# Mining District File Summary Sheet

DISTRICT	Kose byd	
DIST_NO	4010	
COUNTY  If different from written on document	Pershing	
TITLE If not obvious	Monthly Progress Report: Rose bud Mine- December 1999: January 12, 2000	
AUTHOR	Walde L. Kunfman R: Miller C.; Stilwell, J; Summere A; M. Wilson: E: Wollant, D: Dean D; Santtis: Tempel T: Shumway L; L	ull;
DATE OF DOC(S)	1999 - 2000 Clay	400
MULTI_DIST Y / N2 Additional Dist_Nos:	Ber Dex	
QUAD_NAME	Sulphus 7.5	
P_M_C_NAME (mine, claim & company names)	Rosebud Mine: Heela Minin Co.; Newmont Gold Co., Rosebud Mining Co; LLE	
COMMODITY  If not obvious	gold; silver	
NOTES	Monthy progress report; preduction: correspondence statements of operation; assays; mine maps	Ļ
	14 p	
Keep docs at about 250 page (for every 1 oversized page ( the amount of pages by ~25)	DB:	
Revised: 1/22/08	SCANNED:	

## **HECLA MINING COMPANY**

#### **MEMORANDUM**

January 12, 2000

TO:

Ron Clayton

FROM:

Mike Dexter

SUBJECT:

Monthly Progress Report, Rosebud Mine - December 1999

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

MD:Imz

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

Dale Dean

Grouse Creek

Rick Berezay

Scott Santti - JV Mgmt. Committee

Newmont Gold Company

P.O. Box 669

Carlin, NV 89822

Trent Tempel - JV Mgmt. Committee T

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** 

PO Box 669

Carlin, NV 89822

Jim Mullin - Sr. Vice President

**Newmont Gold Company** 

555 5th St.

Elko, NV 89801

# Hecla Mining Company Rosebud Mine December Monthly Report

## MINE PERSONNEL AND SAFETY

#### Staff

During the month, two hourly employees were hired and one employee was terminated. Hourly employment is now 69. Salary employment remained at 24. Total employment is 93.

### Safety

Rosebud employees reached another safety milestone at the end of December. As of December 31, we completed two calendar years without an MSHA lost-time injury. We ended the year with two MSHA reportable injuries. Rosebud employees have now gone 190 days without an MSHA reportable and 829 days without an MSHA lost-time injury. There are two mine rescue training sessions scheduled in January and the mine rescue banquet is scheduled for January 29.

#### **OPERATIONS**

## **Development**

The development crews advanced the St. Louis exploration drift 404 feet. The first muck bay in St. Louis was completed at 63 feet. Total development advance for St. Louis was 467 feet. Stope 33 slot access was developed 118 feet. Stope 33 left access was developed 44 feet. Stope 33 right access was developed 71 feet. Total development advance for Stope 33 was 233 feet. Stope 44 access was advanced 9 feet. Total development for the month was 709 feet.

#### Production

Production from stope #12 was 1,479 tons at a gold grade of .361 opt and a silver grade of 0.79 opt.

Production from stope #13 was 1,335 tons at a gold grade of .382 opt and a silver grade of 10.75 opt.

Production from stope #32 was 2,658 tons at a gold grade of .249 opt and a silver grade of 0.38 opt.

Production from stope #33 was 1,248 tons at a gold grade of .272 opt and a silver grade of 0.39 opt.

Production from stope #34 was 4,413 tons at a gold grade of .209 opt and a silver grade of 0.51 opt

Production from stope #43 was 1,965 tons at a gold grade of .360 opt and a silver grade of 10.85 opt.

An additional 4,365 tons of waste at a gold grade of .054 opt was mined from the stopes and sorted to the waste pile. Total ore stockpiled at month's end was 13,097 tons grading .280 Au opt and 3.10 opt silver. Shipment of this material to the Pinon Mill began on December 30.

# ♦ Hecla Mining Company Rosebud Mine December Monthly Report

## **GEOLOGY**

#### Production

Mine calculated (geology) tonnage and grade for ore shipped during the months of December and January (December's production - January's milling) was underestimated by 90 tons (-0.7%) as compared to survey, but outperformed the model by 450 ounces of gold (+14.0%) and by 17,109 ounces of silver (+459.7%) in the East zone. Mill results have not been received.

