OLD NaCN LEACH TESTS

B-47	B-49	B-49 (CONT.)	
0-5 (OX)	30-35	295-300	525-530
5-10 (OX)	40-45	300-305	530-535
10-15 (OX)	60-65	305-310	545-550
25-30 (OX)	85-90	310-315	550-555
35-40 (OX)	90-95	315-320	555-560
80-85 (MIXED)	95-100	320-325	595-600
85-90 (MIXED)	110-115	325-330	
90-95 (MIXED)	135-140	330-335 (OXIDE)	
100-105 (MIXED)	140-145	335-340 (OXIDE)	
	145-150	340-345 (MIXED GONE?)	
	150-155	345-350 (MIXED GONE?)	
	155-160	350-355	
	160-165	355-360	
	165-170	370-375	
	170-175	375-380	
	175-180	380-385	
	180-185	385-390	
	185-190	390-395	
	210-215	420-425	
	215-220	425-430	
	245-250	440-445	
	250-255	445-450	
	255-260	500-505	
	260-265	505-510	
	265-270	510-515	
	280-285	515-520	
	285-290	520-525	

B-51

10-15

B-53

NONE

DGE-5

25-30
30-35
35-40
40-45
45-50
60-65
65-70
70-75
75-80
80-85
90-95
95-100
100-105
105-110
110-115
115-120
120-125
125-130
130-135
135-140
140-145

DGE-5 CONT.

145-150
150-155
155-160
160-165
165-170
170-175
175-180
180-185
185-190
190-195
195-200
-205
-215
-220

Still have?

OXIDE

RGE-84-4		RGE-84-6
0-5	195-200	10-30
-10	-205	35-45
-15	-210	50-70
-20	-215	75-90
-45	-220	100-110
-50	-225	115-155
-85	-230	160-175
-90	-240	180-185
-95	-250	200-215
-100	-255	240-255
-105	-260	
-110	-265	
-115	-270	
-120	-275	
-125	-280	
-130	-285	
-135	-290	
-140	-295	
-145	-300	
-150	-305	
-155		
-160		
-165		
-170		
-175		
-180		
-185		
-190		

289

EXCLUDING Those done by LACANA

RGE 84-7

15-20

20-110 ✓ALL

115-225 spotty 150

RGE-84-8

15-20

~~30-35~~

RGE-84-9

30-35

35-40

45-50

55-60

65-70

80-85

105-110

145-150

155-165 ✓✓

175-180

180-185

185-190 162

190-225 ~~230~~

230-235

240-245

245-250

250-255

RGE-84-10 173

25-35

50-70

90-95

100-110

165-170

185-190

195-200

200-205

205-230

235-260

270-275

280-285

300-310 201

RGE-84-11

0-200 241

RGE-84-12

15-50 248

70-110 256

130-155 261

175-185

195-200

RGE-84-13 269

220-285 227

RGE-84-14

80-95

100-115

120-240

245-250

Rex

10/22/87

Regarding Rejects available for NaCN-extraction testing, we have on hand....

1. pulps from all drilling
2. Rejects from A) All 1987 Drilling assaying ≥ 0.020
   B) " " Met test Holes
   C) All Lacana Core Holes (DGE- holes)
   D) 3 GLE Rotary Holes (Amoco)
   E) 14 Lacana Rotary Holes (1984)

We presently have Non-Roasted NaCN Leach plus 1 A.T. Fire Assays for the samples shown below.

Results

These tests were conducted by Monitor Geochem in Elko by the following method... 10g sample, 20 mils NaCN (which is 5.25 lbs./t equivalent) + NaOH to maintain pH at ~11. NaCN solution goes in at ~ 182°F, sample is agitated for 1.5 hours, is the centrifuged and then aspirated in AA for gold content.

Drill Holes RGE 84 1-14, 37-41
Core Holes DGE-5 (155-175'), DGE-10 (395-460')
Rattlesnake Crosscut
One John Adit
Surface samples from Hot Springs Ridge (Sunday Pit Area)

Total Samples in this category is about 700

Jim

Note: Kappes & Cassidy work is not included in the above.

cc: Dan Blakeman

10/22/87

Rex

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② Rejects from A) All 1987 Drilling assaying ≥ 0.020

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cc: Dan Blakeman

Monitor Geochemical Laboratory, Inc.
P.O. Box 1901 * Elko, Nevada 89801 * (702) 738-3236

Certificate of Analysis

CLIENT: LACANA GOLD INC.
ATTENTION: ROD MAC LEOD

DATE: 11-29-84
CLIENT PO :
INVOICE NO.: 13630
LAB NO. : 6627/6631
CC: RICH HALL-IDAHO

ANALYTICAL METHODS: Au, Ag - Fire Analyses (1 A.T.)
Au, Ag - No-roast Cy Leach A.A.

SHMC - MONITOR = DIFF. (+ SHMC > MONITOR / - SHMC < MONITOR)

SAMPLE #	SHMC FIRE ASSAY		Fire Au(oz/ton)	DIFF. Fire Ag(oz/ton)	NR/Cy Au(oz/ton)	NR/Cy Ag(oz/ton)	% Recovery NR Cy/Fire
84-1-20-25	.075	-	.074	+.001	.15	.055	OXIDE	74
84-1-25-30	.055	-	.044	+.011	.10	.036		82
84-1-30-35	.060		.046	+.014	.25	.037		80
84-1-35-40	.065		.035	+.030	-.05	.030		86
84-1-40-45	.040		.011	+.029	.15			—
84-1-45-50	.120		.103	+.017	.10	.097		94
84-1-50-55	.085		.102	-.017	.15	.070		67
84-1-55-60	.085		.112	-.027	.15	.105		94
84-1-60-65	.080		.081	-.001	.10	.046		57
84-1-65-70	.045		.039	+.006	.10	.021		54
84-1-70-75	.210		.210	0.00	.05	.103		49
84-1-75-80	.015		.061		-.05	.026		43
84-1-80-85**	.130		.010		.10		MIXED	—
84-1-105-110	.100		.096	+.004	-.05	.066	OXIDE	69
84-1-110-115	.255		.343	-.088	-.05	.053		15
84-1-115-120	.100		.272	-.172	-.05	.062		23
84-1-120-125	.035		.053	-.018	-.05	.027		51
84-1-125-130	.040		.046	-.006	.10	.037		80
84-1-130-135	.025		.016	+.009	.05			—
84-1-135-140	.020		.017	+.003	.10			—
84-1-140-145**	.030		.031	-.001	-.05	.019		61
84-1-215-220	.040		.043	+.047	-.05	.023		53
84-1-220-225	.040		.017	+.023	-.05			—
84-1-225-230	.040		.024	+.016	.05	.005	SULFIDE	21
84-1-230-235	.045		.027	+.018	-.05	.027	OXIDE	100
84-1-235-240**	.040		.017	+.023	-.05			—
84-2-10-15	.035		.018	+.017	.05		OXIDE	—
84-2-15-20	.035		.029	+.006	.10	.019		66
84-2-20-25	.030		.032	-.002	.05	.019		59
84-2-25-30	.040		.037	+.003	.15	.024		65

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LAB NO. : 6627/6631
CC: RICH HALL-IDAHO

ANALYTICAL METHODS: Au, Ag - Fire Analyses (1 A.T.)
Au, Ag - No-roast Cy Leach A.A.

SAMPLE #	SHMC FIRE ASSAY	Fire Au(oz/ton)	Fire Ag(oz/ton)	NR/Cy Au(oz/ton)	NR/Cy Ag(oz/ton)	% Recovery
84-2-30-35	.030	.014	.05		OXIDE	—
84-2-35-40	.020	.023	.10	.020		57
84-2-40-45	.020	.014	.10			—
84-2-45-50	.030	.023	.10	.022		96
84-2-50-55	.045	.055	-.010 .05	.044		80
84-2-55-60	.040	.033	+.007 .15	.023		70
84-2-60-65	.045	.054	.15	.039		72
84-2-65-70	.035	.029	+.006 .20	.021		72
84-2-70-75**	.040	.062	-.012 -.05	.043		69
84-2-135-140	.050	.069	-.019 .10	.035		51
84-2-140-145	[illegible]	.411	-.086 .10	.195		47
84-2-145-150	.315	.393	-.078 -.05	.220		56
84-2-150-155	.215	.210	+.005 -.05	.129		61
84-2-155-160	.080	.064	+.016 -.05	.046	MIXED	72
84-2-160-165	.095	.120	-.025 -.05	.032	SULFIDE	27
84-2-165-170	.040	.045	-.005 -.05	.027		60
84-2-170-175	.045	.055	-.010 -.05	.027		49
84-2-175-180**	.075	.053	+.022 -.05	.024		45
84-4-75-80	.050	.072	-.022 -.05	.048	OXIDE	67
84-4-80-85	.030	.045	-.015 -.05	.032		71
84-4-85-90	[illegible]	.037	-.007 -.05	.037		100
84-4-90-95	[illegible]	.039	-.009 -.05	.039		100
84-4-95-100	[illegible]	.110	-.005 .05	.073		66
84-4-100-105	[illegible]	.084	+.001 -.05	.070		83
84-4-105-110	[illegible]	.071	-.006 -.05	.065		92
84-4-110-115	[illegible]	.029	+.016 -.05	.029		100
84-4-115-120	[illegible]	.053	+.012 -.05	.051		[illegible]
84-4-120-125	[illegible]	.026	-.001 -.05	.023		88
84-4-125-130	[illegible]	.037	-.012 -.05	.037		100
84-4-130-135	[illegible]	.023	+.007 -.05	.019		83

+ - 0
= 18 | 0

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LAB NO. : 6627/6631
CC: RICH HALL-IDAHO

ANALYTICAL METHODS: Au, Ag - Fire Analyses (1 A.T.)
Au, Ag - No-roast Cy Leach A.A.

