McCLELLAND LABORATORIES, INC.

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August 5, 2011

Mr. Scott Jolcover
Comstock Mining, Inc.
P.O. Box 1118
Virginia City, NV 89440

Dear Scott:

Enclosed is our report concerning metallurgical results from 68 bottle roll tests (bulk ore, core comps and cuttings comps) and 20 column leach tests conducted on 9 bulk ore samples/composites and 1 core composite. Ore samples for this report were receive in late 2010 and early 2011. A summary report for earlier bottle roll tests and 3 column leach tests (MLI Job No.'s 3273 and 3439) was submitted January 14, 2011.

Our invoice for this formal written report will be sent under separate cover.

Additional core intervals were received from April through June, 2011 for metallurgical and environmental testwork. Core intervals for metallurgy were prepared and submitted for interval assay, but compositing instructions have not been issued by Comstock Mining personnel. Consequently, metallurgical tests have not been initiated. All environmental testwork and analyses requested is complete and tabulated data has been provided. Environmental data can be provided in a separate report if Comstock Mining needs a formal written report.

We appreciate the opportunities to serve Comstock Mining, and wish you the best in brining the project to commercial production.

Sincerely,

Gene E. McClelland
Metallurgist/President

GEM:mh
Enclosure

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Report
on
Heap Leach Phase Metallurgical Evaluation - Principally Bulk Ore Samples from the Comstock Mining Lucerne Project
MLI Job No. 3439
August 5, 2011

for

Mr. Scott Jolcover
Comstock Mining, Inc.
P.O. Box 1118
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EXECUTIVE SUMMARY

A total of 11 bulk ore samples obtained from Dayton, Hartford and Lucerne Mining areas were received late November, 2011 for heap leach cyanidation testwork to determine leachability and to optimize crush size for commercial heap leach processing. Intervals from two core holes (PC10-07+08) were also received for the same scope of work. The core hole composite (PC10-07, 08) was to represent mineable ore beneath areas of bulk sample acquisition to determine that metallurgical results from bulk ore samples would represent results from ore at depth. It was later determined that the core composite was “highly siliceous” and did not represent mineable ore rock types. Consequently, the acquisition of core at depth which will represent mineable ore similar to bulk ore samples evaluated remains necessary.

In April, 2011, 31 drill cuttings composites and 13 core composites were received for preliminary bottle roll cyanidation tests. None of these 44 composites were identified by rock type or mining area. Some of the 13 core composites were used for environmental characterization tests and analyses.

General scope of work sequences for each “batch” of samples/composites received is summarized below.

Bulk Ore Samples and Core Composite PC10-07, 08

- Interval and bulk ore sample preparation and head assays
- Prepare the PC10-07, 08 core composite
- Bottle roll tests (BT) at P_{80}2" and P_{80}1/2" crush sizes
- Column leach tests (CT) at P_{80}1" and P_{80}1/2" crush sizes
  Note: BT results indicated that P_{80}2" feeds did not respond acceptably, so a P_{80}1" crush size was selected by MLI and Comstock Mining personnel as the coarsest feed size for CT's.
- Head and tail screen analyses on feeds at each crush size and all column leached residues

31 Cuttings Composites

- Interval preparation and interval assays
- Composite preparation
- BT's at the as received (-1/2") feed size

13 Core Composites

- Interval preparation (assays provided by Comstock)
- Composite preparation
- BT's @ P_{80}1" crush size
- Some composites selected for environmental characterization

All composites were prepared on a weighted basis and composite make-up information will be kept on file at MLI, but is not included in this report.

Summary BT results for the 11 bulk ore samples and the core composites are provided in Table 1.

Table 1. - Summary Metallurgical Results, Bottle Roll Tests, Comstock Bulk Ore Samples (1 Core Comp), Varied Crush Sizes

Bulk Ore I.D.	Crush Size, 80% Passing	Rock Type	Extracted, oz/ton ore		Tail Assay, oz/ton		Calc'd. Head, oz/ton ore		Recovery, percent		Reagent Consumption, lb/ton ore	
			Au	Ag	Au	Ag	Au	Ag	Au	Ag	NaCN	Lime (added)
DA-001 LG	2"	Mix[1)]	0.0143	0.07	0.0148	0.17	0.0291	0.24	49.1	29.2	<0.05	2.0
DA-001 LG	1/2"	Mix[1)]	0.0159	0.08	0.0137	0.13	0.0296	0.21	53.7	38.1	0.16	4.2
DP-004 MG	2"	AA	0.0494	0.21	0.0170	0.61	0.0664	0.82	74.4	25.6	0.24	10.5
DP-004 MG	1/2"	AA	0.0469	0.27	0.0080	0.51	0.0549	0.82	85.4	34.6	0.19	10.5
DP-005 MG/HG	2"	AA	0.0801	0.18	0.0433	0.60	0.1234	0.78	64.9	23.1	<0.05	5.2
DP-005 MG/HG	1/2"	AA	0.0990	0.26	0.0332	0.46	0.1322	0.72	74.9	36.1	0.21	5.5
HM-011 LG	2"	QP	0.0090	0.34	0.0067	0.33	0.0157	0.67	57.3	50.7	<0.05	2.9
HM-011 LG	1/2"	QP	0.0139	0.46	0.0053	0.23	0.0192	0.69	72.4	66.7	0.31	5.3
HM-009 LG/MG	2"	QP	0.0076	0.03	0.0190	0.22	0.0266	0.25	28.6	12.0	0.15	5.4
HM-009 LG/MG	1/2"	QP	0.0088	0.06	0.0123	0.15	0.0211	0.21	41.7	28.6	0.19	6.7
HM-013 MG	2"	MV	0.0157	0.12	0.0280	0.50	0.0437	0.62	35.9	19.4	<0.05	5.7
HM-013 MG	1/2"	MV	0.0228	0.20	0.0200	0.54	0.0428	0.74	53.3	27.0	0.15	8.4
HM-010 HG	2"	AA/QP[2)]	0.0375	0.40	0.1183	0.83	0.1558	1.23	24.1	32.5	<0.05	4.6
HM-010 HG	1/2"	AA/QP[2)]	0.0472	0.48	0.0787	0.55	0.1259	1.03	37.5	46.6	0.15	5.2
LM-006, 007 LG	2"	AA[3)]	0.0107	0.10	0.0060	0.21	0.0167	0.31	64.1	32.3	<0.05	3.8
LM-006, 007 LG	1/2"	AA[3)]	0.0124	0.16	0.0037	0.13	0.0161	0.29	79.5	55.2	0.19	7.7
LM-019, 020, 021 LG	2"	AA/QP[2)]	0.0094	0.08	0.0263	0.20	0.0357	0.28	26.3	28.6	0.09	5.3
LM-019, 020, 021 LG	1/2"	AA/QP[2)]	0.0133	0.13	0.0140	0.11	0.0273	0.24	48.7	54.2	0.14	14.5
LM-026, 027 LG	2"	AA/MN[4)]	0.0072	0.24	0.0093	1.32	0.0165	1.56	43.6	15.4	<0.05	2.2
LM-026, 027 LG	1/2"	AA/MN[4)]	0.0102	0.41	0.0090	1.35	0.0192	1.76	53.1	23.3	0.15	3.1
LM-010,011 HG	2"	QP[5)]	0.0936	0.54	0.1640	1.38	0.2576	1.92	36.3	28.1	<0.05	2.5
LM-010,011 HG	1/2"	QP[5)]	0.1385	0.72	0.0605	1.04	0.1990	1.76	69.6	40.9	0.20	3.1
PC10, 07, 08 MG	2"	N/A[6)]	0.0147	0.29	0.1120	1.50	0.1267	1.79	11.6	16.2	<0.05	1.0
PC10, 07, 08 MG	1/2"	N/A[6)]	0.0241	0.51	0.0257	0.70	0.0498	1.21	48.4	42.1	0.16	2.0

1) Breccia including AA, QP, RHY, Limonite and Mn.
2) Contact of AA & QP - HM-010 fault zone on contact with AA & QP.
3) Hanging wall (AA)
4) AA in fault zone with Mn
5) Silver City fault on contact with mostly QP
6) Core composite described as high silicification.

Many of the bulk ore samples were amenable to cyanidation at both crush sizes evaluated (P_{80}2" + 1/2"), but recoveries were higher for the 11 bulk ore samples and the core composite from P_{80}1/2" feeds. Summary BT results below are for P_{80}1/2" feed only (core composite data not included).

- Au grades ranged from 0.0161 to 0.1990 oz/ton of ore, and Au recoveries ranged from 37.5 to 85.4 percent. Au values were being extracted from most samples when leaching was terminated at 96 hours, and indicate that CT recoveries from 1/2" feeds will be higher than BT recoveries.
- Ag grades ranged from 0.21 to 1.76 oz/ton of ore, and recoveries ranged from 23.3 to 66.7 percent. For most samples, Ag was being extracted when leaching was terminated at 96 hours.
- NaCN consumptions were low, and ranged from 0.14 to 0.31 lbs/ton of ore. Consumption was lower for P_{80}2" feeds.

- Lime requirements (lime added) were generally moderate and ranged from 3.1 to 14.5 lbs/ton of ore. The 14.5 lb/ton requirement will be lower because an excess of lime was inadvertently added during the BT. Lime requirements were generally lower for 2" feeds.
- AA rock type recoveries were higher than for the MV rock type. Recoveries were lower for all bulk ore samples with QP in the rock type designation.
- The core composite (PC10-07, 08) was described as "highly siliceous", is a very small percentage of mineable ore, and was not representative of bulk ore samples evaluated. Consequently, results from the core composite should not be included in the project data base for ores mined for commercial heap leach production.

Summary BT results for the 31 cuttings composites are provided in Table 2.

Table 2. - Summary Metallurgical Results, Bottle Roll Test, Comstock Drill Cuttings Composites, As Received Feed Size (-1/2")

Cuttings	Extracted, oz/ton ore		Tail Assay, oz/ton		Calc'd. Head, oz/ton ore		Recovery, percent		Reagent Consumption, lb/ton ore	
Composite	Au	Ag	Au	Ag	Au	Ag	Au	Ag	NaCN	Lime (Added)
P10-92A, 15-45'	0.0109	0.157	0.0049	0.243	0.0158	0.400	69.0	39.2	0.14	5.1
P10-92B, 50-75'	0.0177	0.378	0.0160	0.920	0.0837	1.298	52.5	29.1	0.06	4.0
P10-93A, 0-65'	0.0105	0.182	0.0034	0.251	0.0139	0.433	75.5	42.0	0.29	5.6
P10-93B, 10-15'	0.0212	0.070	0.0230	0.101	0.0442	0.171	48.0	40.9	0.41	8.0
P10-94A, 75-95'	0.0059	0.194	0.0073	0.371	0.0132	0.565	44.7	34.3	0.14	2.9
P10-94B, 70-75'	0.0312	0.660	0.0063	0.756	0.0375	1.416	83.2	46.6	0.32	3.7
P10-95A, 50-105'	0.0155	0.195	0.0073	0.311	0.0228	0.506	68.0	38.5	0.31	4.4
P10-95B, 30-95'	0.0292	0.170	0.0140	0.200	0.0432	0.370	67.6	45.9	0.50	5.1
P10-96A, 5-60'	0.0110	0.076	0.0056	0.063	0.0166	0.139	66.3	54.7	0.37	8.5
P10-96B, 20-80'	0.0520	0.262	0.0102	0.321	0.0622	0.583	83.6	44.9	0.29	6.0
P10-97A, 0-100'	0.0095	0.123	0.0032	0.099	0.0127	0.222	74.8	55.4	0.43	7.9
P10-98A, 35-145'	0.0122	0.221	0.0104	0.091	0.0226	0.312	54.0	70.8	0.29	2.2
P10-98B, 30-130'	0.0379	0.229	0.0173	0.507	0.0552	0.806	68.7	37.1	0.14	3.0
P10-99A, 35-115'	0.0153	0.234	0.0031	0.178	0.0184	0.412	83.2	56.8	<0.05	3.1
P10-99B, 65-105'	0.0505	0.477	0.0166	0.947	0.0671	1.424	75.3	33.5	0.14	2.6
P10-100A, 50-120'	0.0138	0.259	0.0039	0.154	0.0177	0.413	78.0	62.7	0.29	3.1
P10-100B, 15-100'	0.0419	0.279	0.0145	0.595	0.0564	0.874	74.3	31.9	0.30	4.8
P10-102A, 80-100'	0.0158	0.254	0.0080	0.471	0.0238	0.725	66.4	35.0	0.15	3.6
P10-102B, 100-120'	0.0217	0.195	0.0276	0.737	0.0493	0.932	44.0	20.9	0.29	3.2
P10-103A, 20-70'	0.0084	0.058	0.0030	0.048	0.0114	0.106	73.7	54.7	0.15	5.5
P10-103B, 70-100'	0.0386	0.363	0.0103	0.560	0.0489	0.923	78.9	39.3	0.16	3.5
P10-104A, 10-60'	0.0073	0.046	0.0066	0.185	0.0139	0.231	52.5	19.9	0.16	5.8
P10-104B, 20-100'	0.0178	0.242	0.0120	0.469	0.0298	0.711	59.7	34.0	<0.05	4.8
P10-118A, 0-60'	0.0129	0.104	0.0043	0.189	0.0172	0.293	75.0	35.5	0.14	4.9
P10-118B, 5-45'	0.0206	0.077	0.0100	0.146	0.0306	0.223	67.3	34.5	0.30	4.6
P10-119A, 35-115'	0.0136	0.143	0.0118	0.214	0.0254	0.357	53.5	40.1	0.14	3.3
P10-119B, 30-120'	0.0265	0.176	0.0224	0.278	0.0489	0.454	54.2	38.8	<0.05	3.2
P10-120A, 15-60'	0.0109	0.136	0.0069	0.055	0.0178	0.191	61.2	71.2	0.28	4.8
P10-120B, 60-70'	0.0694	0.283	0.0539	0.250	0.1233	0.533	56.3	53.1	0.15	4.2
P10-120C, 80-110'	0.0313	0.287	0.0092	0.566	0.0405	0.853	77.3	33.6	0.16	3.3
P10-130A, 10-75'	0.0120	0.181	0.0081	0.392	0.0201	0.573	59.7	31.6	0.28	5.3

BT results show that, generally, the cuttings composites were amenable to cyanidation at the as received feed size (~ 1/2"). Cuttings composites were not identified by rock type. Results are summarized as follows:

- Au calculated head grades ranged from 0.0114 to 0.1233 oz/ton of ore. Gold recoveries ranged from 44.0 to 83.6 percent, and averaged 66.0 percent.
- Ag calculated head grades ranged from 0.106 to 1.424 oz/ton of ore. Silver recoveries ranged from 19.9 to 71.2 percent, and averaged 42.1 percent.
- NaCN consumptions were low and ranged from <0.05 to 0.50 lbs/ton of ore.
- Lime requirements were moderate to high and ranged from 2.2 to 8.5 lbs/ton of ore.

Summary BT results for the 13 core composites (LSCCLY and LSCMN likely not core comps) are provided in Table 3.

Table 3. - Summary Metallurgical Results, Bottle Roll Tests, Comstock Core Composites, P_{80}1" Feeds

Core	Extracted, oz/ton ore		Tail Assay, oz/ton		Calc'd. Head, oz/ton ore		Recovery, percent		Reagent Consumption, lb/ton ore	
Composite	Au	Ag	Au	Ag	Au	Ag	Au	Ag	NaCN	Lime (Added)
LSCCLY	0.0572	0.222	0.0757	0.630	0.1329	0.852	43.0	26.1	1.06	12.5
LSCMN	0.0300	0.858	0.0633	1.321	0.0933	2.179	32.2	39.4	0.45	6.0
PC11-08, 65-75'	0.2537	0.338	0.0053	0.065	0.2590	0.403	98.0	83.9	0.30	5.8
PC11-08, 95-120'	0.0182	0.163	0.0057	0.585	0.0239	0.748	76.2	21.8	0.16	4.3
PC11-08, 120-135'	0.0223	0.585	0.8000	0.728	0.8223	1.313	2.7	44.6	<0.05	2.6
EC11-01, 0-30'	0.0033	0.065	0.0020	0.160	0.0053	0.225	62.3	28.9	<0.05	2.2
EC11-01, 30-70'	0.0069	0.049	0.0220	0.207	0.0289	0.256	23.9	19.1	0.15	2.2
EC11-01, 70-90'	0.0016	0.016	0.0030	0.050	0.0046	0.066	34.8	24.2	0.30	2.2
EC11-01, 90-127'	0.0011	0.007	0.0007	0.033	0.0018	0.040	61.1	17.5	0.45	2.0
PC11-10, 0-20'	0.0023	0.019	<0.0010	0.009	<0.0033	0.028	>70	67.9	0.75	4.3
PC11-10, LG Comp	0.0028	0.006	0.0023	0.014	0.0051	0.020	54.9	30.0	0.76	6.0
PC11-10, HG Comp	0.0252	0.025	0.0140	0.017	0.0392	0.042	64.3	59.5	0.76	5.0
PC11-11, 75-90, 185-190'	0.0037	0.009	0.0123	0.035	0.0160	0.044	23.1	20.4	0.32	2.4

Summary results for these composites show Au recoveries "all over the board" and a summary statement about amenability to cyanidation at a P_{80}1" crush size cannot be made. Amenability has to be determined for each composite separately. Again, these composites were not identified by rock type. Results are summarized as follows:

- Au calculated head grades ranged from <0.0033 to 0.8223 oz/ton of ore. Gold recoveries ranged from 2.7 (PC11-08, 120-135') to 98.0 (PC11-08, 65-75'). MLI recommends that BT's be re-run on these 2 composites to confirm data. Head assay results for these composites were not provided and could not be compared to calculated head grades, so BT results remain in question.
- Ag calculated head grades ranged from 0.020 to 2.179 oz/ton of ore. Ag recoveries ranged from 17.5 to 83.9 percent, and averaged 37.2 percent.
- NaCN consumptions ranged from low (<0.05 lb/ton) to high (1.06 lb/ton).
- Lime requirements were also varied, and ranged from 2.0 (low) to 12.5 (high) lbs/ton of ore.

Summary CT results for the bulk ore samples and the core composite are provided in Table 4. It should be noted here that some of the bulk ore samples were composited on a 50:50% weight basis for the CT's: HM-009 and HM-013 were combined to produce the HM-MG composite; LM-019, 020, 021 and LM-026, 027 were combined to produce the LM-LG composite.

Some interesting and encouraging items for discussion resulted from BT and CT comparisons for the P_{80}1/2" bulk ore samples, and are summarized below.

A. CT recoveries were higher than BT recoveries
   1) CT gold recoveries averaged 11.0 percent higher than BT recoveries for P_{80}1/2" feeds.
   2) Average increase in Au recovery was 9.7 percent for bulk samples from the Dayton area; 15.3 percent for bulk samples from the Hartford area; and 8.0 percent for bulk samples from the Lucerne area.
   3) CT silver recoveries averaged 8.2 percent higher than BT recoveries for P_{80}1/2" feeds.
   4) Average increase in Ag recovery was 10.4 percent for Dayton bulk samples; 8.2 percent for Hartford bulk samples; and 6.0 percent for Lucerne bulk samples.
B. CT recoveries for P_{80}1" and P_{80}1/2" feeds were essentially the same for most bulk ore samples.
   1) Average Au and Ag recoveries from P_{80}1" feeds were 74.7 and 48.7 percent, respectively.
   2) Average Au and Ag recoveries from P_{80}1/2" feeds were 74.5 and 51.0 percent, respectively.
C. Grade, area and rock type trends (general)
   1) Grade - Au recovery decreased slightly with increase grade. There was no trend for Ag.
   2) Area - No trend was established for Au + Ag recovery versus mining area.
   3) Rock type - Au and Ag recoveries were better for AA and QP rock types than for the other rock types evaluated (Mix, QP/MV, AA/QP, AA/QP/MN).

Summary results for CT's are provided in Table 4.

Table 4. - Summary Metallurgical Results, Column Leach Tests, Comstock Bulk Ore Samples, Varied Crush Sizes

	Bulk Sample	Feed Size,	Test	Days	Extracted, oz/ton ore		Tail Screen, oz/ton		Calc'd. Head, oz/ton ore		Recovery, percent		Reagent Consumption, lb/ton ore	
	I.D.	P_{80}	#	Leached[1)]	Au	Ag	Au	Ag	Au	Ag	Au	Ag	NaCN	Cement (Added)
Mix	DA-001 (LG)	1"	P1	159	0.0213	0.100	0.0172	0.135	0.0385	0.235	55.3	42.6	0.64	12.0
Mix	DA-001 (LG)	1/2"	P11	159	0.0227	0.108	0.0127	0.183	0.0347	0.291	65.4	37.1	0.79	12.0
AA	DP-004 (MG)	1"	P2	159	0.0496	0.381	0.0033	0.425	0.0529	0.806	93.8	47.3	2.31	12.0
AA	DP-004 (MG)	1/2"	P12	159	0.0490	0.410	0.0031	0.371	0.0521	0.781	94.1	52.5	2.38	12.0
AA	DP-005 (MG)	1"	P3	159	0.1015	0.341	0.0331	0.469	0.1346	0.810	75.4	42.1	1.47	12.0
AA	DP-005 (MG)	1/2"	P13	159	0.1028	0.351	0.0200	0.347	0.1228	0.698	83.7	50.3	2.12	12.0
QP/MV	HM-MG (Comp)	1"	P4	191	0.0212	0.184	0.0082	0.244	0.0294	0.428	72.1	43.0	2.21	12.0
QP/MV	HM-MG (Comp)	1/2"	P14	159	0.0218	0.183	0.0130	0.263	0.0348	0.446	62.6	41.0	2.05	12.0
AA/QP	HM-010 (HG)	1"	P5	159	0.0863	0.585	0.0479	0.680	0.1342	1.265	64.3	46.2	1.29	12.0
AA/QP	HM-010 (HG)	1/2"	P15	159	0.0902	0.549	0.0655	0.448	0.1557	0.997	57.9	55.1	1.52	12.0
QP	HM-011 (LG)	1"	P6	191	0.0133	0.434	0.0034	0.228	0.0167	0.662	79.6	65.6	1.68	12.0
QP	HM-011 (LG)	1/2"	P16	159	0.0130	0.451	0.0027	0.196	0.0157	0.647	82.8	69.7	1.26	12.0
AA/QP/MN	LM-LG (Comp)	1"	P7	159	0.0166	0.345	0.0055	0.490	0.0221	0.835	75.1	41.3	1.62	12.0
AA/QP/MN	LM-LG (Comp)	1/2"	P17	159	0.0147	0.400	0.0047	0.541	0.0194	0.941	75.8	42.5	1.68	12.0
AA	LM-006, 007 (LG)	1"	P8	159	0.0175	0.114	0.0038	0.078	0.0213	0.192	82.2	59.4	1.56	12.0
AA	LM-006, 007 (LG)	1/2"	P18	159	0.0191	0.120	0.0058	0.076	0.0249	0.196	76.7	61.2	1.55	12.0
QP	LM-010, 011 (HG)	1"	P9	191	0.1361	0.871	0.0473	0.852	0.1834	1.723	74.2	50.6	1.20	12.0
QP	LM-010, 011 (HG)	1/2"	P19	159	0.1281	0.863	0.0511	0.888	0.1792	1.751	71.5	49.3	1.20	12.0
	PC10-07, 08 (Core)	1"	P10	159	0.0323	0.651	0.0337	0.959	0.0660	1.610	48.9	40.4	0.79	12.0
	PC10-07, 08 (Core)	1/2"	P20	159	0.0331	0.637	0.0331	0.756	0.0662	1.393	50.0	45.7	0.50	12.0

1) Includes rinse days.

Summary results for P_{80}1" feeds are summarized as follows:

- Au calculated head grades ranged from 0.0167 to 0.1834 oz/ton of ore. Gold recoveries ranged from 55.3 to 93.8 percent, and averaged 74.5 percent.
- Ag calculated head grades ranged from 0.192 to 1.723 oz/ton of ore. Silver recoveries ranged from 41.3 to 65.6 percent, and averaged 48.7 percent.
- Au and Ag recovery rates were fairly slow, but extraction was substantially complete in from 30 (Dayton) to 60 (Lucerne) days. Extraction continued at a reasonable rate after 30 to 60 days but at a much slower rate. Silver was being extracted at a slow rate when leaching was terminated. Gold was being extracted at a slow rate for Lucerne bulk samples when leaching was terminated (154 days).
- The 12 lbs cement/ton of ore added during agglomeration pretreatment was sufficient to maintain leach pH at above 10 throughout the leaching cycles.
- NaCN consumptions were generally high, but should be markedly lower during commercial heap leaching. BT consumptions normally better predict commercial consumptions than CT consumptions.

SAMPLE/COMPOSITE PREPARATION PROCEDURES AND HEAD GRADE DETERMINATIONS

Core and Cuttings Composites

Generally, interval assay data was provided for drill hole intercept composites for this phase of the metallurgical testing program so interval assays were not required.

Core intervals were stage crushed to the coarsest size to be evaluated and each interval was blended and split to obtain the same weight from each for compositing. Cuttings intervals were blended and split, without crushing, to obtain equal weights for compositing.

Weighted core and cuttings composites were prepared at the coarsest feed size for evaluation. Composites were blended and split to obtain appropriate quantities for coarsest BT's. Rejects were stage crushed to the next feed size for evaluation and were blended and split to obtain samples for metallurgical tests. Composite assay splits were crushed to ~ 10 mesh and were submitted to AAL for triplicate Au & Ag head assay. Average of triplicate head assays, when available, are included in respective BT metallurgical results tables provided later in this report.

Bulk ROM Ore Samples

A total of 11 bulk ore samples, weighing from 267 to 516 kg (589 - 1,138 lbs) were received for the heap leach phase of the metallurgical testing program. Preparation procedures are summarized below.

- Weigh each bulk sample and air dry.
- Blend and split each by repeated coning and quartering to obtain a 3/4 split to be saved for subsequent testwork.
- Stage crush the 1/4 splits to P_{80}2" and blend and split to obtain 10 kg (~ 22 lbs) for a BT. Save a portion of P_{80}2" rejects.
- Stage crush P_{80}2" rejects (25 to 42 kg) to P_{80}1/2" and blend and split to obtain 2 kg for a BT and 2 kg for assay.
- Crush 2 kg assay split to ~ 10 mesh and submit to AAL.
- Blend and split samples DA-001 and LM-026, 027 and prepare for mineralogy (Mn contained) and submit to Dr. Tommy Thompson (Mineralogy report already distributed).
- Stage crush the initial 3/4 split of each bulk sample to P_{80}1" and blend and split to obtain sample for CT and head screens. Save coarse rejects.
- Stage crush an appropriate split of each to P_{80}1/2" and blend and split to obtain sample for CT and head screens. Save P_{80}1/2" rejects.

Head grades were determined by head assay, head screen analysis and by calculation from various metallurgical tests. Gold and silver head grade comparisons are provided in Tables 5 and 6, respectively.

As mentioned earlier HM-009 and HM-013 were combined on a weighted basis to produce a composite designated HM-MG (combined, =QP/MV rock type). LM-019, 020, 021 and LM-026, 027 were combined on a weighted basis to produce a composite designated LM-LG (Combined= AA/QP/Mn rock type).

Table 5. - Gold Head Grade Comparisons, Comstock Bulk Ore Samples

Determination	Gold Grade, oz/ton ore									
	Bulk Ore Sample									
Method	DA-001	DP-004	DP-005	HM-MG	HM-010	HM-011	LM-LG	LM-006, 7	LM-010, 011	PC10-07, 08 (Core)
Head Assay	0.027	0.054	0.100[1)]	0.040[1)]	0.172[1)]	0.018	0.026	0.014	0.205	0.084
BT, 2"	0.0291	0.0664[1)]	0.1234	0.0352	0.1558	0.0157	0.0261[1)]	0.0167	0.2576	0.1267[1)]
BT, 1/2"	0.0296	0.0549	0.1322	0.0320	0.1259	0.0192[1)]	0.0214	0.0161	0.1990	0.0498
Head Screen, 1"	0.0516[1)]	0.0589	0.1216	0.0328	0.1398	0.0150	0.0197	0.0385[1)]	0.1461	0.0879
Head Screen, 1/2"	0.0365	0.0601	0.1127	0.0350	0.1531	0.0173	0.0216	0.0289	0.2731[1)]	0.0692
CT, 1"	0.0385	0.0529	0.1346	0.0294	0.1342	0.0167	0.0221	0.0213	0.1834	0.0660
CT, 1/2"	0.0347	0.0521	0.1228	0.0348	0.1557	0.0157	0.0194	0.0249	0.1792	0.0662
Average	0.0353	0.0570	0.1210	0.0342	0.1481	0.0168	0.0223	0.0229	0.2062	0.0785
Max. Dev. from Avg.	0.0163	0.0094	0.0210	0.0058	0.0239	0.0024	0.0038	0.0156	0.0669	0.0482
Precision, %	68.4	85.8	82.6	85.5	86.1	87.5	85.4	59.5	75.5	62.0

1) Maximum deviation from average occurred with this head grade determination.

Table 6. - Silver Head Grade Comparisons, Comstock Bulk Ore Samples

Determination	Gold Grade, oz/ton ore									
	Bulk Ore Sample									
Method	DA-001	DP-004	DP-005	HM-MG	HM-010	HM-011	LM-LG	LM-006, 7	LM-010, 011	PC10-07, 08 (Core)
Head Assay	0.22	0.80	0.75	0.45	1.13	0.68	0.96	0.30	1.84	1.50
BT, 2"	0.24	0.82[1)]	0.78	0.44	1.23	0.67	0.92	0.31	1.92	1.79[1)]
BT, 1/2"	0.21	0.82	0.72	0.47[1)]	1.03	0.69	1.00	0.29	1.76	1.21
Head Screen, 1"	0.27	0.80	0.86[1)]	0.44	1.18	0.68	1.17[1)]	0.20	1.88	1.42
Head Screen, 1/2"	0.21	0.78	0.76	0.44	1.09	0.68	0.84	0.25	1.67	1.62
CT, 1"	0.24	0.81	0.81	0.43	1.26[1)]	0.66	0.84	0.19[1)]	1.72	1.61
CT, 1/2"	0.29[1)]	0.78	0.70	0.45	1.00	0.65[1)]	0.94	0.20	1.75	1.39
Average	0.24	0.80	0.77	0.45	1.13	0.67	0.95	0.25	1.79	1.51
Max. Dev. from Avg.	0.05	0.02	0.09	0.03	0.13	0.02	0.22	0.06	0.13	0.28
Precision, %	82.8	97.6	89.5	95.7	89.7	97.0	81.2	76.0	93.2	84.4

1) Maximum deviation from average occurred with this head grade determination.

Head grade comparisons show some Au “nugget” effect and precision was outside the normally expected >90 percent. Grade control during mining will be somewhat difficult. Silver head grade precision was reasonably good.

Geological (rock type) descriptions, provided by Comstock Mining personnel, for the bulk ore samples are provided in Table 7. These descriptions can be referred to when evaluating metallurgical results versus rock type for the bulk ore samples.

**Table 7. - Geological (Rock Type) Descriptions,
Comstock Mining Bulk Ore Samples**

Bulk Ore Sample I.D.	Geological/Rock Type Description
DA-001	Breccia including AA, QP, RHY, Limonite + Mn
DP-004	Alta Andesite (AA)
DP-005	Alta Andesite (AA)
HM-009	Quartz Porphry (QP)
HM-010	Fault zone on contact with AA and QP
HM-011	QP
HM-013	Metavolcanics (MV)
LM-006, 007	AA (hanging wall)
LM-010, 011	Silver city fault on contract with mostly QP
LM-019, 020, 021	Contract with AA and QP
LM-026, 027	AA in fault zone w/Mn
PC10-07, 08	Core holes, highly siliceous

DIRECT AGITATED CYANIDATION TEST (BT) PROCEDURES AND RESULTS

Direct agitated cyanidation (bottle roll) tests were conducted on the various core and cuttings composites, and bulk ore samples to determine precious metal recovery, recovery rate, reagent requirements, and where possible sensitivity to crush size with respect to recovery and rate. BT procedures were the same for all 68 tests and are summarized as follows:

- Slurry the appropriate feed weight and crush size with water to achieve 40 wt. pct. solids pulp density.
- Measure natural pulp pH.
- Slowly add high calcium hydrated lime (HCHL) over about 2 hours to adjust pulp pH to between pH 10.8 and 11.2.
- Add NaCN, equivalent to 1.0 g//L of solution (2 lbs/ton of sol.), to the alkaline pulps.
- Roll in bottles on the laboratory rolls for 96 hours.
- Suspend rolling briefly, after 2, 6, 24, 48, 72 and 96 hours to allow pulps to settle so pregnant solution samples (100mL) could be obtained for Au, Ag, pH, NaCN and dissolved oxygen (DO) analyses.
- Add make-up water (100mL), HCHL and NaCN and resume rolling.
- Maintain pH and NaCN concentration at initial levels during the leach cycles.
- After 96 hours, filter pulps to separate liquids and solids.
- Measure final pregnant solution volumes and analyze for Au, Ag, pH, NaCN and DO.
- Wash (1-repulp, 5 displacements), dry, weigh and assay leached residues in triplicate for Au and Ag (AAL).

Overall metallurgical results for the bulk ore samples at P_{80}2" and P_{80}1/2" crush sizes are provided in even numbered Tables 8 through 18. Gold and silver leach rate profiles are provided in Figures 1 through 6. Tail assay results are provided in odd numbered Tables 9 through 19.

Table 8. - Overall Metallurgical Results, Bottle Roll Tests, Comstock Mining, Dayton Bulk Ore Samples, P_{80}2" Feeds

	Bulk Ore Sample					
	DA-001, LG		DP-004, MG		DP-005, MG	
Metallurgical Results	Au	Ag	Au	Ag	Au	Ag
Extraction: pct of total						
in 2 hours	10.6	11.2	35.5	11.5	21.6	9.6
in 6 hours	21.0	14.2	47.0	13.8	32.4	11.7
in 24 hours	36.4	19.6	62.5	17.7	49.7	16.0
in 48 hours	42.6	22.9	68.2	20.6	57.0	18.8
in 72 hours	45.7	25.4	72.0	22.8	62.1	21.4
in 96 hours	49.1	29.2	74.4	25.6	64.9	23.1
Extracted, oz/ton ore	0.0143	0.07	0.0494	0.21	0.0801	0.18
Tail Assay, oz/ton[1)]	0.0148	0.17	0.0170	0.61	0.0433	0.60
Calculated Head, oz/ton ore	0.0291	0.24	0.0664	0.82	0.1234	0.78
Projected Head, oz/ton ore[2)]	0.023	0.83	0.041	0.39	0.046	0.79
NaCN Consumed, lb/ton ore	<0.05		0.24		<0.05	
Lime Added, lb/ton ore	2.0		10.5		5.2	
Final Leach pH	10.6		10.7		10.5	
Natural pH (40% Solids)	7.1		7.0		7.2	
Final DO, ppm	7.2		6.6		7.2	

1) Avg. of triplicate, or multiple tail assays.
2) Bulk ore sample head assays provided by Comstock Mining.

Figure 1. - Gold and Silver Leach Rate Profiles, Bottle Roll Tests, Comstock Mining, Dayton Bulk Ore Samples, P_{80}2" Feeds

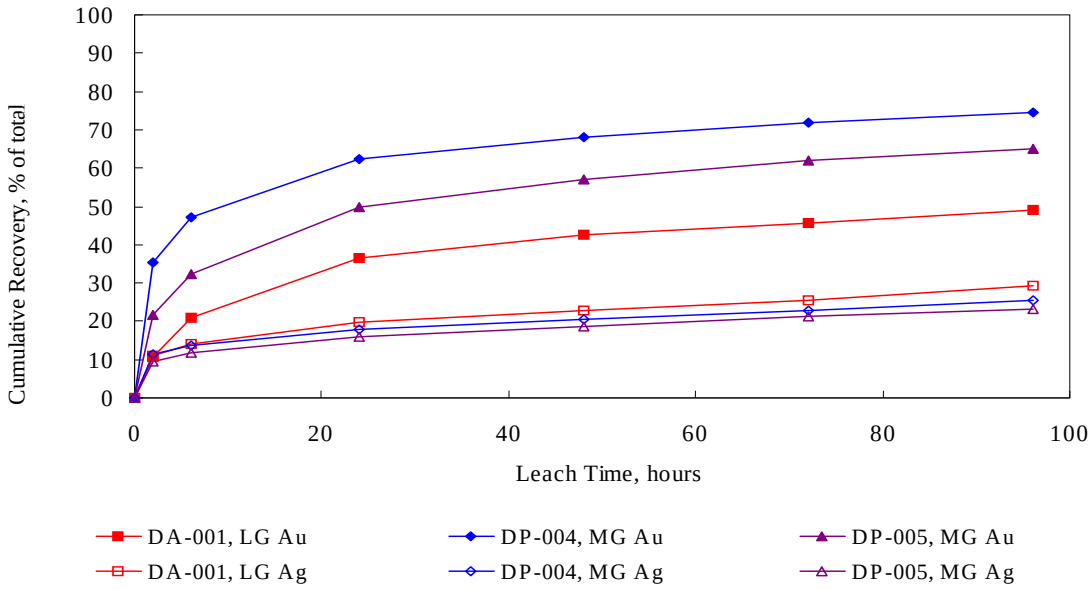


Table 9. - Tail Assay Results, Bottle Leached Residues, Comstock Mining, Dayton Bulk Ore Samples, P_{80}2" Feeds

	Tail Grade, oz/ton					
	Bulk Ore Sample					
	DA-001, LG		DP-004, MG		DP-005, MG	
Tail Assay	Au	Ag	Au	Ag	Au	Ag
1	0.025[1)]	0.172	0.017	0.624	0.044	0.621
2	0.013	0.163	0.017	0.595	0.040	0.557
3	0.013	0.178	0.017	0.609	0.046	0.609
4	0.018	0.161				
5	0.012[1)]	0.182				
6	0.015	0.156				
Average	0.0148	0.17	0.0170	0.61	0.0433	0.60

1) Not included in Avg.

Table 10. - Overall Metallurgical Results, Bottle Roll Tests, Comstock Mining, Dayton Bulk Ore Samples, P_{80} 1/2" Feeds

	Bulk Ore Sample					
	DA-001, LG		DP-004, MG		DP-005, MG	
Metallurgical Results	Au	Ag	Au	Ag	Au	Ag
Extraction: pct of total						
in 2 hours	20.6	15.7	47.0	12.7	28.8	12.9
in 6 hours	31.8	20.0	64.5	16.8	44.9	17.1
in 24 hours	45.9	27.6	79.4	24.5	62.6	23.8
in 48 hours	50.3	32.9	81.8	28.8	70.9	30.0
in 72 hours	52.0	36.2	85.2	31.8	72.8	33.1
in 96 hours	53.7	38.1	85.4	34.6	74.9	36.1
Extracted, oz/ton ore	0.0159	0.08	0.0469	0.27	0.0990	0.26
Tail Assay, oz/ton[1)]	0.0137	0.13	0.0080	0.51	0.0332	0.46
Calculated Head, oz/ton ore	0.0296	0.21	0.0549	0.78	0.1322	0.72
Projected Head, oz/ton ore[2)]	0.023	0.83	0.041	0.39	0.046	0.79
NaCN Consumed, lb/ton ore	0.16		0.19		0.21	
Lime Added, lb/ton ore	4.2		10.5		5.5	
Final Leach pH	11.2		10.8		10.5	
Natural pH (40% Solids)	7.3		6.3		6.8	
Final DO, ppm	7.3		6.4		6.6	

1) Avg. of triplicate, or multiple tail assays.
2) Bulk ore sample head assays provided by Comstock Mining.

Figure 2. - Gold and Silver Leach Rate Profiles, Bottle Roll Tests, Comstock Mining, Dayton Bulk Ore Samples, P_{80} 1/2" Feeds

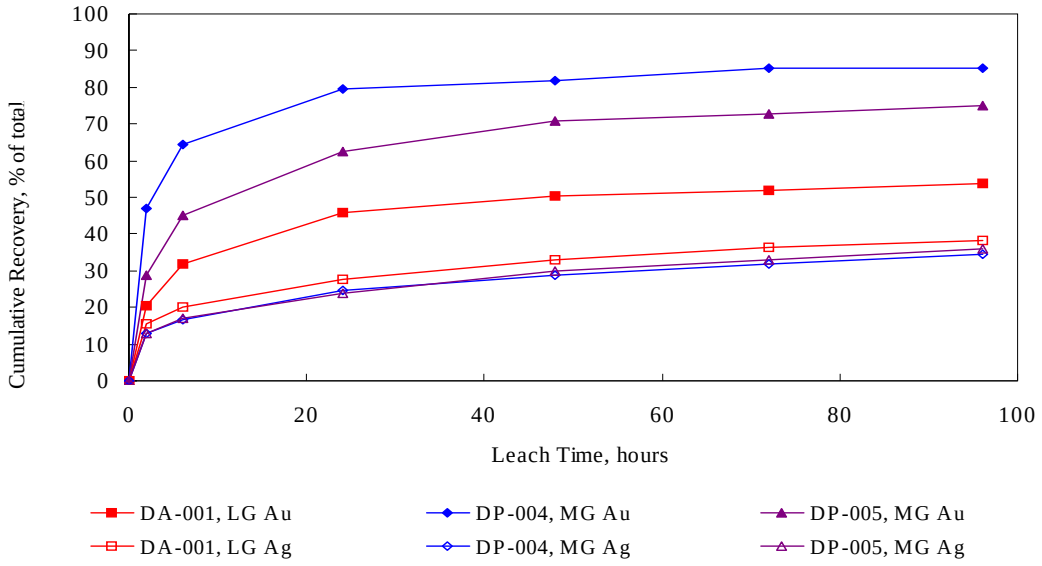


Table 11. - Tail Assay Results, Bottle Leached Residues, Comstock Mining, Dayton Bulk Ore Samples, P_{80} 1/2" Feeds

	Tail Grade, oz/ton					
	Bulk Ore Sample					
	DA-001, LG		DP-004, MG		DP-005, MG	
Tail Assay	Au	Ag	Au	Ag	Au	Ag
1	0.011	0.129	0.005	0.498	0.039	0.501
2	0.011	0.120	0.007	0.496	0.029	0.449
3	0.019	0.142	0.012	0.528	0.035	0.472
4					0.030	0.426
Average	0.0137	0.13	0.0080	0.51	0.0332	0.46

Metallurgical Results show that Dayton area samples were amenable to cyanidation at both feed sizes evaluated. Precious metals recoveries were higher for P_{80}1/2" feeds than for P_{80}2" feeds. Bulk sample DA-001 was a mixed rock type (see Table 7) and recoveries were lower than for DP-004 (AA) and DP-005 (AA) regardless of crush size. Results are summarized below.

- Precious metals recovery rates were fairly slow, and extraction was progressing at a reasonable rate when leaching was terminated.
- NaCN consumptions were low (<0.05-0.24 lbs/ton ore). Consumption rates were most rapid the first 2 to 6 hours of leaching.
- Lime requirements (lime added) varied from 4.2 to 10.8 lbs/ton of ore (P_{80}1/2" feeds). Controlling pH during leaching was not difficult. About 70% of the HCHL required was added during initial pulp pH adjustment procedures. The remaining 30% was added during leaching, generally after 24 hours.

Table 12. - Overall Metallurgical Results, Bottle Roll Tests, Comstock Mining, Hartford Bulk Ore Samples, P_{80}2" Feeds

	Bulk Ore Sample							
	HM-011, LG		HM-009, MG		HM-013, MG		HM-010, HG	
Metallurgical Results	Au	Ag	Au	Ag	Au	Ag	Au	Ag
Extraction: pct of total								
in 2 hours	22.3	37.6	9.8	4.4	11.0	6.9	5.9	21.8
in 6 hours	30.6	40.4	13.2	5.6	17.2	8.9	9.0	23.7
in 24 hours	42.0	44.3	19.9	8.4	27.2	12.7	15.0	27.4
in 48 hours	51.0	47.3	24.8	10.4	31.4	15.2	19.0	29.8
in 72 hours	54.1	48.7	28.6	12.0	33.6	17.1	21.7	31.1
in 96 hours	57.3	50.7	28.6	12.0	35.9	19.4	24.1	32.5
Extracted, oz/ton ore	0.0090	0.34	0.0076	0.03	0.0157	0.12	0.0375	0.40
Tail Assay, oz/ton[1)]	0.0067	0.33	0.0190	0.22	0.0280	0.50	0.1183	0.83
Calculated Head, oz/ton ore	0.0157	0.67	0.0266	0.25	0.0437	0.62	0.1558	1.23
Projected Head, oz/ton ore[2)]	0.018	0.48	0.039	0.21	0.069	0.84	0.234	0.98
NaCN Consumed, lb/ton ore	<0.05		0.15		<0.05		<0.05	
Lime Added, lb/ton ore	2.9		5.4		5.7		4.6	
Final Leach pH	11.0		10.8		10.3		10.8	
Natural pH (40% Solids)	7.2		7.5		7.3		7.5	
Final DO, ppm	7.2		6.9		6.9		6.6	

1) Avg. of triplicate, or multiple tail assays.
2) Bulk ore sample head assays provided by Comstock Mining.

Figure 3. - Gold and Silver Leach Rate Profiles, Bottle Roll Tests, Comstock Mining, Hartford Bulk Ore Samples, P_{80}2" Feeds

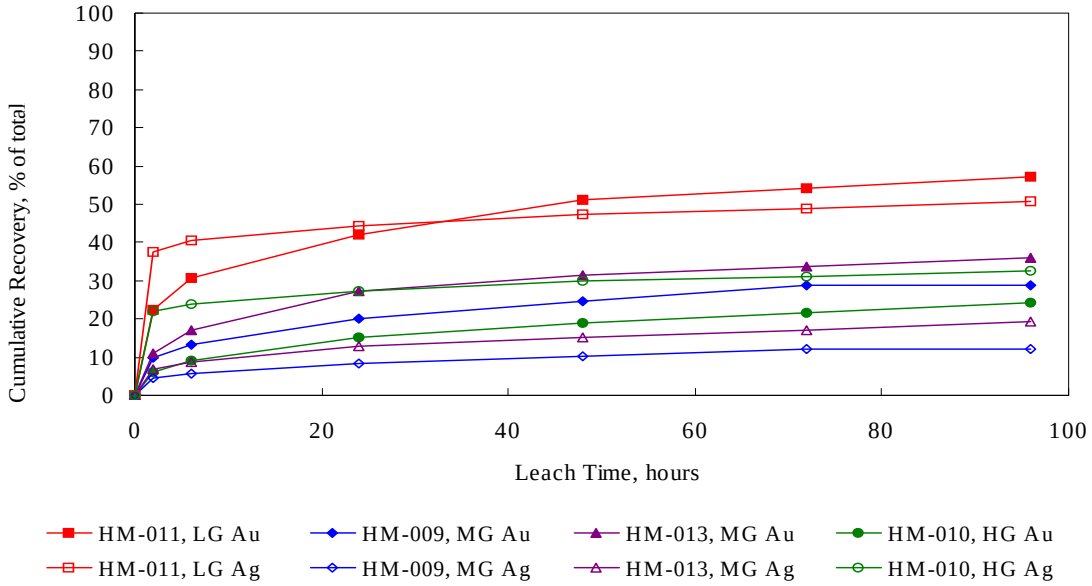


Table 13. - Tail Assay Results, Bottle Leached Residues, Comstock Mining, Hartford Bulk Ore Samples, P_{80}2" Feeds

	Tail Grade, oz/ton							
	Bulk Ore Sample							
	HM-011, LG		HM-009, MG		HM-013, MG		HM-010, HG	
Tail Assay	Au	Ag	Au	Ag	Au	Ag	Au	Ag
1	0.006	0.353	0.016	0.201	0.034	0.525	0.122	0.843
2	0.007	0.318	0.021	0.258	0.029	0.475	0.108	0.706
3	0.007	0.332	0.020	0.201	0.021	0.510	0.125	0.933
4	0.007[1)]	0.338[1)]						
5	0.010[1)]	0.361[1)]						
6	0.012[1)]	0.341[1)]						
Average	0.0067	0.33	0.0190	0.22	0.0280	0.50	0.1183	0.83

1) Not included in Avg.

Table 14. - Overall Metallurgical Results, Bottle Roll Tests, Comstock Mining, Hartford Bulk Ore Samples, P_{80} 1/2" Feeds

	Bulk Ore Sample							
	HM-011, LG		HM-009, MG		HM-013, MG		HM-010, HG	
Metallurgical Results	Au	Ag	Au	Ag	Au	Ag	Au	Ag
Extraction: pct of total								
in 2 hours	34.4	48.6	12.3	6.7	19.4	8.9	11.4	29.3
in 6 hours	44.3	51.0	19.0	9.5	32.2	12.0	17.4	33.0
in 24 hours	59.4	60.0	32.2	17.6	45.6	17.8	26.3	38.9
in 48 hours	66.1	62.5	37.4	23.3	49.1	22.0	31.6	43.1
in 72 hours	72.4	66.2	40.8	26.7	52.6	25.1	35.3	44.8
in 96 hours	72.4	66.7	41.7	28.6	53.3	27.0	37.5	46.6
Extracted, oz/ton ore	0.0139	0.46	0.0088	0.06	0.0228	0.20	0.0472	0.48
Tail Assay, oz/ton[1)]	0.0053	0.23	0.0123	0.15	0.0200	0.54	0.0787	0.55
Calculated Head, oz/ton ore	0.0192	0.69	0.0211	0.21	0.0428	0.74	0.1259	1.03
Projected Head, oz/ton ore[2)]	0.018	0.48	0.039	0.21	0.069	0.84	0.234	0.98
NaCN Consumed, lb/ton ore	0.31		0.19		0.15		0.15	
Lime Added, lb/ton ore	5.3		6.7		8.4		5.2	
Final Leach pH	11.2		10.9		10.7		10.9	
Natural pH (40% Solids)	7.5		7.5		6.5		7.5	
Final DO, ppm	7.3		7.8		6.4		6.4	

1) Avg. of triplicate, or multiple tail assays.
2) Bulk ore sample head assays provided by Comstock Mining.

Figure 4. - Gold and Silver Leach Rate Profiles, Bottle Roll Tests, Comstock Mining, Hartford Bulk Ore Samples, P_{80} 1/2" Feeds

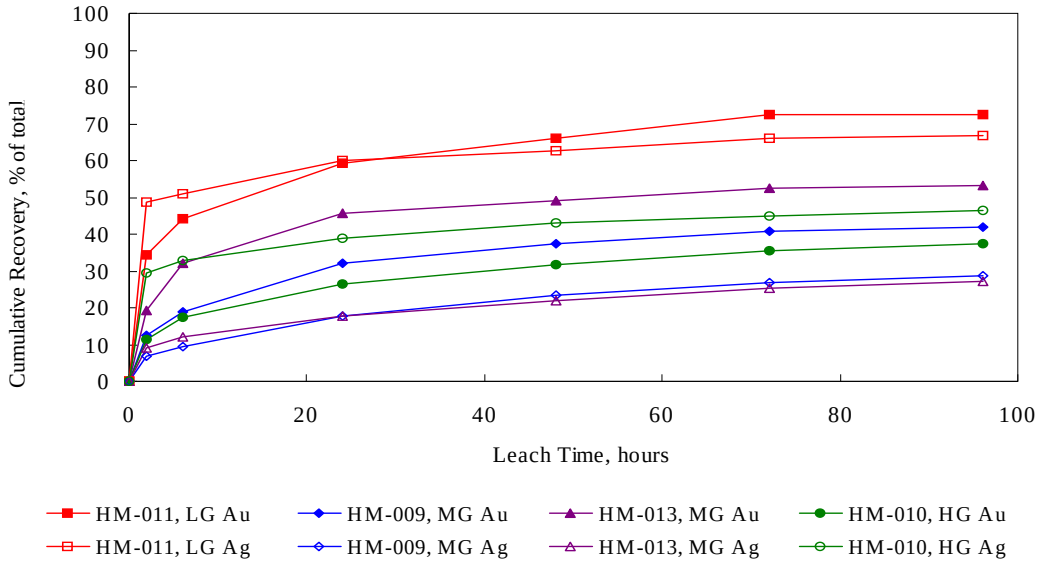


Table 15. - Tail Assay Results, Bottle Leached Residues, Comstock Mining, Hartford Bulk Ore Samples, P_{80} 1/2" Feeds

	Tail Grade, oz/ton							
	Bulk Ore Sample							
	HM-011, LG		HM-009, MG		HM-013, MG		HM-010, HG	
Tail Assay	Au	Ag	Au	Ag	Au	Ag	Au	Ag
1	0.006	0.218	0.013	0.148	0.014	0.641	0.071	0.493
2	0.005	0.252	0.012	0.144	0.029	0.490	0.091	0.568
3	0.019[1)]	0.225	0.012	0.146	0.017	0.481	0.074	0.580
4	0.005	0.246[1)]						
Average	0.0053	0.23	0.0123	0.15	0.0200	0.54	0.0787	0.55

1) Did not include in avg.

Overall metallurgical results show that Hartford bulk ore samples were not amenable to cyanidation at the P_{80}2" crush size, and were marginally amenable at the P_{80}1/2" crush size. Hartford samples received were QP and MV rock types, and little AA was contained. Precious metal recovery was highest for sample HM-011 (QP). Summary results are below.

- Recovery rates were slow and extraction was progressing when leaching was terminated.
- NaCN consumptions were low and consumption rates were fairly constant.
- Lime requirements were generally moderate (5.3-8.4 lb/ton). Controlling pH during leaching was not difficult for HM-010 and HM-011 and about 68% of the total lime required was added during initial pH adjustment procedures. pH control was somewhat difficult for HM-009 and HM-013 and over 60% of the lime required was added during leaching, especially after 24 hours. These data indicate that base consuming minerals are contained in those two bulk ore samples.

Table 16. - Overall Metallurgical Results, Bottle Roll Tests, Comstock Mining, Lucerne Bulk Ore Samples, P_{80}2" Feeds

	Bulk Ore Sample									
	LM-006, 007, LG		LM-019, 020, 021, LG		LM-026, 027, MG		LM-010, 011, HG		PC10, 07, 08 (51 - 93')	
Metallurgical Results	Au	Ag	Au	Ag	Au	Ag	Au	Ag	Au	Ag
Extraction: pct of total										
in 2 hours	13.2	12.6	8.7	7.5	13.3	6.5	7.1	10.7	2.0	5.9
in 6 hours	21.0	16.4	12.3	10.4	18.8	8.4	11.6	14.0	4.2	8.4
in 24 hours	39.5	22.6	18.5	16.4	29.1	10.4	21.2	19.7	7.3	12.0
in 48 hours	50.3	27.1	22.4	21.1	37.6	13.5	28.3	23.0	9.4	14.2
in 72 hours	58.7	29.7	24.9	24.6	40.6	15.1	32.9	25.9	10.9	15.1
in 96 hours	64.1	32.3	26.3	28.6	43.6	15.4	36.3	28.1	11.6	16.2
Extracted, oz/ton ore	0.0107	0.10	0.0094	0.08	0.0072	0.24	0.0936	0.54	0.0147	0.29
Tail Assay, oz/ton[1)]	0.0060	0.21	0.0263	0.20	0.0093	1.32	0.1640	1.38	0.1120	1.50
Calculated Head, oz/ton ore	0.0167	0.31	0.0357	0.28	0.0165	1.56	0.2576	1.92	0.1267	1.79
Projected Head, oz/ton ore[2)]	0.010	0.11	0.027	0.22	0.031	2.21	0.157	0.96	0.0745	1.30
NaCN Consumed, lb/ton ore	<0.05		0.09		<0.05		<0.05		<0.05	
Lime Added, lb/ton ore	3.8		5.3		2.2		2.5		1.0	
Final Leach pH	10.9		10.9		11.0		10.7		11.4	
Natural pH (40% Solids)	7.1		6.6		7.3		7.5		7.4	
Final DO, ppm	7.2		7.2		7.4		7.3		6.9	

1) Avg. of triplicate or multiple tail assays.
2) Bulk ore sample head assays provided by Comstock Mining.

Figure 5. - Gold and Silver Leach Rate Profiles, Bottle Roll Tests, Comstock Mining, Lucerne Bulk Ore Samples, P_{80}2" Feeds

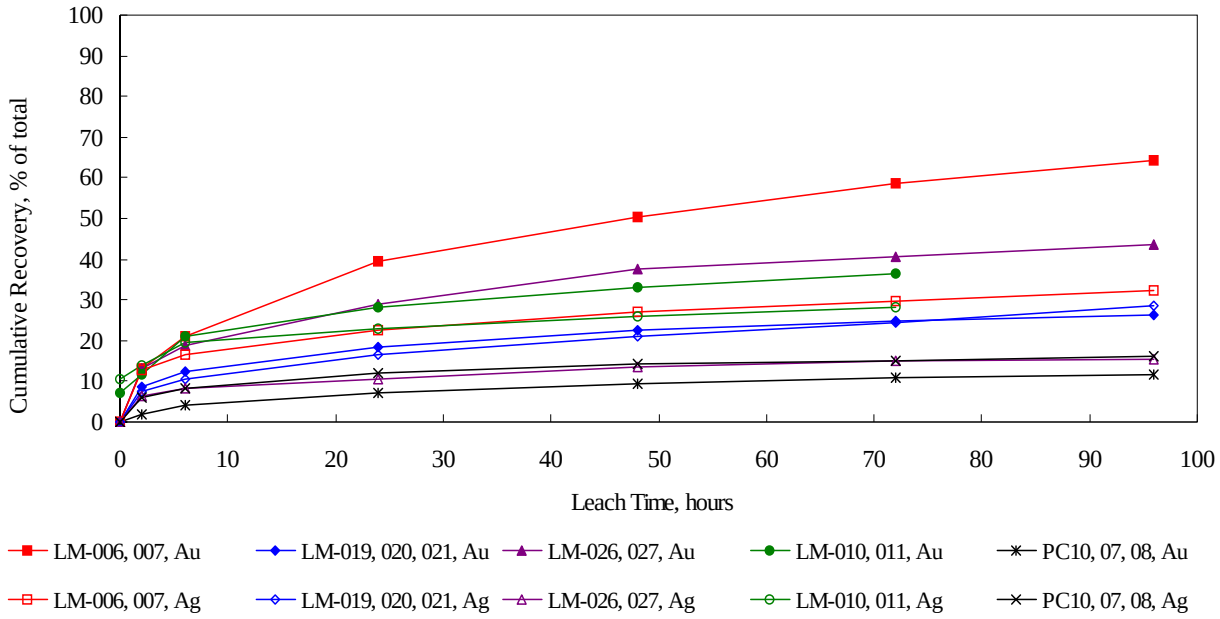


Table 17. - Tail Assay Results, Bottle Leached Residues, Comstock Mining, Lucerne Bulk Ore Samples, P_{80}2" Feeds

	Tail Grade, oz/ton									
	Bulk Ore Sample									
	LM-006, 007, LG		LM-019, 020, 021, LG		LM-026, 027, MG		LM-010, 011, HG		PC10, 07, 08, MG - HG	
Tail Assay	Au	Ag	Au	Ag	Au	Ag	Au	Ag	Au	Ag
1	0.006	0.231	0.025	0.221	0.009	1.292	0.190	1.388	0.109	1.534
2	0.005	0.209	0.030	0.204	0.010	1.379	0.211	1.353	0.118	1.487
3	0.007	0.201	0.024	0.173	0.009	1.301	0.091	1.403	0.109	1.470
4			0.029[1)]	0.189[1)]						
5										
6										
Average	0.0060	0.21	0.0263	0.20	0.0093	1.32	0.1640	1.38	0.1120	1.50

1) Not included in Avg.

Table 18. - Overall Metallurgical Results, Bottle Roll Tests, Comstock Mining, Lucerne Bulk Ore Samples, P_{80}1/2" Feeds

	Bulk Ore Sample									
	LM-006, 007, LG		LM-019, 020, 021, LG		LM-026, 027, MG		LM-010, 011, HG		PC10, 07, 08 (51 - 93')	
Metallurgical Results	Au	Ag	Au	Ag	Au	Ag	Au	Ag	Au	Ag
Extraction: pct of total										
in 2 hours	24.2	21.7	19.4	15.4	16.1	8.4	15.0	15.7	14.9	19.7
in 6 hours	39.1	28.3	26.4	21.7	23.4	11.0	29.5	21.4	25.1	25.6
in 24 hours	62.1	40.7	38.5	37.1	40.1	16.3	52.3	30.5	39.2	33.9
in 48 hours	72.0	48.3	42.9	46.7	45.8	19.5	63.6	36.2	44.0	35.7
in 72 hours	77.0	53.1	47.2	51.7	49.5	22.2	67.3	39.6	46.2	40.7
in 96 hours	79.5	55.2	48.7	54.2	53.1	23.3	69.6	40.9	48.4	42.1
Extracted, oz/ton ore	0.0124	0.16	0.0133	0.13	0.0102	0.41	0.1385	0.72	0.0241	0.51
Tail Assay, oz/ton[1)]	0.0037	0.13	0.0140	0.11	0.0090	1.35	0.0605	1.04	0.0257	0.70
Calculated Head, oz/ton ore	0.0161	0.29	0.0273	0.24	0.0192	1.76	0.1990	1.76	0.0498	1.21
Projected Head, oz/ton ore[2)]	0.010	0.11	0.027	0.22	0.031	2.21	0.157	0.96	0.074	1.30
NaCN Consumed, lb/ton ore	0.19		0.14		0.15		0.20		0.16	
Lime Added, lb/ton ore	7.7		14.5		3.1		3.1		2.0	
Final Leach pH	11.0		11.5		11.0		10.6		11.4	
Natural pH (40% Solids)	7.3		6.9		7.3		7.3		7.6	
Final DO, ppm	6.8		6.0		7.3		6.5		7.8	

1) Avg. of triplicate or multiple tail assays.
2) Bulk ore sample head assays provided by Comstock Mining.

Figure 6. - Gold and Silver Leach Rate Profiles, Bottle Roll Tests, Comstock Mining, Lucerne Bulk Ore Samples, P_{80}1/2" Feeds

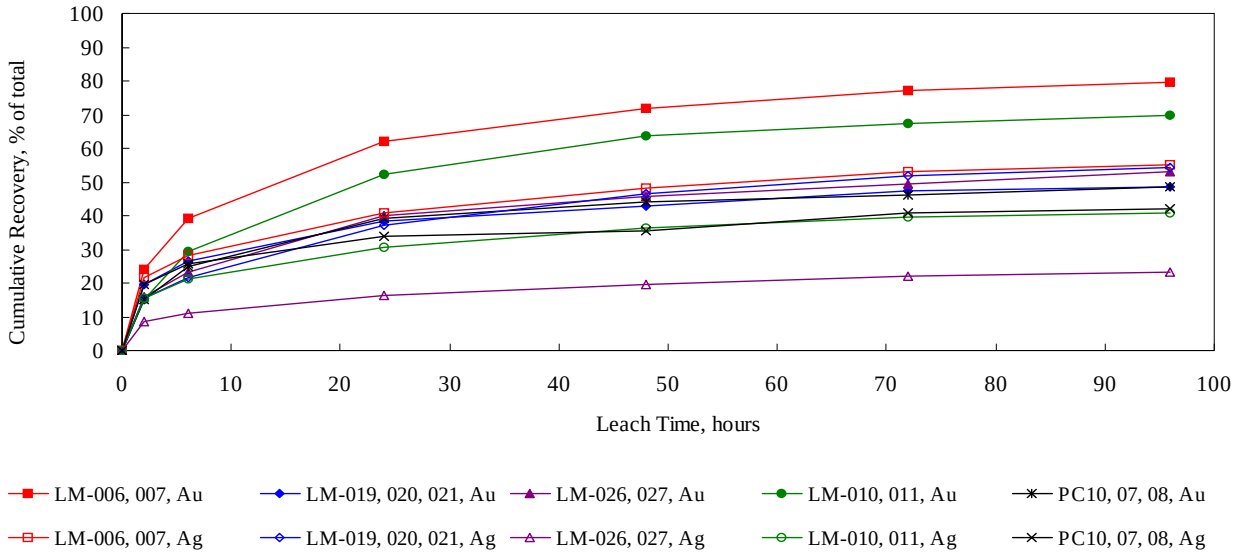


Table 19. - Tail Assay Results, Bottle Leached Residues, Comstock Mining, Lucerne Bulk Ore Samples, P_{80}1/2" Feeds

	Tail Grade, oz/ton									
	Bulk Ore Sample									
	LM-006, 007, LG		LM-019, 020, 021, LG		LM-026, 027, MG		LM-010, 011, HG		PC10, 07, 08, MG to HG	
Tail Assay	Au	Ag	Au	Ag	Au	Ag	Au	Ag	Au	Ag
1	0.003	0.129	0.018	0.105	0.012	1.359	0.224[1)]	0.948	0.021	0.612
2	0.006	0.155	0.012	0.116	0.009	1.210	0.095	1.035	0.027	0.758
3	0.002	0.107	0.012	0.102	0.006	1.479	0.026	1.149	0.029	0.717
4										
Average	0.0037	0.13	0.0140	0.11	0.0090	1.35	0.0605	1.04	0.0257	0.70

1) Did not include in avg.

Metallurgical results for Lucerne bulk ore samples were similar to Hartford samples. The AA rock type (LM-006, 007) was more amenable to cyanidation generally than the other rock types. Recoveries from P_{80}1/2" feeds, however, were much higher than P_{80}2" feeds for all Lucerne samples.

The core composite (PC10-07, 08, 53-92') was not leachable at a P_{80}2" crush size, but was marginally amenable at the P_{80}1/2" crush size.

Overall metallurgical results for BT's conducted on the 31 drill cuttings composites are provided in even numbered Tables 20 through 34. Gold and silver leach rate profiles are shown in Figures 7 through 14. Triplicate tail assay results are provided in odd numbered Tables 21 through 35.

Table 20. - Overall Metallurgical Results, Bottle Roll Tests, Comstock Mining Drill Cuttings Composites, As Received Feed Size (~ Minus 1/2")

	Drill Cuttings Composite							
	P10-92A, 15-45'		P10-92B, 50-75'		P10-93A, 0-65'		P10-93B, 10-15'	
Metallurgical Results	Au	Ag	Au	Ag	Au	Ag	Au	Ag
Extraction: pct of total								
in 2 hours	24.7	19.2	22.0	12.9	37.4	24.9	11.8	16.4
in 6 hours	34.2	22.5	29.4	15.4	48.2	28.6	20.4	21.0
in 24 hours	60.1	29.5	41.8	20.5	65.5	34.9	34.8	31.0
in 48 hours	67.7	34.2	46.0	23.7	71.2	38.6	42.8	35.7
in 72 hours	68.4	36.5	48.7	26.1	73.4	40.4	46.4	38.0
in 96 hours	69.0	39.2	52.5	29.1	75.5	42.0	48.0	40.9
Extracted, oz/ton ore	0.0109	0.157	0.0177	0.378	0.0105	0.182	0.0212	0.070
Tail Assay, oz/ton[1)]	0.0049	0.243	0.0160	0.920	0.0034	0.251	0.0230	0.101
Calc'd. Head, oz/ton ore	0.0158	0.400	0.0337	1.298	0.0139	0.433	0.0442	0.171
Head Assay, oz/ton ore[1)]	0.0113	0.311	0.0244	1.065	0.0110	0.440	0.0496	0.117
NaCN Consumed, lb/ton ore	0.14		0.06		0.29		0.41	
Lime Added, lb/ton ore	5.1		4.0		5.6		8.0	
Final Leach pH	10.7		10.9		10.7		10.1	
Natural pH (40% Solids)	7.5		7.4		7.7		7.8	
Final DO content, ppm	8.0		8.4		8.2		8.1	

1) Average of triplicate assays.

Figure 7. - Gold and Silver Leach Rate Profiles, Bottle Roll Tests, Comstock Mining Drill Cuttings Composites, As Received Feed Size (~ Minus 1/2")

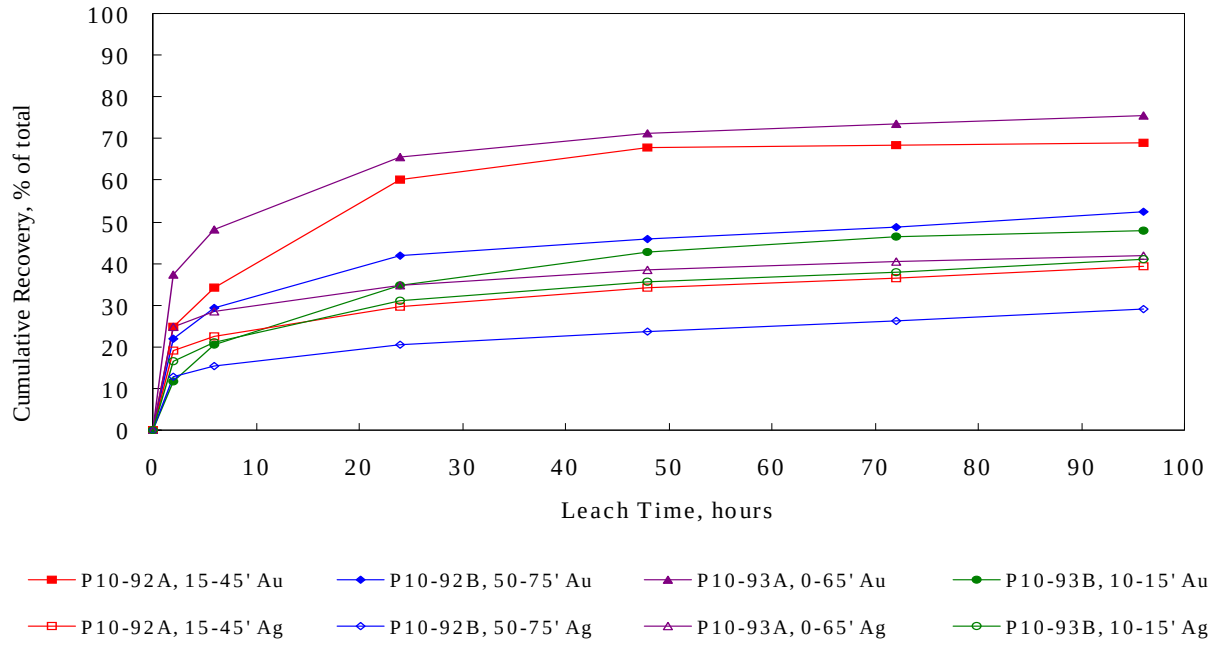


Table 21. - Tail Assay Results, Bottle Leached Residues, Comstock Mining Drill Cuttings Composites, As Received Feeds

	Tail Grade, oz/ton							
	Drill Cuttings Composite							
	P10-92A, 15-45'		P10-92B, 50-75'		P10-93A, 0-65'		P10-93B, 10-15'	
Tail Assay	Au	Ag	Au	Ag	Au	Ag	Au	Ag
1	0.0050	0.216	0.0204	0.875	0.0040	0.245	0.0243	0.093
2	0.0050	0.251	0.0122	0.986	0.0035	0.239	0.0150	0.099
3	0.0046	0.262	0.0154	0.898	0.0028	0.268	0.0296	0.111
Average	0.0049	0.243	0.0160	0.920	0.0034	0.251	0.0230	0.101

Table 22. - Overall Metallurgical Results, Bottle Roll Tests, Comstock Mining Drill Cuttings Composites, As Received Feed Size (~ Minus 1/2")

	Drill Cuttings Composite							
	P10-94A, 75-95'		P10-94B, 70-75'		P10-95A, 50-105'		P10-95B, 30-95'	
Metallurgical Results	Au	Ag	Au	Ag	Au	Ag	Au	Ag
Extraction: pct of total								
in 2 hours	13.6	16.3	44.3	26.2	30.7	17.6	16.2	13.0
in 6 hours	23.5	19.5	58.7	30.5	43.4	21.5	25.9	17.6
in 24 hours	37.9	25.5	78.1	38.8	60.1	28.7	50.9	29.7
in 48 hours	42.4	29.4	81.6	42.8	63.6	33.8	59.7	37.3
in 72 hours	43.2	31.7	82.9	44.9	67.5	36.6	63.6	39.7
in 96 hours	44.7	34.3	83.2	46.6	68.0	38.5	67.6	45.9
Extracted, oz/ton ore	0.0059	0.194	0.0312	0.660	0.0155	0.195	0.0292	0.170
Tail Assay, oz/ton[1)]	0.0073	0.371	0.0063	0.756	0.0073	0.311	0.0140	0.200
Calc'd. Head, oz/ton ore	0.0132	0.565	0.0375	1.416	0.0228	0.506	0.0432	0.370
Head Assay, oz/ton ore[1)]	0.0083	0.523	0.0267	1.414	0.0177	0.671	0.0236	0.542
NaCN Consumed, lb/ton ore	0.14		0.32		0.31		0.50	
Lime Added, lb/ton ore	2.9		3.7		4.4		5.1	
Final Leach pH	10.8		10.8		10.9		10.9	
Natural pH (40% Solids)	7.7		7.5		7.7		7.6	
Final DO content, ppm	8.0		8.0		7.7		8.0	

1) Average of triplicate assays.

Figure 8. - Gold and Silver Leach Rate Profiles, Bottle Roll Tests, Comstock Mining Drill Cuttings Composites, As Received Feed Size (~ Minus 1/2")

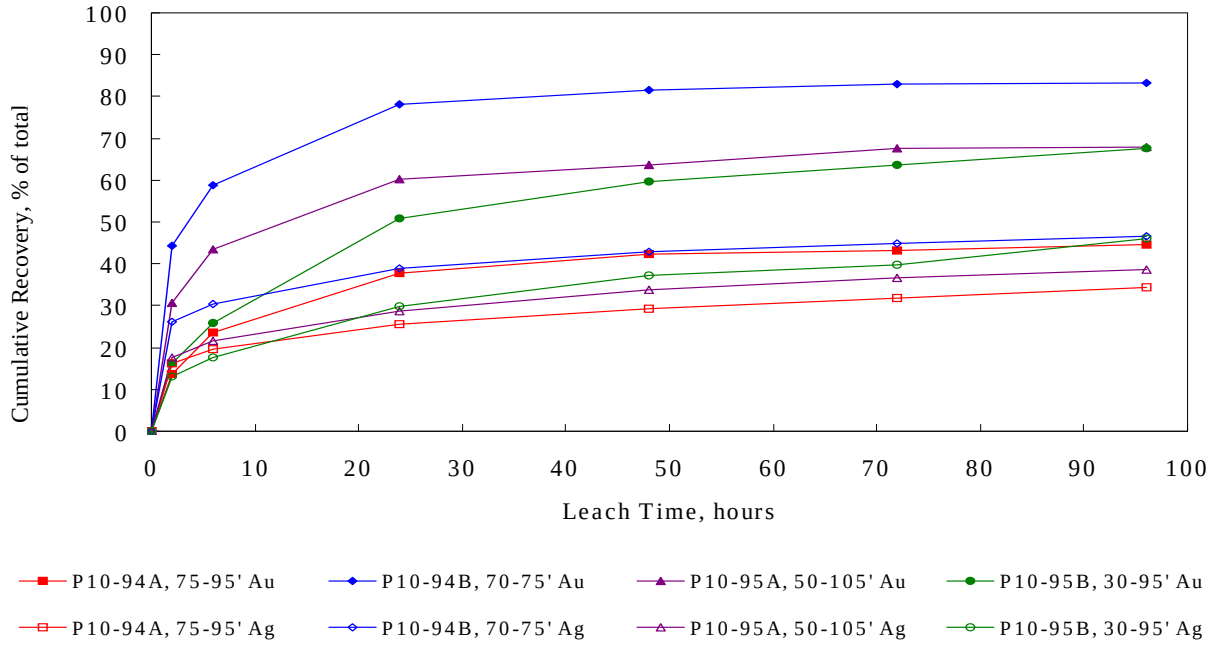


Table 23. - Tail Assay Results, Bottle Leached Residues, Comstock Mining Drill Cuttings Composites, As Received Feeds

	Tail Grade, oz/ton							
	Drill Cuttings Composite							
	P10-94A, 75-95'		P10-94B, 70-75'		P10-95A, 50-105'		P10-95B, 30-95'	
Tail Assay	Au	Ag	Au	Ag	Au	Ag	Au	Ag
1	0.0108	0.391	0.0075	0.752	0.0082	0.315	0.0180	0.175
2	0.0076	0.379	0.0071	0.735	0.0108	0.332	0.0132	0.198
3	0.0035	0.344	0.0044	0.782	0.0030	0.286	0.0109	0.227
Average	0.0073	0.371	0.0063	0.756	0.0073	0.311	0.0140	0.200

**Table 24. - Overall Metallurgical Results, Bottle Roll Tests,
Comstock Mining Drill Cuttings Composites, As Received Feed Size (~ Minus 1/2")**

	Drill Cuttings Composite							
	P10-96A, 5-60'		P10-96B, 20-80'		P10-97A, 0-100'		P10-98A, 35-145'	
Metallurgical Results	Au	Ag	Au	Ag	Au	Ag	Au	Ag
Extraction: pct of total								
in 2 hours	28.9	32.4	29.6	22.1	34.6	31.1	11.5	34.9
in 6 hours	43.4	38.1	46.3	27.6	49.6	36.0	19.9	42.3
in 24 hours	57.8	46.0	74.6	37.2	64.6	45.0	39.8	56.1
in 48 hours	62.0	50.4	79.9	41.3	70.1	51.8	48.7	63.8
in 72 hours	63.9	52.5	82.5	43.6	72.4	54.0	52.2	67.6
in 96 hours	66.3	54.7	83.6	44.9	74.8	55.4	54.0	70.8
Extracted, oz/ton ore	0.0110	0.076	0.0520	0.262	0.0095	0.123	0.0122	0.221
Tail Assay, oz/ton[1)]	0.0056	0.063	0.0102	0.321	0.0032	0.099	0.0104	0.091
Calc'd. Head, oz/ton ore	0.0166	0.139	0.0622	0.583	0.0127	0.222	0.0226	0.312
Head Assay, oz/ton ore[1)]	0.0115	0.198	0.0297	0.445	0.0126	0.356	0.0214	0.558
NaCN Consumed, lb/ton ore	0.37		0.29		0.43		0.29	
Lime Added, lb/ton ore	8.5		6.0		7.9		2.2	
Final Leach pH	10.8		11.0		10.2		10.3	
Natural pH (40% Solids)	7.7		7.7		7.8		7.7	
Final DO content, ppm	8.2		8.3		8.2		8.3	

1) Average of triplicate assays.

**Figure 9. - Gold and Silver Leach Rate Profiles, Bottle Roll Tests,
Comstock Mining Drill Cuttings Composites, As Received Feed Size (~ Minus 1/2")**

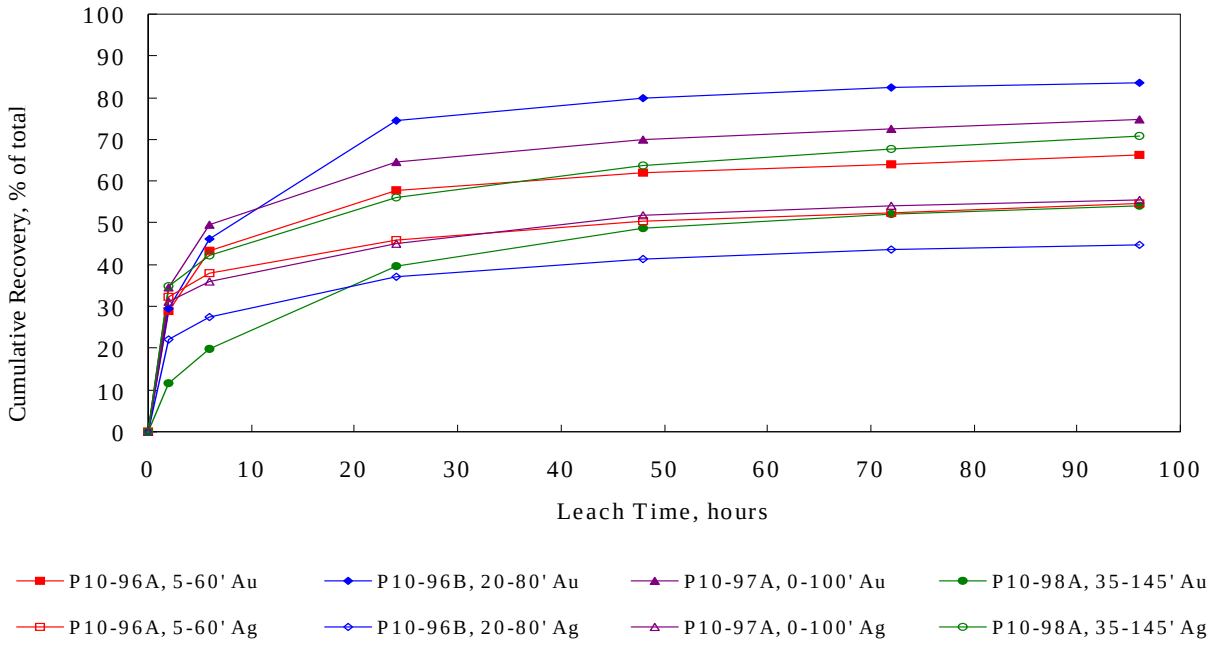


**Table 25. - Tail Assay Results, Bottle Leached Residues,
Comstock Mining Drill Cuttings Composites, As Received Feeds**

	Tail Grade, oz/ton							
	Drill Cuttings Composite							
	P10-96A, 5-60'		P10-96B, 20-80'		P10-97A, 0-100'		P10-98A, 35-145'	
Tail Assay	Au	Ag	Au	Ag	Au	Ag	Au	Ag
1	0.0059	0.076	0.0052	0.321	0.0044	0.070	0.0193	0.070
2	0.0051	0.058	0.0206	0.344	0.0021	0.117	0.0083	0.093
3	0.0057	0.055	0.0049	0.298	0.0032	0.111	0.0036	0.111
Average	0.0056	0.063	0.0102	0.321	0.0032	0.099	0.0104	0.091

Table 26. - Overall Metallurgical Results, Bottle Roll Tests,

Comstock Mining Drill Cuttings Composites, As Received Feed Size (~ Minus 1/2")

	Drill Cuttings Composite							
	P10-98B, 30-130'		P10-99A, 35-115'		P10-99B, 65-105'		P10-100A, 50-120'	
Metallurgical Results	Au	Ag	Au	Ag	Au	Ag	Au	Ag
Extraction: pct of total								
in 2 hours	10.3	15.8	23.9	28.9	23.5	13.6	22.0	31.2
in 6 hours	18.7	20.2	41.3	36.2	39.9	17.3	37.8	37.3
in 24 hours	53.3	29.0	73.4	46.4	67.2	24.3	68.9	49.4
in 48 hours	64.5	33.9	80.4	51.7	73.3	28.9	73.4	56.4
in 72 hours	68.1	36.2	81.5	54.1	74.4	31.7	78.0	62.0
in 96 hours	68.7	37.1	83.2	56.8	75.3	33.5	78.0	62.7
Extracted, oz/ton ore	0.0379	0.299	0.0153	0.234	0.0505	0.477	0.0138	0.259
Tail Assay, oz/ton[1)]	0.0173	0.507	0.0031	0.178	0.0166	0.947	0.0039	0.154
Calc'd. Head, oz/ton ore	0.0552	0.806	0.0184	0.412	0.0671	1.424	0.0177	0.413
Head Assay, oz/ton ore[1)]	0.0382	0.894	0.0183	0.417	0.1332	1.593	0.0194	0.537
NaCN Consumed, lb/ton ore	0.14		<0.05		0.14		0.29	
Lime Added, lb/ton ore	3.0		3.1		2.6		3.1	
Final Leach pH	10.9		10.9		10.4		10.2	
Natural pH (40% Solids)	7.5		7.7		7.9		7.8	
Final DO content, ppm	8.8		8.3		8.4		8.2	

1) Average of triplicate assays.

Figure 10. - Gold and Silver Leach Rate Profiles, Bottle Roll Tests, Comstock Mining Drill Cuttings Composites, As Received Feed Size (~ Minus 1/2")

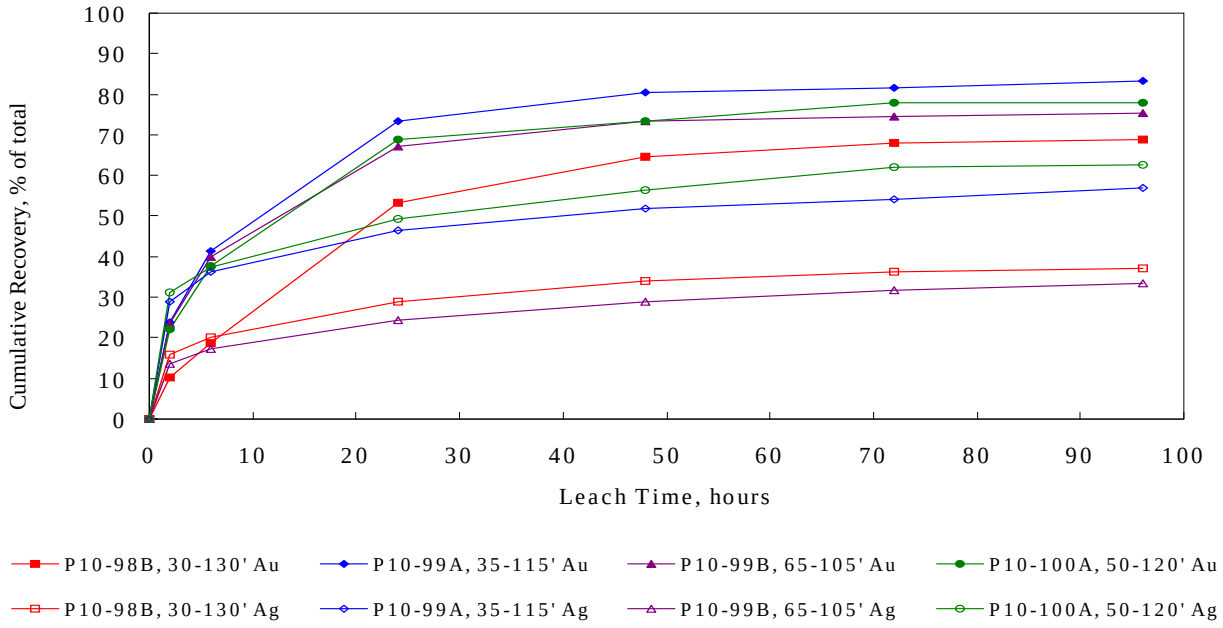


Table 27. - Tail Assay Results, Bottle Leached Residues, Comstock Mining Drill Cuttings Composites, As Received Feeds

	Tail Grade, oz/ton							
	Drill Cuttings Composite							
	P10-98B, 30-130'		P10-99A, 35-115'		P10-99B, 65-105'		P10-100A, 50-120'	
Tail Assay	Au	Ag	Au	Ag	Au	Ag	Au	Ag
1	0.0140	0.478	0.0029	0.184	0.0181	0.933	0.0027	0.158
2	0.0136	0.531	0.0034	0.192	0.0141	0.974	0.0051	0.122
3	0.0243	0.513	0.0030	0.158	0.0177	0.933	0.0039	0.181
Average	0.0173	0.507	0.0031	0.178	0.0166	0.947	0.0039	0.154

Table 28. - Overall Metallurgical Results, Bottle Roll Tests, Comstock Mining Drill Cuttings Composites, As Received Feed Size (~ Minus 1/2")

	Drill Cuttings Composite							
	P10-100B, 15-100'		P10-102A, 80-100'		P10-102B, 100-120'		P10-103A, 20-70'	
Metallurgical Results	Au	Ag	Au	Ag	Au	Ag	Au	Ag
Extraction: pct of total								
in 2 hours	23.2	12.7	20.2	13.0	16.0	8.3	19.3	18.9
in 6 hours	37.2	16.0	28.6	16.8	24.5	10.4	38.6	24.5
in 24 hours	61.0	23.0	53.8	24.8	34.1	14.6	66.7	38.7
in 48 hours	68.3	27.7	61.3	29.9	39.8	17.4	69.3	47.2
in 72 hours	72.9	30.3	63.9	32.8	41.8	18.9	73.7	51.9
in 96 hours	74.3	31.9	66.4	35.0	44.0	20.9	73.7	54.7
Extracted, oz/ton ore	0.0419	0.279	0.0158	0.254	0.0217	0.195	0.0084	0.058
Tail Assay, oz/ton[1)]	0.0145	0.595	0.0080	0.471	0.0276	0.737	0.0030	0.048
Calc'd. Head, oz/ton ore	0.0564	0.874	0.0238	0.725	0.0493	0.932	0.0114	0.106
Head Assay, oz/ton ore[1)]	0.0688	0.157	0.0188	0.222	0.0621	0.490	0.0063	0.136
NaCN Consumed, lb/ton ore	0.30		0.15		0.29		0.15	
Lime Added, lb/ton ore	4.8		3.6		3.2		5.5	
Final Leach pH	10.9		11.0		10.9		10.8	
Natural pH (40% Solids)	7.8		7.7		7.8		7.6	
Final DO content, ppm	8.1		8.1		7.7		7.4	

1) Average of triplicate assays.

Figure 11. - Gold and Silver Leach Rate Profiles, Bottle Roll Tests, Comstock Mining Drill Cuttings Composites, As Received Feed Size (~ Minus 1/2")

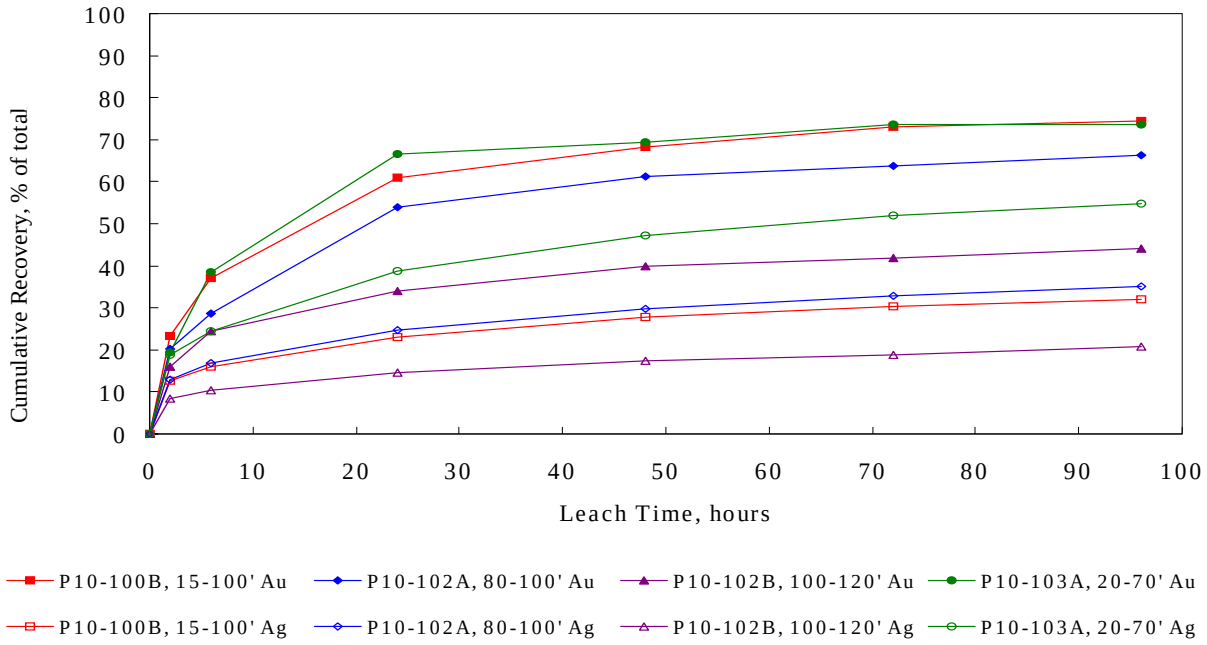


Table 29. - Tail Assay Results, Bottle Leached Residues, Comstock Mining Drill Cuttings Composites, As Received Feeds

	Tail Grade, oz/ton							
	Drill Cuttings Composite							
	P10-100B, 15-100'		P10-102A, 80-100'		P10-102B, 100-120'		P10-103A, 20-70'	
Tail Assay	Au	Ag	Au	Ag	Au	Ag	Au	Ag
1	0.0131	0.601	0.0102	0.478	0.0253	0.782	0.0026	0.052
2	0.0191	0.560	0.0096	0.440	0.0269	0.723	0.0026	0.058
3	0.0112	0.624	0.0043	0.496	0.0306	0.706	0.0037	0.035
Average	0.0145	0.595	0.0080	0.471	0.0276	0.737	0.0030	0.048

Table 30. - Overall Metallurgical Results, Bottle Roll Tests, Comstock Mining Drill Cuttings Composites, As Received Feed Size (~ Minus 1/2")

	Drill Cuttings Composite							
	P10-103B, 70-100'		P10-104A, 10-60'		P10-104B, 20-100'		P10-118A, 0-60'	
Metallurgical Results	Au	Ag	Au	Ag	Au	Ag	Au	Ag
Extraction: pct of total								
in 2 hours	18.8	11.9	15.8	9.1	17.4	14.1	20.3	23.5
in 6 hours	31.1	16.5	22.3	11.3	29.9	18.3	39.0	27.0
in 24 hours	62.6	27.2	42.4	15.6	51.3	26.4	65.7	32.1
in 48 hours	73.4	32.9	46.8	17.7	56.0	30.1	70.3	34.1
in 72 hours	76.7	36.3	48.2	18.6	57.7	31.9	75.0	35.5
in 96 hours	78.9	39.3	52.5	19.9	59.7	34.0	75.0	35.5
Extracted, oz/ton ore	0.0386	0.363	0.0073	0.046	0.0178	0.242	0.0129	0.104
Tail Assay, oz/ton[1)]	0.0103	0.560	0.0066	0.185	0.0120	0.469	0.0043	0.189
Calc'd Head, oz/ton ore	0.0489	0.923	0.0139	0.231	0.0298	0.711	0.0172	0.293
Head Assay, oz/ton ore[1)]	0.0443	0.406	0.0112	0.113	0.0280	0.216	0.0160	0.196
NaCN Consumed, lb/ton ore	0.16		0.16		<0.05		0.14	
Lime Added, lb/ton ore	3.5		5.8		4.8		4.9	
Final Leach pH	10.9		10.8		10.9		11.0	
Natural pH (40% Solids)	7.5		7.4		7.6		7.6	
Final DO content, ppm	8.5		8.3		8.1		8.1	

1) Average of triplicate assays.

Figure 12. - Gold and Silver Leach Rate Profiles, Bottle Roll Tests, Comstock Mining Drill Cuttings Composites, As Received Feed Size (~ Minus 1/2")

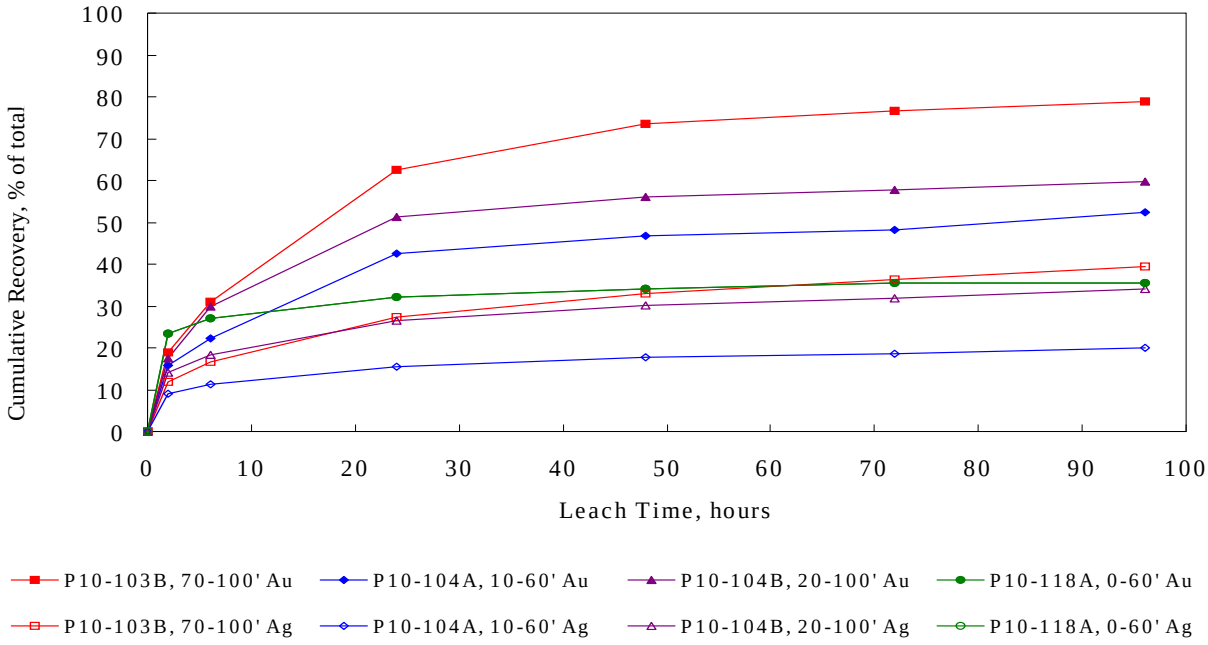


Table 31. - Tail Assay Results, Bottle Leached Residues, Comstock Mining Drill Cuttings Composites, As Received Feeds

	Tail Grade, oz/ton							
	Drill Cuttings Composite							
	P10-103B, 70-100'		P10-104A, 10-60'		P10-104B, 20-100'		P10-118A, 0-60'	
Tail Assay	Au	Ag	Au	Ag	Au	Ag	Au	Ag
1	0.0080	0.572	0.0041	0.187	0.0155	0.525	0.0054	0.187
2	0.0104	0.572	0.0014	0.192	0.0124	0.490	0.0047	0.187
3	0.0126	0.537	0.0142	0.175	0.0080	0.391	0.0029	0.192
Average	0.0103	0.560	0.0066	0.185	0.0120	0.469	0.0043	0.189

Table 32. - Overall Metallurgical Results, Bottle Roll Tests, Comstock Mining Drill Cuttings Composites, As Received Feed Size (~ Minus 1/2")

	Drill Cuttings Composite							
	P10-118B, 5-45'		P10-119A, 35-115'		P10-119B, 30-120'		P10-120A, 15-60'	
Metallurgical Results	Au	Ag	Au	Ag	Au	Ag	Au	Ag
Extraction: pct of total								
in 2 hours	10.1	19.3	7.1	14.6	4.5	13.2	10.1	39.3
in 6 hours	26.1	23.3	12.2	20.4	10.8	18.9	22.5	47.1
in 24 hours	59.8	31.4	40.2	31.1	37.2	29.3	50.0	64.9
in 48 hours	67.3	34.5	50.0	36.1	49.1	34.4	59.0	69.1
in 72 hours	67.3	34.5	53.5	38.9	53.4	37.2	61.2	71.2
in 96 hours	67.3	34.5	53.5	40.1	54.2	38.8	61.2	71.2
Extracted, oz/ton ore	0.0206	0.077	0.0136	0.143	0.0265	0.176	0.0109	0.136
Tail Assay, oz/ton[1)]	0.0100	0.146	0.0118	0.214	0.0224	0.278	0.0069	0.055
Calc'd. Head, oz/ton ore	0.0306	0.223	0.0254	0.357	0.0489	0.454	0.0178	0.191
Head Assay, oz/ton ore[1)]	0.0236	0.142	0.0323	0.360	0.0454	0.453	0.0229	0.157
NaCN Consumed, lb/ton ore	0.30		0.14		<0.05		0.28	
Lime Added, lb/ton ore	4.6		3.3		3.2		4.8	
Final Leach pH	11.0		11.2		11.1		11.2	
Natural pH (40% Solids)	8.1		7.5		7.5		7.2	
Final DO content, ppm	7.6		8.3		8.3		8.4	

1) Average of triplicate assays.

Figure 13. - Gold and Silver Leach Rate Profiles, Bottle Roll Tests, Comstock Mining Drill Cuttings Composites, As Received Feed Size (~ Minus 1/2")

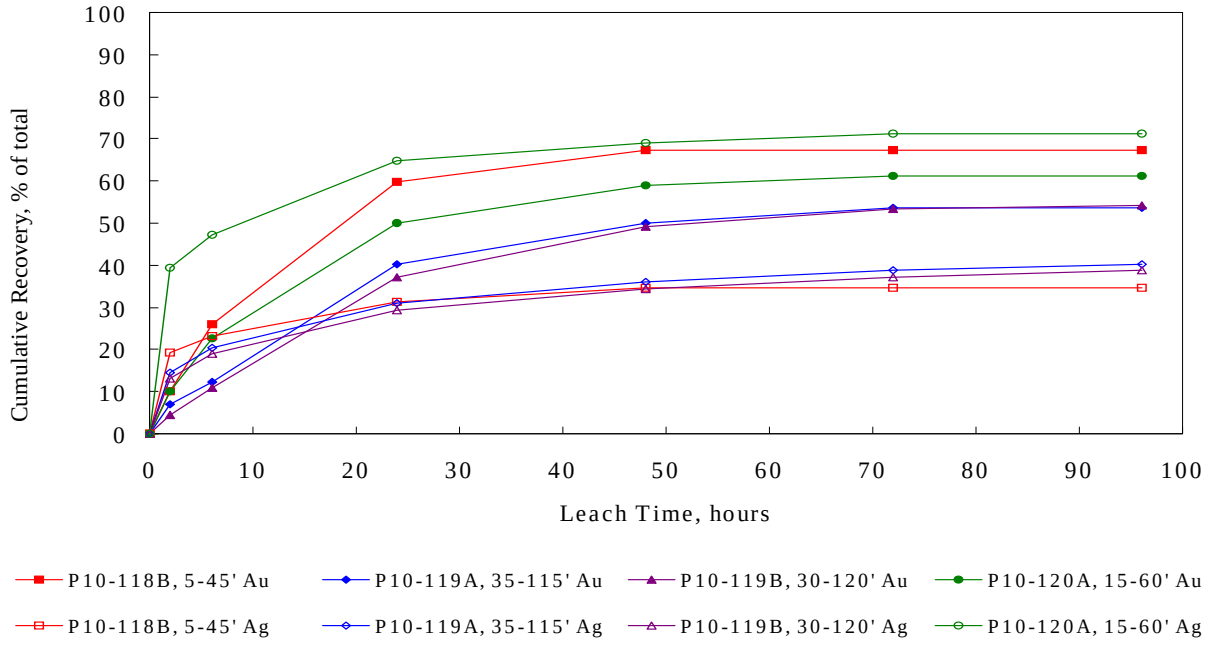


Table 33. - Tail Assay Results, Bottle Leached Residues, Comstock Mining Drill Cuttings Composites, As Received Feeds

	Tail Grade, oz/ton							
	Drill Cuttings Composite							
	P10-118B, 5-45'		P10-119A, 35-115'		P10-119B, 30-120'		P10-120A, 15-60	
Tail Assay	Au	Ag	Au	Ag	Au	Ag	Au	Ag
1	0.0207	0.169	0.0149	0.222	0.0243	0.338	0.0055	0.070
2	0.0059	0.140	0.0126	0.222	0.0143	0.280	0.0082	0.058
3	0.0034	0.128	0.0080	0.198	0.0285	0.216	0.0070	0.038
Average	0.0100	0.146	0.0118	0.214	0.0224	0.278	0.0069	0.055

Table 34. - Overall Metallurgical Results, Bottle Roll Tests, Comstock Mining Drill Cuttings Composites, As Received Feeds (~ Minus 1/2")

	Drill Cuttings Composite					
	P10-120B, 60-70'		P10-120C, 80-110'		P10-130A, 10-75'	
Metallurgical Results						
Extracted: pct of total	Au	Ag	Au	Ag	Au	Ag
in 2 hours	5.7	18.8	15.1	11.8	28.4	17.1
in 6 hours	13.3	26.1	26.4	16.4	37.8	19.9
in 24 hours	39.3	41.8	65.2	25.7	52.2	25.5
in 48 hours	50.8	48.6	73.6	29.9	56.2	28.6
in 72 hours	55.3	51.8	77.3	32.6	59.7	30.7
in 96 hours	56.3	53.1	77.3	33.6	59.7	31.6
Extracted, oz/ton ore	0.0694	0.283	0.0313	0.287	0.0120	0.181
Tail Assay, oz/ton[1)]	0.0539	0.250	0.0092	0.566	0.0081	0.392
Calc'd. Head, oz/ton ore	0.1233	0.533	0.0405	0.853	0.0201	0.573
Head Assay, oz/ton ore[2)]	0.1142	0.495	0.0428	0.473	0.0176	0.376
NaCN Consumed, lb/ton ore	0.15		0.16		0.28	
Lime Added, lb/ton ore	4.2		3.3		5.3	
Final Leach pH	11.3		11.3		11.0	
Natural pH (40% Solids)	7.4		7.7		7.9	
Final DO content, ppm	8.3		8.5		8.3	

1) Average of triplicate assays.

Figure 14. - Gold and Silver Leach Rate Profiles, Bottle Roll Tests, Comstock Mining Drill Cuttings Composites, As Received Feed Size (~ Minus 1/2")

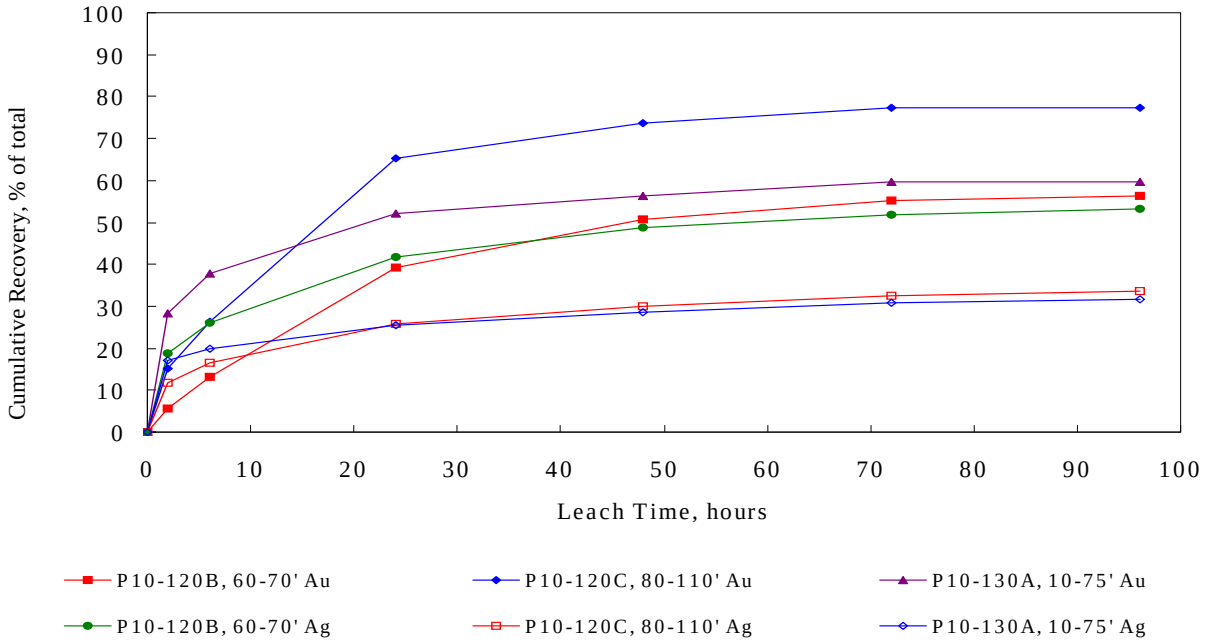


Table 35. - Tail Assay Results, Bottle Leached Residues, Comstock Mining Drill Cuttings Composites, As Received Feeds

	Tail Grade, oz/ton					
	Drill Cuttings Composite					
	P10-120B, 60-70'		P10-120C, 80-110'		P10-130A, 10-75'	
Tail Assay	Au	Ag	Au	Ag	Au	Ag
1	0.0573	0.254	0.0088	0.507	0.0073	0.367
2	0.0416	0.245	0.0101	0.554	0.0074	0.373
3	0.0628	0.251	0.0088	0.636	0.0095	0.437
Average	0.0539	0.250	0.0092	0.566	0.0081	0.392

Overall metallurgical results show that cuttings composites were amenable to cyanidation at the as received cuttings feed size (~ -1/2"). The cuttings composites were not identified by rock type or mining area, so results are summarized only in general as follows.

- Au head grades ranged from 0.0114 to 0.1233 oz/ton of ore. Gold recoveries ranged from 44.0 to 83.6 percent, and averaged 66.0 percent. Recovery was not ore grade dependent, and recovery vs. grade trends were not established.
- Ag head grades (calculated) ranged from 0.106 to 1.424 oz/ton of ore. Silver recoveries ranged from 19.9 to 71.2 percent, and averaged 42.1 percent. Ag recoveries also appear not to be grade dependent.
- Overall precious metal (PM) recovery rates were fairly slow, but extraction was substantially complete in about 24 hours. Additional PM values were extracted after 24 hours, but at a much slower rate. Values were being extracted when leaching was terminated at 96 hours.
- NaCN consumptions were low (<0.05-0.50 lb/ton ore).
- Lime requirements varied from 2.2 to 8.5 lbs/ton of ore. Controlling pH during leaching was somewhat difficult and only about 50% of the HCHL was added during initial pH adjustment procedures. The other 50% was added at every sample interval during leaching.

Overall metallurgical results for BT's conducted on the 13 core composites at a P_{80}1" crush size are provided in even numbered Tables 36 through 42. Separate Au and Ag leach rate profiles are shown in Figures 15 through 22. Triplicate tail assay results are provided in odd numbered Tables 37 through 43.

Table 36. - Overall Metallurgical Results, Bottle Roll Tests, Comstock Core Composites, P_{80}1" Feeds

	Composite			
Metallurgical Results	LSCCLY		LSCMN	
Extraction: pct of total	Au	Ag	Au	Ag
in 2 hours	21.7	14.0	16.4	27.6
in 6 hours	31.0	17.6	22.1	29.6
in 24 hours	40.5	23.1	27.9	33.6
in 48 hours	43.0	26.1	30.4	36.1
in 72 hours	43.0	26.1	31.7	38.0
in 96 hours	43.0	26.1	32.2	39.4
Extracted, oz/ton ore	0.0572	0.222	0.0300	0.858
Tail Assay, oz/ton[1)]	0.0757	0.630	0.0633	1.321
Calculated Head, oz/ton ore	0.1329	0.852	0.0933	2.179
Projected Head, oz/ton ore[2)]	N/A	N/A	N/A	N/A
NaCN Consumed, lb/ton ore	1.06		0.45	
Lime Added, lb/ton ore	12.5		6.0	
Final Leach pH	11.1		11.2	
Natural pH (40% solids)	7.3		7.6	
Final DO, ppm	6.1		6.7	

1) Average of triplicate tail assays.
2) Assays provided by Comstock Mining.

Figure 15. - Gold Leach Rate Profiles, Bottle Roll Tests, Comstock Core Composites, P_{80}1" Feeds

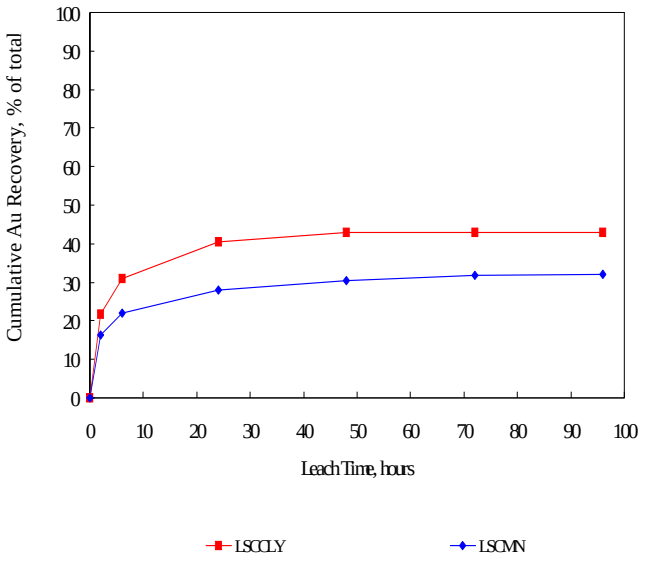


Figure 16. - Silver Leach Rate Profiles, Bottle Roll Tests, Comstock Core Composites, P_{80}1" Feeds

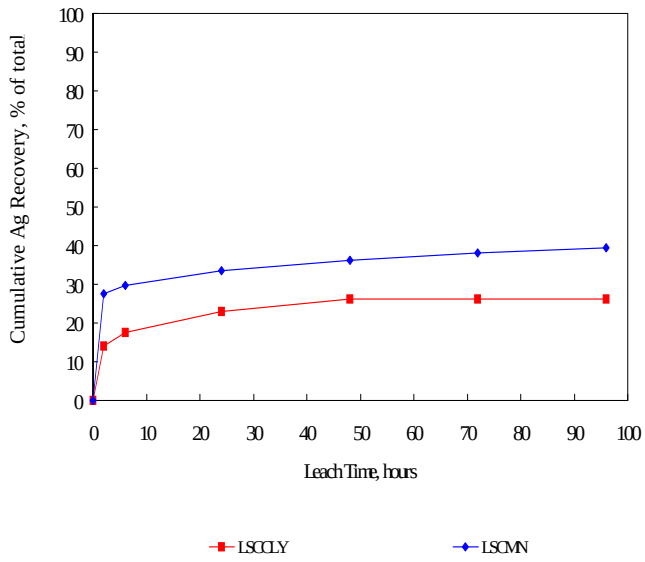


Table 37. - Triplicate Tail Assay Results, Bottle Leached Residues, Comstock Core Composites, P_{80}1" Feeds

	Tail Grade, oz/ton			
	Core Composite			
	LSCCLY		LSCMN	
Tail Assay	Au	Ag	Au	Ag
1	0.050	0.578	0.063	1.238
2	0.097	0.670	0.065	1.293
3	0.080	0.642	0.062	1.432
Average	0.0757	0.630	0.0633	1.321

Table 38. - Overall Metallurgical Results, Bottle Roll Tests, Comstock Core Composites, P_{80}1" Feeds

	Composite					
	PC11-08, 65-75'		PC11-08, 95-120'		PC11-08, 120-135'	
Metallurgical Results						
Extraction: pct of total	Au	Ag	Au	Ag	Au	Ag
in 2 hours	10.3	10.7	16.3	4.7	0.5	7.8
in 6 hours	23.0	19.6	26.8	6.6	1.0	11.0
in 12 hours	37.7	30.3	37.2	8.7	1.4	15.5
in 24 hours	55.1	42.9	46.9	11.4	1.7	22.2
in 48 hours	76.6	64.0	58.6	15.9	2.2	34.1
in 72 hours	91.5	76.7	69.0	19.2	2.5	40.7
in 96 hours	98.0	83.9	76.2	21.8	2.7	44.6
Extracted, oz/ton ore	0.2537	0.338	0.0182	0.163	0.0223	0.585
Tail Assay, oz/ton[1)]	0.0053	0.065	0.0057	0.585	0.8000	0.728
Calculated Head, oz/ton ore	0.2590	0.403	0.0239	0.748	0.8223	1.313
Projected Head, oz/ton ore[2)]	N/A	N/A	N/A	N/A	N/A	N/A
NaCN Consumed, lb/ton ore	0.30		0.16		<0.05	
Lime Added, lb/ton ore	5.8		4.3		2.6	
Final Leach pH	10.9		10.7		10.8	
Natural pH (40% solids)	7.5		7.5		7.8	
Final DO, ppm	6.5		7.1		7.3	

1) Average of triplicate tail assays.
2) Assays provided by Comstock Mining.

Figure 17. - Gold Leach Rate Profiles, Bottle Roll Tests, Comstock Core Composites, P_{80}1" Feeds

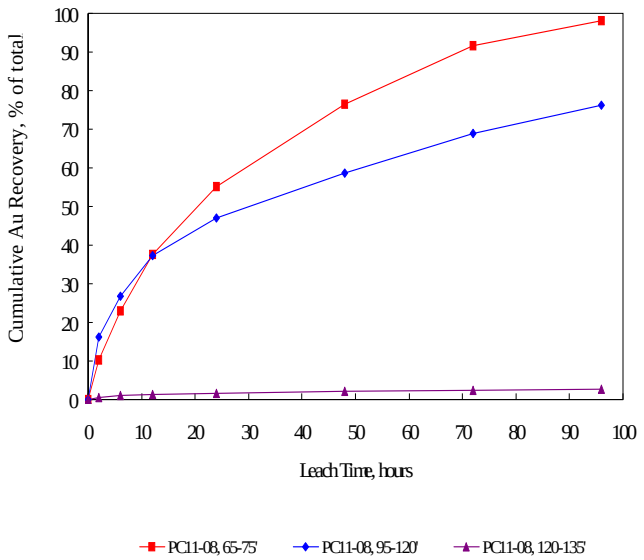


Figure 18. - Silver Leach Rate Profiles, Bottle Roll Tests, Comstock Core Composites, P_{80}1" Feeds

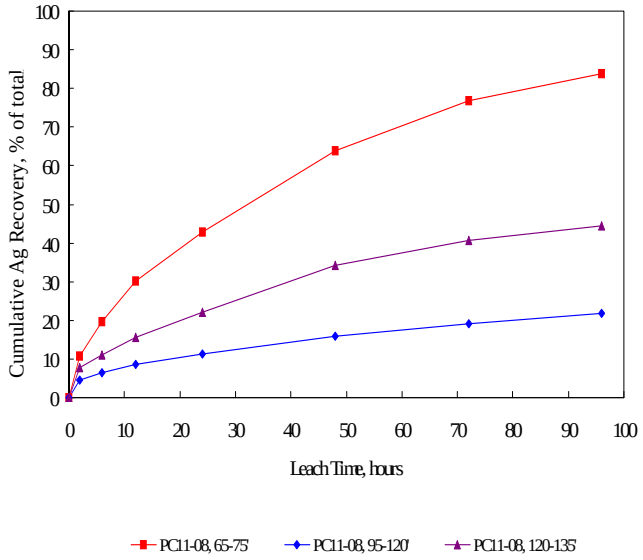


Table 39. - Tail Assay Results, Bottle Leached Residues, Comstock Core Composites, P_{80}1" Feeds

	Tail Grade, oz/ton Ore Composite					
	PC11-08, 65-75'		PC11-08, 95-120'		PC11-08, 120-135'	
Tail Assay	Au	Ag	Au	Ag	Au	Ag
1	0.005	0.065	0.006	0.650	0.737	0.700
2	0.005	0.055	0.005	0.501	0.812	0.726
3	0.006	0.074	0.006	0.604	0.851	0.758
Average	0.0053	0.065	0.0057	0.585	0.8000	0.728

Table 40. - Overall Metallurgical Results, Bottle Roll Tests, Comstock Core Composites, P_{80}1" Feeds

	Composite							
	EC11-01, 0-30'		EC11-01, 30-70'		EC11-01, 70-90'		EC11-01, 90-127'	
Metallurgical Results	Au	Ag	Au	Ag	Au	Ag	Au	Ag
Extraction: pct of total								
in 2 hours	17.0	10.7	4.5	5.5	8.7	6.1	22.2	5.0
in 6 hours	34.0	13.8	8.0	8.2	10.9	7.6	27.8	7.5
in 24 hours	45.3	19.1	15.9	12.5	19.6	13.6	50.0	10.0
in 48 hours	54.7	23.6	20.1	15.2	21.7	18.2	55.6	15.0
in 72 hours	58.5	26.2	21.8	17.6	32.6	21.2	61.1	17.5
in 96 hours	62.3	28.9	23.9	19.1	34.8	24.2	61.1	17.5
Extracted, oz/ton ore	0.0033	0.065	0.0069	0.049	0.0016	0.016	0.0011	0.007
Tail Screen, oz/ton[1)]	0.0020	0.160	0.0220	0.207	0.0030	0.050	0.0007	0.033
Calculated Head, oz/ton ore	0.0053	0.225	0.0289	0.256	0.0046	0.066	0.0018	0.040
Projected Head, oz/ton ore[2)]	0.0055	0.335	0.0230	0.257	0.0035	0.064	0.0020	0.034
NaCN Consumed, lb/ton ore	<0.05		0.15		0.30		0.45	
Lime Added, lb/ton ore	2.2		2.2		2.2		2.0	
Final Solution pH	10.8		11.0		11.1		11.1	
Natural pH (40% solids)	7.3		7.4		7.5		7.5	
Final DO, ppm	6.4		6.7		6.8		6.6	

1) Average of triplicate tail assays.
2) Assays provided by Comstock Mining.

Figure 19. - Gold Leach Rate Profiles, Bottle Roll Tests, Comstock Core Composites, P_{80}1" Feeds

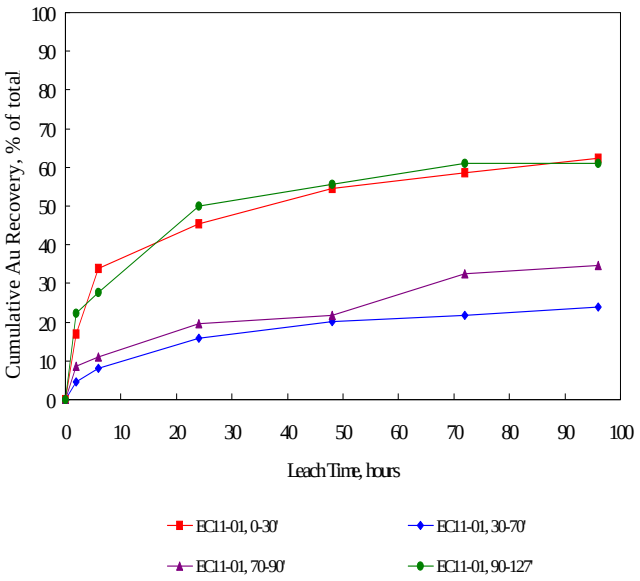


Figure 20. - Silver Leach Rate Profiles, Bottle Roll Tests, Comstock Core Composites, P_{80}1" Feeds

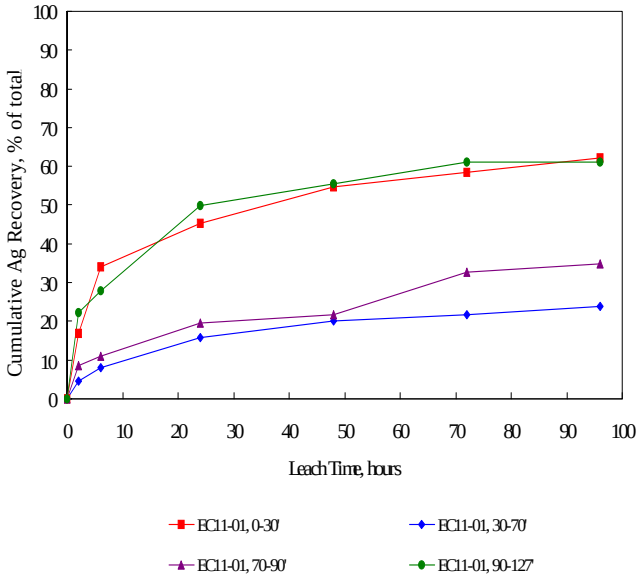


Table 41. - Triplicate Tail Assay Results, Bottle Leached Residues, Comstock Core Composites, P_{80}1" Feeds

	Tail Grade, oz/ton							
	Core Composite							
	EC11-01, 0-30'		EC11-01, 30-70'		EC11-01, 70-90'		EC11-01, 90-127'	
Tail Assay	Au	Ag	Au	Ag	Au	Ag	Au	Ag
1	0.002	0.156	0.020	0.220	0.004	0.050	0.001	0.032
2	0.002	0.164	0.025	0.209	0.002	0.049	<0.001[1)]	0.032
3	0.002	0.160	0.021	0.193	0.003	0.051	<0.001[1)]	0.034
Average	0.0020	0.160	0.0220	0.207	0.0030	0.050	0.0007	0.033

1) Values of 0.0005 ozAu/ton were used for tail assays of <0.001 ozAu/ton.

Table 42. - Overall Metallurgical Results, Bottle Roll Tests, Comstock Core Composites, P_{80}1" Feeds

	Composite							
	PC11-10, 0-20'		PC11-10, LG Comp		PC11-10, HG Comp		PC11-11, 75-90, 185-190'	
Metallurgical Results	Au	Ag	Au	Ag	Au	Ag	Au	Ag
Extraction: pct of total								
in 2 hours	>39	46.4	25.5	10.0	13.3	16.7	5.6	4.5
in 6 hours	>54	53.6	35.3	11.5	25.5	26.2	5.9	6.8
in 24 hours	>58	60.7	47.1	20.0	44.9	42.9	14.4	13.6
in 48 hours	>64	64.3	49.0	25.0	53.3	50.0	18.1	15.9
in 72 hours	>67	67.9	52.9	30.0	58.7	57.1	21.9	18.2
in 96 hours	>70	67.9	54.9	30.0	64.3	59.5	23.1	20.4
Extracted, oz/ton ore	0.0023	0.019	0.0028	0.006	0.0252	0.025	0.0037	0.009
Tail Screen, oz/ton[1)]	<0.0010	0.009	0.0023	0.014	0.0140	0.017	0.0123	0.035
Calculated Head, oz/ton ore	<0.0033	0.028	0.0051	0.020	0.0392	0.042	0.0160	0.044
Projected Head, oz/ton ore[2)]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NaCN Consumed, lb/ton ore	0.75		0.76		0.76		0.32	
Lime Added, lb/ton ore	4.3		6.0		5.0		2.4	
Final Solution pH	10.9		10.9		10.8		11.0	
Natural pH (40% solids)	8.0		7.2		7.4		7.5	
Final DO, ppm	6.1		5.9		5.3		5.7	

1) Average of triplicate tail assays.
2) Assays provided by Comstock Mining.

Figure 21. - Gold Leach Rate Profiles, Bottle Roll Tests, Comstock Core Composites, P_{80}1" Feeds

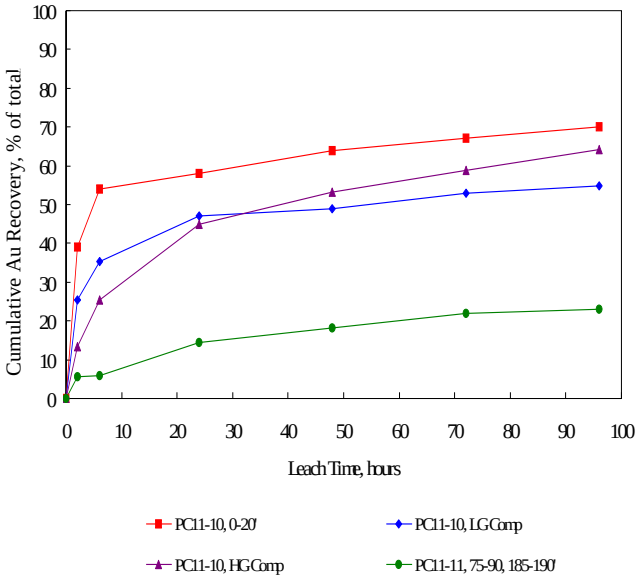


Figure 22. - Silver Leach Rate Profiles, Bottle Roll Tests, Comstock Core Composites, P_{80}1" Feeds

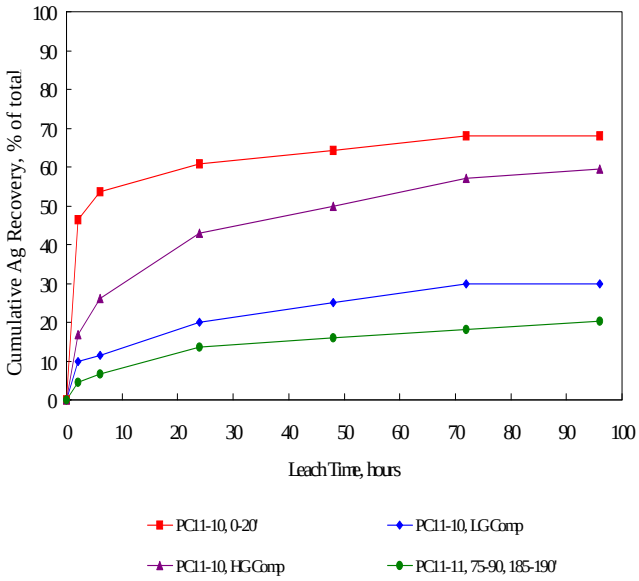


Table 43. - Triplicate Tail Assay Results, Bottle Leached Residues, Comstock Core Composites, P_{80}1" Feeds

	Tail Grade, oz/ton							
	Core Composite							
	PC11-10, 0-20'		PC11-10, LG Comp		PC11-10, HG Comp		PC11-11, 75-90, 185-190'	
Tail Assay	Au	Ag	Au	Ag	Au	Ag	Au	Ag
1	<0.001	0.009	0.002	0.008	0.012	0.014	0.015	0.027
2	<0.001	0.009	0.002	0.009	0.014	0.021	0.012	0.046
3	<0.001	0.008	0.003	0.024	0.016	0.016	0.010	0.031
Average	<0.0010	0.009	0.0023	0.014	0.0140	0.017	0.0123	0.035

Metallurgical results for these 13 composites were summarized in the Executive Summary of this report. Data are not summarized again here because recoveries varied so much, and because many of the composites were submitted principally for environmental testwork and analyses. As mentioned in the Executive Summary, two tests should be re-run to confirm anomalous results (PC11-08, 120-135' and PC11-08, 65-75').

COLUMN PERCOLATION LEACH TEST PROCEDURES AND RESULTS

Column percolation leach tests were conducted on seven bulk ore samples (not composited), two bulk ore composites (HM-MG, LM-LG) and one core composite (PC10-07, 08, 51-93') at P_{80}1" and P_{80}1/2" crush sizes to determine PM recoveries, recovery rates, reagent requirements, and sensitivity to crush size with respect to recovery and recovery rate.

The P_{80}1" crush size was selected as the coarsest feed size for evaluation because BT recoveries from P_{80}2" feeds were lower than expected.

All ore charges were agglomerated with addition of 12.0 lbs portland Type II cement/ton of ore and water before column loading. Agglomerated ore charges were cured in the leach coulmns for 72 hours before applying NaCN leach solution. Cement (12 lb/ton) added during agglomeration pretreatment was sufficient to maintain protective alkalinity at above pH 10 during the continuous and intermittent leach cycles. Agglomerating conditions were established by conducting agglomerate strength and stability tests on low-grade and pulp-agglomerated ore samples as part of the initial testing program (MLI Job No. 3273).

All column leach tests were conducted in 6" I.D. x 10' high PVC columns using the following summarized procedures.

- Agglomerate ore charges (~ 160 lbs) by adding and mixing cement to dry ore charges, adding water while tumbling to affect agglomeration and curing in the leach columns for 72 hours before leaching.
- NaCN leach solution, equivalent to 0.25 gNaCN/L (0.5 lbs/ton of sol), was applied to the ore charges at a rate of 0.005 gpm/ft^2 of column cross-sectional area. Leach solution was applied using peristaltic pumps to ensure constant application rate.
- Ore charges were leached continuously for 76 days, at which time Au and Ag preg grades neared analytical detection limits. After 76 days, intermittent leach cycles (2 week rest/1 week leach) were initiated.
- Daily (and intermittent) leach procedures were as follows:
  - Measure daily preg volume by weighing and sample (30 mL) for Au, Ag, pH, NaCN analyses.
  - Pump preg solution through 3-5 stage carbon circuits.
  - Measure daily barren solution volume by weighing and sample (30 mL) for Au, Ag, pH, NaCN.
  - Add make-up water and NaCN and recirculate barren to ore charges.

  - When value breakthrough to barrens occurred (principally Au), the lead carbon was pulled, dried, weighed and assayed for Au, Ag. Carbon columns were advanced and fresh, attrited carbon was placed into the tailing carbon column. All loaded carbons were assayed for Au and Ag when tests were terminated to obtain a metallurgical balance against cumulative extracted values (mass basis) determined by preg solution AA analyses.
  - Leach cycles, including rest cycles, were 154 days for most CT's. Leach cycles for HM-MG (P4), HM-011 (P6) and LM-010, 011 (P9) were 181 days.
  - After leaching, residues were rinsed with water to comply with county regulatory requirements (no detectable NaCN) and to recover remaining dissolved PM values. Rinse cycles were five days for 17 tests and 10 days for the other three (P4, P6, P9).
- After rinsing, residues were allowed to drain down and were removed from the columns.
- Residues were blended and split moist to obtain two 5 gallon buckets of each for potential geotechnical testwork (load/permeability, shear tests) and about 5 kg for residual moisture content determination.
- Remaining residues were air dried and used for tail screen analyses.
- Head and tail screen analysis data was used to calculate recovery by size fraction data (results later in this report).

As mentioned above, residues were saved for geotechnical testwork, but Comstock Mining personnel have not selected residues for evaluation.

Agglomerated head ore (before leaching) for P_{80}1" and P_{80}1/2" crush sizes for bulk ore samples/composites HM-MG and HM-010 were submitted to Applied Soil Water Technologies, LLC for preliminary load/permeability (load vs. hydraulic conductivity) tests. The results, already distributed, were confusing. Hydraulic conductivity to loads up to a 105' heap stack height were acceptable for the HM-MG P_{80}1" and HM-010 P_{80}1/2" feeds (~ 3.5×10^{-2} cm/sec), but not for the HM-MG P_{80}1/2" and HM-010 P_{80}1" feeds (~ 4×10^{-4} cm/sec). Results show that two tests showed good permeability to 105' stack heights, but the other two showed poor and unacceptable permeability even for a 21' stack height. It is imperative to run additional load/permeability tests on select P_{80}1" leached residues to resolve the confusion and to determine ultimate stack heights for commercial heaps.

Milling and CCD cyanidation remains a process option for all ore types. Previous tests (MLI Job No. 3273) show that Au recoveries from P_{80}100 mesh feeds were over 96 percent regardless of rock type and grade.

Overall metallurgical results from CT's are provided in Tables 44 through 47. Separate gold and silver leach rate profiles are shown in Figures 23 through 30. Pertinent daily column leach test data for the 20 CT's is provided in the Appendix to this report.

Table 44. - Overall Metallurgical Results, Column Leach Tests, Comstock Dayton Bulk Ore Samples, Varied Crush Sizes

	Dayton Bulk Ore Sample											
	DA-001 (LG)				DP-004 (MG)				DP-005 (MG)			
Metallurgical Results	P_{80}1" (P1)		P_{80}1/2" (P11)		P_{80}1" (P2)		P_{80}1/2" (P12)		P_{80}1" (P3)		P_{80}1/2" (P13)	
Extraction: pct of total	Au	Ag	Au	Ag	Au	Ag	Au	Ag	Au	Ag	Au	Ag
1st Preg (Day 2)	4.2	3.4	4.3	2.7	7.6	0.1	6.0	0.1	5.6	1.2	4.2	0.6
in 5 days	21.8	12.8	31.7	14.1	68.1	13.0	69.1	15.5	47.0	12.7	52.5	16.8
in 10 days	31.9	18.7	42.7	19.2	82.0	18.9	82.5	22.2	58.8	17.9	68.2	24.5
in 15 days	36.4	21.7	47.0	22.0	86.0	22.5	86.8	26.6	63.1	21.4	73.3	29.5
in 20 days	39.2	24.3	50.1	24.1	88.1	25.2	88.9	29.8	65.6	24.0	75.9	32.5
in 30 days	43.1	28.5	53.9	27.1	90.2	29.8	91.2	35.2	68.6	28.0	78.7	37.2
in 40 days	45.7	31.5	56.5	29.6	91.3	33.4	92.3	39.4	70.4	30.9	79.9	39.4
in 50 days	47.8	33.6	58.5	31.3	92.1	36.4	93.1	42.9	71.8	33.5	80.8	41.3
in 76 days	51.7	37.4	62.2	33.7	93.0	40.7	93.3	44.4	73.8	37.4	81.7	43.7
in 97 days	53.2	39.1	63.7	34.7	93.2	42.1	93.5	46.0	74.1	38.5	82.2	45.1
in 118 days	54.3	40.9	64.6	35.7	93.4	44.5	93.9	49.2	74.8	40.1	83.1	47.7
End of Leach (154 days)	55.3	42.1	65.4	36.8	93.8	46.5	94.1	51.7	75.3	41.7	83.6	49.7
End of Rinse (159 days)	55.3	42.6	65.4	37.1	93.8	47.3	94.1	52.5	75.4	42.1	83.7	50.3
Extracted, oz/ton ore	0.0213	0.100	0.0227	0.108	0.0496	0.381	0.0490	0.410	0.1015	0.341	0.1028	0.351
Tail Screen, oz/ton	0.0172	0.135	0.0120	0.183	0.0033	0.425	0.0031	0.371	0.0331	0.469	0.0200	0.347
Calc'd. Head, oz/ton ore	0.0385	0.235	0.0347	0.291	0.0529	0.806	0.0521	0.781	0.1346	0.810	0.1228	0.698
Head Screen, oz/ton ore	0.0516	0.22	0.0365	0.22	0.0589	0.80	0.0601	0.78	0.1216	0.86	0.1127	0.76
BT (1/2") Recovery, %	N/A	N/A	53.7	38.1	N/A	N/A	85.4	34.6	N/A	N/A	74.9	36.1
NaCN Consumed, lb/ton ore	0.64		0.79		2.31		2.38		1.47		2.12	
Cement Added, lb/ton ore[1)]	12.0		12.0		12.0		12.0		12.0		12.0	
Final Leach pH	10.8		10.8		9.8		9.8		10.1		10.4	
Final Rinse pH	11.5		11.6		10.4		10.6		11.0		11.1	
Tons Sol Applied/ton ore[2)]	7.1		7.1		7.2		7.3		7.2		7.2	

1) Cement added during agglomeration, before leaching.
2) Tons leach solution applied/ton of ore leached - through end of leach cycle.

Figure 23. - Gold Leach Rate Profiles, Column Leach Tests, Comstock Dayton Bulk Ore Samples, Varied Crush Sizes

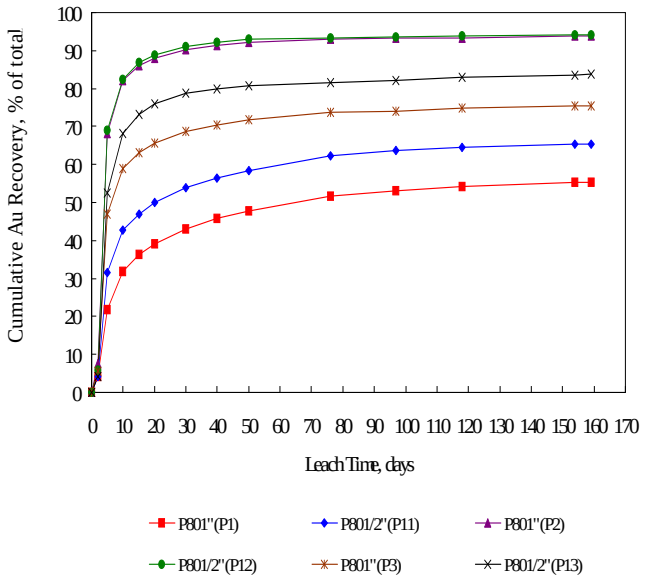
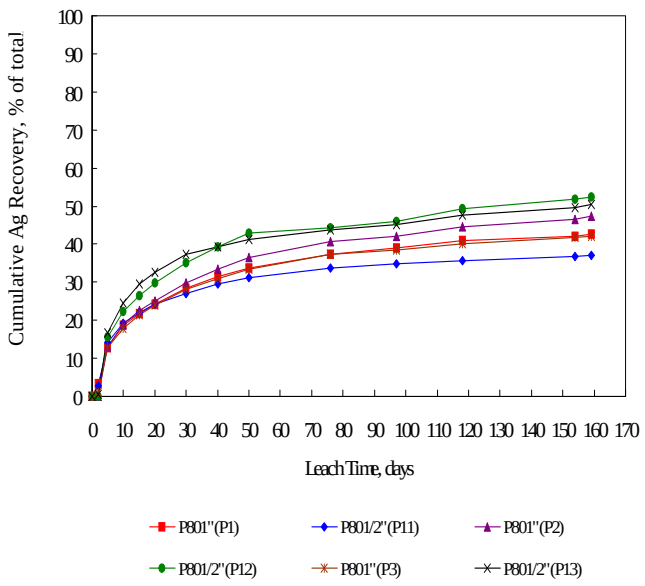


Figure 24. - Silver Leach Rate Profiles, Column Leach Tests, Comstock Dayton Bulk Ore Samples, Varied Crush Sizes



Overall metallurgical results show that bulk ore samples from the Dayton area were amenable to heap leach cyanidation at P_{80}1" and P_{80}1/2" crush sizes. Bulk ore sample DP-004 (MG-AA rock type) was not sensitive to crush size with respect to Au recovery or recovery rate. The other two bulk ore samples, DA-001 (LG-mixed rock type) and DP-005 (MG-AA rock type) were somewhat sensitive to crush size and recoveries were about 10% higher for the P_{80}1/2" crush size. Other results are summarized as follows.

- Initial PM recovery rates were fairly rapid and extraction was substantially complete in from 30 to 40 days. Additional extraction occurred after 30 to 40 days, but at a much slower rate. It is anticipated that long heap leach cycles are required to dissolve electrum contained in the feeds.
- Calculated head grades for respective tests on P_{80}1" and P_{80}1/2" crush sizes agreed closely for ore with a known “nugget” effect.
- As discussed in the Executive Summary of this report, CT gold recoveries were higher than BT recoveries for P_{80}1/2" feeds: for DA-001, +11.7%; for DP-004, +8.7%; and for DP-005, +8.8%. This increase in Au recovery will likely apply to P_{80}1" feeds (no BT’s conducted on P_{80}1" feeds).
- NaCN consumptions were generally high, but commercial heap consumptions should be lower by a factor of 3 to 4 if cyanicides are not contained in the feeds. BT consumptions typically better predict commercial consumptions than CT consumptions.
- Cement added during agglomeration pre-treatment (12 lb/ton ore) was sufficient for protective alkalinity during leaching.
- Solution pH increased during the rinse cycles. This is typical for cement agglomeration because cement hydrolizes again when unbuffered solution (water) is applied to leached residues.
- About 7 tons of leach solution per ton of solids leached was required to achieve ultimate recovery.

Table 45. - Overall Metallurgical Results, Column Leach Tests, Comstock Hartford Bulk Ore Samples, Varied Crush Sizes

	Hartford Bulk Ore Sample											
	HM-MG (Comp)				HM-010 (HG)				HM-011 (LG)			
Metallurgical Results	P_{80}1" (P4)		P_{80}1/2" (P14)		P_{80}1" (P5)		P_{80}1/2" (P15)		P_{80}1" (P6)		P_{80}1/2" (P16)	
Extraction: pct of total	Au	Ag	Au	Ag	Au	Ag	Au	Ag	Au	Ag	Au	Ag
1st Preg (Day 2)	6.1	1.4	3.4	0.4	1.1	0.3	0.5	0.1	4.2	2.7	2.5	0.8
in 5 days	39.5	16.1	33.6	15.0	20.7	22.5	17.1	24.3	44.3	40.5	49.7	43.6
in 10 days	51.4	21.3	44.3	20.6	31.7	27.7	28.8	32.0	57.5	47.3	64.3	51.2
in 15 days	56.1	24.3	48.9	24.2	37.6	30.8	34.5	35.9	62.3	50.3	69.4	54.6
in 20 days	59.2	26.6	51.7	26.7	41.8	32.8	38.2	38.5	65.9	52.3	72.0	56.6
in 30 days	62.9	30.4	55.2	30.9	47.5	36.0	43.7	42.7	69.5	54.7	75.8	60.0
in 40 days	65.3	32.9	57.5	33.9	51.6	38.2	47.3	45.6	72.5	56.8	77.7	62.0
in 50 days	66.7	34.6	58.3	35.0	54.7	39.9	50.0	47.6	74.3	58.3	79.0	63.7
in 76 days	68.7	36.2	59.8	36.1	59.5	42.7	53.3	50.5	77.2	60.6	81.5	65.8
in 97 days	69.4	37.4	60.3	37.2	61.2	43.8	54.8	51.9	77.8	61.8	82.2	67.1
in 118 days	70.1	39.0	61.8	39.2	62.6	44.9	56.1	53.4	78.4	63.0	82.2	68.2
End of Leach (154 days)	71.8 (181)	42.5	62.6	40.6	63.9	45.9	57.5	54.7	79.0 (181)	65.4	82.8	69.4
End of Rinse (159 days)	72.1 (191)	43.0	62.6	41.0	64.3	46.2	57.9	55.1	79.6 (191)	65.6	82.8	69.7
Extracted, oz/ton ore	0.0212	0.184	0.0218	0.183	0.0863	0.585	0.0902	0.549	0.0133	0.434	0.0130	0.451
Tail Screen, oz/ton	0.0082	0.244	0.0130	0.263	0.0479	0.680	0.0655	0.448	0.0034	0.228	0.0027	0.196
Calc'd. Head, oz/ton ore	0.0294	0.428	0.0348	0.446	0.1342	1.265	0.1557	0.997	0.0167	0.662	0.0157	0.647
Head Screen, oz/ton ore	0.0328	0.44	0.0350	0.45	0.1398	1.18	0.1531	1.13	0.0150	0.70	0.0173	0.68
BT (1/2") Recovery, %	N/A	N/A	47.5	27.8	N/A	N/A	37.5	46.6	N/A	N/A	72.4	66.7
NaCN Consumed, lb/ton ore	2.21		2.05		1.29		1.52		1.68		1.26	
Cement Added, lb/ton ore[1)]	12.0		12.0		12.0		12.0		12.0		12.0	
Final Leach pH	10.6		9.8		10.6		10.6		10.5		10.7	
Final Rinse pH	10.7		10.8		11.5		11.5		11.3		11.6	
Tons Sol Applied/ton ore[2)]	7.8		7.0		7.1		7.1		8.2		7.2	

1) Cement added during agglomeration, before leaching.
2) Tons leach solution applied/ton of ore leached - through end of leach cycle.

Figure 25. - Gold Leach Rate Profiles, Column Leach Tests, Comstock Hartford Bulk Ore Samples, Varied Crush Sizes

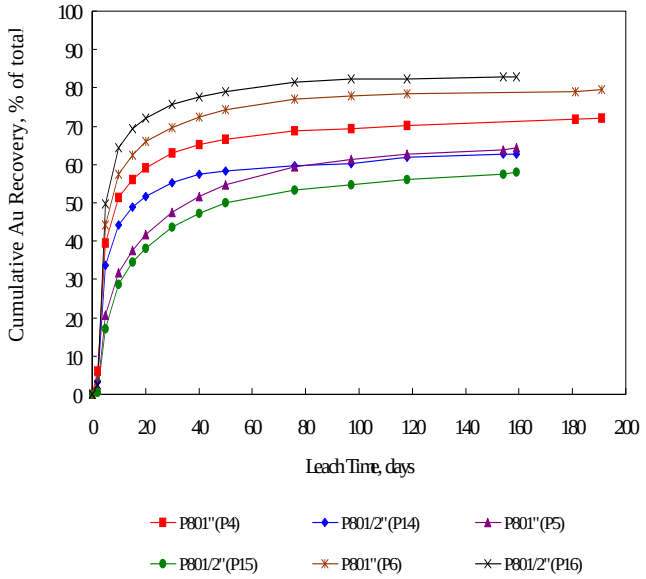
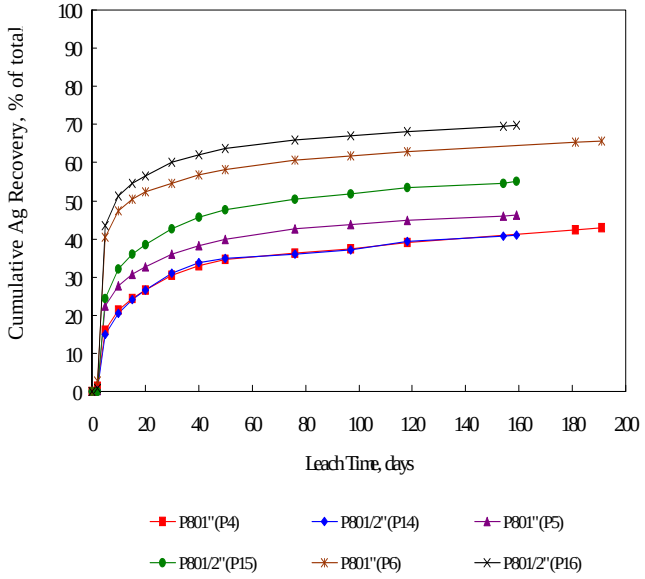


Figure 26. - Silver Leach Rate Profiles, Column Leach Tests, Comstock Hartford Bulk Ore Samples, Varied Crush Sizes



Overall metallurgical results show that bulk ore samples/composites from the Hartford area were amenable to heap leach cyanidation and were not sensitive to crush size with respect to PM recovery ore recovery rate. Other results are summarized below.

- PM recovery rates were slower than for Dayton area samples, but extraction was substantially complete in about 50 days. Extraction progressed at a slower rate after 50 days. Extraction was progressing at a very slow rate when leaching was terminated at 154 or 181 days. Recoveries would increase somewhat with longer leach cycles.
- CT gold recoveries were higher than BT recoveries for P_{80}1/2" feeds: for HM-MG (QP/MV composited rock type), +15.1%; for HM-010 (HG-AA/QP), +20.4%; and for HM-011 (LG-QP), +10.4%.
- Remaining summary comments for Dayton area samples apply to Hartford area samples.

Table 46. - Overall Metallurgical Results, Column Leach Tests, Comstock Lucerne Bulk Ore Samples, Varied Crush Sizes

	Lucerne Bulk Ore Sample											
	LM-LG (Comp)				LM-006, 007 (LG)				LM-010, 011 (HG)			
Metallurgical Results	P_{80}1" (P7)		P_{80}1/2" (P17)		P_{80}1" (P8)		P_{80}1/2" (P18)		P_{80}1" (P9)		P_{80}1/2" (P19)	
Extraction: pct of total	Au	Ag	Au	Ag	Au	Ag	Au	Ag	Au	Ag	Au	Ag
1st Preg (Day 2)	6.3	1.7	6.2	1.4	6.6	4.7	3.2	2.0	1.9	1.4	1.6	1.0
in 5 days	39.8	13.2	39.7	11.9	33.8	24.5	30.1	25.0	23.7	16.0	23.8	15.4
in 10 days	51.6	18.2	52.6	18.5	47.4	32.3	42.2	35.2	35.7	23.4	36.9	24.1
in 15 days	56.6	21.7	58.2	22.2	54.0	36.5	48.2	39.8	42.1	27.7	43.5	28.8
in 20 days	60.2	24.2	61.9	25.0	58.7	39.6	52.6	43.4	47.0	30.8	47.9	31.9
in 30 days	64.7	28.3	66.5	29.5	65.3	44.8	59.0	48.5	53.5	35.3	54.2	35.5
in 40 days	67.9	31.3	69.6	32.7	70.0	48.4	63.5	52.0	58.1	38.4	58.4	39.5
in 50 days	70.1	33.7	71.1	35.1	73.7	51.0	66.7	54.6	61.5	40.8	61.6	41.7
in 76 days	73.3	36.6	73.7	37.6	78.4	54.2	71.5	57.1	67.2	45.0	66.6	45.1
in 97 days	73.8	37.8	74.7	38.9	79.3	55.2	73.1	58.2	68.9	46.5	68.2	46.7
in 118 days	74.7	39.4	75.3	40.5	80.8	57.3	75.1	59.7	70.3	47.5	69.4	47.6
End of Leach (154 days)	75.1	41.0	75.8	42.1	82.2	59.4	76.7	60.7	73.8 (181)	50.4	71.0	48.9
End of Rinse (159 days)	75.1	41.3	75.8	42.5	82.2	59.4	76.7	61.2	74.2 (191)	50.6	71.5	49.3
Extracted, oz/ton ore	0.0166	0.345	0.0147	0.400	0.0175	0.114	0.0191	0.120	0.1361	0.871	0.1281	0.863
Tail Screen, oz/ton	0.0055	0.490	0.0047	0.541	0.0038	0.078	0.0058	0.076	0.0473	0.852	0.0511	0.888
Calc'd. Head, oz/ton ore	0.0221	0.835	0.0194	0.941	0.0213	0.192	0.0249	0.196	0.1834	1.723	0.1792	1.751
Head Screen, oz/ton ore	0.0197	1.17	0.0216	0.84	0.0385	0.20	0.0289	0.25	0.1461	1.88	0.2731	1.67
BT (1/2") Recovery, %	N/A	N/A	50.9	38.8	N/A	N/A	79.5	55.2	N/A	N/A	69.6	40.9
NaCN Consumed, lb/ton ore	1.62		1.68		1.56		1.55		1.20		1.20	
Cement Added, lb/ton ore[1)]	12.0		12.0		12.0		12.0		12.0		12.0	
Final Leach pH	10.3		10.3		9.9		10.2		10.5		10.5	
Final Rinse pH	11.3		11.3		10.7		11.1		11.3		11.4	
Tons Sol Applied/ton ore[2)]	7.0		7.1		7.1		7.0		7.9		7.0	

1) Cement added during agglomeration, before leaching.
2) Tons leach solution applied/ton of ore leached - through end of leach cycle.

Figure 27. - Gold Leach Rate Profiles, Column Leach Tests, Comstock Lucerne Bulk Ore Samples, Varied Crush Sizes

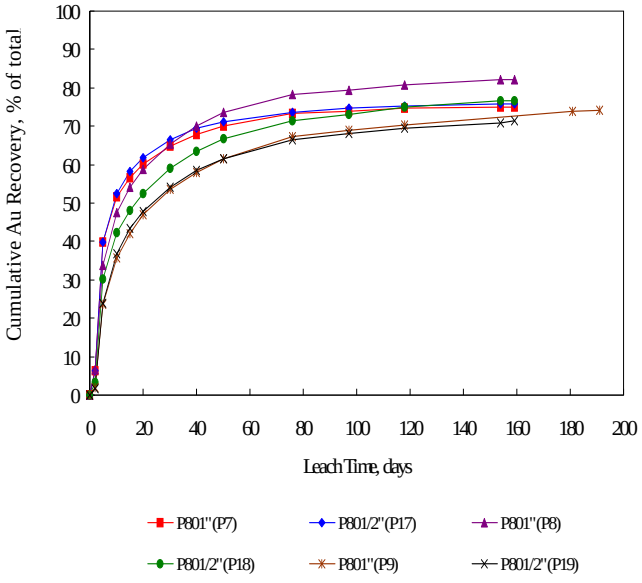
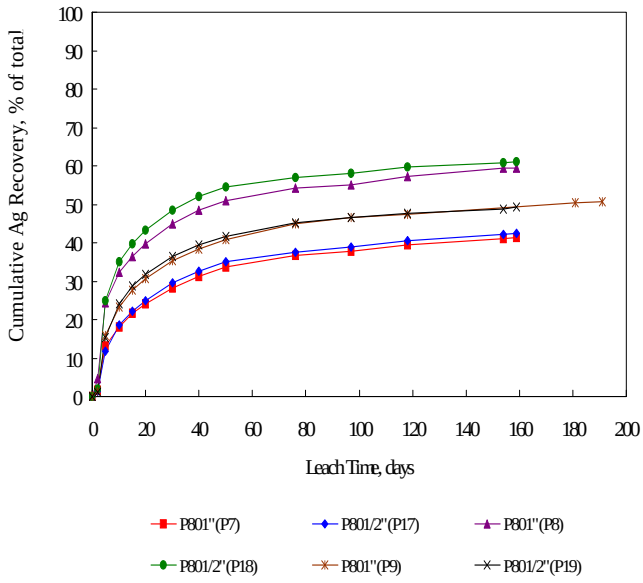


Figure 28. - Silver Leach Rate Profiles, Column Leach Tests, Comstock Lucerne Bulk Ore Samples, Varied Crush Sizes



CT results show that Lucerne bulk ore samples/composites were amenable to heap leach cyanidation and that PM recoveries and rates were not crush size dependant. Other results are summarized as follows:

- PM recovery rates were slower for Lucerne bulk samples than for Dayton and Hartford bulk samples. Extraction was, however, substantially complete in about 80 days. Additional PM recovery would be achieved with leach cycles longer than 154 or 181 days.
- CT gold recoveries were generally higher than BT recoveries for P_{80}1/2" feeds: for LM-LG (composited AA/QP/Mn rock type), +24.9%; for LM-006, 007 (LG-AA rock type), -2.8%; and for LM-010, 011 (HG-QP rock type), +1.9%.
- Other summary comments for Dayton samples apply to Lucerne samples.

Table 47. - Overall Metallurgical Results, Column Leach Tests, Comstock PC10-07, 08 Core Composite, Varied Crush Sizes

	Core Composite PC10-07, 08 (Core)			
Metallurgical Results	P_{80}1" (P10)		P_{80}1/2" (P20)	
Extraction: pct of total	Au	Ag	Au	Ag
1st Preg (Day 2)	1.8	1.0	2.4	1.1
in 5 days	7.3	3.9	9.4	4.5
in 10 days	12.9	7.1	15.7	8.4
in 15 days	17.0	10.0	19.9	11.8
in 20 days	21.4	13.0	24.3	15.4
in 30 days	27.6	18.6	30.5	21.8
in 40 days	32.4	22.9	35.2	27.2
in 50 days	35.6	26.0	38.5	31.1
in 76 days	41.5	32.0	43.8	37.8
in 97 days	43.9	34.8	45.9	40.7
in 118 days	46.1	37.0	47.7	42.9
End of Leach (154 days)	48.5	39.7	49.7	45.2
End of Rinse (159 days)	48.9	40.4	50.0	45.7
Extracted, oz/ton ore	0.0323	0.651	0.0331	0.637
Tail Screen, oz/ton	0.0337	0.959	0.0331	0.756
Calc'd., Head, oz/ton	0.0660	1.610	0.0662	1.393
Head Screen, oz/ton ore	0.0879	1.42	0.0692	1.62
BT (1/2") Recovery, %	N/A	N/A	48.4	42.1
NaCN Consumed, lb/ton ore	0.79		0.50	
Cement Added, lb/ton ore[1)]	12.0		12.0	
Final Leach pH	11.1		10.9	
Final Rinse pH	10.3		11.1	
Tons Sol Applied/ton ore[2)]	7.5		7.8	

1) Cement added during agglomeration, before leaching.
2) Tons leach solution applied/ton of ore leached - through end of leach cycle.

Figure 29. - Gold Leach Rate Profiles, Column Leach Tests, Comstock PC10-07, 08 Core Composite, Varied Crush Sizes

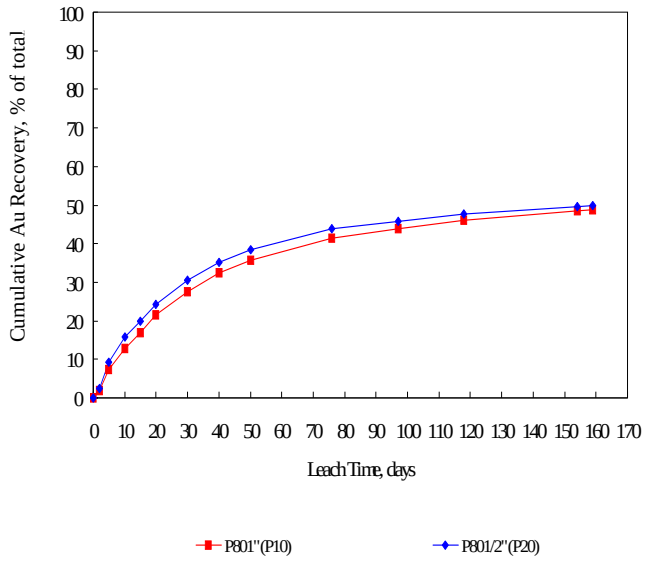
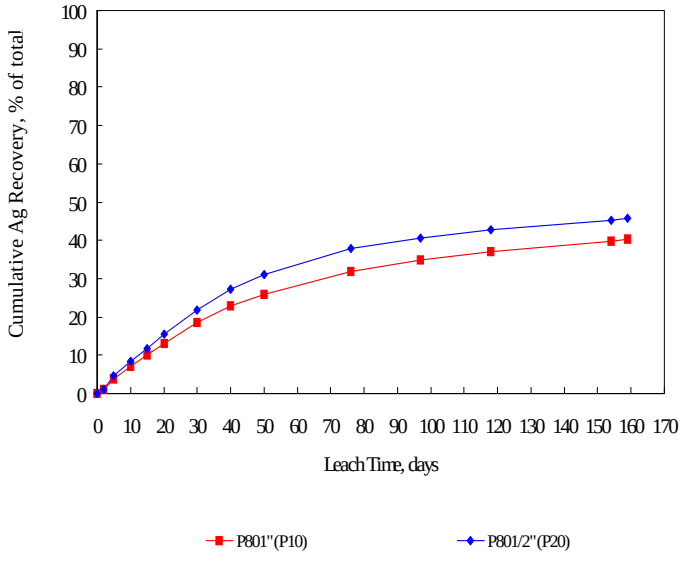


Figure 30. - Silver Leach Rate Profiles, Column Leach Tests, Comstock PC10-07, 08 Core Composite, Varied Crush Sizes



Overall results show that core composite PC10-07, 08, 51-93' was marginally amenable to heap leaching. Project geologists later described the composite as “highly siliceous” and not representative of significant mineable ore tonnage. Consequently, detailed results discussion would not be beneficial. PM recoveries and rates were not dependent on crush size.

- Au and Ag recoveries were about 50 and 40 percent, respectively.
- Recovery rates were slow.
- Tail grades were over 0.03 ozAu and ~ 0.8 ozAg/ton.

Summary results table, extracted value figures and daily column leach data spreadsheets for the 20 CT’s are provided in the Appendix to this report.

Head screen analyses were conducted on bulk ore sample (and 1 core comp) P_{80}1" and P_{80}1/2" feeds to determine weight and PM value distributions. Tail screen analyses were conducted on the P_{80}1" and P_{80}1/2" CT residues to establish unleached value distribution. Head and tail screen analysis results for each CT were used to calculate recovery by size fraction data.

Screen analysis procedures are summarized below.

- Head and tail screens were conducted on ~ 15 kg splits at each crush size.
- Screen splits were wet screened through the various size fractions.
- Each size fraction was dried and weighed.
- All size fractions coarser than 10 mesh were crushed to ~ 10 mesh before blending and splitting.
- All size fractions were submitted to AAL for Au and Ag assay.

Head and tail screen analysis results and recovery by size fraction data for all P_{80}1" and P_{80}1/2" crush sizes are provided in tables 48 through 107.

Table 48. - Head Screen Analysis Results, Comstock Bulk Ore Sample DA-001 (P1), P_{80}1" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton Au	Assays, oz/ton Ag	Distribution percent Au	Distribution percent Ag	Cum. percent Au	Cum. percent Ag
+1"	24.3	24.3	0.053	0.303	25.0	27.2	25.0	27.2
-1+1/2"	34.4	58.7	0.050	0.239	33.3	30.4	58.3	57.6
-1/2+1/4"	13.1	71.8	0.058	0.238	14.7	11.6	73.0	69.2
-1/4+10M	11.8	83.6	0.036	0.306	8.2	13.4	81.2	82.6
-10+35M	7.2	90.8	0.033	0.210	4.6	5.6	85.8	88.2
-35+65M	2.2	93.0	0.112	0.180	4.8	1.5	90.6	89.7
-65+100M	0.8	93.8	0.122	0.209	1.9	0.6	92.5	90.3
-100M	6.2	100.0	0.062	0.422	7.5	9.7	100.0	100.0
Composite	100.0		0.0516	0.270	100.0	100.0		

Table 49. - Tail Screen Analysis Results, Column Leached Residue, Comstock Bulk Ore Sample DA-001 (P1), P_{80}1" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton Au	Assays, oz/ton Ag	Distribution percent Au	Distribution percent Ag	Cum. percent Au	Cum. percent Ag
+1"	20.3	20.3	0.022	0.177	26.0	26.6	26.0	26.6
-1+1/2"	31.0	51.3	0.023	0.152	41.5	34.9	67.5	61.5
-1/2+1/4"	15.5	66.8	0.022	0.147	19.9	16.9	87.4	78.4
-1/4+10M	13.5	80.3	0.013	0.107	10.2	10.7	97.6	89.1
-10+35M	8.2	88.5	0.003	0.077	1.4	4.7	99.0	93.8
-35+65M	2.9	91.4	0.004	0.046	0.6	0.9	99.6	94.7
-65+100M	1.2	92.6	0.003	0.050	0.2	0.4	99.8	95.1
-100M	7.4	100.0	<0.001	0.089	0.2	4.9	100.0	100.0
Composite	100.0		0.0172	0.135	100.0	100.0		

Note: A value of 0.0005 ozAu/ton was used for all assays reported as <0.001 ozAu/ton.

Table 50. - Recovery By Size Fraction Data, Column Leach Test, Comstock Bulk Ore Sample DA-001 (P1), P_{80}1" Feed

Size Fraction	Weight, pct. Head	Weight, pct. Tail	Assays, oz/ton Au Head	Assays, oz/ton Au Tail	Assays, oz/ton Ag Head	Assays, oz/ton Ag Tail	Recovery, pct. Au	Recovery, pct. Ag
+1"	24.3	20.3	0.053	0.022	0.303	0.177	58.5	41.6
-1+1/2"	34.4	31.0	0.050	0.023	0.239	0.152	54.0	36.4
-1/2+1/4"	13.1	15.5	0.058	0.022	0.238	0.147	62.1	38.2
-1/4+10M	11.8	13.5	0.036	0.013	0.306	0.107	63.9	65.0
-10+35M	7.2	8.2	0.033	0.003	0.210	0.077	90.9	63.3
-35+65M	2.2	2.9	0.112	0.004	0.180	0.046	96.4	74.4
-65+100M	0.8	1.2	0.122	0.003	0.209	0.050	97.5	76.1
-100M	6.2	7.4	0.062	0.0005	0.422	0.089	99.2	78.9
Composite	100.0	100.0	0.0516	0.0172	0.270	0.135	66.7	50.0
					Column Recovery		55.3	42.6

Table 51. - Head Screen Analysis Results, Comstock Bulk Ore Sample DA-001 (P11), P_{80}1/2" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton Au	Assays, oz/ton Ag	Distribution percent Au	Distribution percent Ag	Cum. percent Au	Cum. percent Ag
+1/2"	22.9	22.9	0.029	0.240	18.2	25.8	18.2	25.8
-1/2+1/4"	32.7	55.6	0.031	0.190	27.8	29.1	46.0	54.9
-1/4+10M	20.0	75.6	0.036	0.197	19.7	18.5	65.7	73.4
-10+35M	11.2	86.8	0.020	0.112	6.1	5.8	71.8	79.2
-35+65M	3.1	89.9	0.062	0.169	5.2	2.4	77.0	81.6
-65+100M	1.4	91.3	0.065	0.218	2.5	1.4	79.5	83.0
-100M	8.7	100.0	0.086	0.417	20.5	17.0	100.0	100.0
Composite	100.0		0.0365	0.214	100.0	100.0		

Table 52. - Tail Screen Analysis Results, Column Leached Residue, Comstock Bulk Ore Sample DA-001 (P11), P_{80}1/2" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton Au	Assays, oz/ton Ag	Distribution percent Au	Distribution percent Ag	Cum. percent Au	Cum. percent Ag
+1/2"	19.9	19.9	0.016	0.174	26.4	18.9	26.4	18.9
-1/2+1/4"	31.5	51.4	0.017	0.332	44.4	57.2	70.8	76.1
-1/4+10M	21.5	72.9	0.013	0.111	23.2	13.1	94.0	89.2
-10+35M	12.0	84.9	0.004	0.072	4.0	4.7	98.0	93.9
-35+65M	3.8	88.7	0.004	0.041	1.3	0.9	99.3	94.8
-65+100M	1.5	90.2	0.003	0.041	0.3	0.3	99.6	95.1
-100M	9.8	100.0	<0.001	0.091	0.4	4.9	100.0	100.0
Composite	100.0		0.0120	0.183	100.0	100.0		

Note: A value of 0.0005 ozAu/ton was used for all assays reported as <0.001 ozAu/ton.