### **ENGINEERING**

#### Environmental

Other than the ongoing routine sampling and data gathering, the month was mostly consumed with correspondence, assembling data, and writing responses to the barrage of questions posed by Bob Carlson (NDEP). The final letter and two volumes of documentation were mailed on Thursday, December 23.

#### **Batch Plant**

A total of 14,060 tons of cemented backfill was placed in the mine during the month. Included were 29 tons of high-strength material placed on a portion of the main haulage road to stabilize a particularly soft area. 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 13		216 tons	,	216 tons
Stope 32		1,092 tons	927 tons	2,019 tons
Stope 33			3,251 tons	3,251 tons
Stope 34	109 tons	3,558 tons		3,667 tons
Stope 42			3,594 tons	3,594 tons
Stope 43		1,284 tons		1,284 tons
#1 Decline	29 tons			29 tons
Total	138 tons	6,150 tons	7,772 tons	14,060 tons

# ♦ Hecla Mining Company Rosebud Mine December Monthly Report

#### Mine Planning & General

Minor modifications were made to the St. Louis exploration drive, and the time-line schedule was revised to reflect difficult ground conditions that were encountered in the first 300 feet.

## PERFORMANCE

There were no expensed or capitalized discretionary costs during December. Capitalized costs year-to-date total \$99,818, \$370,182 less than budget. Expensed discretionary costs year-to-date total \$109,191, \$9,191 more than budget.

The mine produced 13,097 ore tons during December, 12,364 less than budget. The gold grade mined was 0.280 opt, 0.061 less than budget. The silver grade was 3.10 opt, which was .93 more than budget. Year-to-date mine production was 269,270 ore tons, 18,601 less than budget, at a gold grade of 0.408 opt, 0.040 opt better than budget, and a silver grade of 1.38 opt, 0.61 opt less than budget.

During December the mill recovered 7,991 gold ounces and 14,880 silver ounces, 880 more gold ounces and 8,935 less silver ounces than budget. Recoveries during the month were 94.2% for gold and 51.9% for silver which is equal to 1.7% less and 3.0% less than budget, respectively.

Year to date, the mill has recovered 112,652 gold ounces and 247,900 silver ounces, 10,671 more gold ounces and 68,905 less silver ounces than budget. Year-to-date recoveries are 95.1% for gold and 59.1% for silver, which are 0.9% worse and 4.1% better than budget, respectively.

Production costs for December totaled \$2,290,793 (\$174.90 per ore ton), \$646,955 more than budget (\$110.34 per ore ton more than budget). Year-to-date production costs total \$21,615,233 (\$80.28 per ore ton), \$405,442 less than budget (\$3.78 per ore ton more than budget).

Joint Venture exploration costs for December totaled \$35,511, which is \$7,911 more than budget. Year-to-date Joint Venture exploration costs total \$1,421,954, which is \$271,554 more than budget. Hecla 100% exploration costs for December totaled \$52,468, and year-to-date costs total \$413,442, all unbudgeted.

The per gold ounce produced costs achieved during December were:

•	Cash operating cost per gold ounce	\$ 276.59	\$ 61.61	more than budget
•	Total cash cost per gold ounce	\$ 287.71	\$ 56.82	more than budget
•	Total production cost per gold ounce	\$ 382.99	\$ 80.43	more than budget

# ♦ Hecla Mining Company Rosebud Mine December Monthly Report

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

•	Cash operating cost per gold ounce	\$ 182.98	\$ 18.90	less than budget
•	Total cash cost per gold ounce	\$ 198.32	\$ 20.14	less than budget
•	Total production cost per gold ounce	\$ 277.85	 \$ 11.94	less than budget

