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Mining District File Summary Sheet

DISTRICT	Rosebud
DIST_NO	4010
COUNTY	Pershing
If different from written on document	
TITLE	Monthly Progress Report; Rosebud Mine - February 1999 ; March 15, 1999
If not obvious	
AUTHOR	Booth, B; Brown, A; Fudge, T; Cameron, D; Hartman, S; [redacted] P; Walde, L; Kaufman, R; Miller, C; Stilwell, J; Summers, A; Mullin, J; Wilson, E; Wollant, D; Dean, D; Santt, S; Tempel, T; Shumway, L; Lisle, R; Clayton, R; Dunstan, J; Johnson, G; Myrhous, S; Sigurdson, S; Berezney, R
DATE OF DOC(S)	1999
MULTI_DIST	Y / <input checked="" type="checkbox"/> N?
Additional Dist Nos:	
QUAD_NAME	Sulphur 7.5
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; mine map
	46 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)

SS: DD 7/25/08
Initials Date

DB: Initials Date

SCANNED: Initials Date

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4010

HECLA MINING COMPANY

March 15, 1999

MEMORANDUM TO: George Johnson

FROM: Ron Clayton

SUBJECT: Monthly Progress Report
Rosebud Mine – February 1999

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

RWC:lmz

Attachments

cc: Bill Booth

Arthur Brown

Tom Fudge

Don Cameron

Scott Hartman

Mike Callahan

Roger Kauffman - JV Mgmt. Committee

Cindy Miller

John Stilwell

Al Summers

Ed Wilson

Douglas Wollant

Dale Dean

Rick Berezay

Scott Santti - JV Mgmt. Committee

Newmont Gold Company

P.O. Box 669

Carlin, NV 89822

Trent Tempel - JV Mgmt. Committee

Twin Creeks Mine

P.O. Box 69

Golconda, NV 89414

Jim Dunstan - Manager for Milling

Twin Creeks Mine

P.O. Box 69

Golconda, NV 89414

Rick Lisle - Manager for Exploration

Newmont Exploration Limited

861 West Sixth St.

Winnemucca, NV 89445

Patty Bowman - 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 February Monthly Report

MINE PERSONNEL AND SAFETY

Staff

Employment remained unchanged during the month. We have 69 hourly employees and 27 salary employees. Total employment is 96.

Safety

There were no injuries at Rosebud in February. There was a small tractor fire on the morning of February 17, which is still under investigation. Rosebud employees have worked 523 days without an MSHA lost-time injury and 99 days since the lost time due to the van rollover.

OPERATIONS

Development

The development crews advanced the 41 stope access 105 feet, and a panel extension in stope 43 was extended 11 feet. A muckbay of 62 feet was driven in the stope 41 access. A total of 183 feet of development drift was driven in February.

Production

Production from stope #13 was 860 tons at a gold grade of .295 opt and a silver grade of 2.43 opt.

Production from stope #14 was 1,468 tons at a gold grade of .254 opt and a silver grade of 2.50.

Production from stope #22 was 7,944 tons at a gold grade of .358 opt and a silver grade of 4.80 opt.

Production from stope #23 was 101 tons at a gold grade of .089 opt and a silver grade of 1.90 opt.

Production from stope #24 was 3,441 tons at a gold grade of .419 opt and a silver grade of 1.17 opt.

Production from stope #25 was 3,243 tons at a gold grade of 1.939 opt and a silver grade of 2.37 opt.

Production from stope #41 was 1,784 tons at a gold grade of .493 opt and a silver grade of 0.87 opt.

Production from stope #42 was 389 tons at a gold grade of .489 opt and a silver grade of 2.10 opt.

Production from stope #43 was 4,232 tons at a gold grade of .323 opt and a silver grade of 1.18 opt.

♦ Hecla Mining Company Rosebud Mine February Monthly Report

An additional 4,422 tons of waste at a gold grade of .074 opt was mined from the stopes and sorted to the waste pile.

Total ore stockpiled at month's end was 23,362 tons grading .584 Au opt and 2.70 opt silver. Shipment of this material to the Pinon Mill began on February 21.

GEOLOGY

Production

Mine calculated (geology) tonnage and grade for ore shipped during the month of February (January's production – February's milling) was underestimated by 486 tons (2.6%) as compared to survey, and out performed (overestimated) the model by 8,883 ounces of gold (154%).

Mill results have not been received.

Development

A total of ten holes were drilled in stope 25, for a total of 2,185 feet.

Exploration

The first exploration hole (D-340-99) was started from the North Zone decline. Assays are still pending. Newmont Gold's February exploration report is attached.

ENGINEERING

Mine Planning

Stopes 14 and 23 join 21 as completed and mined-out stopes. We will finish the mining of two other stopes during March (stopes 22 and 24). From the East Zone, stopes 42 and 41 will start production in March, joining stope 43. Development of the access will begin in March for stope 44.

Ventilation

31 Vent Raise fan was installed. The bulkhead work was completed and the change in ventilation was initiated. A vent survey was conducted. 90,000 CFM of air is now diverted down the borehole and into the North Zone Access Ramp, thus ventilating stopes 24 and 25. We'll fine-tune the airflow by adjusting the blades on the fan next month.

◆ Hecla Mining Company Rosebud Mine February Monthly Report

Environmental

The BLM came out for their semi-annual inspection. The agency was pleased with the work done on the stormwater ditch and had no detrimental comments on the operation. They also went underground to look at the backfilling process, ostensibly to look at the cement used in the process for mitigating future acid rock generation. There were no permit exceedances for the month.

Batch Plant

A total of 12,719 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		817 tons		817 tons
Stope 22		3,139 tons	428 tons	3,567 tons
Stope 24		2,566 tons		2,566 tons
Stope 25		2,234 tons	3,535 tons	5,769 tons
Total	0 tons	8,756 tons	3,963 tons	12,719 tons

Other

One person was off for the entire month for a non-occupational injury. The State performed their annual inspection of the scale system and it initially failed due to mud build-up under the beams. Once this was cleaned out, the scale passed with flying colors.

◆ Hecla Mining Company Rosebud Mine February Monthly Report

PERFORMANCE

There was no capitalized cost during February. Capitalized costs year-to-date total \$99,818. There has been no expensed discretionary cost so far this year.

The mine produced 23,362 ore tons during February, 857 less than budget. The gold grade mined was 0.584 opt, 0.229 better than budget. The silver grade was 2.70 opt, which was 0.45 better than budget. Year to date mine production is 44,840 ore tons, 5,282 less than budget, at a gold grade of 0.560 opt, 0.213 opt better than budget, and a silver grade of 2.41opt, 0.14 opt better than budget.

During February, the mill recovered 10,835 gold ounces and 25,552 silver ounces, 2,388 more gold ounces and 6,946 less silver ounces than budget. Recoveries during the month were 96.8% for gold and 62.1% for silver which is 0.9 better and 7.1% better than budget, respectively.

Year-to-date, the mill has recovered 19,782 gold ounces and 73,137 silver ounces, 2,888 more gold ounces and 8,141 more silver ounces than budget. Year-to-date recoveries are 95.6% for gold and 59.1% for silver, which is 0.3% worse and 4.1% better than budget, respectively.

Production costs for February totaled \$1,752,446 (\$75.02 per ore ton mined), \$85,984 less than budget (\$0.90 per ore ton better than budget). Year-to-date production costs total \$3,119,250 (\$69.56 per ore ton mined), \$750,881 less than budget (\$7.66 per ore ton better than budget).

Exploration costs for February totaled \$56,153, which is 1,447 less than budget. Year-to-date exploration costs total \$82,592, which is \$11,908, less than budget.

The per gold ounce produced costs achieved during February were:

• Cash operating cost per gold ounce	\$ 150.37	\$ 48.88 less than budget
• Total cash cost per gold ounce	\$ 169.50	\$ 46.64 less than budget
• Total production cost per gold ounce	\$ 240.90	\$ 46.80 less than budget

The per gold ounce produced costs achieved year-to-date are:

• Cash operating cost per gold ounce	\$ 139.91	\$ 70.57 less than budget
• Total cash cost per gold ounce	\$ 158.56	\$ 68.24 less than budget
• Total production cost per gold ounce	\$ 230.47	\$ 67.89 less than budget

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

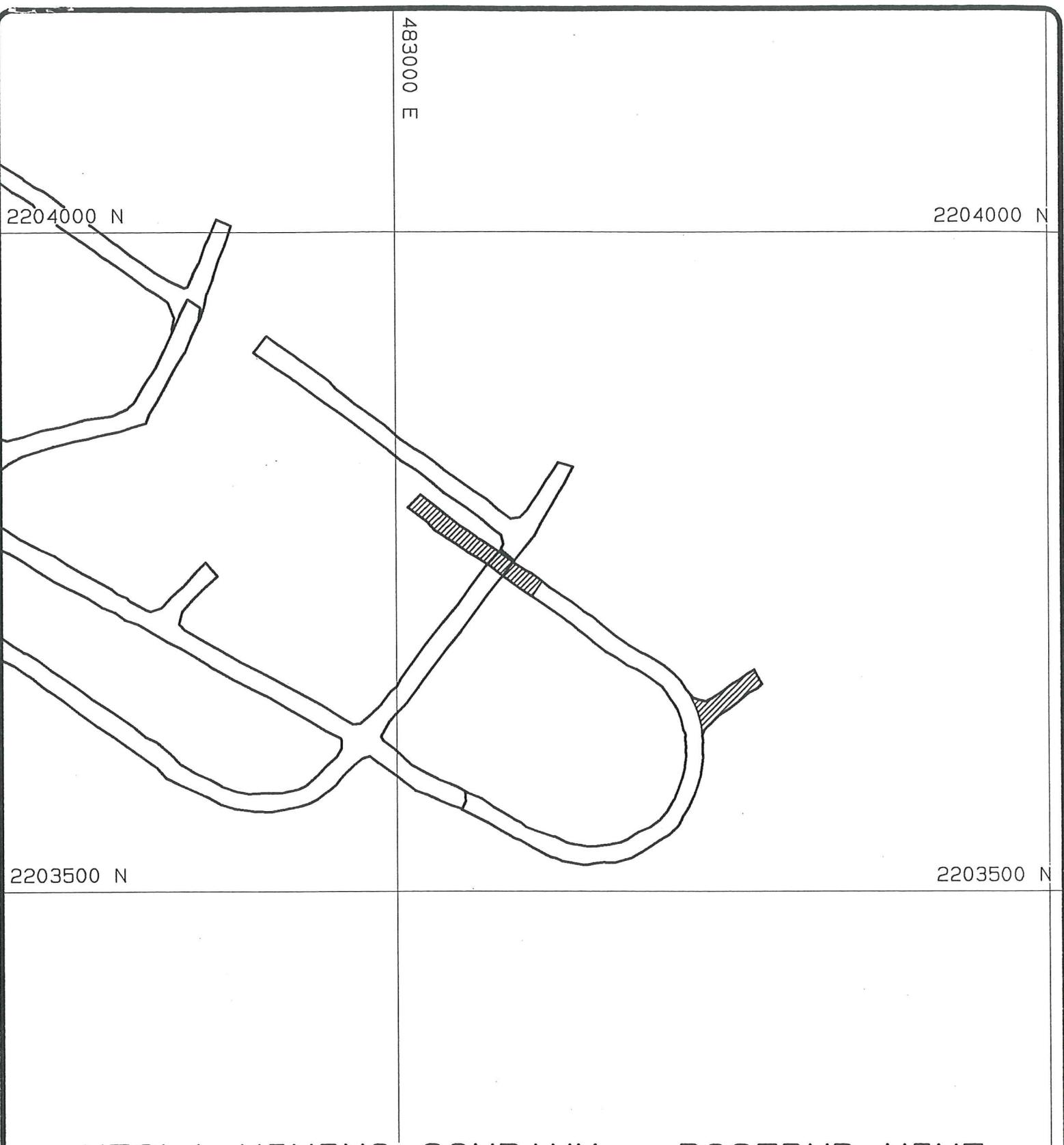
	February 1999			MONTH			QUARTER TO DATE			YEAR TO DATE		
	Actual	Budget	Variance	Actual	Budget	Variance	Actual	Budget	Variance	Actual	Budget	Variance
Gross production value (GPV)	\$ 3,254,924	\$ 2,712,839	\$ 542,085	\$ 6,068,948	\$ 5,425,678	\$ 643,270	\$ 6,068,948	\$ 5,425,678	\$ 643,270			
Less: Euro Nevada royalty	(130,197)	(108,514)	(21,683)	(242,758)	(217,028)	(25,730)	(242,758)	(217,028)	(25,730)			
Less: Shipping and refining	(15,774)	(16,378)	604	(30,572)	(32,756)	2,184	(30,572)	(32,756)	2,184			
Net production value	3,108,953	2,587,947	521,006	5,795,618	5,175,894	619,724	5,795,618	5,175,894	619,724			
Cost of production												
Mine production costs	483,163	508,599	25,436	1,024,235	1,052,562	28,327	1,024,235	1,052,562	28,327			
Fixed mining costs	199,907	200,075	168	407,610	400,150	(7,460)	407,610	400,150	(7,460)			
L.L.C. Development	39,820	30,800	(9,020)	90,990	209,300	118,310	90,990	209,300	118,310			
Milling costs	480,793	449,649	(31,144)	740,216	929,991	189,775	740,216	929,991	189,775			
Trucking and site processing	178,603	273,318	94,715	377,414	546,636	169,222	377,414	546,636	169,222			
Site and general administration	181,485	228,325	46,840	375,493	468,050	92,557	375,493	468,050	92,557			
Geology	44,520	40,100	(4,420)	94,632	80,200	(14,432)	94,632	80,200	(14,432)			
Delineation drilling	2,379	25,000	22,621	2,379	35,000	32,621	2,379	35,000	32,621			
Engineering	30,121	35,800	5,679	60,477	71,600	11,123	60,477	71,600	11,123			
Change in ore stockpile and in-circuit inventory	111,655	46,764	(64,891)	(54,196)	76,642	130,838	(54,196)	76,642	130,838			
Total cost of production	1,752,446	1,838,430	85,984	3,119,250	3,870,131	750,881	3,119,250	3,870,131	750,881			
Other costs												
Property taxes	7,500	10,000	2,500	15,000	20,000	5,000	15,000	20,000	5,000			
Net proceeds taxes	77,124	34,155	(42,969)	126,082	58,646	(67,436)	126,082	58,646	(67,436)			
Reclamation expense	24,088	25,556	1,468	51,589	51,112	(477)	51,589	51,112	(477)			
Interest (income)	(4,766)	(6,500)	(1,734)	(9,755)	(13,000)	(3,245)	(9,755)	(13,000)	(3,245)			
(Gain) loss on the sale of fixed assets	-	3,500	3,500	-	3,500	3,500	-	3,500	3,500			
Depreciation	749,509	578,923	(170,586)	1,370,983	1,157,846	(213,137)	1,370,983	1,157,846	(213,137)			
Total other costs	853,455	645,634	(207,821)	1,553,899	1,278,104	(275,795)	1,553,899	1,278,104	(275,795)			
Total operating costs												
Exploration expenditures	2,605,901	2,484,064	(121,837)	4,673,149	5,148,235	475,086	4,673,149	5,148,235	475,086			
Discretionary expenditures	56,153	57,600	1,447	82,592	94,500	11,908	82,592	94,500	11,908			
Total costs	2,662,054	2,541,664	(120,390)	4,755,741	5,242,735	486,994	4,755,741	5,242,735	486,994			
Net income (loss) to Exhibit B	\$ 446,899	\$ 46,283	\$ 400,616	\$ 1,039,877	\$ (66,841)	\$ 1,106,718	\$ 1,039,877	\$ (66,841)	\$ 1,106,718			
Cash operating cost per gold ounce	\$ 150.37	\$ 199.25	\$ 48.88	\$ 139.91	\$ 210.48	\$ 70.57	\$ 139.91	\$ 210.48	\$ 70.57			
Total cash costs per gold ounce	\$ 169.50	\$ 216.14	\$ 46.64	\$ 158.56	\$ 226.80	\$ 68.24	\$ 158.56	\$ 226.80	\$ 68.24			
Total production costs per gold ounce	\$ 240.90	\$ 287.70	\$ 46.80	\$ 230.47	\$ 298.36	\$ 67.89	\$ 230.47	\$ 298.36	\$ 67.89			
Summary of Production												
Tons of ore mined:	23,362	24,219	(857)	44,840	50,122	(5,282)	44,840	50,122	(5,282)			
Gold - ounces per ton	0.584	0.355	0.229	0.560	0.347	0.213	0.560	0.347	0.213			
Silver - ounces per ton	2.70	2.25	0.45	2.41	2.27	0.14	2.41	2.27	0.14			
Tons of ore milled:	21,478	25,903	(4,425)	46,000	51,806	(5,806)	46,000	51,806	(5,806)			
Gold - ounces per ton	0.533	0.340	0.193	0.500	0.340	0.160	0.500	0.340	0.160			
Silver - ounces per ton	2.09	2.28	(0.19)	2.76	2.28	0.48	2.76	2.28	0.48			
Mill recovery rate - gold	96.8%	95.9%	0.9%	95.6%	95.9%	-0.3%	95.6%	95.9%	-0.3%			
Mill recovery rate - silver	62.1%	55.0%	7.1%	59.1%	55.0%	4.1%	59.1%	55.0%	4.1%			
Products produced:												
Gold - ounces	10,835	8,447	2,388	19,782	16,894	2,888	19,782	16,894	2,888			
Silver - ounces	25,552	32,498	(6,946)	73,137	61,996	8,141	73,137	64,996	8,141			
Adjustment to products produced:												
Gold - ounces	-	-	-	-	-	-	-	-	-			
Silver - ounces	-	-	-	-	-	-	-	-	-			
Employees at end of period:												
Hourly	69	75	6	69	75	6	69	75	6			
Salary	27	27	-	27	27	-	27	27	-			
Capitalized expenditures	\$ -	\$ 220,000	\$ 220,000	\$ 99,818	\$ 270,000	\$ 170,182	\$ 99,818	\$ 270,000	\$ 170,182			

