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COUNTY	Pershing
If different from written on document	
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AUTHOR	Booth, B; Brown, A; Fudge, T; Cameron, D; Hartman, S; Walker P. Walde, L; Kaufman, R; Miller, C.; Stilwell, J; Summers, A; Mullin, J; Wilson E; Wollant, D; Dean D; Santti, S; Tempel T; Shumway L; Lisle R. Clayton R, Dunston J; Johnson G Vance R Allen K
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P_M_C_NAME (mine, claim & company names)	Rosebud Mine; Hecla Mining Co.; Newmont Gold Co., Rosebud Mining Co. LLC; Pinion Mill
COMMODITY	gold; silver
If not obvious	
NOTES	Monthly progress report; production; correspondence; statements of operation; settlement sheet; assays
	47 p.

Keep docs at about 250 pages if no oversized maps attached
(for every 1 oversized page (>11x17) with text reduce
the amount of pages by ~25)

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HECLA MINING COMPANY

February 12, 1999

MEMORANDUM TO: George Johnson
FROM: Ron Clayton
SUBJECT: Monthly Progress Report
Rosebud Mine – January 1999

Attached is the January 1999 Monthly Progress Report for the Rosebud Mine.

RWC:lmz,clp
Attachments

cc: Bill Booth
Arthur Brown
Tom Fudge
Don Cameron
Scott Hartman
Lewis Walde
Roger Kauffman - JV Mgmt. Committee
Cindy Miller
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P.O. Box 69
Golconda, NV 89414
Rick Lisle - Manager for Exploration Newmont Exploration Limited
861 West Sixth St.
Winnemucca, NV 89445
Lee Shumway – Controller Newmont Gold Company
555 5th St.
Elko, NV 89801
Jim Mullin – Sr. Vice President Newmont Gold Company
555 5th St.
Elko, NV 89801

♦ Hecla Mining Company Rosebud Mine January Monthly Report

MINE PERSONNEL AND SAFETY

Staff

During the month seven hourly employees were terminated, including one retirement. We have 69 hourly employees. One salary employee was terminated and one was hired. Salary employment is 27. Total employment is 96.

Safety

Rosebud started 1999 with no injuries in the month of January. MSHA was on the property for their quarterly inspection and we only received one non-S&S citation, which was for a loose guard at the batch plant. Two previous citations, one for dust and one for the haulage road, were terminated. Rosebud employees have worked 494 days without a MSHA lost-time injury.

OPERATIONS

Development

The development crews advanced the 41 stope access 348 feet, and a panel extension in stope 43 was extended 33 feet. A total of 381 feet of development drift was driven in January.

Production

Production from stope #13 was 822 tons at a gold grade of .455 opt and a silver grade of 4.10 opt.

Production from stope #14 was 4,090 tons at a gold grade of .280 opt and a silver grade of 3.58.

Production from stope #22 was 1,684 tons at a gold grade of .252 opt and a silver grade of 3.85 opt.

Production from stope #23 was 2,930 tons at a gold grade of 1.20 opt and a silver grade of 5.68 opt.

Production from stope #24 was 3,643 tons at a gold grade of .928 opt and a silver grade of 1.84 opt.

Production from stope #25 was 3,579 tons at a gold grade of 1.287 opt and a silver grade of 1.58 opt.

Production from stope #43 was 3538 tons at a gold grade of .326 opt and a silver grade of 0.53 opt.

An additional 6,963 tons of waste at a gold grade of .073 opt was mined from the stopes and sorted to the waste pile. We sorted 1,818 tons of that waste and stockpiled it as a leach test material. Those tons had a gold grade of .099 opt.

♦ Hecla Mining Company Rosebud Mine January Monthly Report

Total ore stockpiled at month's end was 20,286 tons grading .772 Au opt and 2.75 opt. silver. Shipment of this material to the Pinon Mill began on January 18.

GEOLOGY

Production

Mine calculated (geology) tonnage and grade for ore shipped during January (December's production – January's milling) underestimated the survey tonnage by 2,061 tons (7.8%) and outperformed (overestimated) the model gold ounces by 7,050 ounces (110.9%).

Development

Development drilling for 1999 will begin in the Stope 25 area during the first week of February.

Reserves

South zone year end reconciliation and updated East zone resource and reserve was completed during the month. Work continues on an updated North zone resource and reserve expected to be complete by the end of February 1999.

Exploration

Newmont Gold's January exploration report is attached.

QA/QC

Beginning during the month of January, all Qa/Qc data will be reported separately.

ENGINEERING

Mine Planning

Stope 23 was a couple of rounds short of being exhausted at month's end. Stope 21 is exhausted. We are now mining in the last cut of Stopes 14, 22, & 24, as well. The stope planning on the East Zone was completed and the mineable reserves were calculated. Mining in Stope 43 in the East Zone has begun with success and is producing results that are similar to the predicted model.

Ventilation

The fan arrived for the 31 Vent Raise (8' Ø bored raise). Work began on the bulkhead and fan installation.

♦ Hecla Mining Company Rosebud Mine January Monthly Report

Environmental

The following reports were prepared and sent to the appropriate agencies:

Water Pollution Control Quarterly Report
Water Pollution Control Annual Report
Wildlife Mortality Quarterly Report
Fire Marshall Annual Permit Application
Air Quality Annual Emissions Report
Nevada Mines Registry Report
Division of Water Resources Monthly Report

Extensions of Time were filed on behalf of the Jungo Road water rights in order to finalize the usage numbers for the upcoming summer season (the period of heaviest use). Gary Gamble was here for a day to review the environmental work; in particular, the new TRI requirements and to offer his assistance. There was a very brief inspection by the State for the Water Pollution Control Permit, which went well. The State is still working on the renewal of that permit. There were no permit exceedances for the month.

Batch Plant

A total of 17,226 tons of cemented backfill was placed in the mine during the month. The fill amount and locations for each stope are listed below:

Location	High Strength (10% cement)	Medium Strength (4% cement)	Low Strength (3% cement)	Total
Stope 14		3,137 tons	1,537 tons	4,674 tons
Stope 22		798 tons	4,855 tons	5,653 tons
Stope 23		2,317 tons		2,317 tons
Stope 24		2,414 tons	469 tons	2,883 tons
Stope 25		1,536 tons	163 tons	1,699 tons
Total	0 tons	10,202 tons	7,024 tons	17,226 tons

♦ Hecla Mining Company Rosebud Mine January Monthly Report

Other

The department continued with assisting on the mine planning for the Greens Creek project. The electrical planning for the year (and most likely the remainder of the mine life) was completed. No additional purchases for substations, pump skids, or fans are required. One person has been off since the middle of the month for a non-occupational injury.

PERFORMANCE

Capitalized costs for the month totaled \$99,818 associated with the 31-ventilation raise.

The mine produced 20,286 ore tons during January, 5,617 less than budget. The gold grade mined was 0.722 opt, 0.340 more than budget. The silver grade was 2.75 opt, which was 0.47 higher than budget.

During January, the mill recovered 8,947 gold ounces and 47,586 silver ounces, 500 more gold ounces and 15,088 more silver ounces than budget. Recoveries during the month were 94.5% for gold and 57.5% for silver, which is 1.5% worse and 2.5% better than budget, respectively.

Production costs for January totaled \$1,366,804 (\$67.37 per ore ton mined), \$664,897 less than budget (\$11.05 per ore ton better than budget).

Exploration costs for January totaled \$26,439, 10,461 less than budget.

The per gold ounce produced costs achieved during January were:

- | | | |
|--|-----------|---------------------------|
| • Cash operating cost per gold ounce | \$ 127.24 | \$ 94.48 less than budget |
| • Total cash cost per gold ounce | \$ 145.30 | \$ 92.16 less than budget |
| • Total production cost per gold ounce | \$ 217.83 | \$ 91.19 more than budget |

The Rosebud Mining Company, LLC (HMC, operator)
Statements of Operations - Variances to Budget (LLC Agreement Basis of Accounting)

January 1999	MONTH			QUARTER TO DATE			YEAR TO DATE		
	Actual	Budget	Variance	Actual	Budget	Variance	Actual	Budget	Variance
	\$	\$	\$	\$	\$	\$	\$	\$	\$
Gross production value (GPV)	\$ 2,814,024	\$ 2,712,839	\$ 101,185	\$ 2,814,024	\$ 2,712,839	\$ 101,185	\$ 2,814,024	\$ 2,712,839	\$ 101,185
Less: Euro Nevada royalty	(112,561)	(108,514)	(4,047)	(112,561)	(108,514)	(4,047)	(112,561)	(108,514)	(4,047)
Less: Shipping and refining	(14,798)	(16,378)	1,580	(14,798)	(16,378)	1,580	(14,798)	(16,378)	1,580
Net production value	2,686,665	2,587,947	98,718	2,686,665	2,587,947	98,718	2,686,665	2,587,947	98,718
Cost of production									
Mine production costs	541,072	543,963	2,891	541,072	543,963	2,891	541,072	543,963	2,891
Fixed mining costs	207,703	200,075	(7,628)	207,703	200,075	(7,628)	207,703	200,075	(7,628)
L.L.C. Development	51,170	178,500	127,330	51,170	178,500	127,330	51,170	178,500	127,330
Milling costs	259,423	480,342	220,919	259,423	480,342	220,919	259,423	480,342	220,919
Trucking and site processing	198,811	273,318	74,507	198,811	273,318	74,507	198,811	273,318	74,507
Site and general administration	194,008	239,725	45,717	194,008	239,725	45,717	194,008	239,725	45,717
Geology	50,112	40,100	(10,012)	50,112	40,100	(10,012)	50,112	40,100	(10,012)
Delineation drilling	-	10,000	10,000	-	10,000	10,000	-	10,000	10,000
Engineering	30,356	35,800	5,444	30,356	35,800	5,444	30,356	35,800	5,444
Change in ore stockpile and in-circuit inventory	(165,851)	29,878	195,729	(165,851)	29,878	195,729	(165,851)	29,878	195,729
Total cost of production	1,366,804	2,031,701	664,897	1,366,804	2,031,701	664,897	1,366,804	2,031,701	664,897
Other costs									
Property taxes	7,500	10,000	2,500	7,500	10,000	2,500	7,500	10,000	2,500
Net proceeds taxes	48,958	24,491	(24,467)	48,958	24,491	(24,467)	48,958	24,491	(24,467)
Reclamation expense	27,501	25,556	(1,945)	27,501	25,556	(1,945)	27,501	25,556	(1,945)
Interest (income)	(4,989)	(6,500)	(1,511)	(4,989)	(6,500)	(1,511)	(4,989)	(6,500)	(1,511)
(Gain) loss on the sale of fixed assets	-	-	-	-	-	-	-	-	-
Depreciation	621,474	578,923	(42,551)	621,474	578,923	(42,551)	621,474	578,923	(42,551)
Total other costs	700,444	632,470	(67,974)	700,444	632,470	(67,974)	700,444	632,470	(67,974)
Total operating costs	2,067,248	2,664,171	596,923	2,067,248	2,664,171	596,923	2,067,248	2,664,171	596,923
Exploration expenditures	26,439	36,900	10,461	26,439	36,900	10,461	26,439	36,900	10,461
Discretionary expenditures	-	-	-	-	-	-	-	-	-
Total costs	2,093,687	2,701,071	607,384	2,093,687	2,701,071	607,384	2,093,687	2,701,071	607,384
Net income (loss) to Exhibit B	\$ 592,978	\$ (113,124)	\$ 706,102	\$ 592,978	\$ (113,124)	\$ 706,102	\$ 592,978	\$ (113,124)	\$ 706,102
Cash operating cost per gold ounce	\$127.24	\$221.72	\$94.48	\$127.24	\$221.72	\$94.48	\$127.24	\$221.72	\$94.48
Total cash costs per gold ounce	\$145.30	\$237.46	\$92.16	\$145.30	\$237.46	\$92.16	\$145.30	\$237.46	\$92.16
Total production costs per gold ounce	\$217.83	\$309.02	\$91.19	\$217.83	\$309.02	\$91.19	\$217.83	\$309.02	\$91.19
Summary of Production									
Tons of ore mined:	20,286	25,903	(5,617)	20,286	25,903	(5,617)	20,286	25,903	(5,617)
Gold - ounces per ton	0.722	0.340	0.382	0.722	0.340	0.382	0.722	0.340	0.382
Silver - ounces per ton	2.75	2.28	0.47	2.75	2.28	0.47	2.75	2.28	0.47
Tons of ore milled:	24,521	25,903	(1,382)	24,521	25,903	(1,382)	24,521	25,903	(1,382)
Gold - ounces per ton	0.471	0.340	0.131	0.471	0.340	0.131	0.471	0.340	0.131
Silver - ounces per ton	3.34	2.28	1.06	3.34	2.28	1.06	3.34	2.28	1.06
Mill recovery rate - gold	94.5%	96.0%	-1.5%	94.5%	96.0%	-1.5%	94.5%	96.0%	-1.5%
Mill recovery rate - silver	57.5%	55.0%	2.5%	57.5%	55.0%	2.5%	57.5%	55.0%	2.5%
Products produced:									
Gold - ounces	8,947	8,447	500	8,947	8,447	500	8,947	8,447	500
Silver - ounces	47,586	32,498	15,088	47,586	32,498	15,088	47,586	32,498	15,088
Adjustment to products produced:									
Gold - ounces	-	-	-	-	-	-	-	-	-
Silver - ounces	-	-	-	-	-	-	-	-	-
Employees at end of period:									
Hourly	69	75	6	69	75	6	69	74	5
Salary	27	27	-	27	27	-	27	26	(1)
Capitalized expenditures	\$ 99,818	\$ 50,000	\$ (49,818)	\$ 99,818	\$ 50,000	\$ (49,818)	\$ 99,818	\$ 50,000	\$ (49,818)

The Rosebud Mining Company, LLC (HMC, operator)
Statements of Operations - Variances to Budget (LLC Agreement Basis of Accounting)

January 1999	MONTH			QUARTER TO DATE			YEAR TO DATE		
	Actual	Budget	Variance	Actual	Budget	Variance	Actual	Budget	Variance
	\$	\$	\$	\$	\$	\$	\$	\$	\$
Gross production value (GPV)	\$ 138.72	\$ 104.73	\$ 33.99	\$ 138.72	\$ 104.73	\$ 33.99	\$ 138.72	\$ 104.73	\$ 33.99
Less: Euro Nevada royalty	(5.55)	(4.19)	(1.36)	(5.55)	(4.19)	(1.36)	(5.55)	(4.19)	(1.36)
Less: Shipping and refining	(0.73)	(0.63)	(0.10)	(0.73)	(0.63)	(0.10)	(0.73)	(0.63)	(0.10)
Net production value	<u>132.44</u>	<u>99.91</u>	<u>32.53</u>	<u>132.44</u>	<u>99.91</u>	<u>32.53</u>	<u>132.44</u>	<u>99.91</u>	<u>32.53</u>
Cost of production									
Mine production costs	26.67	21.00	(5.67)	26.67	21.00	(5.67)	26.67	21.00	(5.67)
Fixed mining costs	10.24	7.72	(2.52)	10.24	7.72	(2.52)	10.24	7.72	(2.52)
L.L.C. Development	2.52	6.89	4.37	2.52	6.89	4.37	2.52	6.89	4.37
Milling costs	12.79	18.54	5.75	12.79	18.54	5.75	12.79	18.54	5.75
Trucking and site processing	9.80	10.55	0.75	9.80	10.55	0.75	9.80	10.55	0.75
Site and general administration	9.56	9.25	(0.31)	9.56	9.25	(0.31)	9.56	9.25	(0.31)
Geology	2.47	1.55	(0.92)	2.47	1.55	(0.92)	2.47	1.55	(0.92)
Delineation drilling	-	0.39	0.39	-	0.39	0.39	-	0.39	0.39
Engineering	1.50	1.38	(0.12)	1.50	1.38	(0.12)	1.50	1.38	(0.12)
Change in ore stockpile and in-circuit inventory	(8.18)	1.15	9.33	(8.18)	1.15	9.33	(8.18)	1.15	9.33
Total cost of production	<u>67.37</u>	<u>78.42</u>	<u>11.05</u>	<u>67.37</u>	<u>78.42</u>	<u>11.05</u>	<u>67.37</u>	<u>78.42</u>	<u>11.05</u>
Other costs									
Property taxes	0.37	0.39	0.02	0.37	0.39	0.02	0.37	0.39	0.02
Net proceeds taxes	2.41	0.95	(1.46)	2.41	0.95	(1.46)	2.41	0.95	(1.46)
Reclamation expense	1.36	0.99	(0.37)	1.36	0.99	(0.37)	1.36	0.99	(0.37)
Interest (income)	(0.25)	(0.25)	-	(0.25)	(0.25)	-	(0.25)	(0.25)	-
(Gain) loss on the sale of fixed assets	-	-	-	-	-	-	-	-	-
Depreciation	30.64	22.35	(8.29)	30.64	22.35	(8.29)	30.64	22.35	(8.29)
Total other costs	<u>34.53</u>	<u>24.43</u>	<u>(10.10)</u>	<u>34.53</u>	<u>24.43</u>	<u>(10.10)</u>	<u>34.53</u>	<u>24.43</u>	<u>(10.10)</u>
Total operating costs	<u>101.90</u>	<u>102.85</u>	<u>0.95</u>	<u>101.90</u>	<u>102.85</u>	<u>0.95</u>	<u>101.90</u>	<u>102.85</u>	<u>0.95</u>
Exploration expenditures	1.30	1.42	0.12	1.30	1.42	0.12	1.30	1.42	0.12
Discretionary expenditures	-	-	-	-	-	-	-	-	-
Total costs	<u>103.20</u>	<u>104.27</u>	<u>1.07</u>	<u>103.20</u>	<u>104.27</u>	<u>1.07</u>	<u>103.20</u>	<u>104.27</u>	<u>1.07</u>
Net income (loss) to Exhibit B	<u>\$ 29.24</u>	<u>\$ (4.36)</u>	<u>\$ 33.60</u>	<u>\$ 29.24</u>	<u>\$ (4.36)</u>	<u>\$ 33.60</u>	<u>\$ 29.24</u>	<u>\$ (4.36)</u>	<u>\$ 33.60</u>
Cash operating cost per gold ounce	\$ 127.24	\$ 221.72	\$ 94.48	\$ 127.24	\$ 221.72	\$ 94.48	\$ 127.24	\$ 221.72	\$ 94.48
Total cash costs per gold ounce	\$ 145.30	\$ 237.46	\$ 92.16	\$ 145.30	\$ 237.46	\$ 92.16	\$ 145.30	\$ 237.46	\$ 92.16
Total production costs per gold ounce	\$ 217.83	\$ 309.02	\$ 91.19	\$ 217.83	\$ 309.02	\$ 91.19	\$ 217.83	\$ 309.02	\$ 91.19
Summary of Production									
Tons of ore mined:									
Gold - ounces per ton	0.722	0.340	0.382	0.722	0.340	0.382	0.722	0.340	0.382
Silver - ounces per ton	2.75	2.28	0.47	2.75	2.28	0.47	2.75	2.28	0.47
Tons of ore milled:									
Gold - ounces per ton	0.471	0.340	0.131	0.471	0.340	0.131	0.471	0.340	0.131
Silver - ounces per ton	3.34	2.28	1.06	3.34	2.28	1.06	3.34	2.28	1.06
Mill recovery rate - gold	94.5%	96.0%	-1.5%	94.5%	96.0%	-1.5%	94.5%	96.0%	-1.5%
Mill recovery rate - silver	57.5%	55.0%	2.5%	57.5%	55.0%	2.5%	57.5%	55.0%	2.5%
Products produced:									
Gold - ounces	8,947	8,447	500	8,947	8,447	500	8,947	8,447	500
Silver - ounces	47,586	32,498	15,088	47,586	32,498	15,088	47,586	32,498	15,088
Adjustment to products produced:									
Gold - ounces	-	-	-	-	-	-	-	-	-
Silver - ounces	-	-	-	-	-	-	-	-	-
Employees at end of period:									
Hourly	69	75	6	69	75	6	69	74	5
Salary	27	27	-	27	27	-	27	26	(1)
Capitalized expenditures	\$ 99,818	\$ 50,000	\$ (49,818)	\$ 99,818	\$ 50,000	\$ (49,818)	\$ 99,818	\$ 50,000	\$ (49,818)

**Newmont Gold Company
Rosebud Mining Company LLC**

To: Ron Clayton
cc: Kurt Allen
Don Cameron

Date: February 10, 1999

Fr: R. B. Vance

Subj: Rosebud Monthly Report: January, 1999

Geology

More than two dozen exploration targets are currently recognized across the Rosebud claim block. The targets are based on hydrothermal alteration (silicification, argillization), rock or soil geochemistry, previous drill hole results, coincident geochemical and IP anomalies, and conceptual ideas relating to favorable stratigraphy and major faults. A standardized form was constructed that lists criteria for various categories (e.g., geology, potential size, proximity to the mine), and each prospect was compiled and evaluated. Informal presentations were made to a panel of multi-disciplinary judges from Newmont and Hecla across two days. At the end of the session, the targets were ranked, resulting in a consensus work program for 1999. A target report will be compiled that documents the ranking process.