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

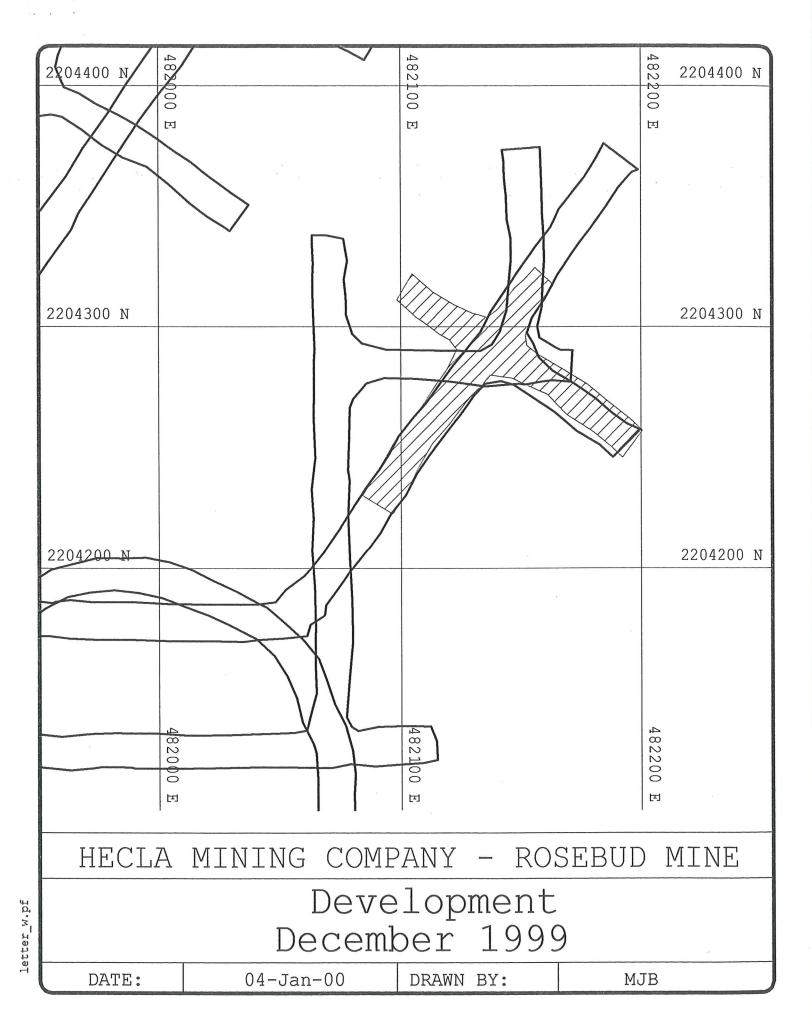
December 1999	December 1999 MONTH						QUARTER TO DATE							YEAR TO DATE						
		Actual		Budget		Variance		Actual		Budget		Variance		Actual		Budget		Variance		
Gross production value (GPV)	\$	2,339,661	\$	2,264,283	\$	75,378	\$	6.144.637	S	8,887,383	\$	(2,742,746)	\$	32,560,492	\$	.32,336,730	\$	223,762		
Less: Euro Nevada royalty		(93,586)		(90.571)		(3,015)		(245.785)		(355,495)		109,710		(1.302,419)		(1,293,470)		(8,949)		
Less: Shipping and refining		(12,279)		(12.370)		91		(41.560)		(45,232)	Name of the last o	3,672		(187,462)		(167,516)		(19,946)		
Net production value		2,233,796		2.161,342		72,454		5.857.292		8,486,656		(2,629,364)		31,070,611		30,875,744		194,867		
Cost of production																45				
Mine production costs		424,606		534.681		110.075		1.522.667		1.524,075		1,408		6,628,245		6,045,291		(582,954)		
Fixed mining costs		219,771		200.075		(19,696)		665.644		600,225		(65,419)		2,622,923		2,400,900		(222,023)		
L.L.C. Development		146,112		-		(146,112)		285,472		280,000		(5,472)		728,518		1,148,000		419,482		
Milling costs		295,261		423,451		128,190		996,937		1,304,693		307,756		4,505,648		5,284,561		778,913		
Trucking and site processing		202,311		238,540		36,229		588.692		735,014		146,322		2,862,833		3,042,163		179,330		
Site and general administration		198,470		227,125		28,655		568,179		692,875		124,696		2,631,745		2,942,200		310,455		
Geology		69,709		40,100		(29,609)		159.867		120,300		(39,567)		572,645		481,200		(91,445)		
Delineation drilling		89,074				(89,074)		92.877		50,000		(42,877)		154,099		195,000		40,901		
Engineering		35,799		35,800		1		92,890		107,400		14,510		360,361		429,600		69,239		
Change in ore stockpile and in-circuit inventory		609,680		(55,934)		(665,614)		516,579		(51,236)		(567,815)		548,216		51,760		(496, 456)		
Total cost of production		2,290,793		1.643,838		(646,955)		5,489.804		5,363,346	_	(126,458)	-	21,615,233	-	22,020,675		405,442		
Other costs		2,270,775		1.0 10,000		(0.10,100)						(121)1117								
Property taxes		(9,900)		10,000		19,900		5.100		30,000		24,900		72,600		120,000		47,400		
Net proceeds taxes		(4,685)		22,554		27,239		7,930		146,203		138,273		425,993		397,903		(28,090)		
Reclamation expense		23,227		22,304		(923)		79,494		68,726		(10,768)		323,067		284,452		(38,615)		
Interest (income)		(5,436)		(6,500)		(1.064)		(18,214)		(19,500)		(1,286)		(63,384)		(78,000)		(14,616)		
(Gain) loss on the sale of fixed assets		(5,150)		(0,500)		(1,55.7)		(15,2.1)		(,)		(.,=)		(8,981)		-		8,981		
Depreciation		738.141		487,359		(250.782)		1.863.080		1,923,529		60,449		8,636,803		6,989,363		(1,647,440)		
Total other costs		741,347		535,717		(205.630)	-	1.937.390	-	2,148,958		211,568	_	9,386,098	-	7,713,718		(1,672,380)		
Total office costs															-					
Total operating costs		3.032.140		2.179,555		(852.585)		7,427,194		7,512.304		85,110		31,001,331		29.734.393		(1,266,938)		
Exploration expenditures - Joint Venture		35.511		27,600		(7.911)		76.546		97,100		20,554		1,421,954		1,150,400		(271,554)		
Exploration expenditures - 100% Hecla		52.468		-		(52.468)		302.507		-		(302,507)		413,442		-		(413,442)		
Discretionary expenditures		-											7	109,191		100,000		(9,191)		
Total costs		3,120,119	9	2.207,155		(912,964)		7.806.247	-	7.609.404		(196,843)		32,945,918		30,984,793		(1,961,125)		
Net income (loss) to Exhibit B	\$	(886,323)	\$	(45,813)	\$	(840,510)	\$	(1.948.955)	\$	877,252	<u>s</u>	(2.826,207)	\$	(1,875,307)	\$.	(109,049)	\$	(1,766,258)		
Cash operating cost per gold ounce		\$276.59		\$214.98		(\$61.61)		\$263.97		\$176.42		(\$87.55)		\$182.98		\$201.88		\$18.90		
Total cash costs per gold ounce		\$287.71		\$230.89		(\$56.82)		\$276.59		\$194.30		(\$82.29)		\$198.32		\$218.46		\$20.14		
Total production costs per gold ounce		\$382.99		\$302.56		(\$80.43)		\$373.28		\$265.28		(\$108.00)		\$277.85		\$289.79		\$11.94		
Summary of Production																S45				
Tons of ore mined:		13,097		25,461		(12.364)		56.252		72,575		(16.324)		269,270		287,871		(18,601)		
Gold - ounces per ton		0.280		0.341		(0.061)		0.310		0.373		(0.063)		0.408		0.368		0.040		
Silver - ounces per ton		3.10		2.17		0.93		1.54		2.21		(0.67)		1.38		1.99		(0.61)		
Tons of ore milled:		18,746		22,607		(3.861)		64.157		69.659		(5.502)		280,694		288.313		(7,619)		
Gold - ounces per ton		0.365		0.328		0.037		0.323		0.420		(0.097)		0.419		0.368		0.051		
Silver - ounces per ton		1.13		1.92		(0.79)		1.12		2.22		(1.10)		1.48		2.00		(0.53)		
Mill recovery rate - gold		94.2%		95.9%		-1.7%		94.700		96.0%		-1.3%		95.1%		96.0%		-0.9%		
Mill recovery rate - silver		51.9%		54.9%		-3.000		55.2%		55.0%		0.2%		59.1%		55.0%		4.1%		
Products produced:																				
Gold - ounces		7,991		7,111		880		20,092		28,066		(7.974)		112,652		101,981		10,671		
Silver - ounces		14,880		23,815		(8.935)		40.663		85,015		(44.352)		247,900		316,805		(68,905)		
Employees at end of period:										2				*						
Hourly		69		75		6		69		75		6		69		75		6		
Salary		24		27		3		24		27		3		24		27		3		
Capitalized expenditures	\$	-	S	-	S	-	S		\$	-	\$	-	\$	99,818	\$	470,000	\$	370,182		
Supranized expenditures	-		-		-		•		-71		-				-	10.000	-	0.00		