SAMPLE #	CHML FIRE ASSAY	Fire Au(oz/ton)	DIFF	Fire Ag(oz/ton)	NR/Cy Au(oz/ton)	NR/Cy Ag(oz/ton)	% RECOVER
84-4-135-140	.025	.021	+.004	-.05	.017	OXIDE	81
84-4-140-145	.030	.026	+.004	-.05	.024		[illegible]
84-4-145-150	.030	.041	+.005	-.05	.023		56
84-4-150-155	.020	.015	+.005	-.05			—
84-4-155-160**	.050	.042	+.008	-.05	.034		81
84-4-245-250	.055	.059	-.004	-.05	.054		92
84-4-250-255	.070	.081	-.011	.15	.067		83
84-4-255-260	.030	.029	+.001	.10	.022		76
84-4-260-265	.020	.022	-.002	.05	.020		91
84-4-265-270	.030	.030	0.00	.65	.029	.012	97
84-4-270-275	.020	.008	+.012	-.05			—
84-4-275-280	.020	.025	-.005	-.05	.018		72
84-4-280-285	.025	.019	+.006	-.05			—
84-4-285-290	.055	.058	-.003	-.05	.040		69
84-4-290-295	.065	.073	-.008	-.05	.052		71
84-4-295-300	.080	.092	-.012	-.05	.056		61
84-4-300-305	.045	.049	-.004	.05	.023		47
84-4-305-310	.045	.051	-.006	-.05	.010	MIXED	20
84-4-310-315**	.050	.040	+.010	-.05	.031		78
84-6-50-55	.040	.049	-.009	-.05	INSUF SA	OXIDE	—
84-6-55-60	.140	.160	-.020	-.05	.074		46
84-6-60-65	.020	.033	-.013	-.05	.027		82
84-6-65-70**	.025	.014	+.011	-.05			—
84-6-120-125	.025	.033	-.008	.10	INSUF SA		—
84-6-125-130	.020	.032	-.012	.10	.022		69
84-6-130-135	.020	.031	-.011	.10	.028		90
84-6-135-140	.030	.019	+.011	.15			—
84-6-140-145	.040	.027	+.013	.10	.022		81
84-6-145-150	.025	.043	-.018	.10	.035		81
84-6-150-155**	.025	.016	+.009	-.05			—

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CLIENT PO :
INVOICE NO.: 13630
LAB NO. : 6627/6631
CC: RICH HALL-IDAHO

ANALYTICAL METHODS: Au, Ag - Fire Analyses (1 A.T.)
Au, Ag - No-roast Cy Leach A.A.

SAMPLE #	SHMC Fire Assay	Fire Au(oz/ton)	DIFF.	Fire Ag(oz/ton)	NR/Cy Au(oz/ton)	NR/Cy Ag(oz/ton)	% RECOVERY
84-7-20-25	.050	.047	+.002	-.05	.038	[illegible]	81
84-7-25-30	.040	.040	0.00	-.05	.039		98
84-7-30-35	.045	.040	+.005	-.05	INSUF SA		—
84-7-35-40	.060	.047	+.013	-.05	.047		100
84-7-40-45	.080	.066	+.014	.40	.059		89
84-7-45-50	.055	.077	-.022	.05	INSUF SA		—
84-7-50-55	.025	.060	-.035	-.05	.041		68
84-7-55-60	.030	.028	+.002	-.05	.025		89
84-7-60-65	.075	.078	-.003	-.05	INSUF SA		—
84-7-65-70	.085	.102	-.017	-.05	.077		75
84-7-70-75	.040	.048	-.008	-.05	INSUF SA		—
84-7-75-80	.030	.033	-.003	-.05	.026		79
84-7-80-85	.025	.020	+.005	-.05	.014		70
84-7-85-90	.020	.032	-.012	-.05	.026		81
84-7-90-95	.050	.060	-.010	-.05	.036		60
84-7-95-100	.115	.116	-.001	-.05	.093		80
84-7-100-105	.060	.052	+.008	-.05	.046		88
84-7-105-110	.090	.082	+.008	-.05	.059		72
84-7-110-115	.045	.017	+.028	-.05			—
84-7-115-120	.070	.061	+.009	-.05	.051		84
84-7-120-125	.210	.179	+.031	-.05	INSUF SA		—
84-7-125-130	.070	.068	+.002	-.05	INSUF SA		—
84-7-130-135	.020	.017	+.003	-.05			—
84-7-135-140	.020	.010	+.010	-.05			—
84-7-140-145	.040	.026	+.014	-.05	INSUF SA		—
84-7-145-150	.090	.050	+.040	-.05	.022		44
84-7-150-155	.020	.030	-.010	-.05	.010		33
84-7-155-160	.055	.047	+.008	-.05	[illegible]		—
84-7-160-165	.020	.012	+.008	-.05	[illegible]		—
84-7-165-170	.110	.094	+.016	-.05	.058		62

19/51

Monitor Geochemical Laboratory, Inc.
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INVOICE NO. : 13630
LAB NO. : 6627/6631
CC: RICH HALL-IDAHO

ANALYTICAL METHODS: Au, Ag - Fire Analyses (1 A.T.)
Au, Ag - No-roast Cy Leach A.A.

SAMPLE #	SHMC (FIRE ASSAY)	Fire Au(oz/ton)	DIFF.	Fire Ag(oz/ton)	NR/Cy Au(oz/ton)	NR/Cy Ag(oz/ton)	% RECOVERY
84-7-170-175	.050	.054	-.004	-.05	.025	OXIDE	46
84-7-175-180	.080	.110	-.030	.05	.052		47
84-7-180-185	.040	.018	+.022	-.05			—
84-7-185-190**	.070	.034	+.036	-.05	.024		71
84-9-155-160	.030	.011	+.019	.15		OXIDE	—
84-9-160-165**	.030	.038	-.008	-.05	.029		76
84-9-195-200**	.030	.016	+.014	.10			—
84-9-210-215**	.030	.014	+.016	.15			—
84-9-245-250**	.030	.013	+.017	-.05			—
84-10-200-205	.030	.016	+.014	.05		OXIDE	—
84-10-205-210**	.035	.032	+.003	-.05	INSUF SA		—
84-10-220-225	.030	.015	+.015	-.05			—
84-10-225-230**	.035	.014	+.021	.05			—
84-10-240-245	.020	.025	+.005	-.05	.025		100
84-10-245-250	.020	.022	-.002	-.05	.019		86
84-10-250-255**	.040	.022	+.018	-.05	.021		95
84-11-0-5	.110	.104	+.006	1.15 (.99)	INSUF SA	OXIDE	—
84-11-5-10	.065	.128	-.063	1.10 (1.22)	INSUF SA		—
84-11-10-15	.110	.074	+.036	.90 (.86)	INSUF SA		—
84-11-15-20	.085	.086	-.001	2.25 (2.09)	.072	1.99	84/88
84-11-20-25	.130	.126	+.004	1.05 (1.045)	.108	.870	86/83
84-11-25-30	.195	.212	-.017	.90 (.83)	INSUF SA		—
84-11-30-35	.240	.197	+.043	1.10 (.97)	.147	.970	75/78
84-11-35-40	.150	.256	-.076	1.30 (1.65)	INSUF SA		—
84-11-40-45	.210	.244	-.034	.05 (.030)	.163		67
84-11-45-50	.240	.220	+.020	.05 (.020)	.210		75
84-11-50-55	.160	.170	-.010	.05 (.05)	INSUF SA		—
84-11-55-60	.120	.108	+.012	.30 (.190)	.108		100
84-11-60-65	.105	.096	+.009	.10 (.085)	.090		94
84-11-65-70	.110	.112	-.002	.05 (.010)	INSUF SA		—

19/11/5

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INVOICE NO. : 13630
LAB NO. : 6627/6631
CC: RICH HALL-IDAHO

ANALYTICAL METHODS: Au, Ag - Fire Analyses (1 A.T.)
Au, Ag - No-roast Cy Leach A.A.

SAMPLE #	SHML (FIRE ASSAY)	Fire Au(oz/ton)	DIFF	Fire Ag(oz/ton)	NR/Cy Au(oz/ton)	NR/Cy Ag(oz/ton)	% RECOVERY
84-11-70-75	.100	.081	+.019	.10	INSUF SA	OXIDE	—
84-11-75-80	.040	.117	-.077	.10	.100		85
84-11-80-85	.130	.117	+.013	.10	.100		85
84-11-85-90	.105	.096	+.009	-.05	.089		93
84-11-90-95	.070	.077	-.007	-.05	INSUF SA		—
84-11-95-100	.110	.048	+.062	-.05	.042		88
84-11-100-105	.020	.044	-.014	.05	.043		98
84-11-105-110	.060	.046	+.014	-.05	.038		83
84-11-110-115	.035	.028	+.007	-.05	.020		71
84-11-115-120	.050	.051	-.001	.05	.044		86
84-11-120-125	.045	.046	-.001	-.05	.038		83
84-11-125-130	.045	.033	+.012	-.05	.033		100
84-11-130-135	.060	.032	+.028	.05	.030		94
84-11-135-140	.030	.023	+.007	.05	.022		96
84-11-140-145	.030	.025	+.005	.10	INSUF SA		—
84-11-145-150	.005	.003	+.002	-.05			—
84-11-150-155	.040	.004	+.036	-.05			—
84-11-155-160	.025	.015	+.010	-.05			—
84-11-160-165	.020	.010	+.010	.05			—
84-11-165-170	.025	.009	+.016	-.05			—
84-11-170-175**	.025	.004	+.021	.10			—
84-11-180-185	.030	.015	+.015	-.05			—
84-11-185-190	.030	.013	+.017	.05			—
84-11-190-195	.035	.009	+.026	-.05			—
84-11-195-200**	.020	.006	+.014	-.05			—
84-12-15-20	.030	.022	+.008	-.05	.026	OXIDE	118
84-12-20-25	.040	.018	+.022	-.05			—
84-12-25-30	.030	.035	-.005	-.05	.028		80
84-12-30-35	.025	.022	+.003	-.05	.023		105
84-12-35-40	.020	.008	+.012	-.05			—

24.00

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ATTENTION: ROD MAC LEOD

DATE: 11-29-84
CLIENT PO :
INVOICE NO. : 13630
LAB NO. : 6627/6631
CC: RICH HALL-IDAHO

ANALYTICAL METHODS: Au, Ag - Fire Analyses (1 A.T.)
Au, Ag - No-roast Cy Leach A.A.

SAMPLE #	SHML (1 AT ASSAY)	Fire Au(oz/ton)	DIFF.	Fire Ag(oz/ton)	NR/Cy Au(oz/ton)	NR/Cy Ag(oz/ton)	% RECOVERY
84-12-40-45	.025	.026	-.001	-.05	.023	[illegible]	88
84-12-45-50**	.010	.010	+.010	.10			—
84-12-70-75	.025	.031	-.006	-.05	INSUF SA		—
84-12-75-80	.020	.030	-.010	-.05	.024		80
84-12-80-85	.025	.041	-.006	-.05	.036		88
84-12-85-90	.020	.022	-.002	-.05	.019		86
84-12-90-95	.030	.029	+.001	-.05	.026		90
84-12-95-100	.040	.033	+.007	-.05	.029		88
84-12-100-105	.025	.026	+.009	-.05	.019		73
84-12-105-110**	.025	.026	-.001	-.05	.022		85
84-12-130-135	.025	.018	+.007	-.05			—
84-12-135-140	.020	.037	-.017	-.05	INSUF SA		—
84-12-140-145	.025	.009	+.016	-.05			—
84-12-145-150	.025	.011	+.014	-.05			—
84-12-150-155**	.020	.010	+.010	-.05			—
84-13-235-240	.030	.011	+.019	-.05		OXIDE	—
84-13-240-245	.030	.007	+.023	-.05			—
84-13-255-260	.045	.014	+.031	-.05			—
84-13-260-265	.025	.010	+.015	-.05			—
84-13-265-270	.020	.009	+.011	.05			—
84-13-270-275	.030	.017	+.013	.10			—
84-13-275-280	.025	.004	+.021	-.05			—
84-13-280-285	[illegible]	.008	+.022	-.05			—
84-13-285-290	.025	.005	+.020	-.05		SULFIDE	—
84-13-290-295	.020	.002	+.018	-.05			—
84-13-295-300**	[illegible]	.005	+.015	-.05			—
84-14-80-85	.030	.041	-.011	-.05	INSUF SA	OXIDE	—
84-14-85-90	.045	.050	-.005	-.05	.038		76
84-14-90-95**	.025	.028	-.003	-.05	INSUF SA		—
84-14-120-125	.040	.037	+.003	-.05	INSUF SA		—

20 10/0

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P.O. Box 1901 * Elko, Nevada 89801 * (702) 738-3236

Certificate of Analysis

CLIENT: LACANA GOLD INC.
ATTENTION: ROD MAC LEOD

DATE: 11-29-84
CLIENT PO :
INVOICE NO.: 13630
LAB NO. : 6627/6631
CC: RICH HALL-IDAHO

ANALYTICAL METHODS: Au, Ag - Fire Analyses (1 A.T.)
Au, Ag - No-roast Cy Leach A.A.

SAMPLE #	SHMC (FIRE ASSAY)	Fire Au(oz/ton)		Fire Ag(oz/ton)	NR/Cy Au(oz/ton)	NR/Cy Ag(oz/ton)	% RECOVERY
84-14-125-130	.045	.028	+.017	-.05	.022	OXIDE	79
84-14-130-135	.020	.020	+.010	-.05	.020		100
84-14-135-140	.070	.070	0.00	-.05	.067		96
84-14-140-145	.030	.042	-.012	-.05	INSUF SA		—
84-14-145-150	.060	.060	0.00	-.05	.045		75
84-14-150-155	.050	.050	0.00	-.05	INSUF SA		—
84-14-155-160	.050	.075	-.025	-.05	INSUF SA		—
84-14-160-165	.140	.150	-.010	-.05	.134		89
84-14-165-170	.030	.027	+.003	-.05	.026		96
84-14-170-175	.030	.030	0.00	-.05	.024		80
84-14-175-180	.035	.038	-.003	-.05	.031		82
84-14-180-185	.025	.024	+.001	-.05	.023		96
84-14-185-190	.030	.041	-.011	-.05	INSUF SA		—
84-14-190-195	.060	.060	0.00	-.05	INSUF SA		—
84-14-195-200	.040	.048	-.008	-.05	.040		83
84-14-200-205	.070	.080	-.010	-.05	INSUF SA		—
84-14-205-210	.140	.132	+.008	-.05	.118		89
84-14-210-215	.170	.181	-.011	-.05	.139		77
84-14-215-220	.030	.060	-.030	-.05	.032		53
84-14-220-225	.030	.021	+.009	.05	INSUF SA		—
84-14-225-230	.020	.014	+.006	.05			—
84-14-230-235	.020	.016	+.004	.10			—
84-14-235-240**	.035	.038	-.003	.05	.028	✓	74
84-1-145-150**	.080	.085	-.005	.10	.052	OXIDE	61

8/11/5

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ATTENTION: ROD MAC LEOD

DATE: 11-29-84
CLIENT PO :
INVOICE NO.: 13630
LAB NO. : 6627/6631
CC: RICH HALL-IDAHO

ANALYTICAL METHODS: Au, Ag - Fire Analyses (1 A.T.)
Au, Ag - No-roast Cy Leach A.A.

SAMPLE #	SHMC (FIRE ASSAY)	Fire Au(oz/ton)	DIFF.	Fire Ag(oz/ton)	NR/Cy Au(oz/ton)	NR/Cy Ag(oz/ton)	% Recovery
84-11-175-180	.020	.031	-.011	.05	.028	OXIDE	90
		235		235	177	4	

Joseph D. Koch
General Manager

+ - 0
0 1 0

*Greater than 1000 ppm reported as percent (Assay)
**Break in numerical sequence

10g 20mils 5.25 #/t NaCN equiv. + NaOH to keep pH @ ~11
~~hot~~ Cy 182°F added to sample and shake for 1.5 hrs.
Centrifuge & AA
No grind, lime consumption etc.

