

## Mining District File Summary Sheet

DISTRICT	Rosebud
DIST_NO	4010
COUNTY	Pershing
If different from written on document	
TITLE	Rosebud Dr. II Hole File - 1995 Far East / Soutl East Drilling
If not obvious	
AUTHOR	C. Muerhoff; R. Clayton; R. Tschander N. Adams; S. Atkins; D. Backstrom; J. Chuck; L Fleming; K Allen; SKing
DATE OF DOC(S)	1995
MULTI_DIST Y / N?	
Additional Dist Nos:	
QUAD_NAME	Sulphur 7.5'
P_M_C_NAME (mine, claim & company names)	Rosebud Mine; Rosebud Project; Hecla Mining Co, Northwest Drilling
COMMODITY	gold; silver
If not obvious	
NOTES	Autobcy of expenditure; receipts; correspondence project summary; location map; assays
	137 p 139

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)

Revised: 1/22/08

SS: DD 6/5/08  
Initials Date  
DB: moh 7/1/08  
Initials Date  
SCANNED: JV Blue  
Initials Date

1995 FAR EAST / SOUTH EAST DRILLING

60001710 4010

60001710

## AUTHORITY FOR EXPENDITURE

DEPARTMENT NO.	DEPARTMENT: ROSEBUD PROJECT EXPLORATION	LOCATION: PERSHING COUNTY, NEVADA	DATE: June 6, 1995
PURPOSE :			BUDGETED
PROGRAMMED EXPANSION, COST REDUCTION, & OPTIONAL REPLACEMENTS AND ADDITIONS SUBJECT TO MINIMUM RETURN ON INVESTMENT			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
<input checked="" type="checkbox"/> NECESSARY REPLACEMENTS, AND "OTHER" EXPENDITURES NOT SUBJECT TO RETURN ON INVESTMENT			
RETURN ON INVESTMENT	REQUIRED % N/A	% THIS PROPOSAL N/A	CALCULATED BY CBW
			AMOUNT REQUESTED (TOTAL COST) \$358,600

## EXPENDITURE DESCRIPTION:

Funds are requested from the expensed exploration budget to conduct a drilling program on extensions of the Rosebud Deposit. The program will drill-test proximal targets located south and southeast of the current reserves and will consist of 10,000 feet of diamond drilling in a total of 14 holes. This exploration has the potential to discover 150 to 300 thousand tons at grades similar to the known resource and to add 50 to 100 thousand ounces of gold to the drill-inferred resource. The program is necessary to meet project goals and is discussed in detail in the attached proposal.

CHARGE	COST CENTER		ACCOUNT			CAP. BUDG. CATG.	AUTHORITY	ADDITIONAL INFORMATION
	GRP	NUMBER	G/L	DETAIL	SUB- DETAIL			
EXPENSE								
CAPITAL								
ESTIMATED BY: Contractor Bid	AFE MADE BY:	CHECKED BY: <i>Charles V. Murphy</i>			MATERIAL TRANSFERRED			
APPROVED BY: <i>Charles V. Murphy</i>					CASH OUTLAY	\$326,000		
APPROVED BY: <i>Mark Schellin 6/6/95</i>					CONTINGENCIES	\$ 32,600		
APPROVED BY: <i>Mark Schellin 6/6/95</i>					TOTAL COST	\$358,600		
APPROVED BY: <i>Mark Schellin 6/6/95</i>					SALVAGE (PRES. VALUE)			
VICE PRESIDENT:					CHARGEABLE TO OTHERS			
CONTROLLER:					NET COST	\$		
					DATE APPROVED:			

HECLA MINING COMPANY  
ROSEBUD PROJECT

June 6, 1995

Memo to: Ron Clayton

From: Craig B. Wineteer *(CBW)*

Subject: Surface drilling program on extensions of the Rosebud Deposit; proximal target exploration.

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Summary

Funds are requested for a surface drilling program at Hecla Mining Company's Rosebud Project, Pershing County, Nevada. This is budgeted exploration with the objective to confirm ore-grade extensions of the Rosebud Deposit and to add a minimum of 50,000 ounces of gold to the drill-inferred resource. The proposed program will drill-test proximal targets that have the potential to add 1/2 to 1 year of production to the mine life of the Rosebud Deposit. Total expenditures for the drilling program are \$358,600 (Table 1).

Upon approval, the program will be implemented immediately and must be completed by 30 September, 1995. Compilation and interpretation of the geologic and analytical results will be completed by 20 October, 1995. An inferred resource document will be completed on 31 October, 1995.

The proposed program will test proximal target areas located to the east and southeast of the East and South Zone ore bodies (Figure 1). The program consists of 10,000 feet of diamond drilling in a total of 14 holes. Drill holes range in depth from 350 to 1,100 feet, with an average depth of roughly 650 feet. Holes are designed to result in intercept drill-spacing of  $\pm$  75 feet.

This program will advance the targets from Phase V (*Target Drill Test*) to Phase VII (*Deposit Delineation Drilling*). Delineation drilling is not budgeted for in 1995. A request for funds to conduct a delineation drilling program will be submitted for 1996; the scope of which will be determined by the results of this program.

Existing Situation

Previous drilling by Lac Minerals from 1989 to 1992 penetrated ore-grade gold-silver mineralization in several holes located 100 to 800 feet to the east and southeast of the East and South Zone ore bodies (Table 2). To date, the lack of drill-density and apparent continuity preclude these drill-intercepts from being

included in the Rosebud Project mineral inventory.

The intercepts occur at drill depths of 90 to 850 feet and define 4 northwest-trending zones 50 to 200 feet wide. The inferred strike length of the zones range from 400 to 600 feet, and are open-ended to the northwest and southeast. Mineralization occurs along high-angle "feeder" structures and "bleeds" outward into 3 favorable stratigraphic-tectonic horizons; resulting in vertically-stacked and possibly interconnected strata-bound mineralized lenses.

Mineralization is hosted by fractured and argillized Chocolate Tuff (Ct) and brecciated and silicified Dozer Tuff (Dt) in the hanging wall and footwall, respectively, of the South Ridge Fault. The majority of drill-intercepts generated by Lac were the result of reverse-circulation drilling, which provides insufficient information to determine the true thickness, dip-angle, average grade, and style of mineralization.

#### Proposed Project

Funds are requested to conduct a diamond drilling program on extensions of the East and South Zone ore bodies. The proposed program consists of 14 core holes totalling 10,000 feet, with an average drill depth of roughly 650 feet. Targeted mineralization occurs at depths ranging from shallow to deep (90 to 1,000 feet). Holes will be cored from collar to total depth (TD) and will be drilled vertical in order to test both high-angle and vertically-stacked low-angle targets.

The proposed exploration is within the permit boundaries for current operations, but will require annual surface-disturbance permitting and filing of a notice of intent.

Assuming project approval, drilling can commence 10 July and be completed 30 September. To complete 10,000 feet of diamond drilling within this time schedule two rigs will be required for the entire program (assuming a 10-and-4 work schedule and 80 feet/ day/ rig). Results of the 1995 exploration program and recommendations for future work will be documented in a year-end summary report.

Estimated cost of the proposed drilling program is \$358,600. Table 1 details the estimated project costs (including a 10% contingency).

#### Factors Affecting the Project

Previous drilling in the target area generated significant ore-grade drill intercepts that at first inspection appear to have little continuity. However, re-interpretation of the geology suggests that the mineralization is concentrated within 3

favorable stratigraphic-tectonic horizons and localized along 4 northwest-trending, high-angle structures.

The proposed program is necessary to advance the target and to demonstrate a drill-inferred resource. The program is sufficient in scope to drill-test the targets and will result in target advancement to the delineation drilling phase or target condemnation.

#### Alternatives Considered

Although quicker and less expensive to complete, reverse circulation drilling was rejected as an alternative to a diamond drilling program. The following reasons contributed to the decision: 1.) the relatively narrow and vertically-stacked targets are difficult to consistently penetrate with RC drilling because of hole deviation, particularly if the hole deviates in the near surface, 2.) core drilling is required to determine whether encountered mineralization is localized along high-angle structures (which may be penetrated at any depth) or along low-angle structures that are projected at shallow depths (90 to 300 feet), moderate depths (400 to 650 feet), and deep (700 to 1,000 feet), and 3.) diamond drilling was selected to better characterize the nature of the mineralization (true thickness, grade, alteration and mineral assemblages, etc.).

Vertical drill holes were selected over angle holes to maximize penetration rate, minimize hole deviation, minimize the number of drill holes, total drill footage, and site preparation/reclamation and surface disturbance.

Table 1.

#### Project Costs - Proximal Target Exploration

Core drilling	10,000 ft. @ 25.50/ft.	\$255,000	
Mob/Demob.		5,000	
Site Prep/Reclam.	14 sites @ \$300/site	5,400	
Analytical			
Geochem	2,000 samples @ \$12.50/ea.	25,000	
Fire Assay	1,200 samples @ \$20.50/ea.	24,600	
Equipment & Supplies			
(Sample bags, core splitter, photo supplies)		6,000	
Core splitter (laborer)		5,000	
	Subtotal	\$326,000	
261,357	drilling	+ 10% Contingency	32,600
5,000	mob/durb		
2,700	A firm prep	TOTAL	\$358,600
5,000	core splitter		
274,057	Total + config.		

TABLE 2.

PROXIMAL TARGET DRILL-INTERCEPTS

Hole ID.	From	To	Drill Thickness	Gold (opt)	Silver (opt)	Strat. Unit
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FAR EAST TARGET - HANGING WALL OF THE SOUTH RIDGE FAULT

RL220	250'	270'	20'	0.740	8.96	Ct
RL258	240'	245'	5'	0.165	1.75	Ct
RL266	160'	180'	20'	0.321	31.97	Ct
RL270C	258'	263'	5'	0.595	4.61	Ct
RL273	100'	115'	15'	0.224	1.36	Ct
	280'	285'	5'	0.375	1.58	Ct
RL278	330'	335'	5'	0.258	9.78	Ct

FAR EAST TARGET - SOUTH RIDGE FAULT & FOOTWALL

RL273	490'	700'	210'	0.105	0.46	Dt
RL217	645'	650'	5'	0.125	0.34	Dt
	660'	675'	15'	0.156	0.45	Dt
	725'	745'	20'	0.560	0.92	Dt
	785'	810'	25'	0.165	19.95	Dt
RL213	765'	780'	15'	0.252	2.72	Dt
RL214	835'	850'	15'	0.329	0.33	Dt
RL259	680'	720'	40'	0.040	2.10	Dt
	780'	785'	5'	0.113	0.32	Dt

SOUTH EAST TARGET

RL282	345'	350'	5'	0.103	0.11	Dt
RL8	460'	465'	5'	0.123	1.36	Dt
RL257	440'	450'	10'	0.254	2.13	Dt
RL272	360'	380'	20'	0.283	0.53	Dt
RL37	460'	465'	5'	0.100	0.57	Dt

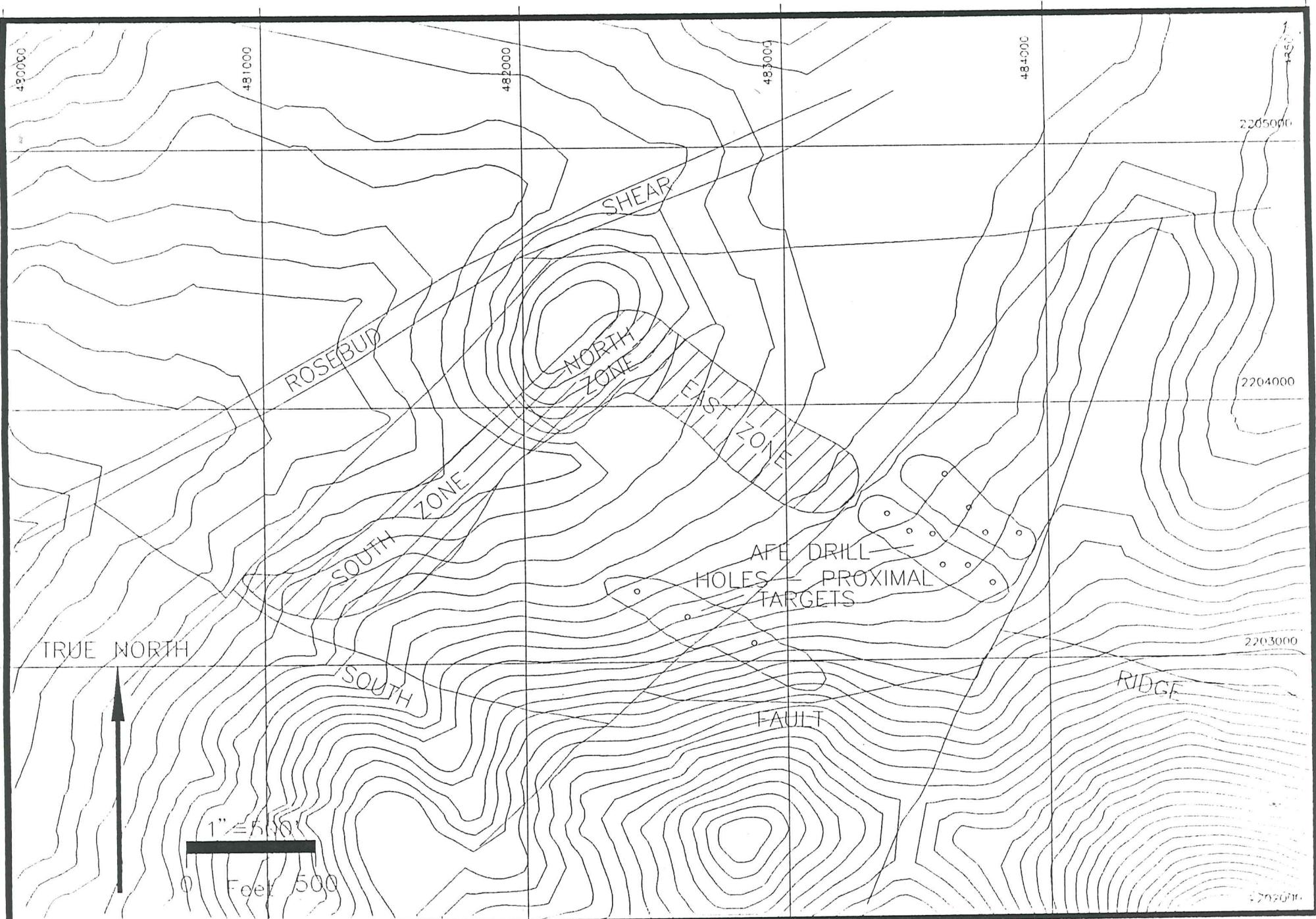


FIGURE 1. LOCATION MAP OF ROSEBUD DEPOSIT, AND PROXIMAL TARGET AREAS, AND PROPOSED AFE (CONFIRMATION) DRILLHOLES.