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

						OUL DEPORT TO DESCRIPTION						, , , , , , , , , , , , , , , , , , , ,								
December 1999	1000 545 (000 1000 1000 1000 1000 1000 1000 100					QUARTER TO DATE						YEAR TO DATE								
	Actual		Budget		Variance	Acti			Budget	Vari			Actual		Budget		riance			
Gross production value (GPV)		78.64	\$ 88.93	S	89.71	\$	109.24	\$	122.46	\$	(13.22)	\$	120,92		112.33	S	8.59			
Less: Euro Nevada royalty		(7.15)	(3.56)		(3.59)		(4.37)		(4.90)		0.53		(4.84)		(4.49)		(0.35)			
Less: Shipping and refining		(0.94)	(0.49)		(0.45)		(0.74)		(0.62)		(0.12)		(0.70)		(0.58)		(0.12)			
Net production value	1	70.55	84.88		85.67		104.13		116.94		(12.81)		115.38		107.26		8.12			
Cost of production																				
Mine production costs		32.42	21.00		(11.42)		27.07		21.00		(6.07)		24.62		21.00		(3.62)			
Fixed mining costs		16.78	7.86		(8.92)		11.83		8.27		(3.56)		9.74		8.34		(1.40)			
L.L.C. Development		11.16	-		(11.16)		5.07		3.86		(1.21)		2.71		3.99		1.28			
Milling costs		22.54	16,63		(5.91)		17.72		17.98		0.26		16.73		18.36		1.63			
Trucking and site processing		15.45	9.37		(6.08)		10.47		10.13		(0.34)		10.63		. 10.57		(0.06)			
Site and general administration		15.15	8.92		(6.23)		10.10		9.55		(0.55)		9.77		10.22		0.45			
Geology		5.32	1.57		(3.75)		2.84		1.66		(1.18)		2.13		1.67		(0.46)			
Delineation drilling		6.80	•		(6.80)		1.65		0.69		(0.96)		0.57		0.68		0.11			
Engineering		2.73	1.41		(1.32)		1.65		1.48		(0.17)		1.34		1.49		0.15			
Change in ore stockpile and in-circuit inventory		16.55	(2.20)		(48.75)		9.18		(0.71)		(9.89)		2.04		0.18		(1.86)			
Total cost of production	11	74.90	64.56		(110.34)		97.58		73.91		(23.67)		80.28		76.50		(3.78)			
Other costs														-						
Property taxes		(0.76)	0.39		1.15		0.09		0.41		0.32		0.27	1	0.42		0.15			
Net proceeds taxes		(0.36)	0.89		1.25		0.14		2.01		1.87		1.58		1.38		(0.20)			
Reclamation expense		1.77	0.88		(0.89)		1.41		0.95		(0.46)		1.20		0.99		(0.21)			
Interest (income)		(0.42)	(0.26)		0.16		(0.32)		(0.27)		0.05		(0.24)		(0.27)		(0.03)			
(Gain) loss on the sale of fixed assets					-				-		-		(0.03)				0.03			
Depreciation	-	6.36	19.14		(37.22)		33.12		26.50		(6.62)		32.07		24.28		(7.79)			
Total other costs		6.59	21.04		(35.55)		34.44		29.60		(4.84)	8-	34.85		26.80		(8.05)			
					-					-						_				
Total operating costs	23	31.49	85,60		(145.89)		132.02		103,51		(28.51)		115.13		103.30		(11.83)			
Exploration expenditures - Joint Venture		2.71	1.08		(1.63)		1.36		1.34		(0.02)		5.28		4.00		(1.28)			
Exploration expenditures - 100% Hecla		4.01			(4.01)		5.38		-		(5.38)		1.54				(1.54)			
Discretionary expenditures		-					-		-		-		0.41		0.35		(0.06)			
Total costs	2.	88.21	86,68		(151.53)		138.76		104,85		(33.91)		122.36		107.65		(14.71)			
								2000						2						
Net income (loss) to Exhibit B	\$ (0	57.66)	\$ (1.80)	<u>s</u>	(65.86)	\$	(34.63)	\$	12.09	\$	(46.72)	\$	(6.98)	\$	(0.39)	\$	(6.59)			
Cash operating cost per gold ounce	\$27	76.59	\$214.98		(\$61.61)		\$263.97		\$176.42		(\$87.55)		\$182.98		\$201.88		\$18.90			
Total cash costs per gold ounce		37.71	\$230,89		(\$56.82)		\$276.59		\$194.30		(\$82.29)		\$198.32		\$218,46		\$20.14			
Total production costs per gold ounce		32,99	\$302,56		(\$80.43)		\$373.28		\$265.28		(\$108.00)		\$277.85		\$289.79		\$11.94			
roun production costs per gord outlier	13.5	570	XT. TAKE		(431.10)				4202.20		(\$100,00)		\$277.05		0207.77		311.71			
Summary of Production															1					
Tons of ore mined:	13	3,097	25.461		(12.364)		56,252		72.575		(16.324)		269,270		287,871		(18,601)			
Gold - ounces per ton	(	0.280	0.341		(0.061)		0.310		0.373		(0.063)		0.408		0.368		0.040			
Silver - ounces per ton		3.10	2.17		0.93		1.54		2,21		(0.67)		1.38		1.99		(0.61)			
Tons of ore milled:	18	3.746	22,607		(3.861)		64.157		69,659		(5,502)		280,694		288,313		(7.619)			
Gold - ounces per ton		0.365	0.328		0.037		0.323		0.420		(0.097)		0.419		0,368		0.051			
Silver - ounces per ton		1.13	1.92		(0.79)		1.12		2.22		(1.10)		1.48		2.00		(0.53)			
Mill recovery rate - gold		04.2%	95.9%		-1.70 6		94.7%		96.0%		-1.3%		95.1%		96.0%		-0.9%			
Mill recovery rate - silver		51.9%	51.9%		-3.0%		55.2%		55,0%		0.2%		59.1%		55.0%		4.1%			
Products produced:									22.3 4		V.= / U		22.170		55.070		7.1.0			
Gold - ounces		7,991	7.111		880		20.092		28.066		(7.974)		112,652		101,981		10.671			
Silver - ounces		1.880	23.815		(8.935)		40.663		85,015		(44,352)		247,900		316,805		(68.905)			
Employees at end of period:		.,500	25.015		(0.755)		10,005		05,015		(44,332)		247,900		310,003		(00,503)			
Hourly		69	75		6		69		75		6		69		75		6			
		24	27		3		24		73 27											
Salary	S	24	s -	S	3	2	24	S	27	•	3	•	24		27		3			
Capitalized expenditures	P	-	5 -	2	-	Þ	-	P	-	\$	-	\$	99,818	\$	470,000	\$	370,182			

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

December 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		-	-	17 1 <del>-</del>	60,000	60,000	-	60,000	60,000			
Equipment: Water Well #4 (0402) 92-2210-605 U/G equipment (0402) 92-2210-xxx	÷	-	-	-	60,000	60.000	-	60,000	60,000			
Development: U/G development (0401) 92-2110-xxx and (0402) 92	-	-	-	99,818	350,000	250,182	99,818	350,000	250,182			
Total Capitalized Discretionary	\$ -	s -	S -	S 99,818	\$ 470,000	S 370,182	\$ 19,077,685	\$ 26,085,591	\$ 7,007,906			
Expensed Discretionary Total Discretionary Spending through 1998		•	-	-	-	-	405,140	407,506	2,366			
Bioremediation Site (9126) 99-0001-xxx	-	-	-	-	40.000	40,000	-	40,000	40,000			
Underground equipment rebuilds (9126) 99-0002-xxx	-			109.191	60.000	(49,191) -	109.191	60,000	(49,191) -			
Total Expensed Discretionary	S -	s -	s -	S 109,191	\$ 100,000	\$ (9,191)	\$ 514,331	\$ 507,506	\$ (6,825)			



# **Newmont Mining Corporation** Rosebud Mining Company LLC

Date: January 12, 2000

To: cc: Mike Dexter

Kurt Allen

Ron Clayton

Fr:

R. B. Vance

Subj: Rosebud Exploration Monthly Report: December, 1999

# Geology

Two of the sanidine-bearing rocks submitted for age-dates are completed. The porphyritic lava flow from near the summit of Big Chocolate Mountain (NWRA 2652B) returned a date of 25.87±0.14 Ma. Rosebud quartz latite collected northeast of White Alps (NWRA 2651) returned a date of 26.08±0.14 Ma. The respective analytical errors overlap and are indistinguishable. These two samples place the age of the Kamma Mountain Volcanics as late Oligocene, rather than the Miocene age most of us expected. The samples for the Bud Marker porphyry, alunite, and illite are pending. I had expected mineralization and the host volcanic rocks to be essentially coeval, at ~15 Ma. I still expect the age of mineralization to be 15-16 Ma or younger. An Oligocene age of mineralization (~26 Ma) will indeed be a surprise.

Peter Mitchell and Tom Westervelt completed their Wild Rose report, and colored copies are being prepared for distribution.

An Autocad drawing entitled "2000 Planned Activities Map" is being prepared for submission to the BLM and State of Nevada, as required by the Plan of Operation. The areas depicted within the exploration Plan of Operation are based on Hecla's 2000 budgeted activities. The map is not binding on the actual exploration in any way.

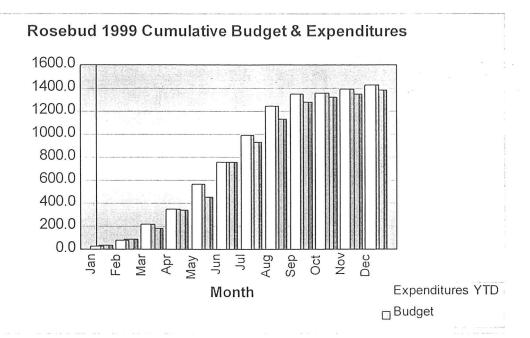
#### Reclamation

Reclamation of sumps, pads, roads and trenches totaling 7.7 acres was completed at the Chance, Gator, North Equinox, White Alps, Short Shot, Degerstrom, Brown Palace, Dreamland, and Mother Lode targets. A road and reclamation status map was updated to reflect this work.

#### Administration

The Rosebud exploration expenditure during December was \$35,511, bringing the YTD expenditure to \$1,421,955 (103.4% of the revised budget). This final number was very close to recent projections of about \$1.425 million. Table 1 shows the 1999 cumulative expenditures and budgeted amounts.

Table 1.



**Date:** January 12, 2000

# Newmont Mining Corporation Rosebud Mining Company LLC

To: Mike Dexter

cc: Kurt Allen

Ron Clayton

Fr: R. B. Vance

Subj: Rosebud Exploration Monthly Report: December, 1999

## Geology

Two of the sanidine-bearing rocks submitted for age-dates are completed. The porphyritic lava flow from near the summit of Big Chocolate Mountain (NWRA 2652B) returned a date of 25.87±0.14 Ma. Rosebud quartz latite collected northeast of White Alps (NWRA 2651) returned a date of 26.08±0.14 Ma. The respective analytical errors overlap and are indistinguishable. These two samples place the age of the Kamma Mountain Volcanics as late Oligocene, rather than the Miocene age most of us expected. The samples for the Bud Marker porphyry, alunite, and illite are pending. I had expected mineralization and the host volcanic rocks to be essentially coeval, at ~15 Ma. I still expect the age of mineralization to be 15-16 Ma or younger. An Oligocene age of mineralization (~26 Ma) will indeed be a surprise.

Peter Mitchell and Tom Westervelt completed their Wild Rose report, and colored copies are being prepared for distribution.

An Autocad drawing entitled "2000 Planned Activities Map" is being prepared for submission to the BLM and State of Nevada, as required by the Plan of Operation. The areas depicted within the exploration Plan of Operation are based on Hecla's 2000 budgeted activities. The map is not binding on the actual exploration in any way.

#### Reclamation

Reclamation of sumps, pads, roads and trenches totaling 7.7 acres was completed at the Chance, Gator, North Equinox, White Alps, Short Shot, Degerstrom, Brown Palace, Dreamland, and Mother Lode targets. A road and reclamation status map was updated to reflect this work.

#### Administration

The Rosebud exploration expenditure during December was \$35,511, bringing the YTD expenditure to \$1,421,955 (103.4% of the revised budget). This final number was very close to recent projections of about \$1.425 million. Table 1 shows the 1999 cumulative expenditures and budgeted amounts.

Table 1.