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

	February 1999			MONTII			QUARTER TO DATE			YEAR TO DATE		
	Actual	Budget	Variance	Actual	Budget	Variance	Actual	Budget	Variance	Actual	Budget	Variance
Gross production value (GPV)	\$ 139.33	\$ 112.01	\$ 27.32	\$ 135.35	\$ 108.25	\$ 27.10	\$ 135.35	\$ 108.25	\$ 27.10	\$ 135.35	\$ 108.25	\$ 27.10
Less: Euro Nevada royalty	(5.57)	(4.48)	(1.09)	(5.41)	(4.33)	(1.08)	(5.41)	(4.33)	(1.08)	(5.41)	(4.33)	(1.08)
Less: Shipping and refining	(0.68)	(0.68)	-	(0.68)	(0.65)	(0.03)	(0.68)	(0.65)	(0.03)	(0.68)	(0.65)	(0.03)
Net production value	133.08	106.85	26.23	129.26	103.27	25.99	129.26	103.27	25.99	129.26	103.27	25.99
Cost of production												
Mine production costs	20.68	21.00	0.32	22.84	21.00	(1.84)	22.84	21.00	(1.84)	22.84	21.00	(1.84)
Fixed mining costs	8.56	8.26	(0.30)	9.09	7.98	(1.11)	9.09	7.98	(1.11)	9.09	7.98	(1.11)
L.L.C. Development	1.70	1.27	(0.43)	2.03	4.18	2.15	2.03	4.18	2.15	2.03	4.18	2.15
Milling costs	20.58	18.57	(2.01)	16.51	18.55	2.04	16.51	18.55	2.04	16.51	18.55	2.04
Trucking and site processing	7.65	11.29	3.64	8.42	10.91	2.49	8.42	10.91	2.49	8.42	10.91	2.49
Site and general administration	7.77	9.43	1.66	8.37	9.34	0.97	8.37	9.34	0.97	8.37	9.34	0.97
Geology	1.91	1.66	(0.25)	2.11	1.60	(0.51)	2.11	1.60	(0.51)	2.11	1.60	(0.51)
Delineation drilling	0.10	1.03	0.93	0.05	0.70	0.65	0.05	0.70	0.65	0.05	0.70	0.65
Engineering	1.29	1.48	0.19	1.35	1.43	0.08	1.35	1.43	0.08	1.35	1.43	0.08
Change in ore stockpile and in-circuit inventory	4.78	1.93	(2.85)	(1.21)	1.53	2.74	(1.21)	1.53	2.74	(1.21)	1.53	2.74
Total cost of production	75.02	75.92	0.90	69.56	77.22	7.66	69.56	77.22	7.66	69.56	77.22	7.66
Other costs												
Property taxes	0.32	0.41	0.09	0.33	0.40	0.07	0.33	0.40	0.07	0.33	0.40	0.07
Net proceeds taxes	3.30	1.41	(1.89)	2.81	1.17	(1.64)	2.81	1.17	(1.64)	2.81	1.17	(1.64)
Reclamation expense	1.03	1.06	0.03	1.15	1.02	(0.13)	1.15	1.02	(0.13)	1.15	1.02	(0.13)
Interest (income)	(0.20)	(0.27)	(0.07)	(0.22)	(0.26)	(0.04)	(0.22)	(0.26)	(0.04)	(0.22)	(0.26)	(0.04)
(Gain) loss on the sale of fixed assets	-	0.14	0.14	-	0.07	0.07	-	0.07	0.07	-	0.07	0.07
Depreciation	32.08	23.90	(8.18)	30.57	23.10	(7.47)	30.57	23.10	(7.47)	30.57	23.10	(7.47)
Total other costs	36.53	26.65	(9.88)	34.64	25.50	(9.11)	34.64	25.50	(9.11)	34.64	25.50	(9.14)
Total operating costs	111.55	102.57	(8.98)	104.20	102.72	(1.48)	104.20	102.72	(1.48)	104.20	102.72	(1.48)
Exploration expenditures	2.40	2.38	(0.02)	1.84	1.89	0.05	1.84	1.89	0.05	1.84	1.89	0.05
Discretionary expenditures	-	-	-	-	-	-	-	-	-	-	-	-
Total costs	113.95	104.95	(9.00)	106.04	104.61	(1.43)	106.04	104.61	(1.43)	106.04	104.61	(1.43)
Net income (loss) to Exhibit B	\$ 19.13	\$ 1.90	\$ 17.23	\$ 23.22	\$ (1.34)	\$ 24.56	\$ 23.22	\$ (1.34)	\$ 24.56	\$ 23.22	\$ (1.34)	\$ 24.56
Cash operating cost per gold ounce	\$ 150.37	\$ 199.25	\$ 48.88	\$ 139.91	\$ 210.48	\$ 70.57	\$ 139.91	\$ 210.48	\$ 70.57	\$ 139.91	\$ 210.48	\$ 70.57
Total cash costs per gold ounce	\$ 169.50	\$ 216.14	\$ 46.64	\$ 158.56	\$ 226.80	\$ 68.24	\$ 158.56	\$ 226.80	\$ 68.24	\$ 158.56	\$ 226.80	\$ 68.24
Total production costs per gold ounce	\$ 240.90	\$ 287.70	\$ 46.80	\$ 230.47	\$ 298.36	\$ 67.89	\$ 230.47	\$ 298.36	\$ 67.89	\$ 230.47	\$ 298.36	\$ 67.89
Summary of Production												
Tons of ore mined:	23,362	24,219	(857)	41,840	50,122	(5,282)	44,840	50,122	(5,282)	44,840	50,122	(5,282)
Gold - ounces per ton	0.584	0.355	0.229	0.560	0.347	0.213	0.560	0.347	0.213	0.560	0.347	0.213
Silver - ounces per ton	2.70	2.25	0.45	2.41	2.27	0.14	2.41	2.27	0.14	2.41	2.27	0.14
Tons of ore milled:	21,478	25,903	(4,425)	46,000	51,806	(5,806)	46,000	51,806	(5,806)	46,000	51,806	(5,806)
Gold - ounces per ton	0.533	0.340	0.193	0.500	0.340	0.160	0.500	0.340	0.160	0.500	0.340	0.160
Silver - ounces per ton	2.09	2.28	(0.19)	2.76	2.28	0.48	2.76	2.28	0.48	2.76	2.28	0.48
Mill recovery rate - gold	96.8%	95.9%	0.9%	95.6%	95.9%	-0.3%	95.6%	95.9%	-0.3%	95.6%	95.9%	-0.3%
Mill recovery rate - silver	62.1%	55.0%	7.1%	59.1%	55.0%	4.1%	59.1%	55.0%	4.1%	59.1%	55.0%	4.1%
Products produced:												
Gold - ounces	10,835	8,447	2,388	19,782	16,894	2,888	19,782	16,894	2,888	19,782	16,894	2,888
Silver - ounces	25,552	32,498	(6,946)	73,137	64,996	8,141	73,137	64,996	8,141	73,137	64,996	8,141
Adjustment to products produced:												
Gold - ounces	-	-	-	-	-	-	-	-	-	-	-	-
Silver - ounces	-	-	-	-	-	-	-	-	-	-	-	-
Employees at end of period:												
Hourly	69	75	6	69	75	6	69	75	6	69	75	6
Salary	27	27	-	27	27	-	27	27	-	27	27	-
Capitalized expenditures	\$ -	\$ 220,000	\$ 220,000	\$ 99,818	\$ 270,000	\$ 170,182	\$ 99,818	\$ 270,000	\$ 170,182	\$ 99,818	\$ 270,000	\$ 170,182

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**The Rosebud Mining Company, LLC
 Hecla Mining Company, Operator
 Discretionary Cost Statement
 (LLC Agreement Basis of Accounting)**

February 1999	MONTH			YEAR TO DATE			INCEPTION TO DATE		
	Actual	Budget	Variance	Actual	Budget	Variance	Actual	Budget	Variance
Capitalized Discretionary									
Total Capital Spending through 1998	-	-	-	-	-	-	18,977,867	25,615,591	6,637,724
Vehicles:									
Light pickup trucks (0402) 92-2210-672	-	20,000	20,000	-	20,000	20,000	-	20,000	20,000
Equipment:									
Water Well #4 (0402) 92-2210-605	-	-	-	-	-	-	-	-	-
U/G equipment (0402) 92-2210-xxx	-	-	-	-	-	-	-	-	-
Development:									
U/G development (0401) 92-2110-xxx and (0402) 92	-	200,000	200,000	99,818	250,000	150,182	99,818	250,000	150,182
Total Capitalized Discretionary	\$ -	\$ 220,000	\$ 220,000	\$ 99,818	\$ 270,000	\$ 170,182	\$ 19,077,685	\$ 25,885,591	\$ 6,807,906
Expensed Discretionary									
Total Discretionary Spending through 1998	-	-	-	-	-	-	405,140	407,506	2,366
Bioremediation Site (9126) 99-0001-xxx	-	-	-	-	-	-	-	-	-
Underground equipment rebuilds (9126) 99-0002-xxx	-	-	-	-	-	-	-	-	-
Total Expensed Discretionary	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 405,140	\$ 407,506	\$ 2,366



HECLA MINING COMPANY - ROSEBUD MINE

February 1999
Development

DATE:

08-Mar-99

DRAWN BY:

mjb

**Newmont Gold Company
Rosebud Mining Company LLC**

To: Ron Clayton
cc: Kurt Allen
Don Cameron

Date: March 8, 1999

Fr: R. B. Vance

Subj: Rosebud Monthly Report: February, 1999

Geology

A two-day technical review of 26 Rosebud exploration targets was held in Winnemucca on February 3-4. The purpose of the review was to rate and rank targets according to their technical merits, and to insure that the highest priority targets receive manpower and funding in 1999. A review committee of 14 people helped the joint venture partners achieve a consensus for the 1999 exploration program.

The prospects were divided into two types: *Advanced*, and *Needs More Work*. *Advanced* prospects generally have drill holes and/or identified drill targets, whereas the *Needs More Work* prospects require additional mapping, sampling, or data analysis prior to reaching the next decision point. The highest ranking *Advanced* targets is Near-Mine, which consists of eight specific underground drill targets, followed by Mother Lode, White Alps, and North Equinox. The highest ranking *Needs More Work* targets are School Bus Canyon, Deep Dreamland, Degerstrom, Valley, Lucky Boy, Chance, Gator and Brown Palace. The rating and ranking process and final results will be documented in a lengthy report which will be circulated.

Following the review, geologists were assigned specific prospects to evaluate, and a project time line was developed which ties the planned work to specific decision points. As targets are tested (or fall away at decision points), new ones will move up the list if manpower and funds are available. The targets that will first receive attention are School Bus Canyon, Deep Dreamland, Mother Lode, Valley and White Alps.

A Newmont peer review was held on March 3 for the North Equinox (NEQ) target. The purpose of the review was to gain input and insight from geologists that can offer outside perspectives. The review focussed on the geochemical signature of NEQ as compared to the Rosebud and Crofoot-Lewis deposits. Mercury and antimony are enriched at NEQ relative to Rosebud. Discussion centered on whether the strong Hg-Sb-As-Au signature, and its comparison to other targets, improved or weakened NEQ as a drill target. There was also discussion about the difficulty of determining the vertical position in such volcanic-hosted hydrothermal systems (short of using fluid inclusions).

Most felt that NEQ is a strong drill target based on the rock and drill hole geochemistry, and previous drilling was too shallow to test it thoroughly. (The deepest hole at NEQ reaches the 4900 elevation.) Although the geochemical signature is slightly different from Rosebud, additional drilling may be warranted after trenching several key contacts (including the E-W silicified fault) to better determine their dips. Also, several strongly anomalous rock samples in the footwall of the major structure need to be confirmed. Lastly, the suggestion was made to run drill hole 387 (hundreds of feet of 1-7 ppm Hg) using the PIMA, and possibly analyze the pulps for trace elements using our standard ICP package. Pete Rogowski and Randy Vance will follow up NEQ by implementing these suggestions.

Geochemistry

The classification and naming of rocks at Rosebud is difficult due to the very fine-grained nature of many of the rocks and the paucity of phenocrysts. A review of nearly 100 whole-rock geochemical samples, plotted on Total Alkali vs. Silica, and QAP (IUGS) diagrams (from CIPW norms), shows that the majority of Rosebud rocks are rhyolite, with some quartz latite. A few plot as trachyte on the TAS diagram, although the Kamma Mountain volcanics are only weakly alkaline. Basaltic andesite, dacite, rhyodacite and high-K rhyolite are present but uncommon. There was a tendency in the past to assign field names that are more mafic, probably due to the medium to dark colors of unaltered rhyolite. These and other conclusions are documented in a memo.

Drilling

Underground drilling to test Near-Mine targets began at mid-month, and will be executed by Hecla mine staff. The 12,000-foot phase 1 program represents one of the more aggressive underground exploration programs at Rosebud since mining began. Several of the primary targets are feeder structures beneath the current mine workings, particularly in the low-grade metamorphic Auld Lang Syne basement, which is locally silicified and mineralized. The Far East target area, southeast of the East zone, contains several surface drill holes with narrow, high-grade (>0.5 oz/st gold) intercepts, in both the footwall and hanging walls of the South Ridge fault. With mine development of the East zone in the last few months, these targets can be tested with 500-700 foot holes from the Stope 41 muck bay. Sub-horizontal holes from underground stations will offer a better chance to intersect steeply dipping mineralized structures than the older, steep holes from the surface.

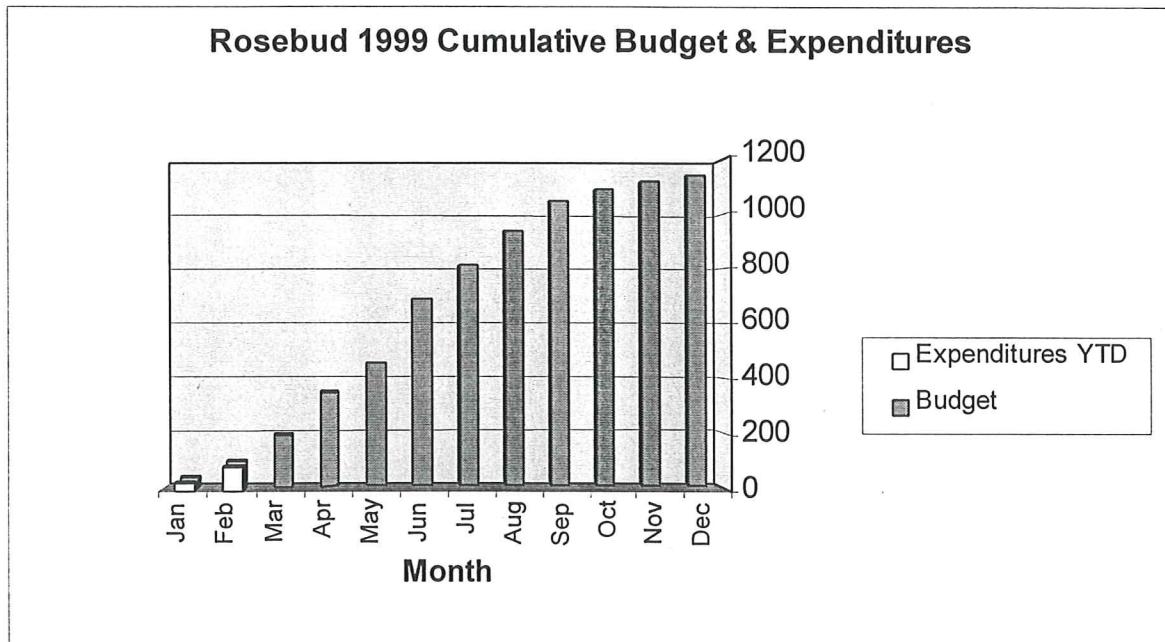
Core hole RS-D340-99 is the first of four holes to test the North/East zone “24” feeder structure target. Caving was severe at about 600 ft, and direct drill costs increased to \$26/ft, substantially higher than originally projected. The hole was terminated at 960 ft. Alteration is varied, but includes intervals of strong silicification, weak to moderate sulfide, and local decalcification of Auld Lang Syne phyllite. Assays are pending.

Permitting

As a requirement under our Plan of Operation, a map was prepared for the BLM showing the expected areas of disturbance during 1999. The map depicts disturbance in the form of roads and drill pads in the highest-ranking target areas.

Administrative

The February expenditure was \$56,153 (97% of budget), bringing the YTD to \$82,592 (87% of budget).



During February, two days of MapInfo training was provided to Newmont employees. The GIS-type software allows manipulation of various types of surface data using Excel, Access, AutoCad, etc., and complements Newmont's Stones software.

ROSEBUD JOINT VENTURE MEMORANDUM

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

SUMMARY

Rosebud lot 99002 was campaigned through Pinon mill from February 9th through February 19th for a total run time of 10.6 days at 95.6% total availability. Downtime included 2 minutes to adjust the SAG mill lube pump resulting in a mechanical availability of 99.7%. Operational downtime included 18 minutes for 1 SAG feed chute plug and 1 plugged apron feeder and 8 minutes for 2 feed belt pull cord trips resulting in an operational availability of 95.9%. This resulted in an average throughput rate of 88.27 dry short tons per hour or 2118.6 dry short tons per day for the run. Processed ore of 21,478.1 dry short tons averaged 0.480 Au oz/st and 2.117 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 0.533 Au oz/st and 2.090 Ag oz/st. Back calculated contained head values were 11,455.47 Au ounces and 44,975.7 Ag ounces, which yield a recovery of 96.8 % Au and 62.1 % Ag, based on final reconciliation. Poured metal was settled at 10,835.1 Au ounces and 25,551.51 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)	10300.1	(11.2%)	45460.6	1.1%
Mine Estimate (Contained Oz's)	15690.2	27.0%	82317.3	45.4%
Back Calc (Poured Metal)	11455.5		44975.7	

February Forecast

23,500 Dry Short Tons at 0.600 Au opt and 3.500 Ag opt. Gold and silver recovery for the lot will be 96% and 60% respectively, which will yield 13,536 gold ozs and 49,350 silver ozs.