**CORE DRILLING PROPOSAL****DRILLING PROPOSAL NO. 7-12****CONTRACT NO.**

This agreement is made and entered into this 14TH day of July, 1995 by and between  
P C EXPLORATION, INC. A DIVISION OF PC EXPLORATION (hereinafter called CONTRACTOR)  
AND Hecla Mining Company (hereinafter called COMPANY)

In considerations of the mutual promises, payments and agreements herein contained and other  
valuable consideration, the parties hereto agree as follows:

**I. GENERAL INFORMATION**

- A. Project name: Rosebud
- B. Location: Pershing County, Nevada
- C. Hole Depth: 350 feet to 1100 feet, average 650 feet
- D. Hole Diameter NQ - Vertical/sdme angle
- E. Quantity of Work Minimum 10,000 feet, possible + 10,000 feet
- F. Commencement: August 1, 1995

**II. SCHEDULE OF RATE****A. Mobilization and Demobilization**

- 1) Total cost of mobilization will be accomplished for the lump sum of \$1500.00 per drill unit requested.  
(This cost will be invoiced with the first drilling invoice).
- 2) The term "Mobilization and Demobilization" shall apply to the time consumed, prior to starting and upon completion of a job, on paved and/or improved access roads. Time consumed on unimproved roads or rough terrain shall be charged at \$90.00 per hour.
- 3) Demobilization: \$500.00 PER DRILL UNIT

## DRILLING PROPOSAL NO.7-12

**B. Drilling Rates, Footage Rate Basis**

- 1) Footage rates include bits, core barrels, and rods unless otherwise specified below:

	0-500'	500-1000'	1000-1100'
Vertical NQ	\$18.50	\$19.50	\$20.50
Angle NQ	\$20.00	\$21.00	\$23.00
Vertical NQ2 (2" core)	\$20.00	\$21.00	\$22.00
Angle NQ2 (2" core)	\$21.50	\$22.50	\$24.50
HQ Vertical	\$21.00	\$22.00	
HQ Angle	\$22.50	\$23.50	

**C. Hourly Rates:**

1) Standby Rate w/ crew:	\$95.00
2) Moving, tear down, set up: (including first and last hole)	\$95.00
3) Cementing Rate:	\$95.00
4) Waiting on cement Rate:	\$95.00
5) Drilling Out Cement Rate:	\$95.00
6) Casing Setting Rate:	\$95.00
7) Surveying Time Rate:	\$95.00
8) Casing Pulling Rate:	\$95.00
9) Reaming Rate plus bits:	\$95.00
10) Lost Circulation Rate:	\$95.00
11) Hole Stabilizing Rate:	\$95.00
12) Hole Abandonment Rate:	\$95.00
13) Re-Entry Rate: (of previously drilled holes)	\$95.00
14) Wedging Rate: (plus wedge & wedge bits)	\$95.00

## DRILLING PROPOSAL NO. 7-12

**D. Time and Equipment Charges**

- 1) If a third-party survey instrument or a third-party drilling device is required, CONTRACTOR will secure same

and invoice the COMPANY at list price plus 15% plus freight.

- 2) Water truck will be invoiced at \$175.00 per day for each 2000 gallon water truck. If the helper can function as a driver in addition to his other duties without causing operational delay. Operational delay will be invoiced at the rate in C (1).
  - 2.a) If a full time driver is required, his services will be invoiced at \$30.00 per hour worked. Laying/removing water lines, station pumps, etc. \$30.00 per man hour.
  - 2.b) If a third-party hauler is utilized, all costs will be invoiced to the COMPANY at cost plus 15%.
- 3) Subsistence in the amount of \$50.00 per day per man will be invoiced to the COMPANY.

#### **E. Materials**

- 1) Core boxes, cement, drilling mud, mud additives, lost circulation materials consumed, casing shoes damaged or left in the hole, and the material and necessary items for installation and maintenance of water lines will be invoiced at list price plus 15%, plus freight.
- 2) All diamond bit charges in excess of \$3.00 per foot will be invoiced to the COMPANY.
- 3) Drill rods, down hole tools, casing lost due to bad ground or at COMPANY'S request, will be invoiced at 85% of list price F.O.B. job site.

#### **F. Equipment and Working Schedule**

- 1) CONTRACTOR will endeavor to assign the following equipment

Drill Rigs: LY-38 or equal

Pumps: Bean FMC 35

Vehicles: As required

Wireline rods and core barrels, casing, bits, hand tools, and accessories as are required.

**DRILLING PROPOSAL NO. 7-12**

- 2) CONTRACTOR will endeavor to assign the crews to this project and operate the above listed equipment 20 hours per day, per rig, until the project is completed.

**III. COMPANY AGREES TO PROVIDE:**

- A. The right of ingress and egress for all drill locations.
- B. Access roads, clearing of drill sites suitable for truck-mounted equipment, and any towing which may be required.

**IV. GENERAL TERMS:**

- A. Commencement of this drilling program is subject to the availability of the equipment contemplated for this drilling and satisfactory credit arrangements.
- B. CONTRACTOR will complete a daily drill report summarizing each day's activities. COMPANY'S and CONTRACTOR'S representatives at the drill site will agree to the quantities shown on this report on a daily basis. The billing for services rendered will be based on the quantities shown on the daily drill log.
- C. CONTRACTOR will provide an invoice for services rendered by the tenth of the month following the period of work and/or at the conclusion of the total job, and the invoice will be due upon receipt. Invoices unpaid 30 days after date of invoice will be subject to a delinquency charge of 1-3/4 percent per month (equals 21 percent per annum).
- D. This agreement is based on wage scales and benefits which meet all minimum wage law requirements. Should project specification or job location dictate any other minimums, or use of union labor, CONTRACTOR reserves the right to re-negotiate this agreement.
- E. CONTRACTOR shall not be liable for any delays or damage caused by acts of GOD, strikes, or any order of court of competent jurisdiction prohibiting, directly or indirectly, CONTRACTOR in whole or in part, from performing its contractual obligations; any delays due to the above causes shall not be deemed to be a breach or failure to perform this agreement or any part thereof.
- F. Should CONTRACTOR not be able to complete this assignment on a continuous basis, the applicable standby rate will apply for the duration of the interruption.
- G. All material and/or supplies furnished by CONTRACTOR under this agreement, and which are not individually priced herein, will be charged to COMPANY at CONTRACTOR's invoice cost, including freight, plus 15% handling fee.

**DRILLING PROPOSAL NO. 7-12**

- H. CONTRACTOR will pay for, and keep in force, the following insurance:

Workmen's Compensation Insurance Coverage at statutory limits, as prescribed by applicable law.

Comprehensive General Liability Insurance Coverage of not less than \$5,000,000 inclusive, Automobile Liability Insurance Coverage of not less than \$1,000,000 inclusive

- I. CONTRACTOR will indemnify, hold harmless, and defend COMPANY from and against all damages, losses, expenses (including reasonable attorney's fees), and liabilities arising out of claims, suits or judgments for damage to or loss of property or for injury to or death of any person or persons caused by the sole negligence or willful misconduct of CONTRACTOR, its employees, and representatives.

- J. COMPANY will indemnify, hold harmless, and defend CONTRACTOR from and against all damages, losses, expenses (including reasonable attorney's fees), and liabilities arising out of claims, suits, or judgments for damage to or loss of property or for injury to or death of any person or persons caused by the sole negligence or willful misconduct of COMPANY, its employees, and representatives.

- K. CONTRACTOR and its employees will consider this project as confidential and will not disclose any information or show any samples concerning this project to unauthorized third parties without prior written consent.

- L. This agreement will become effective on the date first above written herein and will continue in effect until the total job is completed in quantities and as to schedule as specified.

V. **EXPLANATION OF CHARGEABLE ITEMS:**

A. **Hourly Rates:**

An hourly rate will apply to all job hours commencing with the start of each shift in the field and ending with the completion of each shift in the field, with the exception of hours consumed while drilling at the straight footage option. No hourly charge will apply to down time that results from CONTRACTOR equipment breakdown.

B. **Standby Rate:**

Standby time shall be any interruption in the operation which is not directly caused by a failure of the CONTRACTOR equipment. It shall specifically apply to all time that operations are suspended awaiting water for drilling purposes, or directed or caused by COMPANY or their representatives, clients or other sub contractors.

## DRILLING PROPOSAL NO. 7-12

C. Mobilization and Demobilization

Unless otherwise stated, mobilization and demobilization rates will always be calculated to and from our offices in Centerville, Utah to the drill site at the beginning and completion of a drilling contract.

D. Privilege Taxes

In those states and/or local government entities which require CONTRACTOR to pay a percentage of gross contracting revenue as a privilege (sales) tax, such tax will be passed on to the COMPANY as a separate item on the regular invoicing.

## NOTE:

Prices quoted in this contract will be honored only until August 1, 1995. The CONTRACTOR reserves the right to change any prices after that date.

In Witness whereof the parties hereto have caused this agreement to be executed as of the date and year first above written on the title page.

BY: \_\_\_\_\_

BY: L.R. Fleming

TITLE: \_\_\_\_\_

TITLE: Regional Manager

COMPANY: \_\_\_\_\_

P C EXPLORATION, INC.

Marsh & McLennan, Incorporated  
 Three Embarcadero Center  
 Post Office Box 193880  
 San Francisco, CA 94119-3880  
 Telephone: (415) 393-5000

**MARSH &  
 MCLENNAN**

## Facsimile Transmittal Sheet

<u>Department</u>	<u>Fax Numbers</u>	<u>Department</u>	<u>Fax Numbers</u>
<input type="checkbox"/> MMI-Main Fax No.	(415) 393-5409	<input type="checkbox"/> MMI Executive Office	(415) 393-8077
<input type="checkbox"/> Bonds	(415) 393-4889	<input type="checkbox"/> MM PC	(415) 393-4810
<input type="checkbox"/> Casualty	(415) 393-5128	<input type="checkbox"/> National Broking Division	(415) 393-5122
<input type="checkbox"/> Financial Center	(415) 393-5319	<input type="checkbox"/> National Broking Executive Office	(415) 393-6301
<input type="checkbox"/> Insurance Brokerage	(415) 393-5137	<input type="checkbox"/> Planning & Technology	(415) 392-4937
<input type="checkbox"/> Mail & Supply	(415) 393-4835	<input type="checkbox"/> Property	(415) 393-4816
<input type="checkbox"/> Marine	(415) 393-8198	<input type="checkbox"/> Seabury & Smith	(415) 393-8010

<b>DATE</b>	August 2, 1995	
<b>TO:</b>	Individual Charlie Muerhoff	Company Hecla Mining Company
	Location Lovelock, NV	Faximile Telephone No. 702/427-7781
<b>FROM</b>	Individual Dana Rich	Telephone Extension (415) 393-8121
<b>COPY</b>	Individual	Copy Info
<b>RE:</b>	Subject <b>CERTIFICATE OF INSURANCE</b>	

Total Pages: 3 including this cover page. Time Sent: \_\_\_\_\_

Please call me promptly if you do not receive the number of pages indicated above.