Table 53. - Recovery By Size Fraction Data, Column Leach Test, Comstock Bulk Ore Sample DA-001 (P11), P_{80}1/2" Feed

Size Fraction	Weight, pct. Head	Weight, pct. Tail	Assays, oz/ton Au Head	Assays, oz/ton Au Tail	Assays, oz/ton Ag Head	Assays, oz/ton Ag Tail	Recovery, pct. Au	Recovery, pct. Ag
+1/2"	22.9	19.9	0.029	0.016	0.240	0.174	44.8	27.5
-1/2+1/4"	32.7	31.5	0.031	0.017	0.190	0.332	45.2	-74.7
-1/4+10M	20.0	21.5	0.036	0.013	0.197	0.111	63.9	43.6
-10+35M	11.2	12.0	0.020	0.004	0.112	0.072	80.0	35.7
-35+65M	3.1	3.8	0.062	0.004	0.169	0.041	93.5	75.7
-65+100M	1.4	1.5	0.065	0.003	0.218	0.041	95.4	81.2
-100M	8.7	9.8	0.086	0.0005	0.417	0.091	94.2	78.2
Composite	100.0	100.0	0.0365	0.0120	0.214	0.183	67.1	14.5
					Column Recovery		65.4	37.1

Table 54. - Head Screen Analysis Results, Comstock Bulk Ore Sample DP-004 (P2), P_{80}1" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton Au	Assays, oz/ton Ag	Distribution percent Au	Distribution percent Ag	Cum. percent Au	Cum. percent Ag
+1"	15.2	15.2	0.010	1.099	2.6	20.8	2.6	20.8
-1+1/2"	15.5	30.7	0.017	0.945	4.5	18.2	7.1	39.0
-1/2+1/4"	13.9	44.6	0.028	1.128	6.6	19.5	13.7	58.5
-1/4+10M	17.5	62.1	0.067	0.717	19.9	15.6	33.6	74.1
-10+35M	11.9	74.0	0.088	0.516	17.8	7.7	51.4	81.8
-35+65M	5.0	79.0	0.110	0.399	9.3	2.5	60.7	84.3
-65+100M	5.3	84.3	0.165	0.321	14.8	2.1	75.5	86.4
-100M	15.7	100.0	0.092	0.693	24.5	13.6	100.0	100.0
Composite	100.0		0.0589	0.803	100.0	100.0		

Table 55. - Tail Screen Analysis Results, Column Leached Residue, Comstock Bulk Ore Sample DA-004 (P2), P_{80}1" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton Au	Assays, oz/ton Ag	Distribution percent Au	Distribution percent Ag	Cum. percent Au	Cum. percent Ag
+1"	18.1	18.1	0.0015	0.610	8.0	26.0	8.0	26.0
-1+1/2"	13.3	31.4	0.0022	0.685	8.7	21.4	16.7	47.4
-1/2+1/4"	13.5	44.9	0.0070	0.552	28.0	17.5	44.7	64.9
-1/4+10M	17.8	62.7	0.0040	0.486	21.2	20.4	65.9	85.3
-10+35M	12.7	75.4	0.0065	0.181	24.5	5.4	90.4	90.7
-35+65M	4.6	80.0	0.0025	0.172	3.3	1.9	93.7	92.6
-65+100M	1.7	81.7	0.0020	0.154	0.9	0.6	94.6	93.2
-100M	18.3	100.0	0.0010	0.159	5.4	6.8	100.0	100.0
Composite	100.0		0.0033	0.425	100.0	100.0		

Note: A value of 0.0005 ozAu/ton was used for all assays reported as <0.001 ozAu/ton.

Table 56. - Recovery By Size Fraction Data, Column Leach Test, Comstock Bulk Ore Sample DA-004 (P2), P_{80}1" Feed

Size Fraction	Weight, pct. Head	Weight, pct. Tail	Assays, oz/ton Au Head	Assays, oz/ton Au Tail	Assays, oz/ton Ag Head	Assays, oz/ton Ag Tail	Recovery, pct. Au	Recovery, pct. Ag
+1"	15.2	18.1	0.010	0.0015	1.099	0.610	85.0	44.5
-1+1/2"	15.5	13.3	0.017	0.0022	0.945	0.685	87.0	27.5
-1/2+1/4"	13.9	13.5	0.028	0.0070	1.128	0.552	75.0	51.1
-1/4+10M	17.5	17.8	0.067	0.0040	0.717	0.486	94.0	32.2
-10+35M	11.9	12.7	0.088	0.0065	0.516	0.181	92.6	64.9
-35+65M	5.0	4.6	0.110	0.0025	0.399	0.172	97.7	56.9
-65+100M	5.3	1.7	0.165	0.0020	0.321	0.154	98.8	52.0
-100M	15.7	18.3	0.092	0.0010	0.693	0.159	98.9	77.1
Composite	100.0	100.0	0.0589	0.0033	0.803	0.425	94.4	47.1
					Column Recovery		93.8	47.3

Table 57. - Head Screen Analysis Results, Comstock Bulk Ore Sample DP-004 (P12), P_{80}1/2" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton		Distribution percent		Cum. percent	
			Au	Ag	Au	Ag	Au	Ag
+1/2"	18.7	18.7	0.015	1.029	4.7	24.8	4.7	24.8
-1/2+1/4"	16.2	34.9	0.026	0.980	7.0	20.5	11.7	45.3
-1/4+10M	21.6	56.5	0.062	0.700	22.3	19.5	34.0	64.8
-10+35M	16.7	73.2	0.075	0.472	20.8	10.2	54.8	75.0
-35+65M	5.5	78.7	0.122	0.577	11.2	4.1	66.0	79.1
-65+100M	2.2	80.9	0.201	0.574	7.3	1.6	73.3	80.7
-100M	19.1	100.0	0.084	0.784	26.7	19.3	100.0	100.0
Composite	100.0		0.0601	0.775	100.0	100.0		

Table 58. - Tail Screen Analysis Results, Column Leached Residue, Comstock Bulk Ore Sample DA-004 (P12), P_{80}1/2" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton		Distribution percent		Cum. percent	
			Au	Ag	Au	Ag	Au	Ag
+1/2"	19.7	19.7	0.003	0.615	19.0	32.6	19.0	32.6
-1/2+1/4"	22.8	42.5	0.004	0.472	29.4	29.0	48.4	61.6
-1/4+10M	20.4	62.9	0.003	0.396	19.7	21.8	68.1	83.4
-10+35M	12.8	75.7	0.006	0.171	24.8	5.9	92.9	89.3
-35+65M	4.9	80.6	0.002	0.152	3.2	2.0	96.1	91.3
-65+100M	1.6	82.2	0.002	0.146	1.0	0.6	97.1	91.9
-100M	17.8	100.0	<0.001	0.168	2.9	8.1	100.0	100.0
Composite	100.0		0.0031	0.371	100.0	100.0		

Note: A value of 0.0005 ozAu/ton was used for all assays reported as <0.001 ozAu/ton.

Table 59. - Recovery By Size Fraction Data, Column Leach Test, Comstock Bulk Ore Sample DA-004 (P12), P_{80}1/2" Feed

Size Fraction	Weight, pct.		Assays, oz/ton Au		Ag		Recovery, pct.	
	Head	Tail	Head	Tail	Head	Tail	Au	Ag
+1/2"	18.7	19.7	0.015	0.003	1.029	0.615	80.0	40.2
-1/2+1/4"	16.2	22.8	0.026	0.004	0.980	0.472	84.6	51.8
-1/4+10M	21.6	20.4	0.062	0.003	0.700	0.396	95.2	43.4
-10+35M	16.7	12.8	0.075	0.006	0.472	0.171	92.0	63.8
-35+65M	5.5	4.9	0.122	0.002	0.577	0.152	98.4	73.6
-65+100M	2.2	1.6	0.201	0.002	0.574	0.146	99.0	74.6
-100M	19.1	17.8	0.084	0.0005	0.784	0.168	99.4	78.6
Composite	100.0	100.0	0.0601	0.0031	0.775	0.371	94.8	52.1
					Column Recovery		94.1	52.5

Table 60. - Head Screen Analysis Results, Comstock Bulk Ore Sample DP-005 (P3), P_{80}1" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton Au	Assays, oz/ton Ag	Distribution percent Au	Distribution percent Ag	Cum. percent Au	Cum. percent Ag
+1"	25.4	25.4	0.132	1.082	27.6	32.1	27.6	32.1
-1+1/2"	19.2	44.6	0.069	0.901	10.9	20.2	38.5	52.3
-1/2+1/4"	13.8	58.4	0.068	0.921	7.7	14.9	46.2	67.2
-1/4+10M	15.1	73.5	0.069	0.694	8.6	12.2	54.8	79.4
-10+35M	9.7	83.2	0.118	0.405	9.4	4.6	64.2	84.0
-35+65M	3.5	86.7	0.328	0.533	9.4	2.2	73.6	86.2
-65+100M	1.4	88.1	0.440	0.434	5.1	0.7	78.7	86.9
-100M	11.9	100.0	0.218	0.944	21.3	13.1	100.0	100.0
Composite	100.0		0.1216	0.856	100.0	100.0		

Table 61. - Tail Screen Analysis Results, Column Leached Residue, Comstock Bulk Ore Sample DA-005 (P3), P_{80}1" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton Au	Assays, oz/ton Ag	Distribution percent Au	Distribution percent Ag	Cum. percent Au	Cum. percent Ag
+1"	20.7	20.7	0.0930	0.612	58.2	27.0	58.2	27.0
-1+1/2"	17.3	38.0	0.0182	0.636	9.5	23.4	67.7	50.4
-1/2+1/4"	17.4	55.4	0.0271	0.525	14.3	19.4	82.0	69.8
-1/4+10M	16.1	71.5	0.0177	0.408	8.6	14.0	90.6	83.8
-10+35M	9.6	81.1	0.0184	0.292	5.3	6.0	95.9	89.8
-35+65M	4.3	85.4	0.0197	0.233	2.6	2.1	98.5	91.9
-65+100M	1.5	86.9	0.0096	0.233	0.4	0.8	98.9	92.7
-100M	13.1	100.0	0.0027	0.262	1.1	7.3	100.0	100.0
Composite	100.0		0.0331	0.469	100.0	100.0		

Note: A value of 0.0005 ozAu/ton was used for all assays reported as <0.001 ozAu/ton.

Table 62. - Recovery By Size Fraction Data, Column Leach Test, Comstock Bulk Ore Sample DA-005 (P3), P_{80}1" Feed

Size Fraction	Weight, pct. Head	Weight, pct. Tail	Assays, oz/ton Au Head	Assays, oz/ton Au Tail	Assays, oz/ton Ag Head	Assays, oz/ton Ag Tail	Recovery, pct. Au	Recovery, pct. Ag
+1"	25.4	20.7	0.132	0.0930	1.082	0.612	29.5	43.4
-1+1/2"	19.2	17.3	0.069	0.0182	0.901	0.636	73.6	29.4
-1/2+1/4"	13.8	17.4	0.068	0.0271	0.921	0.525	60.1	43.0
-1/4+10M	15.1	16.1	0.069	0.0177	0.694	0.408	74.3	41.2
-10+35M	9.7	9.6	0.118	0.0184	0.405	0.292	84.4	27.9
-35+65M	3.5	4.3	0.328	0.0197	0.533	0.233	94.0	56.3
-65+100M	1.4	1.5	0.440	0.0096	0.434	0.233	97.8	46.3
-100M	11.9	13.1	0.218	0.0027	0.944	0.262	98.8	72.2
Composite	100.0	100.0	0.1216	0.0331	0.856	0.469	72.8	45.2
					Column Recovery		75.4	42.1

Table 63. - Head Screen Analysis Results, Comstock Bulk Ore Sample DP-005 (P13), P_{80}1/2" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton		Distribution percent		Cum. percent	
			Au	Ag	Au	Ag	Au	Ag
+1/2"	16.4	16.4	0.072	1.076	10.5	23.1	10.5	23.1
-1/2+1/4"	30.5	46.9	0.069	0.819	18.7	32.6	29.2	55.7
-1/4+10M	22.4	69.3	0.060	0.697	11.9	20.4	41.1	76.1
-10+35M	12.4	81.7	0.172	0.475	18.9	7.7	60.0	83.8
-35+65M	3.8	85.5	0.306	0.522	10.3	2.6	70.3	86.4
-65+100M	1.5	87.0	0.408	0.449	5.5	0.9	75.8	87.3
-100M	13.0	100.0	0.210	0.746	24.2	12.7	100.0	100.0
Composite	100.0		0.1127	0.765	100.0	100.0		

Table 64. - Tail Screen Analysis Results, Column Leached Residue, Comstock Bulk Ore Sample DA-005 (P13), P_{80}1/2" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton		Distribution percent		Cum. percent	
			Au	Ag	Au	Ag	Au	Ag
+1/2"	15.3	15.3	0.022	0.574	16.8	25.3	16.8	25.3
-1/2+1/4"	28.4	43.7	0.029	0.423	41.1	34.6	57.9	59.9
-1/4+10M	22.3	66.0	0.019	0.324	21.2	20.8	79.1	80.7
-10+35M	12.5	78.5	0.022	0.252	13.7	9.1	92.8	89.8
-35+65M	4.6	83.1	0.020	0.153	4.6	2.0	97.4	91.8
-65+100M	1.7	84.8	0.013	0.124	1.1	0.6	98.5	92.4
-100M	15.2	100.0	0.002	0.175	1.5	7.6	100.0	100.0
Composite	100.0		0.0200	0.347	100.0	100.0		

Note: A value of 0.0005 ozAu/ton was used for all assays reported as <0.001 ozAu/ton.

Table 65. - Recovery By Size Fraction Data, Column Leach Test, Comstock Bulk Ore Sample DA-005 (P13), P_{80}1/2" Feed

Size Fraction	Weight, pct.		Assays, oz/ton Au		Ag		Recovery, pct.	
	Head	Tail	Head	Tail	Head	Tail	Au	Ag
+1/2"	16.4	15.3	0.072	0.022	1.076	0.574	69.4	46.6
-1/2+1/4"	30.5	28.4	0.069	0.029	0.819	0.423	58.0	48.4
-1/4+10M	22.4	22.3	0.060	0.019	0.697	0.324	68.3	53.5
-10+35M	12.4	12.5	0.172	0.022	0.475	0.252	87.2	46.9
-35+65M	3.8	4.6	0.306	0.020	0.522	0.153	93.5	70.7
-65+100M	1.5	1.7	0.408	0.013	0.449	0.124	96.8	72.4
-100M	13.0	15.2	0.210	0.002	0.746	0.175	99.0	76.5
Composite	100.0	100.0	0.1127	0.0200	0.765	0.347	82.2	54.6
					Column Recovery		83.7	50.3

Table 66. - Head Screen Analysis Results, Comstock Bulk Ore Sample HM-MG (P4), P_{80}1" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton Au	Assays, oz/ton Ag	Distribution percent Au	Distribution percent Ag	Cum. percent Au	Cum. percent Ag
+1"	23.5	23.5	0.034	0.402	24.4	21.3	24.4	21.3
-1+1/2"	19.6	43.1	0.024	0.452	14.3	20.0	38.7	41.3
-1/2+1/4"	16.3	59.4	0.015	0.493	7.4	18.1	46.1	59.4
-1/4+10M	18.7	78.1	0.029	0.490	16.5	20.6	62.6	80.0
-10+35M	9.0	87.1	0.049	0.481	13.5	9.8	76.1	89.8
-35+65M	2.3	89.4	0.089	0.536	6.3	2.8	82.4	92.6
-65+100M	1.0	90.4	0.146	0.461	4.4	1.0	86.8	93.6
-100M	9.6	100.0	0.045	0.294	13.2	6.4	100.0	100.0
Composite	100.0		0.0328	0.444	100.0	100.0		

Table 67. - Tail Screen Analysis Results, Column Leached Residue, Comstock Bulk Ore Sample HM-MG (P4), P_{80}1" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton Au	Assays, oz/ton Ag	Distribution percent Au	Distribution percent Ag	Cum. percent Au	Cum. percent Ag
+1"	16.5	16.5	0.009	0.449	18.1	30.4	18.1	30.4
-1+1/2"	21.0	37.5	0.012	0.286	30.9	24.7	49.0	55.1
-1/2+1/4"	17.9	55.4	0.008	0.255	17.5	18.7	66.5	73.8
-1/4+10M	20.3	75.7	0.010	0.199	24.9	16.6	91.4	90.4
-10+35M	8.4	84.1	0.005	0.180	5.2	6.2	96.6	96.6
-35+65M	2.4	86.5	0.007	0.128	2.1	1.3	98.7	97.9
-65+100M	0.9	87.4	0.006	0.109	0.6	0.4	99.3	98.3
-100M	12.6	100.0	<0.001	0.034	0.9	1.7	100.0	100.0
Composite	100.0		0.0082	0.244	100.0	100.0		

Note: A value of 0.0005 ozAu/ton was used for all assays reported as <0.001 ozAu/ton.

Table 68. - Recovery By Size Fraction Data, Column Leach Test, Comstock Bulk Ore Sample HM-MG (P4), P_{80}1" Feed

Size Fraction	Weight, pct. Head	Weight, pct. Tail	Assays, oz/ton Au Head	Assays, oz/ton Au Tail	Assays, oz/ton Ag Head	Assays, oz/ton Ag Tail	Recovery, pct. Au	Recovery, pct. Ag
+1"	23.5	16.5	0.034	0.009	0.402	0.449	73.5	-11.7
-1+1/2"	19.6	21.0	0.024	0.012	0.452	0.286	50.0	36.7
-1/2+1/4"	16.3	17.9	0.015	0.008	0.493	0.255	46.7	48.3
-1/4+10M	18.7	20.3	0.029	0.010	0.490	0.199	65.5	59.4
-10+35M	9.0	8.4	0.049	0.005	0.481	0.180	89.8	62.6
-35+65M	2.3	2.4	0.089	0.007	0.536	0.128	92.1	76.1
-65+100M	1.0	0.9	0.146	0.006	0.461	0.109	95.9	76.4
-100M	9.6	12.6	0.045	<0.001	0.294	0.034	98.9	88.1
Composite	100.0	100.0	0.0328	0.0082	0.444	0.244	75.0	45.0
					Column Recovery		72.1	43.0

Table 69. - Head Screen Analysis Results, Comstock Bulk Ore Sample HM-MG (P14), P_{80}1/2" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton Au	Assays, oz/ton Ag	Distribution percent Au	Distribution percent Ag	Cum. percent Au	Cum. percent Ag
+1/2"	19.2	19.2	0.035	0.612	19.2	26.8	19.2	26.8
-1/2+1/4"	28.6	47.8	0.016	0.420	13.1	27.3	32.3	54.1
-1/4+10M	23.7	71.5	0.025	0.391	17.0	21.1	49.3	75.2
-10+35M	11.9	83.4	0.061	0.455	20.7	12.3	70.0	87.5
-35+65M	3.2	86.6	0.178	0.493	16.3	3.6	86.3	91.1
-65+100M	1.3	87.9	0.099	0.557	3.7	1.6	90.0	92.7
-100M	12.1	100.0	0.029	0.264	10.0	7.3	100.0	100.0
Composite	100.0		0.0350	0.439	100.0	100.0		

Table 70. - Tail Screen Analysis Results, Column Leached Residue, Comstock Bulk Ore Sample HM-MG (P14), P_{80}1/2" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton Au	Assays, oz/ton Ag	Distribution percent Au	Distribution percent Ag	Cum. percent Au	Cum. percent Ag
+1/2"	13.8	13.8	0.018	0.478	19.1	25.0	19.1	25.0
-1/2+1/4"	30.1	43.9	0.023	0.373	53.1	42.6	72.2	67.6
-1/4+10M	27.4	71.3	0.010	0.196	21.0	20.4	93.2	88.0
-10+35M	10.9	82.2	0.005	0.183	4.1	7.6	97.3	95.6
-35+65M	2.5	84.7	0.007	0.164	1.4	1.6	98.7	97.2
-65+100M	1.1	85.8	0.002	0.127	0.2	0.5	98.9	97.7
-100M	14.2	100.0	0.001	0.043	1.1	2.3	100.0	100.0
Composite	100.0		0.0130	0.263	100.0	100.0		

Note: A value of 0.0005 ozAu/ton was used for all assays reported as <0.001 ozAu/ton.

Table 71. - Recovery By Size Fraction Data, Column Leach Test, Comstock Bulk Ore Sample HM-MG (P14), P_{80}1/2" Feed

Size Fraction	Weight, pct. Head	Weight, pct. Tail	Assays, oz/ton Au Head	Assays, oz/ton Au Tail	Assays, oz/ton Ag Head	Assays, oz/ton Ag Tail	Recovery, pct. Au	Recovery, pct. Ag
+1/2"	19.2	13.8	0.035	0.018	0.612	0.478	48.6	21.9
-1/2+1/4"	28.6	30.1	0.016	0.023	0.420	0.373	-43.8	11.2
-1/4+10M	23.7	27.4	0.025	0.010	0.391	0.196	60.0	49.9
-10+35M	11.9	10.9	0.061	0.005	0.455	0.183	91.8	59.8
-35+65M	3.2	2.5	0.178	0.007	0.493	0.164	96.1	66.7
-65+100M	1.3	1.1	0.099	0.002	0.557	0.127	98.0	77.2
-100M	12.1	14.2	0.029	0.001	0.264	0.043	96.6	83.7
Composite	100.0	100.0	0.0350	0.0130	0.439	0.263	62.9	40.1
					Column Recovery		62.6	41.0

Table 72. - Head Screen Analysis Results, Comstock Bulk Ore Sample HM-010 (P5), P_{80}1" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton Au	Assays, oz/ton Ag	Distribution percent Au	Distribution percent Ag	Cum. percent Au	Cum. percent Ag
+1"	16.8	16.8	0.147	1.732	17.7	24.5	17.7	24.5
-1+1/2"	18.5	35.3	0.165	1.196	21.8	18.7	39.5	43.2
-1/2+1/4"	13.1	48.4	0.177	1.058	16.6	11.7	56.1	54.9
-1/4+10M	16.4	64.8	0.197	0.980	23.1	13.6	79.2	68.5
-10+35M	11.3	76.1	0.126	0.761	10.2	7.2	89.4	75.7
-35+65M	3.9	80.0	0.088	0.548	2.5	1.8	91.9	77.5
-65+100M	1.4	81.4	0.124	0.566	1.2	0.7	93.1	78.2
-100M	18.6	100.0	0.052	1.388	6.9	21.8	100.0	100.0
Composite	100.0		0.1398	1.185	100.0	100.0		

Table 73. - Tail Screen Analysis Results, Column Leached Residue, Comstock Bulk Ore Sample HM-010 (P5), P_{80}1" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton Au	Assays, oz/ton Ag	Distribution percent Au	Distribution percent Ag	Cum. percent Au	Cum. percent Ag
+1"	16.8	16.8	0.1032	1.021	36.2	25.2	36.2	25.2
-1+1/2"	20.1	36.9	0.0584	0.889	24.5	26.3	60.7	51.5
-1/2+1/4"	13.9	50.8	0.0729	0.787	21.1	16.1	81.8	67.6
-1/4+10M	15.2	66.0	0.0449	0.612	14.2	13.7	96.0	81.3
-10+35M	10.1	76.1	0.0122	0.467	2.6	6.9	98.6	88.2
-35+65M	3.8	79.9	0.0083	0.408	0.6	2.3	99.2	90.5
-65+100M	1.0	80.9	0.0090	0.350	0.2	0.5	99.4	91.0
-100M	19.1	100.0	0.0014	0.321	0.6	9.0	100.0	100.0
Composite	100.0		0.0479	0.680	100.0	100.0		

Note: A value of 0.0005 ozAu/ton was used for all assays reported as <0.001 ozAu/ton.

Table 74. - Recovery By Size Fraction Data, Column Leach Test, Comstock Bulk Ore Sample HM-010 (P5), P_{80}1" Feed

Size Fraction	Weight, pct. Head	Weight, pct. Tail	Assays, oz/ton Au Head	Assays, oz/ton Au Tail	Assays, oz/ton Ag Head	Assays, oz/ton Ag Tail	Recovery, pct. Au	Recovery, pct. Ag
+1"	16.8	16.8	0.147	0.1032	1.732	1.021	29.8	41.0
-1+1/2"	18.5	20.1	0.165	0.0584	1.196	0.889	64.6	25.7
-1/2+1/4"	13.1	13.9	0.177	0.0729	1.058	0.787	58.8	25.6
-1/4+10M	16.4	15.2	0.197	0.0449	0.980	0.612	77.2	37.6
-10+35M	11.3	10.1	0.126	0.0122	0.761	0.467	90.3	38.6
-35+65M	3.9	3.8	0.088	0.0083	0.548	0.408	90.6	25.5
-65+100M	1.4	1.0	0.124	0.0090	0.566	0.350	92.7	38.2
-100M	18.6	19.1	0.052	0.0014	1.388	0.321	97.3	76.9
Composite	100.0	100.0	0.1398	0.0479	1.185	0.680	65.7	42.6
					Column Recovery		64.3	46.2

Table 75. - Head Screen Analysis Results, Comstock Bulk Ore Sample HM-010 (P15), P_{80}1/2" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton		Distribution percent		Cum. percent	
			Au	Ag	Au	Ag	Au	Ag
+1/2"	18.6	18.6	0.262	1.391	31.8	23.8	31.8	23.8
-1/2+1/4"	25.7	44.3	0.186	1.059	31.2	25.0	63.0	48.8
-1/4+10M	19.9	64.2	0.150	0.898	19.5	16.4	82.5	65.2
-10+35M	11.9	76.1	0.131	0.671	10.2	7.3	92.7	72.5
-35+65M	4.1	80.2	0.093	0.568	2.5	2.1	95.2	74.6
-65+100M	1.1	81.3	0.101	0.676	0.7	0.7	95.9	75.3
-100M	18.7	100.0	0.033	1.437	4.1	24.7	100.0	100.0
Composite	100.0		0.1531	1.089	100.0	100.0		

Table 76. - Tail Screen Analysis Results, Column Leached Residue, Comstock Bulk Ore Sample HM-010 (P15), P_{80}1/2" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton		Distribution percent		Cum. percent	
			Au	Ag	Au	Ag	Au	Ag
+1/2"	24.7	24.7	0.140	0.755	52.8	41.7	52.8	41.7
-1/2+1/4"	24.7	49.4	0.077	0.554	29.0	30.6	81.8	72.3
-1/4+10M	18.9	68.3	0.053	0.318	15.3	13.4	97.1	85.7
-10+35M	10.9	79.2	0.013	0.233	2.2	5.7	99.3	91.4
-35+65M	2.8	82.0	0.005	0.179	0.2	1.1	99.5	92.5
-65+100M	2.3	84.3	0.008	0.174	0.3	0.9	99.8	93.4
-100M	15.7	100.0	0.001	0.189	0.2	6.6	100.0	100.0
Composite	100.0		0.0655	0.448	100.0	100.0		

Note: A value of 0.0005 ozAu/ton was used for all assays reported as <0.001 ozAu/ton.

Table 77. - Recovery By Size Fraction Data, Column Leach Test, Comstock Bulk Ore Sample HM-010 (P15), P_{80}1/2" Feed

Size Fraction	Weight, pct.		Assays, oz/ton Au		Ag		Recovery, pct.	
	Head	Tail	Head	Tail	Head	Tail	Au	Ag
+1/2"	18.6	24.7	0.262	0.140	1.391	0.755	46.6	45.7
-1/2+1/4"	25.7	24.7	0.186	0.077	1.059	0.554	58.6	47.7
-1/4+10M	19.9	18.9	0.150	0.053	0.898	0.318	64.7	64.6
-10+35M	11.9	10.9	0.131	0.013	0.671	0.233	90.1	65.3
-35+65M	4.1	2.8	0.093	0.005	0.568	0.179	94.6	68.5
-65+100M	1.1	2.3	0.101	0.008	0.676	0.174	92.1	74.3
-100M	18.7	15.7	0.033	0.001	1.437	0.189	97.0	86.8
Composite	100.0	100.0	0.1531	0.0655	1.089	0.448	57.2	58.9
					Column Recovery		57.9	55.1

Table 78. - Head Screen Analysis Results, Comstock Bulk Ore Sample HM-011 (P6), P_{80}1" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton Au	Assays, oz/ton Ag	Distribution percent Au	Distribution percent Ag	Cum. percent Au	Cum. percent Ag
+1"	19.4	19.4	0.017	0.566	22.0	15.6	22.0	15.6
-1+1/2"	29.3	48.7	0.012	0.455	23.5	18.9	45.5	34.5
-1/2+1/4"	13.4	62.1	0.013	0.402	11.6	7.7	57.1	42.2
-1/4+10M	10.7	72.8	0.017	0.402	12.2	6.1	69.3	48.3
-10+35M	7.7	80.5	0.019	0.423	9.7	4.6	79.0	52.9
-35+65M	3.5	84.0	0.013	0.432	3.1	2.2	82.1	55.1
-65+100M	1.4	85.4	0.014	0.516	1.3	1.0	83.4	56.1
-100M	14.6	100.0	0.017	2.119	16.6	43.9	100.0	100.0
Composite	100.0		0.0150	0.704	100.0	100.0		

Table 79. - Tail Screen Analysis Results, Column Leached Residue, Comstock Bulk Ore Sample HM-011 (P6), P_{80}1" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton Au	Assays, oz/ton Ag	Distribution percent Au	Distribution percent Ag	Cum. percent Au	Cum. percent Ag
+1"	22.5	22.5	0.005	0.251	32.4	24.7	32.4	24.7
-1+1/2"	28.2	50.7	0.005	0.219	40.9	27.1	73.3	51.8
-1/2+1/4"	12.7	63.4	0.003	0.272	11.0	15.1	84.3	66.9
-1/4+10M	9.8	73.2	0.002	0.157	5.8	6.7	90.1	73.6
-10+35M	6.8	80.0	0.002	0.155	3.8	4.6	93.9	78.2
-35+65M	3.2	83.2	0.003	0.142	2.9	2.0	96.8	80.2
-65+100M	1.5	84.7	0.002	0.113	0.9	0.7	97.7	80.9
-100M	15.3	100.0	<0.001	0.285	2.3	19.1	100.0	100.0
Composite	100.0		0.0034	0.228	100.0	100.0		

Note: A value of 0.0005 ozAu/ton was used for all assays reported as <0.001 ozAu/ton.

Table 80. - Recovery By Size Fraction Data, Column Leach Test, Comstock Bulk Ore Sample HM-011 (P6), P_{80}1" Feed

Size Fraction	Weight, pct. Head	Weight, pct. Tail	Assays, oz/ton Au Head	Assays, oz/ton Au Tail	Assays, oz/ton Ag Head	Assays, oz/ton Ag Tail	Recovery, pct. Au	Recovery, pct. Ag
+1"	19.4	22.5	0.017	0.005	0.566	0.251	70.6	55.6
-1+1/2"	29.3	28.2	0.012	0.005	0.455	0.219	58.3	51.9
-1/2+1/4"	13.4	12.7	0.013	0.003	0.402	0.272	76.9	32.3
-1/4+10M	10.7	9.8	0.017	0.002	0.402	0.157	88.2	60.9
-10+35M	7.7	6.8	0.019	0.002	0.423	0.155	89.5	63.4
-35+65M	3.5	3.2	0.013	0.003	0.432	0.142	76.9	67.1
-65+100M	1.4	1.5	0.014	0.002	0.516	0.113	85.7	78.1
-100M	14.6	15.3	0.017	0.0005	2.119	0.285	97.1	86.5
Composite	100.0	100.0	0.0150	0.0034	0.704	0.228	77.3	67.6
					Column Recovery		79.6	65.6

Table 81. - Head Screen Analysis Results, Comstock Bulk Ore Sample HM-011 (P16), P_{80}1/2" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton		Distribution percent		Cum. percent	
			Au	Ag	Au	Ag	Au	Ag
+1/2"	18.8	18.8	0.020	0.493	21.8	13.4	21.8	13.4
-1/2+1/4"	29.9	48.7	0.018	0.411	31.1	17.7	52.9	31.1
-1/4+10M	19.2	67.9	0.017	0.376	18.9	10.4	71.8	41.5
-10+35M	9.9	77.8	0.014	0.525	8.0	7.5	79.8	49.0
-35+65M	4.3	82.1	0.011	0.347	2.7	2.1	82.5	51.1
-65+100M	1.7	83.8	0.016	0.496	1.6	1.2	84.1	52.3
-100M	16.2	100.0	0.017	2.041	15.9	47.7	100.0	100.0
Composite	100.0		0.0173	0.694	100.0	100.0		

Table 82. - Tail Screen Analysis Results, Column Leached Residue, Comstock Bulk Ore Sample HM-011 (P16), P_{80}1/2" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton		Distribution percent		Cum. percent	
			Au	Ag	Au	Ag	Au	Ag
+1/2"	15.8	15.8	0.003	0.182	17.5	14.6	17.5	14.6
-1/2+1/4"	28.0	43.8	0.005	0.201	52.0	28.7	69.5	43.3
-1/4+10M	19.8	63.6	0.002	0.160	14.9	16.1	84.4	59.4
-10+35M	10.2	73.8	0.002	0.126	7.4	6.5	91.8	65.9
-35+65M	5.6	79.4	0.002	0.136	4.1	3.9	95.9	69.8
-65+100M	1.8	81.2	0.001	0.114	0.7	1.0	96.6	70.8
-100M	18.8	100.0	<0.001	0.305	3.4	29.2	100.0	100.0
Composite	100.0		0.0027	0.196	100.0	100.0		

Note: A value of 0.0005 ozAu/ton was used for all assays reported as <0.001 ozAu/ton.

Table 83. - Recovery By Size Fraction Data, Column Leach Test, Comstock Bulk Ore Sample HM-011 (P16), P_{80}1/2" Feed

Size Fraction	Weight, pct.		Assays, oz/ton Au		Ag		Recovery, pct.	
	Head	Tail	Head	Tail	Head	Tail	Au	Ag
+1/2"	18.8	15.8	0.020	0.003	0.493	0.182	85.0	63.1
-1/2+1/4"	29.9	28.0	0.018	0.005	0.411	0.201	72.2	51.1
-1/4+10M	19.2	19.8	0.017	0.002	0.376	0.160	88.2	57.4
-10+35M	9.9	10.2	0.014	0.002	0.525	0.126	85.7	76.0
-35+65M	4.3	5.6	0.011	0.002	0.347	0.136	81.8	60.8
-65+100M	1.7	1.8	0.016	0.001	0.496	0.114	93.8	77.0
-100M	16.2	18.8	0.017	0.0005	2.041	0.305	97.0	85.1
Composite	100.0	100.0	0.0173	0.0027	0.694	0.196	84.4	71.8
					Column Recovery		82.8	69.7

Table 84. - Head Screen Analysis Results, Comstock Bulk Ore Sample LM-LG (P7), P_{80}1" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton Au	Assays, oz/ton Ag	Distribution percent Au	Distribution percent Ag	Cum. percent Au	Cum. percent Ag
+1"	29.6	29.6	0.020	1.335	30.1	33.8	30.1	33.8
-1+1/2"	35.7	65.3	0.017	1.260	30.8	38.5	60.9	72.3
-1/2+1/4"	15.8	81.1	0.016	1.090	12.9	14.8	73.8	87.1
-1/4+10M	9.4	90.5	0.016	0.845	7.6	6.8	81.4	93.9
-10+35M	3.4	93.9	0.035	0.737	6.0	2.1	87.4	96.0
-35+65M	1.0	94.9	0.058	0.670	3.0	0.6	90.4	96.6
-65+100M	0.4	95.3	0.073	0.936	1.5	0.3	91.9	96.9
-100M	4.7	100.0	0.034	0.763	8.1	3.1	100.0	100.0
Composite	100.0		0.0197	1.168	100.0	100.0		

Table 85. - Tail Screen Analysis Results, Column Leached Residue, Comstock Bulk Ore Sample LM-LG (P7), P_{80}1" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton Au	Assays, oz/ton Ag	Distribution percent Au	Distribution percent Ag	Cum. percent Au	Cum. percent Ag
+1"	19.2	19.2	0.010	0.674	34.7	26.4	34.7	26.4
-1+1/2"	26.5	45.7	0.004	0.581	19.2	31.4	53.9	57.8
-1/2+1/4"	17.7	63.4	0.006	0.554	19.2	20.0	73.1	77.8
-1/4+10M	15.2	78.6	0.005	0.423	13.7	13.1	86.8	90.9
-10+35M	6.8	85.4	0.007	0.286	8.5	4.0	95.3	94.9
-35+65M	2.3	87.7	0.004	0.207	1.6	1.0	96.9	95.9
-65+100M	1.3	89.0	0.005	0.199	1.1	0.5	98.0	96.4
-100M	11.0	100.0	0.001	0.160	2.0	3.6	100.0	100.0
Composite	100.0		0.0055	0.490	100.0	100.0		

Note: A value of 0.0005 ozAu/ton was used for all assays reported as <0.001 ozAu/ton.

Table 86. - Recovery By Size Fraction Data, Column Leach Test, Comstock Bulk Ore Sample LM-LG (P7), P_{80}1" Feed

Size Fraction	Weight, pct. Head	Weight, pct. Tail	Assays, oz/ton Au Head	Assays, oz/ton Au Tail	Assays, oz/ton Ag Head	Assays, oz/ton Ag Tail	Recovery, pct. Au	Recovery, pct. Ag
+1"	29.6	19.2	0.020	0.010	1.335	0.674	50.0	67.4
-1+1/2"	35.7	26.5	0.017	0.004	1.260	0.581	76.5	53.9
-1/2+1/4"	15.8	17.7	0.016	0.006	1.090	0.554	62.5	49.2
-1/4+10M	9.4	15.2	0.016	0.005	0.845	0.423	68.8	49.9
-10+35M	3.4	6.8	0.035	0.007	0.737	0.286	80.0	61.2
-35+65M	1.0	2.3	0.058	0.004	0.670	0.207	93.1	69.1
-65+100M	0.4	1.3	0.073	0.005	0.936	0.199	93.2	78.7
-100M	4.7	11.0	0.034	0.001	0.763	0.160	97.1	79.0
Composite	100.0	100.0	0.0197	0.0055	1.168	0.490	72.1	58.0
					Column Recovery		75.1	41.3

Table 87. - Head Screen Analysis Results, Comstock Bulk Ore Sample LM-LG (P17), P_{80}1/2" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton Au	Assays, oz/ton Ag	Distribution percent Au	Distribution percent Ag	Cum. percent Au	Cum. percent Ag
+1/2"	18.1	18.1	0.018	0.811	15.1	17.4	17.4	17.4
-1/2+1/4"	30.4	48.5	0.016	1.029	22.5	37.1	37.6	54.5
-1/4+10M	24.7	73.2	0.020	0.779	22.8	22.8	60.4	77.3
-10+35M	11.0	84.2	0.021	0.752	10.7	9.8	71.1	87.1
-35+65M	3.6	87.8	0.037	0.653	6.1	2.8	77.2	89.9
-65+100M	1.4	89.2	0.082	0.685	5.3	1.1	82.5	91.0
-100M	10.8	100.0	0.035	0.705	17.5	9.0	100.0	100.0
Composite	100.0		0.0216	0.844	100.0	100.0		

Table 88. - Tail Screen Analysis Results, Column Leached Residue, Comstock Bulk Ore Sample LM-LG (P17), P_{80}1/2" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton Au	Assays, oz/ton Ag	Distribution percent Au	Distribution percent Ag	Cum. percent Au	Cum. percent Ag
+1/2"	20.0	20.0	0.008	0.834	34.2	30.8	34.2	30.8
-1/2+1/4"	32.3	52.3	0.005	0.644	34.6	38.4	68.8	69.2
-1/4+10M	24.0	76.3	0.003	0.484	15.4	21.5	84.2	90.7
-10+35M	9.9	86.2	0.004	0.270	8.5	4.9	92.7	95.6
-35+65M	2.7	88.9	0.004	0.199	2.4	1.0	95.1	96.6
-65+100M	1.0	89.9	0.003	0.191	0.6	0.4	95.7	97.0
-100M	10.1	100.0	0.002	0.160	4.3	3.0	100.0	100.0
Composite	100.0		0.0047	0.541	100.0	100.0		

Note: A value of 0.0005 ozAu/ton was used for all assays reported as <0.001 ozAu/ton.

Table 89. - Recovery By Size Fraction Data, Column Leach Test, Comstock Bulk Ore Sample LM-LG (P17), P_{80}1/2" Feed

Size Fraction	Weight, pct. Head	Weight, pct. Tail	Assays, oz/ton Au Head	Assays, oz/ton Au Tail	Assays, oz/ton Ag Head	Assays, oz/ton Ag Tail	Recovery, pct. Au	Recovery, pct. Ag
+1/2"	18.1	20.0	0.018	0.008	0.811	0.834	55.6	-2.8
-1/2+1/4"	30.4	32.3	0.016	0.005	1.029	0.644	68.8	37.4
-1/4+10M	24.7	24.0	0.020	0.003	0.779	0.484	85.0	37.9
-10+35M	11.0	9.9	0.021	0.004	0.752	0.270	80.9	64.1
-35+65M	3.6	2.7	0.037	0.004	0.653	0.199	89.2	69.5
-65+100M	1.4	1.0	0.082	0.003	0.685	0.191	96.3	72.1
-100M	10.8	10.1	0.035	0.002	0.705	0.160	94.3	77.3
Composite	100.0	100.0	0.0216	0.0047	0.844	0.541	78.2	35.9
					Column Recovery		75.8	42.5

Table 90. - Head Screen Analysis Results, Comstock Bulk Ore Sample LM-006, 007 (P8), P_{80}1" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton Au	Assays, oz/ton Ag	Distribution percent Au	Distribution percent Ag	Cum. percent Au	Cum. percent Ag
+1"	14.5	14.5	0.007	0.131	2.6	9.5	2.6	9.5
-1+1/2"	40.4	54.9	0.014	0.172	14.7	34.7	17.3	44.2
-1/2+1/4"	16.3	71.2	0.021	0.149	8.9	12.1	26.2	56.3
-1/4+10M	12.8	84.0	0.068	0.187	22.6	11.9	48.8	68.2
-10+35M	5.8	89.8	0.169	0.434	25.5	12.6	74.3	80.8
-35+65M	1.7	91.5	0.130	0.434	5.7	3.7	80.0	84.5
-65+100M	0.6	92.1	0.158	0.472	2.5	1.4	82.5	85.9
-100M	7.9	100.0	0.085	0.358	17.5	14.1	100.0	100.0
Composite	100.0		0.0385	0.200	100.0	100.0		

Table 91. - Tail Screen Analysis Results, Column Leached Residue, Comstock Bulk Ore Sample LM-006, 007 (P8), P_{80}1" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton Au	Assays, oz/ton Ag	Distribution percent Au	Distribution percent Ag	Cum. percent Au	Cum. percent Ag
+1"	15.9	15.9	0.003	0.105	12.8	21.3	12.8	21.3
-1+1/2"	39.5	55.4	0.002	0.081	21.0	40.8	33.8	62.1
-1/2+1/4"	17.1	72.5	0.004	0.060	18.1	13.1	51.9	75.2
-1/4+10M	12.2	84.7	0.005	0.067	16.2	10.5	68.1	85.7
-10+35M	5.0	89.7	0.019	0.096	25.3	6.1	93.4	91.8
-35+65M	1.6	91.3	0.009	0.100	3.7	2.0	97.1	93.8
-65+100M	0.7	92.0	0.004	0.087	0.8	0.8	97.9	94.6
-100M	8.0	100.0	0.001	0.053	2.1	5.4	100.0	100.0
Composite	100.0		0.0038	0.078	100.0	100.0		

Note: A value of 0.0005 ozAu/ton was used for all assays reported as <0.001 ozAu/ton.

Table 92. - Recovery By Size Fraction Data, Column Leach Test, Comstock Bulk Ore Sample LM-006, 007 (P8), P_{80}1" Feed

Size Fraction	Weight, pct. Head	Weight, pct. Tail	Assays, oz/ton Au Head	Assays, oz/ton Au Tail	Assays, oz/ton Ag Head	Assays, oz/ton Ag Tail	Recovery, pct. Au	Recovery, pct. Ag
+1"	14.5	15.9	0.007	0.003	0.131	0.105	57.1	19.8
-1+1/2"	40.4	39.5	0.014	0.002	0.172	0.081	85.7	52.9
-1/2+1/4"	16.3	17.1	0.021	0.004	0.149	0.060	81.0	59.7
-1/4+10M	12.8	12.2	0.068	0.005	0.187	0.067	92.6	64.2
-10+35M	5.8	5.0	0.169	0.019	0.434	0.096	88.8	77.9
-35+65M	1.7	1.6	0.130	0.009	0.434	0.100	93.1	77.0
-65+100M	0.6	0.7	0.158	0.004	0.472	0.087	97.5	81.6
-100M	7.9	8.0	0.085	0.001	0.358	0.053	98.8	85.2
Composite	100.0	100.0	0.0385	0.0038	0.200	0.078	90.1	61.0
					Column Recovery		82.2	59.4

Table 93. - Head Screen Analysis Results, Comstock Bulk Ore Sample LM-006, 007 (P18), P_{80}1/2" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton		Distribution percent		Cum. percent	
			Au	Ag	Au	Ag	Au	Ag
+1/2"	21.2	21.2	0.010	0.178	7.3	15.0	7.3	15.0
-1/2+1/4"	34.8	56.0	0.012	0.184	14.5	25.4	21.8	40.4
-1/4+10M	22.6	78.6	0.041	0.194	32.1	17.4	53.9	57.8
-10+35M	9.1	87.7	0.071	0.624	22.4	22.6	76.3	80.4
-35+65M	2.2	89.9	0.074	0.583	5.6	5.1	81.9	85.5
-65+100M	0.9	90.8	0.108	0.431	3.4	1.5	85.3	87.0
-100M	9.2	100.0	0.046	0.356	14.7	13.0	100.0	100.0
Composite	100.0		0.0289	0.252	100.0	100.0		

Table 94. - Tail Screen Analysis Results, Column Leached Residue, Comstock Bulk Ore Sample LM-006, 007 (P18), P_{80}1/2" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton		Distribution percent		Cum. percent	
			Au	Ag	Au	Ag	Au	Ag
+1/2"	17.1	17.1	0.001	0.092	3.0	20.7	3.0	20.7
-1/2+1/4"	33.3	50.4	0.012	0.066	69.1	29.0	72.1	49.7
-1/4+10M	25.5	75.9	0.002	0.073	8.8	24.6	80.9	74.3
-10+35M	9.6	85.5	0.006	0.095	10.0	12.0	90.9	86.3
-35+65M	2.8	88.3	0.010	0.115	4.8	4.2	95.7	90.5
-65+100M	1.0	89.3	0.004	0.091	0.7	1.2	96.4	91.7
-100M	10.7	100.0	0.002	0.059	3.6	8.3	100.0	100.0
Composite	100.0		0.0058	0.076	100.0	100.0		

Note: A value of 0.0005 ozAu/ton was used for all assays reported as <0.001 ozAu/ton.

Table 95. - Recovery By Size Fraction Data, Column Leach Test, Comstock Bulk Ore Sample LM-006, 007 (P18), P_{80}1/2" Feed

Size Fraction	Weight, pct.		Assays, oz/ton Au		Ag		Recovery, pct.	
	Head	Tail	Head	Tail	Head	Tail	Au	Ag
+1/2"	21.2	17.1	0.010	0.001	0.178	0.092	90.0	48.3
-1/2+1/4"	34.8	33.3	0.012	0.012	0.184	0.066	0.0	64.1
-1/4+10M	22.6	25.5	0.041	0.002	0.194	0.073	95.1	62.4
-10+35M	9.1	9.6	0.071	0.006	0.624	0.095	91.5	84.8
-35+65M	2.2	2.8	0.074	0.010	0.583	0.115	86.5	80.3
-65+100M	0.9	1.0	0.108	0.004	0.431	0.091	96.3	78.9
-100M	9.2	10.7	0.046	0.002	0.356	0.059	95.6	83.4
Composite	100.0	100.0	0.0289	0.0058	0.252	0.076	79.9	69.8
					Column Recovery		76.7	61.2

Table 96. - Head Screen Analysis Results, Comstock Bulk Ore Sample LM-010, 011 (P9), P_{80}1" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton Au	Assays, oz/ton Ag	Distribution percent Au	Distribution percent Ag	Cum. percent Au	Cum. percent Ag
+1"	22.9	22.9	0.068	1.887	10.7	22.9	10.7	22.9
-1+1/2"	37.6	60.5	0.134	1.971	34.5	39.3	45.2	62.2
-1/2+1/4"	15.5	76.0	0.146	1.549	15.5	12.8	60.7	75.0
-1/4+10M	11.0	87.0	0.161	1.852	12.1	10.8	72.8	85.8
-10+35M	4.6	91.6	0.336	1.963	10.6	4.8	83.4	90.6
-35+65M	1.6	93.2	0.482	1.971	5.3	1.7	88.7	92.3
-65+100M	0.4	93.6	0.828	2.295	2.2	0.5	90.9	92.8
-100M	6.4	100.0	0.208	2.123	9.1	7.2	100.0	100.0
Composite	100.0		0.1461	1.884	100.0	100.0		

Table 97. - Tail Screen Analysis Results, Column Leached Residue, Comstock Bulk Ore Sample LM-010, 011 (P9), P_{80}1" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton Au	Assays, oz/ton Ag	Distribution percent Au	Distribution percent Ag	Cum. percent Au	Cum. percent Ag
+1"	16.4	16.4	0.045	1.164	15.6	22.4	15.6	22.4
-1+1/2"	36.4	52.8	0.062	0.930	47.7	39.7	63.3	62.1
-1/2+1/4"	17.8	70.6	0.036	0.758	13.5	15.8	76.8	77.9
-1/4+10M	13.1	83.7	0.055	0.717	15.2	11.0	92.0	88.9
-10+35M	5.3	89.0	0.048	0.723	5.4	4.5	97.4	93.4
-35+65M	1.8	90.8	0.025	0.624	1.0	1.3	98.4	94.7
-65+100M	0.8	91.6	0.024	0.589	0.4	0.6	98.8	95.3
-100M	8.4	100.0	0.007	0.471	1.2	4.7	100.0	100.0
Composite	100.0		0.0473	0.852	100.0	100.0		

Note: A value of 0.0005 ozAu/ton was used for all assays reported as <0.001 ozAu/ton.

Table 98. - Recovery By Size Fraction Data, Column Leach Test, Comstock Bulk Ore Sample LM-010, 011 (P9), P_{80}1" Feed

Size Fraction	Weight, pct. Head	Weight, pct. Tail	Assays, oz/ton Au Head	Assays, oz/ton Au Tail	Assays, oz/ton Ag Head	Assays, oz/ton Ag Tail	Recovery, pct. Au	Recovery, pct. Ag
+1"	22.9	16.4	0.068	0.045	1.887	1.164	33.8	38.3
-1+1/2"	37.6	36.4	0.134	0.062	1.971	0.930	53.7	52.8
-1/2+1/4"	15.5	17.8	0.146	0.036	1.549	0.758	75.3	51.1
-1/4+10M	11.0	13.1	0.161	0.055	1.852	0.717	65.8	61.3
-10+35M	4.6	5.3	0.336	0.048	1.963	0.723	85.7	63.2
-35+65M	1.6	1.8	0.482	0.025	1.971	0.624	94.8	68.3
-65+100M	0.4	0.8	0.828	0.024	2.295	0.589	97.1	74.3
-100M	6.4	8.4	0.208	0.007	2.123	0.471	96.6	77.8
Composite	100.0	100.0	0.1461	0.0473	1.884	0.852	67.6	54.8
					Column Recovery		74.2	50.6

Table 99. - Head Screen Analysis Results, Comstock Bulk Ore Sample LM-010, 011 (P19), P_{80}1/2" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton Au	Assays, oz/ton Ag	Distribution percent Au	Distribution percent Ag	Cum. percent Au	Cum. percent Ag
+1/2"	14.9	14.9	0.354	1.779	19.3	15.8	19.3	15.8
-1/2+1/4"	33.5	48.4	0.260	1.432	31.9	28.7	51.2	44.5
-1/4+10M	25.5	73.9	0.222	1.613	20.7	24.6	71.9	69.1
-10+35M	10.1	84.0	0.223	1.709	8.3	10.3	80.2	79.4
-35+65M	1.1	85.1	0.487	1.843	2.0	1.2	82.2	80.6
-65+100M	4.5	89.6	0.480	2.266	7.9	6.1	90.1	86.7
-100M	10.4	100.0	0.261	2.146	9.9	13.3	100.0	100.0
Composite	100.0		0.2731	1.674	100.0	100.0		

Table 100. - Tail Screen Analysis Results, Column Leached Residue, Comstock Bulk Ore Sample LM-010, 011 (P19), P_{80}1/2" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton Au	Assays, oz/ton Ag	Distribution percent Au	Distribution percent Ag	Cum. percent Au	Cum. percent Ag
+1/2"	20.0	20.0	0.108	1.064	42.2	24.0	42.2	24.0
-1/2+1/4"	36.7	56.7	0.029	0.988	20.8	40.8	63.0	64.8
-1/4+10M	21.1	77.8	0.064	0.825	26.4	19.6	89.4	84.4
-10+35M	8.8	86.6	0.037	0.723	6.4	7.2	95.8	91.6
-35+65M	3.0	89.6	0.033	0.656	1.9	2.2	97.7	93.8
-65+100M	1.2	90.8	0.019	0.609	0.5	0.8	98.2	94.6
-100M	9.2	100.0	0.010	0.524	1.8	5.4	100.0	100.0
Composite	100.0		0.0511	0.888	100.0	100.0		

Note: A value of 0.0005 ozAu/ton was used for all assays reported as <0.001 ozAu/ton.

Table 101. - Recovery By Size Fraction Data, Column Leach Test, Comstock Bulk Ore Sample LM-010, 011 (P19), P_{80}1/2" Feed

Size Fraction	Weight, pct. Head	Weight, pct. Tail	Assays, oz/ton Au Head	Assays, oz/ton Au Tail	Assays, oz/ton Ag Head	Assays, oz/ton Ag Tail	Recovery, pct. Au	Recovery, pct. Ag
+1/2"	14.9	20.0	0.354	0.108	1.779	1.064	69.5	40.2
-1/2+1/4"	33.5	36.7	0.260	0.029	1.432	0.988	88.8	31.0
-1/4+10M	25.5	21.1	0.222	0.064	1.613	0.825	71.2	48.8
-10+35M	10.1	8.8	0.223	0.037	1.709	0.723	83.4	57.7
-35+65M	1.1	3.0	0.487	0.033	1.843	0.656	93.2	64.4
-65+100M	4.5	1.2	0.480	0.019	2.266	0.609	96.0	73.1
-100M	10.4	9.2	0.261	0.010	2.146	0.524	96.2	75.6
Composite	100.0	100.0	0.2731	0.0511	1.674	0.888	81.3	47.0
					Column Recovery		71.5	49.3

Table 102. - Head Screen Analysis Results, Comstock Drill Core Composite PC10-07, 08 (P10), P_{80}1" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton Au	Assays, oz/ton Ag	Distribution percent Au	Distribution percent Ag	Cum. percent Au	Cum. percent Ag
+1"	23.3	23.3	0.066	1.079	17.5	17.7	17.5	17.7
-1+1/2"	42.2	65.5	0.070	0.965	33.6	28.7	51.1	46.4
-1/2+1/4"	13.3	78.8	0.076	1.391	11.5	13.0	62.6	59.4
-1/4+10M	10.5	89.3	0.123	1.671	14.7	12.4	77.3	71.8
-10+35M	4.5	93.8	0.092	2.147	4.7	6.8	82.0	78.6
-35+65M	1.9	95.7	0.243	3.4	5.3	4.6	87.3	83.2
-65+100M	0.4	96.1	0.271	3.8	1.2	1.1	88.5	84.3
-100M	3.9	100.0	0.259	5.7	11.5	15.7	100.0	100.0
Composite	100.0		0.0879	1.418	100.0	100.0		

Table 103. - Tail Screen Analysis Results, Column Leached Residue, Comstock Bulk Ore Sample PC10-07, 08 (P10), P_{80}1" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton Au	Assays, oz/ton Ag	Distribution percent Au	Distribution percent Ag	Cum. percent Au	Cum. percent Ag
+1"	24.5	24.5	0.063	1.499	45.8	38.3	45.8	38.3
-1+1/2"	41.8	66.3	0.031	0.916	38.4	39.9	84.2	78.2
-1/2+1/4"	16.0	82.3	0.023	0.752	10.9	12.6	95.1	90.8
-1/4+10M	9.1	91.4	0.013	0.627	3.5	5.9	98.6	96.7
-10+35M	3.2	94.6	0.008	0.379	0.8	1.3	99.4	98.0
-35+65M	1.1	95.7	0.003	0.277	0.1	0.3	99.5	98.3
-65+100M	0.5	96.2	0.003	0.300	0.1	0.2	99.6	98.5
-100M	3.8	100.0	0.004	0.386	0.4	1.5	100.0	100.0
Composite	100.0		0.0337	0.959	100.0	100.0		

Note: A value of 0.0005 ozAu/ton was used for all assays reported as <0.001 ozAu/ton.

Table 104. - Recovery By Size Fraction Data, Column Leach Test, Comstock Bulk Ore Sample PC10-07, 08 (P10), P_{80}1" Feed

Size Fraction	Weight, pct. Head	Weight, pct. Tail	Assays, oz/ton Au Head	Assays, oz/ton Au Tail	Assays, oz/ton Ag Head	Assays, oz/ton Ag Tail	Recovery, pct. Au	Recovery, pct. Ag
+1"	23.3	24.5	0.066	0.063	1.079	1.499	4.5	-38.9
-1+1/2"	42.2	41.8	0.070	0.031	0.965	0.916	55.7	5.1
-1/2+1/4"	13.3	16.0	0.076	0.023	1.391	0.752	69.7	45.9
-1/4+10M	10.5	9.1	0.123	0.013	1.671	0.627	89.4	62.5
-10+35M	4.5	3.2	0.092	0.008	2.147	0.379	91.3	82.3
-35+65M	1.9	1.1	0.243	0.003	3.4	0.277	98.8	91.8
-65+100M	0.4	0.5	0.271	0.003	3.8	0.300	98.9	92.1
-100M	3.9	3.8	0.259	0.004	5.7	0.386	98.5	93.2
Composite	100.0	100.0	0.0879	0.0337	1.418	0.959	61.7	32.4
					Column Recovery		48.9	40.4

Table 105. - Head Screen Analysis Results, Comstock Drill Core Composite PC10-07, 08 (P20), P_{80}1/2" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton		Distribution percent		Cum. percent	
			Au	Ag	Au	Ag	Au	Ag
+1/2"	15.5	15.5	0.057	1.432	12.8	13.7	12.8	13.7
-1/2+1/4"	31.3	46.8	0.057	1.379	25.8	26.6	38.6	40.3
-1/4+10M	23.4	70.2	0.079	1.554	26.7	22.4	65.3	62.7
-10+35M	13.6	83.8	0.059	1.493	11.6	12.5	76.9	75.2
-35+65M	4.7	88.5	0.074	1.636	5.0	4.8	81.9	80.0
-65+100M	2.7	91.2	0.141	2.447	5.5	4.1	87.4	84.1
-100M	8.8	100.0	0.099	2.917	12.0	15.9	100.0	100.0
Composite	100.0		0.0692	1.620	100.0	100.0		

Table 106. - Tail Screen Analysis Results, Column Leached Residue, Comstock Bulk Ore Sample PC10-07, 08 (P20), P_{80}1/2" Feed

Size Fraction	Weight, percent	Cum. Wt., percent	Assays, oz/ton		Distribution percent		Cum. percent	
			Au	Ag	Au	Ag	Au	Ag
+1/2"	19.7	19.7	0.081	1.070	41.9	27.9	41.9	27.9
-1/2+1/4"	40.3	60.0	0.039	0.779	41.2	41.5	83.1	69.4
-1/4+10M	22.3	82.3	0.023	0.773	13.5	22.8	96.6	92.2
-10+35M	8.7	91.0	0.006	0.370	1.4	4.3	98.0	96.5
-35+65M	2.5	93.5	0.025	0.312	1.6	1.0	99.6	97.5
-65+100M	1.0	94.5	0.004	0.260	0.1	0.3	99.7	97.8
-100M	5.5	100.0	0.002	0.296	0.3	2.2	100.0	100.0
Composite	100.0		0.0381	0.756	100.0	100.0		

Note: A value of 0.0005 ozAu/ton was used for all assays reported as <0.001 ozAu/ton.

Table 107. - Recovery By Size Fraction Data, Column Leach Test, Comstock Bulk Ore Sample PC10-07, 08 (P20), P_{80}1/2" Feed

Size Fraction	Weight, pct.		Assays, oz/ton Au		Ag		Recovery, pct.	
	Head	Tail	Head	Tail	Head	Tail	Au	Ag
+1/2"	15.5	19.7	0.057	0.081	1.432	1.070	-42.1	25.3
-1/2+1/4"	31.3	40.3	0.057	0.039	1.379	0.779	31.6	43.5
-1/4+10M	23.4	22.3	0.079	0.023	1.554	0.773	70.9	50.2
-10+35M	13.6	8.7	0.059	0.006	1.493	0.370	89.8	75.2
-35+65M	4.7	2.5	0.074	0.025	1.636	0.312	66.2	80.9
-65+100M	2.7	1.0	0.141	0.004	2.447	0.260	97.2	89.4
-100M	8.8	5.5	0.099	0.002	2.917	0.296	98.0	89.8
Composite	100.0	100.0	0.0692	0.0381	1.620	0.756	44.9	53.3
					Column Recovery		46.5	45.7

A detailed discussion of all screen analyses would be redundant, so general comments are provided below.

- Head screen results show generally that Au values were fairly evenly distributed with some enrichment in minus 100M fractions for P_{80}1" feeds (some exceptions). Value distribution was generally uneven for P_{80}1/2" feeds.
- Tail screen results show that residual gold values were not evenly distributed with enrichment in the coarser fractions (generally +1/4" fractions). Gold was more readily extracted from finer (-1/4" to -10M) size fractions, especially from minus 100M fractions.
- Recovery by size fraction data indicate a value liberation size of -10 mesh or finer.
- Overall recovery from head and tail screen comparisons agreed well with actual CT recoveries for 16 of 20 of the column leach tests. The four exceptions were because head screen grade did not agree well with CT calculated heads.

Gold metallurgical balances for the 20 CT's are provided in Tables 108-127.

Table 108. - Gold Metallurgical Balances, Column Leach Test, Comstock Bulk Ore Sample DA-001 (P1), P_{80}1" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAu/ton ore	0.0213	0.0218	0.0344
Tail Screen, ozAu/ton	0.0172	0.0172	0.0172
Calc'd Head, ozAu/ton ore	0.0385	0.0390	0.0516
Au Recovery, percent	55.3	55.9	66.7
Deviation, ozAu/ton ore[1)]	N/A	0.0005	0.0131
Precision, percent	100.0	98.7	74.6

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 109. - Gold Metallurgical Balances, Column Leach Test, Comstock Bulk Ore Sample DA-001 (P11), P_{80}1/2" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAu/ton ore	0.0227	0.0309	0.0245
Tail Screen, ozAu/ton	0.0120	0.0120	0.0120
Calc'd Head, ozAu/ton ore	0.0347	0.0429	0.0365
Au Recovery, percent	65.4	72.0	67.1
Deviation, ozAu/ton ore[1)]	N/A	0.0082	0.0018
Precision, percent	100.0	80.9	95.1

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 110. - Gold Metallurgical Balances, Column Leach Test, Comstock Bulk Ore Sample DP-004 (P2), P_{80}1" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAu/ton ore	0.0496	0.0548	0.0556
Tail Screen, ozAu/ton	0.0033	0.0033	0.0033
Calc'd Head, ozAu/ton ore	0.0529	0.0581	0.0589
Au Recovery, percent	93.8	94.3	94.4
Deviation, ozAu/ton ore[1)]	N/A	0.0052	0.0060
Precision, percent	100.0	91.0	89.8

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 111. - Gold Metallurgical Balances, Column Leach Test, Comstock Bulk Ore Sample DP-004 (P12), P_{80}1/2" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAu/ton ore	0.0492	0.0507	0.0570
Tail Screen, ozAu/ton	0.0031	0.0031	0.0031
Calc'd Head, ozAu/ton ore	0.0523	0.0538	0.0601
Au Recovery, percent	94.1	94.2	94.8
Deviation, ozAu/ton ore[1)]	N/A	0.0015	0.0078
Precision, percent	100.0	97.2	87.0

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 112. - Gold Metallurgical Balances, Column Leach Test, Comstock Bulk Ore Sample DP-005 (P3), P_{80}1" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAu/ton ore	0.1015	0.0996	0.0885
Tail Screen, ozAu/ton	0.0331	0.0331	0.0331
Calc'd Head, ozAu/ton ore	0.1346	0.1327	0.1216
Au Recovery, percent	75.4	75.1	72.8
Deviation, ozAu/ton ore[1)]	N/A	0.0019	0.0130
Precision, percent	100.0	98.6	90.3

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 113. - Gold Metallurgical Balances, Column Leach Test, Comstock Bulk Ore Sample DP-005 (P13), P_{80}1/2" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAu/ton ore	0.1028	0.1002	0.0927
Tail Screen, ozAu/ton	0.0200	0.0200	0.0200
Calc'd Head, ozAu/ton ore	0.1228	0.1202	0.1127
Au Recovery, percent	83.7	83.4	82.2
Deviation, ozAu/ton ore[1)]	N/A	0.0026	0.0101
Precision, percent	100.0	97.9	91.8

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 114. - Gold Metallurgical Balances, Column Leach Test, Comstock Bulk Ore Sample HM-MG (P4), P_{80}1" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAu/ton ore	0.0212	0.0230	0.0246
Tail Screen, ozAu/ton	0.0082	0.0082	0.0082
Calc'd Head, ozAu/ton ore	0.0294	0.0312	0.0328
Au Recovery, percent	72.1	73.7	75.0
Deviation, ozAu/ton ore[1)]	N/A	0.0018	0.0034
Precision, percent	100.0	94.2	89.6

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 115. - Gold Metallurgical Balances, Column Leach Test, Comstock Bulk Ore Sample HM-MG (P14), P_{80}1/2" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAu/ton ore	0.0218	0.0251	0.0220
Tail Screen, ozAu/ton	0.0130	0.0130	0.0130
Calc'd Head, ozAu/ton ore	0.0348	0.0381	0.0350
Au Recovery, percent	62.6	65.9	62.9
Deviation, ozAu/ton ore[1)]	N/A	0.0033	0.0002
Precision, percent	100.0	91.3	99.4

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 116. - Gold Metallurgical Balances, Column Leach Test, Comstock Bulk Ore Sample HM-010 (P5), P_{80}1" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAu/ton ore	0.0863	0.0902	0.0919
Tail Screen, ozAu/ton	0.0479	0.0479	0.0479
Calc'd Head, ozAu/ton ore	0.1342	0.1381	0.1398
Au Recovery, percent	64.3	65.3	65.7
Deviation, ozAu/ton ore[1)]	N/A	0.0039	0.0056
Precision, percent	100.0	97.2	96.0

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 117. - Gold Metallurgical Balances, Column Leach Test, Comstock Bulk Ore Sample HM-010 (P15), P_{80}1/2" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAu/ton ore	0.0902	0.0961	0.0876
Tail Screen, ozAu/ton	0.0655	0.0655	0.0655
Calc'd Head, ozAu/ton ore	0.1557	0.1616	0.1531
Au Recovery, percent	57.9	59.5	57.2
Deviation, ozAu/ton ore[1)]	N/A	0.0059	0.0026
Precision, percent	100.0	96.3	98.3

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 118. - Gold Metallurgical Balances, Column Leach Test, Comstock Bulk Ore Sample HM-011 (P6), P_{80}1" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAu/ton ore	0.0133	0.0140	0.0116
Tail Screen, ozAu/ton	0.0034	0.0034	0.0034
Calc'd Head, ozAu/ton ore	0.0167	0.0174	0.0150
Au Recovery, percent	79.6	80.5	77.3
Deviation, ozAu/ton ore[1)]	N/A	0.0007	0.0017
Precision, percent	100.0	96.0	89.8

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 119. - Gold Metallurgical Balances, Column Leach Test, Comstock Bulk Ore Sample HM-011 (P16), P_{80}1/2" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAu/ton ore	0.0130	0.0136	0.0146
Tail Screen, ozAu/ton	0.0027	0.0027	0.0027
Calc'd Head, ozAu/ton ore	0.0157	0.0163	0.0173
Au Recovery, percent	82.8	83.4	84.4
Deviation, ozAu/ton ore[1)]	N/A	0.0006	0.0016
Precision, percent	100.0	96.3	90.8

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 120. - Gold Metallurgical Balances, Column Leach Test, Comstock Bulk Ore Sample LM-LG (P7), P_{80}1" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAu/ton ore	0.0166	0.0179	0.0142
Tail Screen, ozAu/ton	0.0055	0.0055	0.0055
Calc'd Head, ozAu/ton ore	0.0221	0.0234	0.0197
Au Recovery, percent	75.1	76.5	72.1
Deviation, ozAu/ton ore[1)]	N/A	0.0013	0.0024
Precision, percent	100.0	94.4	89.1

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 121. - Gold Metallurgical Balances, Column Leach Test, Comstock Bulk Ore Sample LM-LG (P17), P_{80}1/2" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAu/ton ore	0.0147	0.0144	0.0079
Tail Screen, ozAu/ton	0.0047	0.0047	0.0047
Calc'd Head, ozAu/ton ore	0.0194	0.0191	0.0126
Au Recovery, percent	75.8	75.4	62.7
Deviation, ozAu/ton ore[1)]	N/A	0.0003	0.0068
Precision, percent	100.0	98.4	64.9

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 122. - Gold Metallurgical Balances, Column Leach Test, Comstock Bulk Ore Sample LM-006, 007 (P8), P_{80}1" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAu/ton ore	0.0175	0.0222	0.0347
Tail Screen, ozAu/ton	0.0038	0.0038	0.0038
Calc'd Head, ozAu/ton ore	0.0213	0.0260	0.0385
Au Recovery, percent	82.2	85.4	90.1
Deviation, ozAu/ton ore[1)]	N/A	0.0047	0.0172
Precision, percent	100.0	81.9	55.3

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 123. - Gold Metallurgical Balances, Column Leach Test, Comstock Bulk Ore Sample LM-006, 007 (P18), P_{80}1/2" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAu/ton ore	0.0191	0.0215	0.0231
Tail Screen, ozAu/ton	0.0058	0.0058	0.0058
Calc'd Head, ozAu/ton ore	0.0249	0.0273	0.0289
Au Recovery, percent	76.7	78.7	79.9
Deviation, ozAu/ton ore[1)]	N/A	0.0024	0.0040
Precision, percent	100.0	91.2	86.1

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 124. - Gold Metallurgical Balances, Column Leach Test, Comstock Bulk Ore Sample LM-010, 011 (P9), P_{80}1" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAu/ton ore	0.1361	0.1396	0.0988
Tail Screen, ozAu/ton	0.0473	0.0473	0.0473
Calc'd Head, ozAu/ton ore	0.1834	0.1869	0.1461
Au Recovery, percent	74.2	74.7	67.6
Deviation, ozAu/ton ore[1)]	N/A	0.0035	0.0373
Precision, percent	100.0	98.1	79.7

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 125. - Gold Metallurgical Balances, Column Leach Test, Comstock Bulk Ore Sample LM-010, 011 (P19), P_{80}1/2" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAu/ton ore	0.1281	0.1139	0.2220
Tail Screen, ozAu/ton	0.0511	0.0511	0.0511
Calc'd Head, ozAu/ton ore	0.1792	0.1650	0.2731
Au Recovery, percent	71.5	69.0	81.3
Deviation, ozAu/ton ore[1)]	N/A	0.0142	0.0939
Precision, percent	100.0	92.1	65.6

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 126. - Gold Metallurgical Balances, Column Leach Test, Comstock Core Composite PC10-07, 08 (P10), P_{80}1" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAu/ton ore	0.0323	0.0404	0.0542
Tail Screen, ozAu/ton	0.0337	0.0337	0.0337
Calc'd Head, ozAu/ton ore	0.0660	0.0741	0.0879
Au Recovery, percent	48.9	54.5	61.7
Deviation, ozAu/ton ore[1)]	N/A	0.0081	0.0219
Precision, percent	100.0	89.1	75.1

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 127. - Gold Metallurgical Balances, Column Leach Test, Comstock Core Composite PC10-07, 08 (P10), P_{80}1/2" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAu/ton ore	0.0331	0.0354	0.0311
Tail Screen, ozAu/ton	0.0381	0.0381	0.0381
Calc'd Head, ozAu/ton ore	0.0712	0.0735	0.0692
Au Recovery, percent	46.5	48.2	44.9
Deviation, ozAu/ton ore[1)]	N/A	0.0023	0.0020
Precision, percent	100.0	96.9	97.2

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Gold metallurgical balances (sol. vs. tail and carbon vs. tail) generally agreed well and were within the expected precision of >90% (for “nugget” effect ores). The head screen vs. tail screen balance is considered the least reliable of the three balances, but precision was greater than the expected 85% for 14 of the 20 CT’s. Carbon vs. tail screen balances generally show higher Au extracted values than the solution vs. tail screen balance because low (less than detect) gold values do not report as extracted values while all dissolved Au will load onto the carbon regardless of pregnant solution grade.

Silver metallurgical balances are provided in Tables 128 through 147.

Table 128. - Silver Metallurgical Balances, Column Leach Test, Comstock Bulk Ore Sample DA-001 (P1), P_{80}1" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAg/ton ore	0.100	0.107	0.135
Tail Screen, ozAg/ton	0.135	0.135	0.135
Calc'd Head, ozAg/ton ore	0.235	0.242	0.270
Ag Recovery, percent	42.6	44.2	50.0
Deviation, ozAg/ton ore[1)]	N/A	0.007	0.035
Precision, percent	100.0	97.1	87.0

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 129. - Silver Metallurgical Balances, Column Leach Test, Comstock Bulk Ore Sample DA-001 (P11), P_{80}1/2" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAg/ton ore	0.108	0.128	0.031
Tail Screen, ozAg/ton	0.183	0.183	0.183
Calc'd Head, ozAg/ton ore	0.291	0.311	0.214
Ag Recovery, percent	37.1	41.2	14.5
Deviation, ozAg/ton ore[1)]	N/A	0.020	0.077
Precision, percent	100.0	93.6	73.5

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 130. - Silver Metallurgical Balances, Column Leach Test, Comstock Bulk Ore Sample DP-004 (P2), P_{80}1" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAg/ton ore	0.381	0.419	0.378
Tail Screen, ozAg/ton	0.425	0.425	0.425
Calc'd Head, ozAg/ton ore	0.806	0.844	0.803
Ag Recovery, percent	47.3	49.6	47.1
Deviation, ozAg/ton ore[1)]	N/A	0.038	0.003
Precision, percent	100.0	95.5	99.6

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 131. - Silver Metallurgical Balances, Column Leach Test, Comstock Bulk Ore Sample DP-004 (P12), P_{80}1/2" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAg/ton ore	0.410	0.439	0.404
Tail Screen, ozAg/ton	0.371	0.371	0.371
Calc'd Head, ozAg/ton ore	0.781	0.810	0.775
Ag Recovery, percent	52.5	54.2	52.1
Deviation, ozAg/ton ore[1)]	N/A	0.029	0.006
Precision, percent	100.0	96.4	99.2

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 132. - Silver Metallurgical Balances, Column Leach Test, Comstock Bulk Ore Sample DP-005 (P3), P_{80}1" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAu/ton ore	0.341	0.348	0.387
Tail Screen, ozAu/ton	0.469	0.469	0.469
Calc'd Head, ozAu/ton ore	0.810	0.817	0.856
Au Recovery, percent	42.1	42.6	45.2
Deviation, ozAu/ton ore[1)]	N/A	0.007	0.046
Precision, percent	100.0	99.6	94.6

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 133. - Silver Metallurgical Balances, Column Leach Test, Comstock Bulk Ore Sample DP-005 (P13), P_{80}1/2" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAg/ton ore	0.351	0.354	0.418
Tail Screen, ozAg/ton	0.347	0.347	0.347
Calc'd Head, ozAg/ton ore	0.698	0.701	0.765
Ag Recovery, percent	50.3	50.5	54.6
Deviation, ozAg/ton ore[1)]	N/A	0.003	0.067
Precision, percent	100.0	99.6	91.2

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 134. - Silver Metallurgical Balances, Column Leach Test, Comstock Bulk Ore Sample HM-MG (P4), P_{80}1" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAg/ton ore	0.184	0.186	0.200
Tail Screen, ozAg/ton	0.244	0.244	0.244
Calc'd Head, ozAg/ton ore	0.428	0.430	0.444
Ag Recovery, percent	43.0	43.2	45.0
Deviation, ozAg/ton ore[1)]	N/A	0.020	0.016
Precision, percent	100.0	99.5	96.4

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 135. - Silver Metallurgical Balances, Column Leach Test, Comstock Bulk Ore Sample HM-MG (P14), P_{80}1/2" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAg/ton ore	0.183	0.200	0.176
Tail Screen, ozAg/ton	0.263	0.263	0.263
Calc'd Head, ozAg/ton ore	0.446	0.463	0.439
Ag Recovery, percent	41.0	43.2	40.1
Deviation, ozAg/ton ore[1)]	N/A	0.017	0.007
Precision, percent	100.0	96.3	98.4

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 136. - Silver Metallurgical Balances, Column Leach Test, Comstock Bulk Ore Sample HM-010 (P5), P_{80}1" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAg/ton ore	0.585	0.628	0.505
Tail Screen, ozAg/ton	0.680	0.680	0.680
Calc'd Head, ozAg/ton ore	1.265	1.308	1.185
Ag Recovery, percent	46.2	48.0	42.6
Deviation, ozAg/ton ore[1)]	N/A	0.043	0.080
Precision, percent	100.0	96.7	93.7

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 137. - Silver Metallurgical Balances, Column Leach Test, Comstock Bulk Ore Sample HM-010 (P15), P_{80}1/2" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAg/ton ore	0.549	0.482	0.641
Tail Screen, ozAg/ton	0.448	0.448	0.448
Calc'd Head, ozAg/ton ore	0.997	0.930	1.089
Ag Recovery, percent	55.1	51.8	58.9
Deviation, ozAg/ton ore[1)]	N/A	0.067	0.092
Precision, percent	100.0	93.3	91.6

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 138. - Silver Metallurgical Balances, Column Leach Test, Comstock Bulk Ore Sample HM-011 (P6), P_{80}1" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAg/ton ore	0.434	0.438	0.476
Tail Screen, ozAg/ton	0.228	0.228	0.228
Calc'd Head, ozAg/ton ore	0.662	0.666	0.704
Ag Recovery, percent	65.6	65.8	67.6
Deviation, ozAg/ton ore[1)]	N/A	0.004	0.042
Precision, percent	100.0	99.4	94.0

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 139. - Silver Metallurgical Balances, Column Leach Test, Comstock Bulk Ore Sample HM-011 (P16), P_{80}1/2" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAg/ton ore	0.451	0.448	0.498
Tail Screen, ozAg/ton	0.196	0.196	0.196
Calc'd Head, ozAg/ton ore	0.647	0.644	0.694
Ag Recovery, percent	69.7	69.6	71.7
Deviation, ozAg/ton ore[1)]	N/A	0.003	0.047
Precision, percent	100.0	99.5	93.2

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 140. - Silver Metallurgical Balances, Column Leach Test, Comstock Bulk Ore Sample LM-LG (P7), P_{80}1" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAg/ton ore	0.345	0.365	0.678
Tail Screen, ozAg/ton	0.490	0.490	0.490
Calc'd Head, ozAg/ton ore	0.835	0.855	1.168
Ag Recovery, percent	41.3	42.7	58.0
Deviation, ozAg/ton ore[1)]	N/A	0.020	0.333
Precision, percent	100.0	97.7	71.5

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 141. - Silver Metallurgical Balances, Column Leach Test, Comstock Bulk Ore Sample LM-LG (P17), P_{80}1/2" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAg/ton ore	0.400	0.421	0.343
Tail Screen, ozAg/ton	0.541	0.541	0.541
Calc'd Head, ozAg/ton ore	0.941	0.962	0.884
Ag Recovery, percent	42.5	43.8	38.8
Deviation, ozAg/ton ore[1)]	N/A	0.021	0.057
Precision, percent	100.0	97.8	93.9

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 142. - Silver Metallurgical Balances, Column Leach Test, Comstock Bulk Ore Sample LM-006, 007 (P8), P_{80}1" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAg/ton ore	0.114	0.141	0.122
Tail Screen, ozAg/ton	0.078	0.078	0.078
Calc'd Head, ozAg/ton ore	0.192	0.219	0.200
Ag Recovery, percent	59.4	64.4	61.0
Deviation, ozAg/ton ore[1)]	N/A	0.027	0.008
Precision, percent	100.0	87.7	96.0

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 143. - Silver Metallurgical Balances, Column Leach Test, Comstock Bulk Ore Sample LM-006, 007 (P18), P_{80}1/2" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAg/ton ore	0.120	0.102	0.176
Tail Screen, ozAg/ton	0.076	0.076	0.076
Calc'd Head, ozAg/ton ore	0.196	0.178	0.252
Ag Recovery, percent	61.2	57.3	69.8
Deviation, ozAg/ton ore[1)]	N/A	0.018	0.056
Precision, percent	100.0	90.8	77.8

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 144. - Silver Metallurgical Balances, Column Leach Test, Comstock Bulk Ore Sample LM-010, 011 (P9), P_{80}1" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAg/ton ore	0.871	0.869	1.032
Tail Screen, ozAg/ton	0.852	0.852	0.852
Calc'd Head, ozAg/ton ore	1.723	1.721	1.884
Ag Recovery, percent	50.6	50.5	54.8
Deviation, ozAg/ton ore[1)]	N/A	0.002	0.161
Precision, percent	100.0	99.9	91.4

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 145. - Silver Metallurgical Balances, Column Leach Test, Comstock Bulk Ore Sample LM-010, 011 (P19), P_{80}1/2" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAg/ton ore	0.863	0.800	0.786
Tail Screen, ozAg/ton	0.888	0.888	0.888
Calc'd Head, ozAg/ton ore	1.751	1.688	1.674
Ag Recovery, percent	49.3	47.4	47.0
Deviation, ozAg/ton ore[1)]	N/A	0.063	0.077
Precision, percent	100.0	96.4	95.6

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 146. - Silver Metallurgical Balances, Column Leach Test, Comstock Core Composite PC10-07, 08 (P10), P_{80}1" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAg/ton ore	0.651	0.649	0.459
Tail Screen, ozAg/ton	0.959	0.959	0.959
Calc'd Head, ozAg/ton ore	1.610	1.608	1.418
Ag Recovery, percent	40.4	40.4	32.4
Deviation, ozAg/ton ore[1)]	N/A	0.002	0.192
Precision, percent	100.0	99.9	88.1

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

Table 147. - Silver Metallurgical Balances, Column Leach Test, Comstock Core Composite PC10-07, 08 (P20), P_{80}1/2" Feed

	Metallurgical Balance		
	Sol. vs. Tail	Carbon vs. Tail	Head vs. Tail[2)]
Extracted, ozAg/ton ore	0.637	0.646	0.864
Tail Screen, ozAg/ton	0.756	0.756	0.756
Calc'd Head, ozAg/ton ore	1.393	1.402	1.620
Ag Recovery, percent	45.7	46.1	53.3
Deviation, ozAg/ton ore[1)]	N/A	0.009	0.227
Precision, percent	100.0	99.4	86.0

1) Deviation from solution versus tail screen calculated head.
2) Calculated, based on head screen and tail screen results.

All silver metallurgical balances (sol., carbon, Hd. vs. tail) agreed well except in a few cases. Carbon vs. tail screen and head screen vs. tail screen balances were within expected precision except in a few cases (1 carbon balance, 3 head vs. tail balances).

Physical ore characteristic data for the 20 CT's are provided in Table 148.

Table 148. - Physical Ore Characteristic Data, Comstock Bulk Ore Samples

Bulk Ore Sample I.D.	Column Test No.	Feed Size, P_{80}	Ore wt., lbs.	Moisture, wt. % To Saturate[1)]	Moisture, wt. % for Agglomeration	Moisture, wt. % Retained	Bulk Density, lb/ft^3 Start	Bulk Density, lb/ft^3 End	Slump, %
DA-001	P1	1"	159.66	18.0	4.6	6.0	86.63	86.63	0.0
DA-001	P11	1/2"	158.16	18.9	4.9	7.8	82.59	82.59	0.0
DP-004	P2	1"	157.85	22.8	6.7	11.9	71.59	81.84	14.3
DP-004	P12	1/2"	154.65	22.0	5.0	7.7	70.97	80.08	12.8
DP-005	P3	1"	156.28	21.3	5.8	8.4	76.05	79.89	5.0
DP-005	P13	1/2"	157.56	21.6	5.6	9.6	69.75	79.61	14.1
HM-MG (Comp)	P4	1"	157.76	20.4	5.9	6.2	74.84	80.86	8.0
HM-MG (Comp)	P14	1/2"	159.61	20.0	6.1	8.0	71.25	77.36	8.6
HM-010	P5	1"	159.52	20.9	5.2	9.6	76.73	81.09	5.7
HM-010	P15	1/2"	158.14	21.8	5.8	6.2	68.88	75.77	10.0
HM-011	P6	1"	152.87	22.4	4.3	6.7	78.52	80.80	2.9
HM-011	P16	1/2"	157.32	21.3	6.8	6.5	71.57	74.23	3.7
LM-LG (Comp)	P7	1"	161.16	20.5	5.6	7.6	76.42	79.46	4.0
LM-LG (Comp)	P17	1/2"	159.09	21.4	6.1	8.1	74.44	75.21	1.0
LM-006, 007	P8	1"	160.12	19.7	6.0	8.3	73.32	77.60	5.8
LM-006, 007	P18	1/2"	160.89	19.7	6.1	9.1	74.23	75.85	2.2
LM-010, 011	P9	1"	159.02	21.0	6.1	5.6	79.08	79.08	0.0
LM-010, 011	P19	1/2"	160.52	19.9	6.2	7.5	74.58	74.73	0.2
PC10-07, 08 (Comp)	P10	1"	151.43	18.8	4.9	9.1	96.58	97.42	0.9
PC10-07, 08 (Comp)	P20	1/2"	145.70	17.5	4.7	4.7	96.98	97.76	0.8

1) Moisture added to achieve steady state influent and effluent flow. Calculated on a dry ore weight basis. Includes moisture for agglomeration.