Circuit Highlights

Grinding

The average grind for February milling was 87.7% passing -200 mesh based on laboratory determination of 12-hour shift composites. Shift composites for % solids ranged from 19.7 to 29.2% with an average of 26.08% for the run. Excluding two low densities that appear to be from sampler cleaning, the range would have been 26 to 29% with a 27.5% average. The grinding circuit performed well during the run. The key was to maintain 12 operating cyclones at all times. Some initial plugging occurred during the first few shifts and then leveled off to 0 to 2 plugs per shift. The inlet liner opening to the cyclones was discovered to have two different size openings, which also caused some plugging problems. This size opening is being standardized to 2.2 inches from 1.3 inches. The two mill grinding circuit has proven itself and the small ball mill will be moth balled and hold up metal values recovered.

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

CIL

Carbon loading peaked at approximately 331 opt (total) during the campaign. The silver to gold ratio on the loaded carbon was approximately 2:1. Focus on maintaining even carbon grams per liter and dissolved oxygen levels in each CIL tank improved performance and the entire carbon, solids and solution profile.

Stripping

A total of 25 batches of Rosebud carbon totaling 250 tons were stripped in a 20-day period. Stripping was not in operation during the first of the month due to low loadings or density. Loaded carbon averaged 62.27 Au opt and 123.79 Ag opt and stripped carbon averaged 16.58 Au opt and 17.38 Ag opt for a 73.4% Au and 86.0% Ag stripping recovery rate (Based on 22 strips). Approximately 72% of the Rosebud stripped carbon was acid washed and 52% was reactivated in the kiln (Based on 25 strips). The strip circuit solution heater operated at design during the run. Barren solution temperatures to the strip vessel averaged 285 – 292 degrees and no flashing occurred on the cool down side. By using barren pre-heat systems and staged flow increases during strip start up, heat up times have been reduced substantially. Some plugging of the Funda filters,

Johnson screens and heat exchangers occurred towards the end of the run. During this time stripped carbon values went from 4-7 opt Au to 30-70 opt Au resulting in the +16 opt Au average stated for the entire run. Parameters to minimize the plugging have been implemented.

Tailings

The tails sampling system operated without incident during the run. Post grinding tails losses indicate that an average grade of 0.019 Au opt and 0.237 Ag opt was discharged to tailings during the non-milling part of the month. Based on 600 tons estimated to have been sent to tails during the down period, approximately 13 Au ounces and 161 Ag ounces were probably lost to tails. The tons and contained ounces lost to tails were significantly reduced due to the successful start up and operation of the tails thickener at the end of the run.

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 was planned prior to the February run but will be completed after the tails thickener project is finished. The tails thickener project should be completed before the March run or during it.

A handwritten signature in black ink, appearing to read "Dale T. 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	9930.80	0.00	19908.51	19908.51
Total Met Oz	9977.71	9930.80	0.00	19908.51	19908.51
Poured Oz	8584.780	10835.100	0.000	19419.880	19419.880
Ending Inventory	3406.60	3657.68	0.00	3657.68	3657.68
Begin Inventory	1433.81	3406.60	3657.68	1433.81	1433.81
Inventory Change	1972.79	251.08	(3657.68)	2223.87	2223.87
 Total Rec.	 579.86	 1155.38	 (3657.68)	 1735.24	 1735.24
To Rosebud	579.86	1155.38	#DIV/0!	1735.24	1735.24
To Pinon	0.00	0.00	#DIV/0!	0.00	0.00
 Rosebud Tails	 633.7	 369.3		 1003.0	 1003.0
Mill Tons	24521.4	21478.1		45999.5	45999.5
Total Head Oz's	11191.22	11455.48	#DIV/0!	22646.70	22646.7
Adj. Recovery	94.34%	96.78%	#DIV/0!	95.57%	95.57%
Adj. Head OPT	0.456	0.533	#DIV/0!	0.492	0.492

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	28422.60		74567.31	74567.31
Total Met Oz	46144.71	28422.60		74567.31	74567.31
Poured Oz	36617.350	25551.510		62168.860	62168.860
Ending Inventory	3801.56	6187.75		6187.75	6187.75
Begin Inventory	4279.30	3801.56	6187.75	4279.30	4279.30
Inventory Change	(477.74)	2386.19	(6187.75)	1908.45	1908.45
 Total Rec.	 (10005.10)	 (484.90)	 (6187.75)	 (10490.00)	 (10490.00)
To Rosebud	(10005.10)	(484.90)	#DIV/0!	(10490.00)	(10490.00)
To Pinon	0.00	0.00	#DIV/0!	0.00	0.00
 Rosebud Tails	 34844.8	 17038.0		 51882.8	 51882.8
Mill Tons	24521.4	21478.1		45999.5	45999.5
Total Head Oz's	70984.41	44975.70	#DIV/0!	115960.11	115960.11
Adj. Recovery	50.91%	62.12%	#DIV/0!	55.26%	55.26%
Adj. Head OPT	2.895	2.094	#DIV/0!	2.521	2.521

Newmont Gold Company - Twin Creeks Mine

ROSEBUD MONTHLY SETTLEMENT SHEET

Lot 99002

February-99

To: Jim Sigurdson

Final

From : Stuart Myrhow

Date: 3/3/99

FACILITY	Last Month Ending Inventory	This Month Ending Inventory	Monthly Indicated Production	Theoretical Production	Ounces Poured	Accounting Discrepancy
Piñon Mill Gold	3,406.60	3,657.68	9,930.77	9,679.69	10,835.10	1,155.41
Piñon Mill Silver	3,801.56	6,187.75	28,422.57	26,036.38	25,551.51	(484.87)

GOLD SILVER

Poured Ounces to Rosebud (oz)	10,835.10	25,551.51
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Adjustment to Rosebud Settlement	0.00	0.00
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Final Rosebud Settlement	10,835.10	25,551.51
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Lot 99002 Metallurgical Balance

Dry Tons	Gold Grade oz/t	Troy Ounces	Silver Grade oz/t	Troy Ounces
Feed	21,478.1	0.480	10,300.1	2.117
Tails		0.0172	369.3	0.793
Recovered		96.4%	9,930.8	62.5%
Reconciled Feed Ounces			11,455.47	
Adjusted Feed Grade		0.533		2.09
Adjusted Recovery		96.8%		62.1%

Reviewed by:

Twin Creeks

Date:

Rosebud Joint Venture

Date: 3-3-99

Approval Twin Creeks

Date: 3/3/99

Approval Hecla Mining Co.

Date:

Metal Sales Application
Month To Date Fine Ounces Poured (MSS3050)
For Production Period 9902
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		
02/01/99 - 02/07/99	TC	49617	02/03/99	5425.040	224.661	1218.795	700.518	3800.338		
		Week Totals		5425.040		1218.795		3800.338		
02/08/99 - 02/14/99	TC			0.000	0.000	0.000	0.000	0.000		
		Week Totals		0.000		0.000		0.000		
02/15/99 - 02/21/99	TC	49817	02/16/99	6630.300	269.531	1787.071	650.341	4311.956		
	TC	49917	02/19/99	4943.020	283.870	1403.175	651.172	3218.756		
		Week Totals		11573.320		3190.246		7530.712		
02/22/99 - 03/03/99	TC	PLIE 49939	02/23/99	3950.260	307.345	1214.093	638.259	2521.289		
	TC	POST 49940	02/23/99	1537.500	251.032	385.962	671.689	1032.722		
	TC	PRE 49997	02/25/99	2005.360	342.063	685.959	612.756	1228.796		
	TC	POST 49998	02/25/99	2660.320	293.622	781.128	666.065	1771.946		
	TC	50032	02/27/99	8061.280	269.848	2175.320	669.577	5397.648		
	TC	POST 50060	03/01/99	657.920	254.401	167.376	592.768	389.994		
		Week Totals		18872.640		5409.838		12342.395		
Totals For This Area				-----	-----	-----	-----	23673.445		
Grand Total - All Areas				35871.000		9818.879		23673.445		
				-----	-----	-----	-----			

Run Date: 03-MAR-99

Page 1 of 2

Metal Sales Application
Month To Date Fine Ounces Poured (MSS3050)
For Production Period 9902
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
02/01/99 - 02/07/99	TC	49717	02/05/99	3824.200	865.856	3311.207	92.938	355.413
		Week Totals		3824.200		3311.207		355.413
02/08/99 - 02/14/99	TC	49737	02/08/99	8204.320	839.364	6886.411	112.359	921.829
	TC	49754	02/09/99	3258.960	710.540	2315.621	255.212	831.726
	TC	49768	02/11/99	4144.000	834.734	3459.138	120.039	497.442
	TC	49791	02/12/99	5690.040	831.582	4731.735	117.449	668.290
	TC	49792	02/12/99	1961.400	771.154	1512.541	179.075	351.238
	TC	49877	02/12/99	0.001	450.000	0.000	450.000	0.000
		Week Totals		23258.721		18905.447		3270.524
02/15/99 - 02/21/99	TC	49797	02/15/99	7643.160	858.582	6562.280	91.838	701.933
	TC	49894	02/17/99	3398.120	736.816	2503.789	216.975	737.307
	TC	49905	02/18/99	5844.460	875.213	5115.147	75.869	443.413
		Week Totals		16885.740		14181.216		1882.653
02/22/99 - 03/03/99	TC	49925	02/22/99	6624.920	878.363	5819.085	72.218	478.438
	TC	49960	02/24/99	6940.500	878.289	6095.765	81.133	563.104
	TC	49961	02/24/99	998.060	720.374	718.976	202.394	202.001
	TC	50017	02/26/99	7557.540	866.472	6548.397	89.953	679.823
	TC	50033	02/26/99	18.664	221.925	4.142	778.075	14.522
	TC	50037	02/26/99	11.854	380.125	4.506	619.875	7.348
	TC	50039	02/26/99	16.366	589.209	9.643	410.791	6.723
	TC	50057	03/01/99	11474.920	874.637	10036.390	82.790	950.009
	TC	50059	03/01/99	7149.240	871.839	6232.986	88.650	633.780
	TC	50086	03/02/99	5482.260	858.232	4705.051	95.238	522.119
	TC	50089	03/02/99	579.220	695.529	402.864	227.854	131.978
	TC	50090	03/02/99	670.060	746.566	500.244	201.496	135.014
	TC	50091	03/02/99	341.720	740.060	252.893	186.381	63.690
		Week Totals		47865.324		41330.942		4388.550
Totals For This Area				91833.985		77728.812		9897.141

Grand Total - All Areas

FURNACE DUST ALLOC

91833.985

77728.812

9897.141 ✓

STUART
MYRHOW
54713

RB	T/C
1016.218	7194.852
1870.065	170.111
	AG

FURNACE DUST

T-WIPER

8211.070

1957.745

2467.476

571129 1-1-5

TWIN CREEKS
SOUTH AREA PROCESS GOLD INVENTORY

Month: Feb-99

Samples Dated: CIL 2/19/99

Samples Dated: DL 2/28/99

PINON MILL	GOLD	SILVER
1. MILL CIL CIRCUIT:	5,353.29	11,607.86
2. STRIP/REGEN	1,685	3,001
3. STRIP SOLUTIONS:	129	171
TOTAL	7,167.47	14,780.06

PINON DUMP LEACH	GOLD
1. DUMP CIC CIRCUIT:	1,550
2. MILL CIC CIRCUIT:	512
TOTAL	2,061.84

1. MILL CIL CIRCUIT:

TANK No.	Freeboard Height (in)	Solid Density (% solids)	VOL. OF SAMPLE (ml)	CARBON WT. (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	23	31	3,000	49.77	99.223	196.302	16.6	19.8	1,966.81	3,891.13
1B	23	28	3,000	38.04	121.914	224.607	12.7	15.2	1,849.15	3,406.77
2A	22	30	3,000	35.02	47.701	137.124	11.7	6.3	301.98	868.09
2B	20	30	3,000	22.80	81.781	175.244	7.6	4.1	338.82	726.02
3A	33	29	3,000	29.57	33.978	89.583	9.9	5.2	175.46	462.60
3B	19	32	3,000	112.94	17.412	65.463	37.6	20.6	358.65	1,348.37
4A	32	31	3,000	81.54	17.325	46.666	27.2	14.3	247.45	666.53
4B	19	29	3,000	17.17	10.237	25.302	5.7	3.1	32.03	79.17
5	41	29	3,000	48.25	10.091	19.366	16.1	8.2	82.95	159.19
TOTAL				55.27	119.85		96.9	5,353.29	11,607.86	

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	81.0	608	39.243	80.950	10.3	405.8	837.1
Kiln Feed Tank	63.0	615	7.846	3.325	8.2	64.1	27.2
Quench Tank					0.0	0.0	0.0
Loaded Carbon	36.0	638	106.310	187.071	11.3	1,201.5	2,114.3
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 Carbon (fines)					0.0	0.0	0.0
Other: Tails Splitter	47.0	602	10.835	17.762	1.3	13.7	22.4
TOTAL					31.1	1,685.1	3,000.9

3. STRIP SOLUTIONS:

TANK LEVEL (%)	SOLUTION AU ASSAY (oz/l)	SOLUTION AG ASSAY (oz/t)	SOLUTION WEIGHT (tons)	GOLD IN SOLUTION (oz)	SILVER IN SOLUTION (oz)
PREG TANK	35.70	0.81	1.10	153.66	124.56
BARREN TANK	23.70	0.04	0.02	102.01	4.51
TOTAL			255.67	129.07	171.26

1. DUMP CIC CIRCUIT:

TANK No.	Depth to Carbon (in)	CARBON DENSITY (g/l)	CARBON AU ASSAY (oz/l)	DEPTH OF CARBON (ft)	CARBON WEIGHT (tons)	GOLD ON CARBON (oz)
1	40.0	733	101.556	6.0	8.7	887.7
2	59.0	689	57.224	4.4	6.0	345.9
3	81.0	672	41.241	2.6	3.4	142.2

4	74.0	601	45.951	3.2	3.8	173.8
5	111.6	686	4.112	0.0	0.0	0.2
TOTAL		250.08		22.1		1,549.7

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	23.0	611	45.980	9.1	5.8	264.4
2	41.0	584	18.652	7.6	4.6	85.5
3	58.0	589	30.012	6.2	3.8	113.0
4	116.0	685	17.864	1.3	0.9	16.9
TOTAL		622	16.260	3.1	2.0	32.3
			30.07		17.0	512.1

Note 1

The Piñon Mill Inventory was taken on 36210.

The additional stripped gold was poured out in melts , 49940, 49998, 50032,50060.

The melted material was subtracted from the carbon inventory for 36210.

The EOM totals are shown below:

Melt	Au	Ag
49940	385.962	1032.722
49998	781.128	1771.946
50032	2175.320	5397.648
50060	167.376	389.994
Total	3,509.79	8,592.31

Piñon Mill Carbon Inventory

	Carbon	Poured	Total EOM
Au	7,167.47	3,509.79	3,657.68
Ag	14,780.06	8,592.31	6,187.75

Transystems Haulage to Pinion Mill
Campaign # 99002

MONTH: Feb-99

Date	Rosebud Tons			Transystems Billed	Variance (over billed)
	Day Shift	Night Shift	Total		
1/18/99	597.12	598.80	1,195.92	1,195.92	0.00
1/19/99	553.51	511.74	1,065.25	1,065.25	0.00
1/20/99	430.84	471.39	902.23	902.23	0.00
1/21/99	424.84	425.18	850.02	850.02	0.00
1/22/99	625.26	511.79	1,137.05	1,137.05	0.00
1/23/99	195.77	0.00	195.77	195.77	0.00
1/24/99	466.41	350.32	816.73	816.73	0.00
1/25/99	461.93	542.75	1,004.68	1,004.68	0.00
1/26/99	0.00	306.91	306.91	306.91	0.00
1/27/99	537.39	468.76	1,006.15	1,006.15	(0.00)
1/28/99	468.21	585.45	1,053.66	1,053.66	0.00
1/29/99	314.66	427.83	742.49	742.49	0.00
1/30/99	0.00	0.00	0.00		0.00
1/31/99	0.00	0.00	0.00		0.00
2/1/99	630.77	477.10	1,107.87		0.00
2/2/99	599.44	354.02	953.46		0.00
2/3/99	315.43	637.30	952.73		0.00
2/4/99	520.47	475.74	996.21		0.00
2/5/99	475.00	556.47	1,031.47		0.00
2/6/99	319.68	559.73	879.41		0.00
2/7/99	402.42	482.76	885.18		0.00
2/8/99	317.58	322.67	640.25		0.00
2/9/99	434.67	0.00	434.67		0.00
2/10/99	0.00	515.21	515.21		0.00
2/11/99	435.80	518.92	954.72		0.00
2/12/99	478.71	439.48	918.19		0.00
2/13/99	442.44	362.63	805.07		0.00
2/14/99	323.07	443.17	766.24		0.00
2/15/99	606.19	326.08	932.27		0.00
2/16/99	465.10		465.10		0.00
2/17/99			0.00		0.00
TOTAL	11,842.71	11,672.20	23,514.91	10,276.86	(0.00)
Variance %					

tons per day 922.15

dry tons forecast	21107.00
wet tons forecast	22901.10
tons left on pile (wet)	(8.5%)
tons left on pile (dry)	-613.81
days left (estimate)	-565.73
	-0.67

Rosebud

2/23/99

Feb99

10:42 AM

Summary

Lot 99002	Dry Short Tons	Gold		Silver	
		tr. oz / ore ton	troy ounces	tr. oz / ore ton	troy ounces
Feed	21478.1	0.480	10,300.1	2.117	45,460.6
Tails		0.0172	369.3	0.793	17,038.0
Recovered		96.4%	9,930.8	62.5%	28,422.6

Rosebud Metallurgical Accounting

Cyclone Overflow Auto Sampler

Transystem Tons = 23514.91

Wet Campaign Tons = 23,607.0

-92.1

(0.0) Days To Mill

-371 13.765 99.320 (5108.0) (36856.7)