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**ACORD. CERTIFICATE OF INSURANCE**

133698

ISSUE DATE (MM/DD/YY)

8/01/95

## PRODUCER

Marsh & McLennan, Incorporated  
 Three Embarcadero Center  
 P. O. Box 193880  
 San Francisco, CA 94119-3880  
 Matthew D. Anacker

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERNS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

**COMPANIES AFFORDING COVERAGE**

COMPANY LETTER **A** AMERICAN HOME ASSURANCE CO

COMPANY LETTER **B** INDUSTRIAL INDEMNITY CO

COMPANY LETTER **C**

COMPANY LETTER **D**

COMPANY LETTER **E**

## INSURED

**PC Exploration, Inc.**  
 1780 Vernon St., Suite #3  
 Roseville, CA 95678

## COVERS

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS
<b>A</b>	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input checked="" type="checkbox"/> CLAIM MADE <input checked="" type="checkbox"/> OCCUR. OWNER'S & CONTRACTOR'S PROT. <input checked="" type="checkbox"/> X-C-U	<b>GL5438890</b>	<b>4/01/95</b>	<b>4/01/96</b>	GENERAL AGGREGATE \$ 2000000 PRODUCTS-COMP/OP AGG. \$ 2000000 PERSONAL & ADV. INJURY \$ 1000000 EACH OCCURRENCE \$ 1000000 FIRE DAMAGE (Any one fire) \$ 50000 MED. EXPENSE (Any one person) \$ 5000
<b>A</b>	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS GARAGE LIABILITY	<b>CA5439048</b>	<b>4/01/95</b>	<b>4/01/96</b>	COMBINED SINGLE LIMIT \$ 1000000 BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE
	EXCESS LIABILITY <input checked="" type="checkbox"/> UMBRELLA FORM <input checked="" type="checkbox"/> OTHER THAN UMBRELLA FORM				EACH OCCURRENCE \$ AGGREGATE \$
<b>B</b>	WORKER'S COMPENSATION AND EMPLOYERS' LIABILITY.	<b>CB9610783</b>	<b>4/01/95</b>	<b>4/01/96</b>	<input checked="" type="checkbox"/> STATUTORY LIMITS EACH ACCIDENT \$ 1000000 DISBURSE-POLICY LIMIT \$ 1000000 DISBURSE-EACH EMPLOYEE \$ 1000000
	OTHER				

## DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

(SEE REVERSE AND/OR ATTACHED)

## CERTIFICATE HOLDER

Necla Mining Company  
 Attn: Charlie Muerhoff  
 7000 Pitt Road  
 P.O. Box: 1861  
 Lovelock, NV 89419

## CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

## DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

CERTIFICATE #33698 (CONTINUED)

INSURED : PC Exploration, Inc.

HOLDER : Hecla Mining Company  
Attn: Charlie Muerhoff  
7000 Pitt Road  
P.O. Box 1861  
Lovelock, NV 89419

Job No.: 329024

The Certificate Holder is included as an Additional Insured, but only as respects their interest in the operations of the Named Insured and the above mentioned project.

**HECLA MINING COMPANY  
ROSEBUD PROJECT**

7000 Pitt Road  
P.O. Box 1861  
Lovelock, NV 89419  
(702) 427-7751 fax (702) 427-7781

**FACSIMILE COVER SHEET**

Date: July 26, 1995

To: Nat Adams  
c/o Susan Atkins  
Hecla Mining Company  
fax (208) 769-4159

From: Charlie Muerhoff

Number of pages (including this cover sheet): 8

Nat,

As per our telephone conversation today, please prepare a drilling contract based on the attached bid document. The only change to the contract I would like you to make is the start date. The bid document states a commencement date of August 1, 1995. Please change this to read something like: the commencement date for the first drill rig is August 8, 1995 and the commencement date for the second drill rig is August 14, 1995.

The letterhead on the faxed bid document is a little fuzzy. In case you can't read it, the address for PC Exploration is:

1125 West 650 North  
Centerville, Utah 84014

mailing address: P.O. Box 870096  
Woods Cross, Utah 84087-0096

I know this is short notice, I appreciate you getting this back to me as soon as possible.

Thanks.

*Charlie*

ROSEBUD PROJECT  
HECLA MINING COMPANY

Post-it™ Fax Note	7671	Date	4/14/95	# of pages ▶	3
To	R Tschauder	From	C.B. Wineteer		
Co./Dept.		Co.			
Phone #		Phone #			

Fax # 208 769-4122 Fax #

1995 EXPLORATION - PROPOSED PROXIMAL TARGET DRILL HOLES

Hole ID	Incl	Bearing	Depth	Target	Section(s)	Projected Depth & Target Type
95-341	-90	NA	500'	SET	750NE/1200NW	380-450' SRF & Dt in FW
95-342	-90	NA	450'	SET	800NE/1000NW	350-400' SRF & Dt in FW
95-343	-90	NA	450'	SET	800NE/900NW	290-380' SRF & Dt in FW
95-344	-90	NA	600'	FET	1700NE/600NW	25-100' Bdd-plane low < Stx in Ct
						300-400' High < Stx in Ct
						500-600' SRF & Dt in FW
95-345	-90	NA	600'	FET	1700NE/500NW	100-200' Bdd-plane low < Stx in Ct
						400-500' High < Stx in Ct
						500-600' SRF & Dt in FW
95-346	-90	NA	1100'	FET	1750NE/500NW	450-650' SRF & Dt in FW
						800-900' Low < Stx in Dt
						1000-1100' High/ low < Stxs in Tbcs
95-347	-90	NA	600'	FET	1650NE/400NW	150-250' Bdd-plane low < Stx in Ct
						250-350' High < Stx in Ct
						400-500' SRF & Dt in FW
						500-600' High < Stx in Dt

<u>Hole ID</u>	<u>Incl</u>	<u>Bearing</u>	<u>Depth</u>	<u>Target</u>	<u>Section(s)</u>	<u>Projected Depth &amp; Target Type</u>
95-348	-90	NA	500'	FET	1700NE/300NW	200-270' Bdd-plane low < Stx in Ct 400-500' SRF & Dt in FW
95-349	-90	NA	1050'	FET	1650NE/200NW	250-350' Bdd-plane low < Stx in Ct 400-500' SRF & Dt in FW 800-900' Low < Stx in Dt 1000-1050' High/ low < Stxs in TbcS
95-350	-90	NA	500'	FET	1700NE/100NW	250-350' Bdd-plane low < Stx in Ct 400-500' SRF & Dt in FW
95-351	-90	NA	900'	FET	1850NE/300NW	50-200' High < Stx in Ct 550-650' SRF & Dt in FW 650-900' Low/ high < Stxs in Dt
95-352	-90	NA	900'	FET	1950NE/200NW	25-100' High < Stx in Ct 550-650' SRF & Dt in FW 650-900' Low/high < Stxs in Dt
95-353	-90	NA	950'	FET	2000NE/400NW	700-850' SRF & Dt in FW 850-950' Low/ high < Stxs in Dt
95-354	-90	NA	900'	FET	2050NE/500NW	750-825' SRF & Dt in FW 825-900' Low/ high < Stxs in Dt

**Notes:**

Ct Chocolate Tuff

Dt Dozer Tuff

Tbcs Tertiary Basal Carbonaceous Sediments

SRF South Ridge Fault

Stx Structure

< Angle

SET South East Target

FET Far East Target

NA Not Applicable

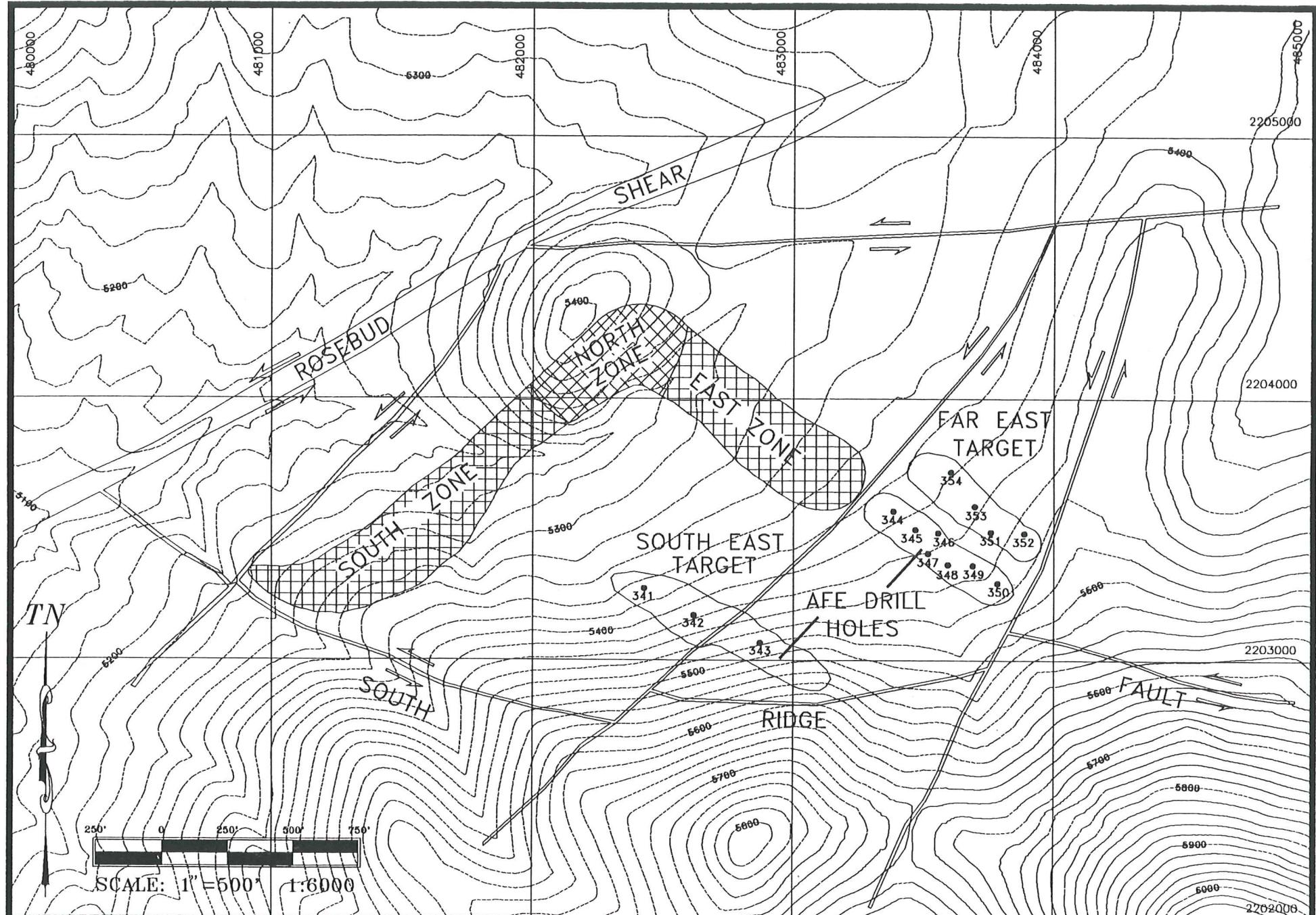


FIGURE 1. LOCATION MAP OF ROSEBUD DEPOSIT, PROXIMAL TARGET AREAS, AND PROPOSED AFE (CONFIRMATION) DRILL HOLES (95-341 to 95-354).

6-13-95 ms

## AUTHORITY FOR EXPENDITURE

DEPARTMENT NO.	DEPARTMENT: ROSEBUD PROJECT EXPLORATION	LOCATION: PERSHING COUNTY, NEVADA	DATE: June 6, 1995
PURPOSE :			BUDGETED
PROGRAMMED EXPANSION, COST REDUCTION, & OPTIONAL REPLACEMENTS AND ADDITIONS SUBJECT TO MINIMUM RETURN ON INVESTMENT			X YES NO
X NECESSARY REPLACEMENTS, AND "OTHER" EXPENDITURES NOT SUBJECT TO RETURN ON INVESTMENT			
RETURN ON INVESTMENT	REQUIRED % N/A	% THIS PROPOSAL N/A	CALCULATED BY CBW
			AMOUNT REQUESTED (TOTAL COST) \$358,600

## EXPENDITURE DESCRIPTION:

Funds are requested from the expensed exploration budget to conduct a drilling program on extensions of the Rosebud Deposit. The program will drill-test proximal targets located south and southeast of the current reserves and will consist of 10,000 feet of diamond drilling in a total of 14 holes. This exploration has the potential to discover 150 to 300 thousand tons at grades similar to the known resource and to add 50 to 100 thousand ounces of gold to the drill-inferred resource. The program is necessary to meet project goals and is discussed in detail in the attached proposal.

CHARGE	COST CENTER		ACCOUNT			CAP. BUDG. CATG.	AUTHORITY	ADDITIONAL INFORMATION
	GRP	NUMBER	G/L	DETAIL	SUB- DETAIL			
EXPENSE								
CAPITAL								
ESTIMATED BY: Contractor Bid	AFE MADE BY:	CHECKED BY: <i>Charles Marshall</i>			MATERIAL TRANSFERRED			
APPROVED BY:				CASH OUTLAY \$326,000				
APPROVED BY:				CONTINGENCIES \$ 32,600				
APPROVED BY:				TOTAL COST \$358,600				
APPROVED BY:				SALVAGE (PRES.VALUE)				
VICE PRESIDENT:				CHARGEABLE TO OTHERS				
CONTROLLER:				NET COST \$				
					DATE APPROVED:			

HECLA MINING COMPANY  
ROSEBUD PROJECT

June 6, 1995

Memo to: Ron Clayton

From: Craig B. Wineteer *(CBW)*

Subject: Surface drilling program on extensions of the Rosebud Deposit; proximal target exploration.

**Summary**

Funds are requested for a surface drilling program at Hecla Mining Company's Rosebud Project, Pershing County, Nevada. This is budgeted exploration with the objective to confirm ore-grade extensions of the Rosebud Deposit and to add a minimum of 50,000 ounces of gold to the drill-inferred resource. The proposed program will drill-test proximal targets that have the potential to add 1/2 to 1 year of production to the mine life of the Rosebud Deposit. Total expenditures for the drilling program are \$358,600 (Table 1).

Upon approval, the program will be implemented immediately and must be completed by 30 September, 1995. Compilation and interpretation of the geologic and analytical results will be completed by 20 October, 1995. An inferred resource document will be completed on 31 October, 1995.

The proposed program will test proximal target areas located to the east and southeast of the East and South Zone ore bodies (Figure 1). The program consists of 10,000 feet of diamond drilling in a total of 14 holes. Drill holes range in depth from 350 to 1,100 feet, with an average depth of roughly 650 feet. Holes are designed to result in intercept drill-spacing of  $\pm$  75 feet.

This program will advance the targets from Phase V (*Target Drill Test*) to Phase VII (*Deposit Delineation Drilling*). Delineation drilling is not budgeted for in 1995. A request for funds to conduct a delineation drilling program will be submitted for 1996; the scope of which will be determined by the results of this program.

**Existing Situation**

Previous drilling by Lac Minerals from 1989 to 1992 penetrated ore-grade gold-silver mineralization in several holes located 100 to 800 feet to the east and southeast of the East and South Zone ore bodies (Table 2). To date, the lack of drill-density and apparent continuity preclude these drill-intercepts from being

included in the Rosebud Project mineral inventory.

The intercepts occur at drill depths of 90 to 850 feet and define 4 northwest-trending zones 50 to 200 feet wide. The inferred strike length of the zones range from 400 to 600 feet, and are open-ended to the northwest and southeast. Mineralization occurs along high-angle "feeder" structures and "bleeds" outward into 3 favorable stratigraphic-tectonic horizons; resulting in vertically-stacked and possibly interconnected strata-bound mineralized lenses.

Mineralization is hosted by fractured and argillized Chocolate Tuff (Ct) and brecciated and silicified Dozer Tuff (Dt) in the hanging wall and footwall, respectively, of the South Ridge Fault. The majority of drill-intercepts generated by Lac were the result of reverse-circulation drilling, which provides insufficient information to determine the true thickness, dip-angle, average grade, and style of mineralization.

#### Proposed Project

Funds are requested to conduct a diamond drilling program on extensions of the East and South Zone ore bodies. The proposed program consists of 14 core holes totalling 10,000 feet, with an average drill depth of roughly 650 feet. Targeted mineralization occurs at depths ranging from shallow to deep (90 to 1,000 feet). Holes will be cored from collar to total depth (TD) and will be drilled vertical in order to test both high-angle and vertically-stacked low-angle targets.

The proposed exploration is within the permit boundaries for current operations, but will require annual surface-disturbance permitting and filing of a notice of intent.

Assuming project approval, drilling can commence 10 July and be completed 30 September. To complete 10,000 feet of diamond drilling within this time schedule two rigs will be required for the entire program (assuming a 10-and-4 work schedule and 80 feet/ day/ rig). Results of the 1995 exploration program and recommendations for future work will be documented in a year-end summary report.

Estimated cost of the proposed drilling program is \$358,600. Table 1 details the estimated project costs (including a 10% contingency).

#### Factors Affecting the Project

Previous drilling in the target area generated significant ore-grade drill intercepts that at first inspection appear to have little continuity. However, re-interpretation of the geology suggests that the mineralization is concentrated within 3

favorable stratigraphic-tectonic horizons and localized along 4 northwest-trending, high-angle structures.

The proposed program is necessary to advance the target and to demonstrate a drill-inferred resource. The program is sufficient in scope to drill-test the targets and will result in target advancement to the delineation drilling phase or target condemnation.

#### Alternatives Considered

Although quicker and less expensive to complete, reverse circulation drilling was rejected as an alternative to a diamond drilling program. The following reasons contributed to the decision: 1.) the relatively narrow and vertically-stacked targets are difficult to consistently penetrate with RC drilling because of hole deviation, particularly if the hole deviates in the near surface, 2.) core drilling is required to determine whether encountered mineralization is localized along high-angle structures (which may be penetrated at any depth) or along low-angle structures that are projected at shallow depths (90 to 300 feet), moderate depths (400 to 650 feet), and deep (700 to 1,000 feet), and 3.) diamond drilling was selected to better characterize the nature of the mineralization (true thickness, grade, alteration and mineral assemblages, etc.).

Vertical drill holes were selected over angle holes to maximize penetration rate, minimize hole deviation, minimize the number of drill holes, total drill footage, and site preparation/reclamation and surface disturbance.

Table 1.

#### Project Costs - Proximal Target Exploration

Core drilling	10,000 ft. @ 25.50/ft.	\$255,000
Mob/Demob.		5,000
Site Prep/Reclam.	14 sites @ \$300/site	5,400
Analytical		
Geochem	2,000 samples @ \$12.50/ea.	25,000
Fire Assay	1,200 samples @ \$20.50/ea.	24,600
Equipment & Supplies		
(Sample bags, core splitter, photo supplies)		6,000
Core splitter (laborer)		5,000
	Subtotal	\$326,000
	+ 10% Contingency	32,600
	<b>TOTAL</b>	<b>\$358,600</b>

TABLE 2.

PROXIMAL TARGET DRILL-INTERCEPTS

Hole ID.	From	To	Drill Thickness	Gold (opt)	Silver (opt)	Strat. Unit
----------	------	----	-----------------	------------	--------------	-------------

**FAR EAST TARGET - HANGING WALL OF THE SOUTH RIDGE FAULT**

RL220	250'	270'	20'	0.740	8.96	Ct
RL258	240'	245'	5'	0.165	1.75	Ct
RL266	160'	180'	20'	0.321	31.97	Ct
RL270C	258'	263'	5'	0.595	4.61	Ct
RL273	100'	115'	15'	0.224	1.36	Ct
	280'	285'	5'	0.375	1.58	Ct
RL278	330'	335'	5'	0.258	9.78	Ct

**FAR EAST TARGET - SOUTH RIDGE FAULT & FOOTWALL**

RL273	490'	700'	210'	0.105	0.46	Dt
RL217	645'	650'	5'	0.125	0.34	Dt
	660'	675'	15'	0.156	0.45	Dt
	725'	745'	20'	0.560	0.92	Dt
	785'	810'	25'	0.165	19.95	Dt
RL213	765'	780'	15'	0.252	2.72	Dt
RL214	835'	850'	15'	0.329	0.33	Dt
RL259	680'	720'	40'	0.040	2.10	Dt
	780'	785'	5'	0.113	0.32	Dt

**SOUTH EAST TARGET**

RL282	345'	350'	5'	0.103	0.11	Dt
RL8	460'	465'	5'	0.123	1.36	Dt
RL257	440'	450'	10'	0.254	2.13	Dt
RL272	360'	380'	20'	0.283	0.53	Dt
RL37	460'	465'	5'	0.100	0.57	Dt

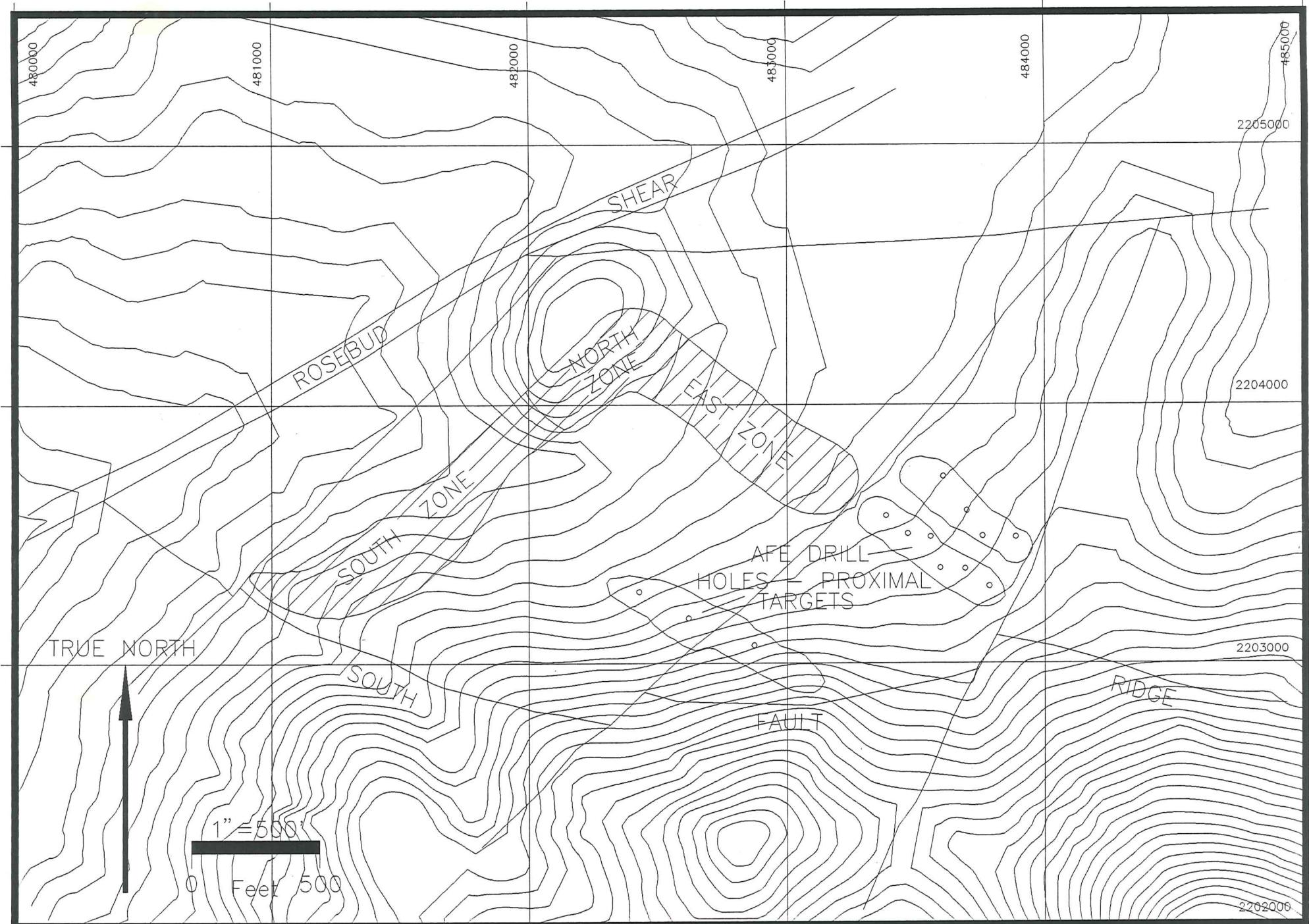


FIGURE 1. LOCATION MAP OF ROSEBUD DEPOSIT, AND PROXIMAL TARGET AREAS, AND PROPOSED AFC (CONFIRMATION) DRILLHOLES.



ENGINEERING SERVICES  
ENVIRONMENTAL SERVICES  
OPERATIONS and  
GEOLOGY

Fax: (208) 769-4122

Date: \_\_\_\_\_

To: Clarie

From: Rick

Hecla Mining Company

Transmitting: 2 Pages  
(Including Cover)

Operator: \_\_\_\_\_

Now find some Au!  
Say hi to Ron "Pete Rose" Clapton  
for me



## AUTHORITY FOR EXPENDITURE

DEPARTMENT NO.	DEPARTMENT: ROSEBUD PROJECT EXPLORATION	LOCATION: PERSHING COUNTY, NEVADA	DATE: June 6, 1995	
PURPOSE :			BUDGETED	
PROGRAMMED EXPANSION, COST REDUCTION, & OPTIONAL REPLACEMENTS AND ADDITIONS SUBJECT TO MINIMUM RETURN ON INVESTMENT			X YES	NO
X NECESSARY REPLACEMENTS, AND "OTHER" EXPENDITURES NOT SUBJECT TO RETURN ON INVESTMENT				
RETURN ON INVESTMENT	REQUIRED % N/A	% THIS PROPOSAL N/A	CALCULATED BY CBW	AMOUNT REQUESTED (TOTAL COST) \$358,600

## EXPENDITURE DESCRIPTION:

Funds are requested from the expensed exploration budget to conduct a drilling program on extensions of the Rosebud Deposit. The program will drill-test proximal targets located south and southeast of the current reserves and will consist of 10,000 feet of diamond drilling in a total of 14 holes. This exploration has the potential to discover 150 to 300 thousand tons at grades similar to the known resource and to add 50 to 100 thousand ounces of gold to the drill-inferred resource. The program is necessary to meet project goals and is discussed in detail in the attached proposal.

CHARGE	COST CENTER		ACCOUNT			CAP. BUDG. CATG.	AUTHORITY	ADDITIONAL INFORMATION
	GRP	NUMBER	G/L	DETAIL	SUB- DETAIL			
EXPENSE								
CAPITAL								
ESTIMATED BY: Contractor Bid	AFE MADE BY:	CHECKED BY:			MATERIAL TRANSFERRED			
APPROVED BY: <i>Charles V. Marshall</i>					CASH OUTLAY \$326,000			
APPROVED BY: <i>Rick Edwards 6/19/95</i>					CONTINGENCIES \$ 32,600			
APPROVED BY: <i>G.W. Clancy</i>					TOTAL COST \$358,600			
APPROVED BY: <i>Ralph Shoyan</i>					SALVAGE (PRES. VALUE)			
VICE PRESIDENT:					CHARGEABLE TO OTHERS			
					NET COST \$			
CONTROLLER:				DATE APPROVED:				



Larry Fleming, Area Manager      July 6, 1995  
Coates Drilling Inc.  
1125 West 650 North  
Centerville, UT 84014

Dear Larry,

This letter is your invitation to bid on Hecla Mining Company's surface core drilling program at the Rosebud Project, Pershing County, Nevada. The program will consist of the following:

START DATE REQUIRED:	ON OR BEFORE AUGUST 1, 1995
COMPLETION DATE REQUIRED:	SEPTEMBER 30, 1995
CORE SIZE:	NQ or NBDGM THIN-WALL
MINIMUM NUMBER OF CORE HOLES:	14
MINIMUM FOOTAGE:	10,000 FEET GUARANTEED (10,000 additional feet possible).
AVERAGE HOLE DEPTH:	650 FEET
MAXIMUM HOLE DEPTH:	1,100 FEET
MINIMUM HOLE DEPTH:	350 FEET
ORIENTATION:	VERTICAL (some angle holes may be required).
MAXIMUM SURVEY INTERVAL:	100 FEET

Water is available in a pond approximately 6,000 feet from the drill sites. All holes will be surveyed for down-hole deviation and we will provide a Fotobor survey instrument. Ground conditions are generally good with minor areas of lost circulation. You can expect some holes to contain water flows up to 100 gpm. You will be required to abandon all drill holes according to Nevada State regulations. Bids are to be faxed to us at (702) 427-7781 by July 17, 1995 with hard copy via mail. Bids are required to include the following:

- 1) Two (2) surface core rigs.
- 2) Both rigs will drill two shifts per day each.

- 3) Footage rate including bits.
- 4) Quote for each NQ size core and NBDGM thin-wall size core.
- 5) Core boxes and wood blocks.

If you have any questions, please contact Kurt Allen or Charlie Muerhoff at (702) 427-7751.

Best Regards,



Kurt D. Allen  
Mine Geologist  
Hecla Mining Company  
Rosebud Project  
P.O. Box 1861  
Lovelock, NV 89419



Chuck James, President  
Dynamic Drilling  
P.O. Box 450  
Silverton, ID 83867-0450

July 6, 1995

Dear Chuck,

This letter is your invitation to bid on Hecla Mining Company's surface core drilling program at the Rosebud Project, Pershing County, Nevada. The program will consist of the following:

START DATE REQUIRED:	ON OR BEFORE AUGUST 1, 1995
COMPLETION DATE REQUIRED:	SEPTEMBER 30, 1995
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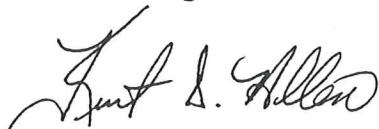
Water is available in a pond approximately 6,000 feet from the drill sites. All holes will be surveyed for down-hole deviation and we will provide a Fotobor survey instrument. Ground conditions are generally good with minor areas of lost circulation. You can expect some holes to contain water flows up to 100 gpm. You will be required to abandon all drill holes according to Nevada State regulations. Bids are to be faxed to us at (702) 427-7781 by July 17, 1995 with hard copy via mail. Bids are required to include the following:

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Best Regards,



Kurt D. Allen  
Mine Geologist  
Hecla Mining Company  
Rosebud Project  
P.O. Box 1861  
Lovelock, NV 89419



Dick Backstrom  
Northwest Drilling  
P.O. Box 3048  
Bozeman MT, 59772-3048

July 6, 1995

Dear Dick,

This letter is your invitation to bid on Hecla Mining Company's surface core drilling program at the Rosebud Project, Pershing County, Nevada. The program will consist of the following:

START DATE REQUIRED:	ON OR BEFORE AUGUST 1, 1995
COMPLETION DATE REQUIRED:	SEPTEMBER 30, 1995
CORE SIZE:	NQ or NBDGM THIN-WALL
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AVERAGE HOLE DEPTH:	650 FEET
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MINIMUM HOLE DEPTH:	350 FEET
ORIENTATION:	VERTICAL (some angle holes may be required).
MAXIMUM SURVEY INTERVAL:	100 FEET

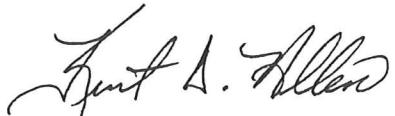
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Best Regards,



Kurt D. Allen  
Mine Geologist  
Hecla Mining Company  
Rosebud Project  
P.O. Box 1861  
Lovelock, NV 89419

## AUTHORITY FOR EXPENDITURE

DEPARTMENT NO.	DEPARTMENT: ROSEBUD PROJECT EXPLORATION	LOCATION: PERSHING COUNTY, NEVADA	DATE: June 6, 1995
PURPOSE :			BUDGETED
PROGRAMMED EXPANSION, COST REDUCTION, & OPTIONAL REPLACEMENTS AND ADDITIONS SUBJECT TO MINIMUM RETURN ON INVESTMENT			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
X NECESSARY REPLACEMENTS, AND "OTHER" EXPENDITURES NOT SUBJECT TO RETURN ON INVESTMENT			
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EXPENSE								
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APPROVED BY:				SALVAGE (PRES. VALUE)				
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CONTROLLER:				DATE APPROVED:				

HECLA MINING COMPANY  
ROSEBUD PROJECT

June 6, 1995

Memo to: Ron Clayton

From: Craig B. Wineteer

Subject: Surface drilling program on extensions of the Rosebud Deposit; proximal target exploration.

Summary

Funds are requested for a surface drilling program at Hecla Mining Company's Rosebud Project, Pershing County, Nevada. This is budgeted exploration with the objective to confirm ore-grade extensions of the Rosebud Deposit and to add a minimum of 50,000 ounces of gold to the drill-inferred resource. The proposed program will drill-test proximal targets that have the potential to add 1/2 to 1 year of production to the mine life of the Rosebud Deposit. Total expenditures for the drilling program are \$358,600 (Table 1).

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Vertical drill holes were selected over angle holes to maximize penetration rate, minimize hole deviation, minimize the number of drill holes, total drill footage, and site preparation/reclamation and surface disturbance.

Table 1.

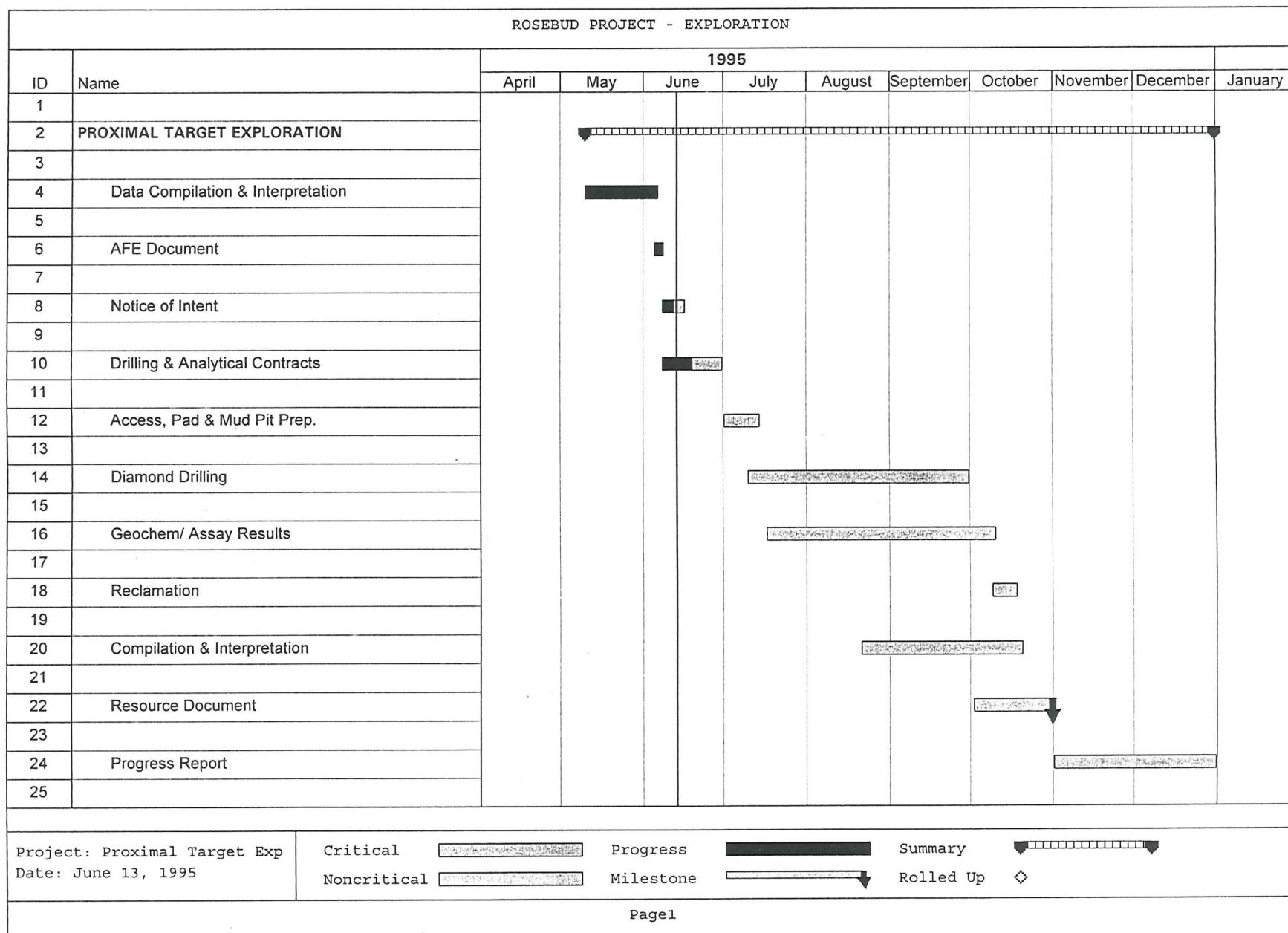
#### Project Costs - Proximal Target Exploration

Core drilling	10,000 ft. @ 25.50/ft.	\$255,000
Mob/Demob.		5,000
Site Prep/Reclam.	14 sites @ \$300/site	5,400
Analytical		
Geochem	2,000 samples @ \$12.50/ea.	25,000
Fire Assay	1,200 samples @ \$20.50/ea.	24,600
Equipment & Supplies		
(Sample bags, core splitter, photo supplies)		6,000
Core splitter (laborer)		5,000
	Subtotal	\$326,000
	+ 10% Contingency	32,600
	<b>TOTAL</b>	<b>\$358,600</b>

TABLE 2.

PROXIMAL TARGET DRILL-INTERCEPTS

Hole ID.	From	To	Drill Thickness	Gold (opt)	Silver (opt)	Strat. Unit
<b>FAR EAST TARGET - HANGING WALL OF THE SOUTH RIDGE FAULT</b>						
RL220	250'	270'	20'	0.740	8.96	Ct
RL258	240'	245'	5'	0.165	1.75	Ct
RL266	160'	180'	20'	0.321	31.97	Ct
RL270C	258'	263'	5'	0.595	4.61	Ct
RL273	100'	115'	15'	0.224	1.36	Ct
	280'	285'	5'	0.375	1.58	Ct
RL278	330'	335'	5'	0.258	9.78	Ct
<b>FAR EAST TARGET - SOUTH RIDGE FAULT &amp; FOOTWALL</b>						
RL273	490'	700'	210'	0.105	0.46	Dt
RL217	645'	650'	5'	0.125	0.34	Dt
	660'	675'	15'	0.156	0.45	Dt
	725'	745'	20'	0.560	0.92	Dt
	785'	810'	25'	0.165	19.95	Dt
RL213	765'	780'	15'	0.252	2.72	Dt
RL214	835'	850'	15'	0.329	0.33	Dt
RL259	680'	720'	40'	0.040	2.10	Dt
	780'	785'	5'	0.113	0.32	Dt
<b>SOUTH EAST TARGET</b>						
RL282	345'	350'	5'	0.103	0.11	Dt
RL8	460'	465'	5'	0.123	1.36	Dt
RL257	440'	450'	10'	0.254	2.13	Dt
RL272	360'	380'	20'	0.283	0.53	Dt
RL37	460'	465'	5'	0.100	0.57	Dt



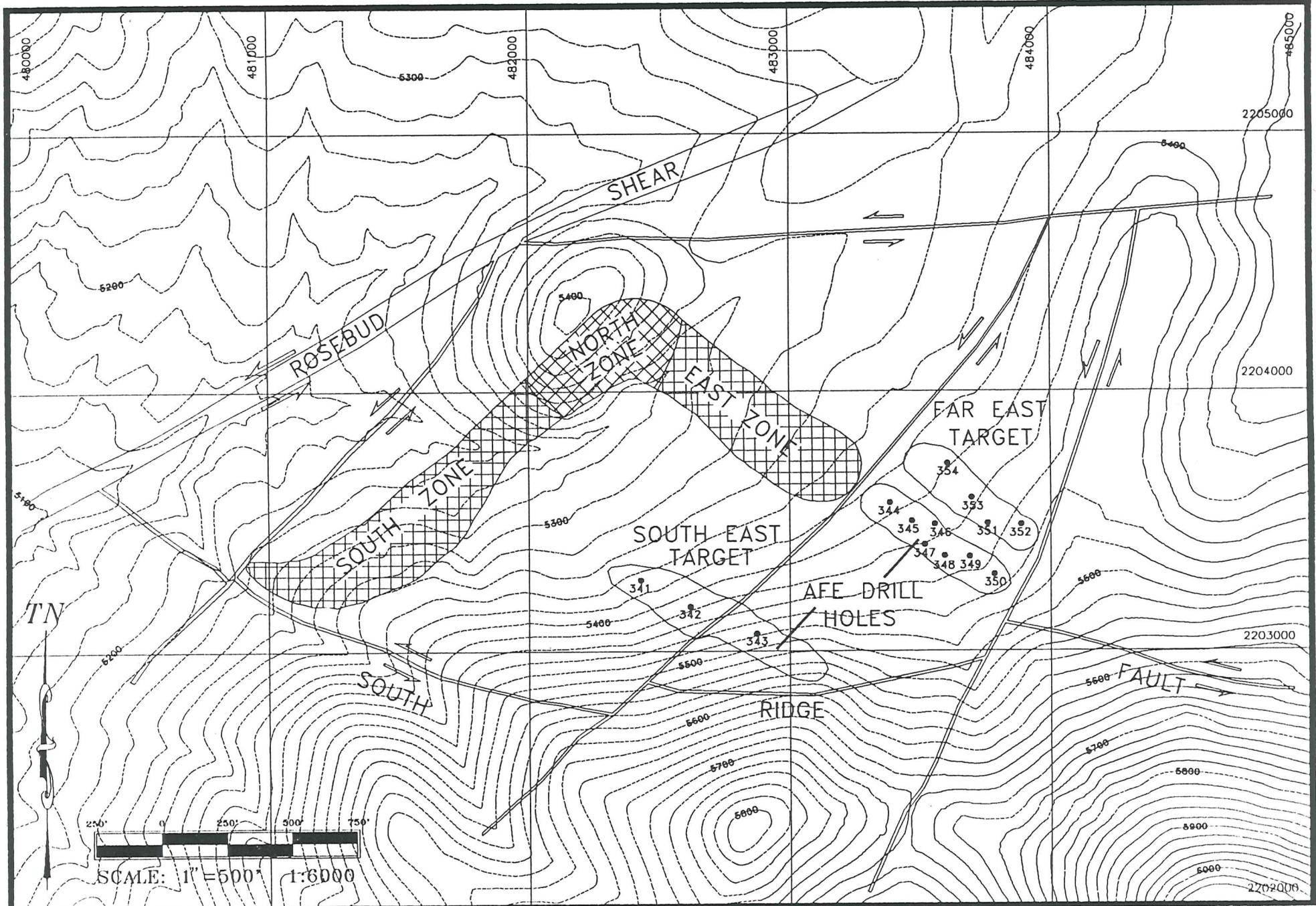


FIGURE 1. LOCATION MAP OF ROSEBUD DEPOSIT, PROXIMAL TARGET AREAS, AND PROPOSED AFE (CONFIRMATION) DRILL HOLES (95-341 to 95-354).

6-13-95 ms

ROSEBUD PROJECT  
HECLA MINING COMPANY

1995 EXPLORATION - PROPOSED PROXIMAL TARGET DRILL HOLES

<u>Hole ID</u>	<u>Incl</u>	<u>Bearing</u>	<u>Depth</u>	<u>Target</u>	<u>Section(s)</u>	<u>Projected Depth &amp; Target Type</u>
95-341	-90	NA	500'	SET	750NE/1200NW	380-450' SRF & Dt in FW
95-342	-90	NA	450'	SET	800NE/1000NW	350-400' SRF & Dt in FW
95-343	-90	NA	450'	SET	800NE/900NW	290-380' SRF & Dt in FW
95-344	-90	NA	600'	FET	1700NE/600NW	25-100' Bdd-plane low < Stx in Ct 300-400' High < Stx in Ct 500-600' SRF & Dt in FW
95-345	-90	NA	600'	FET	1700NE/500NW	100-200' Bdd-plane low < Stx in Ct 400-500' High < Stx in Ct 500-600' SRF & Dt in FW
95-346	-90	NA	1100'	FET	1750NE/500NW	450-650' SRF & Dt in FW 800-900' Low < Stx in Dt 1000-1100' High/ low < Stxs in Tbcs
95-347	-90	NA	600'	FET	1650NE/400NW	150-250' Bdd-plane low < Stx in Ct 250-350' High < Stx in Ct 400-500' SRF & Dt in FW 500-600' High < Stx in Dt

<u>Hole ID</u>	<u>Incl</u>	<u>Bearing</u>	<u>Depth</u>	<u>Target</u>	<u>Section(s)</u>	<u>Projected Depth &amp; Target Type</u>
95-348	-90	NA	500'	FET	1700NE/300NW	200-270' Bdd-plane low < Stx in Ct 400-500' SRF & Dt in FW
95-349	-90	NA	1050'	FET	1650NE/200NW	250-350' Bdd-plane low < Stx in Ct 400-500' SRF & Dt in FW 800-900' Low < Stx in Dt 1000-1050' High/ low < Stxs in TbcS
95-350	-90	NA	500'	FET	1700NE/100NW	250-350' Bdd-plane low < Stx in Ct 400-500' SRF & Dt in FW
95-351	-90	NA	900'	FET	1850NE/300NW	50-200' High < Stx in Ct 550-650' SRF & Dt in FW 650-900' Low/ high < Stxs in Dt
95-352	-90	NA	900'	FET	1950NE/200NW	25-100' High < Stx in Ct 550-650' SRF & Dt in FW 650-900' Low/high < Stxs in Dt
95-353	-90	NA	950'	FET	2000NE/400NW	700-850' SRF & Dt in FW 850-950' Low/ high < Stxs in Dt
95-354	-90	NA	900'	FET	2050NE/500NW	750-825' SRF & Dt in FW 825-900' Low/ high < Stxs in Dt

**Notes:**

Ct Chocolate Tuff

Dt Dozer Tuff

Tbcs Tertiary Basal Carbonaceous Sediments

SRF South Ridge Fault

Stx Structure

< Angle

SET South East Target

FET Far East Target

NA Not Applicable



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-----P.O. BOX 11530  
-----RENO NV 89510-1530

AMERICAN ASSAY LABORATORIES  
1500 GLENDALE AVE.  
SPARKS, NV 89431

INVOICE NO: SP 0035422-IN  
INVOICE DATE: 09/22/95

(702) 356-0606

*For East Drilling*

INVOICE TO:  
HECLA MINING COMPANY  
1225 UPPER VALLEY ROAD  
P. O. BOX 1861  
LOVELOCK NV 89419

HECLA MINING COMPANY  
1225 UPPER VALLEY ROAD  
P. O. BOX 1861  
LOVELOCK NV 89419

CUSTOMER P.O.	PROJECT	TERMS	NET 30 - DUE IN U.S. DOLLARS	
QUANTITY	DESCRIPTION	PRICE	AMOUNT	
184	SAMPLES RECEIVED	.00	.00	
184	JAW CRUSHING CHARGE	2.60	478.40	
184	COARSE MILLING CHARGE	8.00	1,472.00	
184	SPLITTING CHARGE	2.40	441.60	
184	KEEGOR MILLING CHARGE	2.00	368.00	
184	MIX/ROLL BLEND	1.20	220.80	
184	RING MILLING CHARGE	2.00	368.00	
184	Au (2 A.T. FIRE ASSAY)	10.25	1,886.00	
184	HYDROCHLORIC/NITRIC DIGESTION	2.00	368.00	
184	Ag ANALYSES	1.00	184.00	

*ok to pay*

*716150-477*

*Charles V. Murch*

NET INVOICE: 5,786.80  
LESS DISCOUNT: 1,909.64  
FREIGHT: .00

INVOICE TOTAL: *3,877.16*

PLEASE NOTE THAT WE HAVE CHANGED OUR REMIT TO  
MAILING ADDRESS.



# INVOICE

\*\*\*\*\*REMIT TO P.O. BOX 71060  
\*\*\*\*\*CHANGE OF ADDRESS\*\*\*\*\*  
-----PLEASE REMIT TO  
-----P.O. BOX 11530  
-----RENO NV 89510-1530

AMERICAN ASSAY LABORATORIES  
1500 GLENDALE AVE.  
SPARKS, NV 89431

INVOICE NO: SP 0035422-IN  
INVOICE DATE: 09/22/95

(702) 356-0606

*For East Drilling*

INVOICE TO:  
HECLA MINING COMPANY  
1225 UPPER VALLEY ROAD  
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LOVELOCK NV 89419

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CUSTOMER P.O.	PROJECT	TERMS	NET 30 - DUE IN U.S. DOLLARS	
QUANTITY	DESCRIPTION	PRICE	AMOUNT	
184	SAMPLES RECEIVED	.00	.00	
184	JAW CRUSHING CHARGE	2.60	478.40	
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184	Ag ANALYSES	1.00	184.00	

*Ok to pay  
716150-477*

*Charles V. Murch*

NET INVOICE: 5,786.80  
LESS DISCOUNT: 1,909.64  
FREIGHT: .00

INVOICE TOTAL: 3,877.16

PLEASE NOTE THAT WE HAVE CHANGED OUR REMIT TO  
MAILING ADDRESS.

AN ASSAY LABORATORIES  
ANALYSIS REPORT : SPO35422



American  
Assay  
Laboratories

P.O. BOX 11530  
RENO, NV, USA  
Ph. 1-702-356-0606, Fax. 1-702-356-1413  
Telex:

HECLA MINING CO.

COPIES TO : CHARLIE MUERHOFF

:  
:  
:  
:

CLIENT REFERENCE No: 95-353

RECEIVED : 6 SEP 1995

No. SAMPLES : 184

REPORTED : 21 SEP 1995

MAIN SAMPLE TYPE : DRILL CORE

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au(OZ)	FA60	15%	OPT	0.001
Au(RZ)	FA60	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02



CLIENT : HECLA MINING CO.  
PROJECT : ROSEBUD  
REFERENCE : 95-353  
REPORTED : 21 SEP 1995

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	Ag(OZ) D210 OPT
95-353 133-138	<0.001		<0.02
95-353 138-143	0.005	0.003	0.04
95-353 143-148	0.001		0.02
95-353 148-153	<0.001		0.07
95-353 153-155	<0.001		0.02
95-353 155-156.4	<0.001		<0.02
95-353 156.4-158	<0.001		<0.02
95-353 158-163	<0.001		<0.02
95-353 163-168	<0.001		<0.02
95-353 168-173	<0.001	<0.001	<0.02
95-353 173-174.5	<0.001		<0.02
95-353 174.5-176.3	<0.001		<0.02
95-353 176.3-180	<0.001		<0.02
95-353 180-184.4	<0.001		<0.02
95-353 184.4-186	<0.001		<0.02
95-353 186-191.2	<0.001		<0.02
95-353 191.2-193	<0.001		<0.02
95-353 193-198	<0.001		<0.02
95-353 198-203	<0.001		<0.02
95-353 203-204	<0.001		<0.02
95-353 204-205.3	<0.001		<0.02
95-353 205.3-210.3	<0.001		<0.02
95-353 210.3-212.9	<0.001	<0.001	<0.02
95-353 212.9-215	<0.001		<0.02
95-353 215-220	<0.001		<0.02

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PROJECT : ROSEBUD  
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REPORTED : 21 SEP 1995

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	Ag(OZ) D210 OPT
95-353 220-225	<0.001		<0.02
95-353 225-230	<0.001		<0.02
95-353 230-233.5	<0.001		<0.02
95-353 233.5-235.6	<0.001		<0.02
95-353 235.6-240	<0.001		<0.02
95-353 240-245	<0.001	<0.001	<0.02
95-353 245-250	<0.001		<0.02
95-353 250-256	<0.001		<0.02
95-353 256-262	<0.001		<0.02
95-353 262-268.2	<0.001		<0.02
95-353 268.2-273	<0.001		<0.02
95-353 273-278	<0.001		<0.02
95-353 278-283	<0.001		<0.02
95-353 283-288	<0.001	<0.001	<0.02
95-353 288-293	<0.001		<0.02
95-353 293-298	<0.001		<0.02
95-353 298-303	<0.001		<0.02
95-353 303-308	<0.001		<0.02
95-353 308-313	<0.001		<0.02
95-353 313-318	<0.001		<0.02
95-353 318-323	<0.001		<0.02
95-353 323-328	<0.001		<0.02
95-353 328-333	<0.001		<0.02
95-353 333-338	<0.001		<0.02
95-353 338-341.1	<0.001	<0.001	<0.02

AMERICAN ASSAY LABORATORIES  
ANALYSIS REPORT

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American  
Assay  
LaboratoriesCLIENT : HECLA MINING CO.  
PROJECT : ROSEBUD  
REFERENCE : 95-353

REPORTED : 21 SEP 1995

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	Ag(OZ) D210 OPT
95-353 341.1-343.3	<0.001		<0.02
95-353 343.3-347	<0.001		0.03
95-353 347-351.2	<0.001		<0.02
95-353 351.2-356	0.001		0.26
95-353 356-358.5	0.001		0.09
95-353 358.5-363	<0.001		0.05
95-353 363-366	<0.001		<0.02
95-353 366-371	<0.001		<0.02
95-353 371-373	<0.001		<0.02
95-353 373-379	0.001		0.08
95-353 379-384	0.006		0.08
95-353 384-389	<0.001		<0.02
95-353 389-395	<0.001		<0.02
95-353 395-400	<0.001		<0.02
95-353 400-405	<0.001	<0.001	<0.02
95-353 405-410	<0.001	<0.001	<0.02
95-353 410-416	<0.001		<0.02
95-353 416-418	<0.001		<0.02
95-353 418-423	<0.001		<0.02
95-353 423-428	<0.001		<0.02
95-353 428-433	<0.001		<0.02
95-353 433-435	<0.001		<0.02
95-353 435-440	<0.001		<0.02
95-353 440-445	<0.001		<0.02
95-353 445-450	<0.001		<0.02

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SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	Ag(OZ) D210 OPT
95-353 450-455	<0.001		<0.02
95-353 455-460	<0.001		<0.02
95-353 460-465	<0.001		<0.02
95-353 465-470	0.001		<0.02
95-353 470-475	<0.001		0.12
95-353 475-477	<0.001	<0.001	<0.02
95-353 477-479	<0.001		0.05
95-353 479-484	<0.001		<0.02
95-353 484-489	<0.001		<0.02
95-353 489-494	<0.001		<0.02
95-353 494-498	<0.001		<0.02
95-353 498-502	<0.001		<0.02
95-353 502-507	<0.001	<0.001	<0.02
95-353 507-509.5	<0.001		<0.02
95-353 509.5-511	<0.001		<0.02
95-353 511-516	<0.001	<0.001	<0.02
95-353 516-521	<0.001		<0.02
95-353 521-526	<0.001		<0.02
95-353 526-530	<0.001		<0.02
95-353 530-534	<0.001		<0.02
95-353 534-537.5	<0.001		<0.02
95-353 537.5-541	<0.001		<0.02
95-353 541-546	<0.001		<0.02
95-353 546-551	<0.001		<0.02
95-353 551-553.5	<0.001		<0.02

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REPORTED : 21 SEP 1995

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	Ag(OZ) D210 OPT
95-353 553.5-558	<0.001	<0.001	<0.02
95-353 558-561	<0.001		<0.02
95-353 561-566	<0.001		<0.02
95-353 566-571	<0.001		<0.02
95-353 571-573	<0.001		<0.02
95-353 573-579	<0.001		<0.02
95-353 579-580	<0.001		<0.02
95-353 580-584	<0.001		<0.02
95-353 584-588	<0.001		<0.02
95-353 588-590.4	<0.001		<0.02
95-353 590.4-594	<0.001	<0.001	0.03
95-353 594-599	<0.001		<0.02
95-353 599-604	<0.001		<0.02
95-353 604-609	<0.001		<0.02
95-353 609-612.3	<0.001		<0.02
95-353 612.3-617.7	<0.001		<0.02
95-353 617.7-622.8	<0.001		<0.02
95-353 622.8-627.8	<0.001		<0.02
95-353 627.8-632.5	<0.001		<0.02
95-353 632.5-637.5	<0.001		<0.02
95-353 637.5-642.5	<0.001	<0.001	<0.02
95-353 642.5-647	<0.001		<0.02
95-353 647-653	<0.001	<0.001	<0.02
95-353 653-657.5	<0.001		<0.02
95-353 657.5-663	<0.001		<0.02

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REFERENCE : 95-353  
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SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	Ag(OZ) D210 OPT
95-353 663-668.2	<0.001		<0.02
95-353 668.2-673.2	<0.001		<0.02
95-353 673.2-679	<0.001		<0.02
95-353 679-684	<0.001		<0.02
95-353 684-689	<0.001		<0.02
95-353 689-694	<0.001		<0.02
95-353 694-699	<0.001		<0.02
95-353 699-705	<0.001		<0.02
95-353 705-706.4	<0.001		<0.02
95-353 706.4-709	<0.001		<0.02
95-353 709-712.7	<0.001		<0.02
95-353 712.7-716	<0.001	<0.001	<0.02
95-353 716-719	<0.001		<0.02
95-353 719-723	<0.001		<0.02
95-353 723-728	<0.001		<0.02
95-353 728-733	<0.001	<0.001	<0.02
95-353 733-737.8	<0.001		<0.02
95-353 737.8-738	<0.001		<0.02
95-353 738-743	<0.001		<0.02
95-353 743-748.5	<0.001		<0.02
95-353 748.5-753	<0.001		<0.02
95-353 753-756.6	<0.001		<0.02
95-353 756.6-762.2	<0.001		<0.02
95-353 762.2-763	<0.001		<0.02
95-353 763-768	<0.001		0.04

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SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	Ag(OZ) D210 OPT
95-353 768-773	<0.001		<0.02
95-353 773-778	<0.001		<0.02
95-353 778-783	<0.001		<0.02
95-353 783-788	<0.001		<0.02
95-353 788-793	<0.001		<0.02
95-353 793-798	<0.001		<0.02
95-353 798-803	<0.001		<0.02
95-353 803-806	<0.001		<0.02
95-353 808-812	<0.001		<0.02
95-353 812-817	<0.001		<0.02
95-353 817-823.3	<0.001	<0.001	<0.02
95-353 823.3-826.5	<0.001		<0.02
95-353 826.5-832	<0.001		<0.02
95-353 832-837	<0.001		<0.02
95-353 837-842	<0.001		<0.02
95-353 842-847	<0.001	<0.001	<0.02
95-353 847-853	<0.001		<0.02
95-353 853-858	<0.001		<0.02
95-353 858-863	<0.001		<0.02
95-353 863-868	<0.001		<0.02
95-353 868-873	<0.001		<0.02
95-353 873-878	<0.001		<0.02
95-353 878-883	<0.001		<0.02
95-353 883-885.1	<0.001		<0.02
95-353 885.1-885.6	<0.001		<0.02

AMERICAN ASSAY LABORATORIES  
ANALYSIS REPORT

SPO35422

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Laboratories

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REFERENCE : 95-353

REPORTED : 21 SEP 1995

SAMPLES	Au(OZ)	Au(RZ)	Ag(OZ)
	FA60 OPT	FA60 OPT	D210 OPT
95-353 885.6-888	<0.001		<0.02
95-353 888-893	<0.001		<0.02
95-353 893-898	<0.001		<0.02
95-353 898-901.2	<0.001		<0.02
95-353 901.2-903	<0.001		<0.02
95-353 903-908	<0.001		<0.02
95-353 908-913	<0.001		<0.02
95-353 913-918	<0.001		<0.02
95-353 918-922	<0.001		<0.02



# INVOICE

\*\*\*\*\*CHANGE OF ADDRESS\*\*\*\*\*  
-----PLEASE REMIT TO  
-----P.O. BOX 11530  
-----RENO NV 89510-1530

AMERICAN ASSAY LABORATORIES  
1500 GLENDALE AVE.  
SPARKS, NV 89431

INVOICE NO: SP 0035313-TN  
INVOICE DATE: 09/11/95

(702) 356-0606

*For East*

INVOICE TO:  
HECLA MINING COMPANY  
1225 UPPER VALLEY ROAD  
P. O. BOX 1861  
LOVELOCK NV 89419

HECLA MINING COMPANY  
1225 UPPER VALLEY ROAD  
P. O. BOX 1861  
LOVELOCK NV 89419

CUSTOMER P.O.	PROJECT	TERMS	
95-353	ROSEBUD	NET 30 - DUE IN U.S. DOLLARS	
QUANTITY	DESCRIPTION	PRICE	AMOUNT
27	SAMPLES RECEIVED	.00	.00
27	JAW CRUSHING CHARGE	1.30	35.10
27	COARSE MILLING CHARGE	4.00	108.00
27	SPLITTING CHARGE	1.80	48.60
27	KEEGOR MILLING CHARGE	2.00	54.00
27	BLENDING CHARGE	1.00	27.00
27	RING MILLING CHARGE	2.00	54.00
27	AU (2 A.T. FIRE ASSAY)	10.25	276.75
27	HYDROCHLORIC/NITRIC DIGESTION	2.00	54.00
27	Ag ANALYSES	1.00	27.00

*OK to pay  
716150-477*

*Charles V. Murchoff*

NET INVOICE: 684.45  
LESS DISCOUNT: 225.87  
FREIGHT: .00

INVOICE TOTAL:

*458.58*

PLEASE NOTE THAT WE HAVE CHANGED OUR REMIT TO  
MAILING ADDRESS.

AMERICAN ASSAY LABORATORIES  
ANALYSIS REPORT :

SPO35313



American  
Assay  
Laboratories

P.O. BOX 11530

RENO, NV., USA

Ph. 1-702-356-0606, Fax. 1-702-356-1413

Telex:

70-621

HECLA MINING CO.

COPIES TO : CHARLIE MUERHOFF

:

:

:

:

CLIENT REFERENCE No: 95-353

RECEIVED : 29 AUG 1995

No. SAMPLES : 27

REPORTED : 11 SEP 1995

MAIN SAMPLE TYPE : DRILL CORE

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au(OZ)	FA60	15%	OPT	0.001
Au(RZ)	FA60	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02



CLIENT : HECLA MINING CO.  
 PROJECT : ROSEBUD  
 REFERENCE : 95-353

REPORTED : 11 SEP 1995

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	Ag(OZ) D210 OPT
95-353 9.5-15	<0.001		<0.02
95-353 15-20	<0.001		<0.02
95-353 20-23	<0.001	<0.001	<0.02
95-353 23-28	<0.001		<0.02
95-353 28-33	<0.001		<0.02
95-353 33-38	<0.001		<0.02
95-353 38-42.7	<0.001		<0.02
95-353 42.7-44.5	<0.001		<0.02
95-353 44.5-50	<0.001		<0.02
95-353 50-55	<0.001		<0.02
95-353 55-60	<0.001	<0.001	<0.02
95-353 60-65	<0.001		<0.02
95-353 65-70	<0.001		<0.02
95-353 70-72	<0.001		<0.02
95-353 72-77	<0.001		<0.02
95-353 77-82	<0.001		<0.02
95-353 82-87	<0.001		<0.02
95-353 87-92	<0.001		0.02
95-353 92-97	<0.001		0.05
95-353 97-102	<0.001		0.02
95-353 102-106.6	<0.001		<0.02
95-353 106.6-108.2	<0.001		<0.02
95-353 108.2-113.7	<0.001		<0.02
95-353 113.7-118	<0.001		<0.02
95-353 118-123	<0.001		<0.02

AMERICAN ASSAY LABORATORIES

**ANALYSIS REPORT :**

SPO35313



**American  
Assay  
Laboratories**

CLIENT : HECLA MINING CO.  
PROJECT : ROSEBUD  
REFERENCE : 95-353

REPORTED : 11 SEP 1995

SAMPLES	Au(OZ) FA60	Au(RZ) FA60	Ag(OZ) D210
	OPT	OPT	OPT
95-353 123-128	<0.001		<0.02
95-353 128-133	<0.001		<0.02

## AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT : SPO35313

American  
Assay  
Laboratories

CLIENT : HECLA MINING CO.  
 PROJECT : ROSEBUD  
 REFERENCE : 95-353

REPORTED : 11 SEP 1995

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	Ag(OZ) D210 OPT
95-353 9.5-15	<0.001		<0.02
95-353 15-20	<0.001		<0.02
95-353 20-23	<0.001	<0.001	<0.02
95-353 23-28	<0.001		<0.02
95-353 28-33	<0.001		<0.02
95-353 33-38	<0.001		<0.02
95-353 38-42.7	<0.001		<0.02
95-353 42.7-44.5	<0.001		<0.02
95-353 44.5-50	<0.001		<0.02
95-353 50-55	<0.001		<0.02
95-353 55-60	<0.001	<0.001	<0.02
95-353 60-65	<0.001		<0.02
95-353 65-70	<0.001		<0.02
95-353 70-72	<0.001		<0.02
95-353 72-77	<0.001		<0.02
95-353 77-82	<0.001		<0.02
95-353 82-87	<0.001		<0.02
95-353 87-92	<0.001		0.02
95-353 92-97	<0.001		0.05
95-353 97-102	<0.001		0.02
95-353 102-106.6	<0.001		<0.02
95-353 106.6-108.2	<0.001		<0.02
95-353 108.2-113.7	<0.001		<0.02
95-353 113.7-118	<0.001		<0.02
95-353 118-123	<0.001		<0.02

AMERICAN ASSAY LABORATORIES

**ANALYSIS REPORT**

**SPO35313**

CLIENT : HECLA MINING CO.  
PROJECT : ROSEBUD  
REFERENCE : 95-353

REPORTED : 11 SEP 1995



**American  
Assay  
Laboratories**

SAMPLES	Au(OZ)	Au(RZ)	Ag(OZ)
	FA60 OPT	FA60 OPT	D210 OPT
95-353 123-128	<0.001		<0.02
95-353 128-133	<0.001		<0.02



## INVOICE

\*\*\*\*\*CHANGE OF ADDRESS\*\*\*\*\*  
-----PLEASE REMIT TO  
-----P.O. BOX 11530  
-----RENO NV 89510-1530

AMERICAN ASSAY LABORATORIES  
1500 GLENDALE AVE.  
SPARKS, NV 89431

INVOICE NO: SP 0035561-IN  
INVOICE DATE: 10/06/95

(702) 356-0606

INVOICE TO:  
HECLA MINING COMPANY  
1225 UPPER VALLEY ROAD  
P. O. BOX 1861  
LOVELOCK NV 89419

HECLA MINING COMPANY  
1225 UPPER VALLEY ROAD  
P. O. BOX 1861  
LOVELOCK NV 89419

CUSTOMER P.O.	PROJECT	TERMS	NET 30 - DUE IN U.S. DOLLARS	
QUANTITY	DESCRIPTION		PRICE	AMOUNT
116	SAMPLES RECEIVED		.00	.00
116	JAW CRUSHING CHARGE		1.30	150.80
116	COARSE MILLING CHARGE		4.00	464.00
116	SPLITTING CHARGE		1.80	208.80
116	KEEGOR MILLING CHARGE		2.00	232.00
116	MIX/ROLL BLEND		1.20	139.20
116	RING MILLING CHARGE		2.00	232.00
116	Au (2 A.T. FIRE ASSAY)		10.25	1,189.00
116	HYDROCHLORIC/NITRIC DIGESTION		2.00	232.00
116	Ag ANALYSES		1.00	116.00
2	Ag (ore grade) ANALYSES		5.00	10.00

OK to pay  
~~Ames~~

716150-477  
Charles V. Murchison

NET INVOICE: 2,973.80  
LESS DISCOUNT: 981.35  
FREIGHT: .00

INVOICE TOTAL: 1,992.45

PLEASE NOTE THAT WE HAVE CHANGED OUR REMIT TO  
MAILING ADDRESS.



P.O. BOX 11530  
RENO, NV., USA  
Ph. 1-702-356-0606, Fax. 1-702-356-1413  
Telex:

## HECLA MINING CO.

COPIES TO : CHARLIE MUERHOFF

:  
:  
:  
:

CLIENT REFERENCE No: 95-352

RECEIVED : 18 SEP 1995

No. SAMPLES : 116

REPORTED : 5 OCT 1995

MAIN SAMPLE TYPE : DRILL CORE

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au(OZ)	FA60	15%	OPT	0.001
Au(RZ)	FA60	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

AMERICAN ASSAY LABORATORIES

**ANALYSIS REPORT : SPO35561**

CLIENT : HECLA MINING CO.  
 PROJECT : ROSEBUD  
 REFERENCE : 95-352

REPORTED : 5 OCT 1995


**American  
Assay  
Laboratories**

SAMPLES		Au(OZ) FA60	Au(RZ) FA60	Ag(OZ) D210
		OPT	OPT	OPT
95-352	266.2-271.3	0.029		2.00
95-352	271.3-276.2	0.006		0.16
95-352	276.2-280.8	0.075		0.69
95-352	280.8-282.8	<0.001		0.03
95-352	282.8-283.7	0.003		0.12
95-352	283.7-286.4	0.003		0.06
95-352	286.4-289.2	0.002		0.04
95-352	289.2-295.8	<0.001		0.03
95-352	295.8-299	0.001		0.13
95-352	299-302.5	<0.001		0.04
95-352	302.5-307	<0.001		0.02
95-352	307-312	<0.001		0.03
95-352	312-317	<0.001		0.03
95-352	317-322	<0.001		0.03
95-352	322-327	<0.001		0.02
95-352	327-332	0.002		0.09
95-352	332-337	0.001		0.06
95-352	337-342	<0.001		0.02
95-352	342-344.8	<0.001		0.03
95-352	344.8-348	<0.001		0.02
95-352	348-352.6	<0.001		<0.02
95-352	352.6-358	<0.001	<0.001	0.02
95-352	358-363	0.002		0.08
95-352	363-368.2	<0.001		0.02
95-352	368.2-372.4	<0.001		<0.02

AMERICAN ASSAY LABORATORIES  
ANALYSIS REPORT :

SPO35561

American  
Assay  
Laboratories

CLIENT : HECLA MINING CO.  
PROJECT : ROSEBUD  
REFERENCE : 95-352

REPORTED : 5 OCT 1995

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	Ag(OZ) D210 OPT
95-352 372.4-376.6	<0.001		<0.02
95-352 376.6-382	<0.001		<0.02
95-352 382-385	<0.001		<0.02
95-352 385-389.9	<0.001	<0.001	<0.02
95-352 389.9-396	<0.001		<0.02
95-352 396-399	<0.001		<0.02
95-352 399-402	<0.001		<0.02
95-352 402-405.1	<0.001		<0.02
95-352 405.1-409.5	<0.001	<0.001	<0.02
95-352 409.5-414.5	<0.001		<0.02
95-352 414.5-419.5	<0.001		<0.02
95-352 419.5-424.5	<0.001		<0.02
95-352 424.5-427	<0.001		<0.02
95-352 427-432	<0.001		<0.02
95-352 432-437	<0.001		<0.02
95-352 437-442	<0.001	<0.001	<0.02
95-352 442-446.7	<0.001		<0.02
95-352 446.7-451.5	<0.001		0.03
95-352 451.5-457.5	<0.001		0.02
95-352 457.5-462.8	<0.001		0.04
95-352 462.8-465.1	<0.001		0.02
95-352 465.1-467.7	<0.001		0.02
95-352 467.7-471.4	<0.001		0.02
95-352 471.4-474	<0.001		0.03
95-352 474-477.4	0.002		0.03

AMERICAN ASSAY LABORATORIES  
ANALYSIS REPORT :

SPO35561

American  
Assay  
Laboratories

CLIENT : HECLA MINING CO.  
PROJECT : ROSEBUD  
REFERENCE : 95-352

REPORTED : 5 OCT 1995

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	Ag(OZ) D210 OPT
95-352 477.4-480.5	<0.001		0.02
95-352 480.5-484	<0.001		<0.02
95-352 484-487	<0.001		<0.02
95-352 487-492	<0.001		<0.02
95-352 492-497.4	<0.001		<0.02
95-352 497.4-502	<0.001		<0.02
95-352 502-507	<0.001	<0.001	<0.02
95-352 507-512	<0.001		<0.02
95-352 512-517	<0.001		<0.02
95-352 517-522	<0.001		0.02
95-352 522-527	<0.001		<0.02
95-352 527-532	<0.001		<0.02
95-352 532-533.5	<0.001		0.02
95-352 533.5-536.4	<0.001		0.04
95-352 536.4-540	<0.001		0.02
95-352 540-544	<0.001		<0.02
95-352 544-549	<0.001	<0.001	<0.02
95-352 549-553.7	<0.001		<0.02
95-352 553.7-558	<0.001		<0.02
95-352 558-563	<0.001		<0.02
95-352 563-568	<0.001		<0.02
95-352 568-572	<0.001		<0.02
95-352 572-575.6	<0.001		<0.02
95-352 575.6-578	<0.001	<0.001	<0.02
95-352 578-579	<0.001		<0.02

CLIENT : HECLA MINING CO.  
 PROJECT : ROSEBUD  
 REFERENCE : 95-352

REPORTED : 5 OCT 1995



SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	Ag(OZ) D210 OPT
95-352 579-584	<0.001		<0.02
95-352 584-589	<0.001		<0.02
95-352 589-594	<0.001		<0.02
95-352 594-599	<0.001		<0.02
95-352 599-601.7	<0.001		<0.02
95-352 601.7-605.8	<0.001		<0.02
95-352 605.8-611	<0.001		<0.02
95-352 611-613.5	<0.001		<0.02
95-352 613.5-618	<0.001		<0.02
95-352 618-623	<0.001		<0.02
95-352 623-628.8	<0.001		<0.02
95-352 628.8-634.5	<0.001		<0.02
95-352 634.5-636.7	<0.001		<0.02
95-352 636.7-639.4	<0.001		<0.02
95-352 639.4-641.6	<0.001		<0.02
95-352 641.6-644.2	<0.001		<0.02
95-352 644.2-645	<0.001		<0.02
95-352 645-650	<0.001		<0.02
95-352 650-655	<0.001		<0.02
95-352 655-660	<0.001		<0.02
95-352 660-664.5	<0.001		<0.02
95-352 664.5-670	<0.001		<0.02
95-352 670-675	<0.001		<0.02
95-352 675-680.3	<0.001		<0.02
95-352 680.3-685.5	<0.001		0.03

AMERICAN ASSAY LABORATORIES  
ANALYSIS REPORT

SPO35561

American  
Assay  
Laboratories

CLIENT : HECLA MINING CO.  
PROJECT : ROSEBUD  
REFERENCE : 95-352

REPORTED : 5 OCT 1995

SAMPLES	Au(OZ)	Au(RZ)	Ag(OZ)
	FA60 OPT	FA60 OPT	D210 OPT
95-352 685.5-690	<0.001		0.05
95-352 690-695	0.001		0.08
95-352 695-698.1	<0.001		0.34
95-352 698.1-700	0.032		0.12
95-352 700-705	0.029		0.14
95-352 705-710	0.005		0.08
95-352 710-715	0.003		0.04
95-352 715-720	0.002		0.04
95-352 720-725	0.005		0.04
95-352 725-730	0.002		0.05
95-352 730-734.5	0.008		0.06
95-352 734.5-740	<0.001		0.05
95-352 740-742	0.008		0.15
95-352 742-745.7	0.007		0.16
95-352 745.7-747.5	0.036		6.60
95-352 747.5-748.2	0.008		0.04



# INVOICE

\*\*\*\*\*CHANGE OF ADDRESS\*\*\*\*\*  
-----PLEASE REMIT TO  
-----P.O. BOX 11530  
-----RENO NV 89510-1530

AMERICAN ASSAY LABORATORIES  
1500 GLENDALE AVE.  
SPARKS, NV 89431

INVOICE NO: SP 0035683-IN  
INVOICE DATE: 10/06/95

(702) 356-0606

INVOICE TO:  
HECLA MINING COMPANY  
1225 UPPER VALLEY ROAD  
P. O. BOX 1861  
LOVELOCK NV 89419

HECLA MINING COMPANY  
1225 UPPER VALLEY ROAD  
P. O. BOX 1861  
LOVELOCK NV 89419

CUSTOMER P.O.	PROJECT	TERMS	NET 30 - DUE IN U.S. DOLLARS	
QUANTITY	DESCRIPTION	PRICE	AMOUNT	
40	SAMPLES RECEIVED	.00	.00	
40	JAW CRUSHING CHARGE	1.30	52.00	
40	COARSE MILLING CHARGE	4.00	160.00	
40	SPLITTING CHARGE	1.80	72.00	
40	KEEGOR MILLING CHARGE	2.00	80.00	
40	MIX/ROLL BLEND	1.20	48.00	
40	RING MILLING CHARGE	2.00	80.00	
40	Au (2 A.T. FIRE ASSAY)	10.25	410.00	
40	HYDROCHLORIC/NITRIC DIGESTION	2.00	80.00	
40	Ag ANALYSES	1.00	40.00	

OK to pay  
716150-471

Charles V. Marshall

NET INVOICE: 1,022.00  
LESS DISCOUNT: 337.26  
FREIGHT: .00

INVOICE TOTAL: 684.74

PLEASE NOTE THAT WE HAVE CHANGED OUR REMIT TO  
MAILING ADDRESS.

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT : SPO35683



American  
Assay  
Laboratories

P.O. BOX 11530

RENO, NV., USA

Ph.1-702-356-0606, Fax.1-702-356-1413

Telex:

## HECLA MINING CO.

COPIES TO : CHARLIE MUERHOFF

:

:

:

CLIENT REFERENCE No: 95-352

RECEIVED : 26 SEP 1995

No. SAMPLES : 40

REPORTED : 5 OCT 1995

MAIN SAMPLE TYPE : DRILL CORE

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au(OZ)	FA60	15%	OPT	0.001
Au(RZ)	FA60	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

AMERICAN ASSAY LABORATORIES

## ANALYSIS REPORT :

SPO35683


**American  
Assay  
Laboratories**

CLIENT : HECLA MINING CO.  
 PROJECT : ROSEBUD  
 REFERENCE : 95-352

REPORTED : 5 OCT 1995

SAMPLES		Au(OZ) FA60	Au(RZ) FA60	Ag(OZ) D210
		OPT	OPT	OPT
95-352 748.2-752		0.020		0.02
95-352 752-757		0.082		0.13
95-352 757-762		0.007		0.02
95-352 762-767		<0.001		<0.02
95-352 767-772		<0.001		<0.02
95-352 772-777		<0.001		<0.02
95-352 777-782		<0.001		<0.02
95-352 782-787		<0.001		0.10
95-352 787-789		<0.001		0.07
95-352 789-792		0.006		0.49
95-352 792-795		0.094		0.45
95-352 795-798.2		0.132		0.66
95-352 798.2-802		0.009		0.05
95-352 802-807		0.009		0.05
95-352 807-813.5		0.009		0.07
95-352 813.5-818		0.004		0.07
95-352 818-821.5		0.001		0.03
95-352 821.5-826.5		0.003		0.03
95-352 826.5-831.3		<0.001		0.02
95-352 831.3-831.5		0.005		0.04
95-352 831.5-837		0.001	0.001	0.04
95-352 837-842		<0.001		0.03
95-352 842-847		0.001		0.05
95-352 847-852		0.008		0.05
95-352 852-857		0.010		0.08

AMERICAN ASSAY LABORATORIES  
ANALYSIS REPORT

SPO35683

American  
Assay  
LaboratoriesCLIENT : HECLA MINING CO.  
PROJECT : ROSEBUD  
REFERENCE : 95-352

REPORTED : 5 OCT 1995

SAMPLES	Au(OZ)	Au(RZ)	Ag(OZ)
	FA60 OPT	FA60 OPT	D210 OPT
95-352 857-862	0.004		0.04
95-352 862-867	0.001		0.03
95-352 867-872	0.025		0.05
95-352 872-877	0.128		0.11
95-352 877-878	0.203		0.38
95-352 878-882	0.008		0.03
95-352 882-887	<0.001		<0.02
95-352 887-891.4	<0.001		<0.02
95-352 891.4-897	<0.001		<0.02
95-352 897-902	<0.001	<0.001	<0.02
95-352 902-907	<0.001		<0.02
95-352 907-909.2	<0.001		<0.02
95-352 909.2-912	<0.001		<0.02
95-352 912-917	<0.001		<0.02
95-352 917-922	<0.001		<0.02



## INVOICE

\*\*\*\*\*CHANGE OF ADDRESS\*\*\*\*\*  
-----PLEASE REMIT TO  
-----P.O. BOX 11530  
-----RENO NV 89510-1530

AMERICAN ASSAY LABORATORIES  
1500 GLENDALE AVE.  
SPARKS, NV 89431

INVOICE NO: SP 0035484-IN  
INVOICE DATE: 09/29/95

(702) 356-0606

Far East

INVOICE TO:  
HECLA MINING COMPANY  
1225 UPPER VALLEY ROