	6	300	1	1000	20	3	10	1	1	44.3	25	2	1	1	91
25159	5.0	7530	77	3	71	.1	2	26430	1.5	9	4085	30440	2420	6	2710	539	5	120	1	830	17	8	10	1	1	24.2	354	1	1	1	116
25160	2.2	9750	50	3	135	.6	1	23040	.1	9	2061	31770	3070	8	4900	497	9	170	1	960	21	3	12	1	1	31.1	15	1	1	1	85
25161	5.6	17620	1	4	597	.1	11	20300	.1	41	483	81880	2660	12	14310	942	1	1000	1	2480	9	1	71	1	1	179.2	90	1	1	2	22
25162	2.6	6300	68	2	71	.5	1	31090	.1	6	947	27910	2790	3	2210	454	4	160	1	960	24	36	17	1	1	13.7	20	1	2	1	87
25163	1.3	7160	14	2	76	.2	1	26160	.1	6	1033	25740	3030	4	2880	307	6	220	1	1040	16	8	18	1	1	16.5	21	1	1	1	85
25164	1.4	10140	29	14	146	.4	1	16690	.1	6	1537	24560	3110	14	7440	178	8	350	1	900	37	1	24	1	1	38.4	19	1	1	1	95
25165	1.2	9580	21	11	229	.4	1	18950	1.4	7	1612	24380	2760	11	6580	172	5	250	1	940	27	1	34	1	1	32.3	15	1	1	1	76
25166	1.5	9700	1	10	96	.2	1	20580	.4	6	1562	26200	3360	11	5740	159	10	280	1	1000	21	1	21	1	1	31.1	16	1	2	1	62
25167	9.4	11450	57	10	84	.3	13	19570	.1	11	1664	39170	2440	16	5800	206	2	240	1	930	30	5	13	1	1	33.0	64	1	1	1	61
25168	3.7	11070	51	14	137	.4	3	19270	.1	10	1019	33360	2600	13	4990	196	18	320	1	930	25	1	18	1	1	32.8	53	1	2	1	88
25169	2.9	10980	73	10	108	.5	4	17490	1.0	11	889	30440	2020	12	6580	186	13	390	1	920	17	2	22	1	1	49.7	42	1	2	1	71
25170	3.1	12030	78	9	71	.6	15	16850	.1	11	803	33130	2380	12	7970	172	4	350	1	920	25	1	18	1	1	48.4	38	1	1	1	83
25171	7.7	20820	89	13	104	.6	3	34920	.1	32	1893	64280	6940	16	15970	473	9	200	1	2450	19	6	31	1	1	125.3	60	1	2	1	42
25172	4.6	17310	11	11	104	.4	6	21020	.1	23	1045	52400	4810	16	12100	298	1	350	1	2200	22	3	24	1	1	104.3	38	2	2	1	24
25173	6.4	23790	16	14	130	.7	3	23300	.1	23	1985	57960	6820	21	17340	385	5	240	1	2160	12	7	27	1	1	130.0	74	2	3	1	20
25174	5.1	22330	41	17	139	.4	2	38640	.1	23	1029	54360	7060	20	18600	693	6	730	1	1780	19	7	39	1	1	148.5	34	2	2	1	24
25175	4.2	25460	1	10	209	.1	4	22360	.1	26	841	61370	8240	22	25450	488	1	1240	1	2130	7	1	41	1	1	215.9	44	1	1	1	27
25176	4.5	24410	2651	10	193	.1	11	26680	56.1	24	977	59190	8860	23	24420	636	1	1390	1	2060	5	1	37	1	1	212.9	49	1	3	1	28
25177	5.9	24510	55	12	85	.4	4	50350	.1	28	1545	75900	2630	32	26270	1052	1	660	1	1790	12	5	57	1	1	193.2	51	2	5	2	117
25178	6.9	24870	1	14	199	.1	2	18090	.1	30	1929	66620	10060	24	28410	449	2	580	1	1940	7	1	18	1	1	211.1	58	1	2	1	61
25179	4.3	23710	1	15	140	.6	3	24930	.1	23	1141	50210	5890	21	25490	486	1	400	1	2130	11	1	17	1	1	198.3	50	1	2	1	30
25180	5.0	22750	1	11	137	.2	1	24330	.1	22	1238	53610	6240	21	22610	538	7	750	1	1880	16	2	30	1	1	192.7	50	1	3	1	31
25181	6.1	22300	130	10	138	.4	5	50600	.5	24	1126	54460	6350	21	22600	1000	2	860	1	1940	16	2	34	1	1	182.6	46	2	2	1	23
25182	4.2	25190	569	14	93	.2	4	25710	9.1	35	859	59770	2390	18	19800	500	10	2140	1	2420	17	1	47	1	1	215.2	52	1	2	1	25
25183	4.3	21540	1	10	100	.1	3	26390	.1	27	1001	64770	4700	22	21560	531	1	1200	1	2130	20	3	30	1	1	204.8	37	1	2	1	22
25184	3.5	19040	1	8	80	.2	4	22260	.1	26	714	63410	4500	16	20000	438	6	790	1	2130	4	1	25	1	1	212.2	33	1	2	1	22
25185	3.7	20930	2250	11	94	.1	3	16810	46.2	62	1072	67800	5950	14	18760	338	1	960	1	2380	19	1	26	1	1	202.6	48	1	3	2	13
25186	3.5	20510	8450	11	82	.2	11	21580	190.4	130	936	67170	4360	15	17980	377	9	570	1	3010	21	36	46	1	1	190.8	53	2	2	29	19
25187	3.6	20530	21	9	83	.7	2	24320	.1	26	1046	65650	3930	16	17890	425	1	960	1	2960	19	1	55	1	1	194.7	44	2	2	1	15

COMP: COLUMBIA GOLD MINES
 PROJ: SPECTRUM
 ATTN: W.ROBERTS

MIN-EN LABS ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

FILE: 0V-1575-RJ3+4
 DATE: 90/11/26
 * PULPS * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM
25188	3.0	20920	160	10	70	.8	2	19230	.1	25	634	64820	6980	18	23370	365	10	380	1	3280	16	1	25	1	1	223.3	34	2	2	1	17
25189	2.9	21610	1	9	77	.5	3	34010	.1	24	562	62860	7340	19	25050	423	11	270	1	3000	10	1	83	1	1	193.6	34	1	3	1	9
25190	3.4	26050	1	9	47	.5	1	30330	.1	31	690	68310	3150	21	26350	506	3	880	7	2900	4	2	52	1	1	234.1	48	2	2	1	29
25191	3.2	16630	1	6	53	.8	1	40800	.1	21	415	54660	3010	14	19950	699	5	390	1	1870	34	8	45	1	1	136.9	28	2	2	1	11
25192	2.9	18470	1	5	54	.2	4	21870	.1	25	565	54610	6030	19	22490	372	2	540	1	2270	16	1	27	1	1	173.8	31	1	2	1	13
25193	3.8	25030	1	7	84	.1	3	20210	.1	32	685	70780	9490	24	33820	440	1	830	3	3870	4	1	32	1	1	230.6	39	1	3	1	32
25194	3.4	30110	1	8	37	.5	2	23990	.1	36	964	74110	1590	22	25630	448	12	2450	10	1890	5	1	84	1	1	158.4	36	1	2	1	51
25195	4.4	28070	1	7	22	.3	4	30500	.1	34	960	63310	890	18	18180	688	3	2930	8	1940	28	29	82	1	1	130.0	55	1	2	1	53
25196	3.8	22710	3	6	58	.1	4	27880	.1	28	727	60700	3710	23	24600	588	1	1450	1	2630	9	28	50	1	1	224.0	32	1	2	1	34
25197	3.2	23060	4	7	67	.9	2	33150	.1	26	663	58300	4820	21	22240	588	1	590	1	2770	18	10	35	1	1	202.7	32	2	2	1	30
25198	3.4	17080	81	5	28	.7	2	45560	.1	22	682	47420	1920	16	15180	811	41	140	1	2640	20	15	36	1	1	149.8	43	2	2	1	17
25199	3.6	19020	102	7	59	.8	2	46150	.1	24	644	54290	4010	17	16100	868	38	140	1	2390	39	21	38	1	1	131.9	70	2	2	1	6
25200 -120MESH	3.2	10770	98	4	29	.5	1	39470	.1	20	678	35820	3090	9	6500	629	54	180	2	2150	24	15	19	1	1	64.1	30	1	1	1	30
25201	2.7	23510	1	7	69	1.3	3	22320	.1	24	673	51210	7680	24	19180	353	5	1080	1	2670	19	7	41	1	1	191.4	34	1	2	1	9
25202	2.9	27100	1	7	72	1.3	2	19940	.1	24	727	50990	8830	23	19850	308	3	1580	1	3400	15	1	47	1	1	241.3	30	1	2	1	13
25203 -120MESH	4.0	18410	340	6	49	1.0	5	19810	3.2	24	706	50570	6210	22	14980	309	110	300	1	3240	21	2	19	1	1	203.0	37	1	2	1	17
25204 -120MESH	3.2	21880	503	7	71	.9	1	20540	8.7	22	659	48530	9490	23	17370	395	32	360	1	3280	7	9	24	1	1	219.6	36	2	2	1	18
25205 -120MESH	2.9	18160	295	8	35	.9	2	30230	.2	24	686	51530	3430	18	8620	581	9	210	1	2870	29	50	21	1	1	99.8	38	1	2	4	28
25206	2.7	16240	54	6	44	1.0	2	30340	.1	23	629	47620	3290	15	10740	586	1	270	1	3330	25	8	23	1	1	143.5	58	2	1	1	8
25207	3.6	17870	74	6	35	.7	2	33210	.1	29	1007	62980	3320	19	11810	585	5	430	1	2480	33	7	18	1	1	163.3	50	2	2	1	5
25208	2.8	20230	1	6	48	.6	2	20640	.1	28	872	63580	3550	20	11680	354	1	1060	1	2660	21	2	33	1	1	170.2	30	2	2	1	2
25209	3.1	19860	31	6	57	1.3	3	20000	.1	26	803	56190	6720	19	13330	339	13	630	1	3010	12	1	28	1	1	179.3	34	2	3	1	15
25210	2.7	28000	1	8	75	1.1	3	21580	.1	24	748	55720	8510	25	16470	280	6	1310	1	3280	11	3	51	1	1	209.6	25	2	2	1	8
25211 -120MESH	2.4	19120	24	8	50	1.5	2	26390	.1	22	572	49560	5010	21	12210	415	24	390	1	3470	32	6	44	1	1	122.3	62	2	2	1	19
25212 -120MESH	14.1	10610	208	14	36	.5	4	46630	25.3	18	735	52460	3130	9	19690	1025	220	80	1	2150	123	18	42	1	1	56.5	2232	2	2	1	32
25213 -120MESH	2.8	16050	27	10	45	.8	2	23360	.1	20	591	45470	5030	17	10690	479	5	400	1	2720	37	4	23	1	1	115.3	296	1	1	1	20
25214 -120MESH	2.9	18800	31	10	41	.8	2	27470	.1	19	526	42310	4870	19	10070	483	21	350	1	2540	11	7	33	1	1	111.8	44	1	2	1	15
25215 -120MESH	4.9	16650	125	14	34	.7	3	34620	.1	19	452	41390	5210	11	10480	1275	12	120	1	2510	61	36	39	1	1	68.5	155	2	2	1	34
25216 -120MESH	3.9	12900	1810	10	35	.5	2	20870	45.3	26	487	38250	5190	11	7800	595	22	220	1	2560	128	15	22	1	1	70.9	212	1	1	1	27
25217 -120MESH	6.0	10670	12195	7	39	.6	3	26390	340.5	32	407	41880	4660	10	8520	703	21	160	1	2450	54	20	26	1	1	45.8	149	1	1	1	20
25218 -120MESH	4.2	12880	563	8	33	.6	2	27150	22.1	19	482	36850	5080	12	7410	733	99	150	1	2680	66	7	35	1	1	65.3	1034	1	1	1	32
25219 -120MESH	2.7	26260	1	14	42	1.0	2	23550	.1	24	713	64650	5790	29	12770	302	127	130	1	3180	20	3	30	1	1	187.7	62	2	2	1	18
25220 -120MESH	4.6	10140	181	6	186	.4	5	86030	.1	12	296	31000	2730	9	6140	1594	40	40	1	1670	38	11	43	1	1	59.5	81	2	2	1	23
25221 -120MESH	3.3	12840	326	7	62	.2	1	25470	7.6	20	601	40080	4910	9	7620	588	10	250	1	2830	40	6	24	1	1	84.1	234	1	1	1	41
25222 -120MESH	3.7	20240	50	10	67	.8	5	35380	.1	22	656	49560	6300	21	13340	570	124	510	1	2860	21	5	47	1	1	137.2	30	2	2	1	19
25223	4.0	14680	25	8	39	.8	2	33400	.1	18	627	43070	3950	11	11110	724	66	110	3	2860	68	8	32	1	1	105.4	279	2	1	1	11
25224	4.6	13620	413	7	24	1.1	2	31550	11.7	19	631	54550	2950	10	7320	608	36	90	1	2850	181	12	31	1	1	76.7	351	2	1	1	8
25225	3.5	29750	18	14	58	1.2	1	21570	.1	29	856	68120	8200	34	17510	405	28	140	1	3880	25	10	37	1	1	188.5	109	2	3	1	1
25226	3.3	14770	28	8	31	.2	1	26920	.1	24	936	48580	3470	13	6220	408	48	80	1	3760	23	13	38	1	1	84.2	33	1	2	1	1
25227	3.9	12520	12218	10	26	.8	2	45670	351.0	27	397	44090	3140	13	6970	982	24	90	4	2470	36	26	40	1	1	154.5	295	2	1	1	8
25228	2.6	20860	87	7	41	.8	2	26960	.1	21	481	47310	4550	18	15720	466	5	320	9	3180	12	8	30	1	1	197.4	52	2	1	1	9
25229	2.7	19900	44	7	37	.5	2	20840	.1	27	684	58450	2890	20	15180	398	1	850	1	2990	10	2	34	1	1	214.3	36	2	2	1	6
25230	4.6	20820	486	8	46	.2	2	23910	11.8	34	750	63160	4490	18	16460	584	1	800	1	2780	106	31	36	1	1	203.3	315	2	2	1	10
25231	3.7	28120	1	8	50	.2	4	24910	.1	29	606	66590	4880	23	19470	489	1	1910	1	2920	17	1	50	1	1	230.6	66	2	2	1	7
25232	2.5	20390	1	6	57	.4	1	19080	.1	25	498	51800	5850	18	18800	338	1	640	1	3000	17	2	26	1	1	230.6	38	1	2	1	13
25233	2.4	20610	520	7	51	.3	2	26100	11.2	25	494	52500	5490	19	15560	512	8	630	1	3250	24	29	32	1	1	196.0	141	2	2	1	8
25234	3.1	13530	569	6	31	.5	3	17730	41.8	25	569	46550	3810	14	6370	353	17	220	1	2760	27	14	18	1	1	83.3	2375	1	1	1	20
25235	2.1	16770	65	5	46	.3	3	20710	.1	26	436	46560	4390	15	13410	395	5	800	11	2110	21	2</									

COMP: COLUMBIA MINES
 PROJ: SPECTRUM
 ATTN: W.ROBERTS

MIN-EN LABS ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

FIL #: 0V-1575-RJ5
 DATE: 90/11/26
 * PULPS * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM
25236	3.2	21200	7	17	24	.1	1	26720	.1	32	677	71890	1840	28	15490	660	5	550	1	1850	34	12	24	2	1	162.6	136	1	2	1	12
25237	4.3	34630	5677	12	39	.3	3	27480	147.0	31	510	61110	4720	22	22990	693	1	3190	9	1980	129	23	66	1	1	192.2	289	1	2	1	20
25238	2.3	26710	1	7	47	.2	3	22270	.1	27	559	55570	5380	20	21550	587	1	2270	8	2190	25	4	49	1	1	170.3	47	1	3	1	30
25239	4.6	22110	25	4	24	.1	7	33410	.1	30	565	60380	1090	19	19050	720	1	1960	27	2870	13	1	61	1	1	236.0	55	1	1	3	190
25240	4.8	22360	17	5	21	.1	6	28240	.1	35	759	71540	1160	19	19130	662	1	1620	32	2720	16	1	57	1	1	215.1	51	1	1	2	162
25241	3.6	24210	49	3	33	.3	4	46420	.1	23	542	49590	3070	21	21360	1221	1	1350	17	2350	9	5	53	1	1	195.2	58	2	2	2	118
25242	3.0	22660	58	3	31	.6	2	58350	.1	21	458	48260	3530	16	17590	1531	3	1140	15	2340	36	13	45	1	1	153.3	51	2	2	1	75
25243	3.1	18910	1	1	24	.1	4	33610	.1	25	623	51710	1140	16	17180	764	1	1450	27	2480	16	1	60	1	1	153.9	39	1	1	2	125
25244	2.7	21350	1	2	21	.2	3	33330	.1	27	659	55570	2590	19	22290	819	2	1180	23	1950	12	1	53	1	1	161.3	35	1	2	2	103
25245	2.8	20360	82	2	17	.6	2	46600	.1	22	406	46370	2180	16	17920	1303	1	730	39	2550	20	15	69	1	1	193.0	40	2	1	2	179



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OCT 17 1990

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705 WEST 15TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (604) 980-5814 OR (604) 988-4524
FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Assay Certificate

OV-1576-RA1

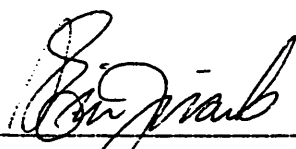
Company: **COLUMBIA GOLD MINES**
Project: **SPECTRUM**
Attn: **WAYNE ROBERTS**

Date: **OCT-12-90**
Copy 1. **COLUMBIA GOLD MINES, VANCOUVER, B.C.**

We hereby certify the following Assay of 24 CORE samples submitted OCT-09-90 by W.ROBERTS.

90-60

Sample Number	AU g/tonne	AU oz/ton
25246	1.12	.033
25247	.83	.024
25248	1.20	.035
25249	5.30	.155
25250	1.12	.033
25251	.63	.018
25252	.99	.029
25253	.74	.022
25254	1.14	.033
25255	1.34	.039
25256	.78	.023
25257	1.21	.035
25258	1.02	.030
25259	1.14	.033
25260	1.07	.031
25261	.64	.019
25262	1.42	.041
25263	.80	.023
25264	.41	.012
25265	.40	.012
25266	.41	.012
25267	.25	.007
25268	.62	.018
25269	1.13	.033

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Assay Certificate

OV-1576-RA2

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: OCT-12-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 24 CORE samples submitted OCT-09-90 by W.ROBERTS.

Sample Number	AU g/tonne	AU oz/ton
25270	.45	.013
25271	.88	.026
25272	*2.15	.063
25273	2.16	.063
25274	*2.50	.073
25275	.44	.013
25276	*1.40	.041
25277	1.04	.030
25278	.40	.012
25279	.30	.009
25280	.21	.006
25281	.38	.011
25282	.52	.015
25283	1.18	.034
25284	1.71	.050
25285	6.86	.200
25286	.60	.018
25287	.77	.022
25288	.71	.021
25289	.37	.011
25290	.46	.013
25291	.41	.012
25292	.39	.011
25293	.19	.006

*SAMPLES MAY CONTAIN METALLIC GOLD, RECOMMEND METALLIC GOLD ASSAY.

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FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Assay Certificate

0V-1576-RA3

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: OCT-12-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 24 CORE samples
submitted OCT-09-90 by W.ROBERTS.

Sample Number	AU g/tonne	AU oz/ton
25294	.21	.006
25295	.05	.001
25296	.06	.002
25297	.21	.006
25298	.12	.004
25299	.24	.007
25300	.20	.006
25301	.40	.012
25302	.32	.009
25303	.19	.006
25304	.12	.004
25305	.21	.006
25306	.22	.006
25307	.26	.008
25308	.74	.022
25309	1.34	.039
25310	.54	.016
25311	8.50	.248
25312	.42	.012
25313	.38	.011
25314	.21	.006
25315	.10	.003

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FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1576-RG1

Company: **COLUMBIA GOLD MINES**
Project: **SPECTRUM**
Attn: **WAYNE ROBERTS**

Date: **OCT-11-90**
Copy 1. **COLUMBIA GOLD MINES, VANCOUVER, B.C.**

We hereby certify the following Geochemical Analysis of 24 ROCK samples submitted OCT-09-90 by W.ROBERTS.

Sample Number	CU PPM
25246	2700
25247	1410
25248	2250
25249	300
25250	2550
25251	1620
25252	1560
25253	2025
25254	1725
25255	3075
25256	2625
25257	3900
25258	1230
25259	1340
25260	2700
25261	1545
25262	2400
25263	2400
25264	1500
25265	2850
25266	1745
25267	1725
25268	3900
25269	2625

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Geochemical Analysis Certificate

OV-1576-RG2

Company: **COLUMBIA GOLD MINES**
Project: **SPECTRUM**
Attn: **WAYNE ROBERTS**

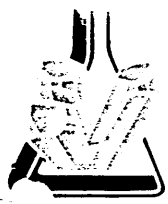
Date: **OCT-11-90**
Copy 1. **COLUMBIA GOLD MINES, VANCOUVER, B.C.**

We hereby certify the following Geochemical Analysis of 24 ROCK samples submitted OCT-09-90 by W.ROBERTS.

Sample Number	CU PPM
25270	1560
25271	2700
25272	1780
25273	2175
25274	1620
25275	1400
25276	2175
25277	2400
25278	500
25279	760
25280	1030
25281	1740
25282	2400
25283	3375
25284	2700
25285	2775
25286	4200
25287	3150
25288	2550
25289	1240
25290	810
25291	1160
25292	1300
25293	990

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Geochemical Analysis Certificate

0V-1576-RG3

Company: **COLUMBIA GOLD MINES**
Project: **SPECTRUM**
Attn: **WAYNE ROBERTS**

Date: **OCT-11-90**
Copy 1. **COLUMBIA GOLD MINES, VANCOUVER, B.C.**

We hereby certify the following Geochemical Analysis of 22 ROCK samples submitted OCT-09-90 by W.ROBERTS.

Sample Number	CU PPM
25294	160
25295	1560
25296	840
25297	1090
25298	845
25299	650
25300	650
25301	760
25302	810
25303	730
25304	600
25305	520
25306	570
25307	625
25308	575
25309	465
25310	470
25311	335
25312	310
25313	465
25314	545
25315	460

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MIN-EN LABORATORIES
(DIVISION OF ASSAYERS CORP.)

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:
705 WEST 15TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (604) 980-5814 OR (604) 988-4524
FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Metallic Assay Certificate

OV-1576-RM1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W. ROBERTS

Date: NOV-28-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

He hereby certify the following Metallic Assay of 15 METALLIC samples submitted NOV-21-90 by W.ROBERTS.

Sample Number	Total		Assay Value Au		Total Weight Au		Metallic Au		Net Au	
	Wt (g)	+120 M Wt (g)	+120(g/t)	-120(g/t)	+120(mg)	-120(mg)	(oz/ton)	(g/t)	(oz/ton)	(g/t)
25248	971.94	51.94	1.67	1.12	0.087	1.030	0.003	0.09	0.034	1.15
25249	1876.60	36.60	12.38	3.06	0.453	5.630	0.007	0.24	0.095	3.24
25250	1869.17	39.17	1.32	1.16	0.052	2.123	0.001	0.03	0.034	1.16
25272	1541.64	31.64	3.89	1.38	0.123	2.084	0.002	0.08	0.042	1.43
25273	2359.69	39.69	19.12	2.20	0.759	5.104	0.009	0.32	0.072	2.48
25274	2117.57	37.57	16.13	1.27	0.606	2.642	0.008	0.29	0.045	1.53
25275	1972.43	32.43	.29	.40	0.009	0.776	0.000	0.00	0.012	0.40
25276	2138.58	18.58	39.88	.86	0.741	1.823	0.010	0.35	0.035	1.20
25277	2231.42	21.42	3.39	1.00	0.073	2.210	0.001	0.03	0.030	1.02
25283	2425.15	35.15	3.93	.86	0.138	2.055	0.002	0.06	0.026	0.90
25284	1809.05	29.05	9.31	1.61	0.270	2.866	0.004	0.15	0.051	1.73
25285	2339.57	19.57	85.23	7.26	1.668	16.843	0.021	0.71	0.231	7.91
25309	2204.17	24.17	15.02	1.32	0.363	2.878	0.005	0.16	0.043	1.47
25310	2261.32	51.32	1.36	.65	0.070	1.436	0.001	0.03	0.019	0.67
25311	2450.53	10.53	95.16	5.20	1.002	12.688	0.012	0.41	0.163	5.59

Certified by _____

MIN-EN LABORATORIES

COMP: COLUMBIA GOLD MINES
 PROJ: SPECTRUM
 ATTN: WAYNE ROBERTS

MIN-EN LABS — ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

FILE NO: OV-1576-RJ1+2
 DATE: 90/11/24

90-60

* CORE * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPH	AS PPM	B PPH	BA PPM	BE PPH	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	NH PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM
25246	4.2	11000	37	21	189	.6	1	28590	.1	6	2415	20770	2360	14	2010	800	6	60	8	1000	20	5	6	1	1	28.4	36	1	1	1	53
25247	7.6	10110	242	16	115	.4	1	30500	12.3	6	1298	26480	2510	12	2020	964	4	30	3	810	112	17	6	1	1	20.4	1013	1	1	1	66
25248	3.8	11110	59	16	168	.6	2	31120	.1	8	1936	22580	2950	10	1920	964	2	30	2	1020	31	13	9	1	1	18.0	49	1	1	1	76
25249	4.0	11560	38	12	99	.1	3	28500	.1	6	2382	28040	2670	10	2620	701	2	100	2	980	18	8	12	1	1	27.1	22	1	1	1	74
25250	4.6	14190	153	14	309	.4	2	37730	1.4	6	2509	26140	3000	17	5490	1082	6	120	1	880	28	19	13	1	1	36.8	29	1	1	1	83
25251	2.4	13820	9	16	820	.7	1	27170	.1	6	1696	22670	3240	17	7150	662	12	270	7	880	14	2	18	1	1	50.9	18	1	1	1	82
25252	6.5	13940	400	11	99	.5	3	21840	9.2	7	1471	28440	2000	15	7930	517	1	190	6	1010	22	11	9	1	1	57.9	77	2	1	1	68
25253	8.2	12780	354	11	317	.4	1	18790	9.4	8	1784	32160	1980	15	7440	419	2	210	1	930	31	12	10	1	1	50.3	149	1	1	1	71
25254	12.9	12080	411	11	182	.5	2	20480	9.7	9	1701	30150	1810	13	7380	460	2	160	1	950	31	25	9	1	1	50.4	133	1	1	1	54
25255	9.5	12080	160	10	173	.4	2	19340	1.9	9	2286	34350	1660	15	7490	385	5	200	1	920	18	11	12	1	1	49.9	87	2	1	1	54
25256	8.4	11890	145	9	113	.8	1	19810	2.3	9	2056	31090	1720	14	6610	414	6	160	2	900	22	37	10	1	1	40.3	113	1	1	1	70
25257	5.9	10810	34	10	134	.7	2	32890	.1	6	3539	22590	2130	11	4180	650	25	130	1	950	23	9	28	1	1	29.8	19	1	1	1	24
25258	4.8	11550	103	12	132	.8	1	29670	.1	8	1252	27250	2680	11	3950	576	21	100	1	1010	25	10	21	1	1	24.7	56	1	1	1	16
25259	6.1	12600	65	10	156	.4	2	22040	.1	9	1265	30780	1940	13	5330	329	7	210	1	1020	24	5	34	1	1	42.9	48	1	1	1	76
25260	6.5	10990	177	10	266	.5	2	25580	4.9	9	1720	32220	1830	10	5300	363	15	180	1	860	12	6	36	1	1	31.9	68	1	1	1	77
25261	6.0	11990	110	9	256	.3	2	14810	2.4	8	1470	29610	1850	14	7760	212	13	300	1	910	17	4	38	1	1	48.4	54	1	1	1	72
25262	7.5	11610	1084	10	170	.7	1	20590	25.9	9	1831	32390	1570	15	6920	240	25	200	1	980	20	7	35	1	1	41.7	84	1	1	1	62
25263	8.5	10830	5458	8	154	.4	2	15790	142.6	16	1877	34080	1580	12	6860	212	39	220	1	950	13	11	27	1	1	41.0	73	1	1	1	60
25264	6.0	11180	365	8	125	.5	3	17390	4.6	9	1479	30360	2140	14	6260	260	15	290	1	950	15	7	27	1	1	36.9	55	1	1	1	75
25265	9.8	11850	115	8	106	.1	4	13710	.5	10	2412	37660	2100	14	6440	201	20	340	1	1000	47	2	22	1	1	38.0	116	1	1	1	72
25266	7.4	10970	676	9	110	.5	1	13810	16.7	9	1812	32050	2030	15	6980	202	16	300	1	1040	16	5	20	1	1	42.5	69	1	1	1	69
25267	6.8	11090	513	8	116	.3	1	13990	12.0	7	1789	29260	2150	16	8040	187	8	390	1	1000	8	3	20	1	1	50.2	55	1	1	1	61
25268	13.9	10270	5504	10	104	.6	1	19840	134.2	15	3586	37270	2100	13	5760	230	60	260	1	900	21	13	17	1	1	32.2	118	1	1	1	80
25269	9.3	10730	3021	9	132	.4	1	16690	70.4	16	2514	33620	2760	15	5890	191	24	280	1	900	27	8	16	1	1	29.8	87	1	2	1	57
25270	6.1	11520	1286	11	58	.7	1	17020	30.0	13	1535	32570	2360	17	6300	197	4	220	1	1000	31	4	15	1	1	37.4	70	1	1	1	33
25271	7.7	10500	1344	8	64	.7	2	18160	32.3	13	2157	29800	2440	14	6210	195	7	260	1	1100	21	5	14	1	1	34.1	80	1	2	1	48
25272	7.0	11180	541	7	80	.5	1	16680	12.3	9	1693	31130	2310	13	6910	203	25	330	1	1030	26	3	19	1	1	48.9	77	1	1	1	61
25273	9.2	9770	9124	7	78	.4	2	18460	224.9	17	2199	35370	2230	11	5990	222	125	270	1	980	35	17	17	1	1	37.1	85	1	1	1	64
25274	5.8	10140	1891	6	74	.4	3	18890	44.2	12	1502	33140	2170	11	5630	203	16	220	1	1000	29	10	17	1	1	32.3	58	1	1	1	64
25275	5.3	12500	642	6	84	.4	2	14640	13.9	11	1651	34260	2180	12	7650	197	18	470	1	1090	26	2	25	1	1	61.4	55	1	1	1	93
25276	9.6	10760	1288	5	63	.3	4	18320	30.2	13	1892	30770	2600	12	6430	208	42	320	1	1030	24	7	22	1	1	38.9	79	1	1	1	80
25277	7.7	10050	2629	4	34	.3	1	17890	67.0	23	1962	32800	2010	13	6410	204	14	210	1	970	19	10	16	1	1	34.5	66	1	1	1	48
25278	8.1	10810	219	5	52	.5	7	21210	4.0	10	1955	32910	1920	13	6370	311	12	240	1	1040	17	20	25	1	1	41.8	57	1	1	1	50
25279	4.2	11860	89	5	59	.4	4	15360	.1	11	732	38240	1640	15	7900	218	7	250	1	1030	16	6	18	1	1	47.6	35	1	1	1	45
25280	4.9	11300	71	5	81	.7	2	17360	4.2	10	1079	32400	1590	14	8520	271	3	250	1	1080	30	6	21	1	1	54.0	124	1	1	1	47
25281	6.0	11970	141	5	72	.6	1	17200	3.1	13	1731	33950	2010	18	9180	262	10	330	1	1120	55	13	22	1	1	60.3	52	1	1	2	52
25282	7.1	12890	189	4	106	.5	1	14040	3.5	13	2218	33980	3830	15	12120	231	2	540	1	1180	26	4	22	1	1	82.3	64	1	1	1	59
25283	13.4	26550	993	8	186	.1	5	24850	21.4	40	3648	77850	8640	27	31610	520	1	700	5	3280	6	2	45	1	1	265.6	90	1	2	2	60
25284	8.7	22770	1542	8	67	.1	3	29450	33.1	47	2363	77790	3800	28	21630	524	7	500	1	2780	6	4	40	1	1	226.5	61	2	2	1	40
25285	8.7	13680	4063	6	26	.5	4	20640	108.5	54	2558	59710	1870	16	8370	220	5	200	1	1170	14	16	9	1	1	78.6	55	1	1	1	28
25286	12.9	17160	277	6	25	.7	2	25740	5.7	23	3613	59340	1610	18	13370	350	28	200	1	1800	21	7	17	1	1	140.2	91	2	2	1	43
25287	8.9	14640	328	6	75	.6	1	21000	5.9	21	2896	46520	2100	20	12280	343	9	370	1	1270	18	7	15	1	1	112.7	75	2	1	1	28
25288	7.2	18200	60	6	33	.6	3	20670	1.7	21	2019	53110	2040	22	13070	340	15	960	1	1540	21	6	24	1	1	132.1	60	2	1	1	19
25289	5.4	19020	1868	6	31	.7	2	19400	49.6	31	1264	55270	2160	23	16620	349	4	1000	1	2230	6	3	25	1	1	160.2	50	2	2	2	18
25290	3.4	13950	9022	4	37	.7	2	20860	244.0	52	747	45980	1490	15	12320	334	7	260	1	1360	25	15	14	1	1	117.8	46	2	1	2	22
25291	5.1	16130	5886	5	54	.4	2	23320	154.7	44	1157	50620	2420	20	17640	439	9	430	1	1450	31	7	20	1	1	140.0	55	2	2	1	24
25292	6.1	22840	5889	6	40	.1	2	26780	155.8	35	1290	67230	2470	29	27500	571	9	1420	9	2660	8	10	54	1	1	213.5	49	1	3	1	37
25293	5.4	24130	2042	7	54	.1	5	25770	49.8	35	1021	69090	2460	23																	

COMP: COLUMBIA GOLD MINES
 PROJ: SPECTRUM
 ATTN: WAYNE ROBERTS

MIN-EN LABS — ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7N 1T2
 (604)980-5814 OR (604)988-4524

FILE NO: 0V-1576-RJ
 DATE: 90/11/2/
 * CORE * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SH PPM	W PPM	CR PPM
25294	4.5	25300	1295	28	79	.1	5	21320	33.3	39	774	63870	1220	23	19170	346	2	3040	14	2710	26	1	94	1	1	177.5	33	1	2	1	28
25295	8.7	23580	1	19	115	.1	4	20320	.1	37	1686	73590	6280	22	28910	478	7	1050	5	2870	5	1	45	1	1	244.7	61	1	2	1	39
25296	5.3	23810	1	17	153	.1	8	21360	.1	38	897	70720	6930	20	25630	459	7	2020	5	2760	6	1	64	1	1	212.6	42	1	1	1	34
25297	6.3	20400	7	15	118	.1	6	24620	.1	38	1069	71660	5210	20	24790	661	1	1310	10	2600	25	23	56	1	1	190.3	50	1	1	1	30
25298	5.6	23150	1	17	156	.1	7	21820	.1	33	892	73290	6550	20	28360	583	9	1440	3	2530	12	2	63	1	1	209.8	42	1	2	1	32
25299	4.7	24150	1405	16	110	.1	5	21600	26.6	34	623	70110	3910	20	29440	609	3	1300	1	2680	6	1	77	1	1	217.3	31	1	1	1	32
25300	5.4	22860	71	15	67	.1	6	48970	.1	34	644	65100	1730	22	23670	1698	1	1190	14	2190	183	116	60	1	1	190.9	163	2	3	2	55
25301	5.6	31520	1	15	143	.1	8	25970	.1	39	787	72560	4830	24	25820	664	1	3370	1	2540	4	9	105	1	1	226.7	32	2	2	1	25
25302	5.5	32140	1	16	92	.1	7	34210	.1	38	857	73480	3860	32	31220	929	1	2490	15	2570	7	1	90	1	1	250.0	42	1	3	2	82
25303	4.8	24740	1	15	138	.2	5	28250	.1	30	833	65820	7240	26	31180	706	12	1100	6	2840	8	1	47	1	1	248.5	45	1	3	1	46
25304	4.6	35450	1	14	183	.3	4	27830	.1	33	675	68470	10140	27	35100	699	2	2800	13	2420	17	1	85	1	1	244.7	45	1	2	2	90
25305	6.6	26090	193	14	119	.5	3	48310	11.1	26	560	59470	6420	26	28670	2079	9	960	19	1830	185	37	51	1	1	183.1	824	2	4	1	78
25306	4.5	24550	1	13	136	.1	8	26440	.1	33	584	64980	5400	17	24820	794	1	2180	7	2700	15	1	67	1	1	198.6	213	1	2	1	35
25307	5.5	33920	1	18	134	.1	4	27980	.1	34	653	72780	8440	30	34060	1130	1	2360	25	2000	54	5	82	1	1	210.7	339	1	3	2	106
25308	4.3	35170	1	14	223	.1	6	28320	.1	30	570	61280	10260	19	31880	844	1	2730	25	1940	14	1	104	1	1	211.8	77	1	2	2	92
25309	4.5	37740	1	17	240	.1	7	27480	.1	31	448	60020	11620	16	31870	699	1	2080	19	2110	27	1	99	1	1	213.7	69	1	3	2	91
25310	4.0	28730	1	16	115	.2	4	45400	.1	25	493	53130	5990	29	27920	1296	1	1530	23	2180	9	2	62	1	1	212.1	49	2	2	2	115
25311	4.6	22480	1	15	128	.1	5	28180	.1	21	327	47160	6840	20	23600	809	1	1130	5	2040	25	1	46	1	1	197.6	51	1	1	1	52
25312	4.2	24450	162	18	109	.2	3	35790	1.2	20	322	48170	8660	17	23620	1760	1	490	14	2400	45	22	39	1	1	158.7	85	2	2	1	32
25313	4.1	27490	49	15	182	.1	5	28000	.1	37	474	65160	9500	21	36030	1022	1	1070	194	2250	4	1	54	1	1	210.8	82	1	3	4	375
25314	3.6	27350	293	17	74	.1	4	35980	.1	46	554	71790	7470	23	30540	1250	1	410	448	1800	15	12	44	1	1	178.1	114	1	4	7	768
25315	2.7	19580	101	17	74	.5	4	33970	.1	33	431	58640	5370	21	15830	1059	3	360	57	2510	27	25	39	1	1	150.7	33	2	2	1	115



MIN-EN LABORATORIES
(DIVISION OF ASSAYERS CORP.)

OCT 17 1990

VANCOUVER OFFICE:
705 WEST 15TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
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SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

Assay Certificate

OV-1590-RA1

Company: **COLUMBIA GOLD MINES**
Project: **SPECTRUM**
Attn: **W.J. ROBERTS**

Date: **OCT-12-90**
Copy 1. **COLUMBIA GOLD MINES, VANCOUVER, B.C.**

He hereby certify the following Assay of 24 ROCK samples submitted OCT-10-90 by J.J. HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
25316	.21	.006
25317	.22	.006
25318	.20	.006
25319	.05	.001
25320	.04	.001

25321	.20	.006
25322	.03	.001
25323	.07	.002
25324	.68	.020
25325	.21	.006

25326	.08	.002
25327	.18	.005
25328	.40	.012
25329	.22	.006
25330	.09	.003

25331	.08	.002
25332	.10	.003
25333	.24	.007
25334	.11	.003
25335	.20	.006

25336	.02	.001
25337	.05	.001
25338	.02	.001
25339	.03	.001

90-61

Certified by _____

MIN-EN LABORATORIES



MIN-EN LABORATORIES
(DIVISION OF ASSAYERS CORP.)

OCT 17 1990

VANCOUVER OFFICE:
705 WEST 15TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
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CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

Assay Certificate OV-1590-RA2

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W.J. ROBERTS

Date: OCT-12-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 24 ROCK samples submitted OCT-10-90 by J.J. HYLANDS.

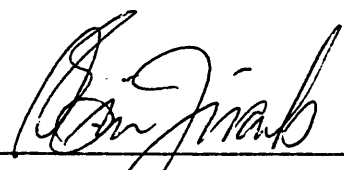
Sample Number	AU g/tonne	AU oz/ton
25340	.08	.002
25341	.07	.002
25342	.02	.001
25343	.05	.001
25344	.04	.001

25345	.05	.001
25346	.03	.001
25347	.04	.001
25348	.02	.001
25349	.01	.001

25350	.01	.001
25351	.02	.001
25352	.03	.001
25353	.02	.001
25354	.01	.001

25355	.01	.001
25356	.04	.001
25357	.02	.001
25358	.09	.003
25359	.07	.002

25360	.02	.001
25361	.04	.001
25362	.05	.001
25363	.04	.001

Certified by 

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OCT 17 1990

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 FAX (604) 980-9621

THUNDER BAY LAB.:
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 FAX (807) 623-5931

SMITHERS LAB.:
 TELEPHONE/FAX (604) 847-3004

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Assay Certificate

OV-1590-RA3

Company: COLUMBIA GOLD MINES
 Project: SPECTRUM
 Attn: W.J. ROBERTS

Date: OCT-12-90
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 11 ROCK samples submitted OCT-10-90 by J.J. HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
25364	.01	.001
25365	.02	.001
25366	.07	.002
25367	.16	.005
25368	.01	.001
25369	.02	.001
25370	.01	.001
25371	.05	.001
25372	.02	.001
25373	.01	.001
25374	.02	.001

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SMITHERS LAB.:
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Geochemical Analysis Certificate

OV-1590-RG1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W.J. ROBERTS

Date: OCT-12-90

Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 24 CORE samples submitted OCT-10-90 by J.J. HYLANDS.

Sample Number	CU PPM
25316	153
25317	170
25318	171
25319	190
25320	202

25321	190
25322	142
25323	165
25324	232
25325	260

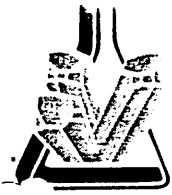
25326	85
25327	180
25328	212
25329	245
25330	218

25331	195
25332	143
25333	186
25334	140
25335	137

25336	80
25337	149
25338	150
25339	134

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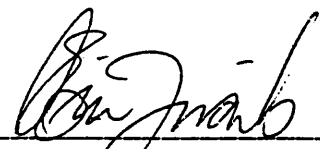
OV-1590-RG2

Company: COLUMBIA GOLD MINES
 Project: SPECTRUM
 Attn: W.J. ROBERTS

Date: OCT-12-90
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 24 CORE samples submitted OCT-10-90 by J.J. HYLANDS.

Sample Number	CU PPM
25340	56
25341	91
25342	95
25343	58
25344	335
25345	170
25346	241
25347	272
25348	131
25349	63
25350	142
25351	151
25352	90
25353	178
25354	93
25355	96
25356	47
25357	70
25358	170
25359	113
25360	94
25361	118
25362	184
25363	139

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Geochemical Analysis Certificate

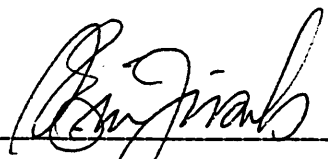
OV-1590-RG3

Company: **COLUMBIA GOLD MINES**
 Project: **SPECTRUM**
 Attn: **W.J. ROBERTS**

Date: **OCT-12-90**
 Copy 1. **COLUMBIA GOLD MINES, VANCOUVER, B.C.**

We hereby certify the following Geochemical Analysis of 11 CORE samples submitted OCT-10-90 by J.J. HYLANDS.

Sample Number	CU PPM
25364	121
25365	101
25366	120
25367	147
25368	113
25369	90
25370	75
25371	110
25372	183
25373	132
25374	76

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Assay Certificate

OV-1589-RA1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W.J. ROBERTS

Date: OCT-13-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

He hereby certify the following Assay of 24 ROCK samples
submitted OCT-10-90 by J.J. HYLANDS.

90-62

Sample Number	AU g/tonne	AU oz/ton
25375	.18	.005
25376	.24	.007
25377	.02	.001
25378	.02	.001
25379	.04	.001
25380	.04	.001
25381	.03	.001
25382	.01	.001
25383	.07	.002
25384	.24	.007
25385	.28	.008
25386	.22	.006
25387	1.26	.037
25388	.48	.014
25389	.10	.003
25390	.08	.002
25391	.17	.005
25392	.02	.001
25393	.27	.008
25394	.62	.018
25395	.17	.005
25396	.08	.002
25397	.14	.004
25398	.06	.002

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Assay Certificate

OV-1589-RA2

Company: COLUMBIA GOLD MINES
 Project: SPECTRUM
 Attn: W.J. ROBERTS

Date: OCT-13-90
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 24 ROCK samples
 submitted OCT-10-90 by J.J. HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
25399	.18	.005
25400	.10	.003
25401	.11	.003
25402	.12	.004
25403	.15	.004
25404	.10	.003
25405	.05	.001
25406	.03	.001
25407	.02	.001
25408	.03	.001
25409	.02	.001
25410	.01	.001
25411	.02	.001
25412	.01	.001
25413	.07	.002
25414	.16	.005
25415	.02	.001
25416	.01	.001
25417	.03	.001
25418	.02	.001
25419	.02	.001
25420	.01	.001
25421	.01	.001
25422	.02	.001

Certified by _____

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 FAX (807) 623-5931

SMITHERS LAB.:
 TELEPHONE/FAX (604) 847-3004

Assay Certificate

OV-1589-RA3

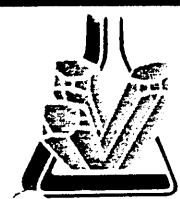
Company: COLUMBIA GOLD MINES
 Project: SPECTRUM
 Attn: W.J. ROBERTS

Date: OCT-12-90
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 4 ROCK samples submitted OCT-10-90 by W.ROBERTS.

Sample Number	AU g/tonne	AU oz/ton
25423	.02	.001
25424	.01	.001
25425	.10	.003
25426	.03	.001

Certified by *Ben Smith*
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SMITHERS LAB.:

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Geochemical Analysis Certificate

OV-1589-RG1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W.J. ROBERTS

Date: OCT-12-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 24 ROCK samples submitted OCT-10-90 by W.ROBERTS.

Sample Number	CU PPM
25375	141
25376	357
25377	184
25378	162
25379	338
25380	334
25381	136
25382	102
25383	364
25384	227
25385	132
25386	81
25387	144
25388	157
25389	164
25390	171
25391	132
25392	140
25393	200
25394	182
25395	141
25396	139
25397	150
25398	94

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Geochemical Analysis Certificate

OV-1589-RG2

Company: **COLUMBIA GOLD MINES**
Project: **SPECTRUM**
Attn: **W.J. ROBERTS**

Date: **OCT-12-90**
Copy 1. **COLUMBIA GOLD MINES, VANCOUVER, B.C.**

We hereby certify the following Geochemical Analysis of 24 ROCK samples submitted OCT-10-90 by W.ROBERTS.

Sample Number	CU PPM
25399	135
25400	126
25401	102
25402	80
25403	71
25404	59
25405	110
25406	46
25407	70
25408	79
25409	63
25410	61
25411	70
25412	96
25413	50
25414	61
25415	82
25416	185
25417	121
25418	114
25419	130
25420	144
25421	58
25422	97

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Geochemical Analysis Certificate

OV-1589-RG3

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W.J. ROBERTS

Date: OCT-12-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 4 CORE samples submitted OCT-10-90 by W.ROBERTS.

Sample Number	CU PPM
25423	90
25424	91
25425	105
25426	180

Certified by _____

[Signature]
MIN-EN LABORATORIES

APPENDIX F
ANALYTICAL CERTIFICATES
ROCK SAMPLES



Geochemical Analysis Certificate

OS-0206-RG1


Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W. ROBERTS

Date: AUG-03-90

Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.
2. COLUMBIA GOLD MINES, C/O MIN-EN LABS

We hereby certify the following Geochemical Analysis of 30 ROCK samples submitted JUL-26-90 by W. ROBERTS.

Sample Number	AU-WET PPB
24001	25
24002	1450
24003	330
24004	740
24005	590
24006	195
24007	135
24008	300
24009	310
24010	125
24011	110
24012	65
24013	100
24014	430
24015	95
24016	270
24017	60
24018	10
24019	50
24020	85
24021	5
24022	100
24023	1500
24024	10
24025	5
24026	5
24027	30
24028	65
24029	1800
24030	95

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TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Geochemical Analysis Certificate

OS-0206-RG2

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W.ROBERTS

Date: AUG-03-90

Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.
2. COLUMBIA GOLD MINES, C/O MIN-EN LABS

We hereby certify the following Geochemical Analysis of 30 ROCK samples submitted JUL-26-90 by W.ROBERTS.

Sample Number	AU-WET PPB
24031	310
24032	40
24033	5
24034	50
24035	5
24036	15
24037	90
24038	195
24039	5
24040	10
24041	480
24042	230
24043	75
24044	290
24045	560
24046	75
24047	30
24048	100
24049	135
24050	90
24051	25
24052	80
24053	4900
24054	40
24055	5
24056	1250
24057	30
24058	5
24059	5
24060	1650

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Geochemical Analysis Certificate

OS-0206-RG3

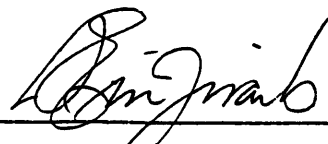
Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W. ROBERTS

Date: AUG-03-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.
2. COLUMBIA GOLD MINES, C/O MIN-EN LABS

We hereby certify the following Geochemical Analysis of 30 ROCK samples submitted JUL-26-90 by W. ROBERTS.

Sample Number	AU-WET PPB
24061	4250
24062	5100
24063	35
24064	100000
24065	800
24066	320
24067	100
24068	410
24069	25
24070	5
24071	35
24072	5
24073	5
24074	5
24075	5
24076	10
24077	5
24078	5
24101	60
24102	590
24103	70
24104	95
24105	90
24106	700
24107	40
24108	40
24109	180
24110	390
24111	30
24112	790

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Geochemical Analysis Certificate

0S-0206-RG4

Company: **COLUMBIA GOLD MINES**
Project: **SPECTRUM**
Attn: **W. ROBERTS**

Date: **AUG-03-90**

Copy 1. **COLUMBIA GOLD MINES, VANCOUVER, B.C.**
2. **COLUMBIA GOLD MINES, C/O MIN-EN LABS**

We hereby certify the following Geochemical Analysis of 27 ROCK samples submitted JUL-26-90 by W.ROBERTS.

Sample Number	AU-WET PPB
24113	4000
24114	200
24115	220
24116	130
24117	230
24118	110
24119	520
24120	550
24121	690
24122	330
24123	310
24124	600
24125	250
24126	2700
24127	230
24128	160
24129	140
24130	230
24131	250
24132	170
24133	480
24134	350
24135	180
24136	125
24137	210
24138	560
24139	200

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TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Assay Certificate

OS-0206-RA1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W. ROBERTS

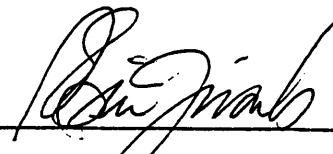
Date: AUG-03-90

Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.
2. COLUMBIA GOLD MINES, C/O MIN-EN LABS

We hereby certify the following Assay of 11 ROCK samples
submitted JUL-26-90 by W. ROBERTS.

Sample Number	AU g/tonne	AU oz/ton
24002	2.35	.069
24023	1.39	.041
24029	2.02	.059
24053	5.10	.149
24056	1.62	.047
24060	1.97	.057
24061	5.43	.158
24062	4.69	.137
24064	202.75	5.914
24113	3.18	.093
4126	3.80	.111

Certified by



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Metallic Assay Certificate

OS-0206-RM1

Company: COLUMBIA GOLD
Project:
Attn: W. ROBERTS

Date: AUG-30-90
Copy 1. COLUMBIA GOLD, VANCOUVER, B.C.
2. COLUMBIA GOLD, C/O MIN-EN LABS

We hereby certify the following Metallic Assay of 23 REJECT samples submitted AUG-28-90 by W.ROBERTS.

Sample Number	* Total * * Wt (g) * Wt (g) *		* Assay Value Au * * +120(g/t) -120(g/t) *		* Total Weight Au * * +120(mg) -120(mg) *		* Metallic Au * * (oz/ton) (g/t) *		* Net Au * * (oz/ton) (g/t) *	
	24028	2202.30	22.30	.02	.12	0.000	0.252	0.000	0.00	0.003
24029	2974.20	24.20	13.14	1.46	0.318	4.307	0.003	0.11	0.045	1.56
24030	2630.20	60.20	.05	.19	0.003	0.488	0.000	0.00	0.005	0.19
24031	2259.38	114.38	.13	.34	0.015	0.729	0.000	0.01	0.010	0.33
24032	2341.70	31.70	.18	.10	0.006	0.231	0.000	0.00	0.003	0.10
24033	2353.30	38.30	.07	.07	0.003	0.162	0.000	0.00	0.002	0.07
24034	2860.22	20.22	.02	.06	0.000	0.170	0.000	0.00	0.002	0.06
24035	2781.12	46.12	.02	.08	0.001	0.219	0.000	0.00	0.002	0.08
24036	2109.52	14.32	.02	.10	0.000	0.209	0.000	0.00	0.003	0.10
24037	2018.93	18.93	.06	.24	0.001	0.460	0.000	0.00	0.007	0.24
24038	2278.16	13.16	.07	.31	0.001	0.702	0.000	0.00	0.009	0.31
24039	2568.40	13.40	1.12	.10	0.015	0.255	0.000	0.01	0.003	0.11
24040	2178.05	58.05	.01	.02	0.001	0.042	0.000	0.00	0.001	0.02
24041	1655.36	25.36	1.92	1.64	0.049	2.673	0.001	0.03	0.048	1.64
24042	1763.39	33.39	.17	.42	0.006	0.727	0.000	0.00	0.012	0.42
24043	2500.03	30.03	.15	.10	0.005	0.247	0.000	0.00	0.003	0.10
24044	2514.90	14.90	.06	.61	0.001	1.525	0.000	0.00	0.018	0.61
24045	2304.78	29.78	.75	.93	0.022	2.116	0.000	0.01	0.027	0.93
24046	2162.17	32.17	.10	.20	0.003	0.425	0.000	0.00	0.006	0.20
24047	2485.84	20.84	.03	.10	0.001	0.246	0.000	0.00	0.003	0.10
24048	1727.17	27.17	.07	.20	0.002	0.340	0.000	0.00	0.006	0.20
24049	2268.01	23.01	.10	.30	0.002	0.673	0.000	0.00	0.009	0.30
24050	2048.10	33.10	.15	.18	0.005	0.363	0.000	0.00	0.005	0.18

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Geochemical Analysis Certificate

OS-0213-RG1

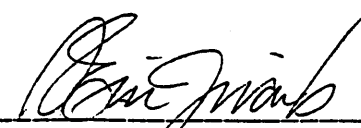
Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: AUG-06-90

Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 ROCK samples submitted JUL-31-90 by WAYNE ROBERTS.

Sample Number	AU-WET PPB
24079	7000
24080	430
24081	500
24082	140
24083	355
24084	60
24085	200
24086	325
24087	80
24088	180
39	130
24090	85
24091	155
24092	350
24093	160
24094	300
24095	295
24096	5
24097	3050
24098	3310
24099	305
24100	45
24201	5
24202	5
24203	350
24204	9
24205	30
24206	35
24207	25
24208	30

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TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Geochemical Analysis Certificate

OS-0213-SG3

Company: COLUMBIA GOLD MINES LTD.
Project: SPECTRUM
Attn: W. ROBERTS

Date: AUG-08-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.
2. COLUMBIA GOLD MINES, C/O MIN-EN LABS

We hereby certify the following Geochemical Analysis of 6 ROCK samples submitted JUL-30-90 by W. ROBERTS.

Sample Number	AU-WET PPB
24170	75
24171	75
24172	100
24173	1200
24174	110
24175	60

Certified by *[Signature]*

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TELEX: VIA U.S.A. 7601087 • FAX (604) 980-9621

TIMMINS OFFICE:
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P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Assay Certificate

OS-0213-RA1

Company: COLUMBIA GOLD MINES LTD.
Project: SPECTRUM
Attn: W. ROBERTS

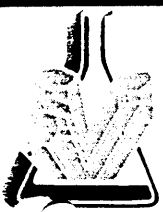
Date: AUG-08-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.
2. COLUMBIA GOLD MINES, C/O MIN-EN LABS

We hereby certify the following Assay of 6 ROCK samples
submitted JUL-30-90 by W. ROBERTS.

Sample Number	AU	AU
	g/tonne	oz/ton
24079	7.62	.222
24097	3.00	.088
24098	3.76	.110
24141	2.43	.071
24143	.80	.023
<hr/>		
24173	1.37	.040

Certified by

MIN-EN LABORATORIES



Geochemical Analysis Certificate

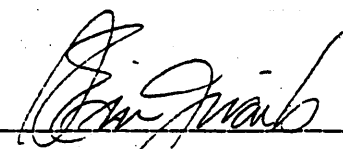
OS-0213-RG2

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: AUG-05-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 ROCK samples submitted JUL-31-90 by WAYNE ROBERTS.

Sample Number	AU-WET PPB
24140	320
24141	1950
24142	550
24143	1050
24144	870
24145	490
24146	150
24147	95
24148	5
24149	10
24150	10
24151	25
24152	5
24153	5
24154	130
24155	45
24156	30
24157	10
24158	160
24159	15
24160	50
24161	75
24162	70
24163	490
24164	55
24165	50
24166	15
24167	160
24168	10
24169	5

Certified by 

Geochemical Analysis Certificate OS-0223-RG1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W. ROBERTS

Date: AUG-09-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.
2. COLUMBIA GOLD MINES, C/O MIN-EN LABS

We hereby certify the following Geochemical Analysis of 30 ROCK samples submitted JUL-31-90 by W. ROBERTS.

Sample Number	AU-WET PPB
24176	7000
24177	10000
24178	40000
24179	190
24180	160
24181	190
24182	750
24183	250
24184	1000
24185	370
24186	100
24187	1100
24188	2200
24189	1300
24190	260
24191	600
24192	480
24193	60
24194	130
24195	4000
24196	2500
24197	1600
24198	5
24199	5
24209	130
24210	40
24211	90
24212	5
24213	10
24214	170

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Geochemical Analysis Certificate OS-0223-RG2

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W.ROBERTS

Date: AUG-09-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.
2. COLUMBIA GOLD MINES, C/O MIN-EN LABS

He hereby certify the following Geochemical Analysis of 17 ROCK samples submitted JUL-31-90 by W.ROBERTS.

Sample Number	AU-WET PPB
24215	60
24216	25
24217	40
24218	80
24219	10
24220	55
24221	40
24222	1750
24223	160
24224	220
24225	325
24226	5
24227	5
24228	10
24229	80
24230	115
24231	155

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TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Assay Certificate

OS-0223-RA1

Company: **COLUMBIA GOLD MINES**
Project: **SPECTRUM**
Attn: **W. ROBERTS**

Date: **AUG-09-90**
Copy 1. **COLUMBIA GOLD MINES, VANCOUVER, B.C.**
2. **COLUMBIA GOLD MINES, C/O MIN-EN LABS**

We hereby certify the following Assay of 11 ROCK samples submitted JUL-31-90 by W.ROBERTS.

Sample Number	AU g/tonne	AU oz/ton
24176	7.25	.211
24177	11.80	.344
24178	52.40	1.528
24184	1.15	.034
24187	1.42	.041
24188	2.37	.069
24189	1.29	.038
24195	5.20	.152
24196	2.50	.073
24197	1.84	.054
24222	2.14	.062

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THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OS-0234-RG1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: AUG-20-90

Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 22 ROCK samples submitted AUG-02-90 by WAYNE ROBERTS.

Sample Number	AU-WET PPB
24551	30
24552	345
24553	240
24554	20
24555	100
24556	110
24557	5
24558	40
24559	180
24560	60
361	50
24562	380
24563	65
24564	940
24565	180
24566	40
24567	80
24568	240
24569	305
24570	100
24571	1200
24200	95

Certified by

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COMP: COLUMBIA GOLD MINES
 PROJ: SPECTRUM
 ATTN: W.ROBERTS

MIN-EN LABS — ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

FILE NO: OS-0234-RJ1
 DATE: 90/08/08
 * ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPM
24551	2.7	29140	1	7	57	.1	5	12560	.1	28	176	60110	4510	24	15710	594	1	1980	1	2610	25	5	55	1	1	196.2	135	3	1	2	1	30
24552	1.3	21090	1	7	26	.1	2	5920	.1	37	183	63940	4080	13	6830	520	1	580	1	2420	25	2	14	1	1	120.2	34	2	1	1	1	345
24553	2.5	17540	1	5	48	.1	6	8400	.1	30	162	69380	2840	15	9950	524	1	1200	1	2350	18	1	23	1	1	204.0	28	1	1	2	1	240
24554	2.7	20500	1	5	40	.1	7	10800	.1	20	87	51930	2250	20	16150	588	1	1410	1	2960	16	1	24	1	1	229.5	20	5	1	3	1	20
24555	6.5	21750	271	6	32	.1	8	10380	.1	28	218	64630	2350	17	13880	817	1	1380	1	2300	487	1	22	1	1	258.2	103	2	1	4	18	100
24556	5.8	20560	405	7	31	.1	7	8600	.1	24	188	72280	2190	15	17970	646	1	1180	1	2060	562	1	17	1	1	206.6	169	2	1	4	20	110
24557	3.5	25870	1	7	30	.1	9	10590	.1	30	251	66080	2040	20	22170	1095	1	1520	1	1420	28	1	18	1	1	280.5	284	1	1	5	31	5
24558	3.9	22510	1	7	46	.1	10	9150	.1	33	218	60090	2810	17	15830	1044	1	1540	1	1370	32	5	19	1	1	226.5	101	1	1	4	15	40
24559	5.2	21940	505	7	26	.1	8	9360	.1	23	193	61200	2280	19	19640	988	1	880	1	2070	305	10	14	1	1	219.1	197	1	1	3	5	180
24560	3.5	21270	1	6	43	.1	8	9610	.1	24	92	61050	2560	21	18990	750	1	1180	1	2290	70	1	19	1	1	189.3	150	1	1	3	6	60
24561	3.1	20860	1	7	57	.1	9	9700	.1	25	71	75120	3090	20	18250	693	1	1840	1	2730	18	1	19	1	1	245.8	70	2	1	3	1	50
24562	1.2	21160	146	9	72	.1	3	5100	.1	12	166	81320	4990	14	15600	232	1	1590	1	2040	16	5	41	1	1	179.0	28	1	1	1	1	380
24563	.9	17430	30	8	95	.1	2	5970	.1	12	54	61390	7810	11	11830	231	3	1410	1	2230	14	1	50	1	1	146.8	12	2	1	1	1	65
24564	1.2	18960	54	14	65	.1	4	2660	.1	13	112	92030	5280	13	12970	245	1	1310	1	2480	16	1	32	1	1	194.5	11	1	1	1	1	940
24565	.7	17330	41	8	92	.1	2	2220	.1	10	95	80850	5920	10	10890	204	1	1200	1	2020	19	1	47	1	1	153.6	10	2	1	1	1	180
24566	1.7	17150	1	7	87	.1	4	7140	.1	16	93	73000	4950	14	14830	299	1	1480	1	1850	16	1	40	1	1	172.4	23	1	1	1	1	40
24567	2.0	23200	82	10	71	.1	5	7850	.1	14	164	81110	4590	14	17000	305	1	1340	1	2650	15	8	46	1	1	195.6	18	1	1	1	1	80
24568	3.7	23260	1	7	51	.1	10	24160	.1	17	109	71710	2750	21	23290	770	1	1460	1	2640	16	1	20	1	1	245.0	23	1	1	2	1	240
24569	1.3	22520	28	9	51	.1	3	4080	.1	14	154	108450	3010	17	19560	371	1	810	1	2000	72	1	13	1	1	217.1	17	1	1	1	1	305
24570	3.0	25410	1	10	47	.1	5	5920	.1	14	84	96550	3970	21	22850	509	1	650	1	3880	119	1	24	1	1	233.2	23	1	1	1	1	100
24571	5.2	17110	104	6	61	.1	3	5110	.1	11	38	53500	6800	8	9740	245	1	800	1	1960	208	1	14	1	1	102.1	38	1	1	1	1	1200
24200	2.3	15850	1	7	54	.1	7	8330	.1	18	78	70790	4630	12	8280	221	1	1130	1	3150	16	1	25	1	1	227.4	26	1	1	2	1	95



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THUNDER BAY LAB.:
 TELEPHONE (807) 622-8958
 FAX (807) 623-5931

SMITHERS LAB.:
 TELEPHONE/FAX (604) 847-3004

Assay Certificate

OS-0234-RA1

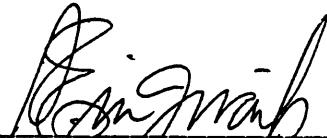
Company: COLUMBIA GOLD MINES
 Project: SPECTRUM
 Attn: W. ROBERTS

Date: AUG-08-90
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.
 2. COLUMBIA GOLD MINES, C/O MIN-EN LABS

We hereby certify the following Assay of 1 ROCK samples
 submitted AUG-02-90 by W. ROBERTS.

Sample Number	*AU g/tonne	*AU oz/ton
24571	1.50	.044

*AU - 1 ASSAY TON

Certified by 

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FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

0S-0273-RG1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: AUG-20-90

Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.
2. COLUMBIA GOLD MINES, C/O MIN-EN LABS.

We hereby certify the following Geochemical Analysis of 30 ROCK samples submitted AUG-12-90 by WAYNE ROBERTS.

Sample Number	AU-WET PPB	CU PPM
24251	80	
24252	945	
24253	140	
24254	490	
24255	240	
24256	305	
24257	165	
24258	10600	
24259	865	
24260	35	
24261	3000	
24351	310	
24352	95	
24353	810	
24354	425	
24355	800	
24356	445	
24357	120	
24358	240	
24359	55	
24360	65	
24361	60	
24362	105	
24501	480	785
24502	325	725
24503	340	610
24504	210	500
24505	180	
24506	65	
24507	80	

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SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

~~Geochemical Analysis Certificate~~

OS-0273-RG2

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: AUG-20-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.
2. COLUMBIA GOLD MINES, C/O MIN-EN LABS.

We hereby certify the following Geochemical Analysis of 30 ROCK samples submitted AUG-12-90 by WAYNE ROBERTS.

Sample Number	AU-WET PPB
24508	85
24509	185
24510	325
24511	85
24512	140
24513	215
24514	185
24515	195
24516	145
24517	220
24518	150
24519	185
24520	185
24521	125
24522	85
24523	120
24524	3050
24572	165
24573	200
24574	160
24575	205
24576	210
24577	180
24578	180
24579	220
24580	195
24581	1650
24582	410
24583	630
24584	655

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SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OS-0273-RG3

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: AUG-20-90

Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.
2. COLUMBIA GOLD MINES, C/O MIN-EN LABS.

He hereby certify the following Geochemical Analysis of 16 ROCK samples submitted AUG-12-90 by WAYNE ROBERTS.

Sample Number	AU-WET PPB
24585	1050
24586	1750
24587	540
24588	390
24589	80

24590	125
24591	440
24592	370
24593	910
24594	745

24595	360
24596	400
24597	105
24598	275
24599	65

24600	80

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[Handwritten Signature]
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SMITHERS LAB.:
 TELEPHONE/FAX (604) 847-3004

Assay Certificate

OS-0273-RA1

Company: **COLUMBIA GOLD MINES**
 Project: **SPECTRUM**
 Attn: **WAYNE ROBERTS**

Date: **AUG-20-90**

Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.
 2. COLUMBIA GOLD MINES, C/O MIN-EN LABS.

We hereby certify the following Assay of 6 ROCK samples submitted AUG-12-90 by WAYNE ROBERTS.

Sample Number	AU g/tonne	AU oz/ton
24258	11.80	.344
24261	2.93	.085
24524	4.13	.120
24581	1.52	.044
24585	1.10	.032
24586	1.96	.057

Certified by _____

[Handwritten Signature]
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FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OS-0274-RG1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W.ROBERTS

Date: AUG-18-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.
2. COLUMBIA GOLD MINES, C/O MIN-EN LABS

He hereby certify the following Geochemical Analysis of 8 ROCK samples submitted AUG-12-90 by W.ROBERTS.

Sample Number	AU-WET PPB
24363	35
24364	55
24365	5
24366	5
24367	5
24368	5
24369	5
24370	5

AUG 20 1990

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FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OS-0275-RG2

Company: COLUMBIA GOLD MINES LTD.
Project: SPECTRUM
Attn: W. ROBERTS

Date: AUG-18-90

Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.
2. COLUMBIA GOLD MINES, C/O MIN-EN LABS

He hereby certify the following Geochemical Analysis of 30 ROCK samples submitted AUG-11-90 by J.J. HYLANDS.

Sample Number	AU-FIRE PFB
24262	605
24263	1040
24264	1060
24268	253
24269	1180

24270	3180
24271	1190
24371	510
24372	126
24373	37

24374	62
24375	59
24376	43
24377	105
24378	68

24381	56
24382	123
24383	138
24384	44
24385	49

24386	217
24387	2150
24388	263
24389	175
24390	418

24391	266
24392	43
24393	38
24394	109
24395	1540

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 TELEPHONE (807) 622-8958
 FAX (807) 623-5931

SMITHERS LAB.:
 TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OS-0275-RG3

Company: COLUMBIA GOLD MINES LTD.
 Project: SPECTRUM
 Attn: W. ROBERTS

Date: AUG-18-90
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.
 2. COLUMBIA GOLD MINES, D/D MIN-EN LABS

We hereby certify the following Geochemical Analysis of 11 ROCK samples submitted AUG-11-90 by J.J.HYLANDS.

Sample Number	AU-FIRE PPB
24396	42
24397	3
24398	1750
24399	23
24400	39

24401	2
24402	193
24403	48
24404	10
24405	61

24406	2
24407	34

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THUNDER BAY LAB.:
 TELEPHONE (807) 622-8958
 FAX (807) 623-5931

SMITHERS LAB.:
 TELEPHONE/FAX (604) 847-3004

Assay Certificate OS-0275-RA1

Company: COLUMBIA GOLD MINES LTD.
 Project: SPECTRUM
 Attn: W. ROBERTS

Date: AUG-18-90
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.
 2. COLUMBIA GOLD MINES, C/O MIN-EN LABS

We hereby certify the following Assay of 3 ROCK samples submitted AUG-11-90 by J.J.HYLANDS.

Sample Number	AU g/tonne	AU oz/ton	ZN %
24372	2.44	.071	1.28
24379	1.21	.035	.56
24380	2.51	.073	.92

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SMITHERS LAB.:
 TELEPHONE/FAX (604) 847-3004

Assay Certificate

OS-0275-RA2

Company: COLUMBIA GOLD MINES LTD.
 Project: SPECTRUM
 Attn: W. ROBERTS

Date: AUG-18-90

Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.
 2. COLUMBIA GOLD MINES, C/O MIN-EN LABS

We hereby certify the following Assay of 8 ROCK samples
 submitted AUG-11-90 by J.J.HYLANDS.

Sample Number	AU g/tonne	AU oz/ton
24263	1.29	.038
24264	1.18	.034
24269	1.27	.037
24270	3.20	.093
24271	1.19	.035

24387	2.24	.065
24395	1.57	.046
24398	1.83	.053

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FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Metallc Assay Certificate

OS-0275-RM1

Company: COLUMBIA GOLD MINES LTD.
Project: SPECTRUM
Attn: W.ROBERTS

Date: SEP-05-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.
2. COLUMBIA GOLD MINES, C/O MIN-EN LABS

We hereby certify the following Metallc Assay of 8 METALLIC samples submitted AUG-11-90 by J.J.HYLANDS.

Sample Number	* Total * +120 M *		Assay Value Au		* Total Weight Au *		Metallic Au		* Net Au	
	* Wt (g) *	* Wt (g) *	+120(g/t)	-120(g/t)	+120(mg)	-120(mg)	(oz/ton)	(g/t)	(oz/ton)	(g/t)
24243	* 2244.79 *	* 34.79 *	1.89	1.03	* 0.066	2.297 *	0.001	0.03	* 0.030	1.04
24244	* 2619.16 *	* 34.16 *	.70	1.11	* 0.038	2.847 *	0.000	0.01	* 0.032	1.10
24249	* 1636.31 *	* 41.31 *	46.62	1.86	* 1.926	2.967 *	0.034	1.18	* 0.087	2.99
24270	* 1879.13 *	* 39.13 *	27.14	4.32	* 1.062	7.949 *	0.016	0.57	* 0.140	4.90
24271	* 1411.19 *	* 41.19 *	4.71	.96	* 0.194	1.315 *	0.004	0.14	* 0.031	1.07
24395	* 1570.58 *	* 105.58 *	.13	1.09	* 0.014	1.597 *	0.000	0.01	* 0.030	1.03
24398	* 1195.35 *	* 50.35 *	2.63	3.90	* 0.159	4.426 *	0.004	0.13	* 0.112	3.94
24367	* 1629.69 *	* 64.69 *	2.50	2.52	* 0.162	3.944 *	0.003	0.10	* 0.073	2.52

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SMITHERS LAB.:
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Geochemical Analysis Certificate

OS-0366-RG2

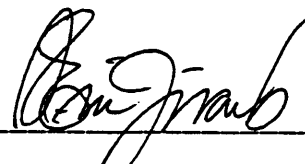
Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W.ROBERTS

Date: SEP-04-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.
2. COLUMBIA GOLD MINES, C/O MIN-EN LABS

We hereby certify the following Geochemical Analysis of 30 ROCK samples submitted AUG-24-90 by W.ROBERTS.

Sample Number	AU-FIRE PPB	CU PPM
24451	21	203
24452	37	171
24453	184	187
24454	265	300
24455	20000	280
24456	48	176
24457	22	130
24458	29	132
24459	1200	134
24460	158	81
24461	24	22
24462	1480	20
24463	735	86
24464	63	70
24465	124	81
24466	4100	227
24467	348	65
24468	338	88
24469	99	32
24470	58	32
24471	9	76
24472	116	40
24473	356	56
24474	500	51
24475	35	41
24476	700	20
24477	29	22
24478	396	20
24479	457	100
24480	438	71

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SMITHERS LAB.:
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Geochemical Analysis Certificate

OS-0366-RG3

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W. ROBERTS

Date: SEP-06-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.
2. COLUMBIA GOLD MINES, C/O MIN-EN LABS

We hereby certify the following Geochemical Analysis of 27 ROCK samples submitted AUG-24-90 by W.ROBERTS.

Sample Number	AU-FIRE PFB	CU PPM
24481	191	54
24482	120	28
24483	4200	52
24484	472	63
24485	848	90
24486	465	62
24487	22	442
24488	3420	550
24489	41	340
24490	19200	706
24491	389	2330
24492	502	2980
24232	408	580
24233	1150	620
24234	2200	730
24235	1250	1050
24236	1990	1200
24237	12900	1320
24238	13600	1400
24239	4000	1900
24240	4000	2500
24241	8000	2400
24242	4980	1500
24243	3000	1600
24244	427	740
24245	1030	1470
24296	1900	175

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TELEPHONE (807) 622-8958
FAX (807) 623-5831

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Assay Certificate

OS-0366-RA1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: SEP-02-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.
2. COLUMBIA GOLD MINES, C/O MIN-EN LABS.

We hereby certify the following Assay of 18 ROCK samples submitted AUG-24-90 by WAYNE ROBERTS.

Sample Number	AU g/tonne	AU oz/ton	CU %
24282	1.06	.031	.030
24283	.40	.012	.026
24284	2.75	.080	.036
24285	.61	.018	.030
24286	.03	.001	.016
24287	1.88	.055	.015
24288	2.00	.058	.012
24289	.14	.004	.017
24290	.94	.027	.020
24291	.06	.002	.022
24292	2.44	.071	.016
24293	.86	.025	.023
24294	.37	.011	.014
24295	.23	.007	.015
24297	1.38	.040	.025
24298	.21	.006	.035
24299	.18	.005	.027
24300	.12	.004	.025

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FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Assay Certificate

OS-0366-RA2

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W.ROBERTS

Date: SEP-06-90

Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.
2. COLUMBIA GOLD MINES, C/O MIN-EN LABS

We hereby certify the following Assay of 20 ROCK samples
submitted AUG-24-90 by W.ROBERTS.

Sample Number	AU g/tonne	AU oz/ton
24455	*10.65	.311
24459	1.06	.031
24462	1.52	.044
24466	3.82	.111
24483	4.01	.117

24488	3.52	.103
24490	24.00	.700
24233	1.22	.036
24234	2.49	.073
24235	1.20	.035

24236	2.18	.064
24237	12.42	.362
24238	16.35	.477
24239	3.91	.114
24240	3.99	.116

24241	8.98	.262
24242	6.62	.193
24243	2.57	.075
24245	1.02	.030
24296	1.82	.053

* SAMPLE CONTAINS METALLIC GOLD, RECOMMEND METALLIC GOLD ASSAY

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FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Assay Certificate

OV-1143-RA1

Company: TRIUMPH RESOURCES
Project: DEASE LAKE
Attn: WAYNE ROBERTS

Date: AUG-23-90
Copy 1. TRIUMPH RESOURCES, VANCOUVER, B.C.

We hereby certify the following Assay of 5 ROCKS samples submitted AUG-16-90 by WAYNE ROBERTS.

Sample Number	AU g/tonne	AU oz/ton
24265	1.00	.029
24266	1.82	.053
24267	1.65	.048
24525	1.80	.053
24527	12.40	.362

Certified by _____

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THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1143-RG1

Company: **TRIUMPH RESOURCES**
Project: **DEASE LAKE**
Attn: **WAYNE ROBERTS**

Date: **AUG-23-90**

Copy 1. TRIUMPH RESOURCES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 9 ROCK samples submitted AUG-16-90 by WAYNE ROBERTS.

Sample Number	AU-FIRE PPB
24265	1000
24266	1890
24267	1660
24403	222
24525	1800

24526	166
24527	11500
24528	203
24529	39

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FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Assay Certificate

0V-1236-RA1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: AUG-24-90

Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 24 ROCK samples submitted AUG-22-90 by WAYNE ROBERTS.

Sample Number	AU g/tonne	AU oz/ton
24408	.14	.004
24409	.40	.012
24410	.46	.013
24411	.07	.002
24412	.16	.005

24413	.20	.006
24414	.05	.001
24415	.07	.002
24416	.02	.001
24417	.14	.004

24418	.20	.006
24419	3.71	.108
24420	.15	.004
24421	.03	.001
24422	.16	.005

24423	.24	.007
24424	7.11	.207
24425	3.19	.093
24426	3.69	.108
24427	.10	.003

24428	.30	.009
24429	.32	.009
24430	1.74	.051
24431	2.08	.061

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THUNDER BAY LAB.:
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FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Assay Certificate

OV-1236-RA2

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: AUG-24-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 19 ROCK samples submitted AUG-22-90 by WAYNE ROBERTS.

Sample Number	AU g/tonne	AU oz/ton
24432	.21	.006
24433	.20	.006
24434	.43	.013
24435	2.27	.066
24436	.90	.026

24437	1.39	.041
24438	2.21	.064
24439	1.43	.042
24440	.75	.022
24441	.50	.015

24273	6.72	.196
24274	.62	.018
24275	3.68	.107
24276	5.28	.154
24277	1.17	.034

24278	.41	.012
24279	1.66	.048
24280	.18	.005
24281	.43	.013

Certified by _____

Ben J. ...
MIN-EN LABORATORIES



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FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Metallic Assay Certificate

OV-1236-RM1

Company: COLUMBIA GOLD
Project:
Attn: W. ROBERTS

Date: AUG-31-90
Copy 1. COLUMBIA GOLD, VANCOUVER, B.C.

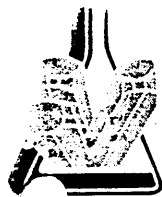
We hereby certify the following Metallic Assay of 8 REJECT samples submitted AUG-28-90 by W.ROBERT.

TR 20B

Sample Number	Total		+120 M		Assay Value Au		Total Weight Au		Metallic Au		Net Au	
	Wt (g)	Wt (g)	+120(g/t)	-120(g/t)	+120(mg)	-120(mg)	(oz/ton)	(g/t)	(oz/ton)	(g/t)		
24425	3626.82	6.82	150.44	2.84	1.026	10.281	0.008	0.28	0.091	3.12		
24426	3951.10	71.10	148.73	4.52	10.575	17.538	0.078	2.68	0.208	7.12		
24427	3667.40	32.40	3.94	.23	0.128	0.836	0.001	0.03	0.008	0.26		
24428	3278.00	38.00	8.37	.29	0.318	0.940	0.003	0.10	0.011	0.38		
24429	3897.15	7.15	5.45	.46	0.039	1.789	0.000	0.01	0.014	0.47		
24430	4043.20	43.20	1.36	1.81	0.059	7.240	0.000	0.01	0.053	1.81		
24431	4431.90	56.90	10.23	1.82	0.582	7.962	0.004	0.13	0.056	1.93		
24432	4355.40	35.40	.60	.41	0.021	1.771	0.000	0.00	0.012	0.41		

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SEP 18 1990

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FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1372-RG1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: SEP-12-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 ROCK samples submitted SEP-07-90 by W.ROBERTS.

TR 203

Sample Number	AU-FIRE PPB	CU PPM
24442	81	
24443	30	
24444	3	
24445	290	
24446	181	

24493	872	4150
24494	400	3420
24495	1300	5640
24496	706	4550
24497	880	4370

24498	2000	7980
24499	1350	4480
24500	4000	
24601	605	
24602	213	

24603	400	
24604	193	
24605	301	
24606	360	
24607	1050	

24608	161	
24609	243	
24610	319	
24611	102	
24612	93	

24613	358	
24614	640	
24615	518	
24616	363	
24617	182	

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SMITHERS LAB.:
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Geochemical Analysis Certificate

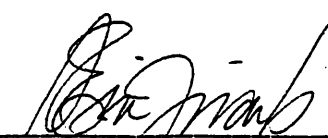
OV-1372-RG2

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: SEP-12-90
Copy 1: COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 ROCK samples submitted SEP-07-90 by W.ROBERTS.

Sample Number	AU-FIRE PPB	CU PPM
24618	285	
24619	303	
24620	324	
24621	301	
24622	450	
24623	660	
24624	338	
24625	483	
24626	415	
24627	295	
24628	400	
24629	371	
24630	437	
24631	462	
24632	585	4210
24633	890	2700
24634	420	3700
24635	715	3160
24636	508	2680
24637	812	2200
24638	725	625
24639	700	3010
24640	1200	2650
24641	850	1140
24642	735	610
24643	40	
24644	12	
24645	9	
24646	31	
24647	525	

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SMITHERS LAB.:
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Geochemical Analysis Certificate

OV-1372-RG3

Company: **COLUMBIA GOLD MINES**
Project: **SPECTRUM**
Attn: **WAYNE ROBERTS**

Date: **SEP-12-90**
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 18 ROCK samples submitted SEP-07-90 by W.ROBERTS.

Sample Number	AU-FIRE PPB
24648	61
24649	53
24650	14000
24651	4
24652	74

24653	29
24654	1050
24655	2050
24656	63
24657	9

24658	2
24659	14
24660	133
24661	5
24662	655

24663	3
24664	25
24665	128

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SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Assay Certificate

OV-1372-RA1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: SEP-12-90

Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 9 ROCK samples submitted SEP-07-90 by W.ROBERTS.

Sample Number	AU g/tonne	AU oz/ton
24495	1.36	.040
24498	1.95	.057
24499	1.40	.041
24500	3.90	.114
24607	1.00	.029

24640	1.16	.034
24650	13.20	.385
24654	1.62	.047
24655	2.20	.064

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SMITHERS LAB.:
 TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate **OV-1384-RG1**

Company: **COLUMBIA GOLD MINES**
 Project: **SPECTRUM**
 Attn: **WAYNE ROBERTS**

Date: **SEP-13-90**
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 29 ROCK samples submitted SEP-07-90 by W.ROBERTS.

Sample Number	CU PPM
24301	45
24302	91
24303	228
24304	43
24305	49
24306	239
24307	38
24308	349
24309	745
24310	555
24311	374
24312	318
24313	415
24314	460
24315	54
24316	249
24317	1590
24318	105
24319	149
24320	139
24321	45
24447	343
24448	1200
24449	670
24246 EXTRA	3490
24247 EXTRA	6950
24248 EXTRA	21000
24249 EXTRA	665
24250 EXTRA	70000

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SMITHERS LAB.:
 TELEPHONE/FAX (604) 847-3004

Assay Certificate

OV-1384-RA2

Company: **COLUMBIA GOLD MINES**
 Project: **SPECTRUM**
 Attn: **WAYNE ROBERTS**

Date: **SEP-11-90**
 Copy 1. **COLUMBIA GOLD MINES, VANCOUVER, B.C.**

We hereby certify the following Assay of 5 ROCK samples submitted SEP-07-90 by W.ROBERTS.

Sample Number	AU g/tonne	AU oz/ton
24246	.30	.009
24247	12.30	.359
24248	15.30	.446
24249	15.95	.465
24250	59.00	1.721

Certified by *Ben J. ...*

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SEP 18 1990

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Assay Certificate

OV-1384-RA1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: SEP-11-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 24 ROCK samples submitted SEP-07-90 by W.ROBERTS.

Sample Number	AU g/tonne	AU oz/ton
24301	.01	.001
24302	.08	.002
24303	.11	.003
24304	.01	.001
24305	.12	.004
24306	.01	.001
24307	.01	.001
24308	.03	.001
24309	.10	.003
24310	.26	.008
24311	.31	.009
24312	.11	.003
24313	.10	.003
24314	.01	.001
24315	.01	.001
24316	.03	.001
24317	.01	.001
24318	.01	.001
24319	.06	.002
24320	.95	.028
24321	.20	.006
24447	.30	.009
24448	6.55	.191
24449	8.64	.252

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THUNDER BAY LAB.:
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SMITHERS LAB.:
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Metallic Assay Certificate

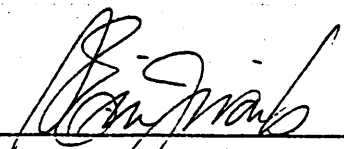
OV-1502-RM1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W. ROBERTS

Date: OCT-18-90
Copy 1. COLUMBIA GOLD, VANCOUVER, B.C.

We hereby certify the following Metallic Assay of 6 METALLICS samples submitted OCT-16-90 by W., ROBERTS.

Sample Number	Total		+120 M		Assay Value Au		Total Weight Au		Metallic Au		Net Au	
	Wt (g)	Wt (g)	+120(g/t)	-120(g/t)	+120(ug)	-120(ug)	+120(mg)	-120(mg)	(oz/ton)	(g/t)	(oz/ton)	(g/t)
24683	1310.27	20.27	1.21	2.13	0.025	2.748	0.001	0.02	0.062	2.12		
24684	1137.38	37.38	14.61	17.02	0.546	18.722	0.014	0.48	0.494	16.94		
24685	1310.29	30.29	6.92	7.95	0.210	10.176	0.005	0.16	0.231	7.93		
24686	2217.89	17.89	5.51	6.21	0.099	13.662	0.001	0.04	0.181	6.20		
24687	667.52	17.52	.21	.26	0.004	0.169	0.000	0.01	0.008	0.26		
24688	840.19	20.19	20.65	7.25	0.417	5.945	0.014	0.50	0.221	7.57		

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FAX (604) 980-9821

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1502-RG2

Company: **COLUMBIA GOLD MINES**
Project: **SPECTRUM**
Attn: **WAYNE ROBERTS**

Date: **SEP-24-90**

Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 3 ROCK samples submitted SEP-21-90 by WAYNE ROBERTS.

Sample Number	CU PPM	ZN PPM
24690	9	68
24691	196	
24692	17	51750

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 FAX (807) 623-5931

SMITHERS LAB.:
 TELEPHONE/FAX (604) 847-3004

Assay Certificate

0V-1502-RA2

Company: COLUMBIA GOLD MINES
 Project: SPECTRUM
 Attn: WAYNE ROBERTS

Date: SEP-24-90
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 3 ROCK samples submitted SEP-21-90 by WAYNE ROBERTS.

Sample Number	AU g/tonne	AU oz/ton	ZN %
24690	.02	.001	
24691	.36	.011	17.30
24692	.02	.001	

Certified by _____

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FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Geochemical Analysis Certificate

OV-1502-RG1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: SEP-24-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 24 ROCK samples submitted SEP-21-90 by WAYNE ROBERTS.

Sample Number	CU PPM	ZN PPM
24666	255	
24667	269	
24668	228	
24669	251	
24670	314	
24671	317	
24672	296	
24673	265	
24674	248	
24675	167	
24676	46	
24677	9910	
24678	570	
24679	275	
24680	154	
24681	794	
24682	142	
24683	176	
24684	512	
24685	970	
24686	1310	
24687	472	
24688	177	
24689	37	54

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SMITHERS LAB.:
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Geochemical Analysis Certificate

OV-1504-RG1

Company: COLUMBIA GOLD MINES
 Project: SPECTRUM
 Attn: WAYNE ROBERTS

Date: SEP-24-90

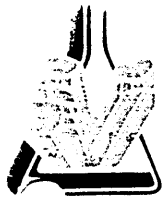
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 11 ROCK samples submitted SEP-21-90 by WAYNE ROBERTS.

Sample Number	CU PPM
24693	214
24694	283
24695	148
24696	157
24697	180
24698	169
24699	212
24700	180
24701	221
24702	141
24703	678

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THUNDER BAY LAB.:
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SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Assay Certificate

OV-1502-RA1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: SEP-24-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 24 ROCK samples submitted SEP-21-90 by WAYNE ROBERTS.

Sample Number	AU g/tonne	AU oz/ton
24666	.38	.011
24667	.08	.002
24668	.02	.001
24669	.02	.001
24670	.69	.020

24671	1.20	.035
24672	.06	.002
24673	.01	.001
24674	.01	.001
24675	1.99	.058

24676	.26	.008
24677	5.25	.153
24678	.24	.007
24679	.21	.006
24680	.42	.012

24681	.19	.006
24682	.74	.022
24683	1.94	.057
24684	16.40	.478
24685	7.60	.222

24686	7.82	.228
24687	.28	.008
24688	7.41	.216
24689	.17	.005

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SMITHERS LAB.:
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Geochemical Analysis Certificate

OV-1504-RG1

Company: COLUMBIA GOLD MINES
 Project: SPECTRUM
 Attn: WAYNE ROBERTS

Date: SEP-24-90
 Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

He hereby certify the following Geochemical Analysis of 11 ROCK samples submitted SEP-21-90 by WAYNE ROBERTS.

Sample Number	CU PPM
24693	214
24694	283
24695	148
24696	157
24697	180
24698	169
24699	212
24700	180
24701	221
24702	141
24703	678

Certified by _____

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Assay Certificate

OV-1504-RA1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: SEP-24-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 11 ROCK samples submitted SEP-21-90 by WAYNE ROBERTS.

Sample Number	AU g/tonne	AU oz/ton
24693	23.95	.699
24694	.98	.029
24695	.17	.005
24696	.59	.017
24697	.38	.011
24698	.02	.001
24699	.03	.001
24700	.45	.013
24701	26.00	.758
24702	36.05	1.051
24703	10.44	.305

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SMITHERS LAB.:
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OCT 10 1990

Assay Certificate

OV-1545-RA1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W.J. ROBERTS

Date: OCT-03-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 8 ROCK samples
submitted OCT-01-90 by J.J. HYLANDS.

HAWK

Sample Number	AU g/tonne	AU oz/ton
24704	1.78	.052
24705	1.36	.040
24706	1.42	.041
24707	.32	.009
24708	.01	.001

24709	.18	.005
24710	.02	.001
24711	.01	.001

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SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

OCT 10 1990

Geochemical Analysis Certificate

OV-1545-RG1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: WAYNE ROBERTS

Date: OCT-03-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

He hereby certify the following Geochemical Analysis of 8 ROCK samples submitted OCT-01-90 by J.J.HYLANDS.

Sample Number	CU PPM
24704	251
24705	340
24706	132
24707	1810
24708	1215

24709	256
24710	143
24711	231

Certified by _____

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FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

OCT 10 1990

Assay Certificate

OV-1545-RA1

Company: COLUMBIA GOLD MINES
Project: SPECTRUM
Attn: W.J.ROBERTS

Date: OCT-03-90
Copy 1. COLUMBIA GOLD MINES, VANCOUVER, B.C.

We hereby certify the following Assay of 8 ROCK samples
submitted OCT-01-90 by J.J.HYLANDS.

HAWK

Sample Number	AU g/tonne	AU oz/ton
24704	1.78	.052
24705	1.36	.040
24706	1.42	.041
24707	.32	.009
24708	.01	.001
24709	.18	.005
24710	.02	.001
24711	.01	.001

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