21107 0.730 3.900 15408.1 82317.3

101.8% 21478 0.480 2.117 10300.1 45460.6

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				Calculated Head # 2					
Tons	opt Au	opt Ag	Slurry Wet Grams	Dry wt. grams	% Solids	opt Au	Duplicate opt Au	Average opt Au	opt Ag	Duplicate opt Ag	Average opt Ag	opt Au	opt Ag	Duplicate opt Ag	Average opt Ag	opt Au	opt Ag	Belt Scale oz Au	Belt Scale oz Ag						
2/1/99	18:00	6:00	7437811	7437811	0.0	0.00%	-	3,753.0	0.0020	0.0110	0.0	0.0	0.00%	0.0000	100.000	0.0000	0.0000	0.0000	100.000	0.0000	0.0000	0.0000	0.0	0.0	
2/1/99	6:00	18:00	7437811	7437811	0.0	0.00%	-	2,919.0	0.0010	0.0090	0.0	0.0	0.00%	0.0000	100.000	0.0000	0.0000	0.0000	100.000	0.0000	0.0000	0.0000	0.0	0.0	
2/2/99	18:00	6:00	7437811	7437811	0.0	0.00%	-	3,336.0	0.0005	0.0070	0.0	0.0	0.00%	0.0000	100.000	0.0000	0.0000	0.0000	100.000	0.0000	0.0000	0.0000	0.0	0.0	
2/2/99	6:00	18:00	7437811	7437811	0.0	0.00%	-	2,919.0	0.0000	0.0050	0.0	0.0	0.00%	0.0000	100.000	0.0000	0.0000	0.0000	100.000	0.0000	0.0000	0.0000	0.0	0.0	
2/3/99	18:00	6:00	7437811	7437811	0.0	0.00%	-	3,336.0	0.0000	0.0070	0.0	0.0	0.00%	0.0000	100.000	0.0000	0.0000	0.0000	100.000	0.0000	0.0000	0.0000	0.0	0.0	
2/4/99	18:00	6:00	7437811	7437811	0.0	0.00%	-	3,753.0	0.0000	0.0060	0.0	0.0	0.00%	0.0000	100.000	0.0000	0.0000	0.0000	100.000	0.0000	0.0000	0.0000	0.0	0.0	
2/4/99	6:00	18:00	7437811	7437811	0.0	0.00%	-	2,919.0	0.0000	0.0050	0.0	0.0	0.00%	0.0000	100.000	0.0000	0.0000	0.0000	100.000	0.0000	0.0000	0.0000	0.0	0.0	
2/5/99	18:00	6:00	7437811	7437811	0.0	0.00%	-	3,753.0	0.0000	0.0040	0.0	0.0	0.00%	0.0000	100.000	0.0000	0.0000	0.0000	100.000	0.0000	0.0000	0.0000	0.0	0.0	
2/5/99	6:00	18:00	7437811	7437811	0.0	0.00%	-	3,336.0	0.0010	0.0020	0.0	0.0	0.00%	0.0000	100.000	0.0000	0.0000	0.0000	100.000	0.0000	0.0000	0.0000	0.0	0.0	
2/6/99	18:00	6:00	7437811	7437811	0.0	0.00%	-	3,336.0	0.0010	0.0070	0.0	0.0	0.00%	0.0000	100.000	0.0000	0.0000	0.0000	100.000	0.0000	0.0000	0.0000	0.0	0.0	
2/6/99	6:00	18:00	7437811	7437811	0.0	0.00%	-	3,336.0	0.0000	0.0040	0.0	0.0	0.00%	0.0000	100.000	0.0000	0.0000	0.0000	100.000	0.0000	0.0000	0.0000	0.0	0.0	
2/7/99	18:00	6:00	7437811	7437811	0.0	0.00%	-	3,336.0	0.0000	0.0050	0.0	0.0	0.00%	0.0000	100.000	0.0000	0.0000	0.0000	100.000	0.0000	0.0000	0.0000	0.0	0.0	
2/8/99	18:00	6:00	7437811	7437811	0.0	0.00%	-	3,336.0	0.0010	0.0100	0.0	0.0	0.00%	0.0000	100.000	0.0000	0.0000	0.0000	100.000	0.0000	0.0000	0.0000	0.0	0.0	
2/8/99	6:00	18:00	7437811	7437811	0.0	0.00%	-	2,919.0	0.0000	0.0000	0.0	0.0	0.00%	0.0000	100.000	0.0000	0.0000	0.0000	100.000	0.0000	0.0000	0.0000	0.0	0.0	
2/9/99	18:00	6:00	7437811	7437811	0.0	0.00%	-	3,336.0	0.0030	0.0040	0.0	0.0	0.00%	0.0000	100.000	0.0000	0.0000	0.0000	100.000	0.0000	0.0000	0.0000	0.0	0.0	
2/9/99	6:00	18:00	7437811	7437811	954.0	12.26%	837.0	2,919.0	0.0020	0.0000	1894.0	505.2	26.67%	0.0100	100.000	0.0420	100.000	0.1132	691.0	0.0913	0.3142	2.3024	263.0	1927.2	
2/10/99	18:00	6:00	7437865	7439900	1135.0	10.15%	1,019.8	2,919.0	0.0010	0.0040	1573.0	457.2	29.07%	0.0140	100.000	0.3630	100.000	0.1358	665.1	0.6214	0.6651	0.3426	1.9747	349.3	2013.8
2/10/99	6:00	18:00	7439900	7440960	1060.0	10.06%	953.3	2,085.0	0.0003	0.0053	2610.5	715.6	27.41%	0.0150	100.000	0.3040	100.000	0.1629	6270.0	0.6270	0.4458	1.9546	425.0	1863.4	
2/11/99	18:00	6:00	7440960	7442149	1189.0	7.99%	1,094.0	2,919.0	0.0008	0.0055	1833.4	533.9	29.12%	0.0120	0.0130	0.3970	100.000	0.1821	6757.0	0.1000	0.6757	0.2070	495.7	2217.5	
2/11/99	6:00	18:00	7442149	7443182	1033.0	7.79%	952.6	2,085.0	0.0000	0.0000	2125.7	563.3	26.50%	0.0170	0.0170	0.3970	100.000	0.1895	6765.0	0.0543	0.2745	517.9	2166.6		
2/12/99	18:00	6:00	7443182	7444290	1108.0	8.46%	1,014.3	3,336.0	0.0009	0.0102	1824.0	517.3	28.35%	0.0120	0.0100	0.5190	100.000	0.1589	6569.0	0.0659	0.4106	2.1455	416.5	2176.1	
2/12/99	6:00	18:00	7444290	7445384	1094.0	9.45%	990.6	2,085.0	0.0000	0.0000	1944.0	527.5	27.13%	0.0270	0.0100	0.5070	100.000	0.1630	6224.0	0.4665	2.1790	462.1	2158.6		
2/13/99	18:00	6:00	7445384	7446550	1166.0	10.21%	1,046.9	2,502.0	0.0002	0.0065	1814.0	529.5	29.19%	0.0130	0.0120	0.3500	100.000	0.1680	5948.0	0.5948	0.4215	1.7774	441.3	1860.8	
2/13/99	6:00	18:00	7446550	7447727	1177.0	7.45%	1,089.3	2,919.0	0.0000	0.0000	1806.2	503.9	27.90%	0.0160	0.0160	0.4300	100.000	0.1925	6520.0	0.5135	2.1151	559.3	2303.9		
2/14/99	18:00	6:00	7447727	7448899	1172.0	10.41%	1,050.0	3,336.0	0.0008	0.0070	1962.8	561.3	28.60%	0.0170	100.000	0.5320	100.000	0.1872	7485.0	0.7224	0.4819	2.3787	506.0	2497.7	
2/14/99	6:00	18:00	7448899	7449979	1080.0	8.87%	984.2	2,085.0	0.0000	0.0001	1940.7	529.5	27.28%	0.0150	0.0150	0.3820	100.000	0.1740	6170.0	0.6170	0.4787	2.0262	471.2	1994.1	
2/15/99	18:00	6:00	7449979	7451137	1033.0	7.51%	1,036.3	3,336.0	0.0009	0.0068	1815.3	489.8	26.98%	0.0050	0.0180	0.4294	100.000	0.2049	7187.0	0.7187	0.5566	2.3521	576.8	2437.4	
2/15/99	6:00	18:00	7451137	7452324	1187.0	6.49%	1,099.9	2,085.0	0.0010	0.0071	2335.8	378.9	24.78%	0.0120	0.0100	0.4030	100.000	0.1576	5925.0	0.5925	0.4884	2.1878	542.1	2428.3	
2/16/99	18:00	6:00	7452324	7453463	1139.0	8.86%	1,038.1	2,085.0	0.0005	0.0091	2310.1	461.1	21.64%	0.0210	0.0100	0.5570	100.000	0.1559	5983.0	0.5983	0.5846	2.7055	606.8	2808.4	
2/16/99	6:00	18:00	7453463	7454580	1117.0	10.01%	1,005.1	2,502.0	0.0012	0.0001	2307.4	453.8	19.67%	0.0290	0.0120	0.4220	100.000	0.1677	4620.0	0.4620	0.7110	2.3088	714.7	2320.7	
2/17/99	18:00	6:00	7454580	7455690	1116.0	8.05%	1,026.2	3,336.0	0.0007	0.0098	1672.8	443.0	26.48%	0.0160	0.0160	0.3700	100.000	0.1674	5204.0	0.5204	0.4784	1.7828	491.0	1829.5	
2/17/99	6:00	18:00	7455690	7456841	1145.0	10.13%	1,029.0	1,668.0	0.0003	0.0000	2014.9	486.0	24.12%	0.0170	100.000	0.3780	100.000	0.1508	5000.0	0.5000	0.4909	1.9538	505.1	2010.4	
2/18/99	18:00	6:00	7456841	7457932	1091.0	7.92%	1,004.6	3,753.0	0.0006	0.0079	1631.7	429.1	26.30%	0.0180	0.0180	0.3670	100.000	0.1573	6544.0	0.6544	0.4566	2.1713	458.7	2181.3	
2/18/99	6:00	18:00	7457932	7459002	1070.0	6.56%	999.8	2,085.0	0.0005	0.0094	2437.4	529.1	21.71%	0.0180	0.0180	0.3690	100.000	0.1587	4935.0	0.4935	0.5893	2.1293	589.2	2129.0	
2/19/99	18:00	6:00	7459002	7460031	1029.0	8.33%	943.3	3,336.0	0.0003	0.0055	2030.0	333.9	26.30%	0.0200	0.0200	0.5270	100.000	0.1519	5814.0	0.5814	0.4446	2.1368	419.4	2015.7	
2/19/99	6:00	18:00	7460031	7461418	1037.0	9.61%	1,253.7	2,085.0	0.0004	0.0058	1501.3	396.5	26.41%	0.0100	0.0100	0.4100	100.000	0.1							

Campaign Tails

Rosebud Metallurgical Accounting

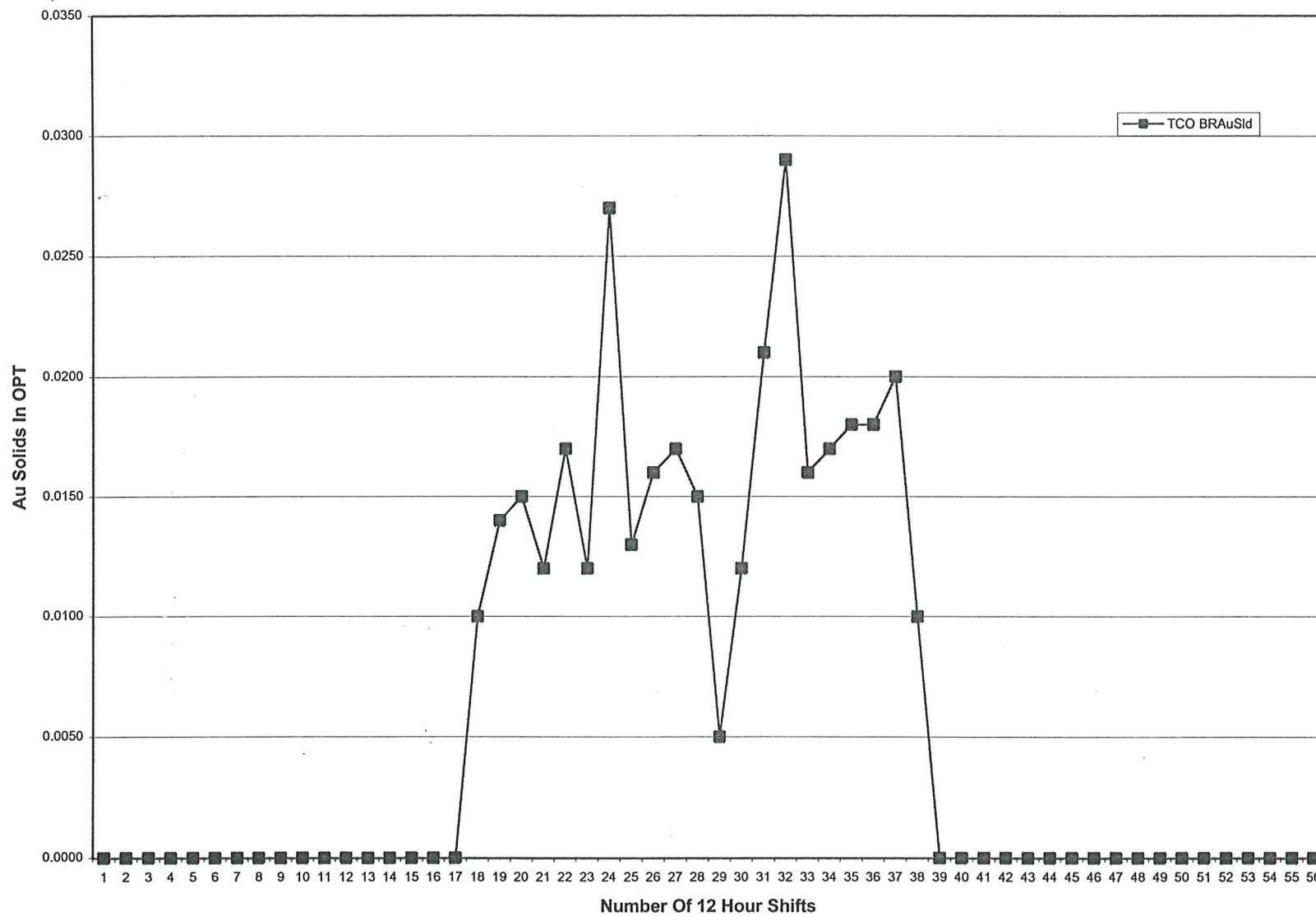
Tails Auto Sampler

Dry Campaign Tons = 21,478.1

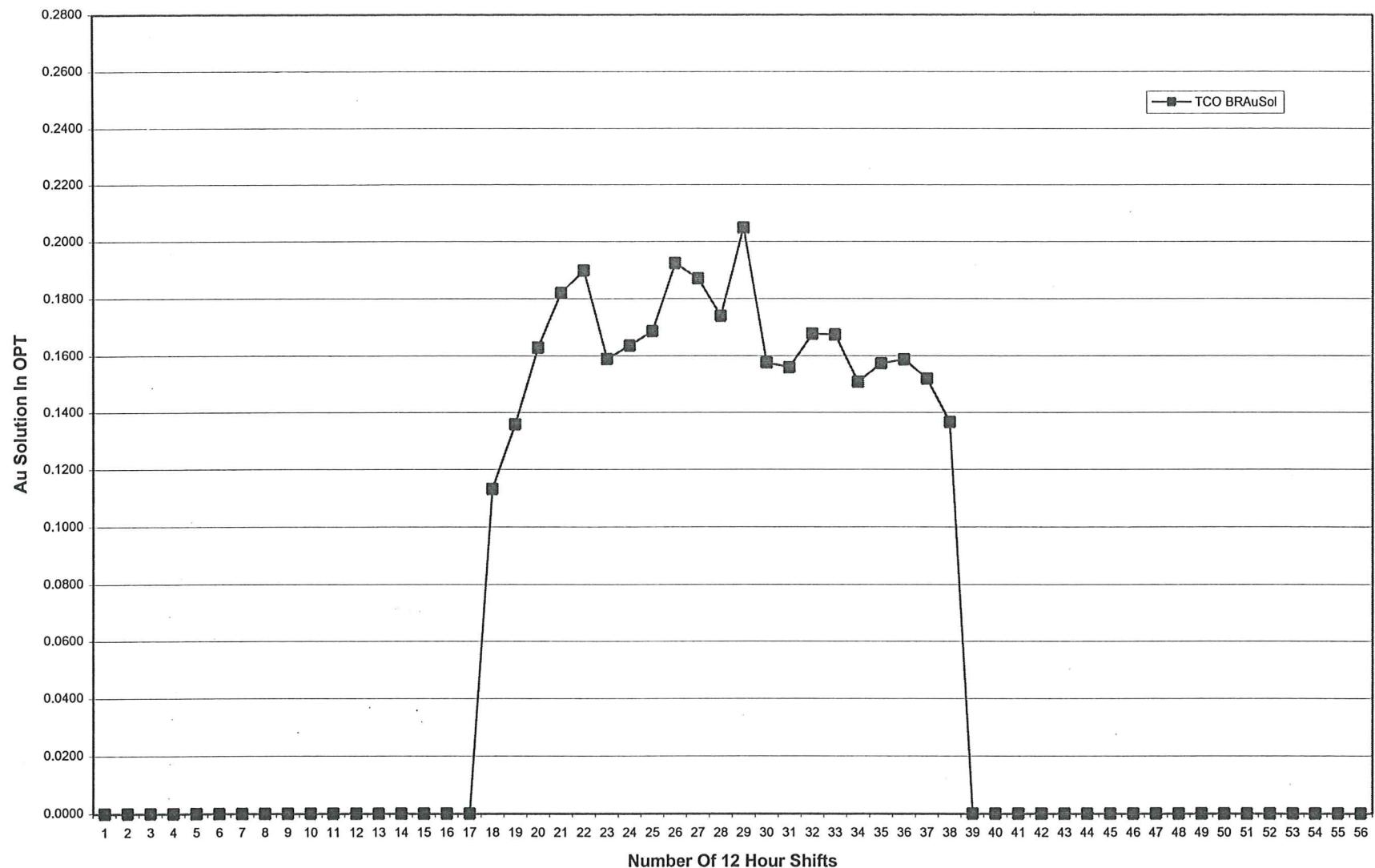
21107
101.8%
21478 0.017 0.793 369.3 17038.0

Date	Sampling Period Start	Sampling Period End	Mill Feed DST	Split #1 (Lab Split)												Calculated Head #2						
				Solids						Solution												
				Slurry We Grams	Dry wt. grams	% Solids	opt Au	Duplicate opt Au	Average opt Au	opt Ag	Duplicate opt Ag	Average opt Ag	opt Au	Duplicate opt Au	Average opt Au	opt Ag	Duplicate opt Ag	opt Au	opt Ag	oz Au	oz Ag	
2/1/99	18:00	6:00	0.0	4493.5	237.3	5.28%	0.0470	100.000	0.0470	0.6020	100.000	0.6028	0.0010	100.000	0.0010	0.0446	100.000	0.0040	0.0649	0.674	0.0	0.0
2/1/99	6:00	18:00	0.0	5208.6	91.5	1.76%	0.2080	100.000	0.2080	0.4500	100.000	0.4500	0.0010	100.000	0.0010	0.0226	100.000	0.0020	0.2639	0.562	0.0	0.0
2/2/99	18:00	6:00	0.0	2742.4	20.7	0.75%	0.5990	100.000	0.5990	0.0000	100.000	0.0000	0.0010	100.000	0.0010	0.0080	100.000	0.0008	0.7305	1.052	0.0	0.0
2/2/99	6:00	18:00	0.0	5624.9	86.9	1.54%	0.0750	100.000	0.0750	0.3470	100.000	0.3470	0.0000	100.000	0.0000	0.0020	100.000	0.0020	0.0750	0.474	0.0	0.0
2/3/99	18:00	6:00	0.0	3131.1	67.4	2.15%	0.0860	100.000	0.0860	0.3780	100.000	0.3780	0.0000	100.000	0.0004	0.0004	100.000	0.0040	0.0860	0.560	0.0	0.0
2/3/99	6:00	18:00	0.0	3739.8	28.0	0.75%	0.0000	100.000	0.0000	0.0000	100.000	0.0000	0.0010	100.000	0.0010	0.0030	100.000	0.0030	0.1326	0.398	0.0	0.0
2/4/99	18:00	6:00	0.0	5068.7	40.2	0.79%	0.0000	100.000	0.0000	0.0000	100.000	0.0000	0.0010	100.000	0.0010	0.0032	100.000	0.0030	0.1251	0.375	0.0	0.0
2/4/99	6:00	18:00	0.0	5765.3	105.0	1.82%	0.0180	100.000	0.0180	0.5380	100.000	0.5380	0.0020	100.000	0.0020	0.0040	100.000	0.0040	0.1258	0.774	0.0	0.0
2/5/99	18:00	6:00	0.0	4801.4	95.8	2.00%	0.0960	100.000	0.0960	0.2620	100.000	0.2620	0.0000	100.000	0.0000	0.0023	100.000	0.0020	0.0960	0.360	0.0	0.0
2/5/99	6:00	18:00	0.0	4843.0	97.0	2.02%	0.0820	100.000	0.0820	0.9540	100.000	0.9540	0.0000	100.000	0.0000	0.0030	100.000	0.0030	0.0820	1.100	0.0	0.0
2/6/99	18:00	6:00	0.0	3797.6	17.0	0.45%	0.0000	100.000	0.0000	0.0000	100.000	0.0000	0.0010	100.000	0.0010	0.0020	100.000	0.0020	0.2224	0.445	0.0	0.0
2/6/99	6:00	18:00	0.0	5058.1	48.8	0.96%	0.0800	100.000	0.0800	0.0000	100.000	0.0000	0.0000	100.000	0.0000	0.0000	100.000	0.0030	0.0800	0.308	0.0	0.0
2/7/99	18:00	6:00	0.0	3072.6	23.3	0.76%	0.0000	100.000	0.0000	0.0000	100.000	0.0000	0.0000	100.000	0.0000	0.0020	100.000	0.0020	0.0000	0.262	0.0	0.0
2/7/99	6:00	18:00	0.0	5289.1	85.3	1.61%	0.0910	100.000	0.0910	0.2380	100.000	0.2380	0.0000	100.000	0.0000	0.0030	100.000	0.0030	0.0910	0.421	0.0	0.0
2/8/99	18:00	6:00	0.0	5651.0	79.2	1.40%	0.1470	100.000	0.1470	0.2730	100.000	0.2730	0.0010	100.000	0.0010	0.0080	100.000	0.0080	0.1714	0.836	0.0	0.0
2/8/99	6:00	18:00	0.0	5934.7	79.5	1.35%	0.1250	100.000	0.1250	0.2750	100.000	0.2750	0.0000	100.000	0.0000	0.0030	100.000	0.0030	0.1250	0.495	0.0	0.0
2/9/99	18:00	6:00	0.0	4553.3	53.4	1.17%	0.1180	100.000	0.1180	0.2640	100.000	0.2640	0.0010	100.000	0.0010	0.0050	100.000	0.0050	0.2023	0.685	0.0	0.0
2/9/99	6:00	18:00	837.0	2308.0	124.0	5.37%	0.0490	100.000	0.0490	0.6260	100.000	0.6260	0.0010	100.000	0.0010	0.0020	100.000	0.0015	0.0666	0.661	55.8	553.3
2/10/99	18:00	6:00	1019.8	186.1	213.8	11.49%	0.0320	100.000	0.0320	0.8500	100.000	0.8500	0.0010	100.000	0.0010	0.0000	100.000	0.0050	0.0397	0.889	40.5	906.1
2/10/99	6:00	18:00	953.3	2240.4	440.9	19.68%	0.0180	100.000	0.0180	0.8890	100.000	0.8890	0.0000	100.000	0.0000	0.0089	100.000	0.0089	0.0204	0.925	19.5	882.3
2/11/99	18:00	6:00	1094.0	2049.0	472.0	23.04%	0.0120	100.000	0.0120	0.9990	100.000	0.9990	0.0009	100.000	0.0009	0.0133	100.000	0.0133	0.0150	1.043	16.4	1141.3
2/11/99	6:00	18:00	952.6	2240.9	517.5	23.09%	0.0130	100.000	0.0130	0.5240	100.000	0.5240	0.0009	100.000	0.0009	0.0150	100.000	0.0150	0.0160	0.576	15.2	548.0
2/12/99	18:00	6:00	1014.3	2005.1	470.4	23.47%	0.0140	100.000	0.0140	0.9790	100.000	0.9790	0.0020	100.000	0.0020	0.0231	100.000	0.0231	0.0205	0.872	20.8	884.8
2/12/99	6:00	18:00	990.6	2108.4	487.5	23.12%	0.0080	100.000	0.0080	0.7460	100.000	0.7460	0.0014	100.000	0.0014	0.0219	100.000	0.0219	0.0127	0.819	12.5	811.1
2/13/99	18:00	6:00	1046.9	2039.6	457.0	22.44%	0.0080	100.000	0.0080	0.8630	100.000	0.8630	0.0010	100.000	0.0010	0.0232	100.000	0.0232	0.0115	0.948	12.0	992.7
2/13/99	6:00	18:00	1089.3	2244.3	510.4	22.76%	0.0080	100.000	0.0080	0.7960	100.000	0.7960	0.0007	100.000	0.0007	0.0187	100.000	0.0187	0.0859	11.3	936.2	553.3
2/14/99	18:00	6:00	1050.0	1997.1	456.2	22.84%	0.0100	100.000	0.0100	0.6980	100.000	0.6980	0.0007	100.000	0.0007	0.0212	100.000	0.0212	0.0124	0.770	13.0	808.1
2/14/99	6:00	18:00	984.2	2202.4	497.9	22.61%	0.0100	100.000	0.0100	0.6300	100.000	0.6300	0.0005	100.000	0.0005	0.0163	100.000	0.0163	0.0131	0.688	12.9	677.0
2/15/99	18:00	6:00	10163.3	1667.2	313.3	18.79%	0.0100	100.000	0.0100	0.6280	100.000	0.6280	0.0010	100.000	0.0010	0.0158	100.000	0.0158	0.0143	0.696	14.8	721.5
2/15/99	6:00	18:00	1109.9	2343.7	519.5	20.42%	0.0100	100.000	0.0100	0.5500	100.000	0.5500	0.0007	100.000	0.0007	0.0158	100.000	0.0158	0.0165	0.612	14.1	678.8
2/16/99	18:00	6:00	1038.1	1769.8	406.7	22.98%	0.0110	100.000	0.0110	0.7910	100.000	0.7910	0.0008	100.000	0.0008	0.0234	100.000	0.0234	0.0137	0.869	14.2	902.5
2/16/99	6:00	18:00	1005.1	2126.0	360.2	16.94%	0.0080	100.000	0.0080	0.7360	100.000	0.7360	0.0012	100.000	0.0012	0.0201	100.000	0.0201	0.0139	0.835	14.0	838.8
2/17/99	18:00	6:00	1026.2	1751.3	386.0	22.04%	0.0100	100.000	0.0100	0.8760	100.000	0.8760	0.0008	100.000	0.0008	0.0200	100.000	0.0200	0.0148	0.949	15.2	973.7
2/17/99	6:00	18:00	1029.0	2185.2	390.1	17.85%	0.0090	100.000	0.0090	0.7220	100.000	0.7220	0.0011	100.000	0.0011	0.0143	100.000	0.0143	0.0141	0.788	14.5	810.0
2/18/99	18:00	6:00	1004.6	1865.9	406.4	21.78%	0.0140	100.000	0.0140	0.6780	100.000	0.6780	0.0005	100.000	0.0005	0.0178	100.000	0.0178	0.0158	0.742	15.9	745.3
2/18/99	6:00	18:00	999.8	2499.6	352.1	14.03%	0.0150	100.000	0.0150	0.6750	100.000	0.6750	0.0003	100.000	0.0003	0.0135	100.000	0.0135	0.0126	0.757	16.8	757.3
2/19/99	18:00	6:00	943.3	1963.0	427.1	21.75%	0.0090	100.000	0.0090	0.4670	100.000	0.4670	0.0010	100.000	0.0010	0.0181	100.000	0.0181	0.0126	0.532	11.9	501.9
2/19/99	6:00	18:00	1233.7	1976.0	442.9	22.41%	0.0050	100.000	0.0050	0.7000	100.000	0.7000	0.0004	100.000	0.0004	0.0203	100.000	0.0203	0.0064	0.770	8.0	965.7
2/20/99	18:00	6:00	0.0	339.4	559.0	16.74%	0.0080	100.000	0.0080	0.6390	100.000	0.6390	0.0000	100.000	0.0000	0.0152	100.000	0.0152	0.0080	0.715	0.0	0.0
2/20/99	6:00	18:00	0.0	4127.1	411.0	9.97%	0.0100	100.000	0.0100	0.5870	100.000	0.5870	0.0011	100.000	0.0011	0.0150	100.000	0.0150	0.0199	0.722	0.0	0.0
2/21/99	18:00	6:00	0.0	4590.0	395.8	8.62%																

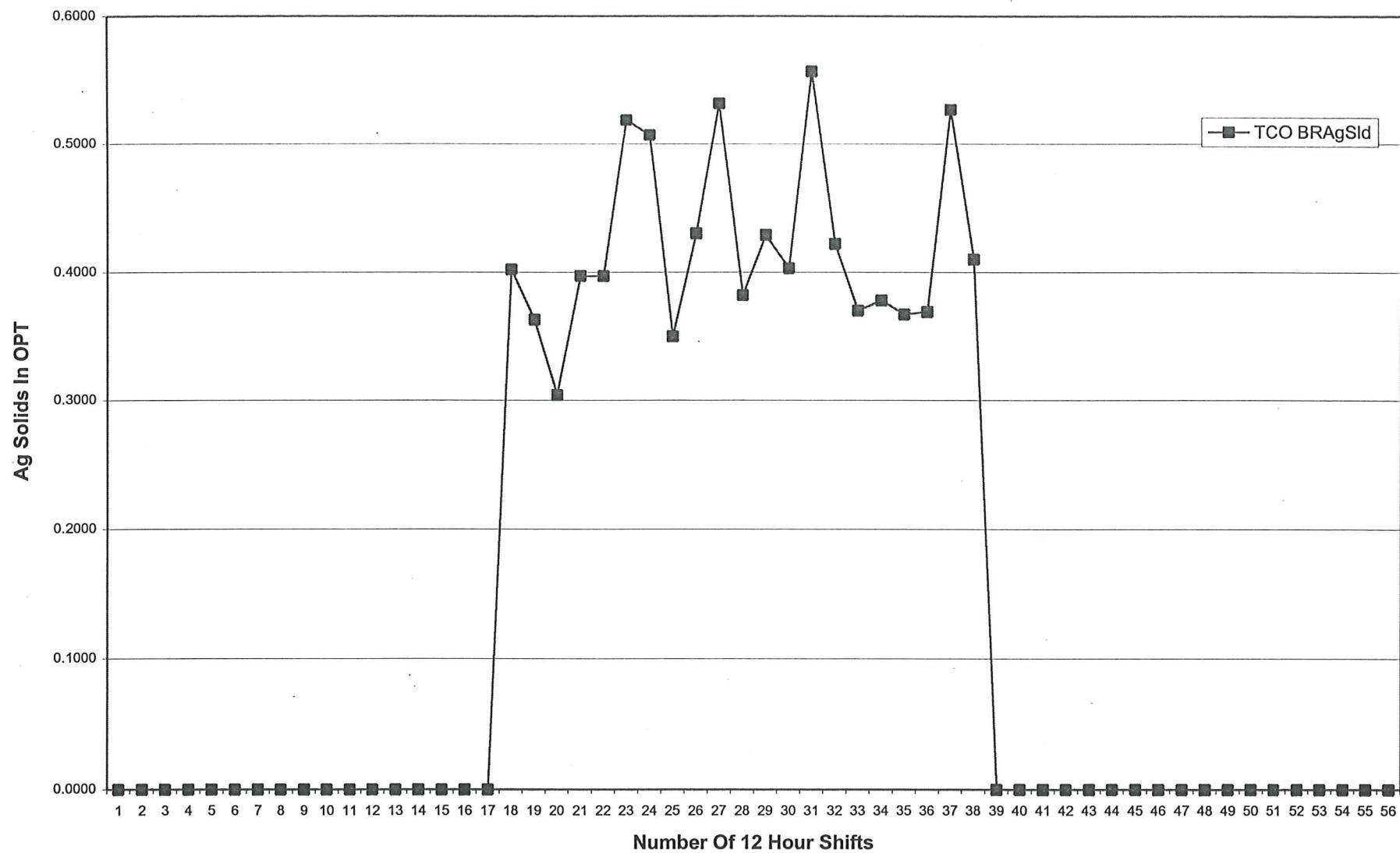
Au TCO Solids Trend - February 99 Bottle Roll



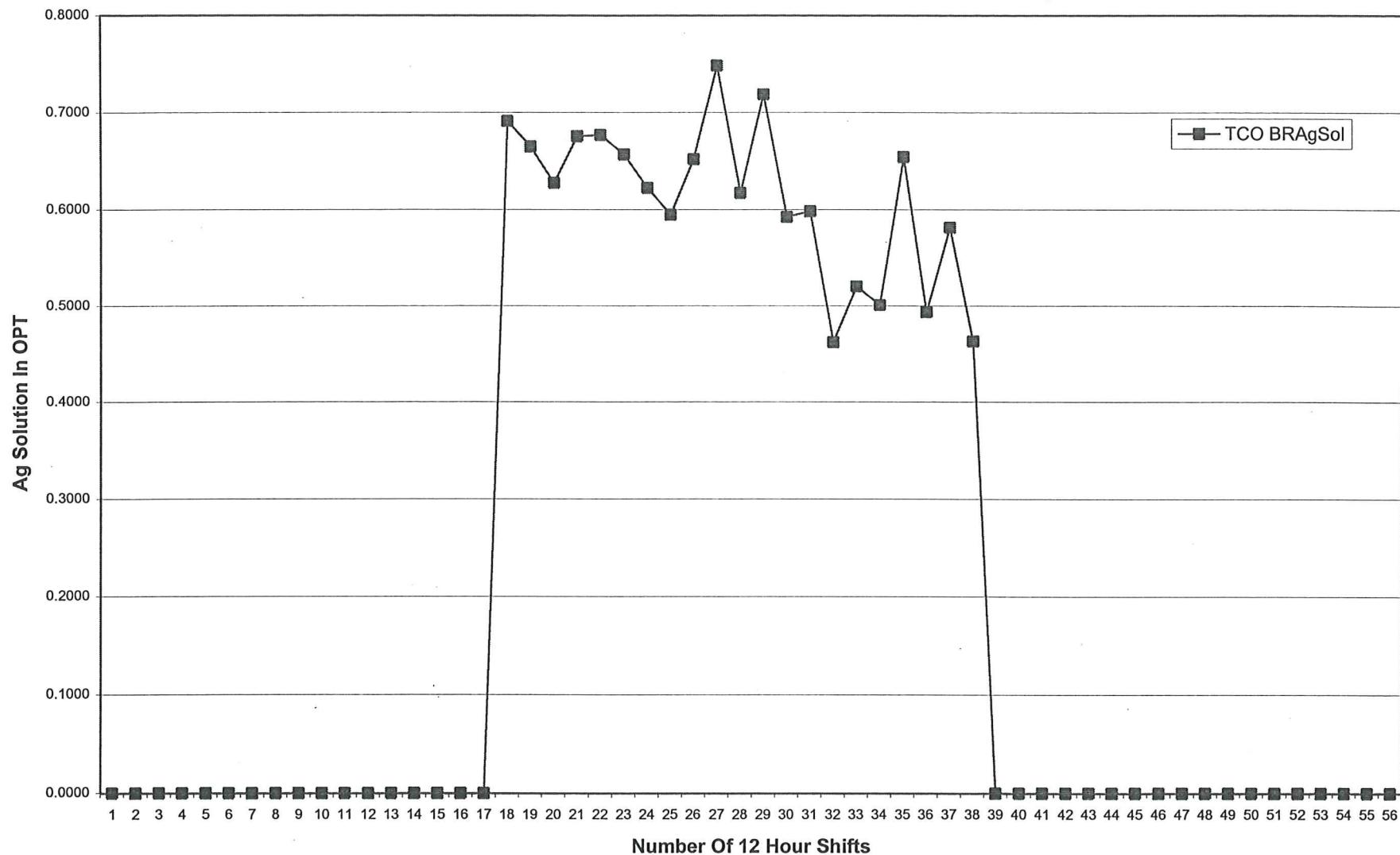
Au TCO Solution Trend - February 99 Bottle Roll