The highest-ranking prospects are Near-mine targets, Mother Lode/E. Dreamland/Gold Hill, White Alps, School Bus Canyon, Deep Dreamland, Degerstrom, Valley/Cave fault, Lucky Boy, Chance, Gator, and Brown Palace. At this time, work on South Kamma, Vertex, Wild Rose, Oscar, Short Shot, South Ridge, and Barrel Springs is deferred.

The near-mine targets assembled by Newmont and Hecla staff were also presented and discussed. These targets offer potential for discovering ore adjacent the mine, and will be pursued beginning this month via an underground drilling program executed by Rosebud Mining Co. They include high-grade RC intercepts in the hanging wall of the South Ridge fault (SRF) at the Far East target, apparent feeder structures beneath the East Zone (24 structure and others), and silicified and mineralized carbonaceous phyllite in Mesozoic basement. Flat underground holes will test for steeply dipping mineralized structures that acted as conduits for hydrothermal fluids. The budget will be reallocated to provide additional funds (~25%?) to test these underground targets.

Geochemistry

After presentation of Robert Jackson's geochemistry level plans of the Rosebud deposits, the need is obvious for overlays showing geologic shapes on each respective level. The possibility of primary lithologic control on the geochemical model warrants investigation.

Drilling

Final assays for DRSU-454 (+11, 091°), drilled east from the 2300 access drill station, failed to intersect significant mineralization. Narrow mineralized structures were present within moderate alteration, but gold values were less than 0.02 oz/st.

Near-Mine Exploration

Hecla's underground drill and geology database were downloaded from Surpac into Geomodel. Expansion of the mine model outward to the adjacent exploration holes will help identify new exploration targets within reach of the mine workings.

Permitting

A final 1998 disturbance and reclamation map was completed for filing with the BLM. The map depicts drill sites, roads, and trenches that were constructed and reclaimed during the year within the Exploration Plan of Operation boundary.

Administrative

The project expenditure for January was \$26,439, against a budget of \$36,900.

ROSEBUD JOINT VENTURE MEMORANDUM

TO: JIM DUNSTAN
FROM: DALE R. DEAN
SUBJECT: JANUARY 1999 MONTHLY REPORT
DATE: FEBRUARY 4, 1999
CC: RON CLAYTON

SUMMARY

Rosebud lot 99001 was campaigned through Pinon mill from January 5th through January 18th for a total run time of 12.91 days at 94.2% total availability. Downtime included 33 minutes for a primary cyclone vortex replacement and 23 minutes to repair the apron feeder nuclear device resulting in a mechanical availability of 99.7%. Operational downtime included 15 hours 17 minutes for a SAG mill overload resulting in plugged cyclones, 1 hour 22 minutes for 3 SAG mill grind outs, 21 minutes for 1 SAG feed chute plugs and 5 plugged apron feeder / feed hopper resulting in an operational availability of 94.5%. This resulted in an average throughput rate of 84.03 dry short tons per hour or 2016.7 dry short tons per day for the run. Processed ore of 24,521.4 dry short tons averaged 0.443 Au oz/st and 3.303 Ag oz/st based on the TCO sampler head grade reported on the metallurgical balance sheet. A reconciled head grade based on poured metal, change in inventory and ounces lost to tails calculated as 0.456 Au oz/st and 2.895 Ag oz/st. Back calculated contained head values were 11,191.2 Au ounces and 70,984.4 Ag ounces, which yield a recovery of 94.3 % Au and 50.9 % Ag, based on final reconciliation. Poured metal was settled at 8,584.78 Au ounces and 36,617.35 Ag ounces.

Metallurgical balance head ounces and mine estimated head ounces Vs poured metal back calculated head ounces variance was as follows:

	Au	Au Var.	Ag	Ag Var.
Met Balance (Contained Oz's)	10611.4	(5.2%)	80989.5	(12.4%)
Mine Estimate (Contained Oz's)	12401.0	9.8%	92280.0	23.1%
Back Calc (Poured Metal)	11191.2		70984.4	

February Forecast

21,107 Dry Short Tons at 0.740 Au opt and 3.900 Ag opt. Gold and silver recovery for the lot will be 96% and 60% respectively, which will yield 14,994 gold ozs and 49,390 silver ozs

Circuit Highlights

Grinding

The average grind for December milling was 86.1% passing -200 mesh based on laboratory determination of 12-hour shift composites. Shift composites for % solids ranged from 24.35 to 32.06% with an average of 27.78% for the run. On January 8th the SAG mill went into a “free wheel” overload. The density and viscosity were high enough to pack the lifters with solids. Without lift the SAG load becomes static and the mill fills with material until it reaches centerline of the discharge grates and exits the mill. In hindsight, there were many signs that this was happening, such as the horsepower dropping and mill density / load increasing at the same time feed tonnage was increased and feed water was cut back. The real problem occurred when the coarse material exiting the SAG mill continued through the circuit and plugged the cyclone clusters. Over 15 hours of down time was consumed cleaning the cyclones with another 10 shifts of plugging problems while we were running resulting in lower grinds. When the plugging problems subsided, the grinds returned to +88% passing -200 mesh. The cause and effects of the overload have been reviewed with all crews and supervisors to prevent a reoccurrence. A more detailed range of operating parameters has been reviewed at a foreman’s meeting and will be implemented for Februarys run. The primary cyclone overflow line will be modified to go over an existing screen as a safety in case a “run away” overload were to occur again. This would prevent coarse material from plugging the cyclone cluster down stream of the SAG mill. During the cleaning of all the tertiary cyclones, it was discovered that the vortex finders and apexes were not standardized in size. Vortex size ranged from 2” to 2.5” and apex size ranged from 1.25” to 1.5”. Original design called for a 2” vortex and a 1.25” apex. Warehouse stock is supplied with a 2.5” vortex and 1.25” apex. The cyclones were standardized at 2.5” and 1.25”. Grind size will be closely monitored and optimized during the February run.

The TCO sampler performed well with only minor plugging problems. Sampler cleaning has improved and was acceptable.

CIL

Carbon loading peaked at approximately 345 opt (total) during the campaign. The silver to gold ratio on the loaded carbon was approximately 3.09:1.

Stripping

A total of 31 batches of Rosebud carbon totaling 310 tons were stripped in a 24.5-day period. Stripping started on January 7th and was completed on February 1st. Loaded carbon averaged 54.48 Au opt and 168.41 Ag opt and stripped carbon averaged 21.36 Au opt and 15.29 Ag opt for a 60.8% Au and 90.9% Ag stripping recovery rate (Based on 28 strips). Approximately 74% of the Rosebud stripped carbon was acid washed and 74% was reactivated in the kiln (Based on 31 strips). The last 3 strips were not poured off and will be reported with the February pours. These strips were accounted for in inventory. The strip circuit was plagued with low flows and poor heat transfer for most of the January run due to plugging of the heat exchangers. The heat exchangers have been pulled apart, high-pressure washed and acid washed. Plates were added to both exchangers. The preg cool down / barren pre heat exchanger had 22 plates added for a total of 130. The boiler exchanger had 8 plates added for a total of 50. Funda's B and C were pulled apart, cleaned and acid washed. Both funda's had major scale and residual precip on them. Funda A is scheduled for the same inspection before the start of the February run. A regular tear down and acid wash is now planned to occur every two months.

Tailings

The tails sampling system operated without incident during the run. Post grinding tails losses indicate that an average grade of 0.074 Au opt and 0.662 Ag opt was discharged to tailings during the non-milling part of the month. Based on 1300 tons estimated to have been sent to tails during the down period, approximately 97 Au ounces and 860 Ag ounces were probably lost to tails. It was evident that some losses to tails occurred during the month due to carbon fines / precip and solution loss from the strip and precipitation area. Solution losses are from the strip area sump pump and barren bleed lines. Both are routed to the thickener and plan to be routed to the CIL circuit to prevent a short circuit to tails. Plans have been made to prevent carbon fines in the transport water from coming in contact with gold bearing solutions. This will also minimize losses to tails.

Costs

A detailed cost report covering December 1998 and January 1999 will be issued under separate cover in approximately one week when all journal entries are completed for January 1999.

Projects

The primary cyclone overflow will be screened using existing equipment as a safety to prevent coarse material from plugging the cyclone clusters in the event of a SAG overload. This is planned prior to the February run. The heat exchangers were expanded by approximately 20%. This should provide more efficient heat transfer and prevent flashing problems. Work was started on thickener modifications. A pilot test with the existing thickener is scheduled after the February run.

A handwritten signature in black ink, appearing to read "John W. Dean".

1999 Gold Balance

Rosebud Ore Processing
At The Newmont Pinon Mill

Month	Jan-99	Feb-99	Mar-99	1st Qrt	1999
Pinon Met Oz	0.00	0.00	0.00	0.00	0.00
Rose Met Oz	9977.71	0.00	0.00	9977.71	9977.71
Total Met Oz	9977.71	0.00	0.00	9977.71	9977.71
Poured Oz	8584.780	0.000	0.000	8584.780	8584.780
Ending Inventory	3406.60	0.00	0.00	3406.60	3406.60
Begin Inventory	1433.81	3406.60	0.00	1433.81	1433.81
Inventory Change	1972.79	(3406.60)	0.00	1972.79	1972.79
Total Rec.	579.86	(3406.60)	0.00	579.86	579.86
To Rosebud	579.86	#DIV/0!	#DIV/0!	579.86	579.86
To Pinon	0.00	#DIV/0!	#DIV/0!	0.00	0.00
Rosebud Tails	633.7			633.7	633.7
Mill Tons	24521.4			24521.4	24521.4
Total Head Oz's	11191.22	#DIV/0!	#DIV/0!	11191.22	11191.2
Adj. Recovery	94.34%	#DIV/0!	#DIV/0!	94.34%	94.34%
Adj. Head OPT	0.456	#DIV/0!	#DIV/0!	0.456	0.456

1999 Silver Balance

Rosebud Ore Processing
At The Newmont Pinon Mill

Month	Jan-99	Feb-99	Mar-99	1st Qrt	1999
Pinon Met Oz	0.00	0.00	0.00	0.00	0.00
Rose Met Oz	46144.71			46144.71	46144.71
Total Met Oz	46144.71			46144.71	46144.71
Poured Oz	36617.350			36617.350	36617.350
Ending Inventory	3801.56			3801.56	3801.56
Begin Inventory	4279.30	3801.56	0.00	4279.30	4279.30
Inventory Change	(477.74)	(3801.56)	0.00	(477.74)	(477.74)
Total Rec.	(10005.10)	(3801.56)	0.00	(10005.10)	(10005.10)
To Rosebud	(10005.10)	#DIV/0!	#DIV/0!	(10005.10)	(10005.10)
To Pinon	0.00	#DIV/0!	#DIV/0!	0.00	0.00
Rosebud Tails	34844.8			34844.8	34844.8
Mill Tons	24521.4			24521.4	24521.4
Total Head Oz's	70984.41	#DIV/0!	#DIV/0!	70984.41	70984.41
Adj. Recovery	50.91%	#DIV/0!	#DIV/0!	50.91%	50.91%
Adj. Head OPT	2.895	#DIV/0!	#DIV/0!	2.895	2.895

Newmont Gold Company - Twin Creeks Mine

ROSEBUD MONTHLY SETTLEMENT SHEET

Lot 99001

January-99

To: Jim Sigurdson
From : Suart Myrhow
Date:

Final

FACILITY	Last Month Ending Inventory	This Month Ending Inventory	Monthly Indicated Production	Theoretical Production	Ounces Poured	Accounting Discrepancy
Piñon Mill Gold	1,433.81	3,406.60	9,977.71	8,004.92	8,584.78	579.86
Piñon Mill Silver	4,279.30	3,801.56	46,144.71	46,622.45	36,617.35	(10,005.10)

	GOLD	SILVER
Poured Ounces to Rosebud (oz)	8,584.78	36,617.35
Adjustment to Rosebud Settlement	0.00	0.00
Final Rosebud Settlement	8,584.78	36,617.35

Lot 99001 Metallurgical Balance

	Dry Tons	Gold Grade oz/t	Troy Ounces	Silver Grade oz/t	Troy Ounces
Feed	24,521.4	0.433	10,611.4	3.303	80,989.5
Tails		0.0258	633.7	1.421	34,844.8
Recovered		94.0%	9,977.7	57.0%	46,144.7
Reconciled Feed Ounces			11,191.22		70,984.4
Adjusted Feed Grade		0.456		2.89	
Adjusted Recovery		94.3%		50.9%	
Mine Face Sample Average					
Mill Mine Discrepancy					

Reviewed by:

Twin Creeks

Date:

Rosebud Joint Venture

Date:

1-4-99

Approval Twin Creeks

Date:

Approval Hecla Mining Co.

Date:

Run Date: 02-FEB-99

Page 1 of 2

Metal Sales Application
 Month To Date Fine Ounces Poured (MSS3050)
 For Production Period 9901
 Newmont Gold Company - Nevada Operations

Area: ROSEBUD JV CIRCUIT

Refinery Week	Refinery	Melt Nr	Melt Date	Gross Oz	Au Fineness	Au Fine Oz	Ag Fineness	Ag Fine Oz		
01/01/99 - 01/10/99	TC			0.000	0.000	0.000	0.000	0.000		
		Week Totals		0.000		0.000		0.000		
01/11/99 - 01/17/99	TC P TC P	49237 49337	01/13/99 01/15/99	5513.360 5240.360	167.554 188.484	923.786 987.724	765.765 750.202	4221.938 3931.329		
		Week Totals		10753.720		1911.510		8153.267		
01/18/99 - 01/24/99	TC P TC P	49361 49389	01/19/99 01/22/99	6152.360 9036.820	178.611 172.421	1098.879 1558.138	764.793 786.039	4705.282 7103.293		
		Week Totals		15189.180		2657.017		11808.575		
01/25/99 - 02/04/99	TC P TC P TC G TC P	49420 49437 49497 49520	01/26/99 01/27/99 01/30/99 02/01/99	9047.460 4877.500 129.046 6095.200	167.862 160.913 64.357 199.101	1518.725 784.853 8.305 1213.560	776.438 781.369 935.643 733.166	7024.792 3811.127 120.741 4468.793		
		Week Totals		20149.206		3525.443		15425.453		
Totals For This Area				46092.106		8093.970		35387.295		
Grand Total - All Areas				46092.106		8093.970		35387.295		

PER GOLD RECON 8093.968

STUART MYRHOW
 54713

NEWMONT GOLD COMPANY - TWIN CREEKS MINE
METAL ACCOUNT ANALYSIS 1999

2/3/99

SHIP LOT	R I L	E F	DATE SHIP	SHIPPED TOTAL OUNCES	PRELIMINARY GOLD ASSAY	SHIPPED GOLD OUNCE	GOLD SHIPPING ADJUST	GOLD REFINERY DEDUCT	FINAL GOLD RETURNED	SHIPPED SILVER OUNCE	SILVER SHIPPING ADJUST	SILVER REFINERY DEDUCT	FINAL SILVER RETURNED	FRT	REF CHG	REP CHG
PINON																
1014B P AH	1/16/99	5,613.360	16.755	76.577	923.786				4,221.938				1,433.47	768.087	127.50	
1014D P AH	1/16/99	5,240.360	18.848	75.020	987.724				3,831.329				1,362.49	720.650	127.50	
1015B P PA	1/22/99	6,152.360	17.861	78.479	1,098.879				4,705.282				1,168.85	845.950	102.00	
1015D P PA	1/22/99	5,235.840	17.242	78.804	902.734				4,116.417				994.77	719.901	102.00	
1015E P PA	1/22/99	3,801.180	17.242	78.804	655.403				2,987.876				722.22	522.662	102.00	
1016E P AH	1/28/99	4,789.300	16.788	77.844	800.584				3,703.068				1,240.02	665.779	56.87	
1016F P AH	1/28/99	4,278.160	16.788	77.844	718.140				3,321.726				1,112.32	688.247	56.87	
1016G P AH	1/28/99	4,877.500	16.091	78.137	784.853				3,811.127				1,268.15	870.656	56.87	
9901A P GD	1/30/99	129.046	6.438	93.564	8.305		8.305		120.741					1,280.390		
1017A P PA	2/5/99	6,095.200	19.810	73.317	1,213.560				4,468.793				1,158.09	838.090	102.00	
PINON JAN 1999		46,092.106			8,093.968				35,387.295							
YEAR TO DATE		46,092.106			8,093.968				35,387.295							

Metal Sales Application
Month To Date Fine Ounces Poured (MSS3050)
For Production Period 9901
Newmont Gold Company - Nevada Operations

Area: TWIN CREEKS BULLION CIRCUIT

Refinery Week	Refinery	Melt Nr	Melt Date	Gross Oz	Au Fineness	Au Fine Oz	Ag Fineness	Ag Fine Oz
01/01/99 - 01/10/99	TC	48997	01/06/99	7249.920	877.881	6364.567	83.919	608.406
	TC	48998	01/06/99	6703.400	896.127	6007.098	70.565	473.025
	TC	48999	01/06/99	3273.520	896.755	2935.545	68.252	223.424
	TC	49117	01/08/99	5607.060	890.647	4993.911	77.766	436.039
		Week Totals		22833.900		20301.121		1740.894
01/11/99 - 01/17/99	TC	49197	01/12/99	6875.100	856.742	5890.187	104.958	721.597
	TC	49255	01/14/99	3300.100	850.569	2806.963	114.130	376.640
		Week Totals		10175.200		8697.150		1098.237
01/18/99 - 01/24/99	TC	49341	01/18/99	6587.600	820.444	5404.757	139.877	921.454
	TC	49377	01/20/99	6061.200	811.945	4921.361	138.734	840.895
		Week Totals		12648.800		10326.118		1762.348
01/25/99 - 02/04/99	TC	49401	01/25/99	8347.800	849.397	7090.596	112.906	942.517
	TC	49402	01/25/99	7450.240	831.273	6193.183	133.057	991.307
	TC	49477	01/29/99	6164.140	839.359	5173.926	107.345	661.690
	TC	49478	01/29/99	6659.480	724.106	4822.169	231.423	1541.157
	TC	49537	02/02/99	7422.200	841.361	6244.750	109.859	815.395
	TC	49543	02/02/99	8694.060	851.338	7401.584	107.870	937.828
		Week Totals		44737.920		36926.209		5889.893
Totals For This Area				90395.820		76250.598		10491.373
Grand Total - All Areas				90395.820		76250.598		10491.373

PER GOLD RECON ✓

10491.374 ✓

JUNIPER

FURNACE DUST

4822.169

1541.157

RESCDUB

490.811

1230.050

STUART MYRHOW
S4713

NEWMONT GOLD COMPANY - TWIN CREEKS MINE
METAL ACCOUNT ANALYSIS 1999

2/3/99

R SHIP LOT	I E L F	D ATE SHIP	S HIPPED TOTAL OUNCE	P RELIMINARY GOLD ASSAY	S HIPPED GOLD OUNCE	G OLD SHIPPING ADJUST	G OLD REFINERY DEDUCT	F INAL GOLD RETURNED	S HIPPED SILVER OUNCE	S ILVER SHIPPING ADJUST	S ILVER REFINERY DEDUCT	F INAL SILVER RETURNED
1013E J PA		1/8/99	7,249.920	87.788	8.392	6,364.667			608.406			
1013F J PA		1/8/99	6,703.400	89.813	7.057	6,007.098			473.026			
1013G J PA		1/8/99	3,273.520	89.876	6.826	2,935.546			223.424			
1013H J PA		1/8/99	5,807.080	89.065	7.777	4,993.911			436.039			
1014A J AH		1/15/99	6,875.100	85.874	10.498	6,890.187			721.597			
1014B P AH		1/15/99	5,513.360	16.756	78.677	923.786			4,221.938			
1014C J AH		1/15/99	3,300.100	85.057	11.413	2,806.963			378.840			
1014D P AH		1/15/99	5,240.360	18.848	75.020	987.724			3,831.328			
1015A J PA		1/22/99	6,587.600	82.044	13.988	6,404.767			921.464			
1015B P PA		1/22/99	6,162.360	17.861	76.479	1,098.879			4,705.282			
1015C J PA		1/22/99	6,061.200	81.195	13.873	4,921.361			840.895			
1015D P PA		1/22/99	6,235.640	17.242	78.604	802.734			4,115.417			
1015E P PA		1/22/99	3,801.180	17.242	78.604	666.403			2,987.876			
1016A J AH		1/29/99	4,441.540	84.940	11.291	3,772.831			501.477			
1016B J AH		1/29/99	3,906.280	84.940	11.291	3,317.966			441.040			
1016C J AH		1/29/99	3,717.000	83.127	13.306	3,089.842			494.573			
1016D J AH		1/29/99	3,733.240	83.127	13.306	3,103.342			496.734			
1016E P AH		1/29/99	4,769.300	16.786	77.644	800.584			3,703.066			
1016F P AH		1/29/99	4,278.180	16.786	77.644	718.140			3,321.726			
1016G P AH		1/29/99	4,877.500	16.091	78.137	784.853			3,811.127			
1016H J AH		1/29/99	6,164.140	83.936	10.735	5,173.926			661.690			
1016I d AH		1/29/99	6,659.480	72.411	23.142	4,822.169			1,541.167			
9901A P GD		1/30/99	129.048	6.436	93.564	8.305	8.305		120.741		120.741	
1017A P PA		2/5/99	8,095.200	18.910	73.317	1,213.560			4,468.793			
1017B J PA		2/5/99	7,422.200	84.136	10.986	8,244.750			816.395			
1017C J PA		2/5/99	6,660.080	85.134	10.787	5,869.979			718.423			
1017D J PA		2/5/99	2,033.980	85.134	10.787	1,731.804			219.405			
JANUARY 1999			136,487.926			84,344.566			45,878.669			
YEAR TO DATE			139,473.346			86,121.754			47,860.588			

CURRENT MONTH FURNACE DUST

1016I d AH	1/29/99	6,659.480	72.411	23.142	4,822.169	1,541.167
TOTALS						
		6,659.480			4,822.169	1,541.167

NEWMONT GOLD COMPANY - TWIN CREEKS MINE
METAL ACCOUNT ANALYSIS 1999

2/3/99

SHIP LOT	R I L	E F	DATE SHIP	SHIPPED TOTAL OUNCES	PRELIMINARY		SHIPPED GOLD OUNCES	GOLD SHIPPING ADJUST	GOLD REFINERY DEDUCT	FINAL GOLD RETURNED	SHIPPED SILVER OUNCES	SILVER SHIPPING ADJUST	SILVER REFINERY DEDUCT	FINAL SILVER RETURNED	FRT	REF CHG	REP CHG
					GOLD ASSAY	SILVER ASSAY											

PINON

1014B P AH	1/15/99	5,613.360	16.765	76.577	923.786					4,221.938					1,433.47	768.087	127.50
1014D P AH	1/15/99	6,240.360	18.848	75.020	987.724					3,931.329					1,362.49	720.560	127.50
1015B P PA	1/22/99	6,162.360	17.861	76.479	1,098.870					4,706.282					1,168.96	846.960	102.00
1015D P PA	1/22/99	6,235.640	17.242	78.604	902.734					4,115.417					994.77	719.901	102.00
1015E P PA	1/22/99	3,801.180	17.242	78.604	655.403					2,987.876					722.22	522.662	102.00
1016E P AH	1/29/99	4,769.300	16.788	77.644	800.584					3,703.066					1,240.02	655.779	56.67
1016F P AH	1/29/99	4,278.160	16.788	77.644	718.140					3,321.726					1,112.32	588.247	56.67
1016G P AH	1/29/99	4,877.500	16.091	78.137	784.853					3,811.127					1,268.16	670.656	56.67
9901A P GD	1/30/99	129.046	6.436	93.564	8.305					8.305	120.741				120.741	1,290.380	
1017A P PA	2/5/99	6,095.200	19.910	73.317	1,213.560					4,468.793					1,168.09	838.090	102.00

PINON JAN 1999	46,092.106	8,093.968	8.305	35,387.295	120.741
YEAR TO DATE	46,092.106	8,093.968	8.305	35,387.295	120.741
January Pinon Furnace Dust Allocation		490.811		1,230.050	
YTD Furnace Dust Allocation		490.811		1,230.050	
January Pinon Ounces w/Furnace Dust Allocation		8,584.779	8.305	36,617.345	120.741
YTD with Furnace Dust		8,584.779	8.305	36,617.345	120.741

Rosebud Ounces	100.000%	8,093.968	100.000%	35,387.295
Twin Creeks Ounces				
Allocated Rosebud Shipping Adjustment				
Allocated Twin Creeks Shipping Adjustment				
Allocated Rosebud Refinery Deduction				
Allocated Twin Creeks Refinery Deduction				

FURNACE DUST 1999

1016I d AH	1/29/99	6,659.480	72.411	23.142	4,822.169					1,541.167		
JAN 99 TOTAL		6,659.480			4,822.169					1,541.167		
ALLOCATED TO ROSEBUD JV		8,093.968	35,387.295	490.811						1,230.050		
ALLOCATED TO TWIN CREEKS		71,428.420	8,050.217	4,331.368						311.107		

TWIN CREEKS
SOUTH AREA PROCESS GOLD INVENTORY

Month:	Jan-99
Samples Dated: CiL	1/18/99
Samples Dated: DL	1/31/99

PINON MILL	GOLD	SILVER
1. MILL CIL CIRCUIT:	5,197.36	15,903.94
2. STRIP/REGEN	1,638.46	3,052.11
3. STRIP SOLUTIONS:	87.91	150.22
TOTAL	6,923.74	19,106.27

PINON DUMP LEACH	GOLD
1. DUMP CIC CIRCUIT:	3,845.24
2. MILL CIC CIRCUIT:	1,656.86
TOTAL	5,502.10

1. MILL CIL CIRCUIT:

TANK No.	Freeboard Height (in)	Solid Density (% solids)	VOL. OF SAMPLE (ml)	CARBON W (gram)	AU ASSAY (oz/t)	AG ASSAY (oz/t)	CARBON CONC. (g/l)	CARBON WEIGHT (tons)	GOLD ON CARBON (oz)	SILVER ON CARBON (oz)
1A	24	28	3,050	33.57	77.582	240.007	11.0	13.1	1,017.95	3,149.13
1B	72	29	3,150	11.36	85.967	238.009	3.6	3.8	329.08	911.10
2A	22	30	2,920	84.73	67.753	197.279	29.0	15.7	1,064.62	3,099.90
2B	25	30	3,075	36.60	63.742	177.942	11.9	6.4	407.20	1,136.72
3A	43	30	2,800	161.34	50.166	182.681	57.6	29.3	1,468.06	5,346.06
3B	20	30	2,900	49.30	35.189	132.297	17.0	9.3	325.86	1,225.11
4A	40	29	3,130	19.44	29.020	85.296	6.2	3.2	92.41	271.60
4B	19	30	2,950	30.13	26.395	61.555	10.2	5.6	147.28	343.47
5	42	28	3,250	98.87	22.254	27.154	30.4	15.5	344.91	420.85
TOTAL				51.04	156.17		101.8	5,197.36	19,106.27	

2. STRIP/REGEN

CARBON LOCATION	Depth to Carbon (in)	CARBON DENSITY (g/l)	CARBON AU ASSAY (oz/t)	CARBON AG ASSAY (oz/t)	CARBON WEIGHT (tons)	GOLD ON CARBON (oz)	SILVER ON CARBON (oz)
Acid Wash Tank	115.0	653	49.188	35.626	8.2	403.3	292.1
Kiln Feed Tank	46.0	663	16.523	6.402	11.1	183.6	71.1
Quench Tank					0.0	0.0	0.0
Loaded Carbon	38.0	676	84.786	223.572	11.8	998.5	2,633.1
Stripped Carbon					0.0	0.0	0.0
Strip Vessel					0.0	0.0	0.0
Carbon Conditioning					0.0	0.0	0.0
Other Carbo (fines)					0.0	0.0	0.0
Other: Tails Splitter	40.0	647	25.418	26.731	2.1	53.1	55.8
TOTAL					33.2	1,638.5	3,052.1

3. STRIP SOLUTIONS:

TANK LEVEL	SOLUTION AU ASSAY (%)	SOLUTION AG ASSAY (oz/t)	SOLUTION WEIGHT (tons)	GOLD IN SOLUTION (oz)	SILVER IN SOLUTION (oz)
PREG TANK	9.60	0.99	0.35	41.32	41.00
BARREN TANK	100.00	0.11	0.32	430.42	46.92
TOTAL			471.74	87.91	150.22

1. DUMP CIC CIRCUIT:

TANK No.	Depth to Carbon (in)	CARBON DENSITY (g/l)	CARBON AU ASSAY (oz/t)	DEPTH OF CARBON (ft)	CARBON WEIGHT (tons)	GOLD ON CARBON (oz)
1	26.0	631	165.930	7.2	9.0	1,489.6
2	26.0	604	127.570	7.2	8.6	1,096.9
3	77.0	564	139.770	2.9	3.3	456.6
4	41.0	619	49.420	5.9	7.3	359.5
5	40.0	555	66.890	6.0	6.6	442.6
TOTAL		549.58		34.7	3,845.2	

2. MILL CIC CIRCUIT:

TANK No.	DEPTH TO CARBON (IN)	CARBON DENSITY (g/l)	CARBON AU ASSAY (oz/t)	DEPTH OF CARBON (ft)	CARBON WEIGHT (tons)	GOLD ON CARBON (oz)
1	65.0	646	146.670	5.6	3.7	548.4
2	67.0	701	103.690	5.4	3.9	408.0
3	56.0	636	119.170	6.3	4.2	497.1
4	49.0	682	36.800	6.9	4.9	179.8
5	102.0	650	14.014	2.5	1.7	23.6
TOTAL		89.98		18.4	1,656.9	

Note 1

The Piñon Mill Inventory was taken on 1/18/99.

The additional stripped gold was poured out in melts , 49420, 49437, 49520.

The melted material was subtracted from the carbon inventory for 1/18/99.

The EOM totals are shown below:

Melt	Au	Ag
49420	1519	7025
49437	785	3811
49520	1214	4469
Total	3,517.14	15,304.71

Piñon Mill Carbon Inventory

	Carbon	Poured	Total EOM
Au	6,923.74	3,517.14	3,406.60
Ag	19,106.27	15,304.71	3,801.56

Transystems Haulage to Pinion Mill
Campaign # 99001

MONTH: Jan-99

Date	Rosebud Tons			Transystems Billed	Variance (over/billed)
	Day Shift	Night Shift	Total		
12/17/98	0.00	767.66	767.66		0.00
12/18/98	726.16	644.61	1,370.77		0.00
12/19/98	602.59	843.12	1,445.71		0.00
12/20/98	478.64	757.08	1,235.72		0.00
12/21/98	1,120.16	756.88	1,877.04		0.00
12/22/98	562.61	642.59	1,205.20		0.00
12/23/98	642.16	562.81	1,204.97		0.00
12/24/98	403.48	0.00	403.48		0.00
12/25/98	0.00	320.76	320.76		0.00
12/26/98	527.89	531.45	1,059.34		0.00
12/27/98	614.69	489.50	1,104.19		0.00
12/28/98	566.47	730.03	1,296.50		0.00
12/29/98	729.68	570.75	1,300.43		0.00
12/30/98	530.25	570.95	1,101.20		0.00
12/31/98	689.86	401.36	1,091.22		0.00
1/1/99	444.03	558.73	1,002.76		0.00
1/2/99	715.16	522.82	1,237.98		0.00
1/3/99	522.72	485.87	1,008.59		0.00
1/4/99	597.64	440.77	1,038.41		0.00
1/5/99	564.24	486.99	1,051.23		0.00
1/6/99	642.47	563.91	1,206.38		0.00
1/7/99	646.65	568.81	1,215.46		0.00
1/8/99	566.09	485.64	1,051.73		0.00
1/9/99	525.91	488.33	1,014.24		0.00
1/10/99	650.27	491.70	1,141.97		0.00
1/11/99	500.03		500.03		0.00
1/12/99			0.00		0.00
1/13/99			0.00		0.00
1/14/99			0.00		0.00
1/15/99			0.00		0.00
1/16/99			0.00		0.00
TOTAL	14,569.85	13,683.12	28,252.97	0.00	0.00
Variance %					

tons per day 1177.21

dry tons forecast	24304.00
wet tons forecast	26369.84
tons left on pile (wet)	(8.5%)
tons left on pile (dry)	-1883.13
days left (estimate)	-1735.60
	-1.60

12/24/98 at 6:00am through 12/31/98 used our loader. \$1.50 per ton will be charged to Transystems.
1/1/99 thorough 1/6/99 2:30pm used our loader.

Rosebud

2/2/99

Jan99

10:00 AM

Summary

Jan-99	Dry Short Tons	Gold		Silver	
		tr. oz / ore ton	troy ounces	tr. oz / ore ton	troy ounces
Feed	24521.4	0.433	10,611.4	3.303	80,989.5
Tails		0.0258	633.7	1.421	34,844.8
Recovered		94.0%	9,977.7	57.0%	46,144.7

Rosebud Metallurgical Accounting

Cyclone Overflow Auto Sampler
Transystem Tons = 28252.97
Wet Campaign Tons = 26,674.8
Dry Campaign Tons = 24,521.4

-1,816.8
(0.9) Days To Mill

-1775 1.008 6.359 (1789.6) (11200.5)
22746 0.545 4.057 12401.0 92280.0
107.8% 24521 0.433 3.303 10611.4 80989.5

Date	Sampling Period Start	Sampling Period End	Belt Scale Start	Belt Scale End	Wet Tons	% Moist	Dry Tons	Split #2 (24 Hour Bottle Roll)												Calculated Head # 2								
								Reclaim Solution to Grind				Solids				Solutions												
								Tons	opt Au	opt Ag	Slurry Wet Grams	Dry wt. grams	% Solids	opt Au	Duplicate opt Au	Average opt Au	opt Ag	Duplicate opt Au	Average opt Au	opt Ag	Duplicate opt Au	Average opt Au	opt Ag	Belt Scale oz Au	Belt Scale oz Ag			
1/1/99	18:00	6:00	7411135	7411135	0.0	0.00%	-	2,919.0	0.0006	0.145	0.0	0.0	0.00%	0.0000	100,000.00	0.0000	0.0000	100,000.00	0.0000	0.0000	100,000.00	0.0000	0.0000	0.0	0.0			
1/1/99	6:00	18:00	7411135	7411135	0.0	0.00%	-	5,421.0	0.0006	0.145	0.0	0.0	0.00%	0.0000	100,000.00	0.0000	0.0000	100,000.00	0.0000	0.0000	100,000.00	0.0000	0.0000	0.0	0.0			
1/2/99	18:00	6:00	7411135	7411135	0.0	0.00%	-	1,251.0	0.0006	0.0287	0.0	0.0	0.00%	0.0000	100,000.00	0.0000	0.0000	100,000.00	0.0000	0.0000	100,000.00	0.0000	0.0000	0.0	0.0			
1/2/99	6:00	18:00	7411135	7411135	0.0	0.00%	-	2,502.0	0.0005	0.0000	0.0	0.0	0.00%	0.0000	100,000.00	0.0000	0.0000	100,000.00	0.0000	0.0000	100,000.00	0.0000	0.0000	0.0	0.0			
1/3/99	18:00	6:00	7411135	7411135	0.0	0.00%	-	2,919.0	0.0013	0.0340	0.0	0.0	0.00%	0.0000	100,000.00	0.0000	0.0000	100,000.00	0.0000	0.0000	100,000.00	0.0000	0.0000	0.0	0.0			
1/3/99	6:00	18:00	7411135	7411135	0.0	0.00%	-	834.0	0.0066	0.0308	0.0	0.0	0.00%	0.0000	100,000.00	0.0000	0.0000	100,000.00	0.0000	0.0000	100,000.00	0.0000	0.0000	0.0	0.0			
1/4/99	18:00	6:00	7411135	7411135	0.0	0.00%	-	5,838.0	0.0119	0.0276	0.0	0.0	0.00%	0.0000	100,000.00	0.0000	0.0000	100,000.00	0.0000	0.0000	100,000.00	0.0000	0.0000	0.0	0.0			
1/4/99	6:00	18:00	7411135	7411135	0.0	0.00%	-	2,085.0	0.0002	0.0004	0.0	0.0	0.00%	0.0000	100,000.00	0.0000	0.0000	100,000.00	0.0000	0.0000	100,000.00	0.0000	0.0000	0.0	0.0			
1/5/99	18:00	6:15	7411135	7411135	0.0	0.00%	-	4,170.0	0.0099	0.0268	0.0	0.0	0.00%	0.0000	100,000.00	0.0000	0.0000	100,000.00	0.0000	0.0000	100,000.00	0.0000	0.0000	0.0	0.0			
1/5/99	6:15	18:00	7411136.2	7412267	110.8	8.43%	1,035.5	2,502.0	0.0000	0.0000	2725.1	663.5	24.35%	0.0240	100,000.00	0.7340	0.0000	100,000.00	0.1287	0.8514	100,000.00	0.8514	0.4239	3,3794	438.9	3499.4		
1/6/99	18:00	6:00	7412267	7413494	122.7	8.65%	1,120.8	2,502.0	0.0083	0.0236	1820.0	533.5	29.31%	0.0140	100,000.00	0.4680	0.1874	100,000.00	0.1287	0.8514	100,000.00	0.8514	0.4239	3,3794	438.9	3499.4		
1/6/99	6:00	18:00	7413494	7414661	116.7	7.58%	1,078.6	2,502.0	0.0001	0.0000	2811.9	762.4	27.11%	0.0240	100,000.00	0.5350	0.1422	100,000.00	0.1422	0.7883	100,000.00	0.7883	0.4060	2,6541	437.9	2862.7		
1/7/99	18:00	6:00	7414661	7415780	111.9	9.48%	1,012.9	2,919.0	0.0073	0.0206	2126.7	557.9	26.23%	0.0150	0.0160	0.5980	0.1279	0.8420	0.8560	0.4240	2,9063	359.2	2943.8					
1/7/99	6:00	18:00	7415780	7416804	102.4	8.36%	938.4	2,085.0	0.0000	0.0000	2422.3	628.0	25.61%	0.0290	100,000.00	0.8590	0.1369	100,000.00	0.1369	0.8440	100,000.00	0.8440	0.4267	3,3108	400.4	3106.8		
1/8/99	18:00	6:00	7416804	7417881	107.0	7.77%	993.3	2,919.0	0.0046	0.0071	1370.9	344.4	25.12%	0.0170	0.0130	0.5380	0.5810	0.5380	0.1599	0.9087	0.9167	0.9087	0.4801	3,2156	476.9	3204.0		
1/8/99	6:00	18:00	7417881	7418611	73.0	7.10%	678.2	2,919.0	0.0003	0.0094	1437.1	405.5	27.87%	0.0080	0.0160	0.5150	0.5420	0.1599	0.9567	0.9567	0.9567	0.4206	2,9777	285.2	2019.4			
1/9/99	18:00	6:00	7418611	7418842	231.0	6.41%	216.2	1,251.0	0.0035	0.0240	1208.2	366.8	30.36%	0.0160	0.0160	0.6620	0.1900	0.9000	1.1225	100,000.00	1.1225	100,000.00	1.1225	0.4116	3,2013	316.7	2295.1	
1/9/99	6:00	18:00	7418842	7419603	766.0	6.41%	716.9	1,251.0	0.0058	0.0204	1208.2	666.8	30.36%	0.0160	0.0160	0.6620	0.1900	0.9000	1.1225	100,000.00	1.1225	100,000.00	1.1225	0.4116	3,4821	364.3	3825.4	
1/10/99	18:00	6:00	7419603	7420275	116.7	5.86%	1,098.6	2,085.0	0.0000	0.0000	1879.9	578.9	30.79%	0.0100	0.0100	0.9050	0.1000	0.9050	1.1467	100,000.00	1.1467	100,000.00	1.1467	0.3316	3,2156	364.3	3825.4	
1/10/99	6:00	18:00	7420275	742203	122.8	9.17%	1,115.5	1,251.0	0.0001	0.0001	1705.2	546.7	32.06%	0.0410	100,000.00	1.6830	0.2339	100,000.00	1.7780	100,000.00	0.5365	0.5456	0.9585	0.6079	0.9585	0.6079	0.9585	0.6079
1/11/99	18:00	6:00	742203	7423159	115.6	6.28%	1,083.4	2,502.0	0.0030	0.0233	1712.1	521.7	30.31%	0.0220	100,000.00	1.5110	0.1855	100,000.00	1.3196	0.4116	4,4912	478.4	4865.7					
1/11/99	6:00	18:00	7423159	7424128	105.0	8.03%	974.0	1,668.0	0.0001	0.0001	2027.0	596.6	29.43%	0.0470	100,000.00	1.4230	0.1913	100,000.00	1.2360	0.5055	4,3862	492.3	4272.2					
1/12/99	18:00	6:00	7424128	7425277	105.0	7.92%	975.1	1,251.0	0.0015	0.0193	1895.8	502.6	26.51%	0.0160	100,000.00	0.6310	0.1629	100,000.00	1.0203	0.4656	3,3846	454.0	3300.4					
1/12/99	6:00	18:00	7425277	7426401	112.4	7.61%	1,038.5	4,170.0	0.0000	0.0000	2741.9	532.2	19.41%	0.0170	0.0170	0.5840	0.1267	0.7587	0.5431	0.7341	563.9	3877.8						
1/13/99	18:00	6:00	7426401	7427376	117.5	9.25%	2,502.0	0.0019	0.0217	2673.4	789.8	29.53%	0.0130	0.0130	0.8270	0.1240	0.9369	0.3043	0.3043	3,0105	324.4	3210.0						
1/13/99	6:00	18:00	7427376	7428675	109.0	6.93%	1,022.9	1,251.0	0.0003	0.0001	2697.1	791.3	29.34%	0.0260	0.0260	0.6020	0.1563	0.9000	1.0742	100,000.00	1.0742	100,000.00	1.0742	0.4021	3,1890	316.3	3262.0	
1/14/99	18:00	6:00	7428675	7429610	935.0	8.70%	853.7	0.0018	0.0243	2869.6	827.0	28.82%	0.0160	0.0130	0.8390	0.1255	0.9366	0.9368	0.9368	0.3181	0.3180	0.4060	271.5	2660.2				
1/14/99	6:00	18:00	7429610	7430650	104.0	8.69%	947.9	2,085.0	0.0017	0.0148	1914.8	548.1	28.62%	0.0200	0.0170	0.7640	0.1562	0.9000	1.0266	100,000.00	1.0266	100,000.00	1.0266	0.4058	3,2914	385.3	3125.7	
1/15/99	18:00	6:00	7430650	7431700	107.0	7.76%	968.5	2,919.0	0.0025	0.0266	2199.1	601.1	27.33%	0.0190	0.0180	0.8390	0.1514	0.9236	0.9236	0.9236	0.4140	3,2142	400.9	3112.8				
1/15/99	6:00	18:00	7431700	7432824	112.4	9.02%	2,022.7	2,085.0	0.0000	0.0001	2478.1	511.3	27.67%	0.0190	0.0190	0.7670	0.1405	0.8200	0.8200	0.8200	0.4105	3,2142	395.0	2977.8				
1/16/99	18:00	6:00	7432824	7433792	968.0	8.18%	888.9	2,919.0	0.0013	0.0006	2065.5	591.5	28.64%	0.0130	0.0130	0.8220	0.1682	0.9426	0.9426	0.9426	0.4279	3,1690	380.3	2816.7				
1/16/99	6:00	18:00	7433792	7434792	100.0	7.87%	921.3	2,085.0	0.0010	0.0000	2047.9	584.7	28.53%	0.0130	0.0130	0.8230	0.1420	0.9246	0.9246	0.9246	0.4019	2,5031	370.2	2306.1				
1/17/99	18:00	6:00	7434792	7435848	96.0	8.81%	963.0	2,502.0	0.0000	0.0001	1939.9	584.2	30.11%	0.0180	0.0180	0.5460	0.0546	0.2377	0.9187	0.9187	0.9187	0.9187	0.5673	2,6777	546.3	2578.6		
1/17/99	6:00	18:00	7435848	7436901	103.0	8.19%	966.7	2,085.0	0.0003	0.0009	2621.4	735.2	28.05%	0.0160	0.0160	0.5180	0.0518	0.2130	0.8470	0.8470	0.8470	0.8470	0.					

Campaign Tails

Rosebud Metallurgical Accounting

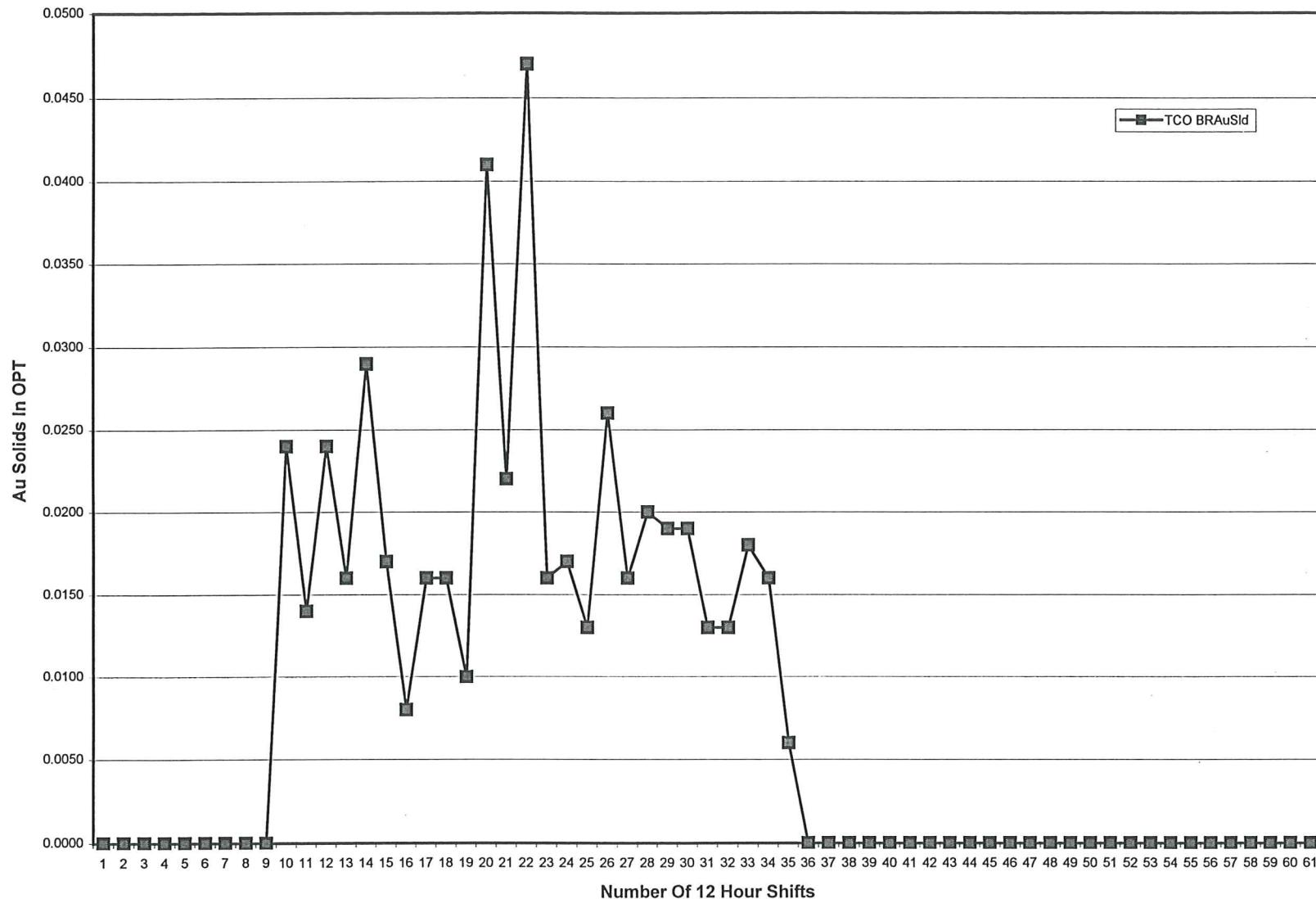
Tails Auto Sampler

Dry Campaign Tons = 24,521.4

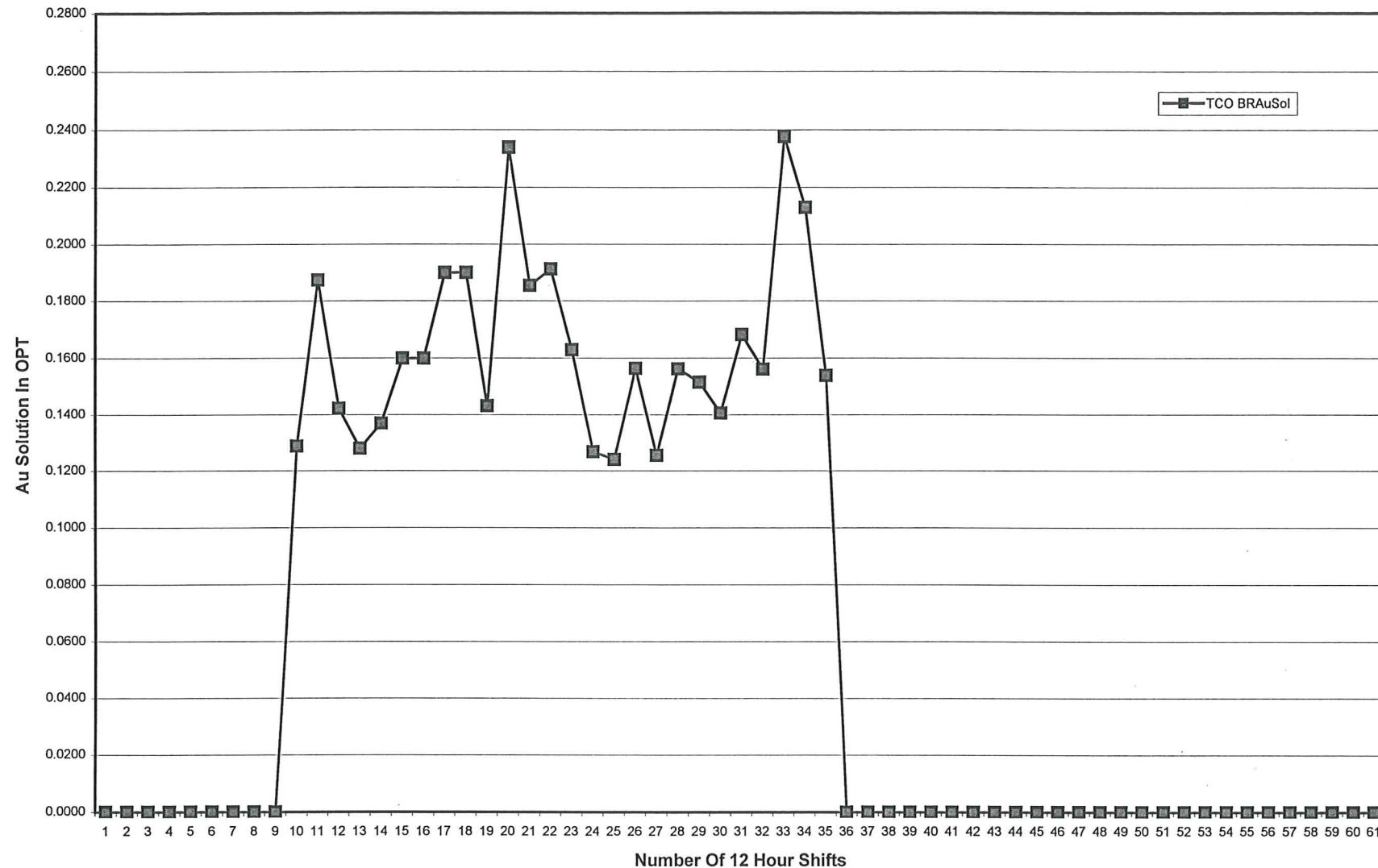
22746
107.8%
24521 0.026 1.421 633.7 34844.8

Date	Sampling Period Start	Sampling Period End	Mfl Feed DST	Split #1 (Lab Split)																		
				Solids				Solution				Calculated Head #2										
				Slurry Wet Grams	Dry wt. grams	% Solids	opt Au	Average opt Au	Duplicate opt Au	Average opt Au	Duplicate opt Au	Average opt Au	Duplicate opt Au	Average opt Au	opt Au	opt Ag	oz Au	oz Ag				
1/1/99	18:00	6:00	0.0	0.0	0.0	0.00%	0.0000	100.0000	0.0000	0.0000	100.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000			
1/1/99	6:00	18:00	0.0	0.0	0.0	0.00%	0.0000	100.0000	0.0000	0.0000	100.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000			
1/2/99	18:00	6:00	0.0	0.0	0.0	0.00%	0.0000	100.0000	0.0000	0.0000	100.0000	0.0000	0.0000	100.0000	0.0000	0.0000	0.0000	0.0000	0.0000			
1/2/99	6:00	18:00	0.0	6277.0	330.7	5.27%	0.0060	100.0000	0.0060	0.0000	100.0000	0.0000	0.0000	100.0000	0.0035	0.0105	100.0000	0.0105	0.0689	0.269		
1/3/99	18:00	6:00	0.0	1995.8	79.3	3.97%	0.1400	100.0000	0.1400	0.1990	100.0000	0.1990	0.0020	100.0000	0.0020	0.0098	100.0000	0.0098	0.1883	0.436		
1/3/99	6:00	18:00	0.0	7030.4	182.6	2.60%	0.2740	100.0000	0.2740	0.4610	100.0000	0.4610	0.0048	100.0000	0.0048	0.0122	100.0000	0.0122	0.4540	0.919		
1/4/99	18:00	6:00	0.0	2358.6	71.4	2.76%	0.1270	100.0000	0.1270	0.5090	100.0000	0.5090	0.0034	100.0000	0.0034	0.0111	100.0000	0.0111	0.2467	0.900		
1/4/99	6:00	18:00	0.0	4410.5	137.3	3.11%	0.4070	100.0000	0.4070	0.2240	100.0000	0.2240	0.0118	100.0000	0.0118	0.0170	100.0000	0.0170	0.7743	0.753		
1/5/99	18:00	6:15	0.0	6310.6	213.2	3.38%	0.1910	100.0000	0.1910	0.4630	100.0000	0.4630	0.0009	100.0000	0.0009	0.0082	100.0000	0.0082	0.2167	0.698		
1/5/99	6:15	18:00	0.0	1035.5	3614.1	430.4	11.91%	0.0780	100.0000	0.0780	0.5410	100.0000	0.5410	0.0013	100.0000	0.0013	0.0015	100.0000	0.0015	0.0876	0.552	
1/6/99	18:00	6:00	1120.8	2517.6	411.9	16.36%	0.0300	100.0000	0.0300	0.9070	100.0000	0.9070	0.0005	100.0000	0.0005	0.0445	100.0000	0.0045	0.0326	0.930		
1/6/99	6:00	18:00	0.0	3074.6	693.3	21.62%	0.0200	100.0000	0.0200	1.3490	100.0000	1.3490	0.0015	100.0000	0.0015	0.0221	0.0221	0.0221	0.1254	1.429		
1/7/99	18:00	6:00	1012.9	1881.1	421.7	22.42%	0.0140	100.0000	0.0140	1.2220	100.0000	1.2220	0.0014	100.0000	0.0014	0.0337	100.0000	0.0337	0.0188	1.339		
1/7/99	6:00	18:00	0.0	918.4	3805.1	863.9	22.70%	0.0080	100.0000	0.0080	1.0260	100.0000	1.0260	0.0003	100.0000	0.0003	0.0335	100.0000	0.0335	0.0097	1.140	
1/8/99	18:00	6:00	0.0	2053.9	3704.4	18.03%	0.0090	100.0000	0.0090	1.2100	100.0000	1.2100	0.0010	100.0000	0.0010	0.0276	100.0000	0.0276	0.0135	1.335		
1/8/99	6:00	18:00	0.0	678.2	1947.9	410.4	21.07%	0.0070	0.0070	1.2040	100.0000	1.2040	0.0018	100.0000	0.0018	0.0276	100.0000	0.0276	0.0137	1.307		
1/9/99	18:00	6:00	216.2	1710.2	272.4	15.93%	0.0080	100.0000	0.0080	1.0960	100.0000	1.0960	0.0020	0.0020	0.0020	0.0123	0.0123	0.0186	1.108	4.6		
1/9/99	6:00	18:00	0.0	716.9	1520.3	282.8	18.60%	0.0120	100.0000	0.0120	1.2230	100.0000	1.2230	0.0038	0.0038	0.0038	0.0217	0.0217	0.0256	0.0286		
1/10/99	18:00	6:00	1098.6	3356.0	613.2	18.27%	0.0150	0.0160	1.2040	1.1540	1.2040	0.0008	0.0011	0.0008	0.0128	0.0128	0.0185	1.261	20.4			
1/10/99	6:00	18:00	0.0	1115.5	2059.6	409.3	19.87%	0.0240	100.0000	0.0240	1.3130	100.0000	1.3130	0.0062	100.0000	0.0062	0.0275	100.0000	0.0275	0.0496	1.424	
1/11/99	18:00	6:00	0.0	1083.4	2193.3	450.3	20.35%	0.0140	100.0000	0.0140	1.7780	100.0000	1.7780	0.0007	0.0013	0.0013	0.0198	0.0198	0.0194	1.855		
1/11/99	6:00	18:00	0.0	1874.0	1666.1	438.2	23.45%	0.0130	0.0130	2.5300	100.0000	2.5300	0.0013	100.0000	0.0013	0.0352	100.0000	0.0352	0.0172	2.695		
1/12/99	18:00	6:00	0.0	975.1	1803.2	406.8	22.56%	0.0180	100.0000	0.0180	2.3200	100.0000	2.3200	0.0030	100.0000	0.0030	0.0333	100.0000	0.0333	0.0283	2.496	
1/12/99	6:00	18:00	0.0	1038.5	2029.5	471.5	23.33%	0.0270	100.0000	0.0270	2.2350	100.0000	2.2350	0.0016	100.0000	0.0016	0.0307	100.0000	0.0307	0.0323	2.336	
1/13/99	18:00	6:00	0.0	1066.3	3363.2	826.6	24.58%	0.0200	100.0000	0.0200	1.2910	100.0000	1.2910	0.0020	100.0000	0.0020	0.0414	100.0000	0.0414	0.0261	1.418	
1/13/99	6:00	18:00	0.0	2022.9	2961.2	514.0	17.36%	0.0180	100.0000	0.0180	1.5250	0.0072	100.0000	0.0072	0.0564	100.0000	0.0564	0.0523	1.794	53.5		
1/14/99	18:00	6:00	0.0	853.7	3292.2	753.9	22.90%	0.0170	100.0000	0.0170	1.2500	100.0000	1.2500	0.0048	100.0000	0.0048	0.0242	100.0000	0.0242	0.0324	1.416	
1/14/99	6:00	18:00	0.0	949.7	2355.8	556.6	23.63%	0.0170	100.0000	0.0170	1.1800	100.0000	1.1800	0.0000	0.0000	0.0000	0.0355	100.0000	0.0355	0.0176	1.295	
1/15/99	18:00	6:00	0.0	968.5	2055.1	482.5	23.48%	0.0170	100.0000	0.0170	1.2810	100.0000	1.2810	0.0010	0.0037	100.0000	0.0010	0.0337	100.0000	0.0337	0.0203	1.391
1/15/99	6:00	18:00	0.0	2022.7	2113.1	541.0	23.41%	0.0150	0.0150	1.2150	100.0000	1.2150	0.0002	100.0000	0.0002	0.0409	100.0000	0.0409	0.0137	1.346		
1/16/99	18:00	6:00	0.0	888.9	2258.9	517.1	22.89%	0.0120	0.0120	1.2800	100.0000	1.2800	0.0019	100.0000	0.0019	0.0391	100.0000	0.0391	0.0184	1.412		
1/16/99	6:00	18:00	0.0	921.3	1827.4	414.6	22.67%	0.0110	0.0110	1.2150	100.0000	1.2150	0.0013	100.0000	0.0013	0.0319	100.0000	0.0319	0.0154	1.324		
1/17/99	18:00	6:00	0.0	963.0	2285.8	516.9	22.61%	0.0100	0.0100	0.4990	100.0000	0.4990	0.0019	100.0000	0.0019	0.0338	100.0000	0.0338	0.0165	0.615		
1/17/99	6:00	18:00	0.0	966.7	1947.5	458.6	23.55%	0.0050	100.0000	0.0050	0.9490	0.0017	100.0000	0.0017	0.0320	100.0000	0.0320	0.0105	1.053			
1/18/99	18:00	4:00	0.0	822.1	1999.0	471.5	23.59%	0.0130	100.0000	0.0130	0.8340	100.0000	0.8340	0.0012	100.0000	0.0012	0.0288	100.0000	0.0288	0.0169	0.927	
1/18/99	4:00	18:00	0.0	2381.9	387.0	16.25%	0.0210	100.0000	0.0210	0.9070	100.0000	0.9070	0.0041	100.0000	0.0041	0.0310	100.0000	0.0310	0.0421	1.067		
1/19/99	18:00	6:00	0.0	2517.5	269.8	10.72%	0.0080	100.0000	0.0080	0.4280	0.0017	100.0000	0.0017	0.0170	100.0000	0.0170	0.0222	100.0000	0.0222	0.570		
1/19/99	6:00	18:00	0.0	1261.9	551.1	43.74%	0.0240	100.0000	0.0240	0.1960	0.0012	100.0000	0.0012	0.0012	100.0000	0.0012	0.0160	100.0000	0.0160	0.0503		
1/20/99	18:00	6:00	0.0	2612.1	250.7	9.60%	0.0190	0.0190	0.4970	100.0000	0.4970	0.0011	100.0000	0.0011	0.0128	100.0000	0.0128	0.0294	0.618			
1/20/99	6:00	18:00	0.0	2521.4	207.0	8.21%	0.0300	100.0000	0.0300	0.6610	100.0000	0.6610	0.0056	100.0000	0.0056	0.0618	100.0000	0.0618	0.1156			
1/21/99	18:00	6:00	0.0	4414.0	306.9	6.95%	0.0400	100.0000	0.0400	0.3410	100.0000	0.3410	0.0051	100.0000	0.0051	0.0359	100.0000	0.0359	0.1083	0.821		
1/21/99	6:00	18:00	0.0	7920.5	452.7	5.72%	0.0480	100.0000	0.0480	0.4360	100.0000	0.4360	0.0024	100.0000	0.0024	0.0151	100.0000	0.0151	0.0976	0.685		
1/22/99	18:00	6:00	0.0	3772.4	97.0	2.57%	0.0350	100.0000	0.0350	0.1910	100.0000	0.1910	0.0030	100.0000	0.0030	0.0203	100.0000	0.0203	0.0487	0.969		
1/22/99	6:00	18:00	0.0	1446.2	39																	

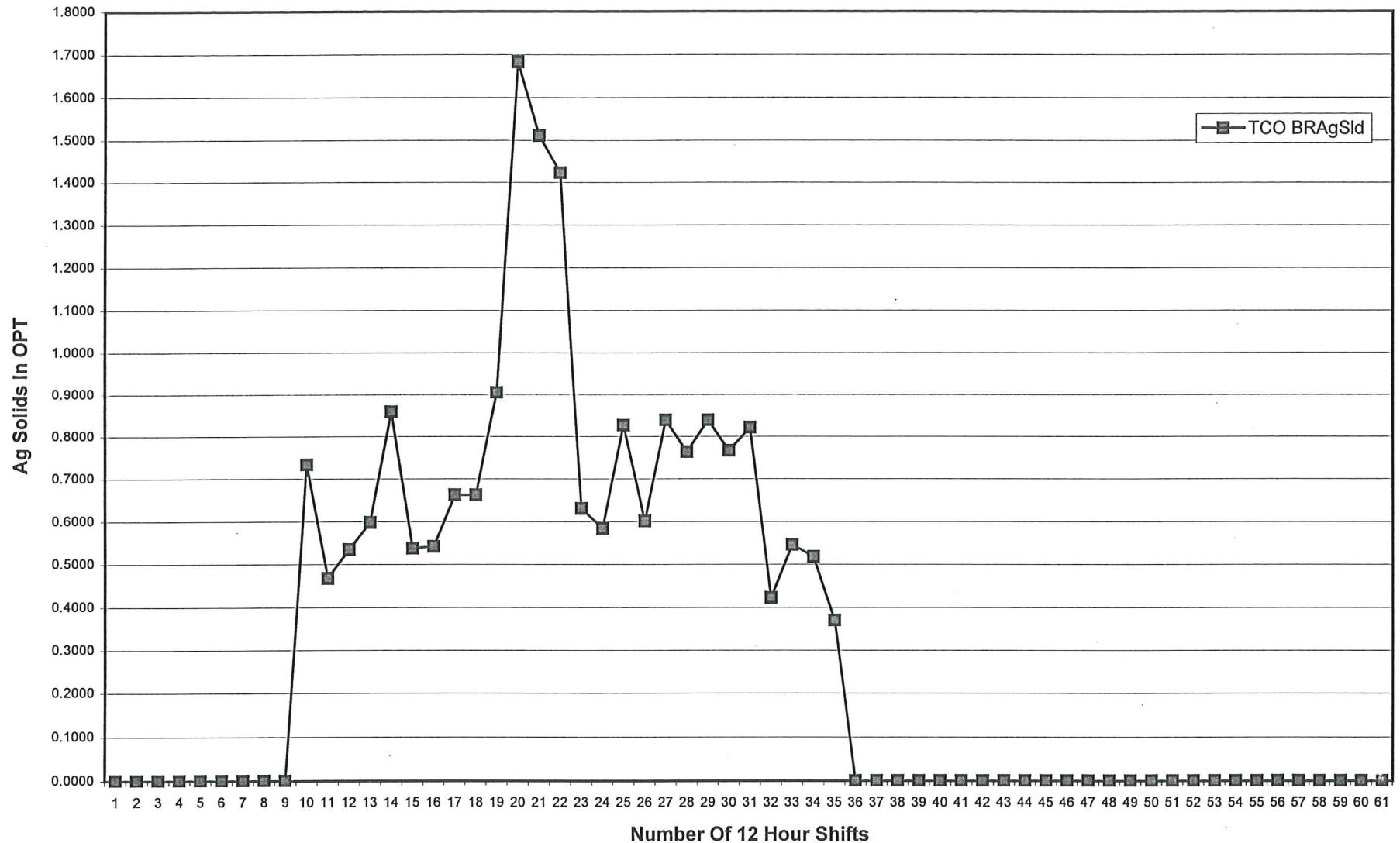
Au TCO Solids Trend - January 99 Bottle Roll



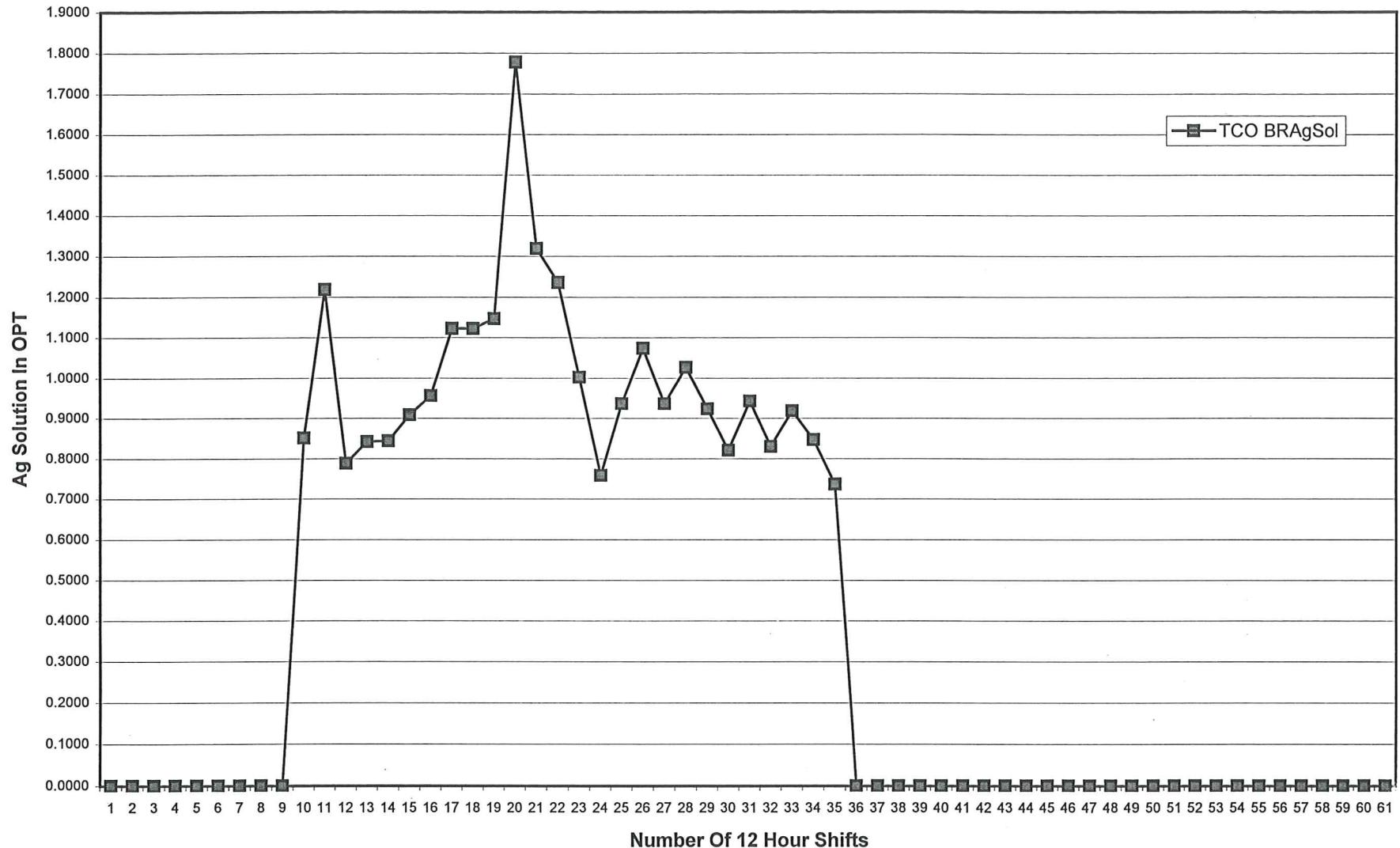
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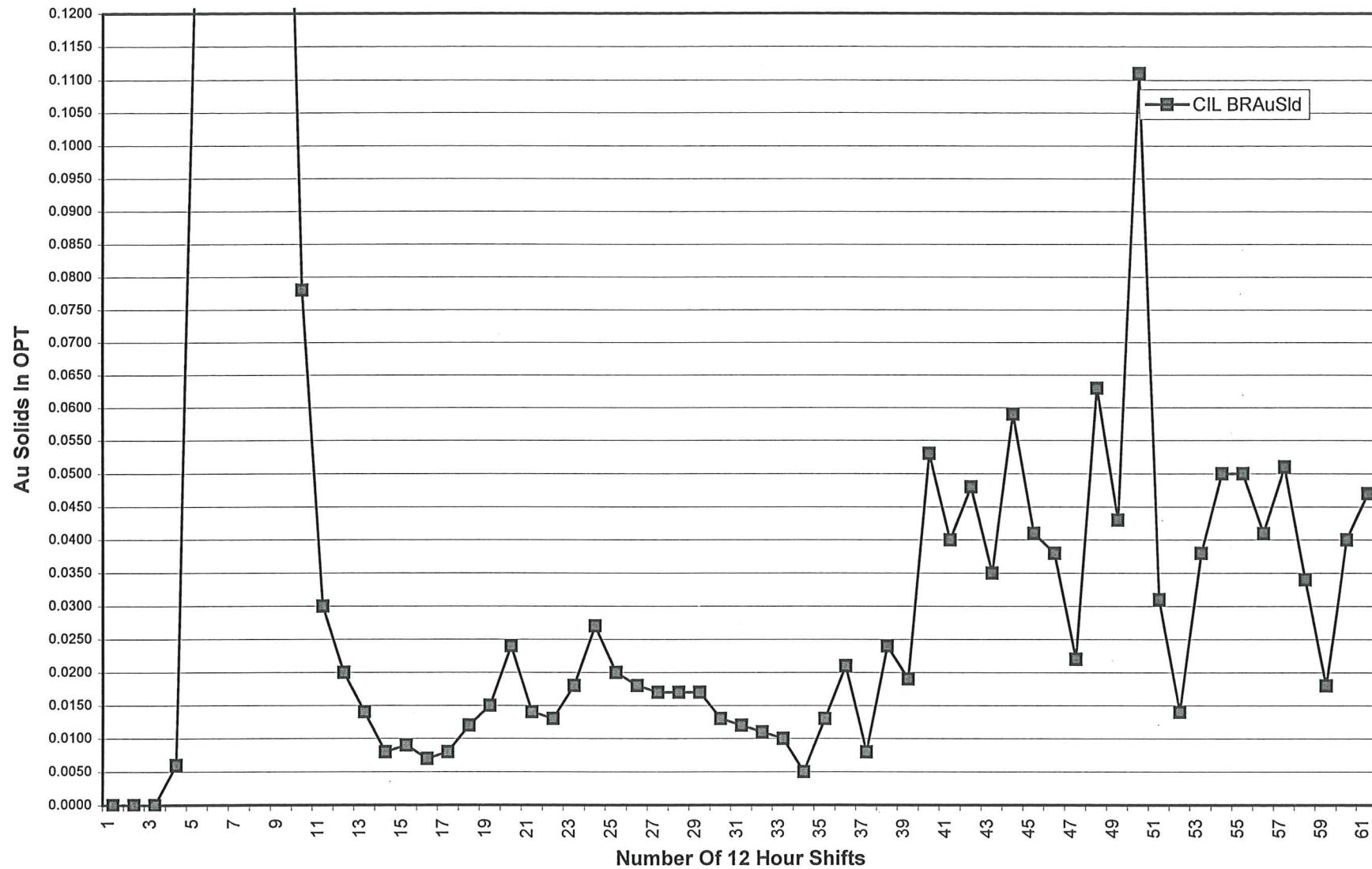
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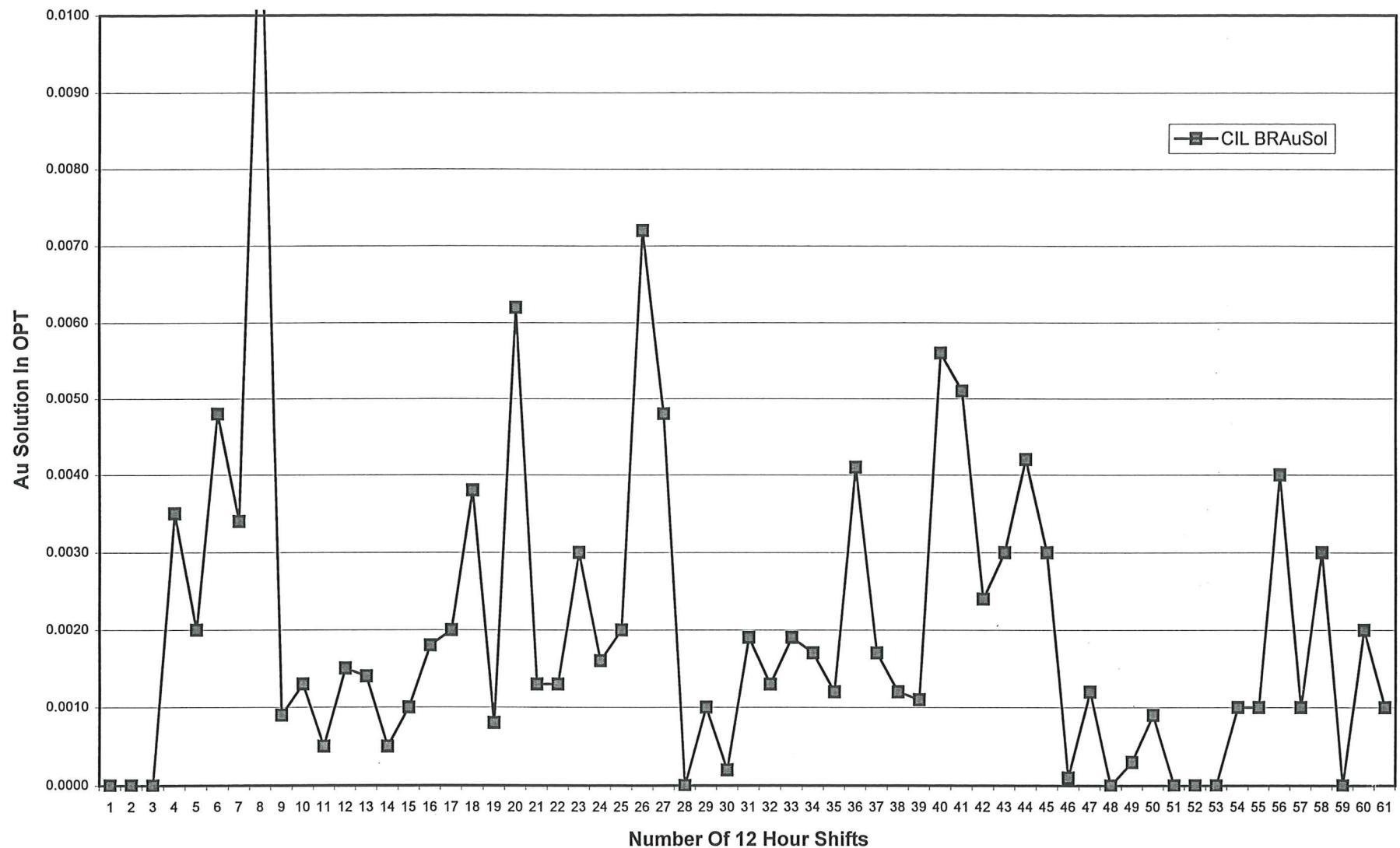
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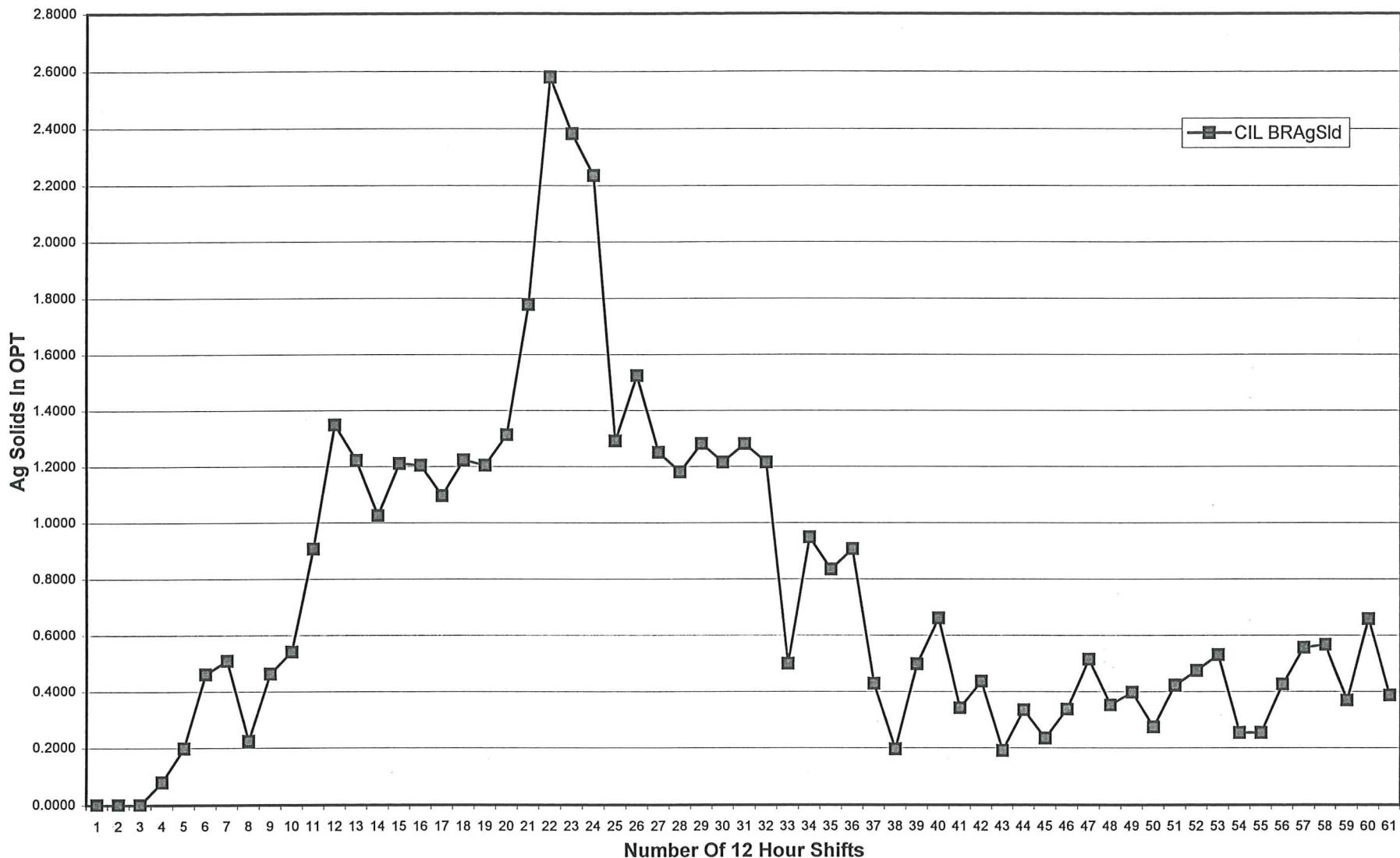
Au CIL Solids Trend - January 99 Lab Split



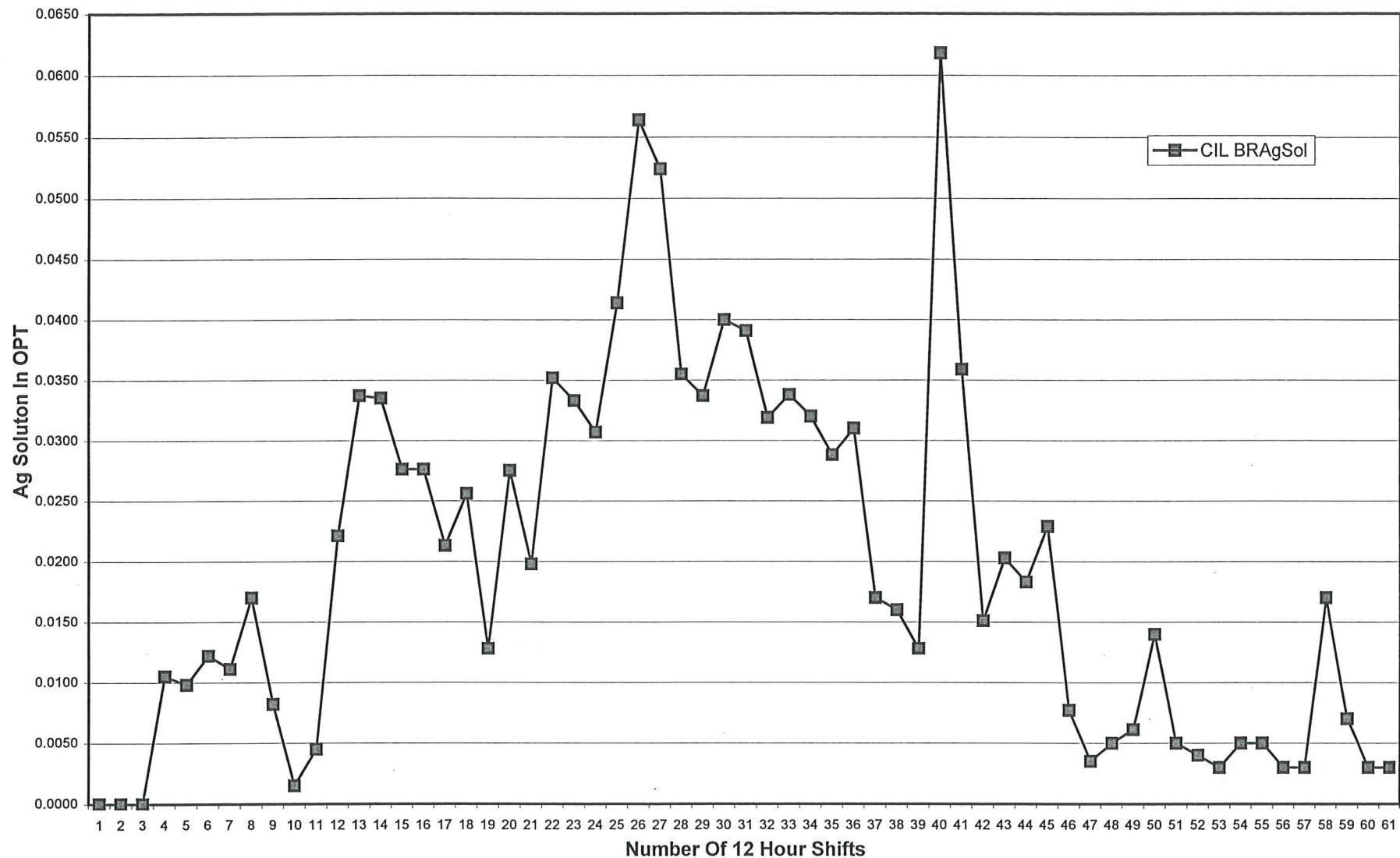
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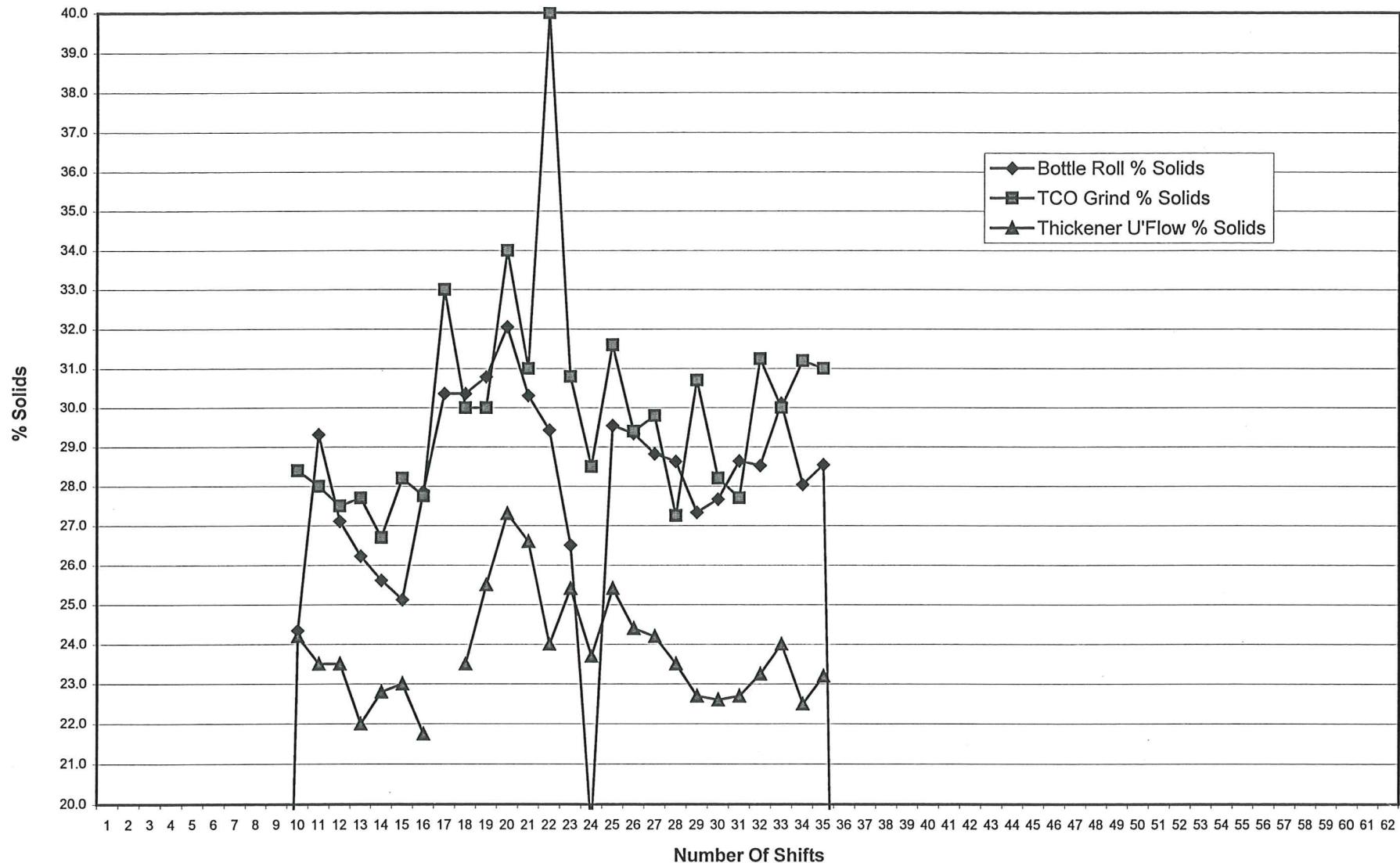
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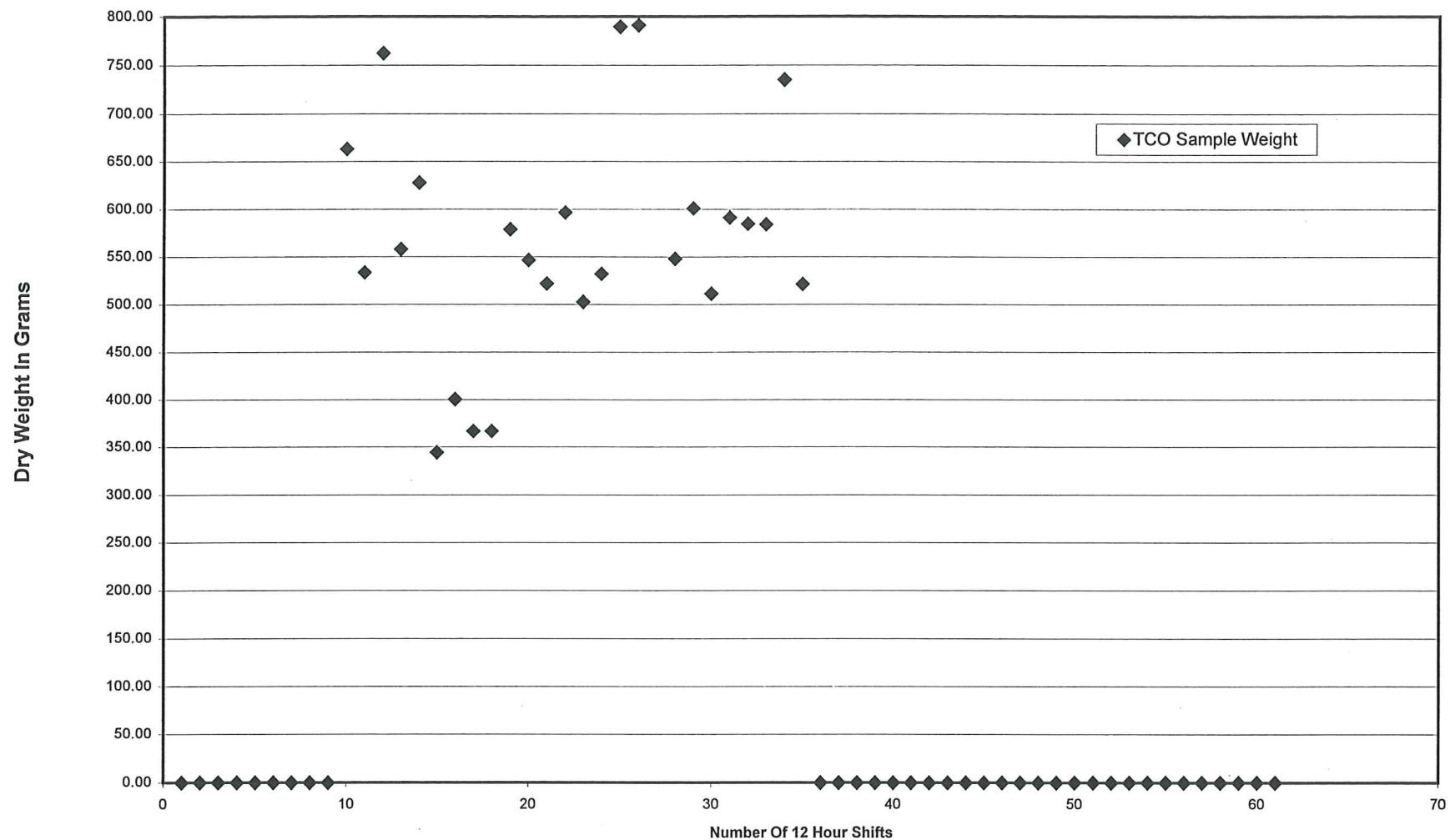
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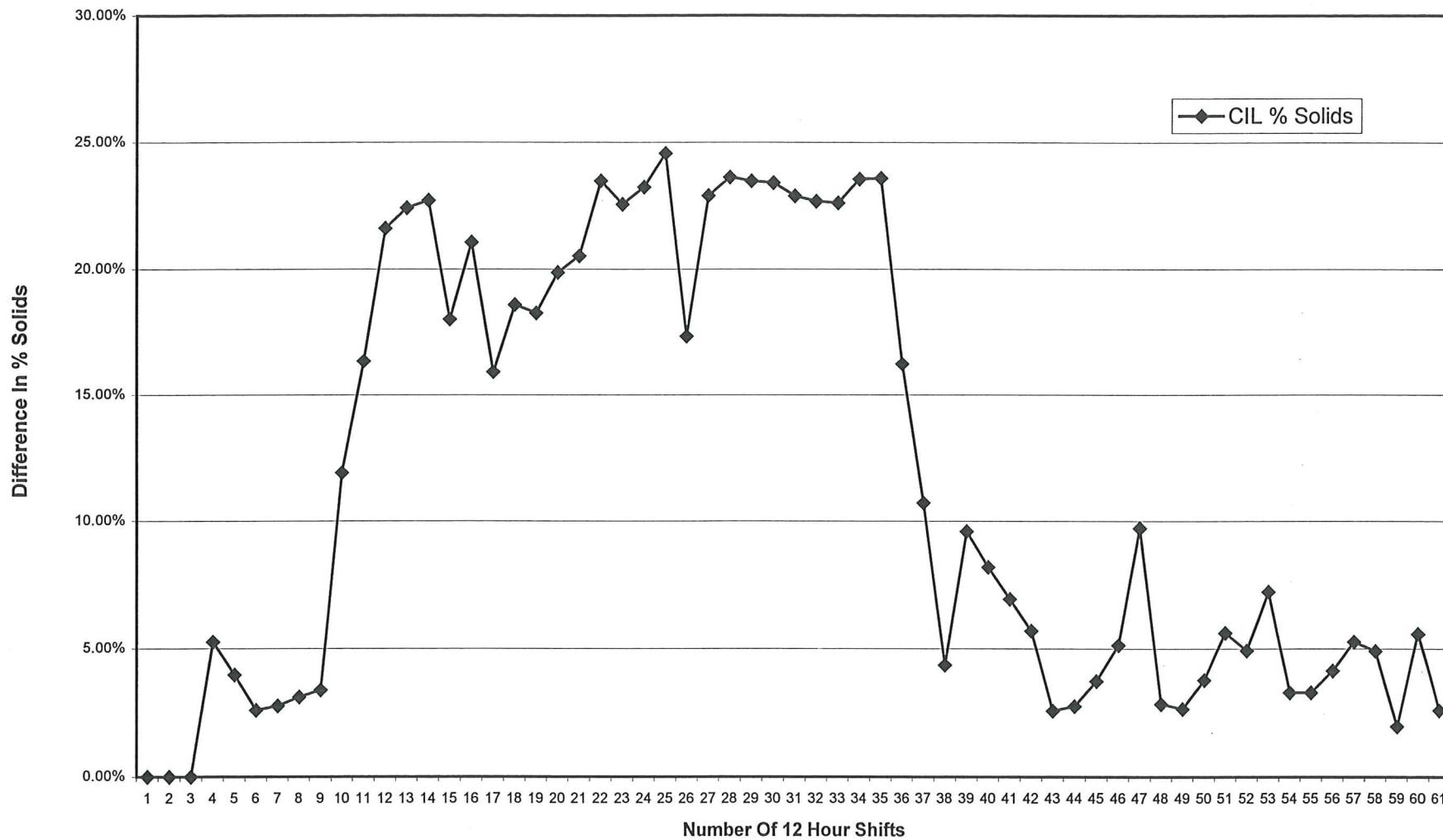
TCO % Solids Comparison January 99



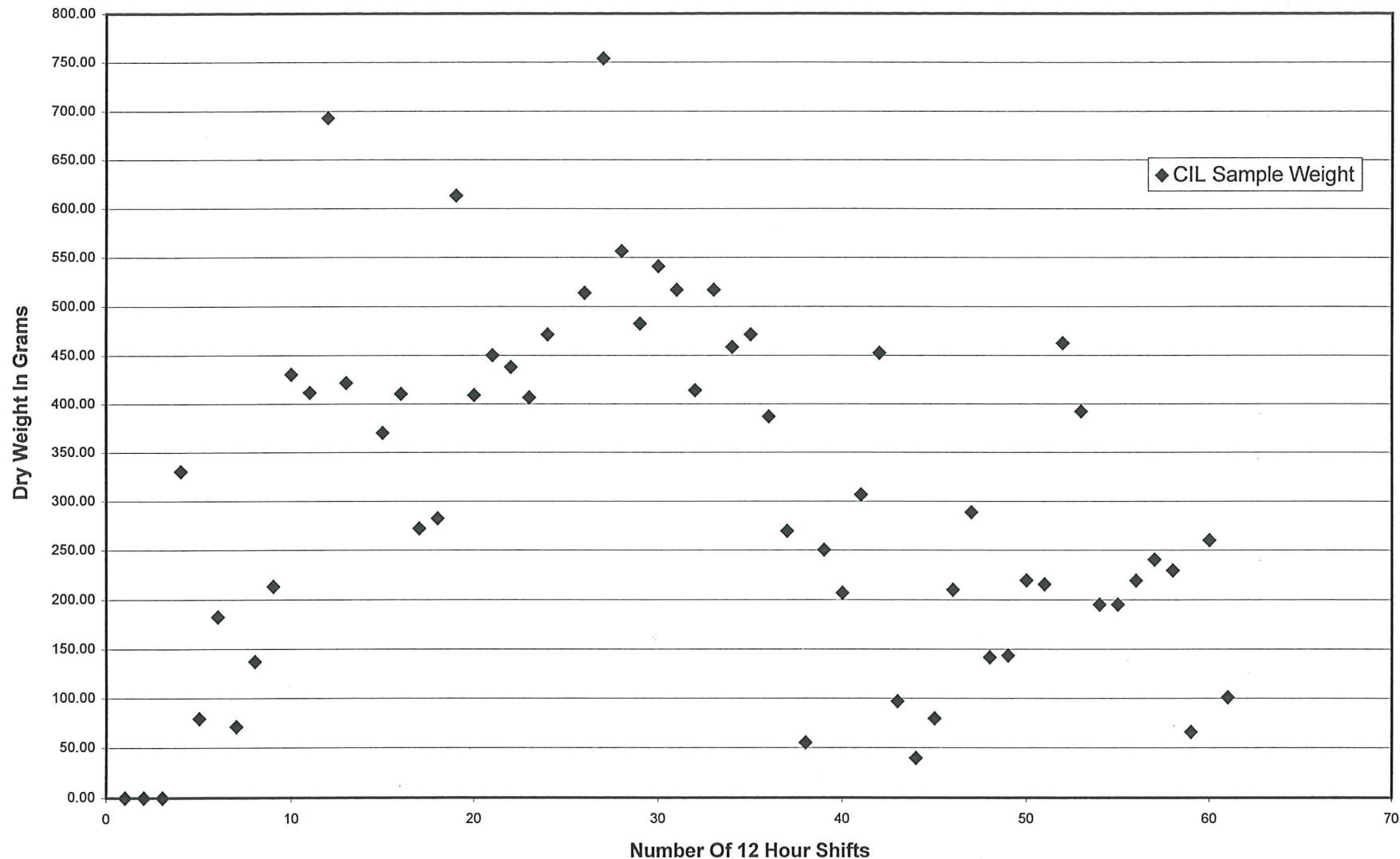
January 99 TCO Bottle Roll Dry Solids Sample Weight



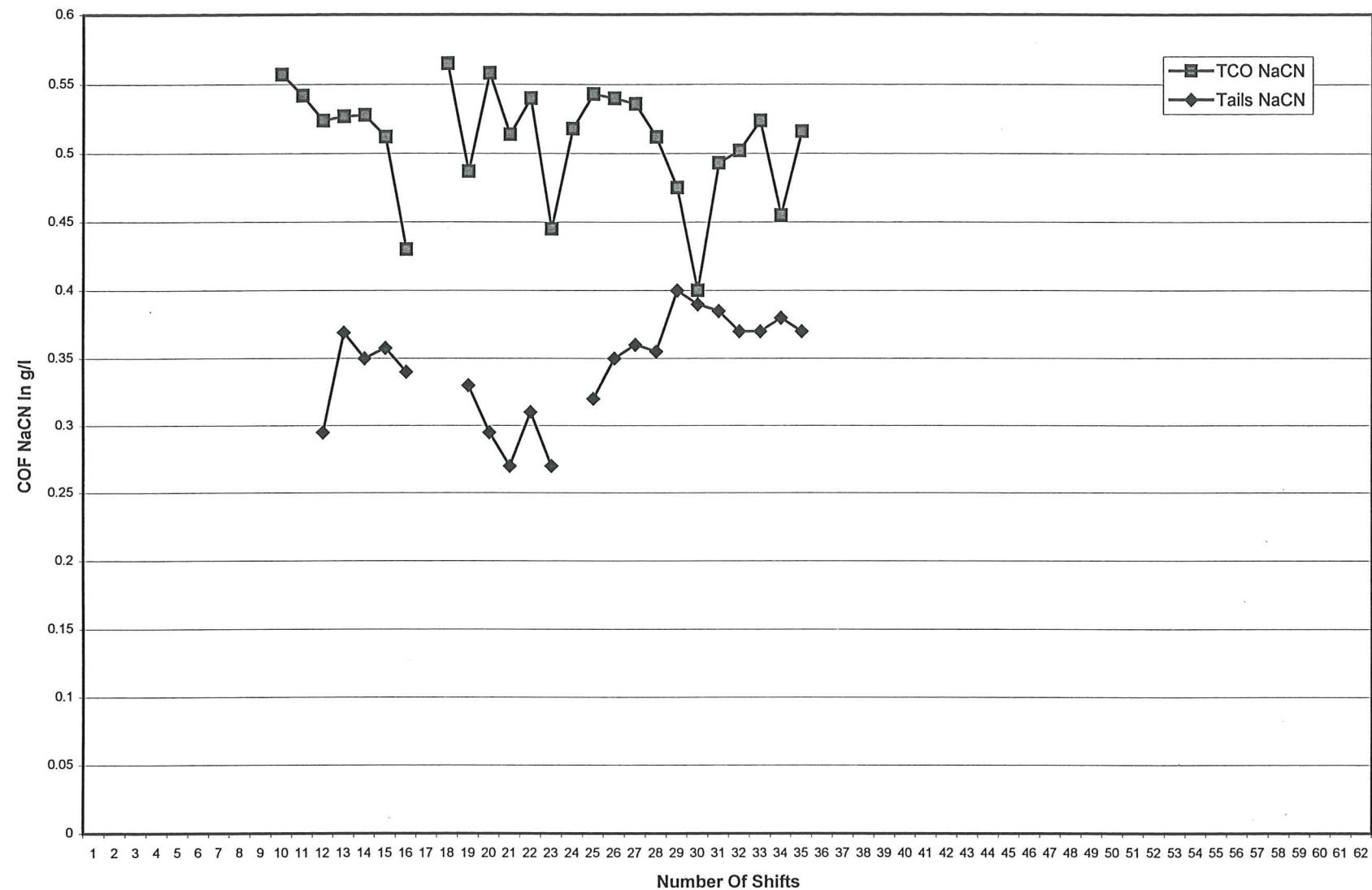
January 99 CIL Tails Lab Split % Solids

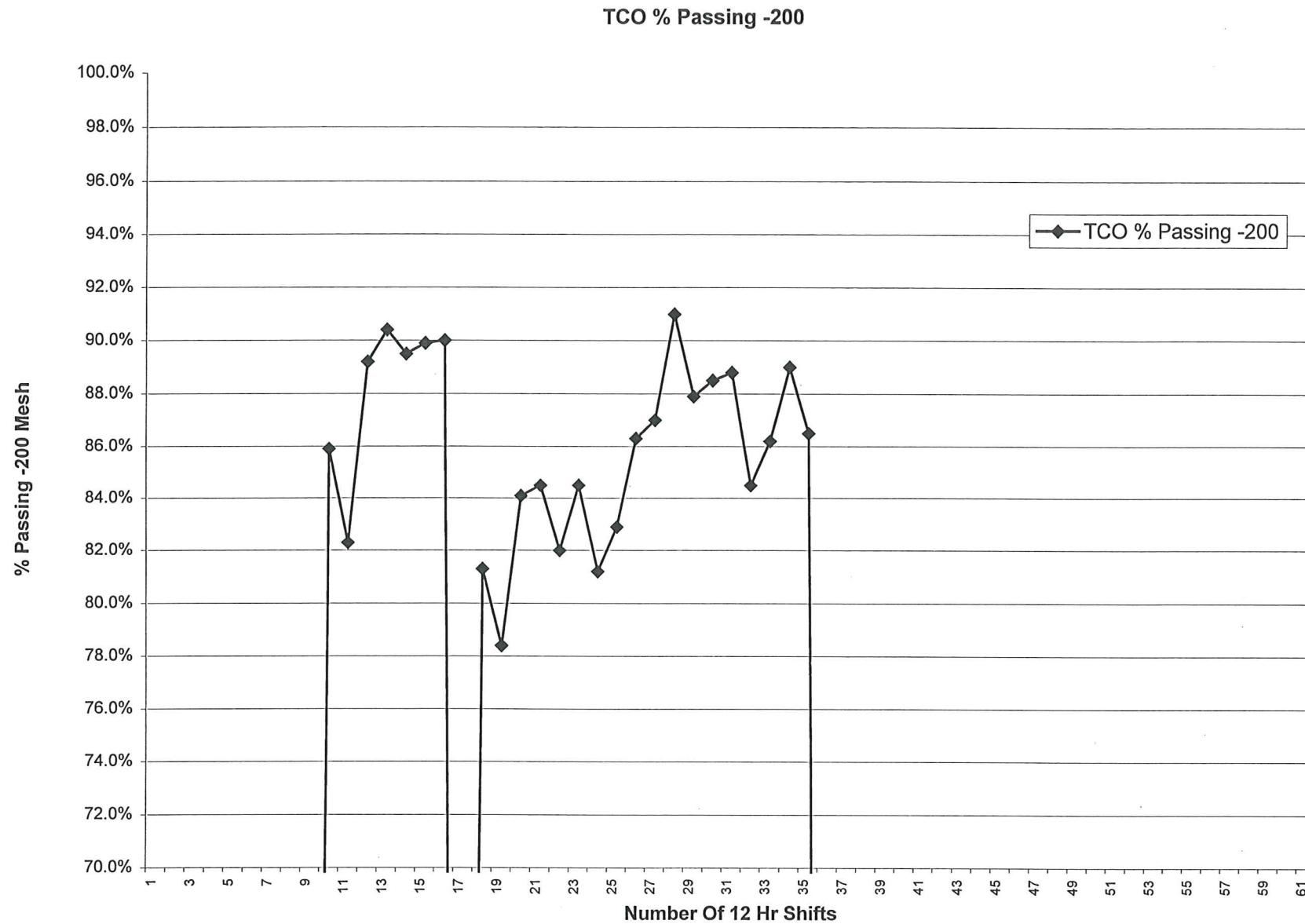


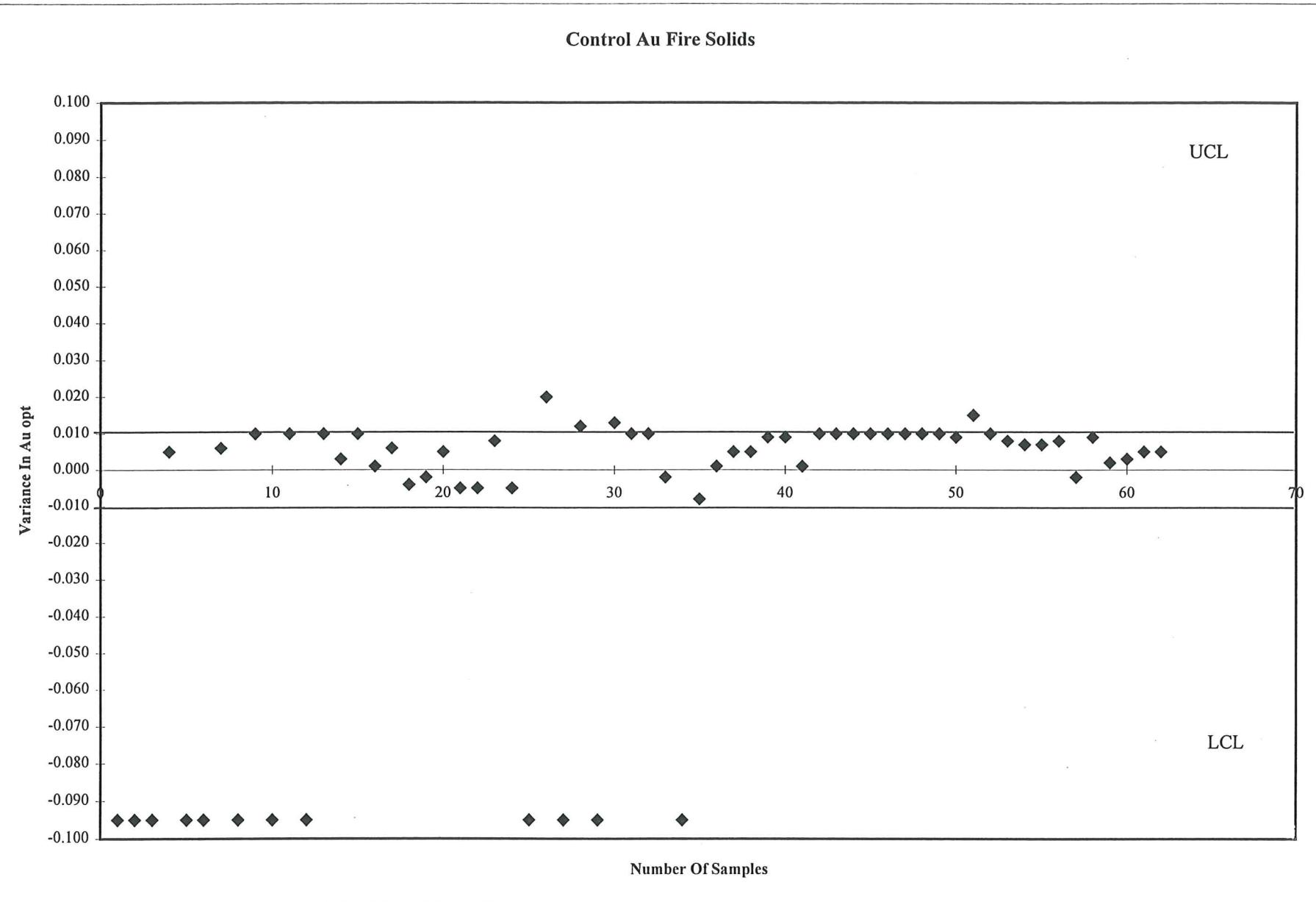
January 99 CIL Lab Split Dry Solids Sample Weight

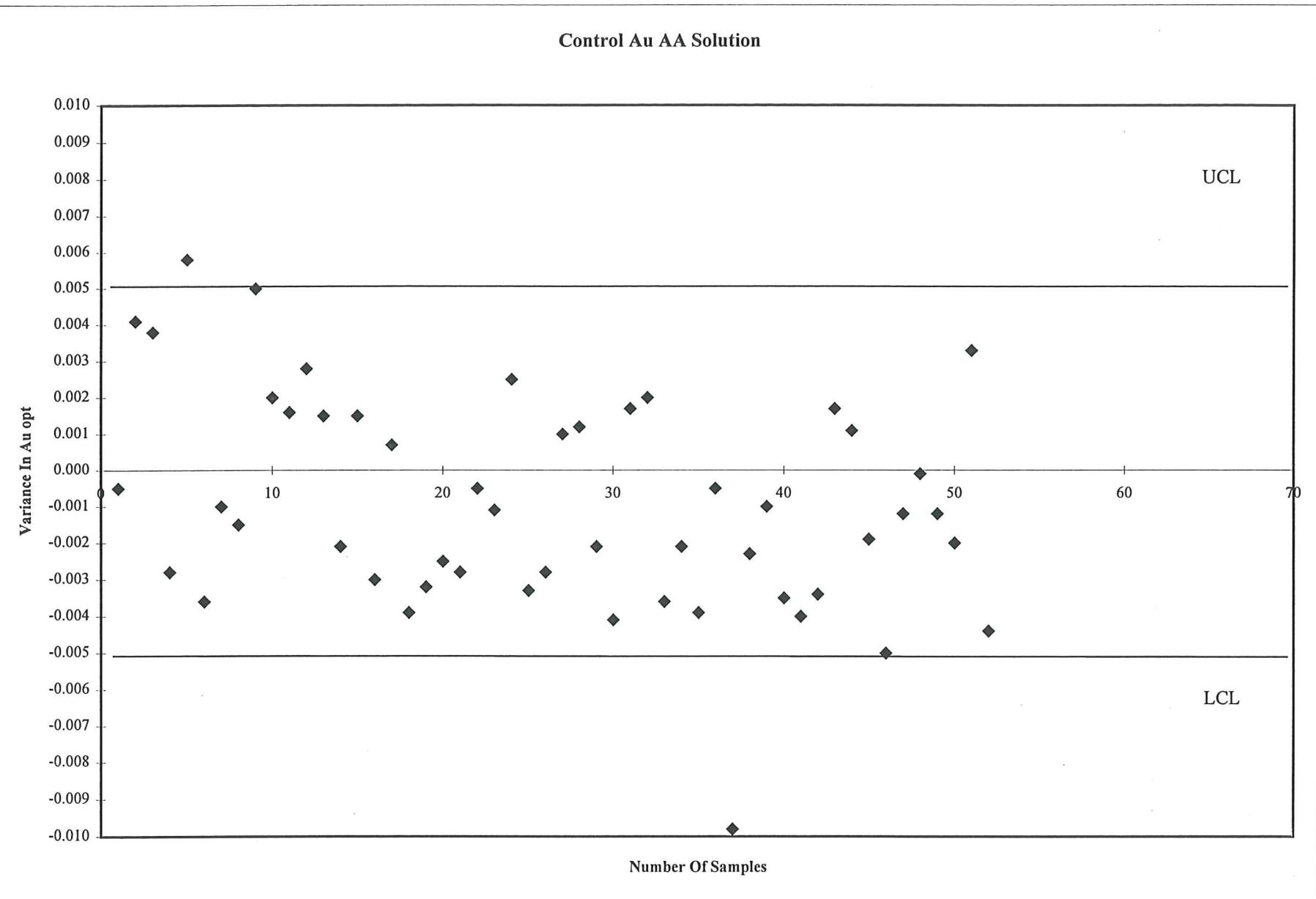


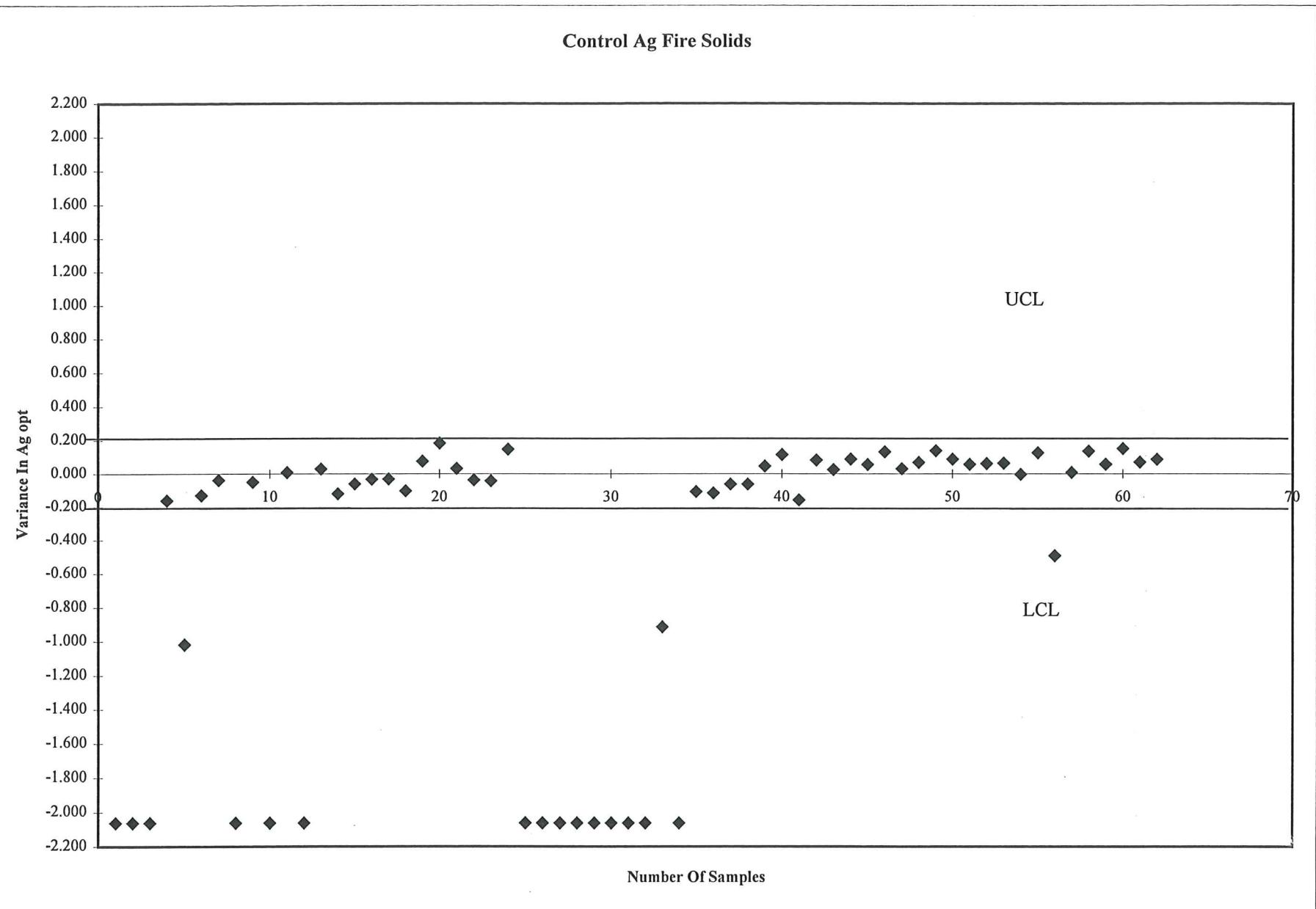
Cyanide Concentration Of Head & Tails Slurries January 99

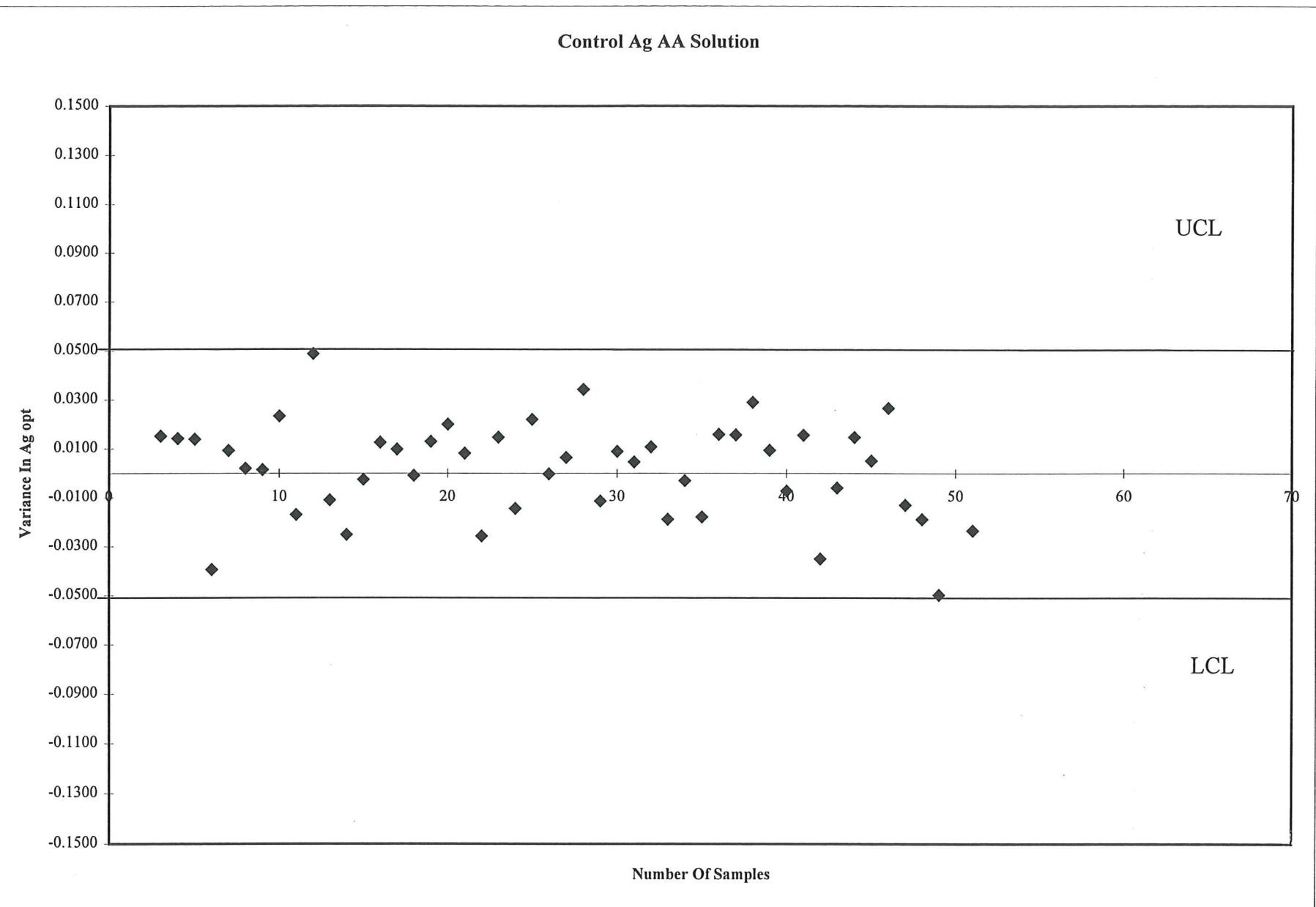












**Newmont Gold Company
Rosebud Mining Company LLC**

To: Ron Clayton
cc: Kurt Allen
Don Cameron

Date: February 10, 1999

Fr: R. B. Vance

Subj: Rosebud Monthly Report: January, 1999

Geology

More than two dozen exploration targets are currently recognized across the Rosebud claim block. The targets are based on hydrothermal alteration (silicification, argillization), rock or soil geochemistry, previous drill hole results, coincident geochemical and IP anomalies, and conceptual ideas relating to favorable stratigraphy and major faults. A standardized form was constructed that lists criteria for various categories (e.g., geology, potential size, proximity to the mine), and each prospect was compiled and evaluated. Informal presentations were made to a panel of multi-disciplinary judges from Newmont and Hecla across two days. At the end of the session, the targets were ranked, resulting in a consensus work program for 1999. A target report will be compiled that documents the ranking process.

The highest-ranking prospects are Near-mine targets, Mother Lode/E. Dreamland/Gold Hill, White Alps, School Bus Canyon, Deep Dreamland, Degerstrom, Valley/Cave fault, Lucky Boy, Chance, Gator, and Brown Palace. At this time, work on South Kamma, Vertex, Wild Rose, Oscar, Short Shot, South Ridge, and Barrel Springs is deferred.

The near-mine targets assembled by Newmont and Hecla staff were also presented and discussed. These targets offer potential for discovering ore adjacent the mine, and will be pursued beginning this month via an underground drilling program executed by Rosebud Mining Co. They include high-grade RC intercepts in the hanging wall of the South Ridge fault (SRF) at the Far East target, apparent feeder structures beneath the East Zone (24 structure and others), and silicified and mineralized carbonaceous phyllite in Mesozoic basement. Flat underground holes will test for steeply dipping mineralized structures that acted as conduits for hydrothermal fluids. The budget will be reallocated to provide additional funds (~25%?) to test these underground targets.

Geochemistry

After presentation of Robert Jackson's geochemistry level plans of the Rosebud deposits, the need is obvious for overlays showing geologic shapes on each respective level. The possibility of primary lithologic control on the geochemical model warrants investigation.

Drilling

Final assays for DRSU-454 (+11, 091°), drilled east from the 2300 access drill station, failed to intersect significant mineralization. Narrow mineralized structures were present within moderate alteration, but gold values were less than 0.02 oz/st.

Near-Mine Exploration

Hecla's underground drill and geology database were downloaded from Surpac into Geomodel. Expansion of the mine model outward to the adjacent exploration holes will help identify new exploration targets within reach of the mine workings.

Permitting

A final 1998 disturbance and reclamation map was completed for filing with the BLM. The map depicts drill sites, roads, and trenches that were constructed and reclaimed during the year within the Exploration Plan of Operation boundary.

Administrative

The project expenditure for January was \$26,439, against a budget of \$36,900.