- Saturation moistures were fairly typical for crushed, heap leach ores at about 20%. These data are important for planning for sufficient leach solution availability to moisten new ore placed on the heap until steady state influent and effluent flow conditions are established.
- Agglomeration moistures were lower than typical for heap ores containing clayey fines.
- Retained moistures were also lower than typical.
- Bulk densities were fairly low, but were typical of agglomerated feeds.
- Slumping in the columns was minimal except for a few CT's.

CONCLUSIONS

- Bulk ore samples were amenable to heap leach cyanidation at a P_{80}1" crush size.
- Gold recovery and rates were not, generally, crush size sensitive.
- Recovery rates, overall, were slow and long leach cycles will be required for commercial heap production.
- NaCN consumptions from CT's were high, but should be substantially lower in commercial heap leach production.
- Cement added during agglomeration was sufficient for pH control during the CT's.

COMMENTS/RECOMMENDATIONS

- Previous data show that mineable ores are readily amenable to milling/cyanidation at a fairly coarse grind size (P_{80}100M), and with concern about commercial heap stack heights, the milling option remains for the project.

- Additional geotechnical testwork must be conducted to resolve questions about commercial heap stack heights. There are CT residues available for this work, but it must be decided which residues should be selected for this work.

- Drill core below bulk sample acquisition areas must be evaluated to confirm that metallurgical behavior of bulk samples represents mineable ore at depth.

Gene E. McClelland
Metallurgist/President

APPENDIX

Table 1. - Summary Metallurgical Results, Column Percolation Leach Tests, Lucerne Project

Test	Sample	Feed Size	Leach/Rinse Time,	Solution Applied ton/ton ore		Au Rec.	oz Au/ton ore					Ag Rec.	oz Ag/ton ore					NaCN Consumed,	Cement Added,
No.	I.D.	80% minus	days	Leaching	Rinsing	%	Extracted	Tail Screen	Calc'd. Head	Avg. Head	Head Screen	%	Extracted	Tail Screen	Calc'd. Head	Avg. Head	Head Screen	lbs/ton ore	lbs/ton ore
P-1	DA-001 (LG)	1"	159	7.066	0.3	55.3	0.0213	0.0172	0.0385	0.027	0.0516	42.6	0.100	0.135	0.235	0.22	0.27	0.64	12.0
P-11	DA-001 (LG)	1/2"	159	7.142	0.3	65.4	0.0227	0.0120	0.0347	0.027	0.0365	37.1	0.108	0.183	0.291	0.22	0.21	0.79	12.0
P-2	DP-004 (MG)	1"	159	7.194	0.3	93.8	0.0496	0.0033	0.0529	0.054	0.0589	47.3	0.381	0.425	0.806	0.80	0.80	2.31	12.0
P-12	DP-004 (MG)	1/2"	159	7.304	0.3	94.1	0.0490	0.0031	0.0521	0.054	0.0601	52.5	0.410	0.371	0.781	0.80	0.78	2.38	12.0
P-3	DP-005 (MG)	1"	159	7.203	0.3	75.4	0.1015	0.0331	0.1346	0.100	0.1216	42.1	0.341	0.469	0.810	0.75	0.86	1.47	12.0
P-13	DP-005 (MG)	1/2"	159	7.153	0.3	83.7	0.1028	0.0200	0.1228	0.100	0.1127	50.3	0.351	0.347	0.698	0.75	0.76	2.12	12.0
P-4	HM-MG (Comp)	1"	191	7.825	0.1	72.1	0.0212	0.0082	0.0294	0.040	0.0328	43.0	0.184	0.244	0.428	0.45	0.44	2.21	12.0
P-14	HM-MG (Comp)	1/2"	159	7.006	0.3	62.6	0.0218	0.0130	0.0348	0.040	0.0350	41.0	0.183	0.263	0.446	0.45	0.44	2.05	12.0
P-5	HM-010 (HG)	1"	159	7.091	0.3	64.3	0.0863	0.0479	0.1342	0.172	0.1398	46.2	0.585	0.680	1.265	1.13	1.18	1.29	12.0
P-15	HM-010 (HG)	1/2"	159	7.139	0.3	57.9	0.0902	0.0655	0.1557	0.172	0.1531	55.1	0.549	0.448	0.997	1.13	1.09	1.52	12.0
P-6	HM-011 (LG)	1"	191	8.189	0.1	79.6	0.0133	0.0034	0.0167	0.018	0.0150	65.6	0.434	0.228	0.662	0.68	0.70	1.68	12.0
P-16	HM-011 (LG)	1/2"	159	7.218	0.3	82.8	0.0130	0.0027	0.0157	0.018	0.0173	69.7	0.451	0.196	0.647	0.68	0.69	1.26	12.0
P-7	LM-LG (Comp)	1"	159	7.038	0.3	75.1	0.0166	0.0055	0.0221	0.026	0.0197	41.3	0.345	0.490	0.835	0.96	1.17	1.62	12.0
P-17	LM-LG (Comp)	1/2"	159	7.098	0.3	75.8	0.0147	0.0047	0.0194	0.026	0.0216	42.5	0.400	0.541	0.941	0.96	0.84	1.68	12.0
P-8	LM-006, 007 (LG)	1"	159	7.057	0.3	82.2	0.0175	0.0038	0.0213	0.014	0.0385	59.4	0.114	0.078	0.192	0.30	0.20	1.56	12.0
P-18	LM-006, 007 (LG)	1/2"	159	7.035	0.3	76.7	0.0191	0.0058	0.0249	0.014	0.0289	61.2	0.120	0.076	0.196	0.30	0.25	1.55	12.0
P-9	LM-010, 011 (HG)	1"	191	7.919	0.1	74.2	0.1361	0.0473	0.1834	0.205	0.1461	50.6	0.871	0.852	1.723	1.84	1.88	1.20	12.0
P-19	LM-010, 011 (HG)	1/2"	159	7.048	0.3	71.5	0.1281	0.0511	0.1792	0.205	0.2731	49.3	0.863	0.888	1.751	1.84	1.67	1.20	12.0
P-10	PC10-07, 08 (Core)	1"	159	7.499	0.3	48.9	0.0323	0.0337	0.0660	0.084	0.0879	40.4	0.651	0.959	1.610	1.50	1.42	0.79	12.0
P-20	PC10-07, 08 (Core)	1/2"	159	7.758	0.3	50.0	0.0331	0.0331	0.0662	0.084	0.0692	45.7	0.637	0.756	1.393	1.50	1.62	0.50	12.0

Figure 1a.- Interim Gold Leach Rate Profiles, Lucerne Project, DA-001 (LG)

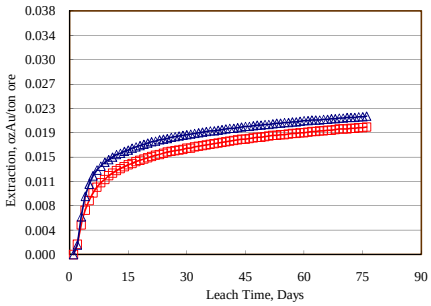


Figure 1b.- Interim Silver Leach Rate Profiles, Lucerne Project, DA-001 (LG)

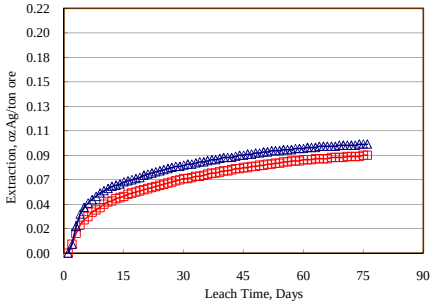


Figure 2a.- Interim Gold Leach Rate Profiles, Lucerne Project, DP-004 (MG)

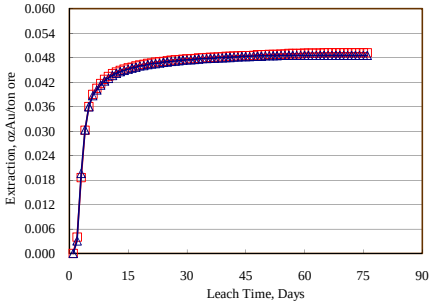


Figure 2b.- Interim Silver Leach Rate Profiles, Lucerne Project, DP-004 (MG)

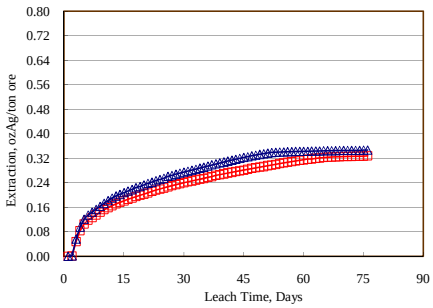


Figure 3a.- Interim Gold Leach Rate Profiles, Lucerne Project, DP-005 (MG)

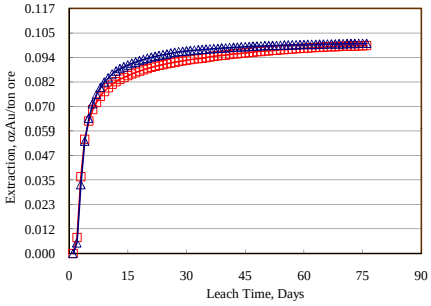
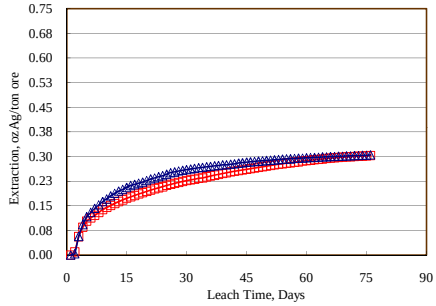


Figure 3b.- Interim Silver Leach Rate Profiles, Lucerne Project, DP-005 (MG)



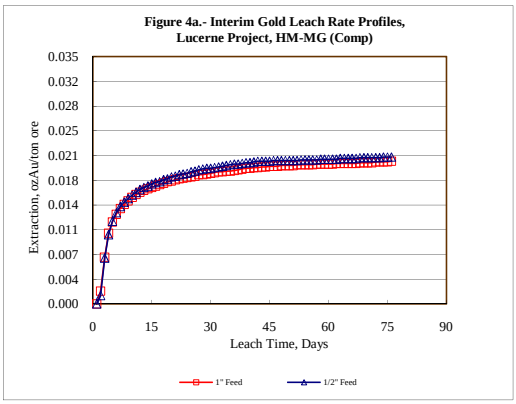


Figure 4a.- Interim Gold Leach Rate Profiles,
Lucerne Project, HM-MG (Comp)
Extraction, ozAu/ton ore
0.035
0.032
0.028
0.025
0.021
0.018
0.014
0.011
0.007
0.004
0.000
0
15
30
45
60
75
90
Leach Time, Days
1" Feed
1/2" Feed

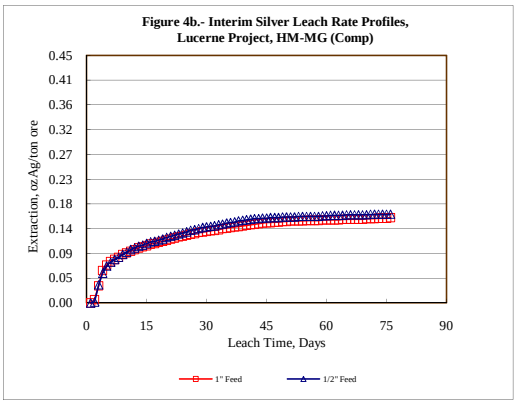


Figure 4b.- Interim Silver Leach Rate Profiles,
Lucerne Project, HM-MG (Comp)
Extraction, oz Ag/ton ore
0.45
0.41
0.36
0.32
0.27
0.23
0.18
0.14
0.09
0.05
0.00
0
15
30
45
60
75
90
Leach Time, Days
1" Feed
1/2" Feed

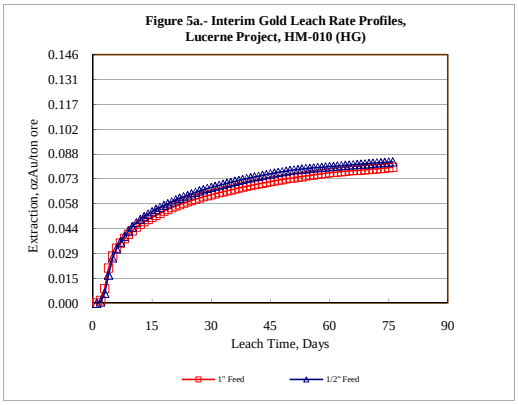


Figure 5a.- Interim Gold Leach Rate Profiles,
Lucerne Project, HM-010 (HG)
Extraction, ozAu/ton ore
0.146
0.131
0.117
0.102
0.088
0.073
0.058
0.044
0.029
0.015
0.000
0
15
30
45
60
75
90
Leach Time, Days
1" Feed
1/2" Feed

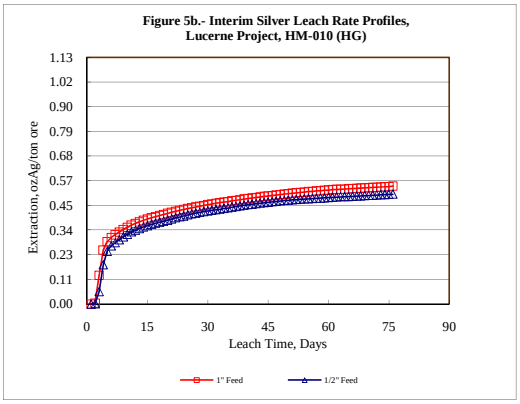


Figure 5b.- Interim Silver Leach Rate Profiles,
Lucerne Project, HM-010 (HG)
Extraction, ozAg/ton ore
1.13
1.02
0.90
0.79
0.68
0.57
0.45
0.34
0.23
0.11
0.00
0
15
30
45
60
75
90
Leach Time, Days
1" Feed
1/2" Feed

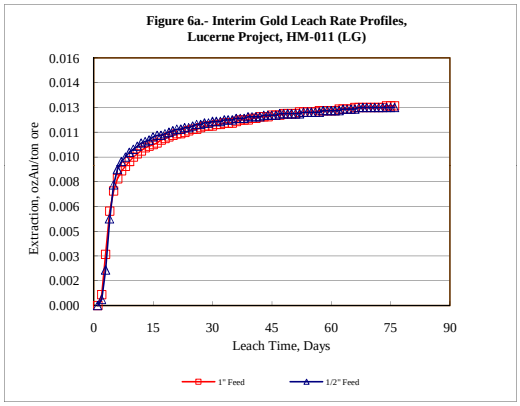


Figure 6a.- Interim Gold Leach Rate Profiles,
Lucerne Project, HM-011 (LG)
Extraction, ozAu/ton ore
0.016
0.014
0.013
0.011
0.010
0.008
0.006
0.005
0.003
0.002
0.000
0
15
30
45
60
75
90
Leach Time, Days
1" Feed
1/2" Feed

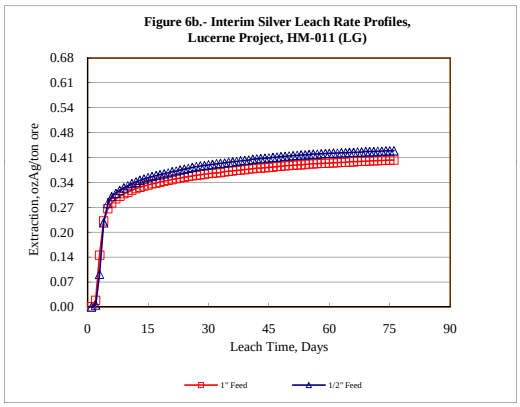


Figure 6b.- Interim Silver Leach Rate Profiles,
Lucerne Project, HM-011 (LG)
Extraction, ozAg/ton ore
0.68
0.61
0.54
0.48
0.41
0.34
0.27
0.20
0.14
0.07
0.00
0
15
30
45
60
75
90
Leach Time, Days
1" Feed
1/2" Feed

Figure 7a.- Interim Gold Leach Rate Profiles, Lucerne Project, LM-LG (Comp)

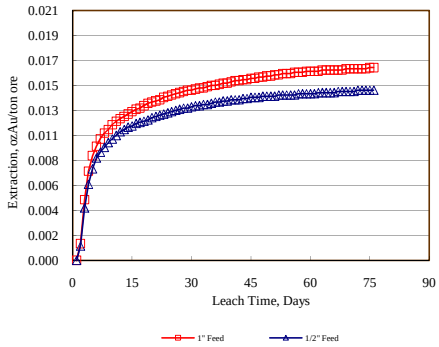


Figure 7b.- Interim Silver Leach Rate Profiles, Lucerne Project, LM-LG (Comp)

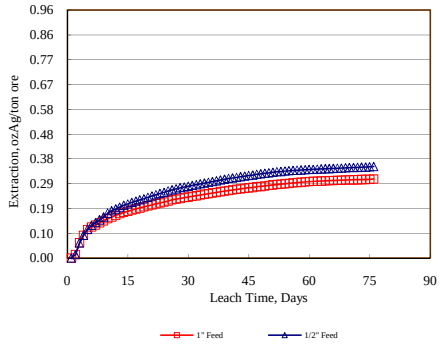


Figure 8a.- Interim Gold Leach Rate Profiles, Lucerne Project, LM-006, 007 (LG)

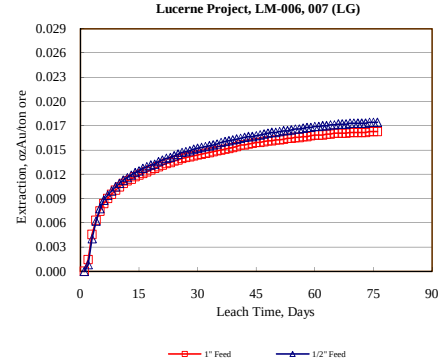


Figure 8b.- Interim Silver Leach Rate Profiles, Lucerne Project, LM-006, 007 (LG)

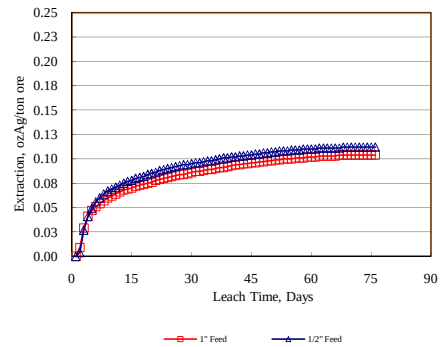


Figure 9a.- Interim Gold Leach Rate Profiles, Lucerne Project, LM-010, 011 (HG)

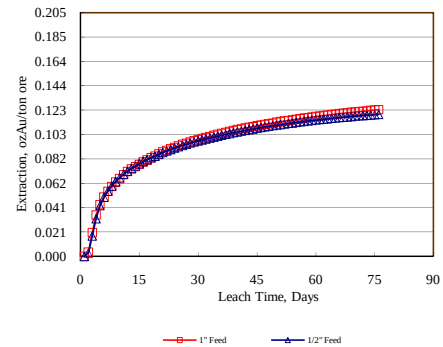
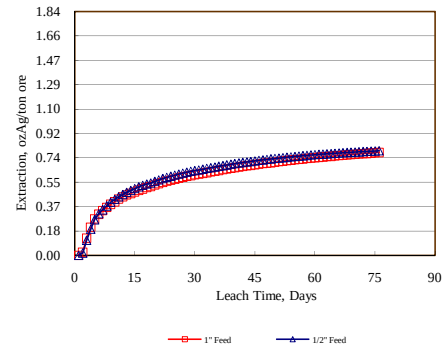


Figure 9b.- Interim Silver Leach Rate Profiles, Lucerne Project, LM-010, 011 (HG)



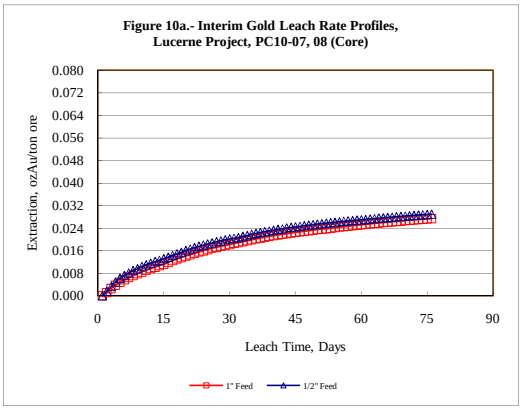


Figure 10a.- Interim Gold Leach Rate Profiles,
Lucerne Project, PC10-07, 08 (Core)
Extraction, ozAu/ton ore
0.080
0.072
0.064
0.056
0.048
0.040
0.032
0.024
0.016
0.008
0.000
0
15
30
45
60
75
90
Leach Time, Days
1" Feed
1/2" Feed

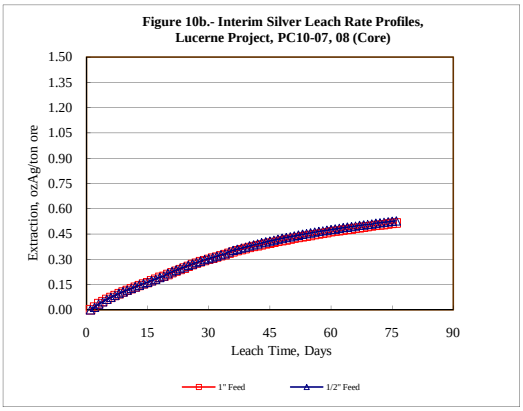


Figure 10b.- Interim Silver Leach Rate Profiles,
Lucerne Project, PC10-07, 08 (Core)
Extraction, ozAg/ton ore
1.50
1.35
1.20
1.05
0.90
0.75
0.60
0.45
0.30
0.15
0.00
0
15
30
45
60
75
90
Leach Time, Days
1" Feed
1/2" Feed

3439 P-1

Ore Charge				NaCN added	123.32	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	0.64	lb/ton ore				Au	Ag
72.42	kg	0.072	mt								
159.66	lb	0.0798	ton		12.0	lbs Cement/ton of ore			Avg. Head	0.027	0.22
									Head Screen	0.0516	0.27
									Tail Screen	0.0172	0.135
									Tail Assay		

Daily Column Leach Test Data,
Sample I.D. DA-001 (LG)
Test Conditions,

Feed Size, 80% minus 1"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton		cum. mg		cum. mg
12/9	1												0.00	0.00	0.00	0.00	0.00
12/10	2	3.46	0.15	11.7	1.15	5.73	0.00	0.00	0.0016	4.2	0.008	3.4	0.02	3.98	3.98	19.83	19.83
12/11	3	4.15	0.20	12.5	1.77	5.82	0.00	0.00	0.0046	11.9	0.018	7.7	0.03	7.35	11.32	24.15	43.98
12/12	4	5.33	0.20	12.0	1.10	3.42	0.00	0.00	0.0069	17.9	0.025	10.6	0.04	5.86	17.19	18.23	62.21
12/13	5	5.17	0.20	11.9	0.73	2.30	0.00	0.01	0.0084	21.8	0.030	12.8	0.05	3.77	20.96	11.89	74.10
12/14	6	4.98	0.25	11.8	0.58	1.83	0.00	0.00	0.0096	24.9	0.033	14.0	0.05	2.89	23.85	9.06	83.16
12/15	7	4.76	0.20	11.7	0.46	1.66	0.00	0.00	0.0105	27.3	0.037	15.7	0.06	2.19	26.04	7.90	91.06
12/16	8	5.04	0.20	11.7	0.33	1.23	0.00	0.00	0.0112	29.1	0.039	16.6	0.06	1.66	27.70	6.20	97.26
12/17	9	5.07	0.25	11.8	0.28	1.10	0.00	0.00	0.0117	30.4	0.041	17.4	0.06	1.42	29.12	5.58	102.84
12/18	10	4.80	0.25	11.7	0.27	1.10	0.00	0.00	0.0123	31.9	0.044	18.7	0.07	1.30	30.42	5.28	108.12
12/19	11	5.07	0.20	11.6	0.22	0.96	0.00	0.00	0.0127	33.0	0.046	19.6	0.07	1.12	31.53	4.87	112.99
12/20	12	4.97	0.20	11.6	0.19	0.82	0.00	0.00	0.0131	34.0	0.047	20.0	0.08	0.94	32.48	4.08	117.06
12/21	13	4.85	0.25	11.7	0.16	0.80	0.00	0.00	0.0134	34.8	0.049	20.9	0.08	0.78	33.25	3.88	120.94
12/22	14	4.65	0.20	11.4	0.15	0.71	0.00	0.00	0.0137	35.6	0.050	21.3	0.09	0.70	33.95	3.30	124.24
12/23	15	4.70	0.25	11.6	0.16	0.70	0.00	0.00	0.0140	36.4	0.051	21.7	0.10	0.75	34.70	3.29	127.53
12/24	16	5.10	0.25	11.7	0.13	0.64	0.00	0.00	0.0142	36.9	0.053	22.6	0.10	0.66	35.37	3.26	130.80
12/25	17	4.95	0.25	11.7	0.12	0.57	0.00	0.00	0.0145	37.7	0.054	23.0	0.10	0.59	35.96	2.82	133.62
12/26	18	5.55	0.20	11.7	0.11	0.50	0.00	0.00	0.0147	38.2	0.055	23.4	0.10	0.61	36.57	2.78	136.39
12/27	19	5.09	0.20	11.8	0.10	0.52	0.00	0.00	0.0149	38.7	0.056	23.8	0.11	0.51	37.08	2.65	139.04
12/28	20	4.70	0.20	11.5	0.11	0.62	0.00	0.00	0.0151	39.2	0.057	24.3	0.12	0.52	37.60	2.91	141.95
12/29	21	5.05	0.25	11.9	0.09	0.54	0.00	0.00	0.0153	39.7	0.058	24.7	0.12	0.45	38.05	2.73	144.68
12/30	22	5.10	0.20	12.1	0.08	0.54	0.00	0.00	0.0155	40.3	0.059	25.1	0.13	0.41	38.46	2.75	147.44
12/31	23	4.96	0.25	11.7	0.08	0.51	0.00	0.00	0.0156	40.5	0.060	25.5	0.13	0.40	38.86	2.53	149.96
1/1	24	4.36	0.25	11.8	0.08	0.54	0.00	0.00	0.0158	41.0	0.061	26.0	0.13	0.35	39.21	2.35	152.32
1/2	25	5.05	0.20	11.8	0.08	0.56	0.00	0.01	0.0160	41.6	0.062	26.4	0.14	0.40	39.61	2.83	155.15
1/3	26	5.34	0.20	11.6	0.06	0.42	0.00	0.00	0.0161	41.8	0.063	26.8	0.15	0.32	39.93	2.19	157.34
1/4	27	4.67	0.25	11.9	0.07	0.46	0.00	0.00	0.0162	42.1	0.064	27.2	0.15	0.33	40.26	2.15	159.49
1/5	28	5.05	0.25	11.9	0.06	0.42	0.00	0.00	0.0163	42.3	0.065	27.7	0.15	0.30	40.56	2.12	161.61
1/6	29	4.56	0.20	11.9	0.06	0.41	0.00	0.00	0.0164	42.6	0.066	28.1	0.16	0.27	40.83	1.87	163.48
1/7	30	5.31	0.20	12.0	0.05	0.36	0.00	0.00	0.0166	43.1	0.067	28.5	0.17	0.27	41.10	1.91	165.39
1/8	31	4.77	0.25	12.0	0.05	0.37	0.00	0.00	0.0166	43.1	0.067	28.5	0.17	0.24	41.34	1.76	167.15
1/9	32	4.95	0.25	11.8	0.06	0.37	0.00	0.00	0.0168	43.6	0.068	28.9	0.17	0.30	41.63	1.83	168.99
1/10	33	4.82	0.20	12.0	0.05	0.37	0.00	0.00	0.0169	43.9	0.069	29.4	0.18	0.24	41.88	1.78	170.77
1/11	34	5.30	0.25	12.0	0.05	0.33	0.00	0.00	0.0170	44.2	0.069	29.4	0.18	0.27	42.14	1.75	172.52
1/12	35	4.12	0.25	12.0	0.06	0.41	0.00	0.00	0.0171	44.4	0.070	29.8	0.18	0.25	42.39	1.69	174.21
1/13	36	5.50	0.25	12.0	0.06	0.38	0.00	0.00	0.0172	44.7	0.071	30.2	0.18	0.33	42.72	2.09	176.30
1/14	37	4.70	0.20	11.9	0.06	0.38	0.00	0.00	0.0173	44.9	0.072	30.6	0.19	0.28	43.00	1.79	178.08
1/15	38	5.43	0.20	11.8	0.05	0.32	0.00	0.00	0.0174	45.2	0.072	30.6	0.20	0.27	43.27	1.74	179.82
1/16	39	4.58	0.25	11.9	0.05	0.35	0.00	0.00	0.0175	45.5	0.073	31.1	0.20	0.23	43.50	1.60	181.42
1/17	40	3.95	0.20	11.9	0.05	0.38	0.00	0.00	0.0176	45.7	0.074	31.5	0.21	0.20	43.70	1.50	182.92
1/18	41	5.78	0.20	12.0	0.05	0.32	0.00	0.00	0.0177	46.0	0.074	31.5	0.22	0.29	43.99	1.85	184.77
1/19	42	5.42	0.25	11.9	0.04	0.27	0.00	0.00	0.0178	46.2	0.075	31.9	0.21	0.22	44.20	1.46	186.24
1/20	43	3.97	0.20	11.8	0.05	0.32	0.00	0.00	0.0179	46.5	0.076	32.3	0.23	0.20	44.40	1.27	187.51
1/21	44	4.90	0.20	11.9	0.04	0.31	0.00	0.05	0.0180	46.8	0.076	32.3	0.24	0.20	44.60	1.52	189.03
1/22	45	5.95	0.25	11.8	0.03	0.24	0.00	0.00	0.0180	46.8	0.077	32.8	0.23	0.18	44.78	1.17	190.20
1/23	46	4.36	0.25	11.7	0.06	0.34	0.00	0.00	0.0181	47.0	0.077	32.8	0.24	0.26	45.04	1.48	191.68
1/24	47	5.19	0.25	11.8	0.04	0.29	0.00	0.00	0.0182	47.3	0.078	33.2	0.24	0.21	45.25	1.51	193.19
1/25	48	4.89	0.20	11.5	0.03	0.25	0.00	0.00	0.0183	47.5	0.078	33.2	0.24	0.15	45.39	1.22	194.41
1/26	49	5.29	0.15	11.8	0.03	0.24	0.00	0.01	0.0183	47.5	0.079	33.6	0.26	0.16	45.55	1.27	195.68
1/27	50	4.90	0.25	11.7	0.04	0.26	0.00	0.01	0.0184	47.8	0.079	33.6	0.26	0.20	45.75	1.22	196.90
1/28	51	3.41	0.25	11.6	0.04	0.34	0.00	0.00	0.0185	48.1	0.080	34.0	0.27	0.14	45.88	1.11	198.01
1/29	52	6.45	0.20	11.6	0.03	0.27	0.00	0.00	0.0186	48.3	0.080	34.0	0.27	0.19	46.08	1.74	199.75

3439 P-1

Ore Charge				NaCN added	123.32	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	0.64	lb/ton ore				Au	Ag
72.42	kg	0.072	mt								
159.66	lb	0.0798	ton		12.0	lbs Cement/ton of ore					
									Avg. Head	0.027	0.22
									Head Screen	0.0516	0.27
									Tail Screen	0.0172	0.135
									Tail Assay		

Daily Column Leach Test Data,
Sample I.D. DA-001 (LG)
Test Conditions,

Feed Size, 80% minus 1"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
1/30	53	4.96	0.25	11.7	0.03	0.24	0.00	0.00	0.0186	48.3	0.081	34.5	0.27	0.15	46.23	1.19	200.94
1/31	54	4.86	0.25	11.8	0.03	0.25	0.00	0.00	0.0187	48.6	0.081	34.5	0.27	0.15	46.37	1.22	202.16
2/1	55	4.80	0.20	11.8	0.03	0.23	0.00	0.01	0.0187	48.6	0.082	34.9	0.28	0.14	46.52	1.10	203.26
2/2	56	4.20	0.20	11.7	0.04	0.23	0.00	0.00	0.0188	48.8	0.082	34.9	0.29	0.17	46.68	0.92	204.18
2/3	57	4.87	0.25	11.8	0.03	0.19	0.00	0.00	0.0189	49.1	0.083	35.3	0.30	0.15	46.83	0.93	205.10
2/4	58	5.40	0.25	11.8	0.03	0.15	0.00	0.00	0.0189	49.1	0.083	35.3	0.29	0.16	46.99	0.81	205.91
2/5	59	4.99	0.25	11.9	0.03	0.15	0.00	0.00	0.0190	49.4	0.083	35.3	0.29	0.15	47.14	0.75	206.66
2/6	60	5.18	0.20	11.7	0.03	0.20	0.00	0.01	0.0190	49.4	0.084	35.7	0.30	0.16	47.30	1.04	207.70
2/7	61	4.90	0.20	11.8	0.03	0.20	0.00	0.00	0.0191	49.6	0.084	35.7	0.31	0.15	47.44	0.93	208.63
2/8	62	5.11	0.25	11.8	0.03	0.14	0.00	0.00	0.0192	49.9	0.084	35.7	0.31	0.15	47.60	0.72	209.34
2/9	63	4.97	0.20	11.7	0.03	0.18	0.00	0.00	0.0192	49.9	0.085	36.2	0.32	0.15	47.75	0.89	210.24
2/10	64	4.16	0.20	11.9	0.03	0.15	0.00	0.00	0.0193	50.1	0.085	36.2	0.33	0.12	47.87	0.62	210.86
2/11	65	5.55	0.25	11.8	0.03	0.11	0.00	0.00	0.0193	50.1	0.085	36.2	0.33	0.17	48.04	0.61	211.47
2/12	66	4.95	0.20	11.4	0.03	0.11	0.01	0.00	0.0194	50.4	0.085	36.2	0.33	0.15	48.19	0.54	212.01
2/13	67	5.04	0.15	11.4	0.03	0.10	0.00	0.00	0.0194	50.4	0.086	36.6	0.35	0.10	48.29	0.50	212.52
2/14	68	4.67	0.20	11.5	0.03	0.14	0.00	0.00	0.0195	50.6	0.086	36.6	0.36	0.14	48.43	0.65	213.17
2/15	69	4.40	0.20	11.4	0.03	0.17	0.00	0.00	0.0196	50.9	0.086	36.6	0.37	0.13	48.56	0.75	213.92
2/16	70	5.72	0.25	11.3	0.02	0.09	0.00	0.00	0.0196	50.9	0.086	36.6	0.37	0.11	48.67	0.51	214.44
2/17	71	4.84	0.20	11.3	0.02	0.10	0.00	0.00	0.0196	50.9	0.087	37.0	0.37	0.10	48.77	0.48	214.92
2/18	72	4.60	0.20	11.4	0.02	0.12	0.00	0.00	0.0197	51.2	0.087	37.0	0.38	0.09	48.86	0.55	215.47
2/19	73	5.20	0.20	11.4	0.02	0.10	0.00	0.00	0.0197	51.2	0.087	37.0	0.39	0.10	48.97	0.52	215.99
2/20	74	4.29	0.25	11.2	0.03	0.15	0.00	0.00	0.0198	51.4	0.087	37.0	0.40	0.13	49.09	0.64	216.64
2/21	75	5.55	0.25	11.4	0.02	0.13	0.00	0.00	0.0198	51.4	0.088	37.4	0.39	0.11	49.20	0.72	217.36
2/22	76	5.25	0.25	11.3	0.02	0.15	0.00	0.00	0.0199	51.7	0.088	37.4	0.39	0.11	49.31	0.79	218.14
2/23	77		Rest Cycle														
3/8	90																
3/9	91	4.21	0.15	11.0	0.21	1.38	0.00	0.01	0.0202	52.5	0.090	38.3	0.41	0.88	50.19	5.81	223.95
3/10	92	4.97	0.20	11.4	0.06	0.42	0.00	0.00	0.0203	52.7	0.091	38.7	0.42	0.30	50.49	2.04	225.99
3/11	93	5.01	0.20	11.4	0.03	0.19	0.00	0.00	0.0204	53.0	0.091	38.7	0.43	0.15	50.64	0.95	226.94
3/12	94	5.01	0.20	11.4	0.02	0.15	0.00	0.01	0.0204	53.0	0.092	39.1	0.43	0.10	50.74	0.75	227.69
3/13	95	4.97	0.20	11.4	0.02	0.14	0.00	0.00	0.0205	53.2	0.092	39.1	0.44	0.10	50.84	0.64	228.34
3/14	96	5.08	0.20	11.2	0.02	0.13	0.00	0.01	0.0205	53.2	0.092	39.1	0.45	0.10	50.94	0.66	229.00
3/15	97	3.97	0.20	11.4	0.02	0.17	0.00	0.01	0.0205	53.2	0.092	39.1	0.46	0.08	51.02	0.62	229.62
3/16	98		Rest Cycle														
3/29	111																
3/30	112	5.45	0.10	10.7	0.08	0.61	0.00	0.02	0.0207	53.8	0.094	40.0	0.48	0.44	51.46	3.32	232.95
3/31	113	4.78	0.15	11.2	0.03	0.30	0.00	0.01	0.0208	54.0	0.094	40.0	0.50	0.14	51.60	1.33	234.28
4/1	114	5.13	0.20	11.0	0.01	0.13	0.00	0.00	0.0208	54.0	0.095	40.4	0.51	0.05	51.65	0.62	234.90
4/2	115	4.75	0.20	10.8	0.02	0.17	0.00	0.01	0.0208	54.0	0.095	40.4	0.51	0.10	51.75	0.81	235.70
4/3	116	4.89	0.15	11.1	0.02	0.13	0.00	0.00	0.0209	54.3	0.095	40.4	0.53	0.10	51.85	0.58	236.29
4/4	117	2.00	0.20	10.7	0.02	0.14	0.00	0.01	0.0209	54.3	0.095	40.4	0.53	0.04	51.89	0.28	236.57
4/5	118	4.99	0.15	11.1	0.02	0.18	0.00	0.01	0.0209	54.3	0.096	40.9	0.55	0.10	51.99	0.85	237.41
4/6	119		Rest Cycle														
4/19	132																
4/20	133	4.68	0.10	10.7	0.04	0.41	0.00	0.01	0.0210	54.5	0.096	40.9	0.57	0.19	52.17	1.92	239.33
4/21	134	4.15	0.15	11.3	0.01	0.11	0.00	0.00	0.0210	54.5	0.097	41.3	0.59	0.04	52.22	0.41	239.74
4/22	135	5.54	0.15	11.4	0.01	0.13	0.00	0.01	0.0211	54.8	0.097	41.3	0.60	0.06	52.27	0.72	240.46
4/23	136	4.50	0.20	10.9	0.01	0.12	0.00	0.00	0.0211	54.8	0.097	41.3	0.61	0.05	52.32	0.49	240.95
4/24	137	5.27	0.20	10.8	0.01	0.11	0.00	0.01	0.0211	54.8	0.097	41.3	0.62	0.05	52.37	0.58	241.53
4/25	138	4.81	0.15	10.8	0.02	0.14	0.00	0.01	0.0211	54.8	0.098	41.7	0.63	0.10	52.46	0.62	242.15
4/26	139	5.03	0.20	10.8	0.00	0.12	0.00	0.01	0.0211	54.8	0.098	41.7	0.64	0.00	52.46	0.55	242.70
4/27	140		Rest Cycle														

3439 P-1

Ore Charge				NaCN added	123.32	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	0.64	lb/ton ore				Au	Ag
72.42	kg	0.072	mt								
159.66	lb	0.0798	ton		12.0	lbs Cement/ton of ore			Avg. Head	0.027	0.22
									Head Screen	0.0516	0.27
									Tail Screen	0.0172	0.135
									Tail Assay		

Daily Column Leach Test Data,
Sample I.D. DA-001 (LG)
Test Conditions,

Feed Size, 80% minus 1"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
5/10	153																
5/11	154	4.66	0.05	10.8	0.07	0.54	0.00	0.01	0.0213	55.3	0.099	42.1	0.67	0.33	52.79	2.52	245.22
			Rinse Cycle														
5/12	155	3.49	0.15	11.6	0.02	0.30	0.00	0.02	0.0213	55.3	0.099	42.1	0.67	0.07	52.86	1.05	246.27
5/13	156	6.44	0.05	11.2	0.00	0.09	0.00	0.02	0.0213	55.3	0.099	42.1	0.66	0.00	52.86	0.48	246.74
5/14	157	4.69	0.00	11.5	0.00	0.06	0.00	0.04	0.0213	55.3	0.099	42.1	0.66	0.00	52.86	0.28	247.03
5/15	158	4.89	0.00	11.6	0.00	0.04	0.00	0.05	0.0213	55.3	0.100	42.6	0.65	0.00	52.86	0.20	247.22
5/16	159	4.54	0.00	11.5	0.00	0.02	0.02	0.05	0.0213	55.3	0.100	42.6	0.64	0.00	52.86	0.09	247.31
			Drain Down														
								Extracted, oz/ton of ore	**0.0213**	**55.3**	**0.100**	**42.6**					
								Estimated Tail , oz/ton of ore	**0.0172**		**0.135**						
								Calculated Head, oz/ton of ore	**0.0385**		**0.235**						

3439 P-2

Ore Charge				NaCN added	124.16	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	2.31	lb/ton ore				Au	Ag
71.60	kg	0.072	mt								
157.85	lb	0.0789	ton		12.0	lbs Cement/ton of ore				Avg. Head	0.054	0.80
										Head Screen	0.0589	0.80
										Tail Screen	0.0033	0.425
										Tail Assay		

Daily Column Leach Test Data,
Sample I.D. DP-004 (MG)
Test Conditions,

Feed Size, 80% minus 1"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
12/9	1												0.00	0.00	0.00	0.00	0.00
12/10	2	2.27	0.05	9.0	4.34	1.01	0.01	0.00	0.0040	7.6	0.001	0.1	0.03	9.85	9.85	2.29	2.29
12/11	3	4.15	0.05	10.2	8.67	27.90	0.00	0.00	0.0186	35.2	0.048	6.0	0.06	35.93	45.78	115.79	118.08
12/12	4	5.43	0.10	10.1	5.24	15.90	0.00	0.00	0.0302	57.1	0.083	10.3	0.08	28.45	74.23	86.34	204.41
12/13	5	5.29	0.15	10.1	2.69	9.95	0.00	0.01	0.0360	68.1	0.105	13.0	0.10	14.23	88.46	52.64	257.05
12/14	6	5.00	0.10	10.2	1.46	6.40	0.00	0.00	0.0390	73.7	0.118	14.6	0.12	7.30	95.76	31.95	289.00
12/15	7	4.71	0.10	10.1	0.78	4.44	0.00	0.00	0.0405	76.6	0.126	15.6	0.14	3.67	99.44	20.91	309.91
12/16	8	5.08	0.15	10.2	0.60	4.46	0.00	0.00	0.0417	78.8	0.135	16.7	0.16	3.05	102.49	22.66	332.57
12/17	9	5.07	0.15	10.4	0.46	4.24	0.00	0.01	0.0427	80.7	0.144	17.9	0.17	2.33	104.82	21.50	354.07
12/18	10	4.76	0.15	10.1	0.37	3.96	0.00	0.00	0.0434	82.0	0.152	18.9	0.19	1.76	106.58	18.80	372.86
12/19	11	5.10	0.15	10.3	0.31	3.50	0.00	0.01	0.0441	83.4	0.159	19.7	0.20	1.58	108.16	17.85	390.71
12/20	12	4.94	0.10	9.9	0.24	3.06	0.00	0.01	0.0445	84.1	0.165	20.5	0.22	1.19	109.35	15.07	405.78
12/21	13	4.80	0.10	10.2	0.19	3.11	0.00	0.01	0.0449	84.9	0.171	21.2	0.24	0.91	110.26	14.88	420.66
12/22	14	4.63	0.10	9.7	0.15	2.57	0.00	0.01	0.0452	85.4	0.176	21.8	0.27	0.69	110.95	11.85	432.50
12/23	15	4.75	0.10	10.0	0.15	2.43	0.00	0.01	0.0455	86.0	0.181	22.5	0.29	0.71	111.67	11.49	444.00
12/24	16	5.14	0.10	10.1	0.12	2.39	0.00	0.01	0.0457	86.4	0.186	23.1	0.31	0.62	112.28	12.23	456.23
12/25	17	4.74	0.10	10.2	0.11	2.16	0.00	0.00	0.0460	87.0	0.190	23.6	0.33	0.52	112.80	10.19	466.42
12/26	18	5.84	0.10	10.1	0.10	1.99	0.00	0.00	0.0462	87.3	0.195	24.2	0.35	0.58	113.39	11.62	478.04
12/27	19	5.13	0.10	10.2	0.09	1.99	0.00	0.00	0.0464	87.7	0.199	24.7	0.37	0.46	113.85	10.21	488.25
12/28	20	4.59	0.10	10.1	0.10	2.23	0.00	0.01	0.0466	88.1	0.203	25.2	0.40	0.46	114.31	10.24	498.48
12/29	21	5.11	0.05	10.1	0.08	2.10	0.00	0.00	0.0467	88.3	0.207	25.7	0.43	0.41	114.72	10.68	509.16
12/30	22	5.17	0.10	10.4	0.07	1.96	0.00	0.00	0.0469	88.7	0.212	26.3	0.45	0.36	115.08	10.13	519.30
12/31	23	5.00	0.10	10.1	0.07	1.97	0.00	0.01	0.0470	88.8	0.216	26.8	0.47	0.35	115.43	9.85	529.15
1/1	24	4.63	0.10	10.1	0.06	2.05	0.00	0.00	0.0471	89.0	0.219	27.2	0.49	0.28	115.71	9.44	538.59
1/2	25	4.58	0.10	10.1	0.06	2.11	0.00	0.00	0.0472	89.2	0.223	27.7	0.52	0.27	115.98	9.66	548.25
1/3	26	5.59	0.05	9.9	0.05	1.77	0.00	0.01	0.0474	89.6	0.227	28.2	0.54	0.28	116.26	9.89	558.14
1/4	27	4.62	0.15	10.5	0.05	1.77	0.00	0.01	0.0475	89.8	0.231	28.7	0.56	0.23	116.49	8.13	566.27
1/5	28	5.10	0.10	10.4	0.04	1.68	0.00	0.01	0.0475	89.8	0.234	29.0	0.58	0.20	116.70	8.52	574.79
1/6	29	4.54	0.10	10.2	0.04	1.67	0.00	0.01	0.0476	90.0	0.237	29.4	0.60	0.18	116.88	7.53	582.32
1/7	30	5.39	0.15	10.3	0.03	1.40	0.00	0.01	0.0477	90.2	0.240	29.8	0.62	0.16	117.04	7.50	589.81
1/8	31	4.75	0.10	10.4	0.03	1.43	0.00	0.00	0.0477	90.2	0.243	30.1	0.64	0.14	117.18	6.74	596.56
1/9	32	5.03	0.05	10.4	0.04	1.45	0.00	0.00	0.0478	90.4	0.246	30.5	0.67	0.20	117.38	7.29	603.85
1/10	33	4.77	0.15	10.2	0.03	1.31	0.00	0.00	0.0479	90.5	0.249	30.9	0.68	0.14	117.53	6.25	610.10
1/11	34	5.41	0.10	10.5	0.02	1.41	0.00	0.00	0.0479	90.5	0.252	31.3	0.70	0.11	117.63	7.63	617.73
1/12	35	4.10	0.05	10.2	0.04	1.60	0.00	0.01	0.0480	90.7	0.254	31.5	0.73	0.16	117.80	6.56	624.29
1/13	36	5.73	0.10	10.5	0.03	1.38	0.00	0.01	0.0481	90.9	0.258	32.0	0.75	0.17	117.97	7.86	632.14
1/14	37	4.49	0.10	10.3	0.03	1.43	0.00	0.01	0.0481	90.9	0.260	32.3	0.78	0.13	118.11	6.37	638.51
1/15	38	5.63	0.10	10.1	0.03	1.49	0.00	0.02	0.0482	91.1	0.264	32.8	0.80	0.17	118.27	8.34	646.85
1/16	39	4.69	0.10	10.3	0.03	1.43	0.00	0.02	0.0482	91.1	0.266	33.0	0.82	0.14	118.41	6.60	653.45
1/17	40	4.45	0.10	10.2	0.03	1.49	0.00	0.00	0.0483	91.3	0.269	33.4	0.84	0.13	118.55	6.53	659.98
1/18	41	5.28	0.10	10.4	0.02	1.42	0.00	0.01	0.0483	91.3	0.272	33.7	0.86	0.11	118.65	7.50	667.48
1/19	42	5.38	0.10	10.4	0.02	1.18	0.00	0.01	0.0484	91.5	0.274	34.0	0.89	0.11	118.76	6.30	673.78
1/20	43	4.74	0.15	10.2	0.02	1.25	0.00	0.01	0.0484	91.5	0.277	34.4	0.90	0.09	118.86	5.87	679.65
1/21	44	5.01	0.10	10.3	0.02	1.27	0.00	0.15	0.0485	91.7	0.279	34.6	0.92	0.10	118.96	6.31	685.96
1/22	45	5.36	0.15	10.2	0.02	1.08	0.00	0.01	0.0485	91.7	0.281	34.9	0.94	0.11	119.06	5.02	690.99
1/23	46	4.43	0.10	10.1	0.02	1.30	0.00	0.01	0.0485	91.7	0.284	35.2	0.96	0.09	119.15	5.71	696.70
1/24	47	5.22	0.10	10.2	0.04	1.37	0.00	0.01	0.0486	91.9	0.287	35.6	0.98	0.21	119.36	7.10	703.80
1/25	48	4.36	0.10	10.0	0.02	1.09	0.00	0.01	0.0487	92.1	0.289	35.9	1.00	0.09	119.45	4.70	708.50
1/26	49	5.60	0.15	10.2	0.02	1.16	0.00	0.01	0.0487	92.1	0.291	36.1	1.02	0.11	119.56	6.45	714.94
1/27	50	4.93	0.15	10.2	0.02	1.12	0.00	0.01	0.0487	92.1	0.293	36.4	1.03	0.10	119.66	5.47	720.41
1/28	51	4.63	0.10	10.1	0.02	1.30	0.00	0.00	0.0488	92.2	0.296	36.7	1.05	0.09	119.75	5.97	726.38
1/29	52	5.41	0.05	10.2	0.02	1.10	0.00	0.00	0.0488	92.2	0.298	37.0	1.08	0.11	119.86	5.95	732.33

3439 P-2

Ore Charge				NaCN added	124.16	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	2.31	lb/ton ore				Au	Ag
71.60	kg	0.072	mt								
157.85	lb	0.0789	ton		12.0	lbs Cement/ton of ore				Avg. Head	0.054	0.80
										Head Screen	0.0589	0.80
										Tail Screen	0.0033	0.425
										Tail Assay		

Daily Column Leach Test Data,
Sample I.D. DP-004 (MG)
Test Conditions,

Feed Size, 80% minus 1"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
1/30	53	5.05	0.10	10.1	0.01	1.02	0.00	0.00	0.0488	92.2	0.300	37.2	1.10	0.05	119.91	5.15	737.48
1/31	54	4.86	0.10	10.3	0.02	1.07	0.00	0.01	0.0489	92.4	0.303	37.6	1.13	0.10	120.01	5.20	742.68
2/1	55	4.80	0.10	10.0	0.02	1.14	0.00	0.01	0.0489	92.4	0.305	37.8	1.15	0.10	120.10	5.42	748.10
2/2	56	4.37	0.05	10.2	0.02	1.13	0.00	0.00	0.0490	92.6	0.307	38.1	1.18	0.09	120.19	4.89	752.99
2/3	57	5.24	0.10	10.3	0.02	1.07	0.00	0.00	0.0490	92.6	0.309	38.3	1.20	0.10	120.30	5.61	758.60
2/4	58	5.36	0.10	10.3	0.01	0.94	0.00	0.00	0.0490	92.6	0.311	38.6	1.22	0.05	120.35	5.04	763.64
2/5	59	4.96	0.10	10.3	0.01	0.97	0.00	0.00	0.0490	92.6	0.313	38.8	1.24	0.05	120.40	4.81	768.45
2/6	60	5.09	0.10	10.2	0.01	0.97	0.00	0.02	0.0491	92.8	0.315	39.1	1.26	0.05	120.45	4.94	773.38
2/7	61	5.04	0.05	10.1	0.01	0.91	0.00	0.00	0.0491	92.8	0.317	39.3	1.29	0.05	120.50	4.48	777.87
2/8	62	4.72	0.05	10.1	0.01	0.84	0.00	0.00	0.0491	92.8	0.318	39.5	1.32	0.05	120.55	3.96	781.83
2/9	63	5.22	0.00	9.9	0.01	0.81	0.00	0.00	0.0491	92.8	0.320	39.7	1.36	0.05	120.60	4.23	786.06
2/10	64	3.80	0.05	10.1	0.01	0.71	0.00	0.00	0.0491	92.8	0.321	39.8	1.39	0.04	120.64	2.70	788.76
2/11	65	5.87	0.00	10.2	0.01	0.66	0.00	0.00	0.0492	93.0	0.323	40.1	1.42	0.06	120.70	3.87	792.63
2/12	66	4.89	0.00	9.9	0.01	0.43	0.01	0.00	0.0492	93.0	0.324	40.2	1.46	0.05	120.74	2.10	794.74
2/13	67	5.17	0.00	9.9	0.01	0.34	0.00	0.00	0.0492	93.0	0.324	40.2	1.50	0.00	120.75	1.76	796.49
2/14	68	4.61	0.00	9.9	0.00	0.29	0.00	0.00	0.0492	93.0	0.325	40.3	1.53	0.00	120.75	1.34	797.83
2/15	69	5.23	0.00	10.0	0.00	0.23	0.00	0.00	0.0492	93.0	0.325	40.3	1.57	0.00	120.75	1.20	799.03
2/16	70	5.03	0.00	10.0	0.00	0.15	0.00	0.00	0.0492	93.0	0.326	40.4	1.60	0.00	120.75	0.75	799.79
2/17	71	4.92	0.00	9.9	0.00	0.16	0.00	0.00	0.0492	93.0	0.326	40.4	1.64	0.00	120.75	0.79	800.58
2/18	72	4.69	0.00	9.9	0.00	0.13	0.00	0.00	0.0492	93.0	0.326	40.4	1.67	0.00	120.75	0.61	801.19
2/19	73	5.14	0.05	9.9	0.00	0.13	0.00	0.00	0.0492	93.0	0.327	40.6	1.70	0.00	120.75	0.67	801.85
2/20	74	4.11	0.00	9.6	0.00	0.16	0.00	0.00	0.0492	93.0	0.327	40.6	1.74	0.00	120.75	0.66	802.51
2/21	75	5.57	0.00	9.8	0.00	0.16	0.00	0.00	0.0492	93.0	0.327	40.6	1.77	0.00	120.75	0.89	803.40
2/22	76	5.22	0.00	9.8	0.00	0.14	0.00	0.00	0.0492	93.0	0.328	40.7	1.81	0.00	120.75	0.73	804.13
2/23	77		Rest Cycle														
3/8	90																
3/9	91	4.57	0.00	9.1	0.00	0.42	0.00	0.02	0.0492	93.0	0.328	40.7	1.85	0.00	120.75	1.92	806.05
3/10	92	5.04	0.05	10.0	0.00	0.92	0.00	0.00	0.0492	93.0	0.330	40.9	1.87	0.00	120.75	4.53	810.59
3/11	93	4.98	0.15	10.1	0.01	0.86	0.00	0.01	0.0492	93.0	0.332	41.2	1.89	0.05	120.80	4.28	814.87
3/12	94	5.04	0.15	10.1	0.01	0.92	0.00	0.02	0.0492	93.0	0.334	41.4	1.90	0.05	120.85	4.59	819.46
3/13	95	4.86	0.10	10.1	0.01	0.92	0.00	0.02	0.0492	93.0	0.336	41.7	1.93	0.05	120.89	4.37	823.83
3/14	96	5.09	0.10	10.0	0.01	0.83	0.00	0.03	0.0493	93.2	0.337	41.8	1.95	0.05	120.95	4.12	827.95
3/15	97	3.70	0.15	10.1	0.01	0.95	0.00	0.02	0.0493	93.2	0.339	42.1	1.97	0.04	120.98	3.36	831.31
3/16	98		Rest Cycle														
3/29	111																
3/30	112	5.94	0.00	9.4	0.04	3.20	0.00	0.04	0.0494	93.4	0.346	42.9	2.00	0.24	121.22	19.01	850.32
3/31	113	4.71	0.00	9.9	0.03	2.52	0.00	0.03	0.0494	93.4	0.351	43.5	2.04	0.14	121.36	11.67	861.98
4/1	114	5.19	0.10	9.9	0.00	0.89	0.00	0.03	0.0494	93.4	0.353	43.8	2.06	0.00	121.36	4.47	866.45
4/2	115	4.74	0.15	9.7	0.00	0.98	0.00	0.04	0.0494	93.4	0.355	44.0	2.08	0.00	121.36	4.49	870.94
4/3	116	5.13	0.10	10.0	0.00	0.87	0.00	0.03	0.0494	93.4	0.357	44.3	2.10	0.00	121.36	4.26	875.20
4/4	117	5.22	0.10	9.9	0.00	0.74	0.00	0.04	0.0494	93.4	0.358	44.4	2.12	0.00	121.36	3.71	878.91
4/5	118	4.51	0.10	9.9	0.00	0.79	0.00	0.02	0.0494	93.4	0.359	44.5	2.14	0.00	121.36	3.36	882.27
4/6	119		Rest Cycle														
4/19	132																
4/20	133	4.52	0.00	9.2	0.02	1.90	0.00	0.04	0.0495	93.6	0.363	45.0	2.18	0.09	121.45	8.59	890.86
4/21	134	4.98	0.10	10.0	0.00	0.47	0.00	0.03	0.0495	93.6	0.364	45.2	2.20	0.00	121.45	2.14	892.99
4/22	135	3.68	0.10	10.2	0.01	1.00	0.00	0.03	0.0495	93.6	0.365	45.3	2.23	0.04	121.49	3.53	896.52
4/23	136	6.15	0.10	9.9	0.00	0.78	0.00	0.05	0.0495	93.6	0.367	45.5	2.24	0.00	121.49	4.64	901.17
4/24	137	5.19	0.20	9.8	0.00	0.59	0.00	0.06	0.0495	93.6	0.368	45.7	2.25	0.00	121.49	2.81	903.97
4/25	138	4.58	0.15	9.8	0.01	0.81	0.00	0.06	0.0495	93.6	0.370	45.9	2.27	0.05	121.53	3.40	907.38
4/26	139	5.22	0.10	9.8	0.00	0.82	0.00	0.07	0.0495	93.6	0.371	46.0	2.29	0.00	121.53	3.97	911.35
4/27	140		Rest Cycle														

3439 P-2

Ore Charge				NaCN added	124.16	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	2.31	lb/ton ore				Au	Ag
71.60	kg	0.072	mt								
157.85	lb	0.0789	ton		12.0	lbs Cement/ton of ore					
									Avg. Head	0.054	0.80
									Head Screen	0.0589	0.80
									Tail Screen	0.0033	0.425
									Tail Assay		

Daily Column Leach Test Data,

Sample I.D. DP-004 (MG)

Test Conditions,

Feed Size, 80% minus 1"

			Pregnant Solution Analyses				Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
5/10	153																
5/11	154	4.79	0.00	9.5	0.03	2.13	0.00	0.06	0.0496	93.8	0.375	46.5	2.32	0.14	121.68	10.20	921.55
			Rinse Cycle														
5/12	155	4.19	0.05	10.3	0.00	1.59	0.00	0.05	0.0496	93.8	0.378	46.9	2.32	0.00	121.68	6.66	928.22
5/13	156	5.69	0.05	10.0	0.00	0.70	0.00	0.02	0.0496	93.8	0.380	47.1	2.32	0.00	121.68	3.73	931.94
5/14	157	4.53	0.00	10.4	0.00	0.26	0.00	0.12	0.0496	93.8	0.380	47.1	2.32	0.00	121.68	1.18	933.12
5/15	158	4.90	0.00	10.5	0.00	0.15	0.00	0.19	0.0496	93.8	0.380	47.1	2.32	0.00	121.68	0.74	933.86
5/16	159	4.55	0.00	10.4	0.00	0.07	0.00	0.18	0.0496	93.8	0.381	47.3	2.31	0.00	121.68	0.32	934.17
			Drain Down														
									0.0496	**93.8**	**0.381**	**47.3**					
									0.0033		**0.425**						
									0.0529		**0.806**						

Extracted, oz/ton of ore
Estimated Tail , oz/ton of ore
Calculated Head, oz/ton of ore

3439 P-3

Ore Charge							
70.89 kg	0.071 mt	NaCN added	123.04 g	NaCN	0.50 lb/ton solution		
156.28 lb	0.0781 ton	NaCN Consumption	1.47 lb/ton ore				

12.0 lbs Cement/ton of ore

	oz/ton ore Au	oz/ton ore Ag
Avg. Head	0.100	0.75
Head Screen	0.1216	0.86
Tail Screen	0.0331	0.469
Tail Assay		

Daily Column Leach Test Data,
Sample I.D. DP-005 (MG)
Test Conditions,

Feed Size, 80% minus 1"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
Date	Days Leached	Vol. l.	NaCN Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
12/9	1												0.00	0.00	0.00	0.00	0.00
12/10	2	2.66	0.00	10.1	6.93	8.95	0.00	0.00	0.0076	5.6	0.010	1.2	0.04	18.43	18.43	23.81	23.81
12/11	3	4.00	0.10	11.3	17.65	27.90	0.00	0.01	0.0366	27.2	0.056	6.9	0.06	70.60	89.03	111.60	135.41
12/12	4	5.34	0.20	11.1	8.13	13.20	0.00	0.00	0.0545	40.5	0.085	10.5	0.07	43.41	132.45	70.44	205.84
12/13	5	5.56	0.25	11.1	3.85	7.90	0.00	0.00	0.0633	47.0	0.103	12.7	0.06	21.41	153.85	43.92	249.77
12/14	6	5.06	0.15	11.2	2.62	5.08	0.00	0.00	0.0688	51.1	0.113	14.0	0.08	13.26	167.11	25.70	275.47
12/15	7	4.42	0.15	11.1	1.88	4.40	0.00	0.00	0.0722	53.6	0.121	14.9	0.10	8.31	175.42	19.45	294.92
12/16	8	5.14	0.20	11.0	1.38	3.94	0.00	0.00	0.0751	55.8	0.130	16.0	0.10	7.09	182.51	20.25	315.17
12/17	9	5.17	0.20	11.2	1.08	3.84	0.00	0.00	0.0774	57.5	0.138	17.0	0.11	5.58	188.10	19.85	335.03
12/18	10	4.57	0.20	11.0	0.93	3.54	0.00	0.01	0.0791	58.8	0.145	17.9	0.12	4.25	192.35	16.18	351.20
12/19	11	5.22	0.15	11.0	0.78	3.20	0.00	0.00	0.0808	60.0	0.151	18.6	0.13	4.07	196.42	16.65	367.86
12/20	12	4.93	0.20	10.9	0.64	2.96	0.00	0.01	0.0821	61.0	0.157	19.4	0.14	3.16	199.57	14.59	382.45
12/21	13	4.71	0.20	11.0	0.54	3.02	0.00	0.01	0.0832	61.8	0.163	20.1	0.15	2.54	202.12	14.17	396.62
12/22	14	4.68	0.15	10.7	0.45	2.62	0.00	0.01	0.0840	62.4	0.168	20.7	0.17	2.11	204.22	12.21	408.83
12/23	15	4.68	0.20	11.1	0.44	2.27	0.00	0.02	0.0849	63.1	0.173	21.4	0.18	2.06	206.28	10.57	419.41
12/24	16	5.09	0.20	11.1	0.38	2.25	0.00	0.01	0.0857	63.7	0.177	21.9	0.19	1.93	208.22	11.35	430.76
12/25	17	4.81	0.15	10.9	0.36	2.08	0.00	0.00	0.0864	64.2	0.181	22.3	0.20	1.73	209.95	9.95	440.71
12/26	18	5.92	0.15	11.0	0.31	1.78	0.00	0.01	0.0871	64.7	0.186	23.0	0.21	1.84	211.78	10.54	451.25
12/27	19	5.28	0.20	11.3	0.29	1.94	0.00	0.00	0.0878	65.2	0.190	23.5	0.22	1.53	213.32	10.19	461.44
12/28	20	4.35	0.20	10.8	0.31	2.24	0.00	0.01	0.0883	65.6	0.194	24.0	0.23	1.35	214.66	9.74	471.18
12/29	21	5.17	0.20	11.2	0.27	1.97	0.00	0.00	0.0889	66.0	0.198	24.4	0.24	1.40	216.06	10.13	481.32
12/30	22	5.30	0.15	11.4	0.22	1.75	0.00	0.00	0.0894	66.4	0.202	24.9	0.25	1.17	217.23	9.28	490.59
12/31	23	5.01	0.20	11.0	0.21	1.65	0.00	0.01	0.0898	66.7	0.205	25.3	0.26	1.05	218.28	8.27	498.86
1/1	24	4.39	0.20	10.1	0.20	1.71	0.00	0.01	0.0902	67.0	0.208	25.7	0.27	0.88	219.16	7.46	506.31
1/2	25	4.86	0.15	11.2	0.23	1.88	0.00	0.02	0.0906	67.3	0.212	26.2	0.29	1.12	220.27	9.09	515.40
1/3	26	5.56	0.15	11.0	0.17	1.42	0.00	0.02	0.0910	67.6	0.215	26.5	0.30	0.95	221.22	7.79	523.19
1/4	27	3.98	0.15	11.3	0.19	1.63	0.00	0.02	0.0913	67.8	0.218	26.9	0.32	0.76	221.98	6.39	529.58
1/5	28	5.66	0.20	11.2	0.17	1.49	0.00	0.02	0.0917	68.1	0.221	27.3	0.32	0.96	222.94	8.33	537.91
1/6	29	4.49	0.20	11.2	0.16	1.40	0.00	0.02	0.0920	68.4	0.224	27.7	0.33	0.72	223.66	6.18	544.09
1/7	30	5.51	0.15	11.3	0.14	1.25	0.00	0.02	0.0923	68.6	0.227	28.0	0.35	0.77	224.43	6.79	550.88
1/8	31	4.60	0.15	11.4	0.15	1.24	0.00	0.01	0.0926	68.8	0.229	28.3	0.36	0.69	225.12	5.60	556.48
1/9	32	4.98	0.20	11.2	0.13	1.24	0.00	0.02	0.0929	69.0	0.231	28.5	0.37	0.65	225.76	6.12	562.61
1/10	33	4.73	0.15	11.0	0.13	1.26	0.00	0.01	0.0931	69.2	0.234	28.9	0.39	0.61	226.38	5.86	568.46
1/11	34	1.41	0.15	10.4	0.12	1.21	0.00	0.01	0.0932	69.2	0.235	29.0	0.38	0.17	226.55	1.70	570.16
1/12	35	3.69	0.15	11.2	0.22	2.07	0.00	0.02	0.0935	69.5	0.238	29.4	0.41	0.81	227.36	7.59	577.75
1/13	36	5.71	0.15	11.4	0.16	1.52	0.00	0.02	0.0939	69.8	0.241	29.8	0.42	0.91	228.27	8.58	586.33
1/14	37	4.63	0.15	11.2	0.12	1.18	0.00	0.02	0.0942	70.0	0.243	30.0	0.43	0.56	228.83	5.36	591.69
1/15	38	5.65	0.10	10.9	0.11	1.14	0.00	0.03	0.0944	70.1	0.246	30.4	0.45	0.62	229.45	6.34	598.03
1/16	39	4.33	0.20	11.2	0.11	1.21	0.00	0.03	0.0946	70.3	0.248	30.6	0.47	0.48	229.93	5.09	603.11
1/17	40	4.36	0.15	11.1	0.12	1.30	0.00	0.01	0.0948	70.4	0.250	30.9	0.48	0.52	230.45	5.52	608.63
1/18	41	5.24	0.15	11.1	0.11	1.18	0.00	0.03	0.0951	70.7	0.253	31.2	0.50	0.58	231.03	6.13	614.76
1/19	42	5.81	0.15	11.2	0.09	0.92	0.00	0.02	0.0953	70.8	0.255	31.5	0.51	0.52	231.55	5.19	619.95
1/20	43	4.37	0.10	11.0	0.09	1.04	0.00	0.02	0.0954	70.9	0.257	31.7	0.53	0.39	231.94	4.44	624.40
1/21	44	5.24	0.15	11.2	0.09	1.04	0.00	0.10	0.0956	71.0	0.259	32.0	0.55	0.47	232.41	5.35	629.74
1/22	45	5.48	0.15	11.1	0.08	0.95	0.00	0.03	0.0958	71.2	0.261	32.2	0.56	0.44	232.85	4.70	634.44
1/23	46	4.00	0.20	11.0	0.10	1.21	0.00	0.01	0.0960	71.3	0.263	32.5	0.57	0.40	233.25	4.69	639.13
1/24	47	5.17	0.20	11.1	0.10	1.19	0.00	0.02	0.0962	71.5	0.265	32.7	0.58	0.52	233.77	6.10	645.23
1/25	48	4.80	0.20	10.9	0.09	0.98	0.00	0.02	0.0964	71.6	0.267	33.0	0.59	0.43	234.20	4.60	649.83
1/26	49	4.13	0.20	10.7	0.08	0.93	0.00	0.02	0.0965	71.7	0.269	33.2	0.60	0.33	234.53	3.74	653.57
1/27	50	6.57	0.15	11.2	0.08	0.86	0.00	0.04	0.0967	71.8	0.271	33.5	0.61	0.53	235.06	5.55	659.12
1/28	51	4.59	0.20	11.0	0.07	0.94	0.00	0.02	0.0968	71.9	0.273	33.7	0.62	0.32	235.38	4.11	663.23
1/29	52	5.33	0.20	11.1	0.07	0.93	0.00	0.04	0.0970	72.1	0.275	34.0	0.63	0.37	235.75	4.85	668.08

3439 P-3

NaCN added	123.04	g	NaCN	0.50	lb/ton solution
NaCN Consumption	1.47	lb/ton ore			
	12.0	lbs Cement/ton of ore			

Ore Charge			
70.89	kg	0.071	mt
156.28	lb	0.0781	ton

	oz/ton ore Au	oz/ton ore Ag
Avg. Head	0.100	0.75
Head Screen	0.1216	0.86
Tail Screen	0.0331	0.469
Tail Assay		

Daily Column Leach Test Data,
Sample I.D. DP-005 (MG)
Test Conditions,

Feed Size, 80% minus 1"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
Date	Days Leached	Vol. l.	NaCN Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
1/30	53	5.05	0.15	11.0	0.06	0.87	0.00	0.03	0.0971	72.1	0.277	34.2	0.64	0.30	236.06	4.19	672.27
1/31	54	4.75	0.15	11.0	0.07	0.80	0.00	0.03	0.0973	72.3	0.278	34.3	0.66	0.33	236.39	3.65	675.92
2/1	55	4.67	0.15	10.5	0.07	0.82	0.00	0.03	0.0974	72.4	0.280	34.6	0.67	0.33	236.71	3.68	679.60
2/2	56	4.52	0.15	11.1	0.07	0.87	0.00	0.00	0.0975	72.4	0.281	34.7	0.69	0.32	237.03	3.78	683.38
2/3	57	5.10	0.20	11.1	0.06	0.74	0.00	0.01	0.0977	72.6	0.283	34.9	0.70	0.31	237.34	3.77	687.15
2/4	58	5.54	0.20	11.1	0.06	0.69	0.00	0.00	0.0978	72.7	0.284	35.1	0.70	0.33	237.67	3.77	690.92
2/5	59	4.68	0.15	11.2	0.06	0.69	0.00	0.00	0.0979	72.7	0.286	35.3	0.72	0.28	237.95	3.23	694.15
2/6	60	5.12	0.15	11.1	0.06	0.71	0.00	0.05	0.0980	72.8	0.287	35.4	0.73	0.31	238.26	3.64	697.79
2/7	61	5.05	0.15	11.0	0.05	0.70	0.00	0.03	0.0981	72.9	0.288	35.6	0.75	0.25	238.51	3.28	701.07
2/8	62	4.71	0.15	11.0	0.06	0.71	0.00	0.02	0.0982	73.0	0.290	35.8	0.76	0.28	238.79	3.19	704.26
2/9	63	4.09	0.15	11.0	0.06	0.89	0.00	0.02	0.0984	73.1	0.291	35.9	0.78	0.25	239.04	3.54	707.80
2/10	64	4.74	0.15	11.1	0.05	0.64	0.00	0.00	0.0984	73.1	0.292	36.0	0.80	0.24	239.28	2.93	710.73
2/11	65	5.96	0.15	11.0	0.05	0.57	0.00	0.00	0.0986	73.3	0.294	36.3	0.81	0.30	239.57	3.40	714.12
2/12	66	4.97	0.15	10.8	0.05	0.56	0.01	0.00	0.0987	73.3	0.295	36.4	0.82	0.25	239.82	2.78	716.91
2/13	67	5.13	0.10	10.8	0.05	0.54	0.00	0.00	0.0988	73.4	0.296	36.5	0.85	0.21	240.03	2.77	719.68
2/14	68	4.56	0.20	10.9	0.04	0.53	0.00	0.00	0.0988	73.4	0.297	36.7	0.86	0.18	240.21	2.42	722.09
2/15	69	5.32	0.05	10.9	0.03	0.44	0.00	0.00	0.0989	73.5	0.298	36.8	0.89	0.16	240.37	2.34	724.43
2/16	70	4.30	0.05	11.0	0.03	0.37	0.00	0.00	0.0990	73.6	0.299	36.9	0.92	0.13	240.50	1.59	726.03
2/17	71	5.61	0.05	10.5	0.02	0.25	0.00	0.00	0.0990	73.6	0.299	36.9	0.94	0.11	240.61	1.40	727.43
2/18	72	4.69	0.05	10.8	0.03	0.34	0.00	0.00	0.0991	73.6	0.300	37.0	0.97	0.14	240.75	1.59	729.02
2/19	73	5.16	0.10	10.8	0.03	0.33	0.00	0.00	0.0991	73.6	0.301	37.2	0.99	0.15	240.91	1.70	730.73
2/20	74	4.04	0.10	10.5	0.03	0.42	0.00	0.00	0.0992	73.7	0.301	37.2	1.02	0.12	241.03	1.70	732.42
2/21	75	5.44	0.05	10.7	0.02	0.38	0.00	0.01	0.0992	73.7	0.302	37.3	1.05	0.11	241.14	2.07	734.49
2/22	76	5.34	0.10	10.8	0.02	0.31	0.00	0.00	0.0993	73.8	0.303	37.4	1.07	0.11	241.24	1.60	736.09
2/23	77		Rest Cycle														
3/8	90																
3/9	91	4.24	0.00	9.4	0.09	1.55	0.00	0.03	0.0994	73.8	0.306	37.8	1.10	0.38	241.62	6.57	742.67
3/10	92	5.17	0.15	10.4	0.04	0.78	0.00	0.03	0.0995	73.9	0.307	37.9	1.12	0.21	241.83	3.88	746.55
3/11	93	4.94	0.15	10.6	0.03	0.54	0.00	0.04	0.0996	74.0	0.308	38.0	1.13	0.15	241.98	2.51	749.06
3/12	94	5.09	0.15	10.8	0.03	0.55	0.00	0.06	0.0996	74.0	0.309	38.1	1.15	0.15	242.13	2.60	751.66
3/13	95	4.91	0.20	10.7	0.04	0.59	0.00	0.06	0.0997	74.1	0.310	38.3	1.16	0.20	242.33	2.59	754.25
3/14	96	5.14	0.15	10.6	0.04	0.62	0.00	0.07	0.0998	74.1	0.312	38.5	1.17	0.21	242.53	2.88	757.13
3/15	97	3.63	0.10	10.7	0.04	0.72	0.00	0.05	0.0998	74.1	0.312	38.5	1.20	0.15	242.68	2.26	759.38
3/16	98		Rest Cycle														
3/29	111																
3/30	112	5.90	0.00	9.9	0.15	2.19	0.00	0.07	0.1002	74.4	0.318	39.3	1.23	0.89	243.56	12.92	772.31
3/31	113	4.14	0.15	10.5	0.09	1.47	0.00	0.04	0.1004	74.6	0.320	39.5	1.25	0.37	243.94	5.73	778.03
4/1	114	5.32	0.15	10.3	0.03	0.61	0.00	0.05	0.1004	74.6	0.321	39.6	1.27	0.16	244.10	3.04	781.08
4/2	115	4.21	0.15	10.2	0.04	0.68	0.00	0.06	0.1005	74.7	0.322	39.8	1.28	0.17	244.26	2.61	783.68
4/3	116	5.56	0.20	10.6	0.03	0.58	0.00	0.07	0.1006	74.7	0.324	40.0	1.29	0.17	244.43	2.92	786.60
4/4	117	5.34	0.15	10.5	0.03	0.51	0.00	0.08	0.1006	74.7	0.325	40.1	1.30	0.16	244.59	2.37	788.97
4/5	118	4.00	0.15	10.5	0.03	0.62	0.00	0.06	0.1007	74.8	0.325	40.1	1.32	0.12	244.71	2.07	791.04
4/6	119		Rest Cycle														
4/19	132																
4/20	133	5.30	0.00	9.2	0.09	1.56	0.00	0.07	0.1009	75.0	0.329	40.6	1.36	0.48	245.19	8.27	799.31
4/21	134	4.25	0.15	10.2	0.03	0.60	0.00	0.05	0.1009	75.0	0.330	40.7	1.38	0.13	245.32	2.19	801.50
4/22	135	5.42	0.20	10.6	0.03	0.58	0.00	0.07	0.1010	75.0	0.331	40.9	1.38	0.16	245.48	2.89	804.39
4/23	136	4.56	0.15	10.2	0.03	0.53	0.00	0.06	0.1011	75.1	0.332	41.0	1.40	0.14	245.62	2.06	806.45
4/24	137	5.31	0.20	10.0	0.03	0.45	0.00	0.08	0.1011	75.1	0.333	41.1	1.40	0.16	245.78	2.08	808.53
4/25	138	4.84	0.10	10.0	0.03	0.55	0.00	0.09	0.1012	75.2	0.334	41.2	1.43	0.15	245.92	2.25	810.79
4/26	139	5.10	0.10	10.1	0.00	0.51	0.00	0.09	0.1012	75.2	0.334	41.2	1.45	0.00	245.92	2.14	812.93
4/27	140		Rest Cycle														

3439 P-3

Ore Charge				NaCN added	123.04	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	1.47	lb/ton ore				Au	Ag
70.89	kg	0.071	mt								
156.28	lb	0.0781	ton		12.0	lbs Cement/ton of ore				Avg. Head	0.100	0.75
										Head Screen	0.1216	0.86
										Tail Screen	0.0331	0.469
										Tail Assay		

Daily Column Leach Test Data,

Sample I.D. DP-005 (MG)

Test Conditions,

Feed Size, 80% minus 1"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
5/10	153																
5/11	154	4.29	0.00	9.6	0.12	1.76	0.00	0.06	0.1014	75.3	0.338	41.7	1.48	0.51	246.44	7.55	820.48
			Rinse Cycle														
5/12	155	3.69	0.10	10.3	0.06	1.52	0.00	0.06	0.1015	75.4	0.340	42.0	1.48	0.22	246.66	5.61	826.09
5/13	156	6.21	0.05	10.5	0.00	0.32	0.00	0.07	0.1015	75.4	0.341	42.1	1.48	0.00	246.66	1.68	827.77
5/14	157	4.03	0.00	10.7	0.00	0.18	0.00	0.16	0.1015	75.4	0.341	42.1	1.48	0.00	246.66	0.73	828.49
5/15	158	4.86	0.00	11.1	0.00	0.08	0.00	0.17	0.1015	75.4	0.341	42.1	1.47	0.00	246.66	0.39	828.88
5/16	159	4.49	0.00	11.0	0.00	0.05	0.00	0.16	0.1015	75.4	0.341	42.1	1.47	0.00	246.66	0.22	829.11
			Drain Down														

Extracted, oz/ton of ore	**0.1015**	**75.4**	**0.341**	**42.1**
Estimated Tail , oz/ton of ore	**0.0331**		**0.469**	
Calculated Head, oz/ton of ore	**0.1346**		**0.810**	

3439 P-4

Ore Charge				NaCN added	137.97	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	2.21	lb/ton ore				Au	Ag
71.56	kg	0.072	mt								
157.76	lb	0.0789	ton		12.0	lbs Cement/ton of ore			Avg. Head	0.040	0.45
									Head Screen	0.0328	0.44
									Tail Screen	0.0082	0.244
									Tail Assay		

Daily Column Leach Test Data,

Sample I.D. HM-MG (Comp)

Test Conditions,

Feed Size, 80% minus 1"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
12/9	1												0.00	0.00	0.00	0.00	0.00
12/10	2	3.04	0.00	9.0	1.48	4.74	0.00	0.00	0.0018	6.1	0.006	1.4	0.04	4.50	4.50	14.41	14.41
12/11	3	4.07	0.10	8.5	2.87	15.10	0.00	0.00	0.0066	22.4	0.031	7.2	0.06	11.68	16.18	61.46	75.87
12/12	4	5.46	0.15	9.5	1.52	12.50	0.00	0.00	0.0100	34.0	0.059	13.8	0.07	8.30	24.48	68.25	144.12
12/13	5	5.47	0.20	10.1	0.74	4.64	0.00	0.00	0.0116	39.5	0.069	16.1	0.08	4.05	28.53	25.38	169.50
12/14	6	5.02	0.15	10.3	0.52	2.77	0.00	0.00	0.0127	43.2	0.075	17.5	0.09	2.61	31.14	13.91	183.40
12/15	7	4.55	0.10	10.1	0.42	2.29	0.00	0.00	0.0135	45.9	0.079	18.5	0.12	1.91	33.05	10.42	193.82
12/16	8	5.16	0.15	10.1	0.31	2.00	0.00	0.00	0.0141	48.0	0.083	19.4	0.13	1.60	34.65	10.32	204.14
12/17	9	5.13	0.20	10.3	0.25	2.06	0.00	0.00	0.0146	49.7	0.088	20.6	0.14	1.28	35.93	10.57	214.71
12/18	10	4.70	0.15	10.3	0.22	1.82	0.00	0.00	0.0151	51.4	0.091	21.3	0.15	1.03	36.96	8.55	223.26
12/19	11	5.19	0.15	10.4	0.19	1.58	0.00	0.01	0.0155	52.7	0.094	22.0	0.17	0.99	37.95	8.20	231.46
12/20	12	4.91	0.15	10.1	0.16	1.46	0.00	0.01	0.0158	53.7	0.097	22.7	0.18	0.79	38.74	7.12	238.58
12/21	13	4.76	0.15	10.3	0.14	1.47	0.00	0.00	0.0161	54.8	0.100	23.4	0.20	0.67	39.40	6.95	245.53
12/22	14	4.68	0.15	9.9	0.12	1.22	0.00	0.01	0.0163	55.4	0.102	23.8	0.21	0.56	39.96	5.71	251.24
12/23	15	4.68	0.15	10.3	0.12	1.11	0.00	0.01	0.0165	56.1	0.104	24.3	0.23	0.56	40.53	5.14	256.38
12/24	16	5.13	0.15	10.4	0.10	1.01	0.00	0.00	0.0167	56.8	0.107	25.0	0.24	0.51	41.04	5.13	261.51
12/25	17	4.79	0.15	10.4	0.09	0.92	0.00	0.00	0.0169	57.5	0.108	25.2	0.26	0.43	41.47	4.41	265.92
12/26	18	5.94	0.15	10.4	0.08	0.82	0.00	0.00	0.0171	58.2	0.110	25.7	0.27	0.48	41.95	4.87	270.79
12/27	19	5.13	0.15	10.5	0.08	0.91	0.00	0.00	0.0173	58.8	0.112	26.2	0.29	0.41	42.36	4.67	275.46
12/28	20	4.51	0.15	10.1	0.08	1.04	0.00	0.00	0.0174	59.2	0.114	26.6	0.30	0.36	42.72	4.69	280.15
12/29	21	5.17	0.15	10.4	0.07	0.91	0.00	0.00	0.0176	59.9	0.116	27.1	0.32	0.36	43.08	4.70	284.85
12/30	22	5.25	0.15	10.6	0.06	0.86	0.00	0.00	0.0177	60.2	0.118	27.6	0.33	0.32	43.39	4.52	289.37
12/31	23	5.01	0.15	10.3	0.06	0.84	0.00	0.00	0.0178	60.5	0.120	28.0	0.35	0.30	43.69	4.21	293.58
1/1	24	4.46	0.15	10.4	0.06	0.82	0.00	0.00	0.0179	60.9	0.121	28.3	0.36	0.27	43.96	3.66	297.23
1/2	25	4.81	0.10	10.4	0.06	0.92	0.00	0.00	0.0180	61.2	0.123	28.7	0.38	0.29	44.25	4.43	301.66
1/3	26	5.56	0.15	10.2	0.05	0.72	0.00	0.00	0.0181	61.6	0.125	29.2	0.40	0.28	44.53	4.00	305.66
1/4	27	4.50	0.20	10.7	0.06	0.80	0.00	0.00	0.0183	62.2	0.126	29.4	0.41	0.27	44.80	3.60	309.26
1/5	28	5.20	0.15	10.5	0.04	0.71	0.00	0.00	0.0183	62.2	0.128	29.9	0.42	0.21	45.01	3.69	312.95
1/6	29	4.42	0.15	10.4	0.04	0.62	0.00	0.00	0.0184	62.6	0.129	30.1	0.44	0.18	45.18	2.74	315.69
1/7	30	5.53	0.10	10.6	0.04	0.55	0.00	0.00	0.0185	62.9	0.130	30.4	0.46	0.22	45.40	3.04	318.74
1/8	31	4.64	0.15	10.5	0.04	0.59	0.00	0.00	0.0186	63.3	0.131	30.6	0.48	0.19	45.59	2.74	321.47
1/9	32	5.03	0.20	10.5	0.04	0.60	0.00	0.00	0.0187	63.6	0.132	30.8	0.48	0.20	45.79	3.02	324.49
1/10	33	4.74	0.15	10.4	0.03	0.61	0.00	0.00	0.0187	63.6	0.133	31.1	0.50	0.14	45.93	2.89	327.38
1/11	34	5.60	0.10	10.5	0.03	0.50	0.00	0.00	0.0188	63.9	0.135	31.5	0.52	0.17	46.10	2.80	330.18
1/12	35	3.97	0.10	10.3	0.03	0.57	0.00	0.00	0.0188	63.9	0.136	31.8	0.54	0.12	46.22	2.26	332.45
1/13	36	5.84	0.15	10.5	0.04	0.60	0.00	0.00	0.0189	64.3	0.137	32.0	0.56	0.23	46.45	3.50	335.95
1/14	37	4.50	0.15	10.5	0.04	0.61	0.00	0.00	0.0190	64.6	0.138	32.2	0.57	0.18	46.63	2.75	338.69
1/15	38	5.66	0.15	10.2	0.04	0.54	0.00	0.00	0.0191	65.0	0.139	32.5	0.58	0.23	46.86	3.06	341.75
1/16	39	4.61	0.10	10.5	0.03	0.56	0.00	0.00	0.0192	65.3	0.140	32.7	0.61	0.14	47.00	2.58	344.33
1/17	40	4.38	0.10	10.3	0.03	0.55	0.00	0.00	0.0192	65.3	0.141	32.9	0.63	0.13	47.13	2.41	346.74
1/18	41	5.30	0.10	10.5	0.03	0.50	0.00	0.00	0.0193	65.6	0.142	33.2	0.65	0.16	47.29	2.65	349.39
1/19	42	5.55	0.10	10.4	0.03	0.42	0.00	0.00	0.0193	65.6	0.143	33.4	0.67	0.17	47.46	2.33	351.72
1/20	43	4.65	0.10	10.2	0.02	0.46	0.00	0.00	0.0194	66.0	0.144	33.6	0.69	0.09	47.55	2.14	353.86
1/21	44	5.02	0.05	10.4	0.02	0.41	0.00	0.04	0.0194	66.0	0.145	33.9	0.72	0.10	47.65	2.06	355.92
1/22	45	5.27	0.10	10.2	0.02	0.33	0.00	0.00	0.0195	66.3	0.146	34.1	0.74	0.11	47.75	1.54	357.45
1/23	46	4.00	0.05	9.9	0.02	0.39	0.00	0.00	0.0195	66.3	0.146	34.1	0.77	0.08	47.83	1.56	359.01
1/24	47	5.46	0.00	10.3	0.02	0.31	0.00	0.00	0.0195	66.3	0.147	34.3	0.81	0.11	47.94	1.69	360.71
1/25	48	4.84	0.05	10.1	0.02	0.22	0.00	0.00	0.0196	66.7	0.147	34.3	0.84	0.10	48.04	1.06	361.77
1/26	49	5.46	0.05	10.1	0.01	0.19	0.00	0.00	0.0196	66.7	0.148	34.6	0.87	0.05	48.09	1.04	362.81
1/27	50	4.51	0.05	10.2	0.01	0.18	0.00	0.00	0.0196	66.7	0.148	34.6	0.90	0.05	48.14	0.81	363.62
1/28	51	4.38	0.05	10.1	0.01	0.19	0.00	0.00	0.0196	66.7	0.149	34.8	0.93	0.04	48.18	0.83	364.45
1/29	52	5.47	0.05	10.3	0.01	0.16	0.00	0.00	0.0197	67.0	0.149	34.8	0.95	0.05	48.24	0.88	365.33

3439 P-4

Ore Charge				NaCN added	137.97	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	2.21	lb/ton ore				Au	Ag
71.56	kg	0.072	mt								
157.76	lb	0.0789	ton		12.0	lbs Cement/ton of ore				Avg. Head	0.040	0.45
										Head Screen	0.0328	0.44
										Tail Screen	0.0082	0.244
										Tail Assay		

Daily Column Leach Test Data,

Sample I.D. HM-MG (Comp)

Test Conditions,

Feed Size, 80% minus 1"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
1/30	53	5.23	0.00	10.3	0.01	0.14	0.00	0.00	0.0197	67.0	0.149	34.8	0.99	0.05	48.29	0.73	366.06
1/31	54	4.62	0.00	10.4	0.01	0.14	0.00	0.00	0.0197	67.0	0.149	34.8	1.03	0.05	48.34	0.65	366.71
2/1	55	4.65	0.05	9.8	0.01	0.14	0.00	0.00	0.0197	67.0	0.150	35.0	1.06	0.05	48.38	0.65	367.36
2/2	56	4.73	0.00	10.4	0.01	0.11	0.00	0.00	0.0197	67.0	0.150	35.0	1.09	0.05	48.43	0.52	367.88
2/3	57	4.99	0.05	10.5	0.01	0.11	0.00	0.00	0.0198	67.3	0.150	35.0	1.12	0.05	48.48	0.55	368.43
2/4	58	5.49	0.05	10.5	0.01	0.09	0.00	0.00	0.0198	67.3	0.150	35.0	1.15	0.05	48.54	0.49	368.92
2/5	59	5.17	0.05	10.5	0.01	0.08	0.00	0.00	0.0198	67.3	0.151	35.3	1.18	0.05	48.59	0.41	369.34
2/6	60	5.18	0.05	10.4	0.01	0.13	0.00	0.00	0.0198	67.3	0.151	35.3	1.21	0.05	48.64	0.67	370.01
2/7	61	5.00	0.00	10.4	0.01	0.11	0.00	0.00	0.0198	67.3	0.151	35.3	1.24	0.05	48.69	0.55	370.56
2/8	62	4.96	0.05	10.5	0.01	0.09	0.00	0.00	0.0199	67.7	0.151	35.3	1.27	0.05	48.74	0.45	371.01
2/9	63	5.11	0.00	10.4	0.01	0.11	0.00	0.00	0.0199	67.7	0.151	35.3	1.31	0.05	48.79	0.56	371.57
2/10	64	3.30	0.05	10.3	0.01	0.06	0.00	0.00	0.0199	67.7	0.152	35.5	1.34	0.03	48.82	0.20	371.77
2/11	65	4.91	0.00	10.4	0.01	0.06	0.00	0.00	0.0199	67.7	0.152	35.5	1.37	0.05	48.87	0.29	372.06
2/12	66	6.36	0.00	10.5	0.01	0.05	0.00	0.00	0.0199	67.7	0.152	35.5	1.41	0.06	48.94	0.32	372.38
2/13	67	0.35	0.00	9.7	0.01	0.10	0.00	0.00	0.0199	67.7	0.152	35.5	1.41	0.00	48.94	0.04	372.41
2/14	68	3.07	0.00	10.3	0.01	0.14	0.00	0.00	0.0200	68.0	0.152	35.5	1.44	0.03	48.97	0.43	372.84
2/15	69	6.20	0.10	10.4	0.01	0.16	0.00	0.00	0.0200	68.0	0.152	35.5	1.46	0.06	49.03	0.99	373.84
2/16	70	4.38	0.10	10.4	0.02	0.22	0.00	0.00	0.0200	68.0	0.153	35.7	1.49	0.09	49.12	0.96	374.80
2/17	71	2.01	0.05	9.9	0.01	0.18	0.00	0.00	0.0200	68.0	0.153	35.7	1.50	0.02	49.14	0.36	375.16
2/18	72	4.65	0.10	10.2	0.02	0.26	0.00	0.00	0.0201	68.4	0.153	35.7	1.52	0.09	49.23	1.21	376.37
2/19	73	5.35	0.05	10.3	0.01	0.15	0.00	0.00	0.0201	68.4	0.154	36.0	1.55	0.05	49.29	0.80	377.17
2/20	74	1.50	0.05	9.6	0.01	0.19	0.00	0.00	0.0201	68.4	0.154	36.0	1.56	0.02	49.30	0.29	377.46
2/21	75	5.40	0.10	10.3	0.02	0.29	0.00	0.00	0.0201	68.4	0.154	36.0	1.58	0.11	49.41	1.57	379.02
2/22	76	5.33	0.10	10.3	0.01	0.24	0.00	0.00	0.0202	68.7	0.155	36.2	1.60	0.05	49.46	1.28	380.30
2/23	77		Rest Cycle														
3/8	90																
3/9	91	4.08	0.00	9.4	0.04	0.91	0.00	0.00	0.0202	68.7	0.157	36.7	1.64	0.16	49.63	3.71	384.02
3/10	92	5.39	0.10	10.3	0.02	0.49	0.00	0.00	0.0203	69.0	0.158	36.9	1.66	0.11	49.73	2.64	386.66
3/11	93	4.89	0.25	10.4	0.01	0.28	0.00	0.00	0.0203	69.0	0.158	36.9	1.66	0.05	49.78	1.37	388.03
3/12	94	5.17	0.20	10.3	0.01	0.30	0.00	0.00	0.0203	69.0	0.159	37.1	1.67	0.05	49.83	1.55	389.58
3/13	95	4.91	0.10	10.4	0.01	0.26	0.00	0.00	0.0203	69.0	0.159	37.1	1.69	0.05	49.88	1.28	390.85
3/14	96	5.18	0.10	10.3	0.01	0.24	0.00	0.00	0.0204	69.4	0.160	37.4	1.71	0.05	49.93	1.24	392.10
3/15	97	3.34	0.20	10.3	0.02	0.34	0.00	0.00	0.0204	69.4	0.160	37.4	1.73	0.07	50.00	1.14	393.23
3/16	98		Rest Cycle														
3/29	111																
3/30	112	6.22	0.00	9.6	0.05	1.07	0.00	0.00	0.0205	69.7	0.163	38.1	1.76	0.31	50.31	6.66	399.89
3/31	113	4.62	0.10	10.2	0.02	0.40	0.00	0.00	0.0205	69.7	0.164	38.3	1.79	0.09	50.40	1.85	401.74
4/1	114	5.27	0.20	10.1	0.01	0.26	0.00	0.00	0.0206	70.1	0.164	38.3	1.79	0.05	50.46	1.37	403.11
4/2	115	4.59	0.15	10.0	0.01	0.35	0.00	0.00	0.0206	70.1	0.165	38.6	1.81	0.05	50.50	1.61	404.71
4/3	116	5.26	0.15	10.2	0.01	0.28	0.00	0.00	0.0206	70.1	0.166	38.8	1.82	0.05	50.56	1.47	406.18
4/4	117	5.22	0.20	10.2	0.01	0.23	0.00	0.00	0.0206	70.1	0.166	38.8	1.83	0.05	50.61	1.20	407.39
4/5	118	4.40	0.15	10.2	0.01	0.32	0.00	0.00	0.0206	70.1	0.167	39.0	1.85	0.04	50.65	1.41	408.79
4/6	119		Rest Cycle														
4/19	132																
4/20	133	4.92	0.00	9.5	0.05	1.01	0.00	0.00	0.0207	70.4	0.169	39.5	1.88	0.25	50.90	4.97	413.76
4/21	134	4.53	0.15	10.2	0.01	0.24	0.00	0.00	0.0208	70.7	0.169	39.5	1.90	0.05	50.94	1.09	414.85
4/22	135	5.24	0.20	10.5	0.01	0.27	0.00	0.00	0.0208	70.7	0.170	39.7	1.91	0.05	51.00	1.41	416.26
4/23	136	4.52	0.15	10.0	0.01	0.27	0.00	0.00	0.0208	70.7	0.170	39.7	1.92	0.05	51.04	1.22	417.48
4/24	137	5.33	0.15	9.9	0.01	0.21	0.00	0.00	0.0208	70.7	0.171	40.0	1.94	0.05	51.09	1.12	418.60
4/25	138	4.75	0.15	10.5	0.01	0.28	0.00	0.00	0.0208	70.7	0.171	40.0	1.95	0.05	51.14	1.33	419.93
4/26	139	5.16	0.15	10.0	0.00	0.25	0.00	0.00	0.0208	70.7	0.172	40.2	1.97	0.00	51.14	1.29	421.22
4/27	140		Rest Cycle														

3439 P-4

Ore Charge				NaCN added	137.97	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	2.21	lb/ton ore				Au	Ag
71.56	kg	0.072	mt								
157.76	lb	0.0789	ton		12.0	lbs Cement/ton of ore					
									Avg. Head	0.040	0.45
									Head Screen	0.0328	0.44
									Tail Screen	0.0082	0.244
									Tail Assay		

Daily Column Leach Test Data,

Sample I.D. HM-MG (Comp)

Test Conditions,

Feed Size, 80% minus 1"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
5/10	153																
5/11	154	4.73	0.00	9.9	0.06	1.21	0.00	0.00	0.0210	71.4	0.174	40.7	2.00	0.28	51.43	5.72	426.95
5/12	155	3.76	0.10	10.5	0.00	0.58	0.00	0.00	0.0210	71.4	0.175	40.9	2.03	0.00	51.43	2.18	429.13
5/13	156	5.94	0.15	10.4	0.00	0.25	0.00	0.00	0.0210	71.4	0.176	41.1	2.04	0.00	51.43	1.49	430.61
5/14	157	4.75	0.15	10.5	0.00	0.25	0.00	0.00	0.0210	71.4	0.176	41.1	2.05	0.00	51.43	1.19	431.80
5/15	158	4.62	0.15	10.5	0.01	0.27	0.00	0.01	0.0210	71.4	0.177	41.4	2.07	0.05	51.47	1.25	433.05
5/16	159	4.29	0.15	10.5	0.01	0.27	0.00	0.00	0.0210	71.4	0.177	41.4	2.09	0.04	51.51	1.11	434.16
5/17	160	5.66	0.20	10.6	0.01	0.21	0.00	0.01	0.0210	71.4	0.177	41.4	2.09	0.06	51.57	1.19	435.34
5/18	161		Rest Cycle														
5/31	174																
6/1	175	4.75	0.05	9.8	0.03	0.88	0.00	0.00	0.0211	71.8	0.179	41.8	2.12	0.14	51.71	4.18	439.52
6/2	176	4.28	0.10	10.6	0.02	0.71	0.00	0.00	0.0211	71.8	0.180	42.1	2.15	0.09	51.80	3.04	442.56
6/3	177	5.41	0.15	10.6	0.00	0.21	0.00	0.00	0.0211	71.8	0.181	42.3	2.16	0.00	51.80	1.14	443.70
6/4	178	4.79	0.25	10.0	0.00	0.21	0.00	0.00	0.0211	71.8	0.181	42.3	2.16	0.00	51.80	1.01	444.70
6/5	179	4.12	0.10	10.4	0.00	0.27	0.00	0.00	0.0211	71.8	0.182	42.5	2.18	0.00	51.80	1.11	445.82
6/6	180	5.60	0.10	10.3	0.00	0.16	0.00	0.00	0.0211	71.8	0.182	42.5	2.21	0.00	51.80	0.90	446.71
6/7	181	4.39	0.20	10.6	0.00	0.19	0.00	0.00	0.0211	71.8	0.182	42.5	2.22	0.00	51.80	0.83	447.55
6/8	182		Rinse Cycle														
6/15	189	1.63	0.05	8.5	0.05	0.83	0.00	0.01	0.0211	71.8	0.183	42.8	2.21	0.08	51.88	1.35	448.90
6/16	190	3.12	0.00	10.3	0.00	0.21	0.00	0.00	0.0211	71.8	0.183	42.8	2.21	0.00	51.88	0.60	449.50
6/17	191	5.63	0.00	10.7	0.01	0.20	0.00	0.01	0.0212	72.1	0.184	43.0	2.21	0.06	51.94	1.13	450.63
			Drain Down														

Extracted, oz/ton of ore	**0.0212**	**72.1**	**0.184**	**43.0**
Estimated Tail , oz/ton of ore	**0.0082**		**0.244**	
Calculated Head, oz/ton of ore	**0.0294**		**0.428**	

3439 P-5

Ore Charge				NaCN added	123.67	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	1.29	lb/ton ore				Au	Ag
72.36	kg	0.072	mt								
159.52	lb	0.0798	ton		12.0	lbs Cement/ton of ore			Avg. Head	0.172	1.13
									Head Screen	0.1398	1.18
									Tail Screen	0.0479	0.680
									Tail Assay		

Daily Column Leach Test Data,
Sample I.D. HM-010 (HG)
Test Conditions,

Feed Size, 80% minus 1"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
12/9	1												0.00	0.00	0.00	0.00	0.00
12/10	2	2.20	0.00	9.9	1.66	4.32	0.00	0.00	0.0015	1.1	0.004	0.3	0.04	3.65	3.65	9.50	9.50
12/11	3	4.14	0.10	11.5	4.24	77.00	0.00	0.01	0.0085	6.3	0.132	10.4	0.06	17.55	21.21	318.78	328.28
12/12	4	5.41	0.10	11.1	5.52	52.40	0.00	0.01	0.0206	15.4	0.247	19.5	0.08	29.86	51.07	283.43	611.72
12/13	5	5.33	0.25	11.2	3.35	17.70	0.01	0.01	0.0278	20.7	0.285	22.5	0.08	17.86	68.92	94.29	706.01
12/14	6	5.03	0.15	11.2	2.19	9.90	0.00	0.01	0.0322	24.0	0.305	24.1	0.09	10.96	79.89	49.75	755.75
12/15	7	4.65	0.15	11.2	1.62	6.40	0.00	0.01	0.0352	26.2	0.317	25.1	0.11	7.53	87.42	29.71	785.46
12/16	8	5.10	0.15	11.0	1.33	6.21	0.00	0.01	0.0380	28.3	0.329	26.0	0.12	6.78	94.21	31.62	817.08
12/17	9	5.09	0.20	11.1	1.19	5.67	0.00	0.01	0.0404	30.1	0.341	27.0	0.13	6.06	100.26	28.81	845.89
12/18	10	4.76	0.20	11.1	1.11	5.46	0.00	0.00	0.0425	31.7	0.351	27.7	0.14	5.28	105.55	25.94	871.83
12/19	11	5.10	0.20	11.2	1.00	4.71	0.00	0.03	0.0446	33.2	0.361	28.5	0.15	5.10	110.65	24.02	895.85
12/20	12	4.98	0.15	11.1	0.87	4.04	0.00	0.03	0.0463	34.5	0.369	29.2	0.16	4.33	114.98	19.97	915.82
12/21	13	4.79	0.20	11.2	0.79	3.76	0.00	0.03	0.0479	35.7	0.376	29.7	0.17	3.78	118.76	17.86	933.67
12/22	14	4.64	0.20	10.9	0.69	3.44	0.00	0.01	0.0492	36.7	0.383	30.3	0.18	3.20	121.96	15.81	949.48
12/23	15	4.74	0.25	11.2	0.68	3.26	0.00	0.02	0.0505	37.6	0.389	30.8	0.18	3.22	125.19	15.40	964.88
12/24	16	5.17	0.20	11.2	0.60	2.97	0.00	0.03	0.0517	38.5	0.395	31.2	0.19	3.10	128.29	15.25	980.14
12/25	17	4.74	0.20	11.3	0.57	2.55	0.00	0.03	0.0528	39.3	0.400	31.6	0.20	2.70	130.99	11.93	992.07
12/26	18	5.77	0.15	11.2	0.52	2.22	0.00	0.03	0.0540	40.2	0.405	32.0	0.21	3.00	133.99	12.66	1004.73
12/27	19	5.14	0.20	11.5	0.51	2.35	0.00	0.03	0.0551	41.1	0.410	32.4	0.22	2.62	136.61	11.93	1016.65
12/28	20	4.62	0.20	11.1	0.53	2.60	0.00	0.03	0.0561	41.8	0.415	32.8	0.23	2.45	139.06	11.86	1028.51
12/29	21	5.10	0.20	11.4	0.48	2.59	0.00	0.04	0.0570	42.5	0.420	33.2	0.23	2.45	141.51	13.06	1041.57
12/30	22	5.17	0.15	11.5	0.43	2.28	0.00	0.05	0.0579	43.1	0.425	33.6	0.25	2.22	143.73	11.58	1053.15
12/31	23	4.99	0.20	11.2	0.40	2.12	0.00	0.06	0.0587	43.7	0.429	33.9	0.26	2.00	145.73	10.32	1063.48
1/1	24	4.68	0.20	11.4	0.38	2.20	0.00	0.06	0.0595	44.3	0.433	34.2	0.27	1.78	147.51	9.99	1073.47
1/2	25	4.57	0.20	11.4	0.45	2.45	0.00	0.06	0.0603	44.9	0.437	34.5	0.28	2.06	149.56	10.89	1084.36
1/3	26	5.58	0.20	11.3	0.37	2.00	0.00	0.07	0.0611	45.5	0.441	34.9	0.28	2.06	151.63	10.85	1095.21
1/4	27	4.62	0.15	10.5	0.37	1.93	0.00	0.06	0.0618	46.1	0.445	35.2	0.30	1.71	153.34	8.56	1103.77
1/5	28	5.08	0.20	11.4	0.34	1.76	0.00	0.07	0.0625	46.6	0.448	35.4	0.30	1.73	155.06	8.63	1112.41
1/6	29	4.59	0.20	11.4	0.31	1.67	0.00	0.06	0.0631	47.0	0.451	35.7	0.31	1.42	156.49	7.31	1119.71
1/7	30	5.34	0.15	11.5	0.31	1.61	0.00	0.07	0.0637	47.5	0.455	36.0	0.33	1.66	158.14	8.29	1128.00
1/8	31	4.79	0.20	11.5	0.30	1.54	0.00	0.07	0.0643	47.9	0.458	36.2	0.34	1.44	159.58	7.02	1135.02
1/9	32	4.99	0.20	11.4	0.27	1.56	0.00	0.07	0.0649	48.4	0.461	36.4	0.34	1.35	160.93	7.43	1142.45
1/10	33	4.80	0.20	11.4	0.27	1.63	0.00	0.08	0.0654	48.7	0.464	36.7	0.35	1.30	162.22	7.47	1149.92
1/11	34	5.33	0.20	11.6	0.28	1.51	0.00	0.09	0.0660	49.2	0.467	36.9	0.36	1.49	163.72	7.64	1157.56
1/12	35	4.14	0.20	11.4	0.29	1.56	0.00	0.08	0.0665	49.6	0.469	37.1	0.37	1.20	164.92	6.00	1163.56
1/13	36	5.68	0.15	11.6	0.29	1.66	0.00	0.12	0.0671	50.0	0.473	37.4	0.38	1.65	166.56	9.02	1172.58
1/14	37	4.60	0.20	11.5	0.28	1.50	0.01	0.12	0.0677	50.4	0.475	37.5	0.39	1.29	167.85	6.29	1178.87
1/15	38	5.50	0.15	11.3	0.26	1.48	0.00	0.15	0.0682	50.8	0.478	37.8	0.41	1.38	169.23	7.53	1186.40
1/16	39	4.73	0.25	11.4	0.25	1.56	0.00	0.16	0.0687	51.2	0.481	38.0	0.41	1.18	170.41	6.61	1193.01
1/17	40	4.53	0.20	11.4	0.26	1.58	0.00	0.12	0.0692	51.6	0.483	38.2	0.42	1.18	171.59	6.34	1199.35
1/18	41	5.19	0.15	11.5	0.25	1.48	0.00	0.17	0.0697	51.9	0.486	38.4	0.43	1.30	172.89	7.07	1206.42
1/19	42	5.34	0.20	11.3	0.20	1.16	0.00	0.17	0.0701	52.2	0.488	38.6	0.44	1.07	173.96	5.33	1211.75
1/20	43	4.77	0.15	11.2	0.22	1.26	0.00	0.14	0.0705	52.5	0.491	38.8	0.45	1.05	175.01	5.14	1216.89
1/21	44	4.89	0.20	11.4	0.21	1.31	0.02	0.26	0.0710	52.9	0.493	39.0	0.46	1.03	176.03	5.69	1222.58
1/22	45	5.34	0.20	11.3	0.19	1.14	0.00	0.19	0.0713	53.1	0.495	39.1	0.47	0.91	176.95	4.76	1227.34
1/23	46	4.35	0.20	11.3	0.24	1.41	0.00	0.15	0.0717	53.4	0.497	39.3	0.48	1.04	177.99	5.16	1232.51
1/24	47	5.28	0.20	11.4	0.24	1.37	0.00	0.17	0.0723	53.9	0.499	39.4	0.49	1.27	179.26	6.47	1238.98
1/25	48	4.96	0.15	11.2	0.19	1.15	0.00	0.19	0.0726	54.1	0.501	39.6	0.50	0.94	180.20	4.84	1243.81
1/26	49	5.24	0.15	11.4	0.18	1.11	0.00	0.20	0.0730	54.4	0.503	39.8	0.51	0.94	181.14	4.85	1248.66
1/27	50	4.59	0.25	11.3	0.19	1.23	0.00	0.18	0.0734	54.7	0.505	39.9	0.52	0.87	182.01	4.63	1253.29
1/28	51	4.55	0.20	11.2	0.20	1.47	0.00	0.18	0.0737	54.9	0.508	40.2	0.53	0.91	182.92	5.77	1259.06
1/29	52	5.37	0.20	11.3	0.18	1.31	0.00	0.24	0.0741	55.2	0.510	40.3	0.53	0.97	183.89	6.12	1265.17

3439 P-5

Ore Charge				NaCN added	123.67	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	1.29	lb/ton ore				Au	Ag
72.36	kg	0.072	mt								
159.52	lb	0.0798	ton		12.0	lbs Cement/ton of ore					
									Avg. Head	0.172	1.13
									Head Screen	0.1398	1.18
									Tail Screen	0.0479	0.680
									Tail Assay		

Daily Column Leach Test Data,

Sample I.D. HM-010 (HG)

Test Conditions,

Feed Size, 80% minus 1"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
1/30	53	2.75	0.15	11.1	0.18	1.18	0.00	0.21	0.0743	55.4	0.511	40.4	0.54	0.50	184.39	2.49	1267.67
1/31	54	5.22	0.15	11.4	0.21	1.26	0.00	0.22	0.0748	55.7	0.513	40.6	0.56	1.10	185.48	5.51	1273.17
2/1	55	4.71	0.15	11.2	0.17	1.05	0.00	0.21	0.0751	56.0	0.515	40.7	0.57	0.80	186.28	3.82	1277.00
2/2	56	4.23	0.15	11.4	0.18	1.10	0.00	0.15	0.0754	56.2	0.516	40.8	0.59	0.76	187.04	3.58	1280.58
2/3	57	5.14	0.15	11.3	0.16	1.01	0.00	0.20	0.0757	56.4	0.518	40.9	0.60	0.82	187.87	4.43	1285.01
2/4	58	5.60	0.15	11.4	0.13	0.84	0.00	0.19	0.0760	56.6	0.519	41.0	0.62	0.73	188.59	3.68	1288.69
2/5	59	4.96	0.15	11.4	0.13	0.86	0.00	0.16	0.0763	56.9	0.521	41.2	0.63	0.64	189.24	3.30	1291.99
2/6	60	5.14	0.10	11.2	0.14	0.92	0.00	0.24	0.0766	57.1	0.522	41.3	0.65	0.72	189.96	3.91	1295.90
2/7	61	5.05	0.10	11.3	0.12	0.82	0.00	0.23	0.0768	57.2	0.524	41.4	0.67	0.61	190.56	2.92	1298.82
2/8	62	4.63	0.10	11.4	0.12	0.78	0.00	0.20	0.0770	57.4	0.525	41.5	0.70	0.56	191.12	2.44	1301.25
2/9	63	5.27	0.10	11.3	0.11	0.79	0.00	0.23	0.0773	57.6	0.526	41.6	0.72	0.58	191.70	3.14	1304.40
2/10	64	3.44	0.15	11.3	0.11	0.79	0.00	0.10	0.0774	57.7	0.526	41.6	0.74	0.38	192.08	1.54	1305.94
2/11	65	6.06	0.05	11.4	0.10	0.71	0.00	0.18	0.0777	57.9	0.528	41.7	0.77	0.61	192.68	3.79	1309.74
2/12	66	5.02	0.10	11.1	0.10	0.62	0.01	0.18	0.0779	58.0	0.529	41.8	0.79	0.50	193.19	2.19	1311.93
2/13	67	5.14	0.10	11.2	0.09	0.64	0.00	0.20	0.0780	58.1	0.530	41.9	0.81	0.41	193.60	2.37	1314.30
2/14	68	4.38	0.05	11.1	0.10	0.75	0.00	0.17	0.0782	58.3	0.531	42.0	0.84	0.44	194.04	2.27	1316.57
2/15	69	5.51	0.05	11.2	0.09	0.72	0.00	0.24	0.0784	58.4	0.532	42.1	0.87	0.50	194.53	3.10	1319.67
2/16	70	5.05	0.10	11.2	0.09	0.66	0.00	0.23	0.0786	58.6	0.533	42.1	0.89	0.45	194.99	2.11	1321.78
2/17	71	4.90	0.10	11.1	0.09	0.70	0.00	0.19	0.0788	58.7	0.534	42.2	0.91	0.44	195.43	2.26	1324.03
2/18	72	4.69	0.10	11.1	0.09	0.75	0.00	0.19	0.0789	58.8	0.535	42.3	0.93	0.42	195.85	2.55	1326.58
2/19	73	5.14	0.15	11.1	0.09	0.75	0.00	0.21	0.0791	58.9	0.536	42.4	0.95	0.46	196.31	2.89	1329.47
2/20	74	3.99	0.15	10.8	0.11	0.89	0.00	0.18	0.0793	59.1	0.537	42.5	0.96	0.44	196.75	2.48	1331.95
2/21	75	5.61	0.15	11.1	0.11	0.87	0.00	0.26	0.0796	59.3	0.538	42.5	0.98	0.62	197.37	3.96	1335.91
2/22	76	5.37	0.15	11.1	0.09	0.73	0.00	0.21	0.0798	59.5	0.540	42.7	0.99	0.48	197.85	2.59	1338.50
2/23	77		Rest Cycle														
3/8	90																
3/9	91	4.18	0.00	10.0	0.53	3.42	0.00	0.32	0.0806	60.1	0.545	43.1	1.03	2.22	200.07	14.30	1352.80
3/10	92	5.21	0.15	11.1	0.25	2.02	0.00	0.36	0.0812	60.5	0.549	43.4	1.04	1.30	201.37	8.89	1361.69
3/11	93	4.93	0.20	11.1	0.10	0.95	0.00	0.33	0.0814	60.7	0.550	43.5	1.05	0.49	201.86	2.85	1364.54
3/12	94	5.11	0.20	11.1	0.10	0.95	0.00	0.41	0.0816	60.8	0.551	43.6	1.05	0.51	202.37	3.17	1367.71
3/13	95	4.92	0.20	11.1	0.10	0.95	0.00	0.43	0.0818	61.0	0.552	43.6	1.06	0.49	202.87	2.58	1370.29
3/14	96	5.15	0.20	11.0	0.10	0.98	0.00	0.48	0.0820	61.1	0.553	43.7	1.07	0.52	203.38	2.85	1373.15
3/15	97	3.52	0.15	11.0	0.11	1.09	0.00	0.32	0.0821	61.2	0.554	43.8	1.09	0.39	203.77	1.39	1374.54
3/16	98		Rest Cycle														
3/29	111																
3/30	112	5.99	0.00	10.2	0.34	2.56	0.00	0.03	0.0830	61.8	0.560	44.3	1.13	2.04	205.80	15.33	1389.87
3/31	113	4.69	0.20	10.9	0.14	1.25	0.00	0.00	0.0832	62.0	0.563	44.5	1.13	0.66	206.46	5.71	1395.58
4/1	114	5.17	0.15	10.7	0.08	0.69	0.00	0.00	0.0834	62.1	0.564	44.6	1.15	0.41	206.87	3.57	1399.15
4/2	115	4.68	0.15	10.6	0.09	0.64	0.00	0.01	0.0836	62.3	0.565	44.7	1.16	0.42	207.30	3.00	1402.14
4/3	116	5.15	0.15	10.8	0.08	0.53	0.00	0.01	0.0837	62.4	0.566	44.7	1.18	0.41	207.71	2.68	1404.82
4/4	117	5.20	0.20	10.8	0.07	0.46	0.00	0.00	0.0839	62.5	0.567	44.8	1.19	0.36	208.07	2.34	1407.16
4/5	118	4.51	0.15	10.8	0.09	0.54	0.00	0.01	0.0840	62.6	0.568	44.9	1.20	0.41	208.48	2.44	1409.60
4/6	119		Rest Cycle														
4/19	132																
4/20	133	4.75	0.00	10.1	0.18	1.34	0.00	0.02	0.0844	62.9	0.571	45.1	1.24	0.86	209.33	6.37	1415.96
4/21	134	4.66	0.10	11.0	0.04	0.96	0.00	0.02	0.0845	63.0	0.573	45.3	1.26	0.19	209.52	4.37	1420.33
4/22	135	5.17	0.20	11.2	0.08	0.57	0.00	0.03	0.0846	63.0	0.574	45.4	1.27	0.41	209.93	2.84	1423.18
4/23	136	4.63	0.20	10.7	0.08	0.51	0.00	0.02	0.0848	63.2	0.575	45.5	1.28	0.37	210.30	2.21	1425.39
4/24	137	5.25	0.20	10.5	0.08	0.44	0.00	0.03	0.0849	63.3	0.575	45.5	1.28	0.42	210.72	2.21	1427.60
4/25	138	4.59	0.25	10.5	0.10	0.56	0.00	0.03	0.0851	63.4	0.576	45.5	1.29	0.46	211.18	2.42	1430.01
4/26	139	5.24	0.15	10.6	0.08	0.54	0.00	0.04	0.0853	63.6	0.577	45.6	1.30	0.42	211.60	2.68	1432.69
4/27	140		Rest Cycle														

3439 P-5

Ore Charge				NaCN added	123.67	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	1.29	lb/ton ore				Au	Ag
72.36	kg	0.072	mt								
159.52	lb	0.0798	ton		12.0	lbs Cement/ton of ore					
									Avg. Head	0.172	1.13
									Head Screen	0.1398	1.18
									Tail Screen	0.0479	0.680
									Tail Assay		

Daily Column Leach Test Data,
Sample I.D. HM-010 (HG)
Test Conditions,

Feed Size, 80% minus 1"

			Pregnant Solution Analyses				Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
5/10	153																
5/11	154	4.75	0.00	10.5	0.29	1.68	0.00	0.04	0.0858	63.9	0.581	45.9	1.34	1.38	212.98	7.98	1440.67
			Rinse Cycle														
5/12	155	4.02	0.10	11.3	0.14	1.06	0.00	0.04	0.0861	64.2	0.582	46.0	1.34	0.56	213.54	4.26	1444.93
5/13	156	5.57	0.20	10.9	0.05	0.53	0.00	0.01	0.0862	64.2	0.584	46.2	1.34	0.28	213.82	2.75	1447.68
5/14	157	4.26	0.05	11.2	0.02	0.39	0.00	0.05	0.0862	64.2	0.584	46.2	1.34	0.09	213.91	1.66	1449.34
5/15	158	4.78	0.00	11.5	0.04	0.24	0.00	0.10	0.0863	64.3	0.585	46.2	1.32	0.19	214.10	1.15	1450.49
5/16	159	4.41	0.00	11.5	0.02	0.07	0.00	0.12	0.0863	64.3	0.585	46.2	1.29	0.09	214.18	0.31	1450.80
			Drain Down														

Extracted, oz/ton of ore	**0.0863**	**64.3**	**0.585**	**46.2**
Estimated Tail , oz/ton of ore	**0.0479**		**0.680**	
Calculated Head, oz/ton of ore	**0.1342**		**1.265**	

3439 P-6

Ore Charge				NaCN added	139.95	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	1.68	lb/ton ore				Au	Ag
69.34	kg	0.069	mt								
152.87	lb	0.0764	ton		12.0	lbs Cement/ton of ore				Avg. Head	0.018	0.68
										Head Screen	0.0150	0.70
										Tail Screen	0.0034	0.228
										Tail Assay		

Daily Column Leach Test Data,
Sample I.D. HM-011 (LG)
Test Conditions,

Feed Size, 80% minus 1"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
12/9	1												0.00	0.00	0.00	0.00	0.00
12/10	2	2.98	0.00	10.8	0.58	14.75	0.00	0.01	0.0007	4.2	0.018	2.7	0.04	1.73	1.73	43.96	43.96
12/11	3	4.11	0.05	11.7	1.48	71.00	0.00	0.01	0.0033	19.8	0.141	21.3	0.07	6.08	7.81	291.76	335.71
12/12	4	5.48	0.10	11.2	1.23	40.80	0.00	0.00	0.0061	36.5	0.235	35.5	0.09	6.74	14.55	223.53	559.25
12/13	5	5.34	0.20	11.3	0.59	14.55	0.00	0.01	0.0074	44.3	0.268	40.5	0.10	3.15	17.70	77.70	636.94
12/14	6	5.00	0.20	11.2	0.36	7.83	0.00	0.01	0.0082	49.1	0.284	42.9	0.10	1.80	19.50	39.10	676.04
12/15	7	4.67	0.15	11.3	0.24	5.19	0.00	0.01	0.0087	52.1	0.295	44.6	0.12	1.12	20.62	24.19	700.23
12/16	8	5.06	0.20	11.2	0.17	3.74	0.00	0.00	0.0090	53.9	0.302	45.6	0.13	0.86	21.48	18.87	719.10
12/17	9	4.68	0.20	11.2	0.15	3.46	0.00	0.01	0.0093	55.7	0.309	46.7	0.14	0.70	22.19	16.19	735.30
12/18	10	4.50	0.20	11.3	0.13	1.92	0.00	0.01	0.0096	57.5	0.313	47.3	0.15	0.59	22.77	8.59	743.88
12/19	11	5.21	0.20	11.3	0.10	2.62	0.00	0.02	0.0098	58.7	0.319	48.2	0.16	0.52	23.29	13.60	757.48
12/20	12	4.93	0.20	11.2	0.09	2.11	0.00	0.01	0.0100	59.9	0.323	48.8	0.16	0.44	23.73	10.30	767.78
12/21	13	4.94	0.20	11.3	0.08	2.02	0.00	0.02	0.0102	61.1	0.327	49.4	0.17	0.40	24.13	9.93	777.71
12/22	14	4.40	0.20	11.1	0.06	1.64	0.00	0.01	0.0103	61.7	0.330	49.8	0.18	0.26	24.39	7.11	784.83
12/23	15	4.85	0.20	11.4	0.07	1.43	0.00	0.01	0.0104	62.3	0.333	50.3	0.19	0.34	24.73	6.88	791.71
12/24	16	5.00	0.20	11.4	0.06	1.36	0.00	0.02	0.0105	62.9	0.336	50.8	0.20	0.30	25.03	6.75	798.46
12/25	17	5.12	0.20	11.4	0.06	1.20	0.00	0.02	0.0107	64.1	0.338	51.1	0.21	0.31	25.34	6.04	804.50
12/26	18	5.59	0.20	11.4	0.05	1.08	0.00	0.02	0.0108	64.7	0.341	51.5	0.21	0.28	25.62	5.94	810.44
12/27	19	5.39	0.20	11.6	0.05	1.13	0.00	0.02	0.0109	65.3	0.343	51.8	0.22	0.27	25.89	5.99	816.43
12/28	20	4.19	0.25	11.3	0.05	1.26	0.00	0.02	0.0110	65.9	0.346	52.3	0.23	0.21	26.10	5.18	821.60
12/29	21	4.96	0.20	11.6	0.04	1.20	0.00	0.03	0.0111	66.5	0.348	52.6	0.23	0.20	26.30	5.85	827.45
12/30	22	4.00	0.20	11.8	0.04	1.21	0.00	0.03	0.0111	66.5	0.350	52.9	0.25	0.16	26.46	4.69	832.14
12/31	23	5.18	0.25	11.4	0.04	0.94	0.00	0.04	0.0112	67.1	0.352	53.2	0.25	0.21	26.66	4.72	836.86
1/1	24	4.32	0.25	11.6	0.04	0.98	0.00	0.03	0.0113	67.7	0.354	53.5	0.25	0.17	26.84	4.03	840.89
1/2	25	5.23	0.15	11.6	0.04	1.02	0.00	0.04	0.0114	68.3	0.356	53.8	0.27	0.21	27.05	5.18	846.07
1/3	26	5.22	0.20	11.4	0.03	0.82	0.00	0.05	0.0114	68.3	0.358	54.1	0.27	0.16	27.20	4.08	850.14
1/4	27	4.38	0.25	11.8	0.03	0.91	0.00	0.03	0.0115	68.9	0.359	54.2	0.28	0.13	27.33	3.73	853.87
1/5	28	5.10	0.25	11.7	0.03	0.82	0.00	0.04	0.0116	69.5	0.361	54.5	0.28	0.15	27.49	4.03	857.90
1/6	29	4.80	0.25	11.7	0.02	0.73	0.00	0.04	0.0116	69.5	0.362	54.7	0.28	0.10	27.58	3.30	861.20
1/7	30	5.16	0.20	11.8	0.02	0.62	0.00	0.04	0.0116	69.5	0.364	55.0	0.29	0.10	27.69	3.00	864.20
1/8	31	4.89	0.15	11.8	0.02	0.62	0.00	0.04	0.0117	70.1	0.365	55.1	0.30	0.10	27.78	2.83	867.03
1/9	32	4.60	0.20	11.7	0.02	0.62	0.00	0.04	0.0117	70.1	0.366	55.3	0.32	0.09	27.88	2.65	869.67
1/10	33	4.79	0.20	11.7	0.02	0.67	0.00	0.04	0.0118	70.7	0.367	55.4	0.32	0.10	27.97	3.01	872.68
1/11	34	5.64	0.20	11.8	0.02	0.64	0.00	0.05	0.0118	70.7	0.369	55.7	0.33	0.11	28.09	3.41	876.09
1/12	35	4.05	0.20	11.7	0.02	0.71	0.00	0.05	0.0118	70.7	0.370	55.9	0.34	0.08	28.17	2.62	878.71
1/13	36	5.52	0.25	11.8	0.02	0.76	0.00	0.07	0.0119	71.3	0.371	56.0	0.34	0.11	28.28	3.94	882.65
1/14	37	4.76	0.20	11.7	0.03	0.72	0.00	0.08	0.0120	71.9	0.373	56.3	0.35	0.14	28.42	3.07	885.72
1/15	38	5.50	0.15	11.6	0.02	0.65	0.00	0.09	0.0120	71.9	0.374	56.5	0.36	0.11	28.53	3.17	888.88
1/16	39	4.08	0.20	11.6	0.02	0.71	0.00	0.07	0.0120	71.9	0.375	56.6	0.38	0.08	28.61	2.44	891.32
1/17	40	2.08	0.20	11.4	0.02	0.77	0.00	0.07	0.0121	72.5	0.376	56.8	0.38	0.04	28.65	1.48	892.80
1/18	41	4.24	0.25	11.7	0.03	1.02	0.00	0.07	0.0121	72.5	0.377	56.9	0.38	0.13	28.78	3.97	896.77
1/19	42	5.58	0.15	11.6	0.02	0.66	0.00	0.09	0.0122	73.1	0.379	57.3	0.39	0.11	28.89	3.33	900.10
1/20	43	4.26	0.15	11.5	0.01	0.55	0.00	0.07	0.0122	73.1	0.379	57.3	0.41	0.04	28.93	1.88	901.98
1/21	44	5.34	0.20	11.6	0.02	0.53	0.00	0.14	0.0122	73.1	0.380	57.4	0.42	0.11	29.04	2.47	904.45
1/22	45	5.28	0.15	11.5	0.02	0.48	0.00	0.09	0.0123	73.7	0.381	57.6	0.43	0.11	29.15	1.82	906.27
1/23	46	4.29	0.20	11.5	0.02	0.59	0.00	0.07	0.0123	73.7	0.382	57.7	0.45	0.09	29.23	2.07	908.35
1/24	47	5.03	0.20	11.6	0.02	0.59	0.00	0.08	0.0123	73.7	0.383	57.9	0.45	0.10	29.33	2.61	910.96
1/25	48	5.18	0.20	11.4	0.01	0.51	0.00	0.10	0.0124	74.3	0.384	58.0	0.46	0.05	29.38	2.23	913.19
1/26	49	5.30	0.20	11.6	0.01	0.48	0.00	0.10	0.0124	74.3	0.385	58.2	0.47	0.05	29.44	2.03	915.23
1/27	50	5.13	0.15	11.5	0.02	0.48	0.00	0.15	0.0124	74.3	0.386	58.3	0.48	0.10	29.54	1.95	917.18
1/28	51	4.81	0.15	11.5	0.01	0.56	0.00	0.13	0.0124	74.3	0.387	58.5	0.50	0.05	29.59	1.93	919.11
1/29	52	5.11	0.15	11.5	0.01	0.55	0.00	0.15	0.0125	74.9	0.388	58.6	0.51	0.05	29.64	2.15	921.25

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Ore Charge				NaCN added	139.95	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	1.68	lb/ton ore				Au	Ag
69.34	kg	0.069	mt								
152.87	lb	0.0764	ton		12.0	lbs Cement/ton of ore					
									Avg. Head	0.018	0.68
									Head Screen	0.0150	0.70
									Tail Screen	0.0034	0.228
									Tail Assay		

Daily Column Leach Test Data,
Sample I.D. HM-011 (LG)
Test Conditions,

Feed Size, 80% minus 1"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
1/30	53	4.97	0.15	11.5	0.01	0.53	0.00	0.13	0.0125	74.9	0.388	58.6	0.53	0.05	29.69	1.87	923.12
1/31	54	4.87	0.15	11.7	0.01	0.49	0.00	0.13	0.0125	74.9	0.389	58.8	0.54	0.05	29.74	1.72	924.85
2/1	55	4.81	0.10	11.0	0.01	0.46	0.00	0.13	0.0125	74.9	0.390	58.9	0.57	0.05	29.79	1.55	926.40
2/2	56	4.45	0.10	11.6	0.01	0.47	0.00	0.09	0.0125	74.9	0.390	58.9	0.59	0.04	29.83	1.43	927.82
2/3	57	5.25	0.10	11.6	0.01	0.42	0.00	0.11	0.0126	75.4	0.391	59.1	0.61	0.05	29.88	1.75	929.57
2/4	58	5.21	0.15	11.6	0.01	0.36	0.00	0.09	0.0126	75.4	0.392	59.2	0.63	0.05	29.94	1.31	930.88
2/5	59	4.92	0.15	11.5	0.01	0.39	0.00	0.08	0.0126	75.4	0.392	59.2	0.64	0.05	29.98	1.46	932.34
2/6	60	5.02	0.15	11.5	0.01	0.45	0.00	0.14	0.0126	75.4	0.393	59.4	0.66	0.05	30.03	1.85	934.20
2/7	61	3.83	0.10	11.4	0.01	0.46	0.00	0.09	0.0126	75.4	0.393	59.4	0.68	0.04	30.07	1.05	935.24
2/8	62	5.14	0.10	11.6	0.01	0.45	0.00	0.13	0.0127	76.0	0.394	59.5	0.71	0.05	30.12	1.85	937.10
2/9	63	5.87	0.15	11.5	0.01	0.35	0.00	0.15	0.0127	76.0	0.395	59.7	0.72	0.06	30.18	1.39	938.49
2/10	64	4.00	0.15	11.5	0.01	0.41	0.00	0.06	0.0127	76.0	0.395	59.7	0.74	0.04	30.22	0.88	939.36
2/11	65	5.75	0.05	11.6	0.01	0.35	0.00	0.10	0.0127	76.0	0.396	59.8	0.77	0.06	30.28	1.71	941.07
2/12	66	4.90	0.05	11.3	0.01	0.33	0.01	0.10	0.0128	76.6	0.396	59.8	0.80	0.05	30.33	1.11	942.18
2/13	67	5.10	0.10	11.3	0.01	0.35	0.00	0.11	0.0128	76.6	0.397	60.0	0.82	0.00	30.33	1.28	943.45
2/14	68	4.70	0.15	11.3	0.01	0.41	0.00	0.10	0.0128	76.6	0.397	60.0	0.83	0.05	30.38	1.37	944.82
2/15	69	5.15	0.05	11.4	0.01	0.39	0.00	0.14	0.0128	76.6	0.398	60.1	0.86	0.05	30.43	1.50	946.32
2/16	70	5.01	0.10	11.4	0.01	0.34	0.00	0.12	0.0128	76.6	0.398	60.1	0.89	0.05	30.48	0.99	947.31
2/17	71	4.93	0.10	11.3	0.00	0.33	0.00	0.08	0.0128	76.6	0.399	60.3	0.91	0.00	30.48	1.01	948.32
2/18	72	4.85	0.10	11.3	0.01	0.34	0.00	0.10	0.0128	76.6	0.399	60.3	0.93	0.05	30.53	1.24	949.56
2/19	73	5.07	0.10	11.3	0.00	0.31	0.00	0.10	0.0128	76.6	0.400	60.4	0.95	0.00	30.53	1.06	950.62
2/20	74	4.37	0.10	11.1	0.01	0.38	0.00	0.09	0.0129	77.2	0.400	60.4	0.98	0.04	30.57	1.15	951.77
2/21	75	5.33	0.10	11.2	0.01	0.36	0.00	0.12	0.0129	77.2	0.401	60.6	1.00	0.05	30.62	1.46	953.23
2/22	76	4.67	0.10	11.1	0.01	0.38	0.00	0.13	0.0129	77.2	0.401	60.6	1.02	0.05	30.67	1.16	954.40
2/23	77		Rest Cycle														
3/8	90																
3/9	91	4.33	0.00	9.5	0.04	1.98	0.00	0.14	0.0130	77.8	0.405	61.2	1.06	0.17	30.84	8.57	962.97
3/10	92	5.36	0.15	11.0	0.01	0.92	0.00	0.18	0.0130	77.8	0.407	61.5	1.07	0.05	30.90	4.22	967.19
3/11	93	4.97	0.20	11.0	0.00	0.46	0.00	0.14	0.0130	77.8	0.407	61.5	1.08	0.00	30.90	1.37	968.56
3/12	94	4.87	0.15	11.1	0.00	0.44	0.00	0.20	0.0130	77.8	0.408	61.6	1.10	0.00	30.90	1.43	969.98
3/13	95	4.94	0.15	11.2	0.00	0.40	0.00	0.20	0.0130	77.8	0.408	61.6	1.11	0.00	30.90	0.96	970.94
3/14	96	5.10	0.20	11.0	0.00	0.43	0.00	0.25	0.0130	77.8	0.409	61.8	1.12	0.00	30.90	1.17	972.11
3/15	97	3.79	0.20	11.1	0.00	0.49	0.00	0.18	0.0130	77.8	0.409	61.8	1.14	0.00	30.90	0.58	972.70
3/16	98		Rest Cycle														
3/29	111																
3/30	112	5.67	0.05	10.3	0.03	1.46	0.00	0.07	0.0131	78.4	0.413	62.4	1.17	0.17	31.07	8.28	980.97
3/31	113	4.68	0.10	10.7	0.01	0.86	0.00	0.00	0.0131	78.4	0.414	62.5	1.19	0.05	31.11	3.67	984.64
4/1	114	5.16	0.15	10.6	0.00	0.35	0.00	0.00	0.0131	78.4	0.415	62.7	1.20	0.00	31.11	1.81	986.45
4/2	115	4.70	0.15	10.4	0.00	0.31	0.00	0.00	0.0131	78.4	0.416	62.8	1.22	0.00	31.11	1.46	987.90
4/3	116	5.10	0.15	10.9	0.00	0.22	0.00	0.00	0.0131	78.4	0.416	62.8	1.23	0.00	31.11	1.12	989.03
4/4	117	5.18	0.15	10.8	0.00	0.19	0.00	0.00	0.0131	78.4	0.416	62.8	1.25	0.00	31.11	0.98	990.01
4/5	118	4.49	0.10	10.8	0.00	0.22	0.00	0.00	0.0131	78.4	0.417	63.0	1.27	0.00	31.11	0.99	991.00
4/6	119		Rest Cycle														
4/19	132																
4/20	133	4.64	0.00	9.5	0.02	0.92	0.00	0.01	0.0131	78.4	0.419	63.3	1.31	0.09	31.21	4.27	995.27
4/21	134	4.65	0.15	10.4	0.01	0.56	0.00	0.00	0.0131	78.4	0.420	63.4	1.33	0.05	31.25	2.55	997.82
4/22	135	5.16	0.20	10.9	0.00	0.29	0.00	0.00	0.0131	78.4	0.420	63.4	1.33	0.00	31.25	1.50	999.32
4/23	136	4.64	0.15	10.5	0.00	0.23	0.00	0.00	0.0131	78.4	0.421	63.6	1.35	0.00	31.25	1.07	1000.38
4/24	137	5.23	0.15	10.5	0.00	0.18	0.00	0.01	0.0131	78.4	0.421	63.6	1.37	0.00	31.25	0.94	1001.33
4/25	138	4.73	0.15	10.3	0.00	0.23	0.00	0.01	0.0131	78.4	0.422	63.7	1.38	0.00	31.25	1.04	1002.36
4/26	139	5.14	0.15	10.5	0.00	0.22	0.00	0.01	0.0131	78.4	0.422	63.7	1.40	0.00	31.25	1.08	1003.44
4/27	140		Rest Cycle														

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Ore Charge				NaCN added	139.95	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	1.68	lb/ton ore				Au	Ag
69.34	kg	0.069	mt								
152.87	lb	0.0764	ton		12.0	lbs Cement/ton of ore					
									Avg. Head	0.018	0.68
									Head Screen	0.0150	0.70
									Tail Screen	0.0034	0.228
									Tail Assay		

Daily Column Leach Test Data,

Sample I.D. HM-011 (LG)

Test Conditions,

Feed Size, 80% minus 1"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
5/10	153																
5/11	154	4.63	0.00	9.7	0.02	1.07	0.00	0.01	0.0132	79.0	0.424	64.0	1.43	0.09	31.35	4.95	1008.40
5/12	155	3.69	0.10	10.5	0.00	0.68	0.00	0.00	0.0132	79.0	0.425	64.2	1.46	0.00	31.35	2.46	1010.85
5/13	156	4.53	0.05	10.5	0.00	0.29	0.00	0.02	0.0132	79.0	0.426	64.4	1.49	0.00	31.35	1.31	1012.17
5/14	157	6.05	0.10	11.0	0.00	0.21	0.00	0.03	0.0132	79.0	0.426	64.4	1.51	0.00	31.35	1.17	1013.34
5/15	158	4.76	0.15	11.1	0.00	0.22	0.00	0.02	0.0132	79.0	0.427	64.5	1.53	0.00	31.35	0.89	1014.23
5/16	159	4.39	0.15	11.1	0.00	0.24	0.00	0.03	0.0132	79.0	0.427	64.5	1.54	0.00	31.35	0.95	1015.18
5/17	160	5.48	0.15	11.2	0.00	0.19	0.00	0.03	0.0132	79.0	0.427	64.5	1.56	0.00	31.35	0.89	1016.07
5/18	161		Rest Cycle											0.00	31.35	0.00	1016.07
5/31	174												1.56	0.00	31.35	0.00	1016.07
6/1	175	4.77	0.05	9.8	0.00	0.96	0.00	0.00	0.0132	79.0	0.429	64.8	1.59	0.00	31.35	4.58	1020.65
6/2	176	4.55	0.10	10.7	0.02	0.69	0.00	0.02	0.0132	79.0	0.431	65.1	1.61	0.09	31.44	3.14	1023.79
6/3	177	5.18	0.15	10.9	0.00	0.25	0.00	0.00	0.0132	79.0	0.431	65.1	1.63	0.00	31.44	1.19	1024.98
6/4	178	4.87	0.15	10.8	0.00	0.24	0.00	0.03	0.0132	79.0	0.432	65.3	1.64	0.00	31.44	1.17	1026.15
6/5	179	4.59	0.15	10.9	0.00	0.28	0.00	0.02	0.0132	79.0	0.432	65.3	1.66	0.00	31.44	1.13	1027.28
6/6	180	5.35	0.15	10.8	0.00	0.18	0.00	0.02	0.0132	79.0	0.432	65.3	1.67	0.00	31.44	0.86	1028.14
6/7	181	4.31	0.20	11.0	0.00	0.22	0.00	0.03	0.0132	79.0	0.433	65.4	1.68	0.00	31.44	0.85	1028.99
6/8	182		Rinse Cycle														
6/15	189	1.48	0.05	8.7	0.03	1.04	0.00	0.06	0.0132	79.0	0.433	65.4	1.68	0.04	31.48	1.54	1030.53
6/16	190	3.19	0.00	10.8	0.00	0.26	0.00	0.04	0.0132	79.0	0.434	65.6	1.68	0.00	31.48	0.52	1031.05
6/17	191	5.22	0.00	11.3	0.01	0.34	0.00	0.09	0.0133	79.6	0.434	65.6	1.68	0.05	31.53	1.57	1032.62
			Drain Down														

Extracted, oz/ton of ore	**0.0133**	**79.6**	**0.434**	**65.6**
Estimated Tail , oz/ton of ore	**0.0034**		**0.228**	
Calculated Head, oz/ton of ore	**0.0167**		**0.662**	

3439 P-7

Ore Charge				NaCN added	124.01	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	1.62	lb/ton ore				Au	Ag
73.10	kg	0.073	mt								
161.16	lb	0.0806	ton		12.0	lbs Cement/ton of ore					
									Avg. Head	0.026	0.96
									Head Screen	0.0197	1.17
									Tail Screen	0.0055	0.490
									Tail Assay		

Daily Column Leach Test Data,

Sample I.D. LM-LG (Comp)

Test Conditions,

Feed Size, 80% minus 1"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
12/9	1												0.00	0.00	0.00	0.00	0.00
12/10	2	2.71	0.00	9.9	1.30	12.75	0.00	0.01	0.0014	6.3	0.014	1.7	0.04	3.52	3.52	34.55	34.55
12/11	3	4.02	0.05	11.0	2.30	28.30	0.00	0.01	0.0051	23.1	0.059	7.1	0.06	9.25	12.77	113.72	148.27
12/12	4	5.52	0.20	10.9	1.11	13.10	0.00	0.00	0.0075	33.9	0.088	10.5	0.07	6.13	18.90	72.26	220.53
12/13	5	5.52	0.25	10.9	0.58	9.85	0.00	0.00	0.0088	39.8	0.110	13.2	0.07	3.20	22.10	54.37	274.90
12/14	6	5.05	0.20	10.9	0.40	5.20	0.00	0.00	0.0096	43.4	0.120	14.4	0.07	2.02	24.12	26.26	301.16
12/15	7	4.51	0.15	10.9	0.31	4.62	0.00	0.00	0.0102	46.2	0.128	15.3	0.09	1.40	25.52	20.84	322.00
12/16	8	5.14	0.15	10.8	0.23	3.84	0.00	0.00	0.0107	48.4	0.136	16.3	0.10	1.18	26.70	19.74	341.73
12/17	9	5.15	0.20	10.9	0.19	3.80	0.00	0.01	0.0110	49.8	0.144	17.2	0.11	0.98	27.68	19.57	361.30
12/18	10	4.65	0.15	10.8	0.17	3.98	0.00	0.01	0.0114	51.6	0.152	18.2	0.13	0.79	28.47	18.46	379.76
12/19	11	4.74	0.15	10.8	0.16	3.70	0.00	0.01	0.0117	52.9	0.159	19.0	0.14	0.76	29.23	17.49	397.25
12/20	12	4.85	0.20	10.7	0.13	3.36	0.00	0.01	0.0119	53.8	0.165	19.8	0.15	0.63	29.86	16.25	413.49
12/21	13	4.94	0.20	10.8	0.12	3.40	0.00	0.01	0.0121	54.8	0.172	20.6	0.16	0.59	30.45	16.75	430.24
12/22	14	4.58	0.20	10.5	0.10	2.74	0.00	0.01	0.0123	55.7	0.177	21.2	0.17	0.46	30.91	12.50	442.74
12/23	15	4.79	0.20	10.8	0.10	2.42	0.00	0.01	0.0125	56.6	0.181	21.7	0.18	0.48	31.39	11.54	454.28
12/24	16	5.03	0.15	11.0	0.08	2.23	0.00	0.01	0.0127	57.5	0.186	22.3	0.19	0.40	31.79	11.17	465.44
12/25	17	5.02	0.15	10.9	0.08	1.91	0.00	0.00	0.0128	57.9	0.190	22.8	0.21	0.40	32.19	9.54	474.98
12/26	18	5.72	0.15	11.1	0.07	1.81	0.00	0.00	0.0130	58.8	0.194	23.2	0.22	0.40	32.59	10.35	485.33
12/27	19	5.48	0.20	11.0	0.07	2.00	0.00	0.00	0.0132	59.7	0.198	23.7	0.22	0.38	32.97	10.96	496.29
12/28	20	4.26	0.20	10.8	0.08	2.37	0.00	0.02	0.0133	60.2	0.202	24.2	0.24	0.34	33.31	10.10	506.39
12/29	21	5.03	0.15	11.0	0.06	1.98	0.00	0.00	0.0134	60.6	0.206	24.7	0.25	0.30	33.62	9.86	516.25
12/30	22	5.42	0.15	11.3	0.06	1.76	0.00	0.00	0.0135	61.1	0.210	25.1	0.26	0.33	33.94	9.54	525.79
12/31	23	5.12	0.15	10.9	0.06	1.78	0.00	0.00	0.0137	62.0	0.213	25.5	0.28	0.31	34.25	9.11	534.90
1/1	24	4.13	0.15	10.9	0.06	1.91	0.00	0.01	0.0138	62.4	0.217	26.0	0.29	0.25	34.50	7.89	542.79
1/2	25	5.20	0.20	11.0	0.06	2.05	0.00	0.00	0.0139	62.9	0.221	26.5	0.30	0.31	34.81	10.61	553.40
1/3	26	5.44	0.20	10.8	0.05	1.71	0.00	0.01	0.0140	63.3	0.225	26.9	0.31	0.27	35.08	9.30	562.70
1/4	27	5.23	0.15	11.2	0.05	1.60	0.00	0.01	0.0141	63.8	0.228	27.3	0.32	0.26	35.34	8.32	571.02
1/5	28	5.31	0.15	11.0	0.04	1.54	0.00	0.01	0.0142	64.3	0.231	27.7	0.33	0.21	35.55	8.13	579.14
1/6	29	4.57	0.20	11.0	0.04	1.41	0.00	0.01	0.0143	64.7	0.234	28.0	0.34	0.18	35.74	6.39	585.53
1/7	30	5.43	0.15	11.2	0.04	1.31	0.00	0.01	0.0143	64.7	0.236	28.3	0.36	0.22	35.95	7.06	592.60
1/8	31	4.65	0.15	11.2	0.03	1.28	0.00	0.01	0.0144	65.2	0.239	28.6	0.37	0.14	36.09	5.90	598.50
1/9	32	4.86	0.20	11.1	0.03	1.28	0.00	0.00	0.0145	65.6	0.241	28.9	0.38	0.15	36.24	6.17	604.67
1/10	33	4.75	0.15	11.0	0.03	1.38	0.00	0.00	0.0145	65.6	0.244	29.2	0.40	0.14	36.38	6.56	611.22
1/11	34	5.69	0.20	11.3	0.04	1.19	0.00	0.01	0.0146	66.1	0.247	29.6	0.40	0.23	36.61	6.77	617.99
1/12	35	4.02	0.15	11.0	0.04	1.35	0.00	0.01	0.0147	66.5	0.249	29.8	0.42	0.16	36.77	5.38	623.37
1/13	36	5.74	0.15	11.2	0.03	1.28	0.00	0.01	0.0147	66.5	0.252	30.2	0.43	0.17	36.94	7.30	630.67
1/14	37	4.55	0.15	11.0	0.04	1.26	0.00	0.01	0.0148	67.0	0.254	30.4	0.45	0.18	37.12	5.68	636.35
1/15	38	5.63	0.15	10.9	0.03	1.18	0.00	0.01	0.0149	67.4	0.257	30.8	0.46	0.17	37.29	6.59	642.94
1/16	39	4.21	0.15	11.0	0.03	1.34	0.00	0.02	0.0149	67.4	0.259	31.0	0.48	0.13	37.42	5.59	648.53
1/17	40	4.68	0.15	11.0	0.04	1.29	0.00	0.00	0.0150	67.9	0.261	31.3	0.49	0.19	37.61	5.95	654.48
1/18	41	5.06	0.15	11.1	0.03	1.18	0.00	0.01	0.0151	68.3	0.264	31.6	0.50	0.15	37.76	5.97	660.45
1/19	42	5.81	0.15	11.0	0.03	0.98	0.00	0.02	0.0151	68.3	0.266	31.9	0.51	0.17	37.93	5.64	666.09
1/20	43	4.43	0.20	10.9	0.02	1.12	0.00	0.01	0.0152	68.8	0.268	32.1	0.52	0.09	38.02	4.86	670.95
1/21	44	5.23	0.20	11.0	0.03	1.10	0.00	0.13	0.0152	68.8	0.270	32.3	0.53	0.16	38.18	5.70	676.65
1/22	45	5.25	0.20	10.8	0.03	0.91	0.00	0.01	0.0153	69.2	0.272	32.6	0.54	0.16	38.34	4.11	680.77
1/23	46	4.06	0.15	10.8	0.03	1.14	0.00	0.01	0.0153	69.2	0.273	32.7	0.55	0.12	38.46	4.58	685.35
1/24	47	5.20	0.10	10.9	0.03	1.04	0.00	0.01	0.0154	69.7	0.276	33.1	0.58	0.16	38.61	5.36	690.70
1/25	48	5.03	0.20	10.8	0.02	0.85	0.00	0.01	0.0154	69.7	0.277	33.2	0.58	0.10	38.71	4.22	694.93
1/26	49	5.48	0.20	10.9	0.02	0.92	0.00	0.01	0.0155	70.1	0.279	33.4	0.59	0.11	38.82	4.99	699.92
1/27	50	5.04	0.20	11.0	0.02	0.88	0.00	0.02	0.0155	70.1	0.281	33.7	0.60	0.10	38.93	4.38	704.30
1/28	51	4.74	0.15	11.0	0.02	0.98	0.00	0.01	0.0156	70.6	0.283	33.9	0.61	0.09	39.02	4.54	708.84
1/29	52	5.15	0.15	10.9	0.02	0.84	0.00	0.01	0.0156	70.6	0.285	34.1	0.62	0.10	39.12	4.28	713.12

3439 P-7

Ore Charge				NaCN added	124.01	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	1.62	lb/ton ore				Au	Ag
73.10	kg	0.073	mt								
161.16	lb	0.0806	ton		12.0	lbs Cement/ton of ore					
									Avg. Head	0.026	0.96
									Head Screen	0.0197	1.17
									Tail Screen	0.0055	0.490
									Tail Assay		

Daily Column Leach Test Data,

Sample I.D. LM-LG (Comp)

Test Conditions,

Feed Size, 80% minus 1"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
1/30	53	5.03	0.15	11.0	0.02	0.83	0.00	0.01	0.0157	71.0	0.286	34.3	0.64	0.10	39.22	4.12	717.24
1/31	54	4.84	0.15	10.9	0.02	0.79	0.00	0.02	0.0157	71.0	0.288	34.5	0.65	0.10	39.32	3.77	721.02
2/1	55	4.79	0.10	10.4	0.02	0.78	0.00	0.02	0.0157	71.0	0.289	34.6	0.68	0.10	39.42	3.63	724.65
2/2	56	4.40	0.10	10.9	0.02	0.80	0.00	0.00	0.0158	71.5	0.291	34.9	0.70	0.09	39.50	3.42	728.07
2/3	57	5.26	0.10	11.0	0.02	0.72	0.00	0.00	0.0158	71.5	0.292	35.0	0.72	0.11	39.61	3.79	731.86
2/4	58	5.03	0.15	11.0	0.02	0.67	0.00	0.00	0.0158	71.5	0.293	35.1	0.73	0.10	39.71	3.37	735.23
2/5	59	5.27	0.10	10.9	0.01	0.56	0.00	0.00	0.0159	71.9	0.295	35.3	0.75	0.05	39.76	2.95	738.18
2/6	60	5.09	0.10	10.8	0.02	0.59	0.00	0.02	0.0159	71.9	0.296	35.4	0.78	0.10	39.86	3.00	741.18
2/7	61	5.02	0.05	10.9	0.01	0.50	0.00	0.01	0.0159	71.9	0.297	35.6	0.80	0.05	39.91	2.41	743.59
2/8	62	4.79	0.05	10.9	0.01	0.42	0.00	0.00	0.0159	71.9	0.297	35.6	0.83	0.05	39.96	1.96	745.55
2/9	63	5.15	0.05	10.9	0.01	0.40	0.00	0.00	0.0160	72.4	0.298	35.7	0.86	0.05	40.01	2.06	747.61
2/10	64	3.86	0.05	10.8	0.01	0.39	0.00	0.00	0.0160	72.4	0.299	35.8	0.89	0.04	40.05	1.51	749.11
2/11	65	5.82	0.00	11.1	0.01	0.30	0.00	0.00	0.0160	72.4	0.300	35.9	0.93	0.06	40.11	1.75	750.86
2/12	66	4.97	0.05	10.7	0.01	0.29	0.01	0.00	0.0160	72.4	0.300	35.9	0.95	0.05	40.16	1.44	752.30
2/13	67	5.12	0.05	10.8	0.01	0.27	0.00	0.00	0.0160	72.4	0.301	36.0	0.98	0.00	40.16	1.38	753.68
2/14	68	4.68	0.00	10.8	0.01	0.31	0.00	0.00	0.0160	72.4	0.301	36.0	1.02	0.05	40.21	1.45	755.13
2/15	69	5.20	0.05	10.7	0.01	0.27	0.00	0.00	0.0161	72.9	0.302	36.2	1.04	0.05	40.26	1.40	756.54
2/16	70	5.02	0.05	10.8	0.01	0.27	0.00	0.00	0.0161	72.9	0.302	36.2	1.07	0.05	40.31	1.36	757.89
2/17	71	4.93	0.00	10.6	0.01	0.22	0.00	0.00	0.0161	72.9	0.303	36.3	1.11	0.05	40.36	1.08	758.98
2/18	72	4.83	0.10	10.6	0.00	0.24	0.00	0.00	0.0161	72.9	0.303	36.3	1.13	0.00	40.36	1.16	760.14
2/19	73	5.05	0.00	10.6	0.01	0.26	0.00	0.00	0.0161	72.9	0.304	36.4	1.16	0.05	40.41	1.31	761.45
2/20	74	4.15	0.05	10.3	0.01	0.29	0.00	0.00	0.0161	72.9	0.304	36.4	1.19	0.04	40.45	1.20	762.65
2/21	75	5.62	0.05	10.6	0.01	0.28	0.00	0.00	0.0162	73.3	0.305	36.5	1.22	0.06	40.51	1.57	764.23
2/22	76	5.16	0.05	10.7	0.01	0.29	0.00	0.00	0.0162	73.3	0.306	36.6	1.25	0.05	40.56	1.50	765.72
2/23	77		Rest Cycle														
3/8	90																
3/9	91	4.39	0.00	9.6	0.03	1.53	0.00	0.02	0.0162	73.3	0.308	36.9	1.28	0.13	40.69	6.72	772.44
3/10	92	5.04	0.10	10.7	0.01	0.78	0.00	0.02	0.0163	73.8	0.310	37.1	1.31	0.05	40.74	3.83	776.27
3/11	93	4.99	0.20	10.7	0.00	0.64	0.00	0.03	0.0163	73.8	0.311	37.2	1.31	0.00	40.74	3.09	779.36
3/12	94	5.02	0.20	10.8	0.01	0.69	0.00	0.04	0.0163	73.8	0.312	37.4	1.32	0.05	40.79	3.31	782.67
3/13	95	4.94	0.20	10.8	0.01	0.66	0.00	0.04	0.0163	73.8	0.314	37.6	1.33	0.05	40.84	3.06	785.73
3/14	96	4.21	0.15	10.6	0.01	0.70	0.00	0.02	0.0163	73.8	0.315	37.7	1.35	0.04	40.88	2.74	788.47
3/15	97	4.66	0.15	10.7	0.01	0.77	0.00	0.05	0.0163	73.8	0.316	37.8	1.36	0.05	40.93	3.49	791.96
3/16	98		Rest Cycle														
3/29	111																
3/30	112	5.72	0.00	9.7	0.05	2.26	0.00	0.05	0.0164	74.2	0.321	38.4	1.40	0.29	41.22	12.93	804.89
3/31	113	4.77	0.15	10.4	0.02	1.37	0.00	0.04	0.0165	74.7	0.324	38.8	1.41	0.10	41.31	6.28	811.17
4/1	114	5.20	0.20	10.4	0.00	0.61	0.00	0.04	0.0165	74.7	0.325	38.9	1.42	0.00	41.31	2.97	814.13
4/2	115	4.76	0.15	10.3	0.00	0.71	0.00	0.05	0.0165	74.7	0.326	39.0	1.43	0.00	41.31	3.18	817.31
4/3	116	5.12	0.15	10.5	0.00	0.55	0.00	0.05	0.0165	74.7	0.327	39.2	1.45	0.00	41.31	2.56	819.87
4/4	117	5.17	0.10	10.3	0.00	0.51	0.00	0.06	0.0165	74.7	0.328	39.3	1.47	0.00	41.31	2.38	822.25
4/5	118	4.55	0.10	10.4	0.00	0.63	0.00	0.05	0.0165	74.7	0.329	39.4	1.49	0.00	41.31	2.56	824.81
4/6	119		Rest Cycle														
4/19	132																
4/20	133	4.74	0.00	9.6	0.02	1.42	0.00	0.05	0.0165	74.7	0.332	39.8	1.53	0.09	41.41	6.73	831.54
4/21	134	4.74	0.15	10.6	0.02	1.10	0.00	0.04	0.0166	75.1	0.334	40.0	1.54	0.09	41.50	4.96	836.50
4/22	135	5.13	0.15	10.7	0.00	0.70	0.00	0.06	0.0166	75.1	0.335	40.1	1.56	0.00	41.50	3.39	839.89
4/23	136	4.73	0.15	10.4	0.00	0.57	0.00	0.05	0.0166	75.1	0.336	40.2	1.57	0.00	41.50	2.39	842.28
4/24	137	5.18	0.15	10.2	0.00	0.50	0.00	0.06	0.0166	75.1	0.337	40.4	1.59	0.00	41.50	2.34	844.61
4/25	138	4.62	0.25	10.3	0.01	0.69	0.00	0.07	0.0166	75.1	0.338	40.5	1.59	0.05	41.55	2.88	847.50
4/26	139	5.22	0.15	10.3	0.00	0.61	0.00	0.08	0.0166	75.1	0.339	40.6	1.60	0.00	41.55	2.83	850.32
4/27	140		Rest Cycle														

3439 P-7

Ore Charge				NaCN added	124.01	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	1.62	lb/ton ore				Au	Ag
73.10	kg	0.073	mt								
161.16	lb	0.0806	ton		12.0	lbs Cement/ton of ore					
									Avg. Head	0.026	0.96
									Head Screen	0.0197	1.17
									Tail Screen	0.0055	0.490
									Tail Assay		

Daily Column Leach Test Data,

Sample I.D. LM-LG (Comp)

Test Conditions,

Feed Size, 80% minus 1"

			Pregnant Solution Analyses				Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
5/10	153																
5/11	154	4.73	0.00	9.9	0.03	1.43	0.00	0.07	0.0166	75.1	0.342	41.0	1.64	0.14	41.69	6.76	857.09
			Rinse Cycle														
5/12	155	4.09	0.15	10.6	0.00	1.09	0.00	0.06	0.0166	75.1	0.344	41.2	1.64	0.00	41.69	4.46	861.55
5/13	156	5.53	0.00	10.6	0.00	0.30	0.00	0.05	0.0166	75.1	0.344	41.2	1.64	0.00	41.69	1.35	862.90
5/14	157	4.57	0.00	11.0	0.00	0.19	0.00	0.20	0.0166	75.1	0.345	41.3	1.64	0.00	41.69	0.87	863.77
5/15	158	4.84	0.00	11.3	0.00	0.05	0.00	0.21	0.0166	75.1	0.345	41.3	1.62	0.00	41.69	0.24	864.01
5/16	159	4.54	0.00	11.3	0.00	0.02	0.00	0.19	0.0166	75.1	0.345	41.3	1.62	0.00	41.69	0.09	864.10
			Drain Down														

Extracted, oz/ton of ore	**0.0166**	**75.1**	**0.345**	**41.3**
Estimated Tail , oz/ton of ore	**0.0055**		**0.490**	
Calculated Head, oz/ton of ore	**0.0221**		**0.835**	

3439 P-8

Ore Charge				NaCN added	123.53	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	1.56	lb/ton ore				Au	Ag
72.63	kg	0.073	mt								
160.12	lb	0.0801	ton		12.0	lbs Cement/ton of ore					
									Avg. Head	0.014	0.30
									Head Screen	0.0385	0.20
									Tail Screen	0.0038	0.078
									Tail Assay		

Daily Column Leach Test Data,

Sample I.D. LM-006, 007 (LG)

Test Conditions,

Feed Size, 80% minus 1"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
12/9	1												0.00	0.00	0.00	0.00	0.00
12/10	2	2.59	0.00	9.8	1.39	8.80	0.00	0.00	0.0014	6.6	0.009	4.7	0.04	3.60	3.60	22.79	22.79
12/11	3	4.66	0.15	11.0	1.57	10.80	0.00	0.00	0.0044	20.7	0.029	15.1	0.05	7.32	10.92	50.33	73.12
12/12	4	5.32	0.20	10.9	0.82	5.38	0.00	0.00	0.0061	28.6	0.041	21.4	0.06	4.36	15.28	28.62	101.74
12/13	5	5.18	0.15	10.9	0.53	2.74	0.00	0.00	0.0072	33.8	0.047	24.5	0.07	2.75	18.02	14.19	115.93
12/14	6	4.77	0.15	11.0	0.45	2.19	0.00	0.00	0.0081	38.0	0.051	26.6	0.09	2.15	20.17	10.45	126.38
12/15	7	5.02	0.25	11.0	0.31	1.77	0.00	0.00	0.0087	40.8	0.054	28.1	0.09	1.56	21.73	8.89	135.27
12/16	8	5.01	0.20	12.0	0.26	1.51	0.00	0.00	0.0092	43.2	0.057	29.7	0.09	1.30	23.03	7.57	142.83
12/17	9	5.01	0.20	10.9	0.22	1.21	0.00	0.00	0.0097	45.5	0.060	31.3	0.10	1.10	24.13	6.06	148.89
12/18	10	4.44	0.20	10.8	0.23	1.26	0.00	0.01	0.0101	47.4	0.062	32.3	0.11	1.02	25.15	5.59	154.49
12/19	11	5.21	0.20	10.8	0.19	1.05	0.00	0.00	0.0105	49.3	0.064	33.3	0.12	0.99	26.14	5.42	159.91
12/20	12	5.12	0.15	10.7	0.14	0.85	0.00	0.00	0.0108	50.7	0.066	34.4	0.13	0.72	26.86	4.35	164.26
12/21	13	4.81	0.15	10.8	0.13	0.82	0.00	0.00	0.0110	51.6	0.068	35.4	0.15	0.63	27.48	3.94	168.20
12/22	14	4.46	0.15	10.5	0.12	0.76	0.00	0.00	0.0113	53.1	0.069	35.9	0.17	0.54	28.02	3.39	171.59
12/23	15	4.78	0.25	10.7	0.13	0.75	0.00	0.00	0.0115	54.0	0.070	36.5	0.17	0.62	28.64	3.59	175.18
12/24	16	5.96	0.20	11.0	0.10	0.64	0.00	0.00	0.0117	54.9	0.072	37.5	0.17	0.60	29.24	3.81	178.99
12/25	17	4.10	0.15	11.0	0.10	0.58	0.00	0.00	0.0119	55.9	0.073	38.0	0.19	0.41	29.65	2.38	181.37
12/26	18	5.87	0.20	11.0	0.10	0.50	0.00	0.00	0.0121	56.8	0.074	38.5	0.19	0.59	30.23	2.94	184.31
12/27	19	4.35	0.15	11.0	0.10	0.58	0.00	0.00	0.0123	57.7	0.075	39.1	0.21	0.44	30.67	2.52	186.83
12/28	20	5.37	0.20	10.8	0.10	0.65	0.00	0.00	0.0125	58.7	0.076	39.6	0.22	0.54	31.21	3.49	190.32
12/29	21	5.43	0.20	11.1	0.08	0.51	0.00	0.00	0.0127	59.6	0.078	40.6	0.22	0.43	31.64	2.77	193.09
12/30	22	4.58	0.15	11.2	0.08	0.57	0.00	0.00	0.0129	60.6	0.079	41.1	0.24	0.37	32.01	2.61	195.70
12/31	23	4.77	0.20	10.9	0.08	0.54	0.00	0.00	0.0130	61.0	0.080	41.7	0.25	0.38	32.39	2.58	198.28
1/1	24	5.36	0.15	11.0	0.07	0.48	0.00	0.00	0.0132	62.0	0.081	42.2	0.26	0.38	32.76	2.57	200.85
1/2	25	4.22	0.15	11.0	0.09	0.60	0.00	0.02	0.0133	62.4	0.082	42.7	0.28	0.38	33.14	2.53	203.38
1/3	26	5.83	0.20	10.8	0.06	0.43	0.00	0.00	0.0135	63.4	0.083	43.2	0.28	0.35	33.49	2.40	205.78
1/4	27	4.65	0.20	11.1	0.07	0.51	0.00	0.00	0.0136	63.8	0.084	43.8	0.29	0.33	33.82	2.37	208.16
1/5	28	4.97	0.20	11.0	0.06	0.43	0.00	0.00	0.0137	64.3	0.084	43.8	0.30	0.30	34.12	2.14	210.29
1/6	29	4.97	0.15	11.0	0.05	0.40	0.00	0.00	0.0138	64.8	0.085	44.3	0.31	0.25	34.37	1.99	212.28
1/7	30	5.07	0.20	11.1	0.06	0.35	0.00	0.00	0.0139	65.3	0.086	44.8	0.32	0.30	34.67	1.77	214.06
1/8	31	4.92	0.20	11.2	0.05	0.38	0.00	0.00	0.0140	65.7	0.087	45.3	0.33	0.25	34.92	1.87	215.93
1/9	32	4.60	0.15	11.1	0.05	0.37	0.00	0.00	0.0141	66.2	0.087	45.3	0.34	0.23	35.15	1.70	217.63
1/10	33	4.25	0.20	10.8	0.05	0.37	0.00	0.00	0.0142	66.7	0.088	45.8	0.36	0.21	35.36	1.57	219.20
1/11	34	5.66	0.15	11.1	0.05	0.33	0.00	0.00	0.0143	67.1	0.089	46.4	0.37	0.28	35.64	1.87	221.07
1/12	35	5.06	0.15	11.0	0.05	0.33	0.00	0.00	0.0144	67.6	0.089	46.4	0.38	0.25	35.89	1.67	222.74
1/13	36	4.56	0.15	11.0	0.05	0.37	0.00	0.00	0.0145	68.1	0.090	46.9	0.40	0.23	36.12	1.69	224.42
1/14	37	5.11	0.15	10.8	0.06	0.36	0.00	0.00	0.0146	68.5	0.091	47.4	0.41	0.31	36.43	1.84	226.26
1/15	38	3.04	0.20	10.4	0.07	0.37	0.00	0.00	0.0147	69.0	0.091	47.4	0.42	0.21	36.64	1.12	227.39
1/16	39	4.61	0.15	10.7	0.07	0.46	0.00	0.00	0.0148	69.5	0.092	47.9	0.44	0.32	36.96	2.12	229.51
1/17	40	3.59	0.15	10.5	0.07	0.50	0.00	0.00	0.0149	70.0	0.093	48.4	0.46	0.25	37.22	1.80	231.30
1/18	41	6.16	0.15	10.8	0.05	0.28	0.00	0.00	0.0151	70.9	0.094	49.0	0.47	0.31	37.52	1.72	233.03
1/19	42	4.68	0.15	10.7	0.04	0.31	0.00	0.00	0.0151	70.9	0.094	49.0	0.49	0.19	37.71	1.45	234.48
1/20	43	5.25	0.20	10.6	0.04	0.29	0.00	0.00	0.0152	71.4	0.095	49.5	0.49	0.21	37.92	1.52	236.00
1/21	44	4.50	0.20	10.7	0.04	0.29	0.00	0.00	0.0153	71.8	0.095	49.5	0.50	0.18	38.10	1.31	237.31
1/22	45	5.32	0.15	10.8	0.03	0.23	0.00	0.00	0.0154	72.3	0.096	50.0	0.52	0.16	38.26	1.22	238.53
1/23	46	4.94	0.20	10.9	0.04	0.24	0.00	0.00	0.0154	72.3	0.096	50.0	0.52	0.20	38.46	1.19	239.72
1/24	47	4.71	0.20	10.7	0.04	0.26	0.01	0.00	0.0155	72.8	0.097	50.5	0.53	0.19	38.65	1.22	240.94
1/25	48	5.27	0.10	10.6	0.03	0.22	0.00	0.00	0.0156	73.2	0.097	50.5	0.55	0.11	38.75	1.16	242.10
1/26	49	4.81	0.15	10.7	0.03	0.23	0.00	0.00	0.0156	73.2	0.098	51.0	0.57	0.14	38.90	1.11	243.21
1/27	50	5.00	0.20	10.7	0.03	0.25	0.00	0.00	0.0157	73.7	0.098	51.0	0.58	0.15	39.05	1.25	244.46
1/28	51	5.18	0.20	10.8	0.03	0.24	0.00	0.00	0.0157	73.7	0.099	51.6	0.58	0.16	39.20	1.24	245.70
1/29	52	4.84	0.15	10.7	0.03	0.24	0.00	0.00	0.0158	74.2	0.099	51.6	0.60	0.15	39.35	1.16	246.86

3439 P-8

Ore Charge				NaCN added	123.53	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	1.56	lb/ton ore				Au	Ag
72.63	kg	0.073	mt								
160.12	lb	0.0801	ton		12.0	lbs Cement/ton of ore					
									Avg. Head	0.014	0.30
									Head Screen	0.0385	0.20
									Tail Screen	0.0038	0.078
									Tail Assay		

Daily Column Leach Test Data,

Sample I.D. LM-006, 007 (LG)

Test Conditions,

Feed Size, 80% minus 1"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
1/30	53	5.38	0.10	10.6	0.03	0.20	0.00	0.00	0.0159	74.6	0.100	52.1	0.62	0.16	39.51	1.08	247.94
1/31	54	4.86	0.20	10.6	0.03	0.22	0.00	0.00	0.0159	74.6	0.100	52.1	0.63	0.15	39.66	1.07	249.01
2/1	55	4.96	0.20	10.2	0.03	0.22	0.00	0.00	0.0160	75.1	0.100	52.1	0.64	0.15	39.80	1.09	250.10
2/2	56	4.35	0.10	10.6	0.03	0.22	0.00	0.00	0.0160	75.1	0.101	52.6	0.66	0.13	39.94	0.96	251.06
2/3	57	4.87	0.15	10.7	0.03	0.17	0.00	0.00	0.0161	75.6	0.101	52.6	0.67	0.15	40.08	0.83	251.88
2/4	58	5.73	0.20	10.7	0.02	0.13	0.00	0.00	0.0161	75.6	0.101	52.6	0.68	0.11	40.20	0.74	252.63
2/5	59	4.83	0.15	10.9	0.03	0.15	0.00	0.00	0.0162	76.1	0.102	53.1	0.69	0.14	40.34	0.72	253.35
2/6	60	4.80	0.20	10.4	0.03	0.20	0.00	0.00	0.0163	76.5	0.102	53.1	0.70	0.14	40.48	0.96	254.31
2/7	61	4.55	0.15	10.7	0.02	0.18	0.00	0.00	0.0163	76.5	0.102	53.1	0.72	0.09	40.58	0.82	255.13
2/8	62	4.96	0.10	10.7	0.02	0.14	0.00	0.00	0.0163	76.5	0.103	53.6	0.74	0.10	40.68	0.69	255.83
2/9	63	5.70	0.10	10.5	0.02	0.13	0.00	0.00	0.0164	77.0	0.103	53.6	0.76	0.11	40.79	0.74	256.57
2/10	64	5.03	0.05	10.7	0.02	0.08	0.00	0.00	0.0164	77.0	0.103	53.6	0.79	0.10	40.89	0.40	256.97
2/11	65	4.43	0.00	10.6	0.02	0.08	0.00	0.00	0.0165	77.5	0.103	53.6	0.82	0.09	40.98	0.35	257.32
2/12	66	5.42	0.00	10.4	0.02	0.05	0.01	0.00	0.0165	77.5	0.103	53.6	0.86	0.11	41.09	0.27	257.60
2/13	67	4.92	0.00	10.3	0.02	0.05	0.00	0.00	0.0165	77.5	0.104	54.2	0.89	0.05	41.13	0.25	257.84
2/14	68	4.85	0.05	10.3	0.01	0.06	0.00	0.00	0.0165	77.5	0.104	54.2	0.92	0.05	41.18	0.29	258.13
2/15	69	3.56	0.00	10.2	0.01	0.07	0.00	0.00	0.0166	77.9	0.104	54.2	0.96	0.04	41.22	0.25	258.38
2/16	70	4.88	0.05	10.4	0.01	0.04	0.00	0.00	0.0166	77.9	0.104	54.2	0.99	0.05	41.27	0.20	258.58
2/17	71	5.56	0.05	10.5	0.01	0.00	0.00	0.00	0.0166	77.9	0.104	54.2	1.01	0.06	41.32	0.00	258.58
2/18	72	5.33	0.00	10.3	0.01	0.02	0.00	0.00	0.0166	77.9	0.104	54.2	1.05	0.05	41.38	0.11	258.68
2/19	73	5.37	0.05	10.5	0.01	0.01	0.00	0.00	0.0166	77.9	0.104	54.2	1.08	0.05	41.43	0.05	258.74
2/20	74	4.55	0.05	10.1	0.01	0.03	0.00	0.00	0.0167	78.4	0.104	54.2	1.11	0.05	41.48	0.14	258.87
2/21	75	5.59	0.05	10.3	0.01	0.03	0.00	0.00	0.0167	78.4	0.104	54.2	1.13	0.06	41.53	0.17	259.04
2/22	76	2.88	0.05	10.1	0.01	0.00	0.00	0.00	0.0167	78.4	0.104	54.2	1.15	0.03	41.56	0.00	259.04
2/23	77		Rest Cycle														
3/8	90																
3/9	91	4.84	0.00	9.1	0.01	0.35	0.00	0.00	0.0167	78.4	0.105	54.7	1.19	0.05	41.61	1.69	260.73
3/10	92	4.13	0.10	10.1	0.02	0.22	0.00	0.00	0.0167	78.4	0.105	54.7	1.21	0.08	41.69	0.91	261.64
3/11	93	6.26	0.15	10.4	0.01	0.11	0.00	0.00	0.0168	78.9	0.105	54.7	1.22	0.06	41.75	0.69	262.33
3/12	94	5.03	0.15	10.4	0.02	0.13	0.00	0.00	0.0168	78.9	0.106	55.2	1.24	0.10	41.85	0.65	262.99
3/13	95	4.85	0.15	10.5	0.02	0.13	0.00	0.00	0.0168	78.9	0.106	55.2	1.25	0.10	41.95	0.63	263.62
3/14	96	5.24	0.15	10.4	0.02	0.13	0.00	0.00	0.0169	79.3	0.106	55.2	1.27	0.10	42.06	0.68	264.30
3/15	97	3.53	0.15	10.4	0.02	0.17	0.00	0.00	0.0169	79.3	0.106	55.2	1.29	0.07	42.13	0.60	264.90
3/16	98		Rest Cycle														
3/29	111																
3/30	112	5.99	0.00	9.3	0.06	0.71	0.00	0.00	0.0171	80.3	0.108	56.3	1.32	0.36	42.49	4.25	269.15
3/31	113	4.86	0.10	9.9	0.03	0.32	0.00	0.00	0.0171	80.3	0.109	56.8	1.34	0.15	42.63	1.56	270.71
4/1	114	5.32	0.15	10.0	0.01	0.13	0.00	0.00	0.0171	80.3	0.109	56.8	1.36	0.05	42.68	0.69	271.40
4/2	115	4.53	0.10	9.9	0.01	0.17	0.00	0.00	0.0172	80.8	0.109	56.8	1.38	0.05	42.73	0.77	272.17
4/3	116	5.28	0.15	10.1	0.02	0.13	0.00	0.00	0.0172	80.8	0.110	57.3	1.39	0.11	42.84	0.69	272.85
4/4	117	5.04	0.20	10.1	0.01	0.12	0.00	0.00	0.0172	80.8	0.110	57.3	1.40	0.05	42.89	0.60	273.46
4/5	118	4.69	0.15	10.2	0.01	0.13	0.00	0.00	0.0172	80.8	0.110	57.3	1.42	0.05	42.93	0.61	274.07
4/6	119		Rest Cycle														
4/19	132																
4/20	133	4.83	0.00	9.1	0.03	0.50	0.00	0.00	0.0173	81.2	0.111	57.8	1.45	0.14	43.08	2.42	276.48
4/21	134	4.71	0.10	9.8	0.02	0.23	0.00	0.00	0.0173	81.2	0.111	57.8	1.47	0.09	43.17	1.08	277.57
4/22	135	5.08	0.15	10.3	0.01	0.14	0.00	0.00	0.0174	81.7	0.112	58.3	1.49	0.05	43.22	0.71	278.28
4/23	136	5.09	0.20	9.9	0.00	0.10	0.00	0.00	0.0174	81.7	0.112	58.3	1.50	0.00	43.22	0.51	278.79
4/24	137	5.09	0.20	9.8	0.00	0.09	0.00	0.00	0.0174	81.7	0.112	58.3	1.50	0.00	43.22	0.46	279.25
4/25	138	4.87	0.15	9.9	0.03	0.12	0.00	0.00	0.0174	81.7	0.112	58.3	1.52	0.15	43.37	0.58	279.83
4/26	139	5.00	0.15	9.9	0.00	0.10	0.00	0.00	0.0174	81.7	0.113	58.9	1.53	0.00	43.37	0.50	280.33
4/27	140		Rest Cycle														

3439 P-8

Ore Charge				NaCN added	123.53	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	1.56	lb/ton ore				Au	Ag
72.63	kg	0.073	mt								
160.12	lb	0.0801	ton		12.0	lbs Cement/ton of ore					
									Avg. Head	0.014	0.30
									Head Screen	0.0385	0.20
									Tail Screen	0.0038	0.078
									Tail Assay		

Daily Column Leach Test Data,

Sample I.D. LM-006, 007 (LG)

Test Conditions,

Feed Size, 80% minus 1"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
5/10	153																
5/11	154	4.61	0.00	9.3	0.04	0.55	0.02	0.00	0.0175	82.2	0.114	59.4	1.57	0.18	43.55	2.54	282.87
			Rinse Cycle														
5/12	155	4.68	0.10	10.1	0.00	0.22	0.00	0.00	0.0175	82.2	0.114	59.4	1.57	0.00	43.55	1.03	283.89
5/13	156	4.54	0.00	10.0	0.00	0.10	0.00	0.00	0.0175	82.2	0.114	59.4	1.57	0.00	43.55	0.45	284.35
5/14	157	5.45	0.00	10.4	0.00	0.06	0.00	0.01	0.0175	82.2	0.114	59.4	1.57	0.00	43.55	0.33	284.68
5/15	158	4.49	0.00	10.6	0.00	0.05	0.00	0.00	0.0175	82.2	0.114	59.4	1.56	0.00	43.55	0.22	284.90
5/16	159	5.41	0.00	10.7	0.00	0.03	0.00	0.00	0.0175	82.2	0.114	59.4	1.56	0.00	43.55	0.16	285.06
			Drain Down														

Extracted, oz/ton of ore	**0.0175**	**82.2**	**0.114**	**59.4**
Estimated Tail , oz/ton of ore	**0.0038**		**0.078**	
Calculated Head, oz/ton of ore	**0.0213**		**0.192**	

3439 P-9

Ore Charge		NaCN added	140.80 g	NaCN	0.50 lb/ton solution	oz/ton ore Au	oz/ton ore Ag
72.13 kg	0.072 mt	NaCN Consumption	1.20 lb/ton ore				
159.02 lb	0.0795 ton		12.0 lbs Cement/ton of ore		Avg. Head	0.205	1.84
					Head Screen	0.1461	1.88
					Tail Screen	0.0473	0.852
					Tail Assay		

Daily Column Leach Test Data,
Sample I.D. LM-010, 011 (HG)
Test Conditions,

Feed Size, 80% minus 1"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
Date	Days Leached	Vol. l.	NaCN Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
12/9	1												0.00	0.00	0.00	0.00	0.00
12/10	2	2.18	0.00	11.0	4.00	27.00	0.01	0.01	0.0035	1.9	0.024	1.4	0.04	8.72	8.72	58.86	58.86
12/11	3	4.66	0.05	11.7	8.70	55.80	0.00	0.00	0.0199	10.9	0.129	7.5	0.06	40.49	49.21	259.98	318.84
12/12	4	5.26	0.15	11.1	7.04	39.60	0.00	0.00	0.0349	19.0	0.213	12.4	0.08	37.03	86.24	208.30	527.13
12/13	5	5.20	0.20	11.2	4.08	29.40	0.00	0.02	0.0435	23.7	0.275	16.0	0.08	21.22	107.46	152.88	680.01
12/14	6	4.78	0.20	11.2	3.30	18.20	0.00	0.01	0.0498	27.2	0.310	18.0	0.09	15.77	123.23	86.89	766.91
12/15	7	5.02	0.15	11.2	2.41	13.30	0.00	0.02	0.0547	29.8	0.337	19.6	0.11	12.10	135.33	66.72	833.62
12/16	8	4.98	0.20	11.1	1.96	11.65	0.00	0.01	0.0587	32.0	0.361	21.0	0.12	9.76	145.09	57.92	891.54
12/17	9	5.03	0.15	11.2	1.82	11.90	0.00	0.03	0.0624	34.0	0.385	22.3	0.13	9.15	154.25	59.81	951.34
12/18	10	4.46	0.20	11.1	1.70	10.70	0.00	0.02	0.0654	35.7	0.404	23.4	0.14	7.58	161.83	47.57	998.91
12/19	11	5.23	0.25	11.1	1.53	9.60	0.00	0.02	0.0687	37.5	0.424	24.6	0.14	8.00	169.83	50.11	1049.02
12/20	12	5.14	0.25	11.1	1.30	8.05	0.00	0.04	0.0714	38.9	0.441	25.6	0.14	6.68	176.51	41.28	1090.29
12/21	13	4.83	0.20	11.1	1.13	7.59	0.00	0.04	0.0736	40.1	0.456	26.5	0.15	5.46	181.97	36.46	1126.75
12/22	14	4.48	0.15	10.9	0.99	6.18	0.00	0.03	0.0754	41.1	0.467	27.1	0.17	4.44	186.40	27.48	1154.23
12/23	15	4.78	0.20	11.2	1.00	6.02	0.00	0.04	0.0773	42.1	0.478	27.7	0.18	4.78	191.18	28.62	1182.85
12/24	16	5.94	0.25	11.3	0.89	5.49	0.00	0.06	0.0794	43.3	0.491	28.5	0.17	5.29	196.47	32.41	1215.26
12/25	17	4.09	0.20	11.3	0.95	5.60	0.00	0.04	0.0810	44.2	0.501	29.1	0.18	3.89	200.36	22.60	1237.86
12/26	18	5.87	0.20	11.5	0.80	4.52	0.01	0.06	0.0829	45.2	0.511	29.7	0.19	4.70	205.05	26.33	1264.19
12/27	19	4.27	0.20	11.5	0.80	4.76	0.00	0.05	0.0843	46.0	0.519	30.1	0.20	3.37	208.42	20.02	1284.21
12/28	20	5.45	0.20	11.2	0.88	5.54	0.00	0.01	0.0862	47.0	0.531	30.8	0.20	4.80	213.21	29.94	1314.14
12/29	21	5.50	0.20	11.5	0.69	4.46	0.00	0.12	0.0878	47.9	0.541	31.4	0.21	3.80	217.01	24.48	1338.62
12/30	22	4.81	0.20	11.7	0.71	4.72	0.00	0.13	0.0891	48.6	0.550	31.9	0.22	3.42	220.42	22.09	1360.71
12/31	23	4.54	0.25	11.3	0.70	4.80	0.00	0.13	0.0904	49.3	0.559	32.4	0.22	3.18	223.60	21.13	1381.84
1/1	24	5.42	0.25	11.6	0.58	4.08	0.00	0.18	0.0917	50.0	0.567	32.9	0.22	3.14	226.74	21.45	1403.29
1/2	25	4.24	0.20	11.4	0.72	4.84	0.00	0.13	0.0929	50.7	0.575	33.4	0.23	3.05	229.80	19.60	1422.90
1/3	26	6.01	0.20	11.4	0.51	3.26	0.00	0.21	0.0942	51.4	0.583	33.8	0.23	3.07	232.86	18.93	1441.83
1/4	27	4.72	0.25	11.7	0.55	3.74	0.00	0.19	0.0952	51.9	0.590	34.2	0.24	2.60	235.46	16.58	1458.41
1/5	28	5.02	0.20	11.5	0.51	3.42	0.00	0.20	0.0962	52.5	0.596	34.6	0.24	2.56	238.02	16.20	1474.61
1/6	29	5.03	0.20	11.7	0.45	3.10	0.00	0.20	0.0972	53.0	0.602	34.9	0.25	2.26	240.28	14.57	1489.18
1/7	30	5.19	0.20	11.7	0.44	2.85	0.00	0.21	0.0981	53.5	0.608	35.3	0.26	2.28	242.57	13.77	1502.95
1/8	31	5.05	0.20	11.8	0.45	3.00	0.00	0.22	0.0990	54.0	0.613	35.6	0.26	2.27	244.84	14.08	1517.03
1/9	32	4.75	0.25	11.7	0.44	3.08	0.00	0.20	0.0999	54.5	0.619	35.9	0.27	2.09	246.93	13.51	1530.54
1/10	33	4.34	0.20	11.6	0.46	3.22	0.00	0.21	0.1007	54.9	0.624	36.2	0.28	2.00	248.92	12.95	1543.49
1/11	34	5.73	0.20	11.6	0.43	2.73	0.00	0.28	0.1017	55.5	0.630	36.6	0.28	2.46	251.39	14.57	1558.07
1/12	35	4.82	0.20	11.5	0.43	2.96	0.00	0.30	0.1025	55.9	0.635	36.9	0.29	2.07	253.46	12.84	1570.91
1/13	36	4.96	0.20	11.5	0.44	3.12	0.00	0.35	0.1034	56.4	0.641	37.2	0.30	2.18	255.64	13.95	1584.85
1/14	37	4.78	0.20	11.4	0.43	3.10	0.00	0.40	0.1042	56.8	0.646	37.5	0.31	2.06	257.70	13.03	1597.88
1/15	38	5.66	0.20	11.4	0.35	2.75	0.00	0.45	0.1050	57.3	0.652	37.8	0.31	1.98	259.68	13.53	1611.41
1/16	39	4.99	0.20	11.3	0.40	3.08	0.00	0.50	0.1058	57.7	0.657	38.1	0.32	2.00	261.68	13.07	1624.48
1/17	40	4.53	0.20	11.4	0.41	3.34	0.00	0.40	0.1066	58.1	0.662	38.4	0.33	1.86	263.53	12.58	1637.06
1/18	41	5.32	0.25	11.5	0.32	2.63	0.00	0.53	0.1073	58.5	0.667	38.7	0.33	1.70	265.24	11.95	1649.01
1/19	42	4.85	0.20	11.4	0.33	2.60	0.00	0.51	0.1079	58.8	0.671	38.9	0.34	1.60	266.84	9.91	1658.92
1/20	43	5.13	0.10	11.4	0.32	2.61	0.00	0.55	0.1086	59.2	0.675	39.2	0.36	1.64	268.48	10.79	1669.71
1/21	44	4.36	0.20	11.4	0.33	2.67	0.00	0.45	0.1091	59.5	0.679	39.4	0.37	1.44	269.92	8.84	1678.55
1/22	45	5.57	0.25	11.4	0.30	2.67	0.00	0.57	0.1098	59.9	0.684	39.7	0.37	1.67	271.59	12.58	1691.12
1/23	46	4.92	0.25	11.6	0.31	2.60	0.00	0.57	0.1104	60.2	0.688	39.9	0.37	1.53	273.11	9.89	1701.01
1/24	47	5.01	0.20	11.4	0.32	2.66	0.00	0.58	0.1111	60.6	0.692	40.2	0.38	1.60	274.72	10.42	1711.43
1/25	48	5.13	0.20	11.2	0.26	2.33	0.00	0.66	0.1116	60.9	0.696	40.4	0.38	1.33	276.05	8.99	1720.42
1/26	49	3.68	0.15	11.3	0.31	2.71	0.00	0.43	0.1121	61.1	0.698	40.5	0.40	1.14	277.19	6.61	1727.03
1/27	50	5.88	0.15	11.4	0.28	2.48	0.00	0.81	0.1128	61.5	0.703	40.8	0.41	1.65	278.84	12.39	1739.42
1/28	51	5.45	0.20	11.4	0.25	2.47	0.00	0.85	0.1133	61.8	0.707	41.0	0.42	1.36	280.20	9.33	1748.75
1/29	52	4.95	0.25	11.4	0.26	2.75	0.00	0.80	0.1138	62.1	0.711	41.3	0.42	1.29	281.49	9.28	1758.03

3439 P-9

Ore Charge				NaCN added	140.80	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	1.20	lb/ton ore				Au	Ag
72.13	kg	0.072	mt								
159.02	lb	0.0795	ton		12.0	lbs Cement/ton of ore					
									Avg. Head	0.205	1.84
									Head Screen	0.1461	1.88
									Tail Screen	0.0473	0.852
									Tail Assay		

Daily Column Leach Test Data,
Sample I.D. LM-010, 011 (HG)
Test Conditions,

Feed Size, 80% minus 1"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
1/30	53	5.22	0.20	11.3	0.24	2.63	0.00	0.93	0.1143	62.3	0.715	41.5	0.43	1.25	282.74	9.65	1767.68
1/31	54	4.92	0.20	11.2	0.25	2.42	0.00	0.76	0.1148	62.6	0.718	41.7	0.44	1.23	283.97	7.16	1774.84
2/1	55	4.97	0.15	11.0	0.24	2.40	0.00	0.77	0.1153	62.9	0.721	41.8	0.45	1.19	285.16	8.05	1782.89
2/2	56	4.52	0.15	11.4	0.26	2.58	0.00	0.68	0.1158	63.1	0.724	42.0	0.47	1.18	286.34	7.73	1790.63
2/3	57	5.02	0.20	11.4	0.23	2.37	0.00	0.79	0.1163	63.4	0.727	42.2	0.47	1.15	287.49	8.43	1799.05
2/4	58	5.44	0.20	11.4	0.20	2.17	0.00	0.82	0.1167	63.6	0.731	42.4	0.48	1.09	288.58	7.78	1806.83
2/5	59	4.90	0.20	11.5	0.21	2.35	0.00	0.84	0.1171	63.8	0.734	42.6	0.49	1.03	289.61	7.33	1814.16
2/6	60	4.91	0.20	11.1	0.23	2.55	0.00	0.97	0.1176	64.1	0.737	42.8	0.50	1.13	290.74	8.24	1822.40
2/7	61	4.74	0.20	11.4	0.22	2.53	0.00	0.88	0.1180	64.3	0.740	42.9	0.51	1.04	291.78	7.05	1829.45
2/8	62	5.00	0.20	11.4	0.21	2.20	0.00	0.99	0.1184	64.6	0.742	43.1	0.51	1.05	292.83	6.51	1835.96
2/9	63	5.43	0.15	11.3	0.18	2.11	0.00	1.07	0.1188	64.8	0.745	43.2	0.53	0.98	293.81	6.41	1842.37
2/10	64	5.06	0.20	11.4	0.18	2.27	0.00	0.93	0.1192	65.0	0.747	43.4	0.53	0.91	294.72	6.03	1848.39
2/11	65	4.64	0.20	11.4	0.21	2.41	0.00	0.73	0.1196	65.2	0.750	43.5	0.54	0.97	295.69	6.44	1854.83
2/12	66	5.25	0.20	11.2	0.19	2.22	0.01	1.10	0.1200	65.4	0.753	43.7	0.55	1.00	296.69	7.93	1862.77
2/13	67	4.98	0.20	11.1	0.20	2.15	0.00	1.09	0.1204	65.6	0.755	43.8	0.56	0.95	297.64	5.10	1867.86
2/14	68	4.88	0.15	11.1	0.19	2.43	0.00	0.99	0.1207	65.8	0.758	44.0	0.57	0.93	298.56	6.30	1874.16
2/15	69	5.01	0.20	11.3	0.17	2.26	0.00	1.17	0.1211	66.0	0.760	44.1	0.58	0.85	299.42	6.27	1880.44
2/16	70	4.99	0.20	11.1	0.17	2.25	0.00	1.12	0.1214	66.2	0.763	44.3	0.59	0.85	300.26	5.26	1885.70
2/17	71	4.79	0.20	11.0	0.16	2.34	0.00	0.97	0.1217	66.4	0.765	44.4	0.60	0.77	301.03	5.50	1891.19
2/18	72	5.12	0.15	11.1	0.15	2.14	0.00	1.04	0.1220	66.5	0.767	44.5	0.61	0.77	301.80	6.01	1897.20
2/19	73	5.00	0.15	11.2	0.15	2.01	0.00	1.05	0.1223	66.7	0.769	44.6	0.63	0.75	302.55	4.75	1901.95
2/20	74	4.55	0.20	11.0	0.17	2.37	0.00	1.00	0.1227	66.9	0.771	44.7	0.64	0.77	303.32	5.43	1907.38
2/21	75	5.44	0.15	11.1	0.16	2.36	0.00	1.17	0.1230	67.1	0.774	44.9	0.65	0.87	304.19	7.74	1915.12
2/22	76	4.66	0.15	11.0	0.15	2.08	0.00	1.00	0.1233	67.2	0.776	45.0	0.67	0.70	304.89	3.73	1918.84
2/23	77		Rest Cycle														
3/8	90																
3/9	91	4.93	0.00	9.7	0.54	5.33	0.00	0.04	0.1244	67.8	0.787	45.7	0.70	2.66	307.55	26.28	1945.12
3/10	92	5.59	0.20	11.1	0.24	2.77	0.00	0.00	0.1249	68.1	0.793	46.0	0.71	1.34	308.89	15.28	1960.40
3/11	93	4.90	0.20	11.1	0.15	1.19	0.00	0.01	0.1252	68.3	0.795	46.1	0.71	0.74	309.63	5.83	1966.23
3/12	94	4.95	0.20	11.1	0.14	0.90	0.00	0.02	0.1255	68.4	0.797	46.3	0.72	0.69	310.32	4.40	1970.63
3/13	95	4.85	0.15	11.1	0.15	0.86	0.00	0.02	0.1258	68.6	0.799	46.4	0.74	0.73	311.05	4.07	1974.70
3/14	96	5.13	0.15	11.0	0.14	0.86	0.00	0.02	0.1261	68.8	0.800	46.4	0.75	0.72	311.77	4.31	1979.01
3/15	97	3.65	0.20	11.1	0.16	1.05	0.00	0.02	0.1263	68.9	0.802	46.5	0.77	0.58	312.35	3.73	1982.74
3/16	98		Rest Cycle														
3/29	111																
3/30	112	5.79	0.00	9.6	0.39	2.70	0.00	0.03	0.1272	69.4	0.808	46.9	0.80	2.26	314.61	15.63	1998.38
3/31	113	4.85	0.20	10.9	0.22	1.75	0.00	0.02	0.1277	69.6	0.811	47.1	0.81	1.07	315.68	8.33	2006.71
4/1	114	5.21	0.20	10.7	0.11	0.77	0.00	0.02	0.1279	69.7	0.813	47.2	0.82	0.57	316.25	3.91	2010.62
4/2	115	4.60	0.15	10.4	0.14	0.92	0.00	0.03	0.1281	69.8	0.815	47.3	0.83	0.64	316.89	4.13	2014.75
4/3	116	5.15	0.15	10.9	0.12	0.75	0.00	0.03	0.1284	70.0	0.816	47.4	0.85	0.62	317.51	3.71	2018.46
4/4	117	5.02	0.15	10.7	0.12	0.77	0.00	0.03	0.1286	70.1	0.818	47.5	0.86	0.60	318.11	3.71	2022.17
4/5	118	4.70	0.15	10.8	0.12	0.81	0.00	0.03	0.1289	70.3	0.819	47.5	0.88	0.56	318.68	3.65	2025.83
4/6	119		Rest Cycle														
4/19	132																
4/20	133	4.71	0.05	9.9	0.25	2.18	0.00	0.04	0.1293	70.5	0.823	47.8	0.91	1.18	319.86	10.27	2036.09
4/21	134	4.74	0.20	10.9	0.15	1.29	0.00	0.03	0.1296	70.7	0.826	47.9	0.92	0.71	320.57	5.91	2042.00
4/22	135	5.03	0.20	11.2	0.13	0.87	0.00	0.04	0.1299	70.8	0.827	48.0	0.92	0.65	321.22	4.22	2046.23
4/23	136	5.03	0.15	10.7	0.11	0.71	0.00	0.05	0.1301	70.9	0.829	48.1	0.94	0.55	321.77	3.37	2049.60
4/24	137	5.05	0.20	10.4	0.13	0.72	0.00	0.05	0.1304	71.1	0.830	48.2	0.95	0.66	322.43	3.38	2052.98
4/25	138	4.85	0.15	10.4	0.15	0.93	0.00	0.06	0.1307	71.3	0.832	48.3	0.96	0.73	323.16	4.26	2057.23
4/26	139	4.93	0.15	10.5	0.12	0.86	0.00	0.06	0.1309	71.4	0.833	48.3	0.98	0.59	323.75	3.93	2061.17
4/27	140		Rest Cycle														

3439 P-9

Ore Charge				NaCN added	140.80	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	1.20	lb/ton ore				Au	Ag
72.13	kg	0.072	mt								
159.02	lb	0.0795	ton		12.0	lbs Cement/ton of ore					
									Avg. Head	0.205	1.84
									Head Screen	0.1461	1.88
									Tail Screen	0.0473	0.852
									Tail Assay		

Daily Column Leach Test Data,
Sample I.D. LM-010, 011 (HG)
Test Conditions,

Feed Size, 80% minus 1"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
	Days	Vol.	NaCN Conc.		Au	Ag	Au	Ag	Cum.	Cum.	Cum.	Cum.	Consumed		cum.		cum.
Date	Leached	l.	g/l	pH	ppm	ppm	ppm	ppm	oz/ton	%	oz/ton	%	lb/ton	mg	mg	mg	mg
5/10	153																
5/11	154	4.62	0.10	10.4	0.49	3.46	0.00	0.07	0.1318	71.9	0.840	48.8	1.00	2.26	326.01	15.99	2077.15
5/12	155	4.71	0.10	11.4	0.19	1.50	0.00	0.05	0.1322	72.1	0.843	48.9	1.02	0.89	326.91	6.71	2083.86
5/13	156	4.44	0.15	10.9	0.12	0.88	0.00	0.06	0.1324	72.2	0.844	49.0	1.04	0.53	327.44	3.65	2087.51
5/14	157	5.67	0.15	11.1	0.10	0.83	0.00	0.09	0.1326	72.3	0.846	49.1	1.05	0.57	328.01	4.40	2091.91
5/15	158	4.61	0.15	11.3	0.16	0.94	0.00	0.09	0.1329	72.5	0.847	49.2	1.07	0.74	328.75	3.87	2095.79
5/16	159	5.09	0.15	11.2	0.11	0.86	0.00	0.08	0.1332	72.6	0.849	49.3	1.08	0.56	329.31	3.92	2099.70
5/17	160	4.04	0.20	11.2	0.14	0.92	0.00	0.06	0.1334	72.7	0.850	49.3	1.09	0.57	329.87	3.31	2103.01
5/18	161		Rest Cycle											0.00	329.87	0.00	2103.01
5/31	174												1.09	0.00	329.87	0.00	2103.01
6/1	175	5.29	0.05	10.2	0.27	2.93	0.00	0.00	0.1340	73.1	0.857	49.7	1.12	1.43	331.30	15.50	2118.51
6/2	176	3.82	0.15	11.2	0.17	1.70	0.00	0.04	0.1342	73.2	0.859	49.9	1.14	0.65	331.95	6.49	2125.01
6/3	177	5.76	0.15	11.3	0.12	0.87	0.00	0.03	0.1345	73.3	0.861	50.0	1.15	0.69	332.64	4.81	2129.81
6/4	178	4.33	0.15	11.1	0.11	0.80	0.00	0.07	0.1347	73.4	0.863	50.1	1.17	0.48	333.12	3.31	2133.12
6/5	179	4.41	0.20	11.1	0.13	1.13	0.00	0.05	0.1349	73.6	0.864	50.1	1.18	0.57	333.69	4.63	2137.75
6/6	180	5.60	0.20	11.0	0.12	0.78	0.00	0.05	0.1352	73.7	0.866	50.3	1.19	0.67	334.36	4.11	2141.86
6/7	181	4.52	0.15	11.2	0.10	0.82	0.00	0.07	0.1354	73.8	0.868	50.4	1.20	0.45	334.81	3.45	2145.32
6/8	182		Rinse Cycle														
6/15	189	1.96	0.05	9.0	0.52	3.44	0.00	0.12	0.1358	74.0	0.870	50.5	1.20	1.02	335.83	6.74	2152.06
6/16	190	2.36	0.00	10.8	0.12	0.78	0.00	0.14	0.1359	74.1	0.871	50.6	1.20	0.28	336.12	1.23	2153.29
6/17	191	6.07	0.00	11.3	0.07	0.40	0.00	0.17	0.1361	74.2	0.871	50.6	1.20	0.42	336.54	1.71	2155.00
			Drain Down														

Extracted, oz/ton of ore	**0.1361**	**74.2**	**0.871**	**50.6**
Estimated Tail , oz/ton of ore	**0.0473**		**0.852**	
Calculated Head, oz/ton of ore	**0.1834**		**1.723**	

3439 P-10

Ore Charge				NaCN added	124.16	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	0.79	lb/ton ore				Au	Ag
68.69	kg	0.069	mt								
151.43	lb	0.0757	ton		12.0	lbs Cement/ton of ore					
									Avg. Head	0.084	1.50
									Head Screen	0.0879	1.42
									Tail Screen	0.0337	0.959
									Tail Assay		

Daily Column Leach Test Data,
Sample I.D. PC10-07, 08 (Core)
Test Conditions,

Feed Size, 80% minus 1"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
12/9	1												0.00	0.00	0.00	0.00	0.00
12/10	2	4.13	0.10	11.7	0.66	9.25	0.00	0.00	0.0012	1.8	0.016	1.0	0.03	2.73	2.73	38.20	38.20
12/11	3	4.87	0.20	12.6	0.68	9.45	0.00	0.00	0.0026	3.9	0.036	2.2	0.03	3.31	6.04	46.02	84.22
12/12	4	5.00	0.20	12.0	0.57	6.20	0.00	0.00	0.0038	5.8	0.049	3.0	0.04	2.85	8.89	31.00	115.22
12/13	5	5.04	0.20	12.1	0.48	6.24	0.00	0.00	0.0048	7.3	0.062	3.9	0.05	2.42	11.31	31.45	146.67
12/14	6	4.95	0.20	12.0	0.42	5.22	0.00	0.00	0.0057	8.6	0.073	4.5	0.06	2.08	13.39	25.84	172.51
12/15	7	5.02	0.25	12.2	0.38	5.31	0.00	0.00	0.0065	9.8	0.085	5.3	0.06	1.91	15.29	26.66	199.17
12/16	8	5.01	0.15	12.0	0.33	5.04	0.00	0.00	0.0072	10.9	0.095	5.9	0.07	1.65	16.95	25.25	224.42
12/17	9	4.97	0.25	12.1	0.31	4.64	0.00	0.01	0.0079	12.0	0.105	6.5	0.08	1.54	18.49	23.06	247.48
12/18	10	4.91	0.20	12.0	0.32	5.00	0.00	0.00	0.0085	12.9	0.115	7.1	0.08	1.57	20.06	24.50	271.98
12/19	11	5.00	0.20	12.1	0.29	4.58	0.00	0.02	0.0091	13.8	0.125	7.8	0.09	1.45	21.51	22.90	294.88
12/20	12	4.99	0.20	12.1	0.26	4.36	0.00	0.02	0.0097	14.7	0.134	8.3	0.10	1.30	22.81	21.65	316.53
12/21	13	4.97	0.25	12.1	0.24	4.22	0.00	0.01	0.0102	15.5	0.143	8.9	0.10	1.19	24.00	20.87	337.40
12/22	14	4.86	0.20	12.0	0.26	4.62	0.00	0.01	0.0107	16.2	0.153	9.5	0.11	1.26	25.26	22.40	359.81
12/23	15	4.88	0.25	12.1	0.25	4.20	0.00	0.02	0.0112	17.0	0.161	10.0	0.11	1.22	26.48	20.45	380.25
12/24	16	5.10	0.20	12.2	0.29	4.94	0.00	0.00	0.0119	18.0	0.172	10.7	0.12	1.48	27.96	25.09	405.34
12/25	17	4.74	0.20	12.2	0.30	4.98	0.00	0.01	0.0125	18.9	0.182	11.3	0.13	1.42	29.38	23.61	428.95
12/26	18	5.21	0.20	12.4	0.27	4.70	0.01	0.02	0.0131	19.8	0.193	12.0	0.14	1.41	30.79	24.44	453.39
12/27	19	4.96	0.20	12.5	0.27	3.00	0.00	0.01	0.0136	20.6	0.199	12.4	0.15	1.29	32.08	14.78	468.16
12/28	20	4.97	0.25	12.1	0.25	4.96	0.00	0.11	0.0141	21.4	0.209	13.0	0.15	1.24	33.32	24.60	492.76
12/29	21	4.82	0.20	12.4	0.24	4.94	0.00	0.02	0.0146	22.1	0.219	13.6	0.16	1.16	34.48	23.25	516.01
12/30	22	4.96	0.20	12.6	0.22	4.68	0.00	0.02	0.0151	22.9	0.229	14.2	0.16	1.09	35.57	23.11	539.12
12/31	23	5.00	0.25	12.1	0.22	4.62	0.00	0.04	0.0156	23.6	0.239	14.8	0.16	1.10	36.67	23.00	562.12
1/1	24	4.52	0.20	12.4	0.19	4.22	0.00	0.16	0.0159	24.1	0.247	15.3	0.18	0.86	37.53	18.87	580.99
1/2	25	4.83	0.25	12.4	0.25	5.84	0.00	0.03	0.0164	24.8	0.258	16.0	0.18	1.21	38.73	27.39	608.38
1/3	26	5.06	0.25	12.5	0.19	4.68	0.00	0.04	0.0169	25.6	0.268	16.6	0.18	0.96	39.70	23.53	631.91
1/4	27	4.59	0.25	12.4	0.20	4.52	0.00	0.06	0.0172	26.1	0.277	17.2	0.18	0.92	40.61	20.54	652.45
1/5	28	5.25	0.20	12.3	0.16	3.50	0.00	0.07	0.0176	26.7	0.285	17.7	0.19	0.84	41.45	18.07	670.52
1/6	29	4.92	0.25	12.2	0.15	3.68	0.00	0.06	0.0179	27.1	0.292	18.1	0.19	0.74	42.19	17.75	688.27
1/7	30	4.99	0.25	12.3	0.15	3.38	0.00	0.07	0.0182	27.6	0.299	18.6	0.19	0.75	42.94	16.56	704.83
1/8	31	4.98	0.20	12.4	0.15	3.22	0.00	0.07	0.0186	28.2	0.306	19.0	0.20	0.75	43.69	15.68	720.51
1/9	32	4.88	0.20	12.3	0.16	3.44	0.00	0.09	0.0189	28.6	0.313	19.4	0.21	0.78	44.47	16.43	736.94
1/10	33	4.80	0.20	12.3	0.16	3.58	0.00	0.12	0.0192	29.1	0.320	19.9	0.22	0.77	45.24	16.73	753.67
1/11	34	5.06	0.25	12.1	0.16	3.50	0.00	0.15	0.0196	29.7	0.327	20.3	0.22	0.81	46.05	17.10	770.76
1/12	35	4.80	0.25	12.1	0.16	3.78	0.00	0.21	0.0199	30.2	0.335	20.8	0.22	0.77	46.81	17.38	788.14
1/13	36	5.10	0.25	12.1	0.15	3.90	0.00	0.25	0.0202	30.6	0.343	21.3	0.22	0.77	47.58	18.82	806.96
1/14	37	4.86	0.20	12.0	0.15	3.70	0.00	0.24	0.0205	31.1	0.350	21.7	0.23	0.73	48.31	16.71	823.67
1/15	38	5.09	0.25	12.0	0.13	3.16	0.00	0.27	0.0208	31.5	0.356	22.1	0.23	0.66	48.97	14.86	838.53
1/16	39	4.91	0.20	11.9	0.14	3.60	0.00	0.40	0.0211	32.0	0.363	22.5	0.24	0.69	49.66	16.30	854.83
1/17	40	4.81	0.25	12.0	0.14	3.48	0.00	0.28	0.0214	32.4	0.369	22.9	0.24	0.67	50.33	14.70	869.53
1/18	41	5.18	0.25	12.0	0.11	2.87	0.00	0.49	0.0216	32.7	0.375	23.3	0.24	0.57	50.90	13.44	882.97
1/19	42	4.93	0.20	12.0	0.11	2.84	0.00	0.50	0.0218	33.0	0.380	23.6	0.25	0.54	51.44	11.50	894.47
1/20	43	4.97	0.25	11.9	0.10	2.94	0.00	0.41	0.0221	33.5	0.385	23.9	0.25	0.50	51.94	12.06	906.53
1/21	44	4.88	0.20	12.0	0.11	3.08	0.00	0.47	0.0223	33.8	0.390	24.2	0.26	0.54	52.48	12.94	919.47
1/22	45	4.93	0.25	12.0	0.10	2.90	0.00	0.59	0.0225	34.1	0.395	24.5	0.26	0.49	52.97	11.90	931.37
1/23	46	4.99	0.20	12.1	0.10	2.86	0.00	0.61	0.0227	34.4	0.400	24.8	0.27	0.50	53.47	11.26	942.63
1/24	47	4.98	0.20	12.0	0.11	3.11	0.00	0.60	0.0229	34.7	0.406	25.2	0.28	0.55	54.02	12.38	955.01
1/25	48	5.00	0.25	11.7	0.08	2.61	0.00	0.76	0.0231	35.0	0.410	25.5	0.28	0.40	54.42	9.99	965.00
1/26	49	4.92	0.25	11.8	0.09	2.84	0.00	0.72	0.0233	35.3	0.414	25.7	0.28	0.44	54.86	10.10	975.10
1/27	50	5.02	0.25	11.7	0.10	2.99	0.00	0.86	0.0235	35.6	0.419	26.0	0.28	0.50	55.36	11.34	986.43
1/28	51	4.90	0.20	11.8	0.08	3.32	0.00	0.89	0.0237	35.9	0.424	26.3	0.29	0.39	55.75	11.88	998.31
1/29	52	4.98	0.20	11.7	0.08	3.26	0.00	0.88	0.0238	36.1	0.429	26.6	0.30	0.40	56.15	11.70	1010.01

3439 P-10

Ore Charge				NaCN added	124.16	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	0.79	lb/ton ore				Au	Ag
68.69	kg	0.069	mt								
151.43	lb	0.0757	ton		12.0	lbs Cement/ton of ore					
									Avg. Head	0.084	1.50
									Head Screen	0.0879	1.42
									Tail Screen	0.0337	0.959
									Tail Assay		

Daily Column Leach Test Data,

Sample I.D. PC10-07, 08 (Core)

Test Conditions,

Feed Size, 80% minus 1"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
1/30	53	5.00	0.20	11.7	0.08	2.98	0.00	0.92	0.0240	36.4	0.433	26.9	0.30	0.40	56.55	10.41	1020.42
1/31	54	4.94	0.20	11.7	0.08	2.76	0.00	0.83	0.0242	36.7	0.437	27.1	0.31	0.40	56.95	8.94	1029.37
2/1	55	4.98	0.15	11.2	0.08	2.65	0.00	0.86	0.0244	37.0	0.441	27.4	0.33	0.40	57.35	8.96	1038.33
2/2	56	4.93	0.25	11.8	0.09	3.04	0.00	0.86	0.0245	37.1	0.445	27.6	0.33	0.44	57.79	10.60	1048.93
2/3	57	4.92	0.20	11.7	0.08	2.79	0.00	0.91	0.0247	37.4	0.449	27.9	0.34	0.39	58.18	9.34	1058.27
2/4	58	5.05	0.25	11.7	0.07	2.70	0.00	0.92	0.0249	37.7	0.453	28.1	0.34	0.35	58.54	8.99	1067.27
2/5	59	4.95	0.20	11.9	0.08	2.92	0.00	0.94	0.0250	37.9	0.457	28.4	0.35	0.40	58.93	9.76	1077.03
2/6	60	4.93	0.20	11.6	0.09	3.13	0.00	1.06	0.0252	38.2	0.462	28.7	0.36	0.44	59.38	10.64	1087.66
2/7	61	4.88	0.20	11.8	0.08	2.97	0.00	1.03	0.0254	38.5	0.466	28.9	0.37	0.39	59.77	9.09	1096.75
2/8	62	5.08	0.20	11.8	0.08	2.69	0.00	1.11	0.0256	38.8	0.469	29.1	0.37	0.41	60.17	8.41	1105.16
2/9	63	5.04	0.20	11.6	0.07	2.76	0.00	1.14	0.0257	38.9	0.473	29.4	0.38	0.35	60.53	8.25	1113.41
2/10	64	4.99	0.20	11.8	0.07	2.71	0.00	0.99	0.0258	39.1	0.476	29.6	0.39	0.35	60.87	7.71	1121.12
2/11	65	4.90	0.20	11.8	0.07	2.64	0.00	1.00	0.0260	39.4	0.479	29.8	0.40	0.34	61.22	7.89	1129.01
2/12	66	5.03	0.15	11.5	0.07	2.54	0.01	1.10	0.0261	39.5	0.483	30.0	0.41	0.35	61.57	7.68	1136.69
2/13	67	4.97	0.20	11.5	0.07	2.79	0.00	1.09	0.0263	39.8	0.486	30.2	0.42	0.30	61.87	8.26	1144.94
2/14	68	4.97	0.15	11.5	0.07	2.90	0.00	1.11	0.0264	40.0	0.490	30.4	0.44	0.35	62.21	8.85	1153.80
2/15	69	5.00	0.20	11.4	0.06	2.68	0.00	1.16	0.0265	40.2	0.493	30.6	0.45	0.30	62.51	7.74	1161.53
2/16	70	4.98	0.20	11.4	0.07	2.75	0.00	1.15	0.0267	40.5	0.497	30.9	0.45	0.35	62.86	7.78	1169.31
2/17	71	4.95	0.10	11.3	0.06	2.61	0.00	0.98	0.0268	40.6	0.500	31.1	0.48	0.30	63.16	7.05	1176.37
2/18	72	5.01	0.20	11.4	0.05	2.38	0.00	0.99	0.0269	40.8	0.502	31.2	0.48	0.25	63.41	6.93	1183.29
2/19	73	5.02	0.15	11.4	0.05	2.41	0.00	1.00	0.0270	40.9	0.505	31.4	0.50	0.25	63.66	7.05	1190.34
2/20	74	4.94	0.20	11.3	0.06	2.84	0.00	1.08	0.0272	41.2	0.509	31.6	0.51	0.30	63.96	8.93	1199.27
2/21	75	5.03	0.20	11.2	0.06	2.66	0.00	1.12	0.0273	41.4	0.513	31.9	0.52	0.30	64.26	7.87	1207.14
2/22	76	4.96	0.15	11.3	0.05	2.52	0.00	1.01	0.0274	41.5	0.515	32.0	0.53	0.25	64.51	6.79	1213.93
2/23	77		Rest Cycle														
3/8	90																
3/9	91	5.22	0.05	11.0	0.26	7.61	0.00	0.03	0.0280	42.4	0.532	33.0	0.56	1.36	65.87	39.72	1253.66
3/10	92	5.00	0.20	11.5	0.12	3.54	0.00	0.02	0.0282	42.7	0.540	33.5	0.57	0.60	66.47	17.55	1271.20
3/11	93	5.00	0.20	11.5	0.08	2.29	0.00	0.03	0.0284	43.0	0.545	33.9	0.58	0.40	66.87	11.35	1282.55
3/12	94	4.99	0.20	11.4	0.08	1.99	0.00	0.03	0.0286	43.3	0.549	34.1	0.59	0.40	67.26	9.78	1292.33
3/13	95	4.97	0.20	11.4	0.07	1.75	0.00	0.04	0.0287	43.5	0.552	34.3	0.59	0.35	67.61	8.54	1300.87
3/14	96	5.01	0.20	11.2	0.06	1.64	0.00	0.04	0.0288	43.6	0.556	34.5	0.60	0.30	67.91	8.01	1308.88
3/15	97	4.81	0.20	11.4	0.07	2.01	0.00	0.04	0.0290	43.9	0.560	34.8	0.61	0.34	68.25	9.46	1318.35
3/16	98		Rest Cycle														
3/29	111																
3/30	112	4.88	0.10	11.3	0.26	6.60	0.00	0.08	0.0295	44.7	0.573	35.6	0.63	1.27	69.52	32.21	1350.56
3/31	113	5.15	0.15	11.3	0.11	3.00	0.00	0.14	0.0298	45.2	0.580	36.0	0.65	0.57	70.08	15.04	1365.60
4/1	114	5.04	0.20	11.1	0.06	1.65	0.00	0.07	0.0299	45.3	0.583	36.2	0.66	0.30	70.39	7.60	1373.20
4/2	115	4.94	0.15	11.1	0.07	2.08	0.00	0.08	0.0300	45.5	0.587	36.5	0.67	0.35	70.73	9.92	1383.12
4/3	116	5.00	0.20	11.2	0.06	1.54	0.00	0.09	0.0302	45.8	0.590	36.6	0.68	0.30	71.03	7.29	1390.41
4/4	117	4.98	0.20	11.1	0.05	1.45	0.00	0.07	0.0303	45.9	0.593	36.8	0.69	0.25	71.28	6.76	1397.17
4/5	118	4.96	0.15	11.2	0.05	1.47	0.00	0.07	0.0304	46.1	0.596	37.0	0.71	0.25	71.53	6.93	1404.11
4/6	119		Rest Cycle														
4/19	132																
4/20	133	4.66	0.10	11.0	0.21	5.67	0.00	0.11	0.0308	46.7	0.607	37.7	0.73	0.98	72.51	26.42	1430.53
4/21	134	4.95	0.15	11.4	0.09	2.57	0.00	0.11	0.0310	47.0	0.613	38.1	0.74	0.45	72.95	12.16	1442.69
4/22	135	4.99	0.20	11.4	0.07	1.89	0.00	0.13	0.0311	47.1	0.616	38.3	0.75	0.35	73.30	8.87	1451.56
4/23	136	5.02	0.20	11.1	0.05	1.46	0.00	0.13	0.0312	47.3	0.619	38.4	0.76	0.25	73.55	6.67	1458.23
4/24	137	5.02	0.20	10.9	0.06	1.23	0.00	0.12	0.0314	47.6	0.622	38.6	0.77	0.30	73.86	5.51	1463.74
4/25	138	4.98	0.20	10.9	0.06	1.56	0.00	0.16	0.0315	47.7	0.625	38.8	0.78	0.30	74.15	7.16	1470.89
4/26	139	4.98	0.20	10.9	0.03	1.43	0.00	0.14	0.0316	47.9	0.627	38.9	0.79	0.15	74.30	6.31	1477.20
4/27	140		Rest Cycle														

3439 P-10

Ore Charge				NaCN added	124.16	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	0.79	lb/ton ore				Au	Ag
68.69	kg	0.069	mt								
151.43	lb	0.0757	ton		12.0	lbs Cement/ton of ore					
									Avg. Head	0.084	1.50
									Head Screen	0.0879	1.42
									Tail Screen	0.0337	0.959
									Tail Assay		

Daily Column Leach Test Data,

Sample I.D. PC10-07, 08 (Core)

Test Conditions,

Feed Size, 80% minus 1"

			Pregnant Solution Analyses				Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
5/10	153																
5/11	154	4.74	0.05	11.1	0.21	5.68	0.00	0.17	0.0320	48.5	0.639	39.7	0.82	1.00	75.30	26.92	1504.12
			Rinse Cycle														
5/12	155	5.05	0.05	11.3	0.06	1.83	0.00	0.35	0.0321	48.6	0.643	39.9	0.82	0.30	75.60	9.24	1513.36
5/13	156	4.98	0.05	10.5	0.03	1.35	0.00	0.17	0.0322	48.8	0.645	40.1	0.81	0.15	75.75	4.94	1518.30
5/14	157	5.06	0.00	10.6	0.00	1.10	0.00	0.57	0.0322	48.8	0.647	40.2	0.81	0.00	75.75	5.57	1523.87
5/15	158	5.00	0.00	10.6	0.05	1.09	0.00	0.37	0.0323	48.9	0.649	40.3	0.80	0.25	76.00	5.45	1529.32
5/16	159	5.07	0.00	10.3	0.03	0.89	0.00	0.21	0.0323	48.9	0.651	40.4	0.79	0.15	76.15	4.51	1533.83
			Drain Down														
							Extracted, oz/ton of ore		**0.0323**	**48.9**	**0.651**	**40.4**					
							Estimated Tail , oz/ton of ore		**0.0337**		**0.959**						
							Calculated Head, oz/ton of ore		**0.0660**		**1.610**						

3439 P-11

NaCN added	123.48	g	NaCN	0.50 lb/ton solution
NaCN Consumption	0.79	lb/ton ore		
	12.0	lbs Cement/ton of ore		

Ore Charge			
71.74	kg	0.072	mt
158.16	lb	0.0791	ton

	oz/ton ore Au	oz/ton ore Ag
Avg. Head	0.027	0.22
Head Screen	0.0365	0.21
Tail Screen	0.0120	0.183
Tail Assay		

Daily Column Leach Test Data,

Sample I.D. DA-001 (LG)

Test Conditions,

Feed Size, 80% minus 1/2"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
Date	Days Leached	Vol. l.	NaCN Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
12/9	1												0.00	0.00	0.00	0.00	0.00
12/10	2	2.40	0.00	11.5	1.57	8.20	0.00	0.00	0.0015	4.3	0.008	2.7	0.04	3.77	3.77	19.68	19.68
12/11	3	4.63	0.15	12.3	2.31	8.75	0.00	0.00	0.0059	17.0	0.024	8.2	0.05	10.70	14.46	40.51	60.19
12/12	4	5.22	0.25	11.7	1.53	4.80	0.00	0.00	0.0091	26.2	0.035	12.0	0.05	7.99	22.45	25.06	85.25
12/13	5	5.16	0.20	11.7	0.89	3.02	0.00	0.00	0.0110	31.7	0.041	14.1	0.06	4.59	27.04	15.58	100.83
12/14	6	4.77	0.20	11.7	0.66	2.10	0.00	0.00	0.0123	35.4	0.045	15.5	0.07	3.15	30.19	10.02	110.85
12/15	7	5.03	0.20	11.8	0.43	1.67	0.00	0.00	0.0132	38.0	0.048	16.5	0.07	2.16	32.35	8.40	119.25
12/16	8	4.98	0.20	11.6	0.33	1.35	0.00	0.00	0.0138	39.8	0.051	17.5	0.08	1.64	34.00	6.72	125.97
12/17	9	5.02	0.25	11.6	0.27	1.21	0.00	0.00	0.0144	41.5	0.054	18.6	0.08	1.36	35.35	6.07	132.05
12/18	10	4.55	0.25	11.5	0.24	1.17	0.00	0.00	0.0148	42.7	0.056	19.2	0.09	1.09	36.44	5.32	137.37
12/19	11	5.17	0.20	11.6	0.20	0.97	0.00	0.00	0.0152	43.8	0.058	19.9	0.09	1.03	37.48	5.01	142.38
12/20	12	5.11	0.20	11.6	0.16	0.80	0.00	0.00	0.0156	45.0	0.060	20.6	0.10	0.82	38.30	4.09	146.47
12/21	13	4.86	0.25	11.6	0.14	0.80	0.00	0.00	0.0158	45.5	0.061	21.0	0.10	0.68	38.98	3.89	150.36
12/22	14	4.52	0.25	11.4	0.13	0.73	0.00	0.00	0.0161	46.4	0.062	21.3	0.11	0.59	39.56	3.30	153.66
12/23	15	4.79	0.20	11.7	0.13	0.66	0.00	0.00	0.0163	47.0	0.064	22.0	0.12	0.62	40.19	3.16	156.82
12/24	16	5.82	0.25	11.8	0.10	0.57	0.00	0.00	0.0166	47.8	0.065	22.3	0.11	0.58	40.77	3.32	160.14
12/25	17	4.14	0.25	11.7	0.11	0.58	0.00	0.00	0.0168	48.4	0.066	22.7	0.12	0.46	41.22	2.40	162.54
12/26	18	5.81	0.20	11.8	0.10	0.50	0.00	0.00	0.0170	49.0	0.067	23.0	0.12	0.58	41.80	2.91	165.45
12/27	19	4.32	0.20	11.9	0.09	0.52	0.00	0.00	0.0172	49.6	0.068	23.4	0.13	0.39	42.19	2.25	167.69
12/28	20	5.38	0.25	11.6	0.10	0.62	0.00	0.02	0.0174	50.1	0.070	24.1	0.13	0.54	42.73	3.34	171.03
12/29	21	5.51	0.20	11.9	0.08	0.50	0.00	0.00	0.0176	50.7	0.071	24.4	0.14	0.44	43.17	2.65	173.68
12/30	22	4.75	0.20	12.1	0.08	0.52	0.00	0.00	0.0177	51.0	0.072	24.7	0.15	0.38	43.55	2.47	176.15
12/31	23	4.59	0.25	11.7	0.08	0.53	0.00	0.00	0.0179	51.6	0.073	25.1	0.15	0.37	43.92	2.43	178.58
1/1	24	4.83	0.20	12.0	0.06	0.48	0.00	0.01	0.0180	51.9	0.074	25.4	0.16	0.29	44.21	2.32	180.90
1/2	25	4.69	0.20	11.9	0.08	0.62	0.00	0.01	0.0181	52.2	0.075	25.8	0.17	0.38	44.58	2.86	183.76
1/3	26	5.91	0.25	11.6	0.06	0.50	0.00	0.00	0.0183	52.7	0.076	26.1	0.16	0.35	44.94	2.90	186.66
1/4	27	4.56	0.25	12.1	0.06	0.46	0.00	0.00	0.0184	53.0	0.077	26.5	0.17	0.27	45.21	2.10	188.76
1/5	28	4.93	0.25	12.0	0.06	0.41	0.00	0.00	0.0185	53.3	0.078	26.8	0.17	0.30	45.51	2.02	190.78
1/6	29	4.95	0.25	11.9	0.05	0.37	0.00	0.00	0.0186	53.6	0.078	26.8	0.17	0.25	45.76	1.83	192.61
1/7	30	5.11	0.20	12.0	0.04	0.33	0.00	0.01	0.0187	53.9	0.079	27.1	0.18	0.20	45.96	1.69	194.30
1/8	31	4.99	0.20	12.1	0.05	0.33	0.00	0.00	0.0188	54.2	0.080	27.5	0.18	0.25	46.21	1.60	195.89
1/9	32	4.72	0.25	12.0	0.05	0.34	0.00	0.00	0.0189	54.5	0.080	27.5	0.19	0.24	46.45	1.60	197.50
1/10	33	4.30	0.20	12.0	0.05	0.35	0.00	0.00	0.0190	54.8	0.081	27.8	0.20	0.22	46.66	1.51	199.00
1/11	34	5.70	0.25	11.9	0.05	0.32	0.00	0.01	0.0191	55.0	0.082	28.2	0.19	0.29	46.95	1.82	200.83
1/12	35	4.85	0.20	11.7	0.04	0.32	0.00	0.00	0.0192	55.3	0.082	28.2	0.20	0.19	47.14	1.50	202.33
1/13	36	4.87	0.15	11.8	0.05	0.34	0.00	0.00	0.0193	55.6	0.083	28.5	0.22	0.24	47.38	1.66	203.98
1/14	37	4.74	0.20	11.7	0.04	0.36	0.00	0.01	0.0193	55.6	0.084	28.9	0.23	0.19	47.57	1.71	205.69
1/15	38	5.63	0.25	11.7	0.04	0.30	0.00	0.00	0.0194	55.9	0.084	28.9	0.22	0.23	47.80	1.64	207.33
1/16	39	4.95	0.25	11.7	0.04	0.35	0.00	0.01	0.0195	56.2	0.085	29.2	0.22	0.20	48.00	1.73	209.06
1/17	40	4.49	0.20	11.8	0.05	0.37	0.00	0.01	0.0196	56.5	0.086	29.6	0.24	0.22	48.22	1.61	210.67
1/18	41	5.24	0.25	11.7	0.04	0.28	0.00	0.01	0.0197	56.8	0.086	29.6	0.23	0.21	48.43	1.42	212.09
1/19	42	1.90	0.25	11.6	0.04	0.31	0.00	0.02	0.0197	56.8	0.086	29.6	0.24	0.08	48.51	0.57	212.65
1/20	43	5.18	0.25	11.6	0.05	0.39	0.00	0.01	0.0198	57.1	0.087	29.9	0.24	0.26	48.77	1.92	214.57
1/21	44	4.40	0.25	11.8	0.04	0.30	0.00	0.00	0.0199	57.3	0.088	30.2	0.24	0.18	48.94	1.27	215.84
1/22	45	5.47	0.20	11.7	0.03	0.25	0.00	0.01	0.0200	57.6	0.088	30.2	0.25	0.16	49.11	1.37	217.21
1/23	46	4.90	0.20	11.9	0.03	0.24	0.00	0.01	0.0200	57.6	0.089	30.6	0.26	0.15	49.25	1.13	218.33
1/24	47	5.00	0.25	11.8	0.04	0.25	0.00	0.00	0.0201	57.9	0.089	30.6	0.26	0.20	49.45	1.20	219.53
1/25	48	5.03	0.25	11.5	0.03	0.23	0.00	0.01	0.0202	58.2	0.090	30.9	0.26	0.15	49.60	1.16	220.69
1/26	49	4.88	0.20	11.6	0.03	0.23	0.00	0.01	0.0202	58.2	0.090	30.9	0.27	0.15	49.75	1.07	221.76
1/27	50	4.66	0.20	11.6	0.03	0.23	0.00	0.00	0.0203	58.5	0.091	31.3	0.28	0.14	49.89	1.02	222.78
1/28	51	5.33	0.20	11.7	0.03	0.23	0.00	0.00	0.0203	58.5	0.091	31.3	0.28	0.16	50.05	1.23	224.01
1/29	52	4.99	0.25	11.6	0.03	0.23	0.00	0.00	0.0204	58.8	0.092	31.6	0.28	0.15	50.20	1.15	225.15

3439 P-11

Ore Charge		NaCN added	123.48	g	NaCN	0.50 lb/ton solution		oz/ton ore Au	oz/ton ore Ag
71.74 kg	0.072 mt	NaCN Consumption	0.79	lb/ton ore					
158.16 lb	0.0791 ton		12.0	lbs Cement/ton of ore			Avg. Head	0.027	0.22
							Head Screen	0.0365	0.21
							Tail Screen	0.0120	0.183
							Tail Assay		

Daily Column Leach Test Data,
Sample I.D. DA-001 (LG)
Test Conditions,

Feed Size, 80% minus 1/2"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
	Days	Vol.	Conc.		Au	Ag	Au	Ag	Cum.	Cum.	Cum.	Cum.	Consumed		cum.		cum.
Date	Leached	l.	g/l	pH	ppm	ppm	ppm	ppm	oz/ton	%	oz/ton	%	lb/ton	mg	mg	mg	mg
1/30	53	5.12	0.25	11.6	0.03	0.22	0.01	0.00	0.0205	59.1	0.092	31.6	0.28	0.15	50.35	1.13	226.28
1/31	54	4.93	0.20	11.6	0.03	0.21	0.00	0.00	0.0205	59.1	0.092	31.6	0.29	0.10	50.45	1.04	227.32
2/1	55	3.62	0.15	11.3	0.04	0.24	0.00	0.00	0.0206	59.4	0.093	32.0	0.31	0.14	50.59	0.87	228.19
2/2	56	5.77	0.15	11.7	0.03	0.17	0.00	0.00	0.0206	59.4	0.093	32.0	0.32	0.17	50.77	0.98	229.17
2/3	57	4.96	0.25	11.6	0.03	0.16	0.00	0.00	0.0207	59.7	0.093	32.0	0.32	0.15	50.92	0.79	229.96
2/4	58	5.41	0.25	11.6	0.02	0.13	0.00	0.00	0.0207	59.7	0.094	32.3	0.32	0.11	51.02	0.70	230.66
2/5	59	4.83	0.20	11.7	0.03	0.14	0.00	0.00	0.0208	59.9	0.094	32.3	0.33	0.14	51.17	0.68	231.34
2/6	60	4.87	0.15	11.5	0.03	0.20	0.00	0.01	0.0209	60.2	0.094	32.3	0.35	0.15	51.32	0.97	232.31
2/7	61	4.72	0.25	11.7	0.03	0.19	0.00	0.00	0.0209	60.2	0.095	32.6	0.35	0.14	51.46	0.85	233.16
2/8	62	4.95	0.20	11.7	0.02	0.16	0.00	0.00	0.0210	60.5	0.095	32.6	0.36	0.10	51.56	0.79	233.95
2/9	63	5.40	0.20	11.5	0.02	0.16	0.00	0.00	0.0210	60.5	0.095	32.6	0.36	0.11	51.66	0.86	234.82
2/10	64	5.03	0.25	11.6	0.02	0.10	0.00	0.00	0.0210	60.5	0.096	33.0	0.36	0.10	51.76	0.50	235.32
2/11	65	4.60	0.20	11.7	0.02	0.11	0.00	0.00	0.0211	60.8	0.096	33.0	0.37	0.09	51.86	0.51	235.82
2/12	66	5.21	0.20	11.4	0.03	0.09	0.00	0.00	0.0211	60.8	0.096	33.0	0.38	0.16	52.01	0.47	236.29
2/13	67	4.93	0.20	11.4	0.03	0.09	0.00	0.00	0.0212	61.1	0.096	33.0	0.39	0.15	52.16	0.44	236.74
2/14	68	4.85	0.20	11.4	0.02	0.12	0.00	0.00	0.0212	61.1	0.096	33.0	0.40	0.10	52.26	0.58	237.32
2/15	69	5.07	0.20	11.5	0.02	0.10	0.00	0.00	0.0213	61.4	0.097	33.3	0.40	0.10	52.36	0.51	237.83
2/16	70	4.98	0.15	11.4	0.02	0.09	0.00	0.00	0.0213	61.4	0.097	33.3	0.42	0.10	52.46	0.45	238.27
2/17	71	4.83	0.20	11.4	0.02	0.08	0.00	0.00	0.0214	61.7	0.097	33.3	0.43	0.10	52.56	0.39	238.66
2/18	72	5.06	0.20	11.4	0.02	0.09	0.00	0.00	0.0214	61.7	0.097	33.3	0.44	0.10	52.66	0.46	239.12
2/19	73	4.98	0.15	11.4	0.02	0.08	0.00	0.00	0.0214	61.7	0.097	33.3	0.45	0.10	52.76	0.40	239.51
2/20	74	4.71	0.20	11.3	0.02	0.11	0.00	0.00	0.0215	62.0	0.098	33.7	0.46	0.09	52.85	0.52	240.03
2/21	75	3.99	0.25	11.3	0.02	0.11	0.00	0.00	0.0215	62.0	0.098	33.7	0.47	0.08	52.93	0.44	240.47
2/22	76	5.49	0.15	11.3	0.02	0.07	0.00	0.00	0.0216	62.2	0.098	33.7	0.48	0.11	53.04	0.38	240.86
2/23	77		Rest Cycle														
3/8	90																
3/9	91	4.33	0.00	9.9	0.11	0.71	0.00	0.00	0.0218	62.8	0.099	34.0	0.52	0.48	53.52	3.07	243.93
3/10	92	5.59	0.15	11.3	0.05	0.42	0.00	0.00	0.0219	63.1	0.100	34.4	0.53	0.28	53.80	2.35	246.28
3/11	93	4.84	0.25	11.4	0.02	0.16	0.00	0.00	0.0219	63.1	0.100	34.4	0.53	0.10	53.89	0.77	247.05
3/12	94	4.95	0.20	11.4	0.02	0.15	0.00	0.01	0.0220	63.4	0.101	34.7	0.54	0.10	53.99	0.74	247.79
3/13	95	4.82	0.20	11.4	0.02	0.13	0.00	0.01	0.0220	63.4	0.101	34.7	0.55	0.10	54.09	0.58	248.37
3/14	96	5.19	0.15	11.2	0.02	0.13	0.00	0.01	0.0220	63.4	0.101	34.7	0.56	0.10	54.19	0.62	248.99
3/15	97	3.56	0.15	11.3	0.02	0.14	0.00	0.00	0.0221	63.7	0.101	34.7	0.58	0.07	54.26	0.45	249.44
3/16	98		Rest Cycle														
3/29	111																
3/30	112	3.99	0.00	9.7	0.05	0.36	0.00	0.00	0.0221	63.7	0.102	35.1	0.62	0.20	54.46	1.44	250.88
3/31	113	6.75	0.15	11.2	0.03	0.27	0.00	0.00	0.0222	64.0	0.103	35.4	0.63	0.20	54.67	1.82	252.70
4/1	114	5.28	0.15	11.0	0.01	0.11	0.00	0.00	0.0222	64.0	0.103	35.4	0.64	0.05	54.72	0.58	253.28
4/2	115	4.55	0.15	10.8	0.01	0.14	0.00	0.00	0.0223	64.3	0.103	35.4	0.66	0.05	54.76	0.64	253.92
4/3	116	5.15	0.20	11.1	0.02	0.13	0.00	0.00	0.0223	64.3	0.104	35.7	0.66	0.10	54.87	0.67	254.59
4/4	117	5.03	0.20	11.0	0.01	0.13	0.00	0.01	0.0223	64.3	0.104	35.7	0.67	0.05	54.92	0.65	255.24
4/5	118	4.69	0.20	11.0	0.02	0.13	0.00	0.01	0.0224	64.6	0.104	35.7	0.68	0.09	55.01	0.56	255.80
4/6	119		Rest Cycle														
4/19	132																
4/20	133	4.75	0.00	10.1	0.05	0.46	0.00	0.02	0.0225	64.8	0.105	36.1	0.72	0.24	55.25	2.19	257.98
4/21	134	4.68	0.15	11.3	0.03	0.27	0.00	0.00	0.0225	64.8	0.105	36.1	0.73	0.14	55.39	1.16	259.15
4/22	135	5.02	0.20	11.4	0.02	0.15	0.00	0.01	0.0226	65.1	0.106	36.4	0.74	0.10	55.49	0.75	259.90
4/23	136	5.03	0.20	11.0	0.01	0.12	0.00	0.01	0.0226	65.1	0.106	36.4	0.75	0.05	55.54	0.55	260.45
4/24	137	5.07	0.25	10.8	0.01	0.11	0.00	0.01	0.0226	65.1	0.106	36.4	0.75	0.05	55.59	0.51	260.96
4/25	138	4.81	0.15	10.9	0.02	0.14	0.00	0.01	0.0226	65.1	0.106	36.4	0.76	0.10	55.69	0.62	261.58
4/26	139	4.96	0.15	10.8	0.00	0.12	0.00	0.01	0.0226	65.1	0.107	36.8	0.78	0.00	55.69	0.54	262.13
4/27	140		Rest Cycle														

3439 P-11

Ore Charge				NaCN added	123.48	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	0.79	lb/ton ore				Au	Ag
71.74	kg	0.072	mt								
158.16	lb	0.0791	ton		12.0	lbs Cement/ton of ore			Avg. Head	0.027	0.22
									Head Screen	0.0365	0.21
									Tail Screen	0.0120	0.183
									Tail Assay		

Daily Column Leach Test Data,
Sample I.D. DA-001 (LG)
Test Conditions,

Feed Size, 80% minus 1/2"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
5/10	153																
5/11	154	4.62	0.00	10.6	0.05	0.39	0.00	0.01	0.0227	65.4	0.107	36.8	0.81	0.23	55.92	1.80	263.93
			Rinse Cycle														
5/12	155	4.61	0.10	11.6	0.00	0.22	0.00	0.01	0.0227	65.4	0.108	37.1	0.81	0.00	55.92	1.01	264.94
5/13	156	4.65	0.05	11.1	0.00	0.10	0.00	0.01	0.0227	65.4	0.108	37.1	0.81	0.00	55.92	0.41	265.36
5/14	157	5.37	0.00	11.5	0.00	0.05	0.00	0.03	0.0227	65.4	0.108	37.1	0.81	0.00	55.92	0.27	265.62
5/15	158	4.48	0.00	11.7	0.00	0.04	0.00	0.03	0.0227	65.4	0.108	37.1	0.80	0.00	55.92	0.18	265.80
5/16	159	5.40	0.00	11.6	0.00	0.03	0.02	0.07	0.0227	65.4	0.108	37.1	0.79	0.00	55.92	0.16	265.97
			Drain Down														

Extracted, oz/ton of ore	**0.0227**	**65.4**	**0.108**	**37.1**
Estimated Tail , oz/ton of ore	**0.0120**		**0.183**	
Calculated Head, oz/ton of ore	**0.0347**		**0.291**	

3439 P-12

Ore Charge				NaCN added	123.47	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	2.38	lb/ton ore				Au	Ag
70.15	kg	0.070	mt								
154.65	lb	0.0773	ton		12.0	lbs Cement/ton of ore				Avg. Head	0.054	0.80
										Head Screen	0.0601	0.78
										Tail Screen	0.0031	0.371
										Tail Assay		

Daily Column Leach Test Data,
Sample I.D. DP-004 (MG)
Test Conditions,

Feed Size, 80% minus 1/2"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
12/9	1												0.00	0.00	0.00	0.00	0.00
12/10	2	1.14	0.00	9.8	6.44	2.92	0.00	0.00	0.0031	6.0	0.001	0.1	0.04	7.34	7.34	3.33	3.33
12/11	3	4.64	0.05	10.4	8.58	28.40	0.00	0.00	0.0196	37.6	0.056	7.2	0.07	39.81	47.15	131.78	135.10
12/12	4	5.31	0.10	10.3	4.83	17.60	0.01	0.00	0.0303	58.2	0.095	12.2	0.09	25.65	72.80	93.46	228.56
12/13	5	5.21	0.20	10.1	2.64	12.20	0.00	0.00	0.0360	69.1	0.121	15.5	0.09	13.70	86.50	63.56	292.12
12/14	6	4.70	0.15	10.2	1.39	6.90	0.00	0.00	0.0387	74.3	0.135	17.3	0.11	6.53	93.04	32.43	324.55
12/15	7	5.03	0.05	10.1	0.68	4.29	0.00	0.00	0.0401	77.0	0.144	18.4	0.14	3.42	96.46	21.58	346.13
12/16	8	5.00	0.10	10.1	0.56	4.46	0.00	0.00	0.0413	79.3	0.153	19.6	0.16	2.80	99.26	22.30	368.43
12/17	9	5.06	0.15	10.3	0.47	4.82	0.00	0.01	0.0423	81.2	0.163	20.9	0.18	2.38	101.64	24.39	392.82
12/18	10	4.48	0.15	10.2	0.41	5.10	0.00	0.00	0.0430	82.5	0.173	22.2	0.19	1.84	103.47	22.80	415.62
12/19	11	5.08	0.15	10.2	0.32	4.44	0.00	0.01	0.0437	83.9	0.182	23.3	0.21	1.63	105.10	22.56	438.17
12/20	12	5.23	0.15	10.0	0.24	3.52	0.00	0.01	0.0442	84.8	0.190	24.3	0.22	1.26	106.35	18.36	456.53
12/21	13	4.84	0.15	10.2	0.20	3.50	0.00	0.00	0.0446	85.6	0.197	25.2	0.24	0.97	107.32	16.89	473.42
12/22	14	4.51	0.10	9.6	0.16	2.98	0.00	0.00	0.0449	86.2	0.202	25.9	0.26	0.72	108.04	13.44	486.86
12/23	15	4.83	0.10	10.0	0.15	2.64	0.00	0.00	0.0452	86.8	0.208	26.6	0.29	0.72	108.77	12.75	499.61
12/24	16	5.50	0.10	10.2	0.12	2.47	0.00	0.00	0.0455	87.3	0.213	27.3	0.31	0.66	109.43	13.59	513.20
12/25	17	4.46	0.10	10.1	0.12	2.41	0.00	0.00	0.0457	87.7	0.218	27.9	0.33	0.54	109.96	10.75	523.95
12/26	18	5.89	0.10	10.1	0.11	2.36	0.00	0.00	0.0460	88.3	0.224	28.7	0.35	0.65	110.61	13.90	537.85
12/27	19	4.26	0.15	10.1	0.08	2.24	0.00	0.00	0.0461	88.5	0.228	29.2	0.37	0.34	110.95	9.54	547.39
12/28	20	5.41	0.10	10.0	0.09	2.60	0.00	0.00	0.0463	88.9	0.233	29.8	0.39	0.49	111.44	14.07	561.45
12/29	21	5.55	0.10	10.1	0.07	2.11	0.00	0.00	0.0465	89.3	0.238	30.5	0.41	0.39	111.83	11.71	573.16
12/30	22	4.76	0.10	10.2	0.06	2.08	0.00	0.00	0.0466	89.4	0.242	31.0	0.43	0.29	112.11	9.90	583.07
12/31	23	4.51	0.10	10.1	0.07	2.29	0.00	0.00	0.0467	89.6	0.247	31.6	0.46	0.32	112.43	10.33	593.39
1/1	24	4.73	0.20	10.2	0.06	2.08	0.00	0.00	0.0469	90.0	0.251	32.1	0.47	0.28	112.71	9.84	603.23
1/2	25	4.67	0.10	10.1	0.06	2.18	0.00	0.00	0.0470	90.2	0.255	32.7	0.49	0.28	112.99	10.18	613.41
1/3	26	6.12	0.05	9.8	0.06	2.21	0.00	0.00	0.0471	90.4	0.261	33.4	0.52	0.37	113.36	13.53	626.94
1/4	27	4.60	0.10	10.6	0.04	1.71	0.00	0.00	0.0472	90.6	0.264	33.8	0.54	0.18	113.54	7.87	634.80
1/5	28	4.68	0.15	10.4	0.04	1.94	0.00	0.00	0.0473	90.8	0.268	34.3	0.56	0.19	113.73	9.08	643.88
1/6	29	5.24	0.15	10.2	0.04	1.94	0.00	0.01	0.0474	91.0	0.272	34.8	0.57	0.21	113.94	10.17	654.05
1/7	30	4.85	0.10	10.3	0.04	1.60	0.00	0.01	0.0475	91.2	0.275	35.2	0.59	0.19	114.13	7.71	661.76
1/8	31	5.30	0.10	10.4	0.04	1.39	0.00	0.00	0.0475	91.2	0.278	35.6	0.62	0.21	114.35	7.32	669.07
1/9	32	4.62	0.10	10.4	0.04	1.60	0.00	0.00	0.0476	91.4	0.281	36.0	0.64	0.18	114.53	7.39	676.47
1/10	33	4.26	0.10	10.1	0.04	1.76	0.00	0.00	0.0477	91.6	0.284	36.4	0.66	0.17	114.70	7.50	683.96
1/11	34	5.27	0.10	10.3	0.03	1.65	0.00	0.00	0.0478	91.7	0.288	36.9	0.68	0.16	114.86	8.70	692.66
1/12	35	5.08	0.10	10.1	0.03	1.60	0.00	0.00	0.0478	91.7	0.291	37.3	0.71	0.15	115.01	8.13	700.79
1/13	36	5.15	0.15	10.2	0.03	1.79	0.00	0.01	0.0479	91.9	0.295	37.8	0.72	0.15	115.17	9.22	710.00
1/14	37	4.70	0.10	10.0	0.03	1.75	0.00	0.01	0.0479	91.9	0.299	38.3	0.74	0.14	115.31	8.17	718.18
1/15	38	5.58	0.10	10.2	0.02	1.48	0.00	0.01	0.0480	92.1	0.302	38.7	0.76	0.11	115.42	8.21	726.39
1/16	39	4.84	0.10	10.0	0.02	1.47	0.00	0.01	0.0480	92.1	0.305	39.1	0.79	0.10	115.52	7.06	733.45
1/17	40	4.60	0.10	10.1	0.03	1.75	0.00	0.00	0.0481	92.3	0.308	39.4	0.81	0.14	115.65	8.00	741.45
1/18	41	5.23	0.10	10.3	0.02	1.47	0.00	0.01	0.0481	92.3	0.311	39.8	0.83	0.10	115.76	7.69	749.14
1/19	42	4.81	0.10	10.1	0.03	1.36	0.00	0.01	0.0482	92.5	0.314	40.2	0.85	0.14	115.90	6.49	755.63
1/20	43	5.30	0.10	10.2	0.02	1.41	0.00	0.01	0.0482	92.5	0.317	40.6	0.88	0.11	116.01	7.42	763.05
1/21	44	4.16	0.10	10.2	0.02	1.45	0.00	0.01	0.0483	92.7	0.320	41.0	0.90	0.08	116.09	5.98	769.03
1/22	45	5.18	0.10	10.1	0.01	1.35	0.00	0.01	0.0483	92.7	0.323	41.4	0.92	0.05	116.14	6.94	775.97
1/23	46	5.39	0.10	10.2	0.02	1.25	0.00	0.01	0.0483	92.7	0.325	41.6	0.94	0.11	116.25	6.69	782.66
1/24	47	4.91	0.10	10.2	0.02	1.34	0.00	0.00	0.0484	92.9	0.328	42.0	0.97	0.10	116.35	6.53	789.19
1/25	48	4.61	0.05	9.9	0.02	1.20	0.00	0.01	0.0484	92.9	0.330	42.3	1.00	0.09	116.44	5.53	794.72
1/26	49	5.41	0.10	9.9	0.01	1.10	0.00	0.01	0.0484	92.9	0.333	42.6	1.02	0.05	116.50	5.90	800.62
1/27	50	4.45	0.05	9.6	0.01	1.04	0.00	0.01	0.0485	93.1	0.335	42.9	1.05	0.04	116.54	4.58	805.20
1/28	51	5.34	0.05	10.0	0.02	1.13	0.00	0.00	0.0485	93.1	0.337	43.1	1.08	0.11	116.65	5.98	811.18
1/29	52	5.02	0.05	10.0	0.01	0.81	0.00	0.00	0.0485	93.1	0.339	43.4	1.11	0.05	116.70	4.07	815.25

3439 P-12

Ore Charge				NaCN added	123.47	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	2.38	lb/ton ore				Au	Ag
70.15	kg	0.070	mt								
154.65	lb	0.0773	ton		12.0	lbs Cement/ton of ore					
									Avg. Head	0.054	0.80
									Head Screen	0.0601	0.78
									Tail Screen	0.0031	0.371
									Tail Assay		

Daily Column Leach Test Data,
Sample I.D. DP-004 (MG)
Test Conditions,

Feed Size, 80% minus 1/2"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
1/30	53	5.30	0.05	9.9	0.01	0.57	0.00	0.00	0.0485	93.1	0.340	43.5	1.13	0.05	116.75	3.02	818.27
1/31	54	4.69	0.00	9.9	0.01	0.35	0.00	0.00	0.0486	93.3	0.341	43.7	1.17	0.05	116.80	1.64	819.91
2/1	55	5.22	0.00	9.5	0.00	0.26	0.00	0.00	0.0486	93.3	0.341	43.7	1.21	0.00	116.80	1.36	821.27
2/2	56	4.48	0.05	10.0	0.00	0.19	0.00	0.00	0.0486	93.3	0.342	43.8	1.24	0.00	116.80	0.85	822.12
2/3	57	4.65	0.05	10.0	0.00	0.19	0.00	0.00	0.0486	93.3	0.342	43.8	1.27	0.00	116.80	0.88	823.00
2/4	58	5.40	0.05	10.1	0.00	0.14	0.00	0.00	0.0486	93.3	0.343	43.9	1.30	0.00	116.80	0.76	823.76
2/5	59	5.21	0.05	10.1	0.00	0.13	0.00	0.00	0.0486	93.3	0.343	43.9	1.33	0.00	116.80	0.68	824.43
2/6	60	4.87	0.05	9.8	0.00	0.19	0.00	0.01	0.0486	93.3	0.343	43.9	1.35	0.00	116.80	0.93	825.36
2/7	61	4.57	0.00	10.0	0.00	0.17	0.00	0.00	0.0486	93.3	0.343	43.9	1.39	0.00	116.80	0.73	826.08
2/8	62	3.96	0.05	10.1	0.00	0.15	0.00	0.00	0.0486	93.3	0.344	44.0	1.42	0.00	116.80	0.59	826.68
2/9	63	6.54	0.00	9.9	0.00	0.17	0.00	0.00	0.0486	93.3	0.344	44.0	1.46	0.00	116.80	1.11	827.79
2/10	64	5.08	0.05	10.1	0.00	0.11	0.00	0.00	0.0486	93.3	0.344	44.0	1.49	0.00	116.80	0.56	828.35
2/11	65	4.56	0.00	10.1	0.00	0.11	0.00	0.00	0.0486	93.3	0.345	44.2	1.52	0.00	116.80	0.50	828.85
2/12	66	5.27	0.00	10.0	0.01	0.10	0.00	0.00	0.0486	93.3	0.345	44.2	1.56	0.05	116.85	0.53	829.38
2/13	67	4.93	0.00	9.9	0.00	0.10	0.00	0.00	0.0486	93.3	0.345	44.2	1.60	0.00	116.85	0.49	829.87
2/14	68	4.85	0.00	9.9	0.00	0.13	0.00	0.00	0.0486	93.3	0.345	44.2	1.63	0.00	116.85	0.63	830.50
2/15	69	5.11	0.00	9.8	0.00	0.12	0.00	0.00	0.0486	93.3	0.346	44.3	1.67	0.00	116.85	0.61	831.11
2/16	70	4.97	0.00	10.0	0.00	0.10	0.00	0.00	0.0486	93.3	0.346	44.3	1.71	0.00	116.85	0.50	831.61
2/17	71	4.71	0.00	9.8	0.00	0.08	0.00	0.00	0.0486	93.3	0.346	44.3	1.74	0.00	116.85	0.38	831.99
2/18	72	5.19	0.00	9.9	0.00	0.08	0.00	0.00	0.0486	93.3	0.346	44.3	1.78	0.00	116.85	0.42	832.40
2/19	73	4.99	0.05	9.9	0.00	0.09	0.00	0.00	0.0486	93.3	0.346	44.3	1.81	0.00	116.85	0.45	832.85
2/20	74	4.60	0.00	9.7	0.00	0.11	0.00	0.00	0.0486	93.3	0.346	44.3	1.85	0.00	116.85	0.51	833.36
2/21	75	5.36	0.00	9.8	0.00	0.09	0.00	0.00	0.0486	93.3	0.347	44.4	1.88	0.00	116.85	0.48	833.84
2/22	76	4.03	0.00	9.8	0.00	0.10	0.00	0.00	0.0486	93.3	0.347	44.4	1.92	0.00	116.85	0.40	834.24
2/23	77		Rest Cycle														
3/8	90																
3/9	91	5.14	0.00	8.9	0.00	0.25	0.00	0.01	0.0486	93.3	0.347	44.4	1.96	0.00	116.85	1.29	835.53
3/10	92	5.39	0.10	10.1	0.00	1.05	0.00	0.00	0.0486	93.3	0.350	44.8	1.98	0.00	116.85	5.61	841.14
3/11	93	4.93	0.10	10.2	0.01	1.14	0.00	0.01	0.0486	93.3	0.352	45.1	2.00	0.05	116.90	5.62	846.76
3/12	94	4.96	0.10	10.2	0.01	1.21	0.00	0.02	0.0486	93.3	0.355	45.5	2.02	0.05	116.95	5.95	852.71
3/13	95	4.86	0.10	10.2	0.01	1.07	0.00	0.02	0.0486	93.3	0.357	45.7	2.04	0.05	117.00	5.10	857.81
3/14	96	5.15	0.15	10.0	0.01	1.14	0.00	0.02	0.0487	93.5	0.359	46.0	2.06	0.05	117.05	5.77	863.58
3/15	97	0.88	0.05	9.7	0.01	1.23	0.00	0.01	0.0487	93.5	0.359	46.0	2.07	0.01	117.06	1.04	864.61
3/16	98		Rest Cycle														
3/29	111																
3/30	112	6.08	0.00	9.1	0.05	3.70	0.00	0.03	0.0488	93.7	0.369	47.2	2.11	0.30	117.36	22.50	887.11
3/31	113	4.81	0.05	9.9	0.03	2.95	0.00	0.02	0.0489	93.9	0.375	48.0	2.14	0.14	117.51	14.04	901.14
4/1	114	5.26	0.15	9.9	0.00	0.93	0.00	0.02	0.0489	93.9	0.377	48.3	2.15	0.00	117.51	4.79	905.93
4/2	115	4.54	0.15	9.8	0.00	1.19	0.00	0.03	0.0489	93.9	0.379	48.5	2.17	0.00	117.51	5.30	911.23
4/3	116	5.23	0.15	10.0	0.00	1.05	0.00	0.03	0.0489	93.9	0.381	48.8	2.19	0.00	117.51	5.34	916.57
4/4	117	5.05	0.10	9.9	0.00	0.84	0.00	0.03	0.0489	93.9	0.383	49.0	2.21	0.00	117.51	4.09	920.66
4/5	118	4.64	0.10	10.0	0.00	0.86	0.00	0.03	0.0489	93.9	0.384	49.2	2.23	0.00	117.51	3.84	924.50
4/6	119		Rest Cycle														
4/19	132																
4/20	133	4.93	0.00	9.0	0.02	1.72	0.00	0.03	0.0489	93.9	0.388	49.7	2.27	0.10	117.60	8.48	932.98
4/21	134	4.66	0.10	10.0	0.01	1.65	0.00	0.02	0.0489	93.9	0.391	50.1	2.29	0.05	117.65	7.54	940.51
4/22	135	5.06	0.15	10.3	0.00	1.09	0.00	0.03	0.0489	93.9	0.393	50.3	2.31	0.00	117.65	5.41	945.93
4/23	136	5.07	0.15	9.9	0.00	0.89	0.00	0.04	0.0489	93.9	0.395	50.6	2.32	0.00	117.65	4.36	950.29
4/24	137	5.08	0.15	9.8	0.00	0.75	0.00	0.04	0.0489	93.9	0.397	50.8	2.33	0.00	117.65	3.61	953.89
4/25	138	4.80	0.15	9.8	0.01	0.91	0.00	0.04	0.0489	93.9	0.398	51.0	2.35	0.05	117.70	4.16	958.06
4/26	139	5.00	0.15	9.8	0.00	0.85	0.00	0.04	0.0489	93.9	0.400	51.2	2.37	0.00	117.70	4.05	962.10
4/27	140		Rest Cycle														

3439 P-12

Ore Charge				NaCN added	123.47	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	2.38	lb/ton ore				Au	Ag
70.15	kg	0.070	mt								
154.65	lb	0.0773	ton		12.0	lbs Cement/ton of ore					
									Avg. Head	0.054	0.80
									Head Screen	0.0601	0.78
									Tail Screen	0.0031	0.371
									Tail Assay		

Daily Column Leach Test Data,

Sample I.D. DP-004 (MG)

Test Conditions,

Feed Size, 80% minus 1/2"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
	Days	Vol.	NaCN Conc.		Au	Ag	Au	Ag	Cum.	Cum.	Cum.	Cum.	Consumed		cum.		cum.
Date	Leached	l.	g/l	pH	ppm	ppm	ppm	ppm	oz/ton	%	oz/ton	%	lb/ton	mg	mg	mg	mg
5/10	153																
5/11	154	4.78	0.00	9.4	0.03	2.18	0.00	0.04	0.0490	94.1	0.404	51.7	2.40	0.14	117.84	10.42	972.52
			Rinse Cycle														
5/12	155	4.67	0.10	10.3	0.00	1.98	0.00	0.04	0.0490	94.1	0.408	52.2	2.40	0.00	117.84	9.25	981.77
5/13	156	4.76	0.10	10.0	0.00	0.73	0.00	0.01	0.0490	94.1	0.410	52.5	2.40	0.00	117.84	3.27	985.04
5/14	157	5.27	0.00	10.4	0.00	0.23	0.00	0.12	0.0490	94.1	0.410	52.5	2.40	0.00	117.84	1.21	986.25
5/15	158	4.55	0.00	10.7	0.00	0.07	0.00	0.16	0.0490	94.1	0.410	52.5	2.39	0.00	117.84	0.32	986.57
5/16	159	5.32	0.00	10.6	0.00	0.07	0.00	0.12	0.0490	94.1	0.410	52.5	2.38	0.00	117.84	0.37	986.94
			Drain Down														
								Extracted, oz/ton of ore	**0.0490**	**94.1**	**0.410**	**52.5**					
								Estimated Tail , oz/ton of ore	**0.0031**		**0.371**						
								Calculated Head, oz/ton of ore	**0.0521**		**0.781**						

3439 P-13

Ore Charge				NaCN added	123.18	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	2.12	lb/ton ore				Au	Ag
71.47	kg	0.071	mt								
157.56	lb	0.0788	ton		12.0	lbs Cement/ton of ore					
									Avg. Head	0.100	0.75
									Head Screen	0.1127	0.76
									Tail Screen	0.0200	0.347
									Tail Assay		

Daily Column Leach Test Data,

Sample I.D. DP-005 (MG)

Test Conditions,

Feed Size, 80% minus 1/2"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
12/9	1												0.00	0.00	0.00	0.00	0.00
12/10	2	1.83	0.00	10.0	6.78	5.26	0.00	0.00	0.0051	4.2	0.004	0.6	0.04	12.41	12.41	9.63	9.63
12/11	3	4.63	0.10	11.2	14.75	28.20	0.00	0.00	0.0329	26.8	0.057	8.2	0.06	68.29	80.70	130.57	140.19
12/12	4	5.32	0.20	11.0	9.51	16.30	0.00	0.00	0.0536	43.6	0.093	13.3	0.06	50.59	131.29	86.72	226.91
12/13	5	5.21	0.20	10.9	5.12	11.40	0.00	0.01	0.0645	52.5	0.117	16.8	0.07	26.68	157.97	59.39	286.30
12/14	6	4.68	0.10	10.9	3.61	6.95	0.00	0.00	0.0714	58.1	0.130	18.6	0.09	16.89	174.86	32.48	318.78
12/15	7	5.03	0.15	10.9	2.22	5.58	0.00	0.01	0.0759	61.8	0.142	20.3	0.11	11.17	186.03	28.07	346.84
12/16	8	4.98	0.20	10.8	1.63	5.58	0.00	0.00	0.0792	64.5	0.153	21.9	0.12	8.12	194.15	27.74	374.58
12/17	9	5.01	0.20	10.8	1.26	5.04	0.00	0.01	0.0818	66.6	0.163	23.4	0.12	6.31	200.46	25.25	399.83
12/18	10	4.49	0.15	10.7	1.06	4.50	0.00	0.00	0.0838	68.2	0.171	24.5	0.14	4.76	205.22	20.15	419.99
12/19	11	5.18	0.15	10.8	0.93	4.26	0.00	0.01	0.0857	69.8	0.180	25.8	0.16	4.82	210.04	22.07	442.05
12/20	12	5.12	0.15	10.7	0.66	3.50	0.00	0.01	0.0871	70.9	0.188	26.9	0.17	3.38	213.42	17.87	459.92
12/21	13	4.80	0.20	10.7	0.57	3.56	0.00	0.01	0.0882	71.8	0.195	27.9	0.18	2.74	216.15	17.04	476.96
12/22	14	4.48	0.20	10.4	0.50	3.16	0.00	0.00	0.0891	72.6	0.200	28.7	0.19	2.24	218.39	14.11	491.06
12/23	15	4.78	0.20	10.8	0.45	2.87	0.00	0.00	0.0900	73.3	0.206	29.5	0.20	2.15	220.54	13.72	504.78
12/24	16	5.91	0.20	11.0	0.35	2.32	0.00	0.01	0.0908	73.9	0.212	30.4	0.20	2.07	222.61	13.71	518.49
12/25	17	4.08	0.20	11.0	0.33	2.00	0.00	0.00	0.0914	74.4	0.215	30.8	0.21	1.35	223.96	8.11	526.60
12/26	18	5.88	0.15	11.0	0.30	1.83	0.00	0.01	0.0921	75.0	0.219	31.4	0.23	1.76	225.72	10.76	537.36
12/27	19	4.10	0.10	10.9	0.26	1.73	0.00	0.00	0.0926	75.4	0.222	31.8	0.25	1.07	226.79	7.04	544.41
12/28	20	5.55	0.15	10.8	0.28	2.16	0.00	0.00	0.0932	75.9	0.227	32.5	0.26	1.55	228.34	11.99	556.39
12/29	21	5.56	0.15	11.0	0.23	1.97	0.00	0.02	0.0937	76.3	0.232	33.2	0.27	1.28	229.62	10.95	567.35
12/30	22	4.77	0.15	11.2	0.21	1.99	0.00	0.01	0.0941	76.6	0.235	33.7	0.29	1.00	230.62	9.39	576.74
12/31	23	4.49	0.15	10.9	0.21	1.99	0.00	0.01	0.0945	77.0	0.239	34.2	0.31	0.94	231.57	8.88	585.62
1/1	24	4.63	0.20	11.0	0.19	1.78	0.00	0.03	0.0949	77.3	0.242	34.7	0.32	0.88	232.44	8.19	593.81
1/2	25	4.66	0.10	11.1	0.20	1.93	0.00	0.02	0.0952	77.5	0.246	35.2	0.34	0.93	233.38	8.84	602.65
1/3	26	6.24	0.15	10.9	0.19	1.83	0.00	0.02	0.0957	77.9	0.251	36.0	0.35	1.19	234.56	11.32	613.97
1/4	27	4.57	0.15	11.2	0.15	1.50	0.00	0.02	0.0960	78.2	0.253	36.2	0.37	0.69	235.25	6.75	620.72
1/5	28	4.93	0.15	11.0	0.14	1.39	0.00	0.02	0.0963	78.4	0.256	36.7	0.38	0.69	235.94	6.75	627.47
1/6	29	4.90	0.10	11.1	0.11	1.16	0.00	0.02	0.0965	78.6	0.258	37.0	0.40	0.54	236.48	5.58	633.06
1/7	30	4.68	0.10	11.1	0.11	1.05	0.00	0.02	0.0967	78.7	0.260	37.2	0.43	0.51	236.99	4.81	637.87
1/8	31	5.54	0.10	11.2	0.09	0.89	0.00	0.01	0.0969	78.9	0.262	37.5	0.45	0.50	237.49	4.83	642.70
1/9	32	4.58	0.10	11.1	0.09	0.95	0.00	0.01	0.0971	79.1	0.264	37.8	0.47	0.41	237.90	4.30	647.00
1/10	33	4.21	0.10	10.8	0.09	0.92	0.00	0.01	0.0972	79.2	0.266	38.1	0.49	0.38	238.28	3.82	650.82
1/11	34	4.81	0.05	10.9	0.08	0.84	0.00	0.01	0.0974	79.3	0.267	38.3	0.52	0.38	238.67	3.99	654.81
1/12	35	5.05	0.10	10.9	0.07	0.73	0.00	0.01	0.0975	79.4	0.269	38.5	0.54	0.35	239.02	3.64	658.44
1/13	36	5.52	0.05	11.0	0.06	0.73	0.00	0.02	0.0977	79.6	0.270	38.7	0.57	0.33	239.35	3.98	662.42
1/14	37	4.24	0.05	10.9	0.06	0.70	0.00	0.01	0.0978	79.6	0.272	39.0	0.60	0.25	239.61	2.87	665.29
1/15	38	6.29	0.10	10.9	0.06	0.64	0.00	0.02	0.0979	79.7	0.273	39.1	0.62	0.38	239.98	3.97	669.26
1/16	39	4.93	0.10	10.7	0.07	0.82	0.00	0.02	0.0981	79.9	0.275	39.4	0.64	0.35	240.33	3.94	673.20
1/17	40	0.78	0.00	9.6	0.07	0.87	0.00	0.02	0.0981	79.9	0.275	39.4	0.65	0.05	240.38	0.65	673.86
1/18	41	3.84	0.05	10.8	0.10	1.23	0.00	0.01	0.0983	80.0	0.277	39.7	0.68	0.38	240.77	4.62	678.48
1/19	42	5.28	0.05	10.9	0.05	0.74	0.00	0.02	0.0984	80.1	0.278	39.8	0.71	0.26	241.03	3.86	682.33
1/20	43	5.51	0.10	11.0	0.06	0.72	0.00	0.02	0.0985	80.2	0.280	40.1	0.73	0.33	241.36	3.87	686.20
1/21	44	4.17	0.10	10.8	0.06	0.74	0.00	0.01	0.0986	80.3	0.281	40.3	0.75	0.25	241.61	2.98	689.18
1/22	45	5.53	0.05	10.9	0.06	0.68	0.00	0.02	0.0987	80.4	0.283	40.5	0.78	0.33	241.94	3.71	692.89
1/23	46	4.72	0.10	10.9	0.05	0.63	0.00	0.02	0.0988	80.5	0.284	40.7	0.81	0.24	242.18	2.87	695.76
1/24	47	5.05	0.05	10.9	0.06	0.65	0.00	0.01	0.0990	80.6	0.285	40.8	0.83	0.30	242.48	3.18	698.95
1/25	48	5.00	0.05	10.8	0.04	0.52	0.00	0.02	0.0990	80.6	0.286	41.0	0.86	0.20	242.68	2.55	701.49
1/26	49	4.79	0.10	10.7	0.03	0.52	0.00	0.02	0.0991	80.7	0.287	41.1	0.89	0.14	242.83	2.39	703.88
1/27	50	4.79	0.05	10.8	0.03	0.52	0.00	0.02	0.0992	80.8	0.288	41.3	0.91	0.14	242.97	2.39	706.27
1/28	51	5.38	0.05	11.0	0.03	0.49	0.00	0.01	0.0992	80.8	0.289	41.4	0.94	0.16	243.13	2.54	708.81
1/29	52	4.82	0.05	10.8	0.03	0.45	0.00	0.01	0.0993	80.9	0.290	41.5	0.97	0.14	243.28	2.12	710.93

3439 P-13

Ore Charge				NaCN added	123.18	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	2.12	lb/ton ore				Au	Ag
71.47	kg	0.071	mt								
157.56	lb	0.0788	ton		12.0	lbs Cement/ton of ore					
									Avg. Head	0.100	0.75
									Head Screen	0.1127	0.76
									Tail Screen	0.0200	0.347
									Tail Assay		

Daily Column Leach Test Data,
Sample I.D. DP-005 (MG)
Test Conditions,

Feed Size, 80% minus 1/2"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
1/30	53	5.43	0.05	10.9	0.03	0.44	0.00	0.01	0.0993	80.9	0.291	41.7	1.00	0.16	243.44	2.34	713.26
1/31	54	3.33	0.05	10.6	0.03	0.43	0.00	0.01	0.0994	80.9	0.292	41.8	1.03	0.10	243.54	1.38	714.64
2/1	55	6.14	0.10	10.3	0.03	0.41	0.00	0.02	0.0995	81.0	0.293	42.0	1.05	0.18	243.72	2.47	717.11
2/2	56	4.28	0.05	11.0	0.03	0.38	0.00	0.00	0.0995	81.0	0.293	42.0	1.08	0.13	243.85	1.52	718.64
2/3	57	4.75	0.05	11.0	0.02	0.36	0.00	0.00	0.0996	81.1	0.294	42.1	1.11	0.10	243.95	1.71	720.35
2/4	58	5.92	0.05	11.0	0.02	0.28	0.00	0.00	0.0996	81.1	0.295	42.3	1.14	0.12	244.06	1.66	722.00
2/5	59	4.67	0.05	11.0	0.03	0.33	0.00	0.00	0.0997	81.2	0.295	42.3	1.17	0.14	244.20	1.54	723.54
2/6	60	4.67	0.05	10.6	0.03	0.40	0.00	0.02	0.0997	81.2	0.296	42.4	1.20	0.14	244.34	1.87	725.41
2/7	61	4.51	0.00	10.9	0.02	0.39	0.00	0.01	0.0998	81.3	0.297	42.6	1.23	0.09	244.43	1.66	727.07
2/8	62	4.93	0.05	11.0	0.02	0.33	0.00	0.00	0.0998	81.3	0.297	42.6	1.26	0.10	244.53	1.58	728.64
2/9	63	5.82	0.00	10.8	0.02	0.32	0.00	0.01	0.0998	81.3	0.298	42.7	1.30	0.12	244.65	1.86	730.51
2/10	64	5.08	0.05	10.9	0.02	0.26	0.00	0.00	0.0999	81.4	0.299	42.8	1.32	0.10	244.75	1.27	731.78
2/11	65	4.21	0.05	11.0	0.02	0.28	0.00	0.00	0.0999	81.4	0.299	42.8	1.35	0.08	244.84	1.18	732.96
2/12	66	5.52	0.00	10.8	0.02	0.27	0.00	0.00	0.1000	81.4	0.300	43.0	1.39	0.11	244.95	1.49	734.45
2/13	67	4.89	0.00	10.7	0.02	0.25	0.00	0.00	0.1000	81.4	0.300	43.0	1.43	0.10	245.04	1.22	735.67
2/14	68	4.79	0.00	10.6	0.02	0.29	0.00	0.00	0.1000	81.4	0.301	43.1	1.46	0.10	245.14	1.39	737.06
2/15	69	5.22	0.00	10.8	0.02	0.26	0.00	0.00	0.1001	81.5	0.301	43.1	1.50	0.10	245.24	1.36	738.42
2/16	70	4.92	0.00	10.8	0.02	0.26	0.00	0.00	0.1001	81.5	0.302	43.3	1.53	0.10	245.34	1.28	739.69
2/17	71	4.63	0.05	10.7	0.02	0.24	0.00	0.00	0.1002	81.6	0.302	43.3	1.56	0.09	245.43	1.11	740.81
2/18	72	4.03	0.00	10.7	0.02	0.23	0.00	0.00	0.1002	81.6	0.303	43.4	1.60	0.08	245.52	0.93	741.73
2/19	73	4.85	0.00	10.8	0.01	0.21	0.00	0.00	0.1002	81.6	0.303	43.4	1.63	0.05	245.56	1.02	742.75
2/20	74	5.61	0.05	10.4	0.02	0.25	0.00	0.00	0.1003	81.7	0.304	43.6	1.66	0.11	245.68	1.40	744.15
2/21	75	5.51	0.05	10.7	0.02	0.27	0.00	0.00	0.1003	81.7	0.304	43.6	1.69	0.11	245.79	1.49	745.64
2/22	76	4.53	0.05	10.7	0.02	0.21	0.00	0.00	0.1003	81.7	0.305	43.7	1.72	0.09	245.88	0.95	746.59
2/23	77		Rest Cycle														
3/8	90																
3/9	91	4.03	0.00	9.4	0.04	0.68	0.00	0.03	0.1004	81.8	0.306	43.8	1.76	0.16	246.04	2.74	749.33
3/10	92	5.63	0.15	10.9	0.03	0.85	0.00	0.03	0.1005	81.8	0.308	44.1	1.77	0.17	246.21	4.63	753.97
3/11	93	4.82	0.20	10.9	0.04	0.77	0.00	0.05	0.1006	81.9	0.309	44.3	1.78	0.19	246.40	3.56	757.52
3/12	94	4.94	0.15	10.8	0.05	0.85	0.00	0.06	0.1007	82.0	0.311	44.6	1.79	0.25	246.65	3.94	761.47
3/13	95	4.82	0.15	10.9	0.05	0.77	0.00	0.07	0.1008	82.1	0.312	44.7	1.81	0.24	246.89	3.41	764.87
3/14	96	5.17	0.20	10.7	0.05	0.77	0.00	0.08	0.1009	82.2	0.314	45.0	1.81	0.26	247.15	3.62	768.50
3/15	97	3.47	0.20	10.7	0.05	0.91	0.00	0.06	0.1009	82.2	0.315	45.1	1.83	0.17	247.32	2.75	771.25
3/16	98		Rest Cycle														
3/29	111																
3/30	112	5.99	0.05	9.9	0.18	2.91	0.01	0.25	0.1014	82.6	0.322	46.1	1.86	1.08	248.40	17.43	788.68
3/31	113	4.26	0.05	10.7	0.14	2.56	0.00	0.05	0.1016	82.7	0.326	46.7	1.89	0.55	248.94	9.63	798.31
4/1	114	5.31	0.15	10.5	0.05	0.94	0.00	0.06	0.1017	82.8	0.328	47.0	1.90	0.27	249.21	4.74	803.04
4/2	115	4.27	0.15	10.4	0.05	0.98	0.00	0.08	0.1018	82.9	0.329	47.1	1.92	0.21	249.42	3.88	806.92
4/3	116	5.53	0.10	10.7	0.04	0.80	0.00	0.10	0.1019	83.0	0.331	47.4	1.94	0.22	249.64	4.02	810.94
4/4	117	4.95	0.15	10.5	0.04	0.70	0.00	0.07	0.1020	83.1	0.332	47.6	1.95	0.20	249.84	2.96	813.89
4/5	118	3.98	0.15	10.6	0.04	0.79	0.00	0.08	0.1020	83.1	0.333	47.7	1.97	0.16	250.00	2.79	816.68
4/6	119		Rest Cycle														
4/19	132																
4/20	133	5.64	0.00	9.5	0.06	1.12	0.00	0.10	0.1022	83.2	0.336	48.1	2.01	0.34	250.34	6.32	823.00
4/21	134	4.41	0.10	10.8	0.05	1.11	0.00	0.08	0.1023	83.3	0.338	48.4	2.03	0.22	250.56	4.39	827.38
4/22	135	5.05	0.15	10.9	0.04	0.91	0.00	0.09	0.1023	83.3	0.339	48.6	2.05	0.20	250.76	4.19	831.57
4/23	136	5.11	0.15	10.6	0.03	0.69	0.00	0.09	0.1024	83.4	0.341	48.9	2.06	0.15	250.92	3.07	834.64
4/24	137	5.06	0.20	10.3	0.03	0.65	0.00	0.10	0.1025	83.5	0.342	49.0	2.07	0.15	251.07	2.83	837.47
4/25	138	4.88	0.15	10.3	0.03	0.74	0.00	0.12	0.1025	83.5	0.343	49.1	2.09	0.15	251.21	3.10	840.57
4/26	139	4.89	0.15	10.4	0.01	0.70	0.00	0.11	0.1025	83.5	0.344	49.3	2.10	0.05	251.26	2.81	843.38
4/27	140		Rest Cycle														

3439 P-13

Ore Charge				NaCN added	123.18	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	2.12	lb/ton ore				Au	Ag
71.47	kg	0.071	mt								
157.56	lb	0.0788	ton		12.0	lbs Cement/ton of ore					
									Avg. Head	0.100	0.75
									Head Screen	0.1127	0.76
									Tail Screen	0.0200	0.347
									Tail Assay		

Daily Column Leach Test Data,
Sample I.D. DP-005 (MG)
Test Conditions,

Feed Size, 80% minus 1/2"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
5/10	153																
5/11	154	4.49	0.00	10.0	0.08	1.52	0.00	0.10	0.1027	83.6	0.347	49.7	2.14	0.36	251.62	6.82	850.20
			Rinse Cycle														
5/12	155	4.46	0.10	11.2	0.04	1.30	0.00	0.10	0.1028	83.7	0.349	50.0	2.14	0.18	251.80	5.80	856.00
5/13	156	4.41	0.05	10.9	0.00	0.59	0.00	0.07	0.1028	83.7	0.350	50.1	2.14	0.00	251.80	2.09	858.09
5/14	157	5.26	0.00	11.0	0.00	0.24	0.00	0.28	0.1028	83.7	0.351	50.3	2.14	0.00	251.80	1.26	859.36
5/15	158	4.24	0.00	11.2	0.00	0.10	0.00	0.29	0.1028	83.7	0.351	50.3	2.12	0.00	251.80	0.42	859.78
5/16	159	5.54	0.00	11.1	0.00	0.06	0.00	0.24	0.1028	83.7	0.351	50.3	2.12	0.00	251.80	0.33	860.11
			Drain Down														
									0.1028	**83.7**	**0.351**	**50.3**					
									0.0200		**0.347**						
									0.1228		**0.698**						

Extracted, oz/ton of ore
Estimated Tail , oz/ton of ore
Calculated Head, oz/ton of ore

3439 P-14

Ore Charge				NaCN added	122.02	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	2.05	lb/ton ore				Au	Ag
72.40	kg	0.072	mt								
159.61	lb	0.0798	ton		12.0	lbs Cement/ton of ore			Avg. Head	0.040	0.45
									Head Screen	0.0350	0.44
									Tail Screen	0.0130	0.263
									Tail Assay		

Daily Column Leach Test Data,

Sample I.D. HM-MG (Comp)

Test Conditions,

Feed Size, 80% minus 1/2"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
12/9	1												0.00	0.00	0.00	0.00	0.00
12/10	2	2.02	0.00	9.7	1.48	2.97	0.00	0.00	0.0012	3.4	0.002	0.4	0.04	2.99	2.99	6.00	6.00
12/11	3	4.62	0.10	10.7	2.82	16.70	0.00	0.00	0.0065	18.7	0.033	7.4	0.06	13.03	16.02	77.15	83.15
12/12	4	5.43	0.15	10.4	1.53	9.55	0.00	0.00	0.0098	28.2	0.054	12.1	0.07	8.31	24.33	51.86	135.01
12/13	5	5.28	0.20	10.4	0.90	5.79	0.00	0.00	0.0117	33.6	0.067	15.0	0.08	4.75	29.08	30.57	165.58
12/14	6	4.66	0.20	10.5	0.63	3.64	0.00	0.00	0.0129	37.1	0.074	16.6	0.09	2.94	32.01	16.96	182.54
12/15	7	5.05	0.10	10.5	0.42	2.61	0.00	0.00	0.0138	39.7	0.079	17.7	0.11	2.12	34.13	13.18	195.72
12/16	8	4.99	0.15	10.4	0.32	2.23	0.00	0.00	0.0144	41.4	0.083	18.6	0.12	1.60	35.73	11.13	206.85
12/17	9	5.06	0.20	10.4	0.27	2.39	0.00	0.00	0.0149	42.8	0.088	19.7	0.13	1.37	37.10	12.09	218.95
12/18	10	4.36	0.20	10.3	0.25	2.41	0.00	0.00	0.0154	44.3	0.092	20.6	0.14	1.09	38.19	10.51	229.45
12/19	11	5.25	0.15	10.5	0.21	1.94	0.00	0.01	0.0158	45.4	0.097	21.7	0.15	1.10	39.29	10.19	239.64
12/20	12	5.14	0.15	10.3	0.17	1.53	0.00	0.00	0.0162	46.6	0.100	22.4	0.17	0.87	40.16	7.81	247.45
12/21	13	4.79	0.15	10.2	0.15	1.59	0.00	0.00	0.0165	47.4	0.103	23.1	0.18	0.72	40.88	7.62	255.07
12/22	14	4.43	0.20	10.1	0.13	1.44	0.00	0.00	0.0167	48.0	0.105	23.5	0.20	0.58	41.46	6.38	261.45
12/23	15	4.76	0.20	10.4	0.13	1.33	0.00	0.00	0.0170	48.9	0.108	24.2	0.20	0.62	42.08	6.33	267.78
12/24	16	6.09	0.15	10.6	0.10	1.08	0.00	0.00	0.0172	49.4	0.111	24.9	0.21	0.61	42.69	6.58	274.35
12/25	17	3.94	0.10	10.5	0.09	0.94	0.00	0.00	0.0173	49.7	0.112	25.1	0.24	0.35	43.04	3.70	278.06
12/26	18	6.00	0.15	10.5	0.10	0.93	0.00	0.00	0.0176	50.6	0.114	25.6	0.25	0.60	43.64	5.58	283.64
12/27	19	4.16	0.15	10.4	0.10	1.10	0.00	0.00	0.0177	50.9	0.116	26.0	0.27	0.42	44.06	4.58	288.21
12/28	20	5.44	0.15	10.3	0.10	1.29	0.00	0.01	0.0180	51.7	0.119	26.7	0.28	0.54	44.60	7.02	295.23
12/29	21	5.69	0.15	10.6	0.07	1.00	0.00	0.00	0.0181	52.0	0.121	27.1	0.29	0.40	45.00	5.64	300.87
12/30	22	4.69	0.15	10.7	0.08	1.06	0.00	0.00	0.0183	52.6	0.123	27.6	0.31	0.38	45.37	4.97	305.84
12/31	23	4.40	0.15	10.3	0.07	1.09	0.00	0.00	0.0184	52.9	0.125	28.0	0.33	0.31	45.68	4.80	310.64
1/1	24	4.94	0.15	10.5	0.07	0.96	0.00	0.01	0.0185	53.2	0.127	28.5	0.34	0.35	46.03	4.74	315.38
1/2	25	4.69	0.15	10.5	0.07	1.16	0.00	0.00	0.0187	53.7	0.129	28.9	0.36	0.33	46.36	5.39	320.77
1/3	26	6.17	0.15	10.4	0.07	1.00	0.00	0.00	0.0188	54.0	0.132	29.6	0.37	0.43	46.79	6.17	326.94
1/4	27	4.53	0.15	10.8	0.06	0.91	0.00	0.00	0.0190	54.6	0.133	29.8	0.38	0.27	47.06	4.12	331.06
1/5	28	4.97	0.20	10.6	0.05	0.85	0.00	0.01	0.0191	54.9	0.135	30.3	0.39	0.25	47.31	4.22	335.29
1/6	29	4.97	0.20	10.5	0.05	0.77	0.00	0.00	0.0192	55.2	0.137	30.7	0.40	0.25	47.56	3.78	339.06
1/7	30	5.20	0.15	10.7	0.04	0.66	0.00	0.01	0.0192	55.2	0.138	30.9	0.41	0.21	47.77	3.43	342.49
1/8	31	5.00	0.10	10.6	0.05	0.61	0.00	0.00	0.0193	55.5	0.139	31.2	0.43	0.25	48.02	3.00	345.49
1/9	32	4.54	0.15	10.6	0.05	0.67	0.00	0.00	0.0194	55.7	0.140	31.4	0.45	0.23	48.24	3.04	348.54
1/10	33	4.21	0.15	10.5	0.04	0.76	0.00	0.00	0.0195	56.0	0.142	31.8	0.47	0.17	48.41	3.20	351.73
1/11	34	5.88	0.15	10.6	0.04	0.71	0.00	0.00	0.0196	56.3	0.143	32.1	0.48	0.24	48.65	4.17	355.91
1/12	35	4.70	0.15	10.4	0.04	0.67	0.00	0.00	0.0197	56.6	0.145	32.5	0.50	0.19	48.83	3.15	359.06
1/13	36	4.92	0.15	10.5	0.04	0.70	0.00	0.00	0.0198	56.9	0.146	32.7	0.51	0.20	49.03	3.44	362.50
1/14	37	4.63	0.10	10.4	0.04	0.68	0.00	0.00	0.0198	56.9	0.147	33.0	0.53	0.19	49.22	3.15	365.65
1/15	38	6.10	0.15	10.5	0.03	0.55	0.00	0.00	0.0199	57.2	0.149	33.4	0.54	0.18	49.40	3.36	369.01
1/16	39	4.91	0.10	10.3	0.04	0.62	0.00	0.01	0.0200	57.5	0.150	33.6	0.56	0.20	49.60	3.04	372.05
1/17	40	4.28	0.10	10.2	0.04	0.64	0.00	0.00	0.0200	57.5	0.151	33.9	0.59	0.17	49.77	2.69	374.74
1/18	41	5.45	0.10	10.3	0.03	0.47	0.00	0.00	0.0201	57.8	0.152	34.1	0.61	0.16	49.93	2.56	377.30
1/19	42	4.72	0.05	10.2	0.02	0.42	0.00	0.01	0.0202	58.0	0.153	34.3	0.64	0.09	50.02	1.98	379.28
1/20	43	5.09	0.05	10.2	0.02	0.34	0.00	0.00	0.0202	58.0	0.153	34.3	0.67	0.10	50.13	1.68	380.96
1/21	44	4.24	0.05	10.2	0.01	0.29	0.00	0.00	0.0202	58.0	0.154	34.5	0.70	0.04	50.17	1.23	382.19
1/22	45	5.58	0.05	10.3	0.01	0.21	0.00	0.00	0.0202	58.0	0.154	34.5	0.72	0.06	50.22	1.17	383.36
1/23	46	4.78	0.00	10.2	0.01	0.17	0.00	0.00	0.0203	58.3	0.155	34.8	0.76	0.05	50.27	0.81	384.18
1/24	47	5.03	0.05	10.3	0.01	0.14	0.00	0.00	0.0203	58.3	0.155	34.8	0.79	0.05	50.32	0.70	384.88
1/25	48	5.05	0.05	10.2	0.00	0.14	0.00	0.00	0.0203	58.3	0.155	34.8	0.81	0.00	50.32	0.71	385.59
1/26	49	4.85	0.05	10.1	0.01	0.14	0.00	0.00	0.0203	58.3	0.156	35.0	0.84	0.05	50.37	0.68	386.27
1/27	50	4.73	0.05	10.2	0.01	0.14	0.00	0.00	0.0203	58.3	0.156	35.0	0.87	0.05	50.42	0.66	386.93
1/28	51	4.50	0.05	10.4	0.01	0.14	0.00	0.00	0.0203	58.3	0.156	35.0	0.90	0.05	50.46	0.63	387.56
1/29	52	4.98	0.05	10.4	0.01	0.13	0.00	0.00	0.0203	58.3	0.156	35.0	0.93	0.05	50.51	0.65	388.21

3439 P-14

Ore Charge				NaCN added	122.02	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	2.05	lb/ton ore				Au	Ag
72.40	kg	0.072	mt								
159.61	lb	0.0798	ton		12.0	lbs Cement/ton of ore				Avg. Head	0.040	0.45
										Head Screen	0.0350	0.44
										Tail Screen	0.0130	0.263
										Tail Assay		

Daily Column Leach Test Data,

Sample I.D. HM-MG (Comp)

Test Conditions,

Feed Size, 80% minus 1/2"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
1/30	53	5.70	0.05	10.3	0.01	0.11	0.00	0.00	0.0204	58.6	0.157	35.2	0.96	0.06	50.57	0.63	388.83
1/31	54	4.58	0.00	10.2	0.01	0.10	0.00	0.00	0.0204	58.6	0.157	35.2	0.99	0.05	50.62	0.46	389.29
2/1	55	4.97	0.00	9.8	0.01	0.11	0.00	0.00	0.0204	58.6	0.157	35.2	1.03	0.05	50.67	0.55	389.84
2/2	56	4.59	0.00	10.4	0.01	0.09	0.00	0.00	0.0204	58.6	0.157	35.2	1.06	0.05	50.71	0.41	390.25
2/3	57	4.06	0.05	10.3	0.01	0.10	0.00	0.00	0.0204	58.6	0.157	35.2	1.09	0.04	50.75	0.41	390.66
2/4	58	2.98	0.05	10.1	0.01	0.08	0.00	0.00	0.0205	58.9	0.157	35.2	1.10	0.03	50.78	0.24	390.89
2/5	59	4.01	0.05	10.4	0.01	0.14	0.00	0.00	0.0205	58.9	0.158	35.4	1.13	0.04	50.82	0.56	391.46
2/6	60	4.68	0.05	10.2	0.01	0.22	0.00	0.00	0.0205	58.9	0.158	35.4	1.16	0.05	50.87	1.03	392.49
2/7	61	4.60	0.10	10.4	0.01	0.22	0.00	0.00	0.0205	58.9	0.159	35.7	1.18	0.05	50.91	1.01	393.50
2/8	62	5.26	0.05	10.5	0.01	0.18	0.00	0.00	0.0205	58.9	0.159	35.7	1.21	0.05	50.97	0.95	394.44
2/9	63	5.62	0.00	10.3	0.01	0.16	0.00	0.00	0.0206	59.2	0.159	35.7	1.24	0.06	51.02	0.90	395.34
2/10	64	5.19	0.05	10.5	0.01	0.10	0.00	0.00	0.0206	59.2	0.159	35.7	1.27	0.05	51.08	0.52	395.86
2/11	65	4.00	0.00	10.4	0.01	0.10	0.00	0.00	0.0206	59.2	0.160	35.9	1.30	0.04	51.12	0.40	396.26
2/12	66	5.65	0.00	10.3	0.01	0.08	0.00	0.00	0.0206	59.2	0.160	35.9	1.34	0.06	51.17	0.45	396.71
2/13	67	4.86	0.00	10.3	0.01	0.09	0.00	0.00	0.0206	59.2	0.160	35.9	1.38	0.05	51.22	0.44	397.15
2/14	68	4.57	0.00	10.2	0.01	0.10	0.00	0.00	0.0207	59.5	0.160	35.9	1.41	0.05	51.27	0.46	397.61
2/15	69	5.63	0.00	10.2	0.01	0.08	0.00	0.00	0.0207	59.5	0.160	35.9	1.45	0.06	51.32	0.45	398.06
2/16	70	4.40	0.00	10.3	0.01	0.07	0.00	0.00	0.0207	59.5	0.160	35.9	1.48	0.04	51.37	0.31	398.37
2/17	71	4.93	0.00	10.3	0.01	0.05	0.00	0.00	0.0207	59.5	0.161	36.1	1.52	0.05	51.42	0.25	398.61
2/18	72	5.88	0.00	10.4	0.00	0.05	0.00	0.00	0.0207	59.5	0.161	36.1	1.55	0.00	51.42	0.29	398.91
2/19	73	5.01	0.05	10.4	0.01	0.06	0.00	0.00	0.0207	59.5	0.161	36.1	1.58	0.05	51.47	0.30	399.21
2/20	74	4.55	0.05	10.0	0.01	0.08	0.00	0.00	0.0208	59.8	0.161	36.1	1.61	0.05	51.51	0.36	399.57
2/21	75	5.37	0.00	10.2	0.01	0.07	0.00	0.00	0.0208	59.8	0.161	36.1	1.65	0.05	51.57	0.38	399.95
2/22	76	4.62	0.05	10.3	0.01	0.03	0.00	0.00	0.0208	59.8	0.161	36.1	1.67	0.05	51.61	0.14	400.09
2/23	77		Rest Cycle														
3/8	90																
3/9	91	4.25	0.00	9.2	0.02	0.34	0.00	0.00	0.0208	59.8	0.162	36.3	1.71	0.09	51.70	1.45	401.53
3/10	92	5.57	0.10	10.5	0.01	0.37	0.00	0.00	0.0208	59.8	0.163	36.5	1.73	0.06	51.75	2.06	403.59
3/11	93	4.82	0.20	10.5	0.02	0.35	0.00	0.00	0.0209	60.1	0.163	36.5	1.74	0.10	51.85	1.69	405.28
3/12	94	4.99	0.20	10.4	0.02	0.39	0.00	0.00	0.0209	60.1	0.164	36.8	1.75	0.10	51.95	1.95	407.23
3/13	95	4.82	0.15	10.5	0.02	0.36	0.00	0.00	0.0210	60.3	0.165	37.0	1.76	0.10	52.04	1.74	408.96
3/14	96	5.25	0.15	10.4	0.02	0.35	0.00	0.00	0.0210	60.3	0.165	37.0	1.77	0.11	52.15	1.84	410.80
3/15	97	3.60	0.15	10.3	0.02	0.39	0.00	0.00	0.0210	60.3	0.166	37.2	1.80	0.07	52.22	1.40	412.20
3/16	98		Rest Cycle														
3/29	111																
3/30	112	5.58	0.00	9.5	0.08	1.42	0.00	0.00	0.0212	60.9	0.169	37.9	1.83	0.45	52.67	7.92	420.13
3/31	113	5.22	0.15	10.3	0.05	1.07	0.00	0.00	0.0213	61.2	0.172	38.6	1.84	0.26	52.93	5.59	425.71
4/1	114	5.15	0.15	10.1	0.02	0.32	0.00	0.00	0.0214	61.5	0.172	38.6	1.86	0.10	53.03	1.65	427.36
4/2	115	4.22	0.10	10.0	0.02	0.36	0.00	0.00	0.0214	61.5	0.173	38.8	1.88	0.08	53.12	1.52	428.88
4/3	116	5.47	0.15	10.3	0.02	0.31	0.00	0.00	0.0214	61.5	0.173	38.8	1.89	0.11	53.23	1.70	430.57
4/4	117	5.09	0.15	10.2	0.01	0.29	0.00	0.00	0.0215	61.8	0.174	39.0	1.91	0.05	53.28	1.48	432.05
4/5	118	4.38	0.10	10.2	0.01	0.31	0.00	0.00	0.0215	61.8	0.175	39.2	1.93	0.04	53.32	1.36	433.41
4/6	119		Rest Cycle														
4/19	132																
4/20	133	5.27	0.00	9.2	0.03	0.77	0.00	0.01	0.0215	61.8	0.176	39.5	1.97	0.16	53.48	4.06	437.47
4/21	134	4.33	0.15	10.3	0.02	0.48	0.00	0.00	0.0216	62.1	0.177	39.7	1.99	0.09	53.57	2.03	439.49
4/22	135	5.08	0.20	10.5	0.02	0.33	0.00	0.00	0.0216	62.1	0.178	39.9	1.99	0.10	53.67	1.68	441.17
4/23	136	5.22	0.15	10.2	0.01	0.26	0.00	0.00	0.0216	62.1	0.178	39.9	2.01	0.05	53.72	1.36	442.53
4/24	137	5.09	0.15	9.9	0.01	0.21	0.00	0.00	0.0217	62.4	0.179	40.1	2.02	0.05	53.77	1.07	443.60
4/25	138	3.67	0.15	10.0	0.02	0.29	0.00	0.00	0.0217	62.4	0.179	40.1	2.04	0.07	53.84	1.06	444.66
4/26	139	2.00	0.15	9.8	0.00	0.34	0.00	0.00	0.0217	62.4	0.179	40.1	2.04	0.00	53.84	0.68	445.34
4/27	140		Rest Cycle														

3439 P-14

Ore Charge				NaCN added	122.02	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	2.05	lb/ton ore				Au	Ag
72.40	kg	0.072	mt								
159.61	lb	0.0798	ton		12.0	lbs Cement/ton of ore				Avg. Head	0.040	0.45
										Head Screen	0.0350	0.44
										Tail Screen	0.0130	0.263
										Tail Assay		

Daily Column Leach Test Data,

Sample I.D. HM-MG (Comp)

Test Conditions,

Feed Size, 80% minus 1/2"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
5/10	153																
5/11	154	4.44	0.00	9.9	0.05	1.03	0.00	0.00	0.0218	62.6	0.181	40.6	2.07	0.22	54.07	4.57	449.91
			Rinse Cycle														
5/12	155	4.33	0.15	10.7	0.00	0.52	0.00	0.00	0.0218	62.6	0.182	40.8	2.07	0.00	54.07	2.25	452.17
5/13	156	4.77	0.00	10.6	0.00	0.19	0.00	0.00	0.0218	62.6	0.183	41.0	2.07	0.00	54.07	0.91	453.07
5/14	157	5.35	0.00	10.7	0.00	0.09	0.00	0.02	0.0218	62.6	0.183	41.0	2.07	0.00	54.07	0.48	453.55
5/15	158	4.16	0.00	10.9	0.00	0.06	0.00	0.03	0.0218	62.6	0.183	41.0	2.05	0.00	54.07	0.25	453.80
5/16	159	5.54	0.00	10.8	0.00	0.02	0.00	0.02	0.0218	62.6	0.183	41.0	2.05	0.00	54.07	0.11	453.91
			Drain Down														

Extracted, oz/ton of ore	**0.0218**	**62.6**	**0.183**	**41.0**
Estimated Tail , oz/ton of ore	**0.0130**		**0.263**	
Calculated Head, oz/ton of ore	**0.0348**		**0.446**	

3439 P-15

Ore Charge							oz/ton ore	
			NaCN added	123.40 g	NaCN	0.50 lb/ton solution	Au	Ag
71.73 kg	0.072 mt		NaCN Consumption	1.52 lb/ton ore				
158.13 lb	0.0791 ton			12.0 lbs Cement/ton of ore		Avg. Head	0.172	1.13
						Head Screen	0.1531	1.09
						Tail Screen	0.0655	0.448
						Tail Assay		

Daily Column Leach Test Data,
Sample I.D. HM-010 (HG)
Test Conditions,

Feed Size, 80% minus 1/2"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
12/9	1												0.00	0.00	0.00	0.00	0.00
12/10	2	1.50	0.00	10.3	1.38	2.21	0.00	0.00	0.0008	0.5	0.001	0.1	0.04	2.07	2.07	3.32	3.32
12/11	3	4.32	0.05	11.5	2.88	31.80	0.01	0.01	0.0059	3.8	0.057	5.7	0.07	12.44	14.51	137.38	140.69
12/12	4	4.54	0.10	11.2	5.82	66.50	0.00	0.00	0.0166	10.7	0.180	18.1	0.09	26.37	40.88	301.86	442.55
12/13	5	5.38	0.20	11.2	4.56	28.40	0.00	0.01	0.0266	17.1	0.242	24.3	0.09	24.53	65.42	152.79	595.34
12/14	6	4.89	0.15	11.2	2.73	12.20	0.00	0.01	0.0320	20.6	0.266	26.7	0.11	13.35	78.77	59.61	654.95
12/15	7	4.79	0.10	11.2	1.98	7.35	0.00	0.01	0.0359	23.1	0.281	28.2	0.13	9.48	88.25	35.16	690.10
12/16	8	5.17	0.15	11.2	1.57	6.15	0.00	0.01	0.0392	25.2	0.294	29.5	0.15	8.12	96.37	31.74	721.85
12/17	9	5.64	0.20	11.2	1.39	6.15	0.01	0.01	0.0424	27.2	0.308	30.9	0.15	7.84	104.21	34.64	756.48
12/18	10	4.73	0.25	11.1	1.25	5.85	0.00	0.02	0.0448	28.8	0.319	32.0	0.15	5.86	110.07	27.62	784.10
12/19	11	5.48	0.20	11.2	1.13	4.98	0.00	0.04	0.0473	30.4	0.330	33.1	0.16	6.19	116.26	27.19	811.29
12/20	12	5.07	0.20	11.1	0.91	4.04	0.00	0.02	0.0492	31.6	0.338	33.9	0.17	4.61	120.87	20.28	831.57
12/21	13	4.72	0.20	11.1	0.84	3.84	0.00	0.02	0.0508	32.6	0.345	34.6	0.17	3.96	124.84	18.02	849.59
12/22	14	5.13	0.20	10.8	0.75	3.42	0.00	0.01	0.0523	33.6	0.353	35.4	0.18	3.85	128.69	17.44	867.04
12/23	15	4.62	0.20	11.2	0.75	3.14	0.00	0.02	0.0537	34.5	0.358	35.9	0.19	3.47	132.15	14.46	881.49
12/24	16	5.22	0.20	11.3	0.66	2.96	0.00	0.03	0.0551	35.4	0.365	36.6	0.20	3.45	135.60	15.35	896.84
12/25	17	5.04	0.20	11.3	0.59	2.64	0.00	0.02	0.0563	36.2	0.370	37.1	0.21	2.97	138.57	13.15	909.99
12/26	18	5.12	0.20	11.3	0.57	2.47	0.00	0.03	0.0575	36.9	0.375	37.6	0.21	2.92	141.49	12.54	922.54
12/27	19	5.23	0.20	11.4	0.42	1.92	0.00	0.03	0.0584	37.5	0.379	38.0	0.22	2.20	143.69	9.89	932.43
12/28	20	4.67	0.20	11.1	0.56	2.61	0.00	0.01	0.0595	38.2	0.384	38.5	0.23	2.62	146.30	12.04	944.46
12/29	21	4.84	0.20	11.4	0.61	2.98	0.00	0.05	0.0607	39.0	0.390	39.1	0.24	2.95	149.25	14.37	958.83
12/30	22	5.10	0.15	11.6	0.48	2.46	0.00	0.05	0.0617	39.6	0.395	39.6	0.25	2.45	151.70	12.29	971.13
12/31	23	4.89	0.20	11.2	0.43	2.23	0.00	0.06	0.0625	40.1	0.399	40.0	0.26	2.10	153.80	10.65	981.78
1/1	24	4.13	0.20	11.4	0.41	2.10	0.00	0.09	0.0632	40.6	0.403	40.4	0.27	1.69	155.50	8.37	990.14
1/2	25	5.83	0.20	11.4	0.41	2.20	0.00	0.08	0.0642	41.2	0.408	40.9	0.28	2.39	157.89	12.37	1002.51
1/3	26	5.37	0.25	11.2	0.47	2.37	0.00	0.08	0.0652	41.9	0.413	41.4	0.27	2.52	160.41	12.32	1014.83
1/4	27	4.42	0.20	11.5	0.41	2.17	0.00	0.07	0.0660	42.4	0.416	41.7	0.29	1.81	162.22	9.18	1024.01
1/5	28	5.01	0.20	11.4	0.37	1.88	0.00	0.08	0.0667	42.8	0.420	42.1	0.29	1.85	164.08	9.06	1033.07
1/6	29	5.06	0.20	11.4	0.32	1.54	0.00	0.07	0.0674	43.3	0.423	42.4	0.30	1.62	165.70	7.38	1040.46
1/7	30	4.84	0.15	11.4	0.31	1.51	0.00	0.07	0.0680	43.7	0.426	42.7	0.32	1.50	167.20	6.95	1047.41
1/8	31	5.21	0.15	11.5	0.30	1.45	0.00	0.08	0.0686	44.1	0.429	43.0	0.33	1.56	168.76	7.20	1054.61
1/9	32	4.77	0.20	11.5	0.30	1.50	0.00	0.07	0.0692	44.4	0.432	43.3	0.34	1.43	170.19	6.75	1061.35
1/10	33	4.60	0.20	11.3	0.30	1.60	0.00	0.08	0.0698	44.8	0.434	43.5	0.35	1.38	171.57	7.00	1068.36
1/11	34	5.36	0.20	11.3	0.28	1.53	0.00	0.10	0.0704	45.2	0.438	43.9	0.36	1.50	173.07	7.79	1076.15
1/12	35	4.36	0.15	11.3	0.31	1.61	0.00	0.10	0.0709	45.5	0.440	44.1	0.37	1.35	174.42	6.51	1082.66
1/13	36	5.44	0.15	11.4	0.30	1.61	0.00	0.12	0.0716	46.0	0.444	44.5	0.39	1.63	176.06	8.25	1090.91
1/14	37	4.64	0.20	11.3	0.28	1.59	0.00	0.12	0.0721	46.3	0.446	44.7	0.40	1.30	177.35	6.77	1097.67
1/15	38	5.37	0.20	11.3	0.26	1.53	0.00	0.16	0.0727	46.7	0.449	45.0	0.40	1.40	178.75	7.60	1105.28
1/16	39	5.16	0.20	11.1	0.26	1.50	0.00	0.17	0.0732	47.0	0.452	45.3	0.41	1.34	180.09	6.92	1112.20
1/17	40	4.45	0.20	11.2	0.27	1.57	0.00	0.13	0.0737	47.3	0.455	45.6	0.42	1.20	181.29	6.12	1118.32
1/18	41	5.00	0.20	11.3	0.24	1.41	0.00	0.15	0.0742	47.7	0.457	45.8	0.43	1.20	182.49	6.39	1124.71
1/19	42	4.22	0.15	11.3	0.23	1.30	0.00	0.14	0.0746	47.9	0.459	46.0	0.44	0.97	183.46	4.72	1129.43
1/20	43	5.59	0.20	11.3	0.23	1.24	0.00	0.19	0.0751	48.2	0.462	46.3	0.45	1.29	184.75	6.22	1135.65
1/21	44	5.23	0.10	11.3	0.20	1.10	0.00	0.20	0.0755	48.5	0.464	46.5	0.47	1.05	185.80	4.78	1140.43
1/22	45	5.05	0.20	11.3	0.21	1.15	0.00	0.21	0.0760	48.8	0.466	46.7	0.48	1.06	186.86	4.79	1145.22
1/23	46	5.16	0.20	11.4	0.20	1.18	0.00	0.22	0.0764	49.1	0.468	46.9	0.48	1.03	187.89	5.02	1150.24
1/24	47	4.58	0.25	11.4	0.23	1.40	0.00	0.18	0.0768	49.3	0.470	47.1	0.49	1.05	188.94	5.29	1155.53
1/25	48	4.82	0.20	11.3	0.21	1.20	0.00	0.20	0.0772	49.6	0.472	47.3	0.50	1.01	189.95	4.87	1160.39
1/26	49	5.13	0.20	11.2	0.18	1.08	0.00	0.24	0.0776	49.8	0.474	47.5	0.50	0.92	190.88	4.52	1164.91
1/27	50	4.74	0.15	11.2	0.17	1.01	0.00	0.24	0.0779	50.0	0.475	47.6	0.52	0.81	191.68	3.56	1168.48
1/28	51	5.26	0.10	11.4	0.16	1.11	0.00	0.28	0.0783	50.3	0.477	47.8	0.54	0.84	192.52	4.61	1173.09
1/29	52	4.98	0.10	11.3	0.13	0.99	0.00	0.28	0.0785	50.4	0.478	47.9	0.56	0.65	193.17	3.50	1176.59

3439 P-15

Ore Charge				NaCN added	123.40	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	1.52	lb/ton ore				Au	Ag
71.73	kg	0.072	mt								
158.13	lb	0.0791	ton		12.0	lbs Cement/ton of ore					
									Avg. Head	0.172	1.13
									Head Screen	0.1531	1.09
									Tail Screen	0.0655	0.448
									Tail Assay		

Daily Column Leach Test Data,

Sample I.D. HM-010 (HG)

Test Conditions,

Feed Size, 80% minus 1/2"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
1/30	53	5.06	0.10	11.3	0.12	0.93	0.00	0.25	0.0788	50.6	0.480	48.1	0.58	0.61	193.78	3.28	1179.87
1/31	54	4.73	0.05	11.1	0.12	0.89	0.00	0.23	0.0790	50.7	0.481	48.2	0.61	0.57	194.35	2.93	1182.80
2/1	55	4.99	0.05	10.7	0.11	0.80	0.00	0.24	0.0792	50.9	0.482	48.3	0.64	0.55	194.90	2.82	1185.62
2/2	56	4.18	0.05	11.3	0.11	0.84	0.00	0.17	0.0794	51.0	0.483	48.4	0.67	0.46	195.36	2.29	1187.91
2/3	57	5.65	0.05	11.4	0.10	0.78	0.00	0.24	0.0797	51.2	0.484	48.5	0.70	0.57	195.92	3.54	1191.45
2/4	58	5.00	0.10	11.3	0.09	0.68	0.00	0.20	0.0798	51.3	0.485	48.6	0.72	0.45	196.37	2.18	1193.63
2/5	59	4.91	0.10	11.3	0.10	0.74	0.00	0.19	0.0800	51.4	0.486	48.7	0.74	0.49	196.86	2.61	1196.24
2/6	60	5.03	0.10	11.2	0.10	0.81	0.00	0.27	0.0803	51.6	0.488	48.9	0.77	0.50	197.36	3.11	1199.35
2/7	61	4.53	0.10	11.3	0.10	0.80	0.00	0.22	0.0804	51.6	0.489	49.0	0.79	0.45	197.82	2.25	1201.59
2/8	62	5.12	0.10	11.4	0.09	0.71	0.00	0.26	0.0806	51.8	0.490	49.1	0.81	0.46	198.28	2.51	1204.11
2/9	63	4.94	0.10	11.2	0.09	0.74	0.00	0.28	0.0808	51.9	0.491	49.2	0.83	0.44	198.72	2.33	1206.44
2/10	64	5.12	0.10	11.4	0.08	0.65	0.00	0.30	0.0810	52.0	0.491	49.2	0.85	0.41	199.13	1.90	1208.34
2/11	65	4.93	0.05	11.4	0.08	0.64	0.00	0.22	0.0811	52.1	0.492	49.3	0.88	0.39	199.53	1.63	1209.96
2/12	66	5.03	0.05	11.2	0.08	0.72	0.00	0.26	0.0813	52.2	0.493	49.4	0.91	0.40	199.93	2.50	1212.46
2/13	67	4.98	0.10	11.1	0.09	0.76	0.00	0.26	0.0815	52.3	0.494	49.5	0.93	0.45	200.38	2.46	1214.92
2/14	68	4.62	0.10	11.1	0.10	0.85	0.00	0.25	0.0817	52.5	0.495	49.6	0.96	0.46	200.84	2.60	1217.52
2/15	69	4.99	0.10	11.2	0.09	0.81	0.00	0.31	0.0818	52.5	0.496	49.7	0.98	0.45	201.29	2.77	1220.29
2/16	70	4.10	0.10	11.1	0.10	0.78	0.00	0.23	0.0820	52.7	0.497	49.8	1.00	0.41	201.70	1.62	1221.90
2/17	71	4.98	0.05	11.1	0.09	0.76	0.00	0.24	0.0822	52.8	0.498	49.9	1.03	0.45	202.15	2.61	1224.52
2/18	72	5.05	0.15	11.1	0.08	0.73	0.00	0.28	0.0824	52.9	0.499	50.1	1.04	0.40	202.55	2.46	1226.98
2/19	73	5.80	0.10	11.1	0.07	0.66	0.00	0.30	0.0825	53.0	0.500	50.2	1.06	0.41	202.96	2.40	1229.38
2/20	74	4.66	0.10	11.0	0.09	0.79	0.00	0.29	0.0827	53.1	0.501	50.3	1.09	0.42	203.38	2.15	1231.53
2/21	75	5.20	0.10	11.0	0.08	0.82	0.00	0.35	0.0829	53.2	0.502	50.4	1.11	0.42	203.79	2.79	1234.31
2/22	76	4.84	0.10	11.1	0.08	0.82	0.00	0.34	0.0830	53.3	0.503	50.5	1.13	0.39	204.18	2.18	1236.50
2/23	77		Rest Cycle														
3/8	90																
3/9	91	4.39	0.05	10.0	0.51	3.11	0.00	0.46	0.0839	53.9	0.508	51.0	1.16	2.24	206.42	13.65	1250.15
3/10	92	4.93	0.10	11.1	0.24	1.99	0.00	0.41	0.0844	54.2	0.511	51.3	1.18	1.18	207.60	7.46	1257.62
3/11	93	5.07	0.15	11.3	0.10	1.05	0.00	0.44	0.0846	54.3	0.513	51.5	1.20	0.51	208.11	3.23	1260.85
3/12	94	4.93	0.15	11.2	0.10	1.00	0.00	0.50	0.0848	54.5	0.514	51.6	1.21	0.49	208.60	2.69	1263.53
3/13	95	5.01	0.15	11.2	0.10	1.04	0.00	0.52	0.0850	54.6	0.515	51.7	1.23	0.50	209.10	2.66	1266.19
3/14	96	5.05	0.15	11.0	0.10	1.12	0.00	0.60	0.0852	54.7	0.516	51.8	1.24	0.51	209.61	3.00	1269.20
3/15	97	4.52	0.15	11.2	0.11	1.14	0.00	0.53	0.0854	54.8	0.517	51.9	1.26	0.50	210.10	2.09	1271.29
3/16	98		Rest Cycle														
3/29	111																
3/30	112	4.83	0.00	10.5	0.33	2.57	0.00	0.23	0.0861	55.3	0.522	52.4	1.29	1.59	211.70	12.41	1283.70
3/31	113	0.80	0.00	9.6	0.34	3.01	0.00	0.15	0.0862	55.4	0.523	52.5	1.31	0.27	211.97	1.93	1285.63
4/1	114	6.20	0.10	10.9	0.16	1.55	0.00	0.00	0.0866	55.6	0.526	52.8	1.33	0.99	212.96	8.85	1294.48
4/2	115	4.72	0.15	10.8	0.11	1.01	0.00	0.00	0.0868	55.7	0.528	53.0	1.34	0.52	213.48	4.77	1299.25
4/3	116	5.17	0.20	10.9	0.09	0.66	0.00	0.00	0.0870	55.9	0.530	53.2	1.35	0.47	213.95	3.41	1302.66
4/4	117	4.83	0.15	10.8	0.09	0.52	0.00	0.00	0.0872	56.0	0.531	53.3	1.36	0.43	214.38	2.51	1305.17
4/5	118	4.00	0.15	10.8	0.10	0.54	0.00	0.00	0.0873	56.1	0.532	53.4	1.38	0.40	214.78	2.16	1307.33
4/6	119		Rest Cycle														
4/19	132																
4/20	133	5.36	0.00	9.6	0.18	1.18	0.00	0.01	0.0877	56.3	0.534	53.6	1.42	0.96	215.75	6.32	1313.66
4/21	134	4.48	0.10	11.1	0.12	0.89	0.00	0.00	0.0879	56.5	0.536	53.8	1.44	0.54	216.28	3.94	1317.59
4/22	135	5.32	0.20	11.2	0.09	0.61	0.00	0.00	0.0881	56.6	0.537	53.9	1.45	0.48	216.76	3.25	1320.84
4/23	136	4.63	0.20	10.8	0.08	0.51	0.00	0.00	0.0883	56.7	0.538	54.0	1.46	0.37	217.13	2.36	1323.20
4/24	137	4.69	0.15	10.6	0.09	0.48	0.00	0.01	0.0885	56.8	0.539	54.1	1.47	0.42	217.56	2.25	1325.45
4/25	138	4.90	0.10	10.6	0.10	0.54	0.00	0.02	0.0887	57.0	0.540	54.2	1.50	0.49	218.05	2.60	1328.04
4/26	139	5.46	0.15	10.6	0.06	0.43	0.00	0.03	0.0888	57.0	0.541	54.3	1.51	0.33	218.37	2.25	1330.29
4/27	140		Rest Cycle														

3439 P-15

Ore Charge				NaCN added	123.40	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	1.52	lb/ton ore				Au	Ag
71.73	kg	0.072	mt								
158.13	lb	0.0791	ton		12.0	lbs Cement/ton of ore					
									Avg. Head	0.172	1.13
									Head Screen	0.1531	1.09
									Tail Screen	0.0655	0.448
									Tail Assay		

Daily Column Leach Test Data,

Sample I.D. HM-010 (HG)

Test Conditions,

Feed Size, 80% minus 1/2"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
5/10	153																
5/11	154	4.39	0.00	10.4	0.43	2.13	0.00	0.03	0.0896	57.5	0.545	54.7	1.55	1.89	220.26	9.35	1339.64
			Rinse Cycle														
5/12	155	4.67	0.10	11.4	0.27	1.67	0.00	0.06	0.0901	57.9	0.548	55.0	1.55	1.26	221.52	7.80	1347.44
5/13	156	5.03	0.05	11.1	0.05	0.45	0.00	0.00	0.0902	57.9	0.549	55.1	1.55	0.25	221.77	1.96	1349.40
5/14	157	4.59	0.00	11.2	0.00	0.18	0.00	0.05	0.0902	57.9	0.549	55.1	1.55	0.00	221.77	0.83	1350.22
5/15	158	4.94	0.00	11.5	0.01	0.06	0.00	0.06	0.0902	57.9	0.549	55.1	1.53	0.05	221.82	0.30	1350.52
5/16	159	4.87	0.00	11.5	0.00	0.01	0.00	0.05	0.0902	57.9	0.549	55.1	1.52	0.00	221.82	0.05	1350.57
			Drain Down														
									0.0902	**57.9**	**0.549**	**55.1**					
									0.0655		**0.448**						
									0.1557		**0.997**						

Extracted, oz/ton of ore
Estimated Tail , oz/ton of ore
Calculated Head, oz/ton of ore

3439 P-16

Ore Charge		NaCN added	124.16	g	NaCN	0.50 lb/ton solution		oz/ton ore	
71.36 kg	0.071 mt	NaCN Consumption	1.26	lb/ton ore				Au	Ag
157.32 lb	0.0787 ton		12.0	lbs Cement/ton of ore			Avg. Head	0.018	0.68
							Head Screen	0.0173	0.69
							Tail Screen	0.0027	0.196
							Tail Assay		

Daily Column Leach Test Data,

Sample I.D. HM-011 (LG)

Test Conditions,

Feed Size, 80% minus 1/2"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
	Days	Vol.	NaCN Conc.		Au	Ag	Au	Ag	Cum.	Cum.	Cum.	Cum.	Consumed		cum.		cum.
Date	Leached	l.	g/l	pH	ppm	ppm	ppm	ppm	oz/ton	%	oz/ton	%	lb/ton	mg	mg	mg	mg
12/9	1												0.00	0.00	0.00	0.00	0.00
12/10	2	2.60	0.00	11.1	0.36	4.50	0.00	0.00	0.0004	2.5	0.005	0.8	0.04	0.94	0.94	11.70	11.70
12/11	3	4.59	0.05	11.8	1.00	45.00	0.00	0.02	0.0023	14.6	0.089	13.8	0.07	4.59	5.53	206.55	218.25
12/12	4	4.63	0.05	11.3	1.78	74.50	0.00	0.02	0.0056	35.7	0.230	35.5	0.09	8.24	13.77	344.83	563.08
12/13	5	5.21	0.25	11.3	1.03	24.60	0.00	0.03	0.0078	49.7	0.282	43.6	0.09	5.37	19.13	128.06	691.15
12/14	6	4.93	0.20	11.3	0.48	9.10	0.00	0.02	0.0088	56.1	0.301	46.5	0.10	2.37	21.50	44.71	735.86
12/15	7	4.77	0.15	11.4	0.24	4.98	0.00	0.01	0.0093	59.2	0.310	47.9	0.12	1.14	22.64	23.65	759.51
12/16	8	5.15	0.20	11.3	0.17	3.52	0.00	0.02	0.0096	61.1	0.318	49.1	0.13	0.88	23.52	18.08	777.59
12/17	9	5.37	0.20	11.3	0.13	3.40	0.00	0.02	0.0099	63.1	0.325	50.2	0.13	0.70	24.22	18.16	795.74
12/18	10	4.83	0.20	11.3	0.11	3.16	0.00	0.03	0.0101	64.3	0.331	51.2	0.14	0.53	24.75	15.16	810.90
12/19	11	5.11	0.20	11.3	0.09	2.52	0.00	0.04	0.0103	65.6	0.337	52.1	0.15	0.46	25.21	12.72	823.63
12/20	12	5.28	0.20	11.3	0.08	2.27	0.00	0.04	0.0105	66.9	0.341	52.7	0.15	0.42	25.63	11.78	835.41
12/21	13	4.76	0.20	11.2	0.07	2.22	0.00	0.04	0.0106	67.5	0.346	53.5	0.16	0.33	25.97	10.36	845.77
12/22	14	5.13	0.20	11.1	0.06	1.85	0.00	0.04	0.0107	68.2	0.349	53.9	0.17	0.31	26.27	9.29	855.06
12/23	15	4.74	0.20	11.4	0.06	1.64	0.00	0.04	0.0109	69.4	0.353	54.6	0.18	0.28	26.56	7.57	862.63
12/24	16	5.18	0.25	11.5	0.05	1.58	0.00	0.05	0.0110	70.1	0.356	55.0	0.18	0.26	26.82	7.98	870.61
12/25	17	5.04	0.25	11.5	0.04	1.37	0.00	0.05	0.0110	70.1	0.359	55.5	0.18	0.20	27.02	6.65	877.26
12/26	18	5.11	0.20	11.5	0.04	1.27	0.00	0.05	0.0111	70.7	0.361	55.8	0.19	0.20	27.22	6.23	883.49
12/27	19	5.23	0.20	11.7	0.03	1.03	0.00	0.06	0.0112	71.3	0.363	56.1	0.19	0.16	27.38	5.13	888.63
12/28	20	4.73	0.20	11.3	0.04	1.35	0.00	0.03	0.0113	72.0	0.366	56.6	0.20	0.19	27.57	6.08	894.70
12/29	21	4.96	0.20	11.6	0.05	1.58	0.00	0.09	0.0114	72.6	0.369	57.0	0.21	0.25	27.82	7.68	902.39
12/30	22	5.01	0.20	11.8	0.03	1.36	0.00	0.09	0.0114	72.6	0.371	57.3	0.22	0.15	27.97	6.35	908.74
12/31	23	4.97	0.25	11.4	0.03	1.30	0.00	0.09	0.0115	73.2	0.374	57.8	0.22	0.15	28.12	6.00	914.75
1/1	24	4.31	0.20	11.7	0.03	1.16	0.00	0.13	0.0115	73.2	0.376	58.1	0.23	0.13	28.25	4.54	919.29
1/2	25	5.77	0.15	11.5	0.03	1.18	0.00	0.11	0.0116	73.9	0.378	58.4	0.24	0.17	28.42	6.15	925.43
1/3	26	5.28	0.25	11.4	0.03	1.26	0.00	0.13	0.0117	74.5	0.381	58.9	0.24	0.16	28.58	6.09	931.52
1/4	27	4.58	0.25	11.8	0.03	1.17	0.00	0.10	0.0117	74.5	0.383	59.2	0.25	0.14	28.71	4.70	936.22
1/5	28	4.98	0.20	11.7	0.02	1.09	0.00	0.11	0.0118	75.2	0.385	59.5	0.25	0.10	28.81	4.92	941.14
1/6	29	5.07	0.15	11.7	0.02	0.84	0.00	0.11	0.0118	75.2	0.386	59.7	0.27	0.10	28.92	3.70	944.83
1/7	30	4.91	0.25	11.8	0.02	0.81	0.00	0.11	0.0119	75.8	0.388	60.0	0.27	0.10	29.01	3.42	948.25
1/8	31	5.14	0.25	11.7	0.02	0.84	0.00	0.12	0.0119	75.8	0.389	60.1	0.27	0.10	29.12	3.76	952.01
1/9	32	4.89	0.25	11.8	0.02	0.85	0.00	0.11	0.0119	75.8	0.391	60.4	0.27	0.10	29.21	3.54	955.55
1/10	33	4.75	0.20	11.7	0.02	0.80	0.00	0.13	0.0120	76.4	0.392	60.6	0.28	0.10	29.31	3.24	958.79
1/11	34	5.23	0.25	11.7	0.01	0.75	0.00	0.14	0.0120	76.4	0.393	60.7	0.28	0.05	29.36	3.26	962.05
1/12	35	4.75	0.20	11.6	0.02	0.81	0.00	0.14	0.0120	76.4	0.395	61.1	0.29	0.10	29.46	3.13	965.18
1/13	36	5.14	0.20	11.7	0.01	0.87	0.00	0.17	0.0121	77.1	0.396	61.2	0.30	0.05	29.51	3.76	968.94
1/14	37	4.84	0.15	11.6	0.02	0.83	0.00	0.19	0.0121	77.1	0.397	61.4	0.31	0.10	29.60	3.15	972.09
1/15	38	4.80	0.20	11.6	0.01	0.82	0.00	0.18	0.0121	77.1	0.399	61.7	0.32	0.05	29.65	2.97	975.06
1/16	39	4.52	0.20	11.5	0.02	0.84	0.00	0.18	0.0122	77.7	0.400	61.8	0.33	0.09	29.74	2.88	977.94
1/17	40	5.67	0.25	11.5	0.02	0.92	0.00	0.19	0.0122	77.7	0.401	62.0	0.33	0.11	29.86	4.30	982.24
1/18	41	5.17	0.20	11.5	0.01	0.78	0.00	0.20	0.0122	77.7	0.403	62.3	0.33	0.05	29.91	3.06	985.30
1/19	42	4.45	0.20	11.5	0.01	0.74	0.00	0.18	0.0122	77.7	0.404	62.4	0.34	0.04	29.95	2.27	987.57
1/20	43	5.29	0.20	11.5	0.01	0.72	0.00	0.21	0.0123	78.3	0.405	62.6	0.35	0.05	30.01	2.89	990.46
1/21	44	5.15	0.25	11.6	0.01	0.67	0.00	0.20	0.0123	78.3	0.406	62.8	0.35	0.05	30.06	2.38	992.84
1/22	45	5.04	0.20	11.5	0.01	0.66	0.00	0.22	0.0123	78.3	0.407	62.9	0.36	0.05	30.11	2.31	995.15
1/23	46	5.10	0.20	11.7	0.01	0.66	0.00	0.04	0.0123	78.3	0.408	63.1	0.37	0.05	30.16	2.24	997.39
1/24	47	4.64	0.20	11.6	0.02	0.69	0.00	0.00	0.0124	79.0	0.409	63.2	0.38	0.09	30.25	3.00	1000.39
1/25	48	4.89	0.15	11.5	0.01	0.57	0.00	0.00	0.0124	79.0	0.410	63.4	0.39	0.05	30.30	2.79	1003.18
1/26	49	5.06	0.15	11.4	0.00	0.42	0.00	0.00	0.0124	79.0	0.411	63.5	0.41	0.00	30.30	2.13	1005.30
1/27	50	3.81	0.15	11.4	0.01	0.45	0.00	0.00	0.0124	79.0	0.412	63.7	0.42	0.04	30.34	1.71	1007.02
1/28	51	6.22	0.20	11.6	0.01	0.49	0.00	0.00	0.0124	79.0	0.413	63.8	0.43	0.06	30.40	3.05	1010.07
1/29	52	4.99	0.20	11.5	0.01	0.45	0.00	0.00	0.0124	79.0	0.414	64.0	0.43	0.05	30.45	2.25	1012.31

3439 P-16

Ore Charge							oz/ton ore	
			NaCN added	124.16	g	NaCN 0.50 lb/ton solution	Au	Ag
71.36	kg	0.071 mt	NaCN Consumption	1.26	lb/ton ore			
157.32	lb	0.0787 ton		12.0	lbs Cement/ton of ore	Avg. Head	0.018	0.68
						Head Screen	0.0173	0.69
						Tail Screen	0.0027	0.196
						Tail Assay		

Daily Column Leach Test Data,
Sample I.D. HM-011 (LG)
Test Conditions,

Feed Size, 80% minus 1/2"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
1/30	53	5.05	0.15	11.4	0.01	0.41	0.00	0.00	0.0125	79.6	0.415	64.1	0.45	0.05	30.50	2.07	1014.38
1/31	54	4.84	0.15	11.3	0.01	0.38	0.00	0.00	0.0125	79.6	0.415	64.1	0.46	0.05	30.55	1.84	1016.22
2/1	55	5.01	0.15	10.5	0.01	0.36	0.00	0.00	0.0125	79.6	0.416	64.3	0.48	0.05	30.60	1.80	1018.02
2/2	56	4.50	0.15	11.5	0.01	0.38	0.00	0.00	0.0125	79.6	0.417	64.5	0.50	0.05	30.64	1.71	1019.73
2/3	57	5.39	0.15	11.6	0.01	0.31	0.00	0.00	0.0125	79.6	0.417	64.5	0.51	0.05	30.70	1.67	1021.41
2/4	58	5.02	0.10	11.5	0.01	0.26	0.00	0.00	0.0126	80.3	0.418	64.6	0.53	0.05	30.75	1.31	1022.71
2/5	59	4.95	0.15	11.6	0.01	0.26	0.00	0.00	0.0126	80.3	0.419	64.8	0.55	0.05	30.80	1.29	1024.00
2/6	60	5.08	0.15	11.3	0.01	0.32	0.00	0.01	0.0126	80.3	0.419	64.8	0.56	0.05	30.85	1.63	1025.62
2/7	61	4.75	0.10	11.5	0.01	0.32	0.00	0.00	0.0126	80.3	0.420	64.9	0.58	0.05	30.90	1.47	1027.09
2/8	62	5.07	0.10	11.6	0.01	0.25	0.00	0.00	0.0126	80.3	0.420	64.9	0.60	0.05	30.95	1.27	1028.36
2/9	63	4.96	0.10	11.3	0.01	0.27	0.00	0.00	0.0127	80.9	0.421	65.1	0.63	0.05	31.00	1.34	1029.70
2/10	64	4.94	0.10	11.5	0.01	0.24	0.00	0.00	0.0127	80.9	0.421	65.1	0.65	0.05	31.05	1.19	1030.88
2/11	65	4.97	0.05	11.6	0.01	0.21	0.00	0.00	0.0127	80.9	0.422	65.2	0.68	0.05	31.10	1.04	1031.93
2/12	66	5.06	0.05	11.3	0.01	0.20	0.00	0.00	0.0127	80.9	0.422	65.2	0.71	0.05	31.15	1.01	1032.94
2/13	67	5.01	0.15	11.2	0.01	0.23	0.00	0.00	0.0128	81.5	0.423	65.4	0.72	0.05	31.20	1.15	1034.09
2/14	68	4.70	0.15	11.2	0.01	0.27	0.00	0.00	0.0128	81.5	0.423	65.4	0.74	0.05	31.24	1.27	1035.36
2/15	69	4.94	0.10	11.4	0.01	0.26	0.00	0.00	0.0128	81.5	0.424	65.5	0.76	0.05	31.29	1.28	1036.65
2/16	70	4.28	0.10	11.2	0.01	0.21	0.00	0.00	0.0128	81.5	0.424	65.5	0.78	0.04	31.34	0.90	1037.54
2/17	71	4.87	0.15	11.2	0.00	0.18	0.00	0.00	0.0128	81.5	0.424	65.5	0.80	0.00	31.34	0.88	1038.42
2/18	72	5.24	0.05	11.3	0.00	0.18	0.00	0.00	0.0128	81.5	0.425	65.7	0.83	0.00	31.34	0.94	1039.36
2/19	73	5.71	0.10	11.3	0.00	0.14	0.00	0.00	0.0128	81.5	0.425	65.7	0.85	0.00	31.34	0.80	1040.16
2/20	74	4.74	0.15	11.1	0.00	0.21	0.00	0.00	0.0128	81.5	0.426	65.8	0.86	0.00	31.34	1.00	1041.16
2/21	75	5.18	0.15	11.2	0.00	0.22	0.00	0.00	0.0128	81.5	0.426	65.8	0.88	0.00	31.34	1.14	1042.30
2/22	76	4.86	0.10	11.3	0.00	0.16	0.00	0.00	0.0128	81.5	0.426	65.8	0.90	0.00	31.34	0.78	1043.08
2/23	77		Rest Cycle														
3/8	90																
3/9	91	4.15	0.00	10.1	0.03	1.65	0.00	0.01	0.0129	82.2	0.429	66.3	0.94	0.12	31.46	6.85	1049.92
3/10	92	5.34	0.10	11.3	0.01	1.10	0.00	0.00	0.0129	82.2	0.432	66.8	0.96	0.05	31.51	5.82	1055.75
3/11	93	5.09	0.20	11.4	0.00	0.36	0.00	0.01	0.0129	82.2	0.432	66.8	0.96	0.00	31.51	1.83	1057.58
3/12	94	4.97	0.20	11.3	0.00	0.30	0.00	0.01	0.0129	82.2	0.433	66.9	0.97	0.00	31.51	1.44	1059.02
3/13	95	5.03	0.20	11.3	0.00	0.28	0.00	0.01	0.0129	82.2	0.433	66.9	0.98	0.00	31.51	1.36	1060.38
3/14	96	5.05	0.15	11.2	0.00	0.27	0.00	0.02	0.0129	82.2	0.434	67.1	0.99	0.00	31.51	1.31	1061.69
3/15	97	4.29	0.20	11.3	0.00	0.28	0.00	0.01	0.0129	82.2	0.434	67.1	1.01	0.00	31.51	1.10	1062.79
3/16	98		Rest Cycle														
3/29	111																
3/30	112	5.00	0.00	10.8	0.02	1.20	0.00	0.02	0.0129	82.2	0.437	67.5	1.04	0.10	31.61	6.00	1068.79
3/31	113	5.24	0.10	11.1	0.00	0.77	0.00	0.02	0.0129	82.2	0.438	67.7	1.06	0.00	31.61	3.93	1072.72
4/1	114	4.91	0.20	10.9	0.00	0.32	0.00	0.02	0.0129	82.2	0.439	67.9	1.07	0.00	31.61	1.47	1074.19
4/2	115	4.78	0.20	10.8	0.00	0.34	0.00	0.02	0.0129	82.2	0.440	68.0	1.08	0.00	31.61	1.52	1075.71
4/3	116	5.05	0.20	11.1	0.00	0.28	0.00	0.02	0.0129	82.2	0.440	68.0	1.09	0.00	31.61	1.31	1077.03
4/4	117	4.95	0.15	11.0	0.00	0.24	0.00	0.02	0.0129	82.2	0.441	68.2	1.10	0.00	31.61	1.09	1078.11
4/5	118	3.88	0.15	11.0	0.00	0.26	0.00	0.02	0.0129	82.2	0.441	68.2	1.12	0.00	31.61	0.91	1079.02
4/6	119		Rest Cycle														
4/19	132																
4/20	133	5.60	0.00	9.8	0.01	0.89	0.00	0.03	0.0129	82.2	0.443	68.5	1.16	0.06	31.67	4.98	1084.00
4/21	134	4.53	0.10	11.2	0.00	0.74	0.00	0.02	0.0129	82.2	0.444	68.6	1.18	0.00	31.67	3.20	1087.20
4/22	135	5.39	0.15	11.2	0.00	0.33	0.00	0.02	0.0129	82.2	0.445	68.8	1.19	0.00	31.67	1.68	1088.88
4/23	136	4.82	0.20	10.9	0.00	0.25	0.00	0.02	0.0129	82.2	0.446	68.9	1.20	0.00	31.67	1.10	1089.98
4/24	137	5.19	0.20	10.7	0.00	0.21	0.00	0.02	0.0129	82.2	0.446	68.9	1.21	0.00	31.67	0.99	1090.97
4/25	138	4.34	0.20	10.7	0.00	0.29	0.00	0.02	0.0129	82.2	0.446	68.9	1.22	0.00	31.67	1.16	1092.13
4/26	139	4.36	0.20	10.7	0.00	0.26	0.00	0.02	0.0129	82.2	0.447	69.1	1.23	0.00	31.67	1.03	1093.16
4/27	140		Rest Cycle														

3439 P-16

Ore Charge				NaCN added	124.16	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	1.26	lb/ton ore				Au	Ag
71.36	kg	0.071	mt								
157.32	lb	0.0787	ton		12.0	lbs Cement/ton of ore					
									Avg. Head	0.018	0.68
									Head Screen	0.0173	0.69
									Tail Screen	0.0027	0.196
									Tail Assay		

Daily Column Leach Test Data,

Sample I.D. HM-011 (LG)

Test Conditions,

Feed Size, 80% minus 1/2"

			Pregnant Solution Analyses				Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
5/10	153																
5/11	154	5.43	0.00	10.3	0.01	0.84	0.00	0.04	0.0130	82.8	0.449	69.4	1.27	0.05	31.72	4.56	1097.72
			Rinse Cycle														
5/12	155	4.81	0.05	11.6	0.00	0.66	0.00	0.03	0.0130	82.8	0.450	69.6	1.27	0.00	31.72	3.17	1100.89
5/13	156	5.04	0.05	11.2	0.00	0.22	0.00	0.01	0.0130	82.8	0.450	69.6	1.27	0.00	31.72	0.96	1101.85
5/14	157	4.63	0.00	11.3	0.00	0.12	0.00	0.07	0.0130	82.8	0.451	69.7	1.27	0.00	31.72	0.56	1102.40
5/15	158	4.96	0.00	11.6	0.00	0.07	0.00	0.07	0.0130	82.8	0.451	69.7	1.26	0.00	31.72	0.35	1102.75
5/16	159	4.85	0.00	11.6	0.00	0.02	0.00	0.06	0.0130	82.8	0.451	69.7	1.26	0.00	31.72	0.10	1102.85
			Drain Down														
									0.0130	**82.8**	**0.451**	**69.7**					

Extracted, oz/ton of ore

Estimated Tail , oz/ton of ore **0.0027** **0.196**

Calculated Head, oz/ton of ore **0.0157** **0.647**

3439 P-17

Ore Charge				NaCN added	123.44	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	1.68	lb/ton ore				Au	Ag
72.16	kg	0.072	mt								
159.08	lb	0.0795	ton		12.0	lbs Cement/ton of ore			Avg. Head	0.026	0.96
									Head Screen	0.0216	0.84
									Tail Screen	0.0047	0.541
									Tail Assay		

Daily Column Leach Test Data,
Sample I.D. LM-LG (Comp)
Test Conditions,

Feed Size, 80% minus 1/2"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
12/9	1												0.00	0.00	0.00	0.00	0.00
12/10	2	2.34	0.00	10.4	1.26	13.60	0.00	0.00	0.0012	6.2	0.013	1.4	0.04	2.95	2.95	31.82	31.82
12/11	3	4.62	0.10	11.2	1.74	24.30	0.00	0.01	0.0044	22.7	0.058	6.2	0.06	8.04	10.99	112.27	144.09
12/12	4	4.68	0.15	10.7	1.04	15.70	0.00	0.00	0.0064	33.0	0.088	9.4	0.07	4.87	15.85	73.43	217.52
12/13	5	5.17	0.20	10.8	0.63	11.45	0.00	0.01	0.0077	39.7	0.112	11.9	0.08	3.26	19.11	59.20	276.71
12/14	6	4.87	0.15	10.8	0.42	7.10	0.00	0.00	0.0086	44.3	0.126	13.4	0.10	2.05	21.16	34.53	311.24
12/15	7	4.82	0.15	10.8	0.27	5.79	0.00	0.00	0.0091	46.9	0.137	14.6	0.11	1.30	22.46	27.91	339.15
12/16	8	5.15	0.15	10.7	0.22	5.43	0.00	0.00	0.0095	49.0	0.148	15.7	0.13	1.13	23.59	27.96	367.11
12/17	9	5.39	0.20	10.8	0.19	4.83	0.00	0.00	0.0099	51.0	0.159	16.9	0.13	1.02	24.62	26.03	393.14
12/18	10	4.83	0.20	10.7	0.15	7.53	0.00	0.01	0.0102	52.6	0.174	18.5	0.14	0.72	25.34	36.37	429.51
12/19	11	5.32	0.20	10.8	0.13	4.16	0.00	0.01	0.0105	54.1	0.183	19.4	0.15	0.69	26.03	22.08	451.59
12/20	12	5.07	0.15	10.6	0.12	3.58	0.00	0.01	0.0108	55.7	0.190	20.2	0.16	0.61	26.64	18.10	469.69
12/21	13	4.75	0.20	10.7	0.11	3.72	0.00	0.01	0.0110	56.7	0.197	20.9	0.17	0.52	27.16	17.62	487.31
12/22	14	5.10	0.20	10.4	0.09	3.28	0.00	0.00	0.0112	57.7	0.204	21.7	0.18	0.46	27.62	16.68	503.99
12/23	15	4.72	0.20	10.7	0.09	3.03	0.00	0.01	0.0113	58.2	0.209	22.2	0.19	0.42	28.05	14.30	518.29
12/24	16	5.16	0.15	10.8	0.07	2.67	0.00	0.01	0.0115	59.3	0.215	22.8	0.20	0.36	28.41	13.73	532.02
12/25	17	5.03	0.15	10.9	0.06	2.32	0.00	0.00	0.0116	59.8	0.220	23.4	0.21	0.30	28.71	11.62	543.64
12/26	18	5.11	0.15	10.8	0.06	2.41	0.00	0.00	0.0117	60.3	0.225	23.9	0.23	0.31	29.02	12.32	555.95
12/27	19	5.21	0.20	10.8	0.05	1.86	0.00	0.01	0.0118	60.8	0.229	24.3	0.24	0.26	29.28	9.69	565.64
12/28	20	4.73	0.20	10.6	0.07	3.30	0.00	0.07	0.0120	61.9	0.235	25.0	0.24	0.33	29.61	15.56	581.20
12/29	21	4.98	0.15	10.9	0.07	2.84	0.00	0.03	0.0121	62.4	0.240	25.5	0.26	0.35	29.96	13.79	594.99
12/30	22	4.40	0.15	10.9	0.06	2.66	0.00	0.01	0.0122	62.9	0.245	26.0	0.28	0.26	30.22	11.55	606.54
12/31	23	5.00	0.15	10.7	0.05	2.40	0.00	0.00	0.0123	63.4	0.250	26.6	0.29	0.25	30.47	11.95	618.49
1/1	24	4.34	0.25	10.8	0.05	2.25	0.00	0.03	0.0124	63.9	0.254	27.0	0.30	0.22	30.69	9.77	628.25
1/2	25	5.76	0.20	10.9	0.05	2.59	0.00	0.01	0.0125	64.4	0.260	27.6	0.30	0.29	30.98	14.77	643.02
1/3	26	5.26	0.15	10.7	0.05	1.99	0.00	0.02	0.0126	64.9	0.264	28.1	0.31	0.26	31.24	10.42	653.43
1/4	27	4.54	0.20	11.1	0.04	2.04	0.00	0.01	0.0127	65.5	0.268	28.5	0.32	0.18	31.42	9.16	662.59
1/5	28	5.00	0.20	10.9	0.04	1.89	0.00	0.02	0.0128	66.0	0.272	28.9	0.33	0.20	31.62	9.40	671.99
1/6	29	5.04	0.20	11.0	0.03	1.63	0.00	0.01	0.0128	66.0	0.275	29.2	0.34	0.15	31.77	8.11	680.10
1/7	30	4.90	0.15	11.1	0.03	1.47	0.00	0.02	0.0129	66.5	0.278	29.5	0.35	0.15	31.92	7.15	687.26
1/8	31	5.15	0.15	11.0	0.03	1.43	0.00	0.02	0.0130	67.0	0.281	29.9	0.37	0.15	32.07	7.26	694.52
1/9	32	4.85	0.20	11.0	0.03	1.55	0.00	0.01	0.0130	67.0	0.284	30.2	0.38	0.15	32.22	7.42	701.93
1/10	33	4.75	0.20	10.9	0.03	1.70	0.00	0.01	0.0131	67.5	0.287	30.5	0.39	0.14	32.36	8.02	709.96
1/11	34	5.22	0.20	10.9	0.03	1.44	0.00	0.01	0.0131	67.5	0.290	30.8	0.39	0.16	32.52	7.47	717.42
1/12	35	4.66	0.15	10.8	0.03	1.54	0.00	0.02	0.0132	68.0	0.293	31.1	0.41	0.14	32.66	7.13	724.55
1/13	36	5.23	0.15	10.9	0.03	1.45	0.00	0.02	0.0133	68.6	0.296	31.5	0.42	0.16	32.81	7.48	732.03
1/14	37	4.79	0.15	10.8	0.03	1.54	0.00	0.02	0.0133	68.6	0.299	31.8	0.44	0.14	32.96	7.27	739.31
1/15	38	5.25	0.20	10.8	0.03	1.42	0.00	0.03	0.0134	69.1	0.302	32.1	0.44	0.16	33.11	7.35	746.66
1/16	39	5.14	0.20	10.7	0.02	1.44	0.00	0.03	0.0134	69.1	0.305	32.4	0.45	0.10	33.22	7.25	753.91
1/17	40	4.60	0.15	10.8	0.02	1.57	0.00	0.02	0.0135	69.6	0.308	32.7	0.47	0.09	33.31	7.07	760.98
1/18	41	5.04	0.20	10.8	0.02	1.23	0.00	0.02	0.0135	69.6	0.310	32.9	0.48	0.10	33.41	6.10	767.07
1/19	42	4.59	0.15	10.8	0.02	1.30	0.00	0.02	0.0135	69.6	0.312	33.2	0.49	0.09	33.50	5.87	772.94
1/20	43	5.28	0.20	10.8	0.02	1.22	0.00	0.02	0.0136	70.1	0.315	33.5	0.50	0.11	33.61	6.34	779.28
1/21	44	5.15	0.20	10.9	0.02	1.09	0.00	0.02	0.0136	70.1	0.317	33.7	0.51	0.10	33.71	5.51	784.79
1/22	45	5.05	0.15	10.8	0.02	1.06	0.00	0.02	0.0137	70.6	0.319	33.9	0.52	0.10	33.81	5.25	790.04
1/23	46	5.10	0.15	10.9	0.02	1.00	0.00	0.03	0.0137	70.6	0.321	34.1	0.53	0.10	33.91	5.00	795.04
1/24	47	4.72	0.20	10.8	0.02	1.21	0.00	0.02	0.0137	70.6	0.324	34.4	0.54	0.09	34.01	5.56	800.60
1/25	48	4.92	0.20	10.7	0.01	1.08	0.00	0.03	0.0138	71.1	0.326	34.6	0.55	0.05	34.06	5.21	805.81
1/26	49	5.09	0.10	10.6	0.01	0.99	0.00	0.03	0.0138	71.1	0.328	34.9	0.57	0.05	34.11	4.89	810.69
1/27	50	4.85	0.15	10.7	0.02	0.96	0.00	0.02	0.0138	71.1	0.330	35.1	0.59	0.10	34.21	4.50	815.20
1/28	51	5.17	0.15	10.8	0.01	1.08	0.00	0.02	0.0138	71.1	0.332	35.3	0.60	0.05	34.26	5.48	820.68
1/29	52	4.98	0.10	10.8	0.01	0.98	0.00	0.02	0.0139	71.6	0.334	35.5	0.62	0.05	34.31	4.78	825.46

3439 P-17

Ore Charge								oz/ton ore	
			NaCN added	123.44	g	NaCN	0.50 lb/ton solution	Au	Ag
72.16	kg	0.072 mt	NaCN Consumption	1.68	lb/ton ore				
159.08	lb	0.0795 ton		12.0	lbs Cement/ton of ore		Avg. Head	0.026	0.96
							Head Screen	0.0216	0.84
							Tail Screen	0.0047	0.541
							Tail Assay		

Daily Column Leach Test Data,
Sample I.D. LM-LG (Comp)
Test Conditions,

Feed Size, 80% minus 1/2"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
1/30	53	5.05	0.15	10.7	0.01	0.86	0.00	0.02	0.0139	71.6	0.335	35.6	0.64	0.05	34.36	4.24	829.70
1/31	54	4.84	0.10	10.4	0.01	0.83	0.00	0.02	0.0139	71.6	0.337	35.8	0.66	0.05	34.41	3.92	833.61
2/1	55	5.01	0.05	10.0	0.01	0.66	0.00	0.02	0.0139	71.6	0.338	35.9	0.69	0.05	34.46	3.20	836.82
2/2	56	4.46	0.05	10.7	0.01	0.63	0.00	0.00	0.0139	71.6	0.339	36.0	0.72	0.04	34.50	2.71	839.53
2/3	57	5.31	0.05	10.7	0.01	0.48	0.00	0.00	0.0140	72.2	0.340	36.1	0.75	0.05	34.55	2.55	842.07
2/4	58	5.01	0.05	10.6	0.01	0.40	0.00	0.00	0.0140	72.2	0.341	36.2	0.77	0.05	34.60	2.00	844.08
2/5	59	4.91	0.05	10.7	0.01	0.38	0.00	0.00	0.0140	72.2	0.342	36.3	0.80	0.05	34.65	1.87	845.94
2/6	60	5.08	0.00	10.4	0.01	0.40	0.00	0.02	0.0140	72.2	0.343	36.5	0.84	0.05	34.70	2.03	847.98
2/7	61	4.74	0.00	11.5	0.01	0.38	0.00	0.01	0.0140	72.2	0.343	36.5	0.87	0.05	34.75	1.70	849.68
2/8	62	5.06	0.05	10.7	0.01	0.35	0.00	0.00	0.0141	72.7	0.344	36.6	0.90	0.05	34.80	1.72	851.40
2/9	63	4.97	0.00	10.4	0.01	0.39	0.00	0.00	0.0141	72.7	0.345	36.7	0.94	0.05	34.85	1.94	853.33
2/10	64	5.07	0.05	10.7	0.01	0.33	0.00	0.00	0.0141	72.7	0.346	36.8	0.97	0.05	34.90	1.67	855.01
2/11	65	4.94	0.00	10.8	0.01	0.31	0.00	0.00	0.0141	72.7	0.346	36.8	1.00	0.05	34.95	1.53	856.54
2/12	66	5.04	0.00	10.6	0.01	0.30	0.00	0.00	0.0141	72.7	0.347	36.9	1.04	0.05	35.00	1.51	858.05
2/13	67	5.00	0.05	10.4	0.01	0.34	0.00	0.00	0.0142	73.2	0.348	37.0	1.07	0.05	35.05	1.70	859.75
2/14	68	4.75	0.00	10.4	0.01	0.41	0.00	0.00	0.0142	73.2	0.348	37.0	1.10	0.05	35.10	1.95	861.70
2/15	69	5.02	0.05	10.4	0.01	0.35	0.00	0.00	0.0142	73.2	0.349	37.1	1.13	0.05	35.15	1.76	863.45
2/16	70	4.51	0.05	10.5	0.01	0.39	0.00	0.00	0.0142	73.2	0.350	37.2	1.16	0.05	35.19	1.76	865.21
2/17	71	4.99	0.00	10.5	0.01	0.33	0.00	0.00	0.0142	73.2	0.350	37.2	1.20	0.05	35.24	1.65	866.86
2/18	72	5.00	0.00	10.4	0.01	0.28	0.00	0.00	0.0143	73.7	0.351	37.3	1.23	0.05	35.29	1.40	868.26
2/19	73	5.44	0.05	10.6	0.01	0.31	0.00	0.00	0.0143	73.7	0.352	37.4	1.26	0.05	35.35	1.69	869.95
2/20	74	4.80	0.05	10.4	0.01	0.44	0.00	0.00	0.0143	73.7	0.352	37.4	1.29	0.05	35.40	2.11	872.06
2/21	75	3.83	0.05	10.2	0.01	0.42	0.00	0.00	0.0143	73.7	0.353	37.5	1.32	0.04	35.44	1.61	873.67
2/22	76	2.71	0.10	10.2	0.01	0.50	0.00	0.00	0.0143	73.7	0.354	37.6	1.33	0.03	35.46	1.36	875.02
2/23	77		Rest Cycle														
3/8	90																
3/9	91	4.82	0.00	9.2	0.02	1.28	0.00	0.03	0.0144	74.2	0.356	37.8	1.36	0.10	35.56	6.17	881.19
3/10	92	5.02	0.15	10.6	0.01	1.06	0.00	0.02	0.0144	74.2	0.358	38.0	1.38	0.05	35.61	5.17	886.36
3/11	93	5.07	0.15	10.8	0.00	0.80	0.00	0.03	0.0144	74.2	0.360	38.3	1.39	0.00	35.61	3.95	890.31
3/12	94	5.10	0.20	10.8	0.00	0.77	0.00	0.05	0.0144	74.2	0.361	38.4	1.40	0.00	35.61	3.77	894.09
3/13	95	5.02	0.20	10.8	0.01	0.76	0.00	0.05	0.0144	74.2	0.363	38.6	1.40	0.05	35.66	3.56	897.65
3/14	96	5.06	0.20	10.7	0.01	0.82	0.00	0.06	0.0144	74.2	0.364	38.7	1.41	0.05	35.71	3.89	901.54
3/15	97	4.63	0.15	10.8	0.01	0.83	0.00	0.06	0.0145	74.7	0.366	38.9	1.43	0.05	35.76	3.54	905.08
3/16	98		Rest Cycle														
3/29	111																
3/30	112	4.81	0.00	9.9	0.04	2.53	0.00	0.06	0.0145	74.7	0.371	39.4	1.46	0.19	35.95	12.17	917.25
3/31	113	5.20	0.15	10.6	0.02	1.46	0.00	0.06	0.0146	75.3	0.374	39.7	1.48	0.10	36.05	7.29	924.53
4/1	114	4.89	0.20	10.4	0.00	0.88	0.00	0.06	0.0146	75.3	0.375	39.9	1.49	0.00	36.05	4.00	928.53
4/2	115	4.75	0.15	10.4	0.00	0.93	0.00	0.08	0.0146	75.3	0.377	40.1	1.50	0.00	36.05	4.11	932.64
4/3	116	5.28	0.10	10.5	0.00	0.67	0.00	0.07	0.0146	75.3	0.378	40.2	1.52	0.00	36.05	3.13	935.77
4/4	117	4.84	0.15	10.6	0.00	0.72	0.00	0.07	0.0146	75.3	0.380	40.4	1.54	0.00	36.05	3.13	938.90
4/5	118	4.10	0.15	10.5	0.00	0.84	0.00	0.06	0.0146	75.3	0.381	40.5	1.56	0.00	36.05	3.09	941.99
4/6	119		Rest Cycle														
4/19	132																
4/20	133	5.20	0.00	9.5	0.02	1.64	0.00	0.08	0.0146	75.3	0.384	40.8	1.59	0.10	36.16	8.53	950.52
4/21	134	4.51	0.15	10.7	0.02	1.33	0.00	0.06	0.0147	75.8	0.386	41.0	1.61	0.09	36.25	5.59	956.11
4/22	135	5.51	0.20	10.8	0.00	0.84	0.00	0.08	0.0147	75.8	0.388	41.2	1.61	0.00	36.25	4.32	960.43
4/23	136	4.81	0.15	10.5	0.00	0.68	0.00	0.07	0.0147	75.8	0.389	41.3	1.63	0.00	36.25	2.86	963.29
4/24	137	3.33	0.15	10.2	0.00	0.62	0.00	0.05	0.0147	75.8	0.390	41.4	1.65	0.00	36.25	1.71	965.00
4/25	138	5.82	0.15	10.4	0.01	0.81	0.00	0.09	0.0147	75.8	0.392	41.7	1.66	0.06	36.30	4.46	969.46
4/26	139	5.37	0.15	10.3	0.00	0.62	0.00	0.11	0.0147	75.8	0.393	41.8	1.68	0.00	36.30	2.87	972.33
4/27	140		Rest Cycle														

3439 P-17

Ore Charge				NaCN added	123.44	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	1.68	lb/ton ore				Au	Ag
72.16	kg	0.072	mt								
159.08	lb	0.0795	ton		12.0	lbs Cement/ton of ore					
									Avg. Head	0.026	0.96
									Head Screen	0.0216	0.84
									Tail Screen	0.0047	0.541
									Tail Assay		

Daily Column Leach Test Data,

Sample I.D. LM-LG (Comp)

Test Conditions,

Feed Size, 80% minus 1/2"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
5/10	153																
5/11	154	4.18	0.00	9.8	0.03	1.84	0.00	0.08	0.0147	75.8	0.396	42.1	1.71	0.13	36.43	7.69	980.02
			Rinse Cycle														
5/12	155	5.14	0.10	11.1	0.00	1.35	0.00	0.09	0.0147	75.8	0.399	42.4	1.71	0.00	36.43	6.94	986.96
5/13	156	5.04	0.10	10.8	0.00	0.38	0.00	0.08	0.0147	75.8	0.400	42.5	1.71	0.00	36.43	1.46	988.42
5/14	157	4.61	0.00	11.1	0.00	0.18	0.00	0.27	0.0147	75.8	0.400	42.5	1.71	0.00	36.43	0.83	989.24
5/15	158	4.94	0.00	11.4	0.00	0.08	0.00	0.29	0.0147	75.8	0.400	42.5	1.70	0.00	36.43	0.40	989.64
5/16	159	4.88	0.00	11.3	0.00	0.02	0.00	0.24	0.0147	75.8	0.400	42.5	1.68	0.00	36.43	0.10	989.74
			Drain Down														
								Extracted, oz/ton of ore	**0.0147**	**75.8**	**0.400**	**42.5**					
								Estimated Tail , oz/ton of ore	**0.0047**		**0.541**						
								Calculated Head, oz/ton of ore	**0.0194**		**0.941**						

3439 P-18

Ore Charge				NaCN added	123.74	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	1.55	lb/ton ore				Au	Ag
72.98	kg	0.073	mt								
160.89	lb	0.0804	ton		12.0	lbs Cement/ton of ore					
									Avg. Head	0.014	0.30
									Head Screen	0.0289	0.25
									Tail Screen	0.0058	0.076
									Tail Assay		

Daily Column Leach Test Data,

Sample I.D. LM-006, 007 (LG)

Test Conditions,

Feed Size, 80% minus 1/2"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
12/9	1												0.00	0.00	0.00	0.00	0.00
12/10	2	2.23	0.00	10.3	0.89	4.68	0.00	0.00	0.0008	3.2	0.004	2.0	0.04	1.98	1.98	10.44	10.44
12/11	3	4.54	0.10	11.2	1.70	12.80	0.00	0.00	0.0039	15.7	0.027	13.8	0.06	7.72	9.70	58.11	68.55
12/12	4	4.55	0.20	10.8	1.16	7.35	0.00	0.00	0.0060	24.1	0.041	20.9	0.07	5.28	14.98	33.44	101.99
12/13	5	5.28	0.15	10.7	0.72	4.10	0.00	0.01	0.0075	30.1	0.049	25.0	0.08	3.80	18.78	21.65	123.64
12/14	6	4.89	0.20	10.8	0.49	3.36	0.00	0.00	0.0085	34.1	0.056	28.6	0.09	2.40	21.18	16.38	140.02
12/15	7	4.77	0.20	10.8	0.32	2.06	0.00	0.00	0.0091	36.5	0.060	30.6	0.10	1.53	22.70	9.83	149.84
12/16	8	5.18	0.20	10.7	0.27	1.78	0.00	0.00	0.0096	38.6	0.064	32.7	0.11	1.40	24.10	9.22	159.06
12/17	9	5.50	0.20	10.8	0.23	1.34	0.00	0.00	0.0101	40.6	0.067	34.2	0.11	1.27	25.37	7.37	166.43
12/18	10	4.79	0.15	10.7	0.20	1.25	0.00	0.01	0.0105	42.2	0.069	35.2	0.13	0.96	26.33	5.99	172.42
12/19	11	5.40	0.15	10.7	0.18	1.05	0.00	0.00	0.0109	43.8	0.071	36.2	0.14	0.97	27.30	5.62	178.04
12/20	12	5.07	0.20	10.6	0.16	1.06	0.00	0.00	0.0112	45.0	0.073	37.2	0.15	0.81	28.11	5.37	183.42
12/21	13	4.65	0.20	10.6	0.15	1.10	0.00	0.00	0.0115	46.2	0.075	38.3	0.16	0.70	28.81	5.12	188.53
12/22	14	5.13	0.15	10.4	0.13	0.84	0.00	0.00	0.0118	47.4	0.077	39.3	0.17	0.67	29.47	4.31	192.84
12/23	15	4.71	0.20	10.7	0.13	0.75	0.00	0.00	0.0120	48.2	0.078	39.8	0.18	0.61	30.09	3.53	196.37
12/24	16	5.18	0.20	10.7	0.12	0.74	0.00	0.00	0.0123	49.4	0.080	40.8	0.19	0.62	30.71	3.83	200.21
12/25	17	5.04	0.15	10.9	0.11	0.63	0.00	0.00	0.0125	50.2	0.081	41.3	0.20	0.55	31.26	3.18	203.38
12/26	18	5.10	0.20	10.7	0.10	0.58	0.00	0.00	0.0127	51.0	0.082	41.8	0.21	0.51	31.77	2.96	206.34
12/27	19	5.33	0.20	10.6	0.07	0.49	0.00	0.00	0.0128	51.4	0.084	42.9	0.21	0.37	32.15	2.61	208.95
12/28	20	4.61	0.15	10.6	0.12	0.77	0.00	0.00	0.0131	52.6	0.085	43.4	0.23	0.55	32.70	3.55	212.50
12/29	21	4.90	0.15	10.7	0.11	0.71	0.00	0.01	0.0133	53.4	0.086	43.9	0.24	0.54	33.24	3.48	215.98
12/30	22	5.08	0.20	10.9	0.09	0.63	0.00	0.00	0.0135	54.2	0.088	44.9	0.25	0.46	33.69	3.15	219.13
12/31	23	4.90	0.20	10.6	0.09	0.59	0.00	0.00	0.0136	54.6	0.089	45.4	0.26	0.44	34.14	2.89	222.02
1/1	24	4.24	0.20	10.8	0.08	0.50	0.00	0.00	0.0138	55.4	0.090	45.9	0.27	0.34	34.48	2.12	224.14
1/2	25	5.82	0.15	10.8	0.09	0.57	0.00	0.00	0.0140	56.2	0.091	46.4	0.28	0.52	35.00	3.32	227.46
1/3	26	5.32	0.20	10.6	0.08	0.48	0.00	0.00	0.0142	57.0	0.092	46.9	0.29	0.43	35.42	2.55	230.01
1/4	27	4.45	0.20	11.0	0.08	0.51	0.00	0.00	0.0143	57.4	0.093	47.4	0.30	0.36	35.78	2.27	232.28
1/5	28	5.02	0.15	10.8	0.07	0.44	0.00	0.00	0.0144	57.8	0.094	48.0	0.31	0.35	36.13	2.21	234.49
1/6	29	5.05	0.20	10.9	0.06	0.37	0.00	0.01	0.0146	58.6	0.094	48.0	0.32	0.30	36.43	1.87	236.36
1/7	30	4.89	0.15	10.9	0.06	0.35	0.00	0.01	0.0147	59.0	0.095	48.5	0.34	0.29	36.73	1.66	238.02
1/8	31	5.18	0.15	10.8	0.06	0.30	0.00	0.01	0.0148	59.4	0.096	49.0	0.35	0.31	37.04	1.50	239.52
1/9	32	4.81	0.15	10.9	0.06	0.35	0.00	0.01	0.0149	59.8	0.096	49.0	0.36	0.29	37.33	1.63	241.15
1/10	33	4.66	0.15	10.6	0.06	0.36	0.00	0.00	0.0150	60.2	0.097	49.5	0.38	0.28	37.61	1.63	242.78
1/11	34	5.30	0.15	10.8	0.05	0.34	0.00	0.00	0.0151	60.6	0.098	50.0	0.39	0.27	37.87	1.80	244.58
1/12	35	4.59	0.20	10.7	0.06	0.37	0.00	0.00	0.0152	61.0	0.098	50.0	0.40	0.28	38.15	1.70	246.28
1/13	36	5.30	0.15	10.8	0.06	0.36	0.00	0.00	0.0154	61.8	0.099	50.5	0.42	0.32	38.47	1.91	248.19
1/14	37	4.75	0.20	10.7	0.06	0.35	0.00	0.00	0.0155	62.2	0.100	51.0	0.43	0.29	38.75	1.66	249.85
1/15	38	5.30	0.20	10.6	0.05	0.32	0.00	0.00	0.0156	62.7	0.101	51.5	0.43	0.27	39.02	1.70	251.55
1/16	39	5.17	0.15	10.5	0.05	0.29	0.00	0.00	0.0157	63.1	0.101	51.5	0.45	0.26	39.27	1.50	253.05
1/17	40	4.53	0.15	10.6	0.05	0.33	0.00	0.00	0.0158	63.5	0.102	52.0	0.46	0.23	39.50	1.49	254.54
1/18	41	5.03	0.15	10.6	0.05	0.28	0.00	0.00	0.0159	63.9	0.102	52.0	0.48	0.25	39.75	1.41	255.95
1/19	42	4.44	0.20	10.7	0.04	0.30	0.00	0.01	0.0160	64.3	0.103	52.6	0.49	0.18	39.93	1.33	257.28
1/20	43	5.42	0.15	10.7	0.05	0.28	0.00	0.00	0.0161	64.7	0.103	52.6	0.50	0.27	40.20	1.47	258.75
1/21	44	5.20	0.20	10.7	0.04	0.23	0.00	0.00	0.0161	64.7	0.104	53.1	0.51	0.21	40.41	1.20	259.94
1/22	45	5.06	0.15	10.6	0.04	0.24	0.00	0.00	0.0162	65.1	0.104	53.1	0.52	0.20	40.61	1.21	261.16
1/23	46	5.13	0.20	10.8	0.04	0.23	0.00	0.00	0.0163	65.5	0.105	53.6	0.53	0.21	40.82	1.18	262.34
1/24	47	4.65	0.20	10.7	0.05	0.27	0.00	0.00	0.0164	65.9	0.105	53.6	0.54	0.23	41.05	1.26	263.59
1/25	48	4.05	0.15	10.5	0.04	0.25	0.00	0.00	0.0165	66.3	0.106	54.1	0.56	0.16	41.21	1.01	264.61
1/26	49	5.44	0.20	10.5	0.04	0.22	0.00	0.00	0.0166	66.7	0.106	54.1	0.56	0.22	41.43	1.20	265.80
1/27	50	4.57	0.15	10.5	0.04	0.22	0.00	0.00	0.0166	66.7	0.107	54.6	0.58	0.18	41.61	1.01	266.81
1/28	51	5.58	0.15	10.7	0.04	0.22	0.00	0.00	0.0167	67.1	0.107	54.6	0.59	0.22	41.83	1.23	268.04
1/29	52	5.08	0.20	10.7	0.03	0.20	0.00	0.00	0.0168	67.5	0.108	55.1	0.60	0.15	41.99	1.02	269.05

3439 P-18

Ore Charge				NaCN added	123.74	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	1.55	lb/ton ore				Au	Ag
72.98	kg	0.073	mt								
160.89	lb	0.0804	ton		12.0	lbs Cement/ton of ore				Avg. Head	0.014	0.30
										Head Screen	0.0289	0.25
										Tail Screen	0.0058	0.076
										Tail Assay		

Daily Column Leach Test Data,
Sample I.D. LM-006, 007 (LG)
Test Conditions,

Feed Size, 80% minus 1/2"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
1/30	53	5.15	0.15	10.6	0.03	0.19	0.00	0.00	0.0168	67.5	0.108	55.1	0.61	0.15	42.14	0.98	270.03
1/31	54	4.68	0.15	10.4	0.03	0.19	0.00	0.00	0.0169	67.9	0.108	55.1	0.63	0.14	42.28	0.89	270.92
2/1	55	5.00	0.10	10.2	0.03	0.18	0.00	0.00	0.0170	68.3	0.109	55.6	0.65	0.15	42.43	0.90	271.82
2/2	56	4.02	0.10	10.6	0.04	0.18	0.00	0.00	0.0170	68.3	0.109	55.6	0.67	0.16	42.59	0.72	272.54
2/3	57	5.86	0.20	10.6	0.03	0.16	0.00	0.00	0.0171	68.7	0.109	55.6	0.68	0.18	42.77	0.94	273.48
2/4	58	5.00	0.20	10.7	0.03	0.13	0.00	0.00	0.0172	69.1	0.110	56.1	0.68	0.15	42.92	0.65	274.13
2/5	59	4.95	0.10	10.7	0.03	0.13	0.00	0.00	0.0172	69.1	0.110	56.1	0.70	0.15	43.07	0.64	274.77
2/6	60	5.15	0.15	10.4	0.03	0.16	0.00	0.00	0.0173	69.5	0.110	56.1	0.72	0.15	43.22	0.82	275.60
2/7	61	4.57	0.15	10.5	0.03	0.17	0.00	0.00	0.0173	69.5	0.110	56.1	0.73	0.14	43.36	0.78	276.38
2/8	62	5.10	0.10	10.7	0.03	0.14	0.00	0.00	0.0174	69.9	0.111	56.6	0.76	0.15	43.51	0.71	277.09
2/9	63	4.95	0.10	10.4	0.02	0.13	0.00	0.00	0.0174	69.9	0.111	56.6	0.78	0.10	43.61	0.64	277.73
2/10	64	2.25	0.10	10.1	0.03	0.08	0.00	0.00	0.0175	70.3	0.111	56.6	0.79	0.07	43.68	0.18	277.91
2/11	65	5.96	0.05	10.6	0.03	0.10	0.00	0.00	0.0175	70.3	0.111	56.6	0.82	0.18	43.86	0.60	278.51
2/12	66	5.06	0.05	10.4	0.02	0.05	0.00	0.00	0.0176	70.7	0.111	56.6	0.85	0.10	43.96	0.25	278.76
2/13	67	5.02	0.00	10.2	0.02	0.03	0.00	0.00	0.0176	70.7	0.111	56.6	0.88	0.10	44.06	0.15	278.91
2/14	68	4.54	0.00	10.2	0.02	0.05	0.00	0.00	0.0176	70.7	0.112	57.1	0.92	0.09	44.15	0.23	279.14
2/15	69	5.05	0.00	10.3	0.01	0.04	0.00	0.00	0.0177	71.1	0.112	57.1	0.95	0.05	44.20	0.20	279.34
2/16	70	3.90	0.00	10.2	0.01	0.02	0.00	0.00	0.0177	71.1	0.112	57.1	0.99	0.04	44.24	0.08	279.42
2/17	71	5.09	0.00	10.3	0.01	0.00	0.00	0.00	0.0177	71.1	0.112	57.1	1.02	0.05	44.29	0.00	279.42
2/18	72	5.11	0.00	10.3	0.01	0.00	0.00	0.00	0.0177	71.1	0.112	57.1	1.06	0.05	44.34	0.00	279.42
2/19	73	6.01	0.05	10.3	0.01	0.00	0.00	0.00	0.0177	71.1	0.112	57.1	1.09	0.06	44.40	0.00	279.42
2/20	74	4.75	0.10	10.2	0.01	0.00	0.00	0.00	0.0178	71.5	0.112	57.1	1.11	0.05	44.45	0.00	279.42
2/21	75	5.21	0.05	10.2	0.01	0.02	0.00	0.00	0.0178	71.5	0.112	57.1	1.14	0.05	44.50	0.10	279.52
2/22	76	4.86	0.00	10.3	0.01	0.00	0.00	0.00	0.0178	71.5	0.112	57.1	1.17	0.05	44.55	0.00	279.52
2/23	77		Rest Cycle														
3/8	90																
3/9	91	4.51	0.00	9.5	0.02	0.24	0.00	0.00	0.0178	71.5	0.112	57.1	1.21	0.09	44.64	1.08	280.61
3/10	92	4.96	0.15	10.5	0.02	0.19	0.00	0.00	0.0179	71.9	0.113	57.7	1.22	0.10	44.74	0.94	281.55
3/11	93	5.13	0.20	10.7	0.03	0.12	0.00	0.00	0.0179	71.9	0.113	57.7	1.23	0.15	44.89	0.62	282.16
3/12	94	4.90	0.15	10.6	0.03	0.13	0.00	0.00	0.0180	72.3	0.113	57.7	1.24	0.15	45.04	0.64	282.80
3/13	95	5.09	0.15	10.6	0.03	0.11	0.00	0.00	0.0181	72.7	0.113	57.7	1.26	0.15	45.19	0.56	283.36
3/14	96	5.07	0.15	10.5	0.03	0.12	0.00	0.00	0.0181	72.7	0.113	57.7	1.27	0.15	45.34	0.61	283.97
3/15	97	4.56	0.15	10.6	0.03	0.14	0.00	0.00	0.0182	73.1	0.114	58.2	1.29	0.14	45.48	0.64	284.61
3/16	98		Rest Cycle														
3/29	111																
3/30	112	4.61	0.00	9.6	0.07	0.51	0.00	0.00	0.0183	73.5	0.115	58.7	1.32	0.32	45.80	2.35	286.96
3/31	113	5.40	0.15	10.4	0.04	0.34	0.00	0.00	0.0184	73.9	0.115	58.7	1.34	0.22	46.02	1.84	288.79
4/1	114	4.90	0.15	10.2	0.02	0.14	0.00	0.00	0.0184	73.9	0.116	59.2	1.35	0.10	46.12	0.69	289.48
4/2	115	4.75	0.10	10.2	0.03	0.14	0.00	0.00	0.0185	74.3	0.116	59.2	1.37	0.14	46.26	0.67	290.15
4/3	116	5.34	0.15	10.4	0.03	0.11	0.00	0.00	0.0186	74.7	0.116	59.2	1.39	0.16	46.42	0.59	290.73
4/4	117	4.86	0.15	10.4	0.03	0.12	0.00	0.00	0.0186	74.7	0.116	59.2	1.40	0.15	46.57	0.58	291.32
4/5	118	4.18	0.15	10.3	0.03	0.13	0.00	0.00	0.0187	75.1	0.117	59.7	1.42	0.13	46.69	0.54	291.86
4/6	119		Rest Cycle														
4/19	132																
4/20	133	4.84	0.00	9.3	0.04	0.34	0.00	0.00	0.0187	75.1	0.117	59.7	1.45	0.19	46.89	1.65	293.51
4/21	134	4.94	0.15	10.5	0.03	0.27	0.00	0.00	0.0188	75.5	0.118	60.2	1.47	0.15	47.03	1.33	294.84
4/22	135	5.40	0.20	10.7	0.02	0.12	0.00	0.00	0.0188	75.5	0.118	60.2	1.47	0.11	47.14	0.65	295.49
4/23	136	4.80	0.15	10.3	0.02	0.09	0.00	0.00	0.0189	75.9	0.118	60.2	1.49	0.10	47.24	0.43	295.92
4/24	137	5.21	0.20	10.2	0.02	0.08	0.00	0.00	0.0189	75.9	0.118	60.2	1.50	0.10	47.34	0.42	296.34
4/25	138	3.27	0.15	10.1	0.05	0.12	0.00	0.00	0.0190	76.3	0.119	60.7	1.52	0.16	47.50	0.39	296.73
4/26	139	6.41	0.15	10.2	0.00	0.09	0.00	0.00	0.0190	76.3	0.119	60.7	1.53	0.00	47.50	0.58	297.31
4/27	140		Rest Cycle														

3439 P-18

Ore Charge				NaCN added	123.74	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	1.55	lb/ton ore				Au	Ag
72.98	kg	0.073	mt								
160.89	lb	0.0804	ton		12.0	lbs Cement/ton of ore					
									Avg. Head	0.014	0.30
									Head Screen	0.0289	0.25
									Tail Screen	0.0058	0.076
									Tail Assay		

Daily Column Leach Test Data,

Sample I.D. LM-006, 007 (LG)

Test Conditions,

Feed Size, 80% minus 1/2"

			Pregnant Solution Analyses				Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
5/10	153																
5/11	154	4.25	0.00	9.9	0.05	0.37	0.01	0.00	0.0191	76.7	0.119	60.7	1.56	0.21	47.72	1.57	298.88
			Rinse Cycle														
5/12	155	4.87	0.10	10.9	0.01	0.20	0.00	0.00	0.0191	76.7	0.120	61.2	1.56	0.05	47.77	0.97	299.85
5/13	156	5.33	0.00	10.7	0.00	0.05	0.00	0.00	0.0191	76.7	0.120	61.2	1.56	0.00	47.77	0.27	300.12
5/14	157	4.51	0.00	10.9	0.00	0.03	0.00	0.02	0.0191	76.7	0.120	61.2	1.56	0.00	47.77	0.14	300.25
5/15	158	5.05	0.00	11.2	0.00	0.03	0.00	0.01	0.0191	76.7	0.120	61.2	1.55	0.00	47.77	0.15	300.41
5/16	159	4.91	0.00	11.1	0.00	0.01	0.00	0.01	0.0191	76.7	0.120	61.2	1.55	0.00	47.77	0.05	300.45
			Drain Down														

Extracted, oz/ton of ore	**0.0191**	**76.7**	**0.120**	**61.2**
Estimated Tail , oz/ton of ore	**0.0058**		**0.076**	
Calculated Head, oz/ton of ore	**0.0249**		**0.196**	

3439 P-19

Ore Charge			
72.81	kg	0.073	mt
160.52	lb	0.0803	ton

NaCN added 123.67 g
NaCN Consumption 1.20 lb/ton ore
12.0 lbs Cement/ton of ore

NaCN 0.50 lb/ton solution

	oz/ton ore Au	oz/ton ore Ag
Avg. Head	0.205	1.84
Head Screen	0.2731	1.67
Tail Screen	0.0511	0.888
Tail Assay		

Daily Column Leach Test Data,
Sample I.D. LM-010, 011 (HG)
Test Conditions,

Feed Size, 80% minus 1/2"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
Date	Days Leached	Vol. l.	NaCN Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
12/9	1												0.00	0.00	0.00	0.00	0.00
12/10	2	2.62	0.00	10.9	2.76	17.00	0.00	0.01	0.0029	1.6	0.018	1.0	0.04	7.23	7.23	44.54	44.54
12/11	3	4.67	0.05	11.7	7.71	51.60	0.00	0.00	0.0173	9.7	0.114	6.5	0.06	36.01	43.24	240.92	285.46
12/12	4	4.68	0.10	11.0	7.68	44.00	0.00	0.00	0.0317	17.7	0.197	11.3	0.09	35.94	79.18	205.92	491.38
12/13	5	5.15	0.20	11.2	5.30	35.20	0.00	0.01	0.0427	23.8	0.269	15.4	0.09	27.30	106.47	181.28	672.66
12/14	6	4.91	0.15	11.2	3.61	22.80	0.00	0.02	0.0498	27.8	0.314	17.9	0.11	17.73	124.20	111.90	784.56
12/15	7	4.85	0.15	11.3	2.63	15.50	0.00	0.02	0.0549	30.6	0.344	19.6	0.12	12.76	136.95	75.07	859.63
12/16	8	5.15	0.20	11.2	2.11	14.00	0.00	0.02	0.0592	33.0	0.373	21.3	0.13	10.87	147.82	72.00	931.63
12/17	9	5.31	0.20	11.2	1.76	12.50	0.00	0.04	0.0630	35.2	0.400	22.8	0.14	9.35	157.17	66.27	997.90
12/18	10	4.84	0.20	11.1	1.65	11.30	0.00	0.03	0.0662	36.9	0.422	24.1	0.14	7.99	165.15	54.49	1052.39
12/19	11	5.27	0.20	11.1	1.41	9.40	0.00	0.05	0.0691	38.6	0.441	25.2	0.15	7.43	172.58	49.39	1101.78
12/20	12	5.05	0.20	11.1	1.24	8.60	0.00	0.05	0.0716	40.0	0.459	26.2	0.16	6.26	178.85	43.18	1144.95
12/21	13	4.66	0.20	11.1	1.19	9.04	0.00	0.05	0.0739	41.2	0.475	27.1	0.17	5.55	184.39	41.87	1186.82
12/22	14	5.07	0.20	10.9	1.03	7.36	0.00	0.05	0.0760	42.4	0.490	28.0	0.18	5.22	189.61	37.06	1223.88
12/23	15	4.76	0.25	11.2	1.05	7.35	0.00	0.06	0.0780	43.5	0.504	28.8	0.18	5.00	194.61	34.73	1258.61
12/24	16	5.12	0.20	11.3	0.88	6.12	0.00	0.08	0.0798	44.5	0.517	29.5	0.18	4.51	199.12	31.03	1289.64
12/25	17	5.04	0.20	11.4	0.81	5.76	0.00	0.08	0.0814	45.4	0.528	30.2	0.19	4.08	203.20	28.62	1318.26
12/26	18	5.09	0.20	11.4	0.78	5.18	0.00	0.09	0.0830	46.3	0.538	30.7	0.20	3.97	207.17	25.96	1344.22
12/27	19	5.21	0.20	11.4	0.55	3.86	0.00	0.11	0.0841	46.9	0.546	31.2	0.21	2.87	210.03	19.65	1363.87
12/28	20	4.70	0.20	11.1	0.88	6.33	0.00	0.13	0.0858	47.9	0.558	31.9	0.22	4.14	214.17	29.19	1393.06
12/29	21	4.93	0.20	11.3	0.79	5.91	0.00	0.17	0.0874	48.8	0.569	32.5	0.22	3.89	218.07	28.47	1421.54
12/30	22	5.06	0.20	11.6	0.66	5.14	0.00	0.20	0.0887	49.5	0.580	33.1	0.23	3.34	221.41	25.14	1446.68
12/31	23	4.89	0.25	11.2	0.62	4.82	0.00	0.20	0.0899	50.2	0.589	33.6	0.23	3.03	224.44	22.55	1469.23
1/1	24	5.10	0.20	11.5	0.56	4.30	0.00	0.25	0.0911	50.8	0.597	34.1	0.24	2.86	227.29	20.91	1490.14
1/2	25	4.78	0.15	11.3	0.59	4.48	0.00	0.22	0.0922	51.5	0.605	34.6	0.25	2.82	230.11	20.14	1510.28
1/3	26	5.20	0.20	11.3	0.51	3.84	0.00	0.28	0.0932	52.0	0.613	35.0	0.26	2.65	232.77	18.85	1529.12
1/4	27	4.59	0.25	11.5	0.59	4.50	0.00	0.24	0.0943	52.6	0.620	35.4	0.27	2.71	235.47	19.23	1548.35
1/5	28	5.02	0.20	11.5	0.51	3.82	0.00	0.28	0.0954	53.2	0.627	35.8	0.27	2.56	238.03	17.95	1566.30
1/6	29	5.03	0.15	11.6	0.44	3.34	0.00	0.31	0.0962	53.7	0.634	36.2	0.29	2.21	240.25	15.37	1581.67
1/7	30	4.89	0.20	11.7	0.42	2.99	0.00	0.27	0.0971	54.2	0.639	36.5	0.30	2.05	242.30	13.04	1594.71
1/8	31	5.11	0.20	11.7	0.40	3.00	0.00	0.33	0.0979	54.6	0.644	36.8	0.30	2.04	244.34	13.95	1608.67
1/9	32	4.85	0.25	11.6	0.40	3.26	0.00	0.34	0.0987	55.1	0.650	37.1	0.30	1.94	246.28	14.13	1622.80
1/10	33	4.76	0.20	11.6	0.39	3.28	0.00	0.37	0.0994	55.5	0.656	37.5	0.31	1.86	248.14	13.88	1636.67
1/11	34	5.19	0.20	11.5	0.39	2.86	0.00	0.46	0.1002	55.9	0.661	37.7	0.32	2.02	250.17	12.96	1649.63
1/12	35	4.72	0.15	11.5	0.41	3.18	0.00	0.44	0.1010	56.4	0.666	38.0	0.34	1.94	252.10	12.66	1662.29
1/13	36	5.19	0.20	11.5	0.39	3.18	0.01	0.54	0.1018	56.8	0.672	38.4	0.34	2.02	254.12	14.26	1676.55
1/14	37	4.81	0.20	11.4	0.40	3.40	0.00	0.56	0.1026	57.3	0.677	38.7	0.35	1.87	256.00	13.60	1690.15
1/15	38	5.21	0.20	11.4	0.36	3.08	0.00	0.71	0.1033	57.6	0.682	38.9	0.36	1.88	257.87	13.19	1703.35
1/16	39	5.12	0.20	11.2	0.34	3.08	0.00	0.77	0.1040	58.0	0.687	39.2	0.36	1.74	259.61	12.15	1715.49
1/17	40	4.64	0.25	11.3	0.38	3.46	0.00	0.63	0.1047	58.4	0.692	39.5	0.37	1.76	261.38	12.13	1727.62
1/18	41	5.04	0.25	11.3	0.32	3.00	0.00	0.69	0.1054	58.8	0.697	39.8	0.37	1.61	262.99	11.91	1739.53
1/19	42	4.67	0.20	11.4	0.32	2.83	0.00	0.64	0.1060	59.2	0.701	40.0	0.38	1.49	264.48	9.70	1749.23
1/20	43	5.17	0.15	11.3	0.31	2.73	0.00	0.83	0.1066	59.5	0.705	40.3	0.39	1.60	266.09	10.85	1760.08
1/21	44	5.18	0.20	11.4	0.26	2.43	0.00	0.79	0.1071	59.8	0.708	40.4	0.40	1.35	267.43	8.35	1768.43
1/22	45	4.98	0.20	11.3	0.28	2.67	0.00	0.72	0.1077	60.1	0.712	40.7	0.41	1.39	268.83	9.27	1777.70
1/23	46	4.49	0.20	11.5	0.32	3.01	0.00	0.65	0.1083	60.4	0.716	40.9	0.42	1.44	270.26	9.84	1787.54
1/24	47	4.98	0.20	11.4	0.31	2.87	0.00	0.75	0.1089	60.8	0.720	41.1	0.42	1.54	271.81	10.98	1798.52
1/25	48	4.82	0.25	11.3	0.26	2.50	0.00	0.75	0.1094	61.0	0.724	41.3	0.43	1.25	273.06	8.23	1806.74
1/26	49	5.34	0.20	11.2	0.24	2.53	0.00	0.94	0.1099	61.3	0.728	41.6	0.43	1.28	274.34	9.69	1816.43
1/27	50	4.84	0.20	11.3	0.26	2.49	0.00	1.01	0.1104	61.6	0.731	41.7	0.44	1.26	275.60	7.26	1823.69
1/28	51	5.17	0.20	11.4	0.23	2.75	0.00	1.14	0.1109	61.9	0.734	41.9	0.45	1.19	276.79	9.07	1832.75
1/29	52	4.97	0.15	11.4	0.22	2.73	0.00	1.15	0.1113	62.1	0.737	42.1	0.46	1.09	277.88	7.75	1840.51

3439 P-19

Ore Charge				NaCN added	123.67	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	1.20	lb/ton ore				Au	Ag
72.81	kg	0.073	mt								
160.52	lb	0.0803	ton		12.0	lbs Cement/ton of ore					
									Avg. Head	0.205	1.84
									Head Screen	0.2731	1.67
									Tail Screen	0.0511	0.888
									Tail Assay		

Daily Column Leach Test Data,
Sample I.D. LM-010, 011 (HG)
Test Conditions,

Feed Size, 80% minus 1/2"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
1/30	53	5.00	0.20	11.2	0.22	2.67	0.00	1.13	0.1118	62.4	0.740	42.3	0.47	1.10	278.98	7.49	1847.99
1/31	54	4.83	0.20	11.1	0.23	2.68	0.00	1.02	0.1122	62.6	0.743	42.4	0.48	1.11	280.10	7.18	1855.17
2/1	55	4.99	0.20	10.9	0.22	2.51	0.00	1.04	0.1126	62.8	0.746	42.6	0.49	1.10	281.19	7.32	1862.50
2/2	56	4.48	0.20	11.4	0.24	2.76	0.00	0.98	0.1131	63.1	0.749	42.8	0.50	1.08	282.27	7.06	1869.56
2/3	57	5.39	0.20	11.3	0.21	2.44	0.00	1.13	0.1135	63.3	0.752	42.9	0.50	1.13	283.40	8.15	1877.71
2/4	58	5.00	0.20	11.4	0.18	2.27	0.00	1.12	0.1139	63.6	0.754	43.1	0.51	0.90	284.30	5.59	1883.30
2/5	59	4.95	0.20	11.5	0.19	2.41	0.00	1.16	0.1143	63.8	0.757	43.2	0.52	0.94	285.24	6.22	1889.51
2/6	60	5.08	0.15	11.1	0.20	2.49	0.00	1.34	0.1147	64.0	0.760	43.4	0.53	1.02	286.26	6.73	1896.25
2/7	61	4.68	0.15	11.3	0.19	2.53	0.00	1.18	0.1150	64.2	0.762	43.5	0.55	0.89	287.15	5.01	1901.25
2/8	62	5.07	0.20	11.4	0.18	2.33	0.00	1.31	0.1154	64.4	0.764	43.6	0.56	0.91	288.06	5.80	1907.05
2/9	63	4.87	0.15	11.2	0.18	2.47	0.00	1.26	0.1157	64.6	0.766	43.7	0.57	0.88	288.94	5.35	1912.40
2/10	64	5.06	0.15	11.3	0.16	2.41	0.00	1.36	0.1161	64.8	0.768	43.9	0.59	0.81	289.74	5.77	1918.17
2/11	65	4.91	0.15	11.4	0.16	2.21	0.00	1.19	0.1164	65.0	0.770	44.0	0.60	0.79	290.53	3.92	1922.08
2/12	66	5.03	0.10	11.1	0.16	2.30	0.00	1.34	0.1167	65.1	0.772	44.1	0.62	0.80	291.34	5.50	1927.58
2/13	67	4.97	0.15	11.1	0.16	2.25	0.00	1.39	0.1170	65.3	0.774	44.2	0.64	0.80	292.13	4.35	1931.93
2/14	68	4.76	0.10	11.0	0.17	2.45	0.00	1.32	0.1173	65.5	0.776	44.3	0.66	0.81	292.94	4.57	1936.50
2/15	69	5.03	0.15	11.2	0.14	2.32	0.00	1.50	0.1176	65.6	0.778	44.4	0.67	0.70	293.64	4.94	1941.44
2/16	70	4.48	0.10	11.1	0.15	2.37	0.00	1.29	0.1179	65.8	0.779	44.5	0.70	0.67	294.32	2.97	1944.41
2/17	71	4.97	0.10	11.0	0.13	2.26	0.00	1.25	0.1182	66.0	0.781	44.6	0.72	0.65	294.96	4.65	1949.06
2/18	72	4.98	0.10	11.1	0.12	2.15	0.00	1.28	0.1184	66.1	0.783	44.7	0.74	0.60	295.56	4.33	1953.39
2/19	73	5.45	0.05	11.2	0.10	1.96	0.00	1.33	0.1186	66.2	0.784	44.8	0.77	0.55	296.10	4.15	1957.55
2/20	74	4.79	0.10	10.0	0.12	2.30	0.00	1.33	0.1188	66.3	0.786	44.9	0.79	0.57	296.68	4.23	1961.78
2/21	75	5.12	0.10	10.9	0.12	2.36	0.00	1.38	0.1191	66.5	0.788	45.0	0.81	0.61	297.29	5.30	1967.08
2/22	76	4.71	0.10	11.0	0.12	2.19	0.00	1.20	0.1193	66.6	0.789	45.1	0.83	0.57	297.86	3.28	1970.36
2/23	77		Rest Cycle														
3/8	90																
3/9	91	4.55	0.00	9.4	0.43	4.91	0.29	3.64	0.1201	67.0	0.798	45.6	0.87	1.96	299.82	22.34	1992.70
3/10	92	1.14	0.05	10.8	0.31	3.86	0.11	1.32	0.1199	66.9	0.795	45.4	0.89	-0.56	299.26	-7.03	1985.67
3/11	93	6.61	0.10	11.2	0.35	4.10	0.00	0.03	0.1206	67.3	0.804	45.9	0.90	1.75	301.01	20.37	2006.04
3/12	94	4.98	0.20	11.1	0.30	2.93	0.00	0.02	0.1212	67.6	0.809	46.2	0.91	1.49	302.50	14.44	2020.48
3/13	95	4.99	0.15	11.1	0.20	1.60	0.00	0.02	0.1216	67.9	0.813	46.4	0.93	1.00	303.50	7.88	2028.36
3/14	96	5.04	0.20	10.9	0.16	1.15	0.00	0.03	0.1219	68.0	0.815	46.5	0.93	0.81	304.31	5.69	2034.05
3/15	97	4.68	0.15	11.0	0.16	1.17	0.00	0.03	0.1222	68.2	0.817	46.7	0.95	0.75	305.06	5.32	2039.38
3/16	98		Rest Cycle														
3/29	111																
3/30	112	4.61	0.00	10.2	0.29	2.50	0.00	0.04	0.1227	68.5	0.822	46.9	0.98	1.34	306.39	11.53	2050.90
3/31	113	5.15	0.10	10.9	0.18	1.54	0.00	0.03	0.1231	68.7	0.825	47.1	1.01	0.93	307.32	7.73	2058.63
4/1	114	4.92	0.20	10.7	0.13	0.99	0.00	0.03	0.1234	68.9	0.827	47.2	1.01	0.64	307.96	4.72	2063.35
4/2	115	3.86	0.15	10.4	0.17	1.31	0.00	0.03	0.1236	69.0	0.829	47.3	1.03	0.66	308.62	4.90	2068.25
4/3	116	6.07	0.15	10.9	0.13	0.97	0.00	0.03	0.1239	69.1	0.831	47.5	1.04	0.79	309.41	5.73	2073.98
4/4	117	4.82	0.15	10.6	0.12	0.89	0.00	0.05	0.1242	69.3	0.832	47.5	1.06	0.58	309.98	4.14	2078.12
4/5	118	4.42	0.15	10.7	0.14	1.00	0.00	0.04	0.1244	69.4	0.834	47.6	1.08	0.62	310.60	4.17	2082.29
4/6	119		Rest Cycle														
4/19	132																
4/20	133	4.86	0.00	9.5	0.22	2.09	0.00	0.06	0.1249	69.7	0.838	47.9	1.11	1.07	311.67	10.16	2092.44
4/21	134	4.71	0.15	11.0	0.17	1.54	0.00	0.05	0.1252	69.9	0.841	48.0	1.13	0.80	312.47	6.95	2099.39
4/22	135	5.32	0.20	11.1	0.13	1.10	0.00	0.07	0.1255	70.0	0.843	48.1	1.13	0.69	313.17	5.60	2104.99
4/23	136	4.88	0.20	10.7	0.12	0.94	0.00	0.06	0.1257	70.1	0.845	48.3	1.14	0.59	313.75	4.23	2109.22
4/24	137	5.17	0.15	10.5	0.12	0.82	0.00	0.07	0.1259	70.3	0.847	48.4	1.15	0.62	314.37	3.93	2113.15
4/25	138	4.29	0.15	10.5	0.16	1.15	0.00	0.07	0.1262	70.4	0.848	48.4	1.17	0.69	315.06	4.58	2117.73
4/26	139	5.39	0.20	10.5	0.11	0.98	0.00	0.09	0.1264	70.5	0.850	48.5	1.18	0.59	315.65	4.93	2122.65
4/27	140		Rest Cycle														

3439 P-19

Ore Charge				NaCN added	123.67	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	1.20	lb/ton ore				Au	Ag
72.81	kg	0.073	mt								
160.52	lb	0.0803	ton		12.0	lbs Cement/ton of ore					
									Avg. Head	0.205	1.84
									Head Screen	0.2731	1.67
									Tail Screen	0.0511	0.888
									Tail Assay		

Daily Column Leach Test Data,

Sample I.D. LM-010, 011 (HG)

Test Conditions,

Feed Size, 80% minus 1/2"

			Pregnant Solution Analyses				Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
5/10	153																
5/11	154	4.30	0.00	10.2	0.49	3.86	0.00	0.08	0.1273	71.0	0.857	48.9	1.21	2.11	317.76	16.60	2139.25
			Rinse Cycle														
5/12	155	5.03	0.10	11.4	0.26	2.10	0.00	0.08	0.1278	71.3	0.861	49.2	1.21	1.31	319.07	10.56	2149.81
5/13	156	5.30	0.00	11.1	0.06	0.62	0.00	0.04	0.1279	71.4	0.862	49.2	1.21	0.32	319.38	2.88	2152.69
5/14	157	4.74	0.00	11.1	0.00	0.34	0.00	0.19	0.1279	71.4	0.863	49.3	1.21	0.00	319.38	1.61	2154.30
5/15	158	4.68	0.00	11.4	0.04	0.09	0.01	0.23	0.1280	71.4	0.863	49.3	1.20	0.19	319.57	0.42	2154.72
5/16	159	4.27	0.00	11.4	0.02	0.15	0.00	0.13	0.1281	71.5	0.863	49.3	1.20	0.09	319.66	0.64	2155.37
			Drain Down														

Extracted, oz/ton of ore	**0.1281**	**71.5**	**0.863**	**49.3**
Estimated Tail , oz/ton of ore	**0.0511**		**0.888**	
Calculated Head, oz/ton of ore	**0.1792**		**1.751**	

3439 P-20

Ore Charge				NaCN added	123.56	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	0.50	lb/ton ore				Au	Ag
66.09	kg	0.066	mt								
145.70	lb	0.073	ton		12.0	lbs Cement/ton of ore			Avg. Head	0.084	1.50
									Head Screen	0.0692	1.62
									Tail Screen	0.0331	0.756
									Tail Assay		

Daily Column Leach Test Data,

Sample I.D. PC10-07, 08 (Core)

Test Conditions,

Feed Size, 80% minus 1/2"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
12/9	1												0.00	0.00	0.00	0.00	0.00
12/10	2	4.16	0.15	11.6	0.85	8.15	0.00	0.00	0.0016	2.4	0.015	1.1	0.02	3.54	3.54	33.90	33.90
12/11	3	4.88	0.15	12.6	0.81	9.50	0.00	0.00	0.0033	5.0	0.035	2.5	0.04	3.95	7.49	46.36	80.26
12/12	4	4.92	0.25	12.0	0.74	5.55	0.00	0.00	0.0049	7.4	0.047	3.4	0.04	3.64	11.13	27.31	107.57
12/13	5	5.00	0.25	12.0	0.59	6.50	0.00	0.00	0.0062	9.4	0.062	4.5	0.04	2.95	14.08	32.50	140.07
12/14	6	4.95	0.15	12.0	0.47	5.46	0.00	0.00	0.0072	10.9	0.074	5.3	0.06	2.33	16.41	27.03	167.10
12/15	7	4.97	0.25	12.1	0.41	5.28	0.00	0.00	0.0081	12.2	0.085	6.1	0.06	2.04	18.44	26.24	193.34
12/16	8	5.04	0.25	12.0	0.37	5.25	0.00	0.00	0.0090	13.6	0.097	7.0	0.06	1.86	20.31	26.46	219.80
12/17	9	5.05	0.15	12.1	0.30	4.36	0.00	0.01	0.0096	14.5	0.107	7.7	0.07	1.52	21.82	22.02	241.82
12/18	10	4.96	0.20	12.0	0.33	4.66	0.00	0.00	0.0104	15.7	0.117	8.4	0.08	1.64	23.46	23.06	264.88
12/19	11	5.05	0.20	12.0	0.29	4.40	0.00	0.02	0.0110	16.6	0.127	9.1	0.09	1.46	24.92	22.22	287.10
12/20	12	5.02	0.25	12.0	0.27	4.48	0.00	0.02	0.0116	17.5	0.137	9.8	0.09	1.36	26.28	22.39	309.49
12/21	13	4.74	0.25	12.0	0.28	4.96	0.00	0.01	0.0122	18.4	0.147	10.6	0.09	1.33	27.61	23.41	332.90
12/22	14	5.00	0.20	11.9	0.21	3.68	0.00	0.00	0.0126	19.0	0.155	11.1	0.10	1.05	28.66	18.35	351.24
12/23	15	4.96	0.20	12.2	0.26	4.10	0.00	0.01	0.0132	19.9	0.164	11.8	0.11	1.29	29.95	20.34	371.58
12/24	16	4.25	0.25	12.2	0.28	4.80	0.00	0.01	0.0137	20.7	0.173	12.4	0.12	1.19	31.14	20.35	391.93
12/25	17	5.71	0.20	12.2	0.23	3.76	0.00	0.01	0.0143	21.6	0.182	13.1	0.12	1.31	32.45	21.42	413.35
12/26	18	5.04	0.20	12.3	0.27	4.52	0.00	0.01	0.0149	22.5	0.192	13.8	0.13	1.36	33.81	22.73	436.08
12/27	19	5.03	0.25	12.5	0.20	3.74	0.00	0.02	0.0154	23.3	0.201	14.4	0.13	1.01	34.82	18.76	454.84
12/28	20	4.93	0.25	12.1	0.32	6.42	0.00	0.02	0.0161	24.3	0.215	15.4	0.13	1.58	36.39	31.55	486.39
12/29	21	4.97	0.20	12.3	0.26	5.24	0.00	0.03	0.0166	25.1	0.226	16.2	0.14	1.29	37.69	25.94	512.33
12/30	22	5.02	0.20	12.6	0.22	4.38	0.00	0.03	0.0171	25.8	0.236	16.9	0.15	1.10	38.79	21.83	534.16
12/31	23	4.95	0.25	12.1	0.20	4.46	0.00	0.03	0.0176	26.6	0.245	17.6	0.15	0.99	39.78	21.92	556.09
1/1	24	4.95	0.15	12.5	0.19	4.08	0.00	0.04	0.0180	27.2	0.254	18.2	0.17	0.94	40.72	20.04	576.13
1/2	25	4.96	0.20	12.4	0.20	4.32	0.00	0.03	0.0184	27.8	0.264	19.0	0.17	0.99	41.71	21.22	597.35
1/3	26	5.03	0.30	12.4	0.16	3.72	0.00	0.05	0.0188	28.4	0.272	19.5	0.17	0.80	42.52	18.56	615.91
1/4	27	4.86	0.30	12.6	0.20	4.46	0.00	0.04	0.0192	29.0	0.281	20.2	0.16	0.97	43.49	21.42	637.33
1/5	28	4.93	0.25	12.3	0.16	3.64	0.00	0.06	0.0195	29.5	0.289	20.7	0.16	0.79	44.28	17.74	655.07
1/6	29	4.95	0.35	12.3	0.15	3.50	0.00	0.05	0.0199	30.1	0.297	21.3	0.15	0.74	45.02	17.02	672.09
1/7	30	4.94	0.25	12.4	0.13	3.20	0.00	0.05	0.0202	30.5	0.303	21.8	0.15	0.64	45.66	15.55	687.65
1/8	31	5.06	0.25	12.4	0.14	3.18	0.01	0.12	0.0205	31.0	0.310	22.3	0.15	0.71	46.37	15.84	703.48
1/9	32	4.91	0.25	12.4	0.14	3.56	0.00	0.07	0.0207	31.3	0.318	22.8	0.15	0.64	47.01	16.87	720.35
1/10	33	4.40	0.25	12.4	0.17	4.12	0.00	0.07	0.0211	31.9	0.326	23.4	0.16	0.75	47.76	17.77	738.12
1/11	34	5.48	0.25	12.2	0.12	2.80	0.00	0.09	0.0214	32.3	0.332	23.8	0.16	0.66	48.41	14.99	753.11
1/12	35	4.47	0.25	11.7	0.26	6.00	0.00	0.03	0.0219	33.1	0.344	24.7	0.16	1.16	49.58	26.36	779.47
1/13	36	5.33	0.20	12.0	0.14	3.30	0.00	0.12	0.0222	33.5	0.352	25.3	0.17	0.75	50.32	17.44	796.90
1/14	37	4.92	0.25	12.1	0.15	3.68	0.00	0.11	0.0225	34.0	0.359	25.8	0.17	0.74	51.06	17.49	814.40
1/15	38	5.00	0.25	12.0	0.11	2.93	0.00	0.15	0.0228	34.4	0.366	26.3	0.17	0.55	51.61	14.09	828.49
1/16	39	4.58	0.25	12.0	0.12	3.10	0.00	0.12	0.0230	34.7	0.372	26.7	0.17	0.55	52.16	13.43	841.92
1/17	40	4.91	0.25	12.0	0.13	3.46	0.00	0.13	0.0233	35.2	0.379	27.2	0.18	0.64	52.80	16.38	858.30
1/18	41	5.07	0.25	11.9	0.12	2.94	0.00	0.15	0.0236	35.6	0.385	27.6	0.18	0.61	53.41	14.24	872.54
1/19	42	4.43	0.25	12.2	0.13	3.36	0.00	0.14	0.0238	36.0	0.391	28.1	0.18	0.58	53.98	14.12	886.66
1/20	43	5.49	0.25	11.9	0.10	2.79	0.00	0.18	0.0241	36.4	0.398	28.6	0.18	0.55	54.53	14.60	901.26
1/21	44	5.02	0.20	12.0	0.09	2.56	0.00	0.19	0.0243	36.7	0.403	28.9	0.19	0.45	54.98	11.93	913.19
1/22	45	4.99	0.25	11.9	0.10	2.61	0.00	0.20	0.0245	37.0	0.408	29.3	0.19	0.50	55.48	12.05	925.25
1/23	46	5.02	0.25	12.3	0.09	2.40	0.00	0.22	0.0247	37.3	0.413	29.6	0.19	0.45	55.93	11.03	936.28
1/24	47	4.90	0.25	12.1	0.10	2.76	0.00	0.22	0.0249	37.6	0.419	30.1	0.19	0.49	56.42	12.40	948.68
1/25	48	4.95	0.20	11.8	0.09	2.49	0.00	0.24	0.0251	37.9	0.424	30.4	0.20	0.45	56.87	11.20	959.88
1/26	49	5.02	0.20	11.9	0.08	2.41	0.00	0.27	0.0253	38.2	0.428	30.7	0.21	0.40	57.27	10.87	970.76
1/27	50	4.90	0.25	11.9	0.09	2.53	0.00	0.29	0.0255	38.5	0.433	31.1	0.21	0.44	57.71	11.02	981.78
1/28	51	5.03	0.25	12.0	0.07	2.62	0.00	0.33	0.0256	38.7	0.438	31.4	0.21	0.35	58.07	11.70	993.48
1/29	52	4.98	0.25	11.4	0.08	2.63	0.00	0.35	0.0258	39.0	0.443	31.8	0.21	0.40	58.46	11.41	1004.89

3439 P-20

Ore Charge				NaCN added	123.56	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	0.50	lb/ton ore				Au	Ag
66.09	kg	0.066	mt								
145.70	lb	0.073	ton		12.0	lbs Cement/ton of ore			Avg. Head	0.084	1.50
									Head Screen	0.0692	1.62
									Tail Screen	0.0331	0.756
									Tail Assay		

Daily Column Leach Test Data,

Sample I.D. PC10-07, 08 (Core)

Test Conditions,

Feed Size, 80% minus 1/2"

		Pregnant Solution Analyses					Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
1/30	53	5.00	0.25	11.9	0.07	2.40	0.00	0.34	0.0260	39.3	0.448	32.2	0.21	0.35	58.81	10.22	1015.11
1/31	54	4.93	0.20	11.7	0.08	2.37	0.00	0.32	0.0261	39.4	0.452	32.4	0.22	0.39	59.21	9.95	1025.06
2/1	55	4.98	0.21	11.7	0.07	2.09	0.00	0.35	0.0263	39.7	0.456	32.7	0.23	0.35	59.56	8.78	1033.83
2/2	56	4.80	0.20	12.0	0.08	2.50	0.00	0.34	0.0265	40.0	0.461	33.1	0.24	0.38	59.94	10.22	1044.05
2/3	57	5.07	0.25	11.9	0.06	1.94	0.00	0.38	0.0266	40.2	0.464	33.3	0.24	0.30	60.24	8.10	1052.15
2/4	58	4.78	0.25	11.9	0.06	2.09	0.00	0.35	0.0267	40.3	0.468	33.6	0.24	0.29	60.53	8.05	1060.20
2/5	59	5.16	0.25	12.1	0.06	2.10	0.00	0.43	0.0269	40.6	0.472	33.9	0.24	0.31	60.84	9.05	1069.25
2/6	60	5.03	0.20	11.8	0.07	2.17	0.00	0.46	0.0270	40.8	0.476	34.2	0.25	0.35	61.19	8.72	1077.97
2/7	61	2.24	0.25	11.8	0.11	3.51	0.00	0.41	0.0271	40.9	0.479	34.4	0.25	0.25	61.44	6.61	1084.59
2/8	62	5.20	0.25	12.0	0.08	2.34	0.00	0.52	0.0273	41.2	0.483	34.7	0.25	0.42	61.86	10.08	1094.66
2/9	63	4.98	0.25	11.8	0.06	2.20	0.00	0.55	0.0274	41.4	0.487	35.0	0.25	0.30	62.15	8.30	1102.97
2/10	64	5.02	0.25	11.9	0.06	2.07	0.00	0.59	0.0276	41.7	0.490	35.2	0.25	0.30	62.46	7.59	1110.55
2/11	65	4.95	0.25	11.9	0.06	2.04	0.00	0.53	0.0277	41.8	0.493	35.4	0.25	0.30	62.75	7.09	1117.64
2/12	66	4.88	0.25	11.7	0.06	2.07	0.01	0.60	0.0278	42.0	0.497	35.7	0.26	0.29	63.05	7.40	1125.04
2/13	67	4.98	0.20	11.7	0.06	2.14	0.00	0.66	0.0279	42.1	0.500	35.9	0.27	0.25	63.29	7.60	1132.64
2/14	68	4.87	0.25	11.7	0.06	2.31	0.00	0.64	0.0281	42.4	0.503	36.1	0.27	0.29	63.59	7.88	1140.52
2/15	69	4.92	0.15	11.8	0.06	2.11	0.00	0.72	0.0282	42.6	0.506	36.3	0.28	0.30	63.88	7.12	1147.64
2/16	70	4.42	0.25	11.6	0.06	2.29	0.00	0.62	0.0283	42.7	0.509	36.5	0.29	0.27	64.15	6.45	1154.09
2/17	71	4.98	0.25	11.6	0.06	2.28	0.00	0.73	0.0284	42.9	0.513	36.8	0.29	0.30	64.44	8.19	1162.28
2/18	72	5.15	0.20	11.7	0.05	2.05	0.00	0.86	0.0286	43.2	0.516	37.0	0.30	0.26	64.70	6.83	1169.12
2/19	73	5.40	0.20	11.7	0.04	1.89	0.00	0.90	0.0287	43.4	0.519	37.3	0.30	0.22	64.92	5.82	1174.94
2/20	74	4.90	0.25	11.6	0.05	2.42	0.00	0.95	0.0288	43.5	0.522	37.5	0.30	0.25	65.16	7.27	1182.20
2/21	75	5.07	0.25	11.6	0.05	2.33	0.00	1.00	0.0289	43.7	0.525	37.7	0.31	0.25	65.42	6.97	1189.17
2/22	76	4.87	0.20	11.6	0.05	2.21	0.00	0.94	0.0290	43.8	0.527	37.8	0.31	0.24	65.66	5.66	1194.83
2/23	77		Rest Cycle														
3/8	90																
3/9	91	5.21	0.15	11.3	0.26	7.44	0.00	0.04	0.0296	44.7	0.544	39.1	0.33	1.35	67.01	38.76	1233.60
3/10	92	5.19	0.20	11.6	0.10	2.92	0.00	0.01	0.0298	45.0	0.551	39.6	0.34	0.52	67.53	14.95	1248.55
3/11	93	5.03	0.20	11.7	0.07	1.76	0.00	0.02	0.0300	45.3	0.555	39.8	0.35	0.35	67.89	8.80	1257.35
3/12	94	4.99	0.20	11.6	0.06	1.64	0.00	0.02	0.0301	45.5	0.558	40.1	0.35	0.30	68.19	8.08	1265.43
3/13	95	5.02	0.25	11.6	0.05	1.42	0.00	0.02	0.0302	45.6	0.562	40.3	0.35	0.25	68.44	7.03	1272.46
3/14	96	5.03	0.15	11.4	0.05	1.33	0.00	0.03	0.0303	45.8	0.564	40.5	0.37	0.25	68.69	6.59	1279.05
3/15	97	4.89	0.25	11.6	0.05	1.34	0.00	0.04	0.0304	45.9	0.567	40.7	0.37	0.24	68.93	6.40	1285.45
3/16	98		Rest Cycle														
3/29	111																
3/30	112	4.66	0.15	11.8	0.23	5.45	0.00	0.06	0.0309	46.7	0.579	41.6	0.39	1.07	70.00	25.40	1310.84
3/31	113	5.07	0.25	11.4	0.08	2.06	0.00	0.07	0.0311	47.0	0.583	41.9	0.39	0.41	70.41	10.14	1320.98
4/1	114	4.98	0.20	11.3	0.05	1.50	0.00	0.06	0.0312	47.1	0.586	42.1	0.40	0.25	70.66	7.11	1328.09
4/2	115	4.95	0.20	11.1	0.06	1.57	0.00	0.07	0.0313	47.3	0.589	42.3	0.41	0.30	70.96	7.47	1335.56
4/3	116	5.08	0.25	11.4	0.04	1.08	0.00	0.07	0.0314	47.4	0.592	42.5	0.41	0.20	71.16	5.13	1340.69
4/4	117	4.96	0.20	11.3	0.04	1.20	0.00	0.07	0.0315	47.6	0.594	42.6	0.42	0.20	71.36	5.60	1346.28
4/5	118	4.68	0.15	11.2	0.05	1.22	0.00	0.09	0.0316	47.7	0.597	42.9	0.43	0.23	71.59	5.35	1351.64
4/6	119		Rest Cycle														
4/19	132																
4/20	133	4.87	0.10	11.3	0.16	4.07	0.00	0.12	0.0319	48.2	0.605	43.4	0.46	0.78	72.37	19.82	1371.46
4/21	134	4.87	0.20	11.6	0.08	2.15	0.00	0.13	0.0321	48.5	0.610	43.8	0.47	0.39	72.76	9.86	1381.32
4/22	135	5.11	0.20	11.6	0.05	1.37	0.00	0.14	0.0322	48.6	0.612	43.9	0.48	0.26	73.02	6.34	1387.65
4/23	136	4.97	0.25	11.2	0.04	1.25	0.00	0.13	0.0323	48.8	0.615	44.1	0.48	0.20	73.21	5.50	1393.15
4/24	137	5.07	0.25	11.0	0.06	1.16	0.00	0.16	0.0324	48.9	0.617	44.3	0.48	0.30	73.52	5.22	1398.37
4/25	138	4.78	0.15	11.1	0.06	1.51	0.00	0.15	0.0326	49.2	0.620	44.5	0.49	0.29	73.81	6.40	1404.77
4/26	139	5.11	0.20	10.9	0.01	0.99	0.00	0.16	0.0326	49.2	0.622	44.7	0.50	0.05	73.86	4.29	1409.07
4/27	140		Rest Cycle														

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Ore Charge				NaCN added	123.56	g	NaCN	0.50	lb/ton solution	oz/ton ore	
				NaCN Consumption	0.50	lb/ton ore				Au	Ag
66.09	kg	0.066	mt								
145.70	lb	0.073	ton		12.0	lbs Cement/ton of ore			Avg. Head	0.084	1.50
									Head Screen	0.0692	1.62
									Tail Screen	0.0331	0.756
									Tail Assay		

Daily Column Leach Test Data,

Sample I.D. PC10-07, 08 (Core)

Test Conditions,

Feed Size, 80% minus 1/2"

			Pregnant Solution Analyses				Barren Solution Analyses		Au Extraction		Ag Extraction		NaCN	Au		Ag	
			NaCN														
Date	Days Leached	Vol. l.	Conc. g/l	pH	Au ppm	Ag ppm	Au ppm	Ag ppm	Cum. oz/ton	Cum. %	Cum. oz/ton	Cum. %	Consumed lb/ton	mg	cum. mg	mg	cum. mg
5/10	153																
5/11	154	4.56	0.10	11.7	0.16	3.86	0.00	0.15	0.0329	49.7	0.630	45.2	0.53	0.73	74.59	17.60	1426.67
			Rinse Cycle														
5/12	155	5.07	0.05	11.8	0.03	0.92	0.00	0.27	0.0330	49.8	0.632	45.4	0.53	0.15	74.74	4.66	1431.33
5/13	156	5.14	0.00	11.1	0.00	0.68	0.00	0.17	0.0330	49.8	0.633	45.4	0.51	0.00	74.74	2.12	1433.45
5/14	157	4.93	0.00	11.0	0.00	0.67	0.00	0.38	0.0330	49.8	0.634	45.5	0.51	0.00	74.74	3.30	1436.75
5/15	158	5.05	0.00	11.1	0.04	0.69	0.00	0.29	0.0331	50.0	0.636	45.7	0.50	0.20	74.94	3.48	1440.24
5/16	159	5.01	0.00	11.9	0.02	0.59	0.00	0.15	0.0331	50.0	0.637	45.7	0.50	0.10	75.04	2.96	1443.19
			Drain Down														

Extracted, oz/ton of ore	**0.0331**	**50.0**	**0.637**	**45.7**
Estimated Tail , oz/ton of ore	**0.0331**		**0.756**	
Calculated Head, oz/ton of ore	**0.0662**		**1.393**	