4.00/sample + F.A. (8.85)

Cs. Au Analysis Technique

Metal Au Assay
or Multiple Au

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Certificate of Analysis

CLIENT: Lacana Mining Inc.
ATTENTION:

DATE: 9-21-84
CLIENT ORDER NO.:
INVOICE NO.: 12993
LAB NO. : 5747
CC: MacLeod/Hall-S.D.

ANALYTICAL METHODS: Au, Ag - Fire Analyses (1 A.T.)
Au, Ag - No-roast Cy Leach A.A.

Rattlesnake Crosscut

SAMPLE #	Fire Au(oz/ton)	Fire Ag(oz/ton)	NR/Cy Au(oz/ton)		NR/Cy Ag(oz/ton)
M-8 3/4" 4TH CU	.068	.10	.046	68%	.024
M-8 3/4" 4TH CU	.065	.05	.052	80%	.032
M-30 4"	.060	.15	.041	68	.036
M-9 3/4"	.071	.20	.059	83	.032
M-11 4" 3RD CUT	.044	.15	.036	82	.028
M-15 3/4" 4TH C	.042	-.05	.039	93%	.032
	6	6	6		6

what are these?

Joseph D. Koch
for General Manager

*Greater than 1000 ppm reported as percent(Assay)
**Break in numerical sequence

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Certificate of Analysis

CLIENT: Lacana Mining Inc.
ATTENTION:

DATE: 9-13-84
CLIENT ORDER NO.:
INVOICE NO.: 12921
LAB NO. : 5645/54
CC: MacLead/Hall

ANALYTICAL METHODS: Au, Ag - Fire Analyses (1 A.T.)
Au - No-roast Cy Leach A.A.

100% -80 mesh — pulps

SAMPLE #	Fire Au(oz/ton)	Fire Ag(oz/ton)	NR/Cy Au(oz/ton)
12	.026	-.05	.024
22	.039	-.05	.038
32	.058	-.05	.049
32A	.026	-.05	.022
42	.009	-.05	.008
52	.026	-.05	.020
62	.109	-.05	.083
82	.049	-.05	.040
92	.064	-.05	.043
102	.143	-.05	.109
112	.038	-.05	.034
122	.056	-.05	.051
132	.167	-.05	.139
142	.044	-.05	.043
152	.042	-.05	.034
162	.050	-.05	.038
172	.067	-.05	.046
182	.050	-.05	.040
192	.055	-.05	.053
202	.033	-.05	.030
212	.041	-.05	.041
222	.019	-.05	.019
232	.024	-.05	.023
242	.030	.30	.017
252	.018	-.05	.017
262	.014	-.05	.012
272	.020	-.05	.020
282	.207	-.05	.167
292	.116	-.05	.104
302	.049	-.05	.042

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ATTENTION:

DATE: 9-13-84
CLIENT ORDER NO.:
INVOICE NO.: 12921
LAB NO. : 5645/54
CC: MacLead/Hall

ANALYTICAL METHODS: Au, Ag - Fire Analyses (1 A.T.)
Au - No-roast Cy Leach A.A.

SAMPLE #	Fire Au(oz/ton)	Fire Ag(oz/ton)	NR/Cy Au(oz/ton)
312	.029	.10	.029
322	.040	-.05	.034
332	.020	.05	.014
342	.017	.10	.012
352	.017	.10	.011
362	.069	.05	.062
372	.029	.10	.024
382	.016	.10	.011
392	.028	.05	.019
402	.255	.10	.121
412	.362	.10	.340
422	.228	.05	.145
432	.393	.25	.300
442	.063	.10	.052
452	.120	.10	.118
462	.124	.10	.068
472**	.033	.10	.029
R S FACE**	.047	.10	.040
OJ-1	.206	.10	.180
OJ-2	.080	.10	.073
OJ-3	.041	-.05	.039
OJ-4	.053	.05	.045
OJ-5	.026	.10	.019
OJ-6	.128	.05	.109
OJ-7	.039	.10	.031
OJ-8	.093	.05	.083
OJ-9	.111	-.05	.086
OJ-10	.062	.05	.049
OJ-11	.013	-.05	.011
OJ-12	.115	-.05	.097

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Certificate of Analysis

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CLIENT ORDER NO.:
INVOICE NO.: 12921
LAB NO. : 5645/54
CC: MacLead/Hall

ANALYTICAL METHODS: Au, Ag - Fire Analyses (1 A.T.)
Au - No-roast Cy Leach A.A.

SAMPLE #	Fire Au(oz/ton)	Fire Ag(oz/ton)	NR/Cy Au(oz/ton)
OJ-13	.078	.10	.067
OJ-14	.097	.10	.085
OJ-15	.049	-.05	.043
OJ-16	.067	.10	.060
OJ-17**	.034	-.05	.028
B2-M-2	.040	.05	.035
B2-M-3	.068	.05	.057
B2-M-4	.026	-.05	.018
B2-M-5	.023	-.05	.020
B2-M-6	.029	-.05	.021
B2-M-7	.043	.05	.035
B2-M-8	.072	.10	.067
B2-M-9	.070	.05	.051
B2-M-10	.069	-.05	.064
B2-M-11	.049	.10	.046
B2-M-12	.137	.10	.063
B2-M-13	.083	.10	.073
B2-M-14	.071	.10	.068
B2-M-15	.055	.10	.050
B2-M-16	.038	.10	.035
B2-M-17	.046	.05	.036
B2-M-18	.045	.05	.027
B2-M-19	.034	.05	.026
B2-M-20	.032	-.05	.028
B2-M-21	.086	-.05	.054
B2-M-22	.031	-.05	.028
B2-M-23	.024	-.05	.020
B2-M-24	.028	.05	.020
B2-M-25	.031	.10	.025
B2-M-26	.020	-.05	.015

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CLIENT ORDER NO.:
INVOICE NO.: 12921
LAB NO. : 5645/54
CC: MacLead/Hall

ANALYTICAL METHODS: Au, Ag - Fire Analyses (1 A.T.)
Au - No-roast Cy Leach A.A.

SAMPLE #	Fire Au(oz/ton)	Fire Ag(oz/ton)	NR/Cy Au(oz/ton)
B2-M-27	.017	-.05	.013
B2-M-28	.035	-.05	.025
B2-M-29	.079	-.05	.050
B2-M-30	.060	.10	.052
B2-M-31	.034	.05	.021
B2-M-32	.031	.05	.015
B2-M-33	.027	-.05	.018
B2-M-34	.020	-.05	.017
B2-M-35	.017	-.05	.014
B2-M-36	.019	-.05	.018
B2-M-37	.027	.05	.025
B2-M-38	.031	.05	.028
B2-M-39	.042	.10	.032
B2-M-40	.074	-.05	.060
B2-M-41	.095	-.05	.059
B2-M-42	.198	.10	.152
B2-M-43	.412	.15	.250
B2-M-44	.293	.10	.210
B2-M-45	.198	.20	.110
B2-M-46	.216	.05	.190
B2-M-47**	.100	-.05	.077
11	.031	.05	.019
21	.133	.15	.110
31	.087	-.05	.072
41	.007	.10	.006
51	.010	-.05	.010
61	.015	.05	.011
81	.053	-.05	.049
91	.056	-.05	.053
101	.062	.05	.058

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CLIENT ORDER NO.:
INVOICE NO.: 12921
LAB NO. : 5645/54
CC: MacLead/Hall

ANALYTICAL METHODS: Au, Ag - Fire Analyses (1 A.T.)
Au - No-roast Cy Leach A.A.

SAMPLE #	Fire Au(oz/ton)	Fire Ag(oz/ton)	NR/Cy Au(oz/ton)
111	.056	-.05	.050
121	.036	.10	.027
131	.100	.05	.088
141	.079	.10	.071
151	.034	.10	.034
161	.043	.15	.040
171	.050	.10	.048
181	.036	.10	.030
191	.045	.05	.044
201	.020	.10	.020
211	.031	.30	.031
221	.012	.10	.011
231	.026	.10	.026
241	.033	.10	.030
251	.033	-.05	.019
261	.020	.10	.019
271	.012	.05	.010
281	.021	.10	.017
291	.019	.10	.016
301	.034	.15	.033
311	.017	.10	.014
321	.012	.10	.011
331	.010	.10	.010
341	.019	.05	.016
351	.021	.10	.021
361	.022	.10	.020
371	.022	.15	.021
381	.014	.10	.012
391	.019	-.05	.014
401	.027	.20	.023

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CLIENT ORDER NO.:
INVOICE NO.: 12921
LAB NO. : 5645/54
CC: MacLead/Hall

ANALYTICAL METHODS: Au, Ag - Fire Analyses (1 A.T.)
Au - No-roast Cy Leach A.A.

SAMPLE #	Fire Au(oz/ton)	Fire Ag(oz/ton)	NR/Cy Au(oz/ton)
411	.110	-.05	.065
421	.083	.10	.065
431	.143	-.05	.091
441	.682	.25	.360
451	.089	.10	.084
461	.152	.15	.069
471**	.174	.05	.062
MUCH-1	.051	-.05	.046
MUCH-2	.044	-.05	.040
MUCH-3	.058	.10	.049
MUCH-4	.027	-.05	.022
MUCH-5	.028	-.05	.023
MUCH-6	.022	-.05	.019
MUCH-7	.037	-.05	.036
MUCH-8	.050	-.05	.047
MUCH-9	.088	-.05	.075
MUCH-10	.072	-.05	.059
MUCH-11	.045	-.05	.033
MUCH-12	.047	-.05	.035
MUCH-13	.084	-.05	.065
MUCH-14	.085	-.05	.069
MUCH-15	.052	-.05	.047
MUCH-16	.042	-.05	.036
MUCH-17	.033	-.05	.030
MUCH-18	.039	-.05	.029
MUCH-19	.046	-.05	.036
MUCH-20	.032	-.05	.029
MUCH-21	.026	-.05	.024
MUCH-22	.039	-.05	.029
MUCH-23	.023	.10	.017

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LAB NO. : 5645/54
CC: MacLead/Hall

ANALYTICAL METHODS: Au, Ag - Fire Analyses (1 A.T.)
Au - No-roast Cy Leach A.A.

SAMPLE #	Fire Au(oz/ton)	Fire Ag(oz/ton)	NR/Cy Au(oz/ton)
MUCH-24	.024	.05	.022
MUCH-25	.029	-.05	.028
MUCH-26	.018	-.05	.018
MUCH-27	.014	.10	.011
MUCH-28	.098	-.05	.085
MUCH-29	.034	-.05	.029
MUCH-30	.060	-.05	.037
MUCH-31	.038	-.05	.024
MUCH-32	.029	-.05	.017
MUCH-33	.029	-.05	.025
MUCH-34	.019	-.05	.019
MUCH-35	.023	.05	.017
MUCH-36	.034	-.05	.022
MUCH-37	.024	-.05	.017
MUCH-38	.053	-.05	.038
MUCH-39	.045	-.05	.043
MUCH-40	.076	.05	.069
MUCH-41	.081	.05	.060
MUCH-42	.153	.10	.102
MUCH-43	.210	.05	.089
MUCH-44	.224	.10	.139
MUCH-45	.142	.05	.119
MUCH-46	.125	.05	.092
MUCH-47**	.084	-.05	.074
BULK-42RR	.216	-.05	.117
BULK-43RR	.155	.05	.086
BULK-44RR	.161	.20	.135
BULK-45RR	.246	.10	.125
BULK-46RR**	.162	-.05	.095
MUCK-42B1RR	.235	.05	.200

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CLIENT ORDER NO.:
INVOICE NO.: 12921
LAB NO. : 5645/54
CC: MacLead/Hall

ANALYTICAL METHODS: Au, Ag - Fire Analyses (1 A.T.)
Au - No-roast Cy Leach A.A.

SAMPLE #	Fire Au(oz/ton)	Fire Ag(oz/ton)	NR/Cy Au(oz/ton)
MUCK-43B1RR	.324	.05	.177
MUCK-44B1RR	.239	.10	.112
MUCK-45B1RR	.260	.10	.140
MUCK-46B1RR**	.167	-.05	.117
MUCK-42B2RR	.201	.05	.195
MUCK-43B2RR	.278	.10	.169
MUCK-44B2RR	.318	.10	.176
MUCK-45B2RR	.241	.05	.162
MUCK-46B2RR**	.178	.05	.096
B1-M-2	.044	-.05	.042
B1-M-3	.066	-.05	.056
B1-M-4	.028	-.05	.027
B1-M-5	.026	-.05	.024
B1-M-6	.028	-.05	.023
B1-M-7	.044	.10	.038
B1-M-8	.058	-.05	.054
B1-M-9	.097	-.05	.073
B1-M-10	.086	-.05	.065
B1-M-11	.044	-.05	.042
B1-M-12	.048	-.05	.040
B1-M-13	.092	-.05	.076
B1-M-14	.077	.05	.065
B1-M-15	.125	-.05	.045
B1-M-16	.041	-.05	.028
B1-M-17	.035	-.05	.030
B1-M-18	.031	-.05	.024
B1-M-19	.039	.05	.031
B1-M-20	.041	-.05	.034
B1-M-21	.030	.05	.024
B1-M-22	.049	-.05	.035

Monitor Geochemical Laboratory, Inc.
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Certificate of Analysis

CLIENT: Lacana Mining Inc.
ATTENTION:

DATE: 9-13-84
CLIENT ORDER NO.:
INVOICE NO.: 12921
LAB NO. : 5645/54
CC: MacLead/Hall

ANALYTICAL METHODS: Au, Ag - Fire Analyses (1 A.T.)
Au - No-roast Cy Leach A.A.

SAMPLE #	Fire Au(oz/ton)	Fire Ag(oz/ton)	NR/Cy Au(oz/ton)
B1-M-23	.027	-.05	.024
B1-M-24	.025	-.05	.019
B1-M-25	.023	.05	.021
B1-M-26	.025	.05	.014
B1-M-27	.016	-.05	.014
B1-M-28	.033	.05	.028
B1-M-29	.050	-.05	.039
B1-M-30	.047	.05	.042
B1-M-31	.043	.05	.038
B1-M-32	.029	.10	.029
B1-M-33	.026	.05	.018
B1-M-34	.019	.05	.016
B1-M-35	.022	-.05	.022
B1-M-36	.018	-.05	.018
B1-M-37	.032	.05	.026
B1-M-38	.032	.05	.029
B1-M-39	.040	-.05	.038
B1-M-40	.070	.05	.067
B1-M-41	.099	.05	.080
B1-M-42	.202	.05	.134
B1-M-43	.424	.20	.270
B1-M-44	.259	.10	.170
B1-M-45	.363	.15	.191
B1-M-46	.195	.15	.101
B1-M-47**	.076	.10	.075
B3-M-29**	.049	.10	.036
COL-1,MUCK 9-1	.070	.05	.068
COL-1,MUCK 9-2	.080	-.05	.057
COL-1,MUCK 9-3	.065	-.05	.059
COL-1,MUCK 9-4	.058	-.05	.056

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CLIENT: Lacana Mining Inc.
ATTENTION:

DATE: 9-13-84
CLIENT ORDER NO.:
INVOICE NO.: 12921
LAB NO. : 5645/54
CC: MacLead/Hall

ANALYTICAL METHODS: Au, Ag - Fire Analyses (1 A.T.)
Au - No-roast Cy Leach A.A.

SAMPLE #	Fire Au(oz/ton)	Fire Ag(oz/ton)	NR/Cy Au(oz/ton)
COL-1,MUCK 9-5*	.078	-.05	.062
COL-1,MUCK 8-6	.061	.10	.045
COL-1,MUCK 8-7	.057	.20	.048
COL-1,MUCK 8-8	.041	-.05	.035
COL-1,MUCK 8-9	.060	-.05	.053
COL-1,MUCK 8-10	.059	.10	.046
COL-1,MUCK 8-11	.064	.20	.056
COL-1,MUCK 8-12	.047	.10	.042
COL-1,MUCK 8-13	.045	.10	.040
COL-1,MUCK 8-14	.051	.20	.045
COL-2-MUCK 15-1	.042	.10	.036
COL-2-MUCK 15-2	.044	.10	.040
COL-2-MUCK 15-3	.039	.05	.035
COL-2-MUCK 15-4	.044	.05	.040
COL-2-MUCK 15-5	.046	.05	.041
COL-2-MUCK 15-6	.049	-.05	.045
COL-2-MUCK 15-7	.045	-.05	.039
COL-2-MUCK 15-8	.051	.05	.048
COL-2-MUCK 15-9	.049	.05	.046
COL-2-MUCK 15-10	.048	-.05	.045
COL-2-MUCK 15-11	.046	-.05	.040
COL-2-MUCK 15-12	.049	-.05	.043
COL-2-MUCK 15-13	.048	.10	.045
COL-2-MUCK 15-14	.037	-.05	.036
COL-2-MUCK 15-15	.036	.10	.034
COL-2-MUCK 15-16**	.040	-.05	.038
COL-3,MUCK 11-1	.053	-.05	.050
COL-3,MUCK 11-2	.049	-.05	.048
COL-3,MUCK 11-3	.047	-.05	.037
COL-3,MUCK 11-4	.027	-.05	.023

Monitor Geochemical Laboratory, Inc.
P.O. Box 1901 * Elko, Nevada 89801 * (702) 738-3236

Certificate of Analysis

CLIENT: Lacana Mining Inc.
ATTENTION:

DATE: 9-13-84
CLIENT ORDER NO.:
INVOICE NO.: 12921
LAB NO. : 5645/54
CC: MacLead/Hall

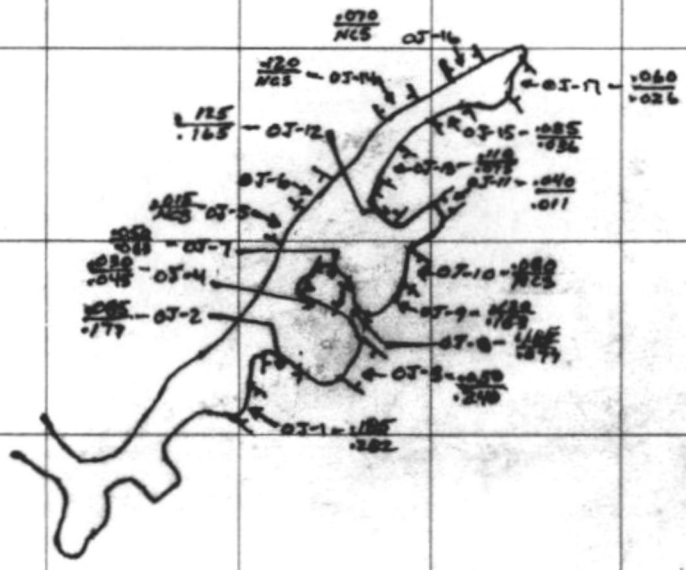
ANALYTICAL METHODS: Au, Ag - Fire Analyses (1 A.T.)
Au - No-roast Cy Leach A.A.

SAMPLE #	Fire Au(oz/ton)	Fire Ag(oz/ton)	NR/Cy Au(oz/ton)
COL-3, MUCK 11-5	.036	-.05	.032
COL-3, MUCK 11-6	.027	-.05	.024
COL-3, MUCK 11-7	.050	-.05	.045
COL-3, MUCK 11-8	.056	.10	.042
COL-3, MUCK 11-9	.043	-.05	.040
COL-3, MUCK 11-10	.037	.10	.035
COL-3, MUCK 11-11	.038	-.05	.033
COL-3, MUCK 11-12	.039	-.05	.033
COL-4, MUCK 12-1	.050	-.05	.047
COL-4, MUCK 12-2	.027	-.05	.025
COL-4, MUCK 12-3	.051	.05	.047
COL-4, MUCK 12-4	.032	-.05	.026
COL-4, MUCK 12-5	.039	.05	.034
COL-4, MUCK 12-6	.032	-.05	.030
COL-4, MUCK 12-7	.030	.05	.024
COL-4, MUCK 12-8	.059	-.05	.029
COL-4, MUCK 12-9	.037	-.05	.036
COL-4, MUCK 12-10	.034	-.05	.025
COL-4, MUCK 12-11	.029	-.05	.026
COL-4, MUCK 12-12	.031	.05	.025
COL-4, MUCK 12-13	.023	-.05	.020
COL-3, MOISTURE-	.002	.05	-.002
MUCK 12-MOISTUR	.042	-.05	.032
MUCK 15-MOISTUR	.042	-.05	.039
	324	324	324

Joseph D. Koch
General Manager

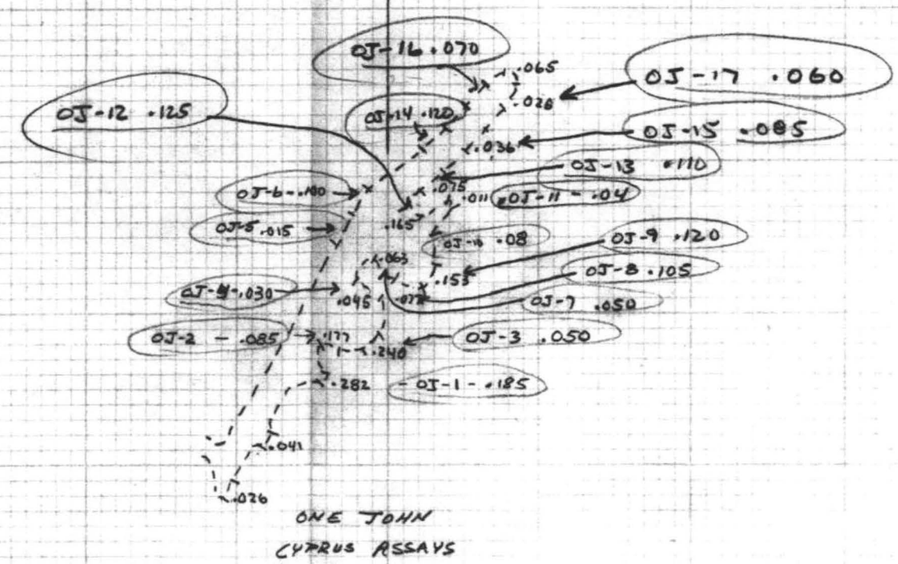
*Greater than 1000 ppm reported as percent(Assay)
**Break in numerical sequence

ONE JOHN ADIT
1" = 50'
RIB SAMPLE LOCATIONS



.105 Au opt LGI Sample
.077 Au opt Cyprus Sample

LS #0 Cyprus Sample



ONE JOHN
CYPRUS ASSAYS

Monitor Geochemical Laboratory, Inc.
P.O. Box 1901 * Elko, Nevada 89801 * (702) 738-3236

Certificate of Analysis

CLIENT: Lacana Mining Inc.
ATTENTION: Rod MacLeod

DATE: 8-3-84
CLIENT ORDER NO.:
INVOICE NO.: 12527-
LAB NO. : 4907
CC: Rith Hall-Id.

ANALYTICAL METHODS: Au, Ag - Fire Analyses (1 A.T.)
Au - No-roast Cy Leach A.A.

SAMPLE #	Fire Au(oz/ton)	Fire Ag(oz/ton)	NR/Cy Au(oz/ton)	
1623	.016	.10		
1624	.052	.20	.035	67.3% ✓
1625	.014	.20		
1627	.014	.05		
1633	.018	.05		
1637	.069	-.05	.049	71.01%
1638	.047	-.05	.037	78.72
1640	.034	.20	.024	70.59% ✓
1641	.018	.15		
1642	.043	.15	.039	90.70% -
1643 Main Pit	.021	.10	.018	85.71% -
1644	.016	.20		
1645 Area	.025	.10	.022	88% -
1646	.031	.05	.025	80.65%
1647	.030	-.05	.028	93.33%
1648	.051	.10	.050	98.04% -
1653	.004	.05		
1654	.015	-.05		
1655	.005	.05		
1656	.018	.10		
1657	.007	.05		
1660	.020	-.05	.019	95.00%
1661	.022	.15	.015	68.20% ✓
1662	.038	.05	.027	71.05%
1663	.034	-.05	.028	82.35%
1668	.040	-.05	.031	77.50%
1674	.228	.45	.192	84.21% -
1675	.129	.45	.100	77.52% -
1678	.021	.30	.017	80.95% -
1682**	.018	.15		

SURFACE ROCK CHIP MAIN PIT AREA

Monitor Geochemical Laboratory, Inc.
P.O. Box 1901 * Elko, Nevada 89801 * (702) 738-3236

Certificate of Analysis

CLIENT: Lacana Mining Company
ATTENTION:

DATE: 5-18-84
CLIENT ORDER NO.:
INVOICE NO.: 11828
LAB NO. : 4067
CC:

ANALYTICAL METHODS: Au - Fire Analyses (1 A.T.)
Au - No-roast Cy Leach A.A.

DGE-5

SAMPLE #	Fire Au(oz/ton)	NR/Cy Au(oz/ton)
730	.045	.036
731	.073	.068
732	.029	.025
733	.038	.036
	4	4

Janet A Walsh

Janet A. Walsh
Analyst

*Greater than 1000 ppm reported as percent(Assay)
**Break in numerical sequence

Monitor Geochemical Laboratory, Inc.
P.O. Box 1901 * Elko, Nevada 89801 * (702) 738-3236

Certificate of Analysis

CLIENT: Lacana Mining Inc.
ATTENTION: P. Dircksen-R. Hall

DATE: 5-7-84
CLIENT ORDER NO.:
INVOICE NO.: 11753
LAB NO. : 3986
CC:

ANALYTICAL METHODS: Au - Fire Analyses (1 A.T.)
Au - Roasted Acid Digestion A.A.
Au - No-roast Cy Leach A.A.

DGE-10 Dakota Mine Pit area

SAMPLE #	Fire Au(oz/ton)	R/Acid Au(oz/ton)	NR/Cy Au(oz/ton)	SHMC
1470 - 325-400	.044	.149	.019	.045 OPT Au
1471 - 400-405	.060	.075	.040	.065
1472 - [illegible]	.059	.055	.020	.050
1473 - 415	.108	.112	.063	.105
1474 - 420	.066	.081	.019	.060
1475 - 425	.042	.041	.034	.050
1476 - [illegible]	.047	.048	.038	.045
1477 - [illegible]	.127	.120	.092	.110
1478 - 440	.325	.156	.135	.275
1479 - 445	.135	.155	.088	.170
1480 - 450	.159	.164	.087	.160 / .135
1481 - 455	.167	.163	.133	.175
1482 - 460	.050	.050	.037	.045
	13	13	13	

Au Fire Assays

Janet A Walsh
Janet A. Walsh
Analyst

NOTE: Check analyses indicate free gold.

*Greater than 1000 ppm reported as percent (Assay)
**Break in numerical sequence

Monitor Geochemical Laboratory, Inc.

Certificate of Analysis

Client: Lacana Mining Inc.
2005 Ironwood Parkway, Rm. 105
Coeur d'Alene, Idaho, 83814

Analytical Methods: Au, Ag, Fire Analyses (1 A.T.)
Au, N/R Cy Leach A.A.

Date: Jan. 19, 1984
Client Order No.:
Invoice No.: 11430 Lab #3678
cc: Paul Dircksen

	SAMPLE #	Ave	S.V. Fire	Fire Au(oz/ton)	(SV vs. Ave)	Fire Ag(oz/ton)		N/R Cy Au(oz/ton)	
Estimate	RGE-37-0-5	.022	.008	.037	<.029>	.05		.019	51 %
	5-10**	.039	.044	.034	+.010	.05		.020	60 %
	25-30	.022	.028	.016	+.012	.05		.011	69
	30-35	.022	.014	.033	<.013>	-.05		.025	76
	35-40	.024	.032	.017	+.015	-.05	mixed	.015	88
	40-45	.016	.020	.012	+.008	-.05		.010	83
	45-50	.011	.016	.006	+.010	-.05		.006	100
	50-55	.008	.012	.005	+.007	-.05		.004	80
	55-60	.008	.012	.004	+.008	-.05		.002	50
pit bottom	60-65	.008	.010	.006	+.004	-.05		.004	67
	65-70	.009	.010	.008		-.05	mixed	.006	75
	70-75	.015	.016	.015		.10		.012	80
	75-80	.016	.018	.015		-.05		.011	73
	80-85	.012	.012	.012		-.05		.004	33
	85-90	.015	.018	.013		-.05		.010	77
	90-95	.023	.020	.026		-.05	oxide	.023	89
	95-100	.016	.018	.015		-.05		.008	53
	100-105	.051	.052	.051		.05		.022	43
	105-110	.018	.018	.018		.10		.010	56
	110-115	.031	.028	.034		.10	mixed	.020	59
	115-120	.015	.016	.014		-.05		.008	57
	120-125	.015	.016	.014		-.05		.006	43
	125-130	.010	.014	.006		-.05		.003	50
	130-135	.010	.010	.010		.05		.005	50
	135-140	.019	.020	.018		.05	sulfide	.014	78
	140-145	.011	.010	.013		.05		.006	46
	145-150	.004	.002	.006		-.05		.003	50
	150-155	.009	.012	.006		.05		.002	33
	155-160	.022	.024	.020		.05		.013	65
	RGE-37-160-165	.029	.030	.029		.05		.015	52

*Greater than 1000 ppm reported as percent (Assay)
**Break in numerical sequence

P.O. Box 1901 • Elko, Nevada 89801 • (702) 738-3236

7; .015 in pit

Lacana Mining Inc.

Invoice #11430 Lab #3678

Jan. 19, 1984

SAMPLE #	Fire Au(oz/ton) Assay	Fire Au(oz/ton) Ave	Fire Ag(oz/ton)	N/R Cy Au(oz/ton)	
RGE-37-165-170	.040.031	.035	.15	.019	[illegible]
170-175	.062.064	.063	.15	.055	[illegible]
175-180	.054.050	.052	.15	.035	[illegible]
180-185	.071.050	.065	.10	.046	[illegible]
185-190	.094.092	.093	.10	.064	[illegible]
190-195	.074.067	.060	.05	.038	57
195-200	[illegible].083	[illegible]	.10	.054	65
200-205	[illegible].048	[illegible]	.10	.019	[illegible]
205-210	.020.024	[illegible]	.30	.013	[illegible]
210-215	.020.029	.029	.25	.013	[illegible]
215-220	.02[illegible].024	.02[illegible]	.30	.014	[illegible]
220-225	.054.050	.052	.70	.021	[illegible]
225-230	.052.048	.050	.50	.028	58
230-235	.054.055	.054	.70	.026	47
235-240	.058.062	.060	.50	.027	44
240-245	.048.052	.050	.10	.033	[illegible]
245-250	.071.076	.074	.25	.051	[illegible]
250-255	.082.078	.080	.10	.061	[illegible]
255-260	.058.054	.056	.05	.034	[illegible]
RGE-37-260-265	.056.055	.055	.05	.041	[illegible]
RGE-37-265-270	.072.072	.075	.10	.057	[illegible]
270-275	.086.078	.082	.15	.057	[illegible]
275-280	.030.028	.029	.10	.018	44
280-285	.040.034	.037	-.05	.023	[illegible]
285-290	.036.036	.036	.05	.022	[illegible]
290-295	.044.042	.043	.05	.027	[illegible]
295-300	.042.042	.042	.25	.027	64
RGE-37-300-305	.064.060	.062	.35	.043	72

A. L. Koch
Laboratory Manager

*Greater than 1000 ppm reported as percent (Assay)
**Break in numerical sequence

Monitor Geochemical Laboratory, Inc.

Certificate of Analysis

Client: Lacana Mining Inc.
2005 Ironwood Parkway, Room 105
Coeur d'Alene, Idaho 83814

Analytical Methods: Au, Ag, Fire Analyses
Au, N/R Cy Leach A.A.

Date: Jan. 23. 1984
Client Order No.:
Invoice No.: 11440 Lab #3679/3682
CC: Paul Dircksen

SAMPLE #	Fire Au(oz/ton)	Fire Ag(oz/ton)	N/R Cy Au(oz/ton)	
RGE-38- 0- 5	.022	.25	.020	
5- 10	.073	.20	.048	
10- 15	.098	.30	.088	
15- 20	.081	.40	.058	
20- 25	.041	.55	.031	
25- 30	.063	.30	.050	
30- 35	.053	.35	.049	
35- 40	.019	.35	.017	
40- 45	.036	.15	.025	
45- 50	.052	.40	.042	
50- 55	.050	.25	.039	
55- 60	.021	.45	.020	
60- 65	.040	.05	.030	
65- 70**	.047	.10	.036	
75- 80	.022	-.05	.018	
80- 85	.028	.10	.024	
85- 90	.066	.05	.047	
90- 95	.033	.10	.031	
95-100	.034	.10	.020	
100-105	.030	.10	.023	
105-110	.028	.05	.020	
110-115	.037	.10	.028	
115-120	.023	.10	.030	
120-125	.038	.10	.028	
125-130	.100	.15	.078	
130-135	.064	.30	.050	
135-140	.081	.70	.042	
140-145	.030	.15	.005	
145-150	.029	.25	.004	
RGE-38-150-155	.029	.20	.008	

076/26 samples

79.8%

*Greater than 1000 ppm reported as percent (Assay)
**Break in numerical sequence

P.O. Box 1901 • Elko, Nevada 89801 • (702) 738-3236

Lacana Mining Inc.

Invoice #11440 Lab #3679/3682

January 23, 1984

SAMPLE #	Fire Au(oz/ton)	Fire Ag(oz/ton)	N/R Cy Au(oz/ton)
RGE-38-155-160	.033	.20	.004
160-165	.028	.20	.005
165-170	.016	.15	.004
170-175	.016	.15	.004
175-180	.034	.30	.014
180-185	.110	.80	.043
185-190	.013	.05	.006
190-195	.015	.05	.006
195-200	.014	.05	.005
200-205	.032	.30	.004
205-210	.059	.30	.043
210-215	.033	.10	.018
215-220	.115	.40	.052
220-225	.077	.15	.035
225-230	.066	.10	.022
230-235	.035	.10	.015
235-240	.044	.10	.019
240-245	.019	.15	.009
245-250	.026	.10	.014
250-255	.034	.15	.018
255-260	.019	.05	.005
260-265	.032	.15	.019
265-270	.063	.20	.038
270-275	.155	.20	.044
275-280	.073	.10	.065
280-285	.121	.25	.078
285-290	.052	.20	.042
290-295	.047	.20	.044
295-300	.042	.05	.041
RGE-38-300-305**	.026	.20	.023
RGE-39- 0- 5	.003	.05	.002
5- 10	.014	.50	.013
10- 15	.009	.35	.008
15- 20	.022	.35	.020
20- 25	.010	.75	.008
25- 30	.004	.15	.004
30- 35	.016	.15	.006
35- 40	.019	.20	.013
40- 45	.006	.20	.004
RGE-39- 45- 50	.017	.20	.015

SAMPLE #	Fire Au(oz/ton)	Fire Ag(oz/ton)	N/R Cy Au(oz/ton)
RGE-39- 50- 55	.051	.40	.032
55- 60	.049	.25	.031
60- 65	.016	.25	.012
65- 70	.010	.25	.008
70- 75	.010	.20	.010
75- 80	.008	.20	.007
80- 85	.019	.30	.016
85- 90	.023	.25	.022
90- 95	.010	.30	.009
95-100	.011	.25	.010
100-105	.008	.25	.008
105-110	.020	.25	.017
110-115	.008	.20	.006
115-120	.010	.10	.009
120-125	.020	.10	.016
125-130	.025	.15	.014
130-135	.013	.10	.013
135-140	.015	.15	.011
140-145	.015	.25	.011
145-150	.043	.20	.035
150-155	.026	.25	.018
155-160	.013	.15	.011
160-165	.081	.10	.042
165-170	.045	.20	.035
170-175	.065	.10	.064
175-180	.032	.15	.020
180-185	.035	.25	.031
185-190	.014	.35	.005
190-195	.024	.35	.011
195-200	.030	.15	.016
RGE-39-200-205**	.026	.10	.021
RGE-40- 0- 5	.045	.55	.022
5- 10	.064	.60	.050
10- 15	.016	.55	.011
15- 20	.022	.55	.015
20- 25	.014	.35	.009
25- 30	.012	.45	.006
30- 35	.039	.45	.024
35- 40	.039	.45	.024
RGE-40- 40- 45	.094	.40	.080

*Greater than 1000 ppm reported as percent (Assay)
**Break in numerical sequence

Lacana Mining Inc.

Invoice #11440 Lab #3679/3682

January 23, 1984

SAMPLE #	Fire Au(oz/to)	Fire Ag(oz/ton)	N/R Cy Au(oz/ton)	SAMPLE #	Fire Au(oz/ton)	Fire Ag(oz/ton)	N/R Cy Au(oz/ton)
RGE-40- 45- 50	.011	.15	.007	RGE-40-250-255	.026	.30	.015
50- 55	.006	.45	.004	255-260	.026	.35	.017
55- 60	.008	.35	.006	260-265	.030	.40	.012
60- 65	.009	.35	.007	265-270	.026	.40	.020
65- 70	.030	.40	.019	270-275	.010	.25	.007
70- 75	.014	.50	.010	275-280	.211	.50	.028
75- 80	.037	.40	.015	280-285	.026	.35	.010
80- 85	.020	.35	.020	285-290	.045	.30	.045
85- 90	.052	.40	.049	290-295	.064	.10	.040
90- 95	.028	.40	.018	295-300	.062	.40	.043
95-100	.016	.35	.011	RGE-40-300-305**	.111	.55	.093
100-105	.009	.35	.007	RGE-41- 0- 5	.018	.25	.013
105-110	.008	.35	.005	5- 10	.012	.40	.009
110-115	.005	.40	.003	10- 15	.012	.40	.010
115-120	.082	.30	.067	15- 20	.054	.40	.050
120-125	.010	.25	.006	20- 25	.084	.30	.074
125-130	.042	.25	.031	25- 30	.091	.35	.081
130-135	.023	.30	.015	30- 35	.118	.45	.116
135-140	.028	.40	.022	35- 40	.218	.35	.175
140-145	.036	.35	.027	40- 45	.021	.30	.017
145-150	.268	.25	.180	45- 50	.089	.35	.076
150-155	.207	.40	.106	50- 55	.068	.35	.064
155-160	.081	.50	.060	55- 60	.023	.25	.021
160-165	.012	.25	.010	60- 65	.043	.35	.040
165-170	.059	.30	.047	65- 70	.035	.40	.035
170-175	.055	.50	.041	70- 75	.026	.30	.020
175-180	.070	.30	.048	75- 80	.059	.30	.043
180-185	.020	.20	.016	80- 85	.042	.30	.034
185-190	.040	.30	.028	85- 90	.082	.25	.077
190-195	.061	.15	.052	90- 95	.084	.30	.076
195-200	.027	.50	.022	95-100	.028	.35	.025
200-205	.026	.30	.024	100-105	.037	.45	.028
205-210	.036	.30	.026	105-110	.119	.35	.095
210-215	.025	.35	.021	110-115	.033	.35	.028
215-220	.013	.25	.011	115-120	.059	.35	.051
220-225	.003	.25	.003	120-125	.058	.30	.050
225-230	.003	.20	.002	125-130	.024	.30	.017
230-235	.004	.25	.003	130-135	.033	.25	.029
235-240	.009	.20	.008	135-140	.022	.35	.014
240-245	.033	.25	.018	140-145	.050	.35	.024
RGE-40-245-250	.050	.45	.041	RGE-41-145-150	.043	.40	.037

*Greater than 1000 ppm reported as percent (Assay)

**Break in numerical sequence

Lacana Mining Inc.

Invoice #11440 Lab #3679-3682

January 23, 1984

SAMPLE #	Fire Au(oz/ton)	Fire Ag(oz/ton)	N/R Cy Au(oz/ton)	
RGE-41-150-155	.028	.40	.015	54
155-160	.018	.35	.017	74
160-165	.032	.35	.029	91
165-170	.038	.35	.024	63
170-175	.025	.35	.017	65
175-180	.076	.30	.073	96
180-185	.126	.30	.100	79
185-190	.246	.25	.205	83
190-195	.087	.20	.079	11
195-200	.072	.45	.064	67
200-205	.084	.35	.069	[illegible]
205-210	.030	.35	.019	[illegible]
210-215	.055	.55	.027	49
215-220	.082	.40	.020	24
220-225	.021	.25	.010	45
225-230	.010	.15	.003	30
230-235	.011	.20	.007	64
235-240	.030	.35	.018	[illegible]
240-245	.012	.45	.010	83
245-250	.018	.40	.013	72
250-255	.012	.40	.007	55
255-260	.018	.30	.007	39
260-265	.050	.35	.022	44
265-270	.026	.35	.009	35
270-275	.022	.20	.006	27
275-280	.024	.20	.005	21
280-285	.012	.25	.008	67
285-290	.017	.20	.009	53
290-295	.011	.30	.007	64
295-300	.031	.25	.008	26
RGE-41-300-305	.051	.30	.021	41

A. L. Koch
Laboratory Manager

*Greater than 1000 ppm reported as percent (Assay)
**Break in numerical sequence

Monitor Geochemical Laboratory, Inc.
P.O. Box 1901 • Elko, Nevada 89801 • (702) 738-3236

Certificate of Analysis

CLIENT: Lacana Mining Inc.
ATTENTION: Rich Hall

DATE: 7-19-84
CLIENT ORDER NO.:
INVOICE NO.: 12357
LAB NO. : 4771
CC: MacLeod-S.D.

ANALYTICAL METHODS: Au, Ag - Fire Analyses (1 A.T.)
Au - No-roast Cy Leach A.A.

SAMPLE #	Fire Au(oz/ton)	Fire Ag(oz/ton)	NR/Cy Au(oz/ton)
1563	.007	-.05	
1564	.010	.15	
1567	.012	.10	
1570	.019	.25	
1574	.024	.05	.007
1575	.019	.10	
1576	.020	.10	.013
1577	.010	-.05	
1582	.015	.10	
1590	.003	-.05	
1601	.093	.10	.083
1602	.035	.15	.024
1603	.032	.05	.018
1604	.028	.10	.024
1605	.024	.10	.023
1606	.025	.10	.013
1607	.003	.20	
1608	.006	.20	
1609	.126	.05	.089
1611	.010	-.05	
1612	.008	-.05	
1613	.031	.05	.024
1614	.013	-.05	
1615	.002	-.05	
1616	.011	-.05	
1617	.007	-.05	
1619	.070	.20	.057
1620	.100	.40	.075

NORWICH

MAIN PIT AREA

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Au - No-roast Cy Leach A.A.

SAMPLE #	Fire Au(oz/ton)	Fire Ag(oz/ton)	NR/Cy Au(oz/ton)
1621	.010	.45	[redacted]
1622	.011	.30	
	30	30	12

MAIN PIT AREA

Joseph D. Koch
General Manager

*Greater than 1000 ppm reported as percent (Assay)
**Break in numerical sequence