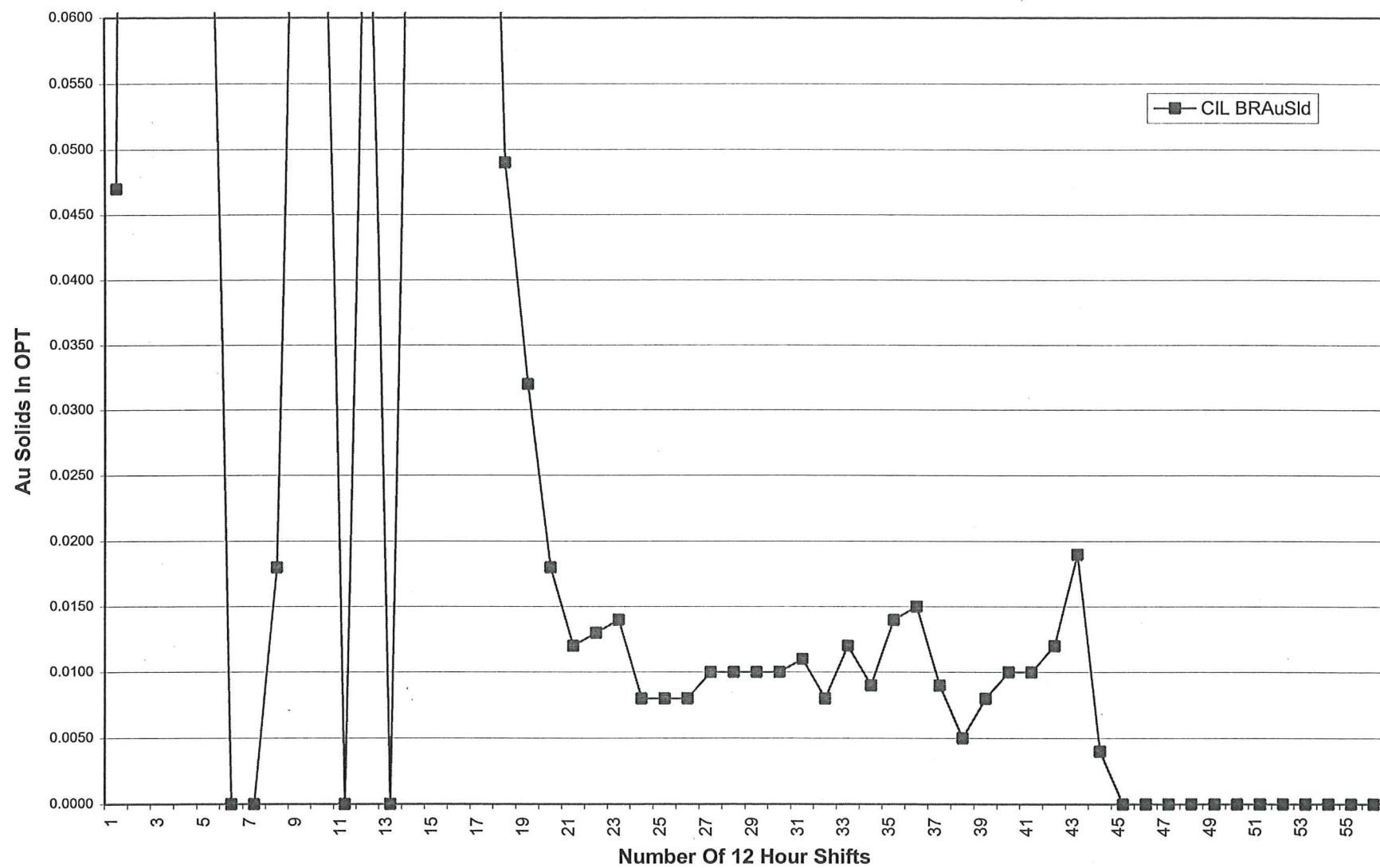
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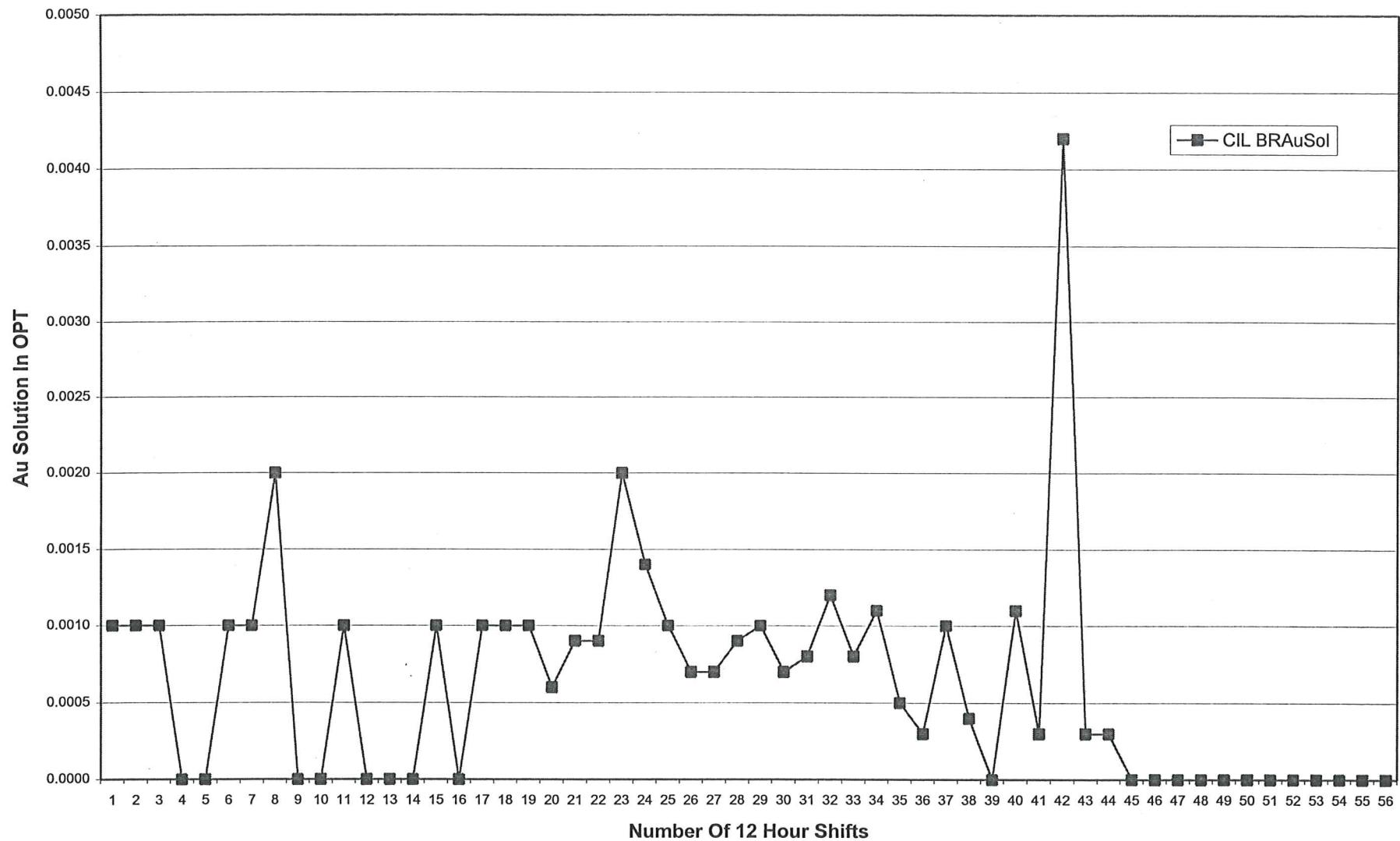
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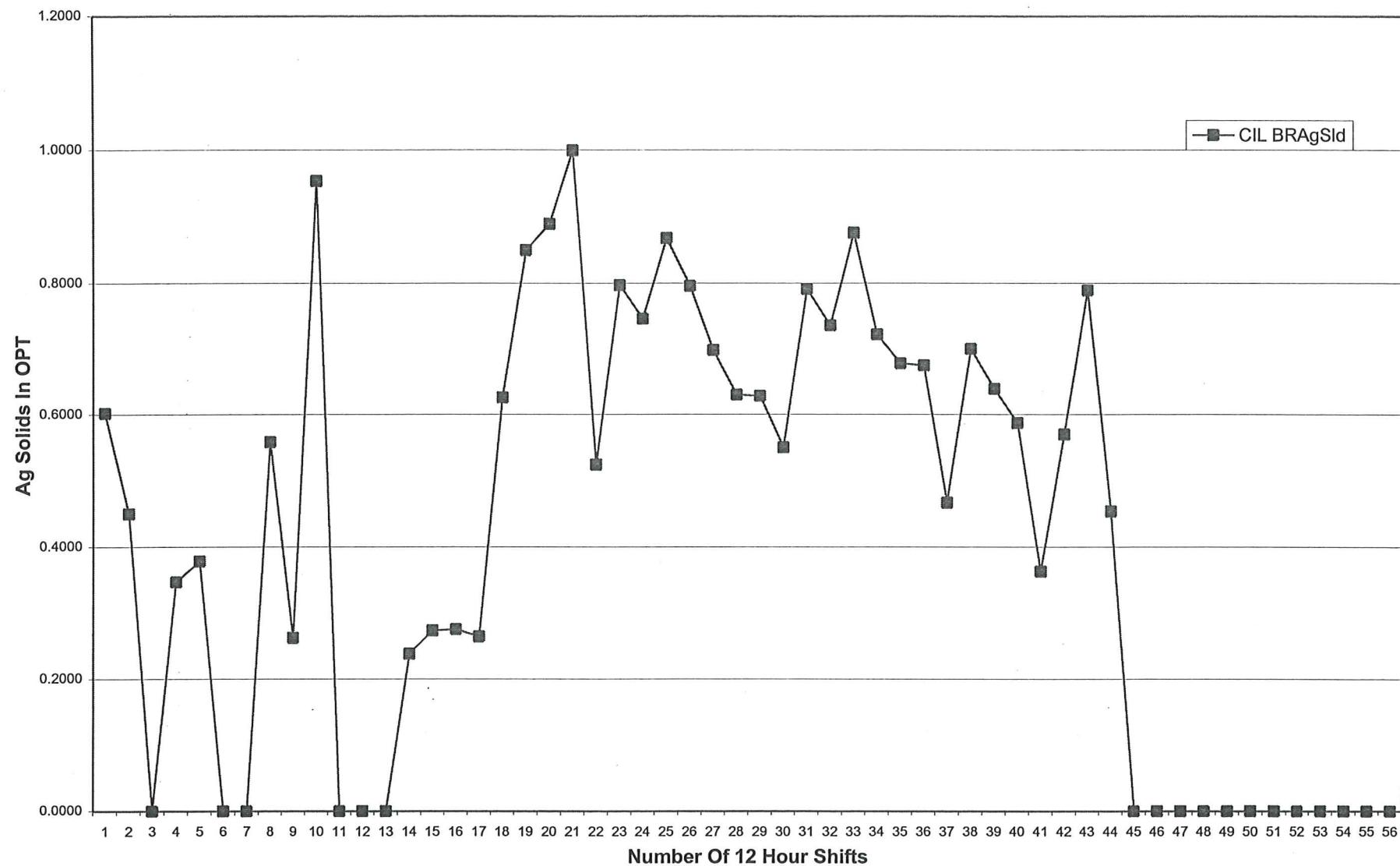
Au CIL Solids Trend - February 99 Lab Split



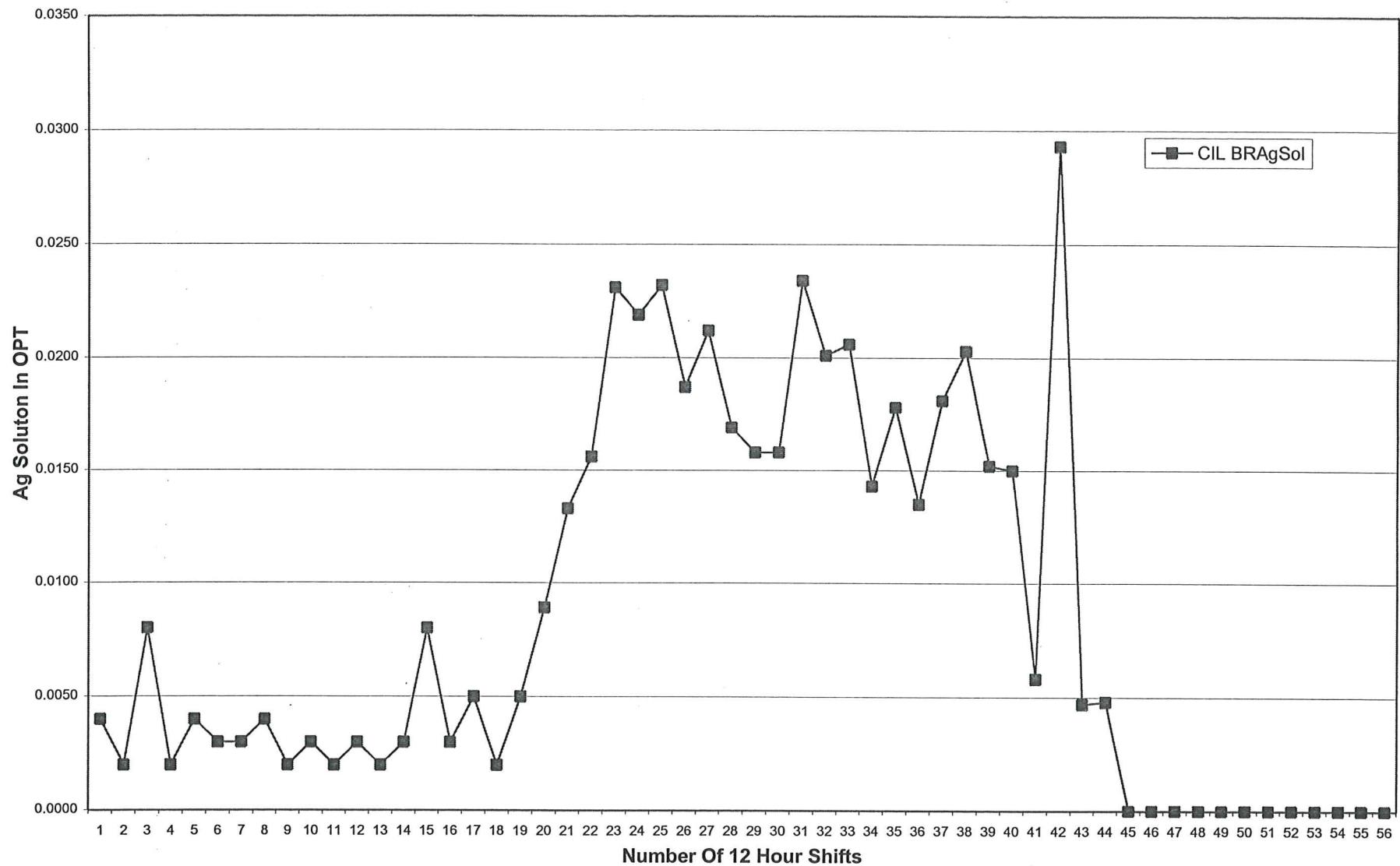
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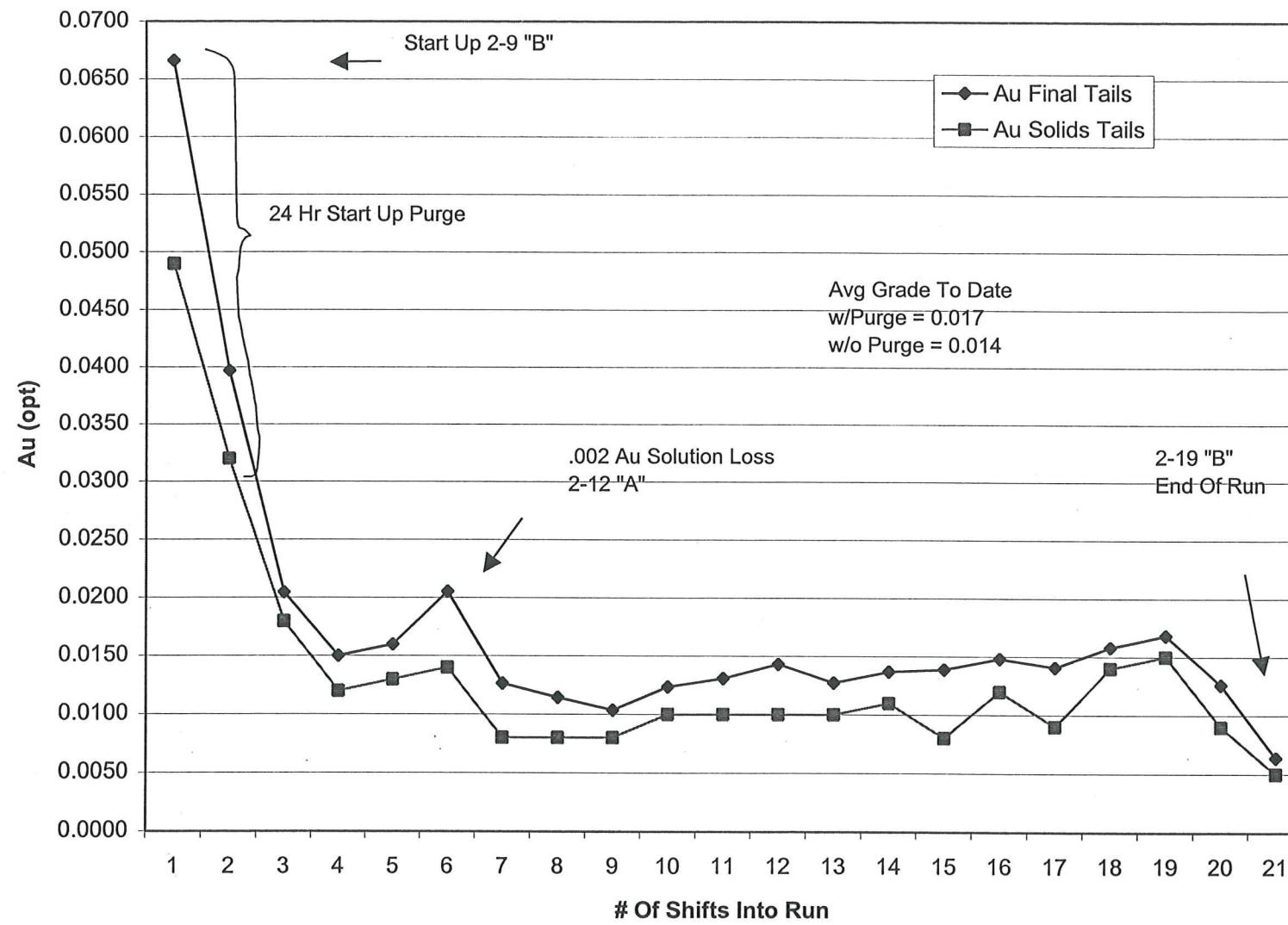
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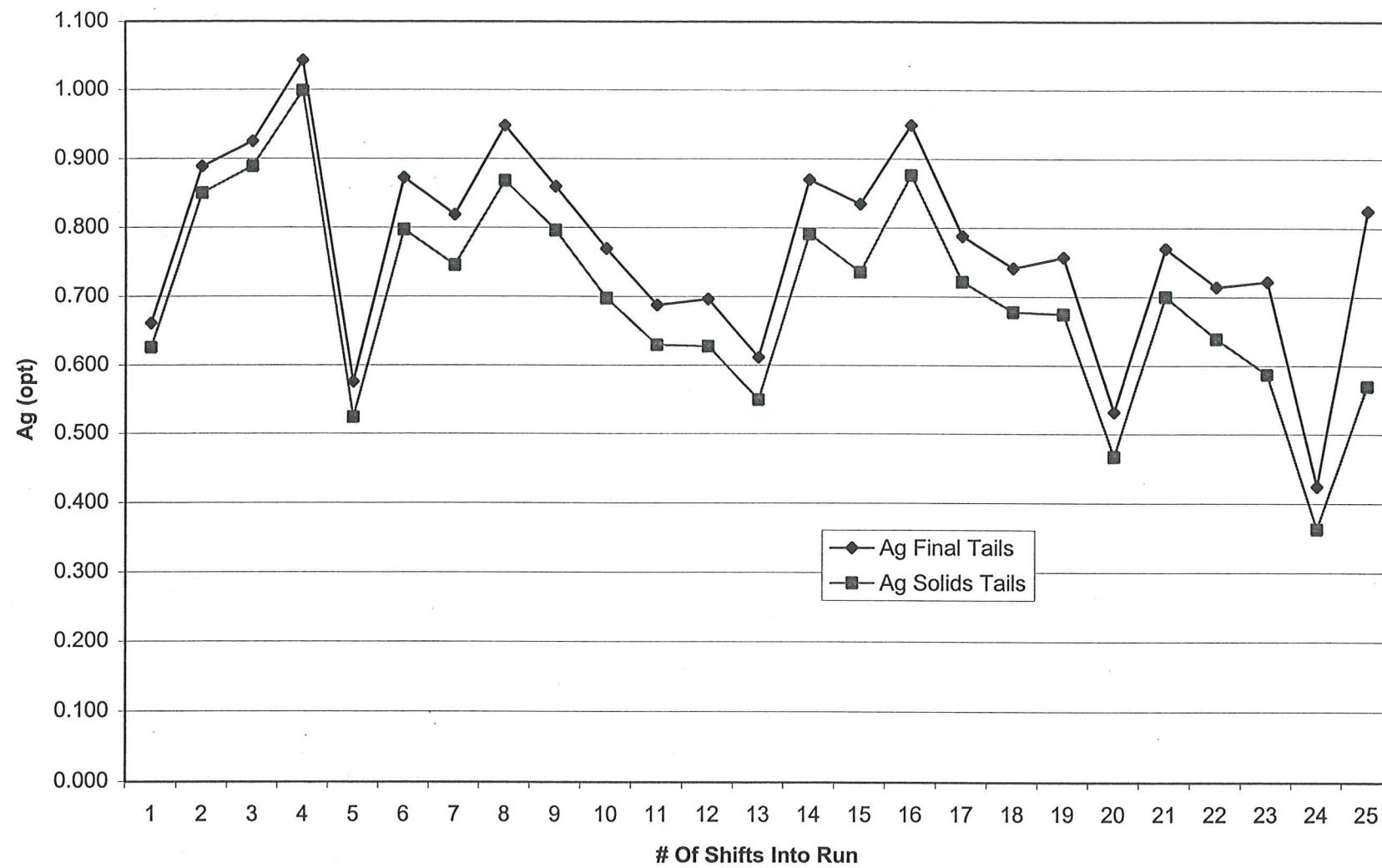
Ag CIL Solution Trend - February 99 Lab Split



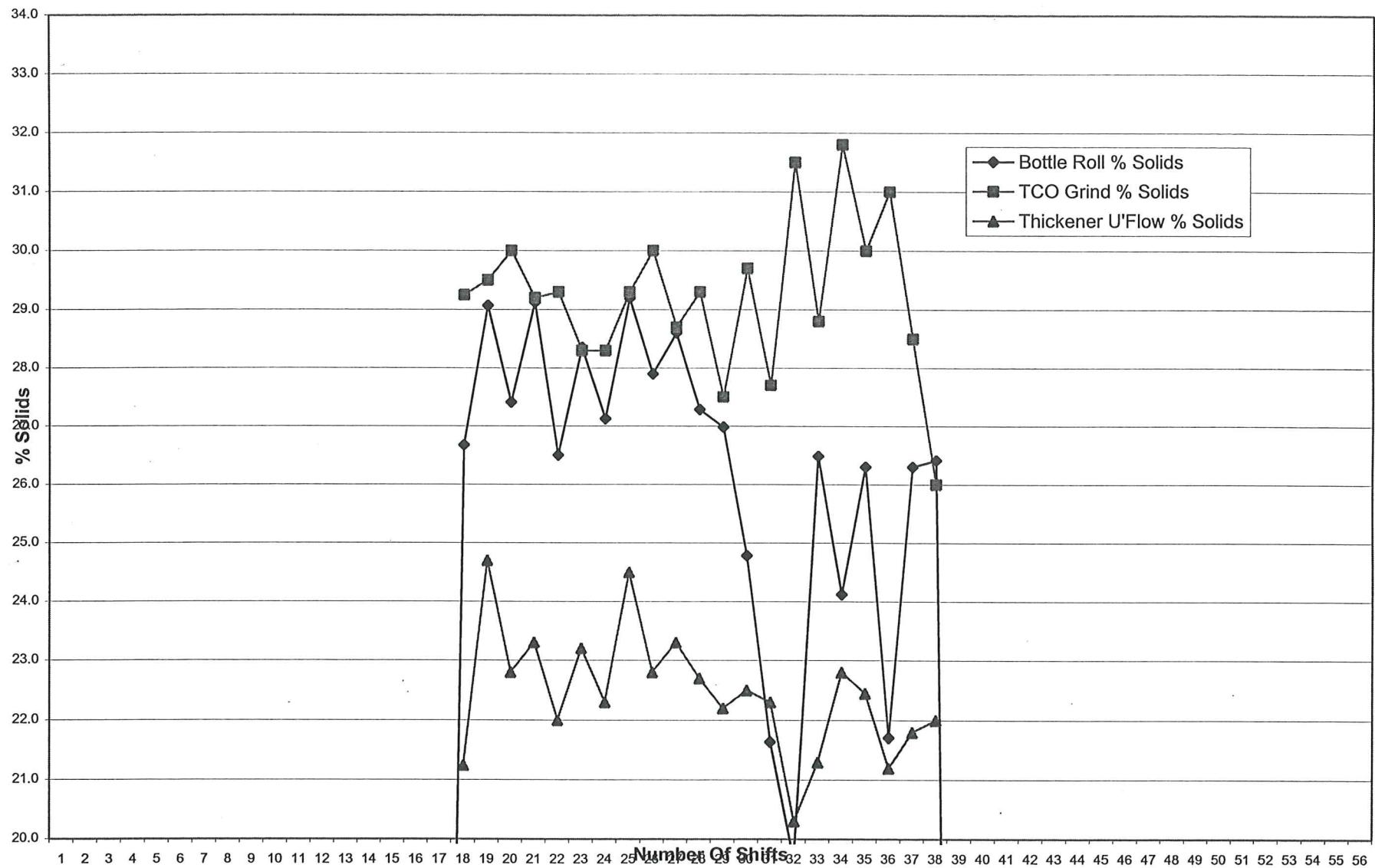
Feb 99 Au Tails



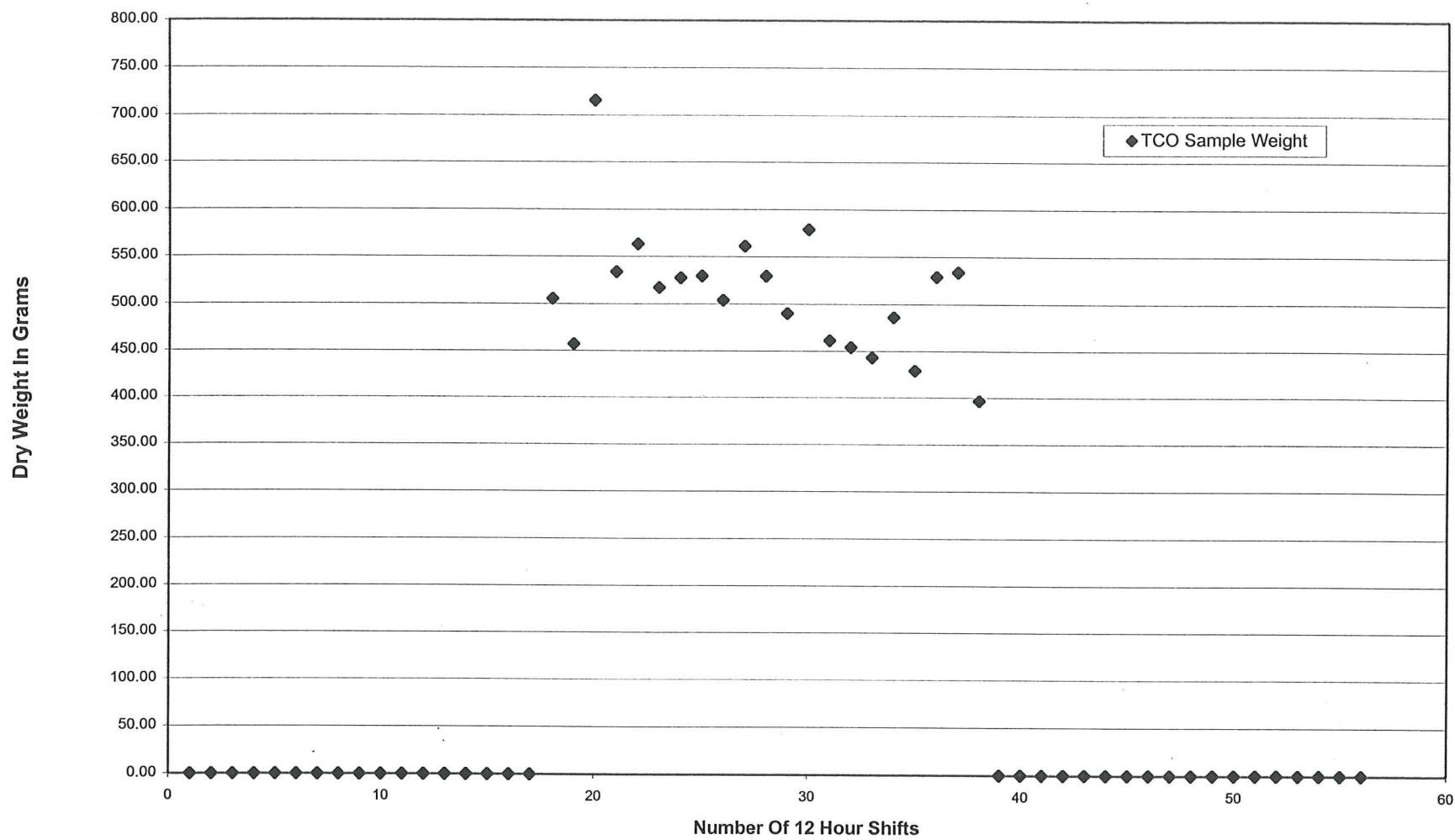
Feb 99 Ag Tails



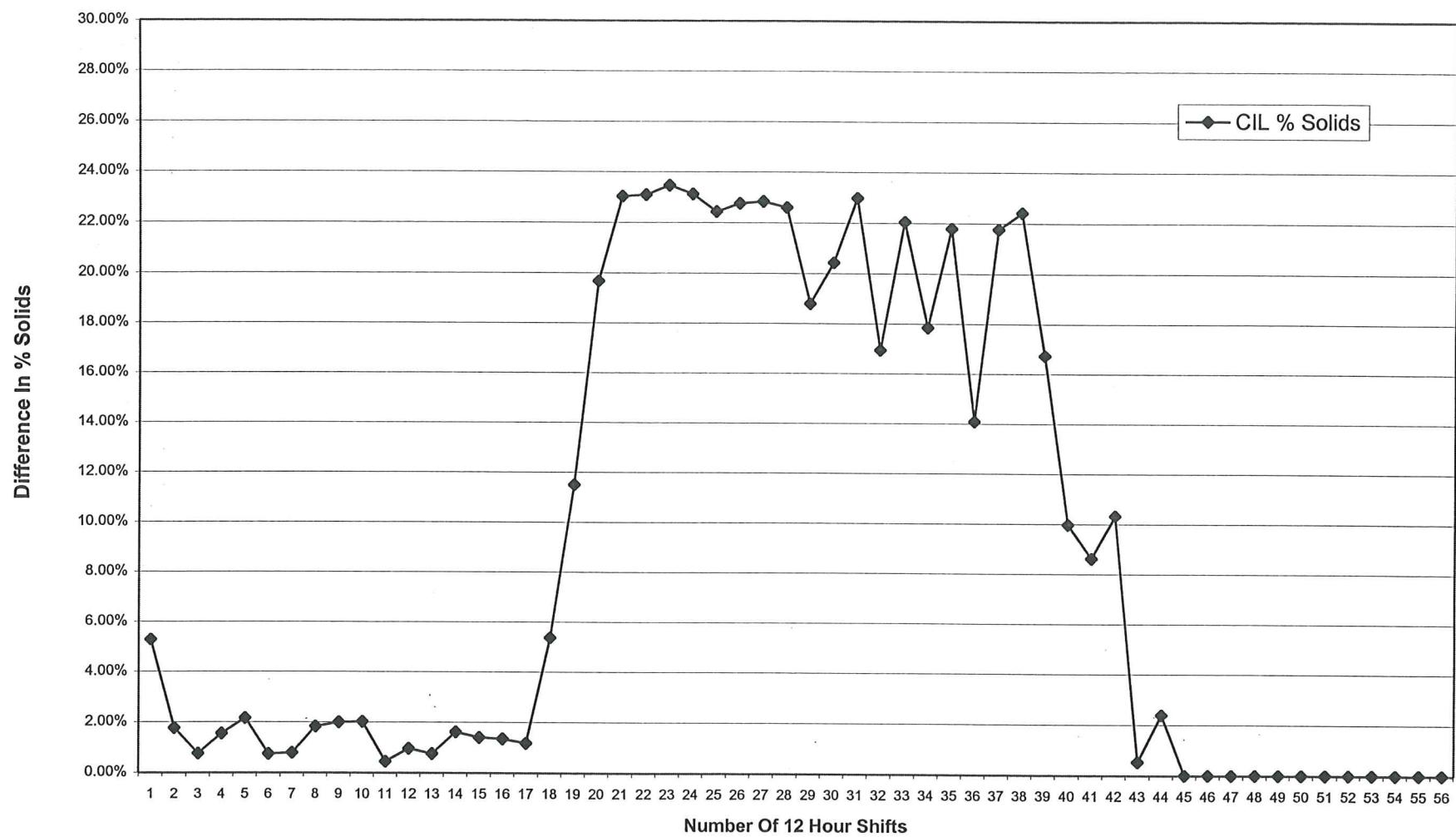
TCO % Solids Comparison February 99



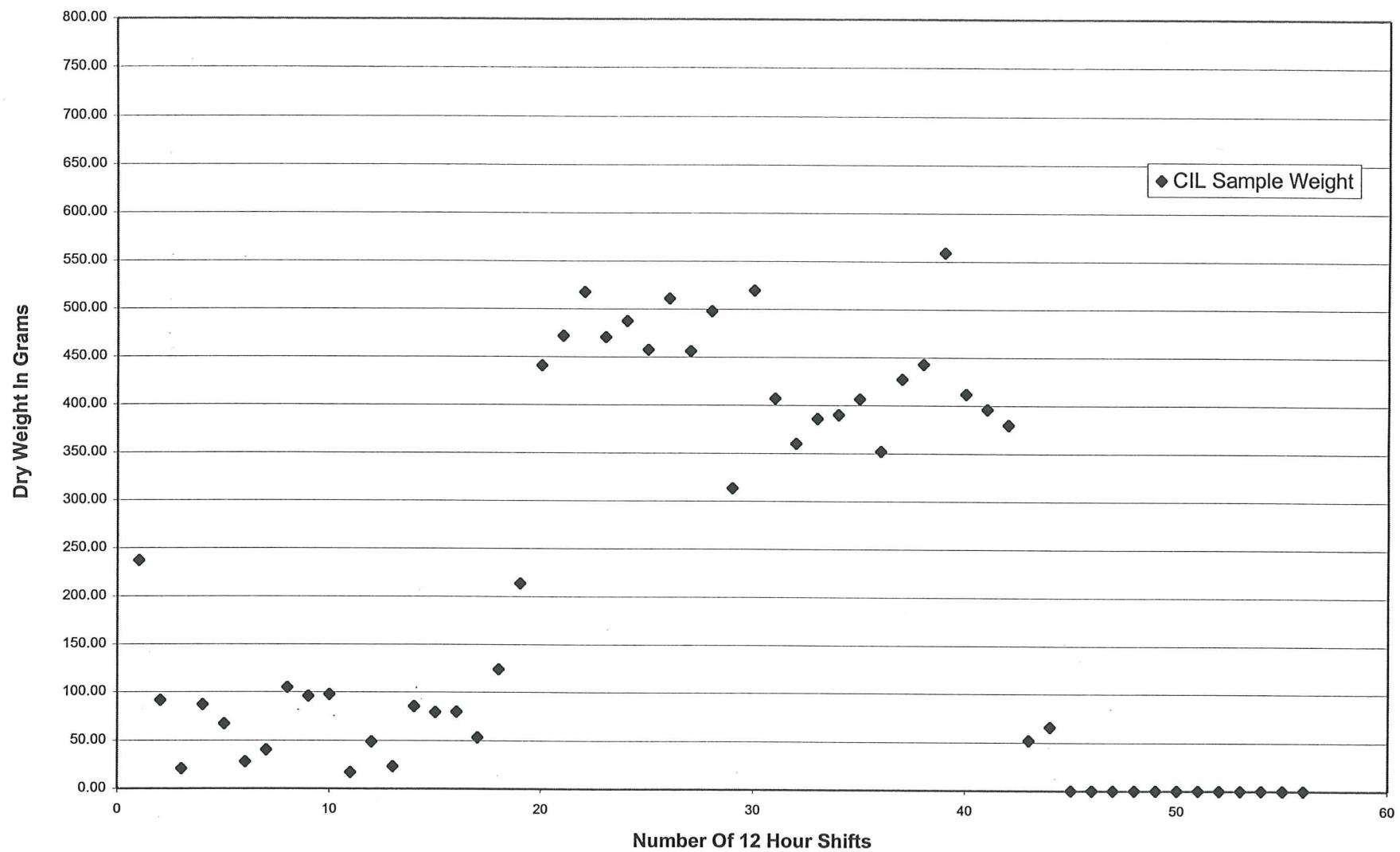
February 99 TCO Bottle Roll Dry Solids Sample Weight



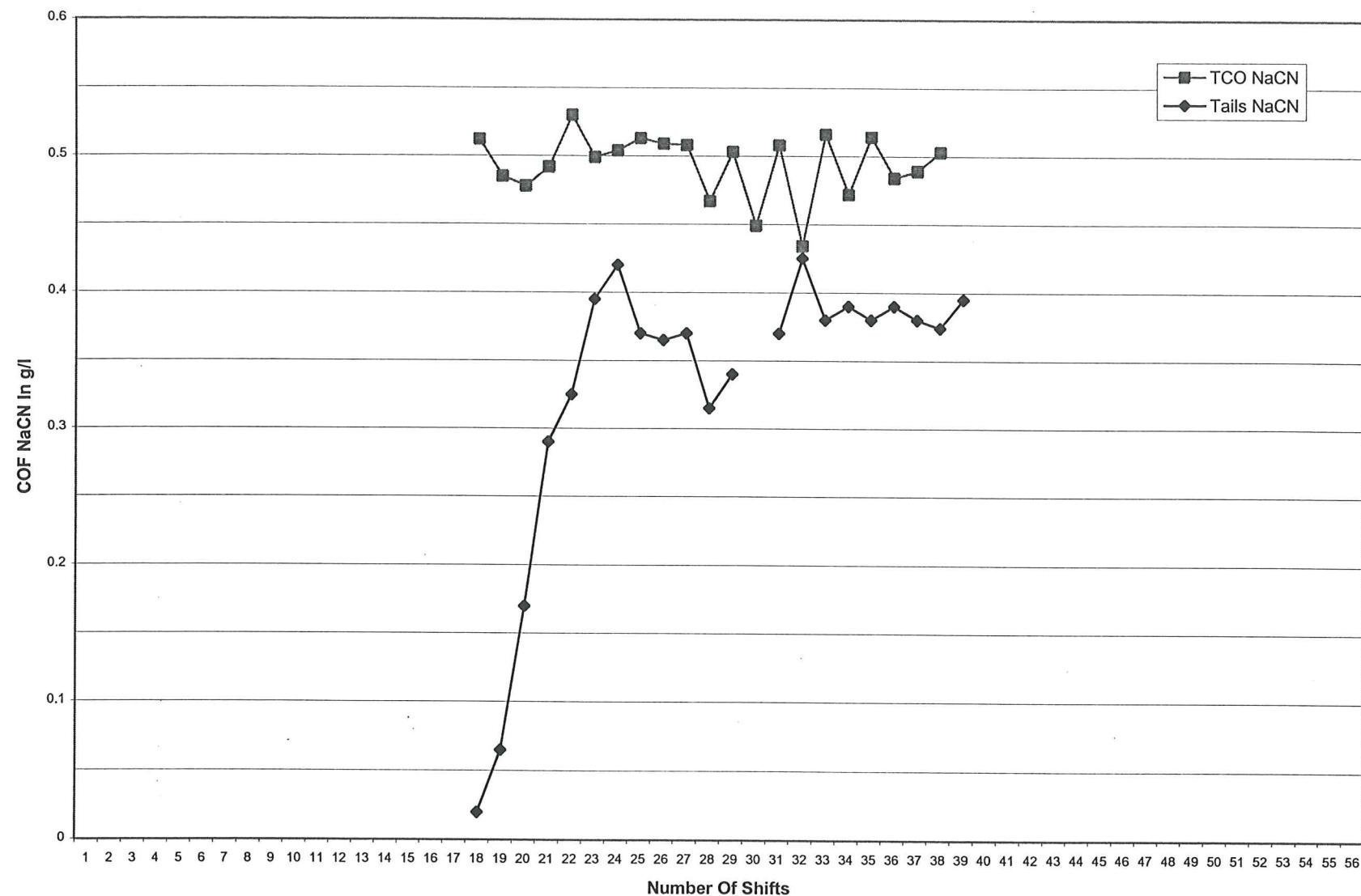
February 99 CIL Tails Lab Split % Solids



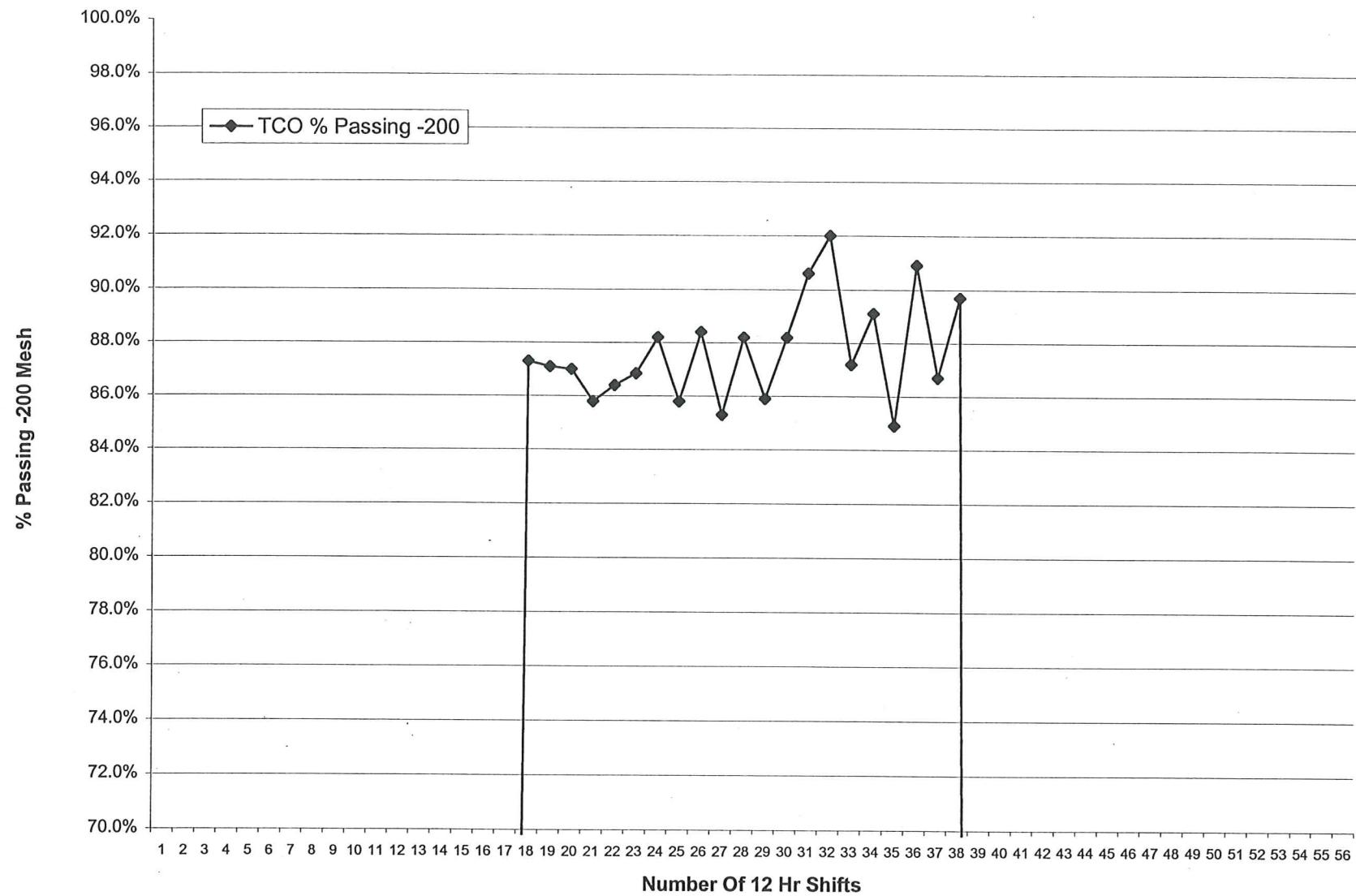
February 99 CIL Lab Split Dry Solids Sample Weight

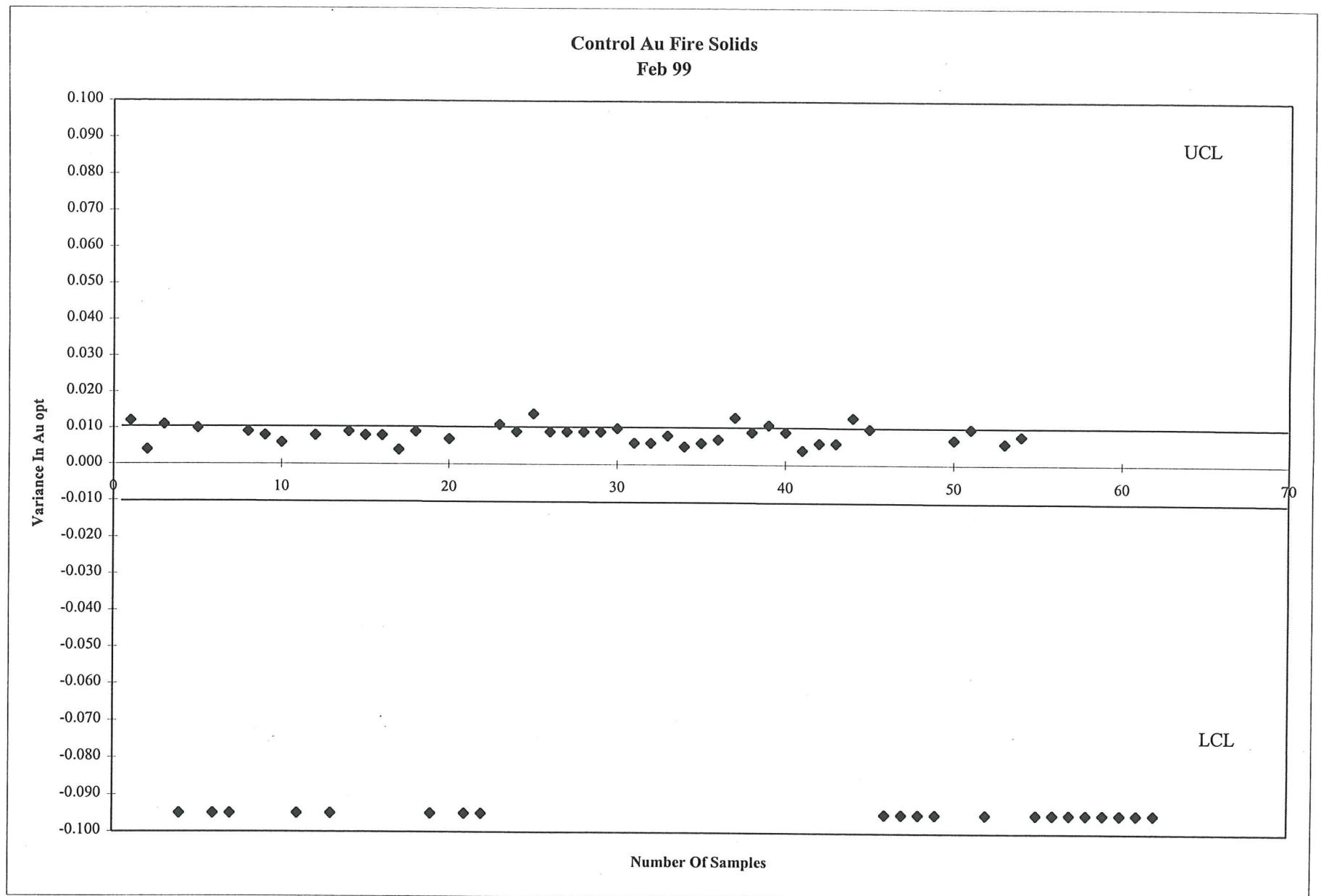


Cyanide Concentration Of Head & Tails Slurries February 99



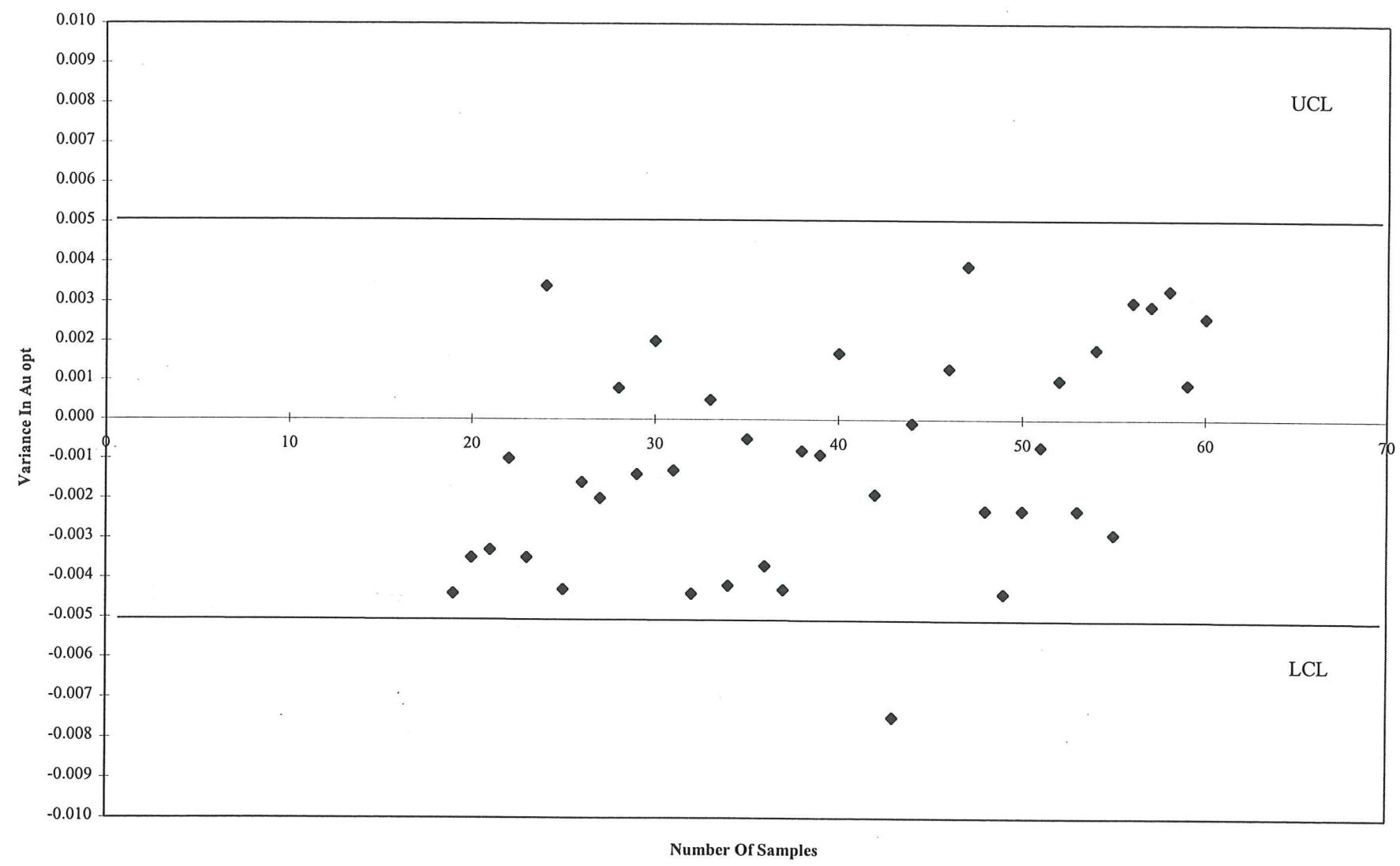
February 99 TCO % Passing -200





Control Au AA Solution

Feb 99



Control Ag Fire Solids
Feb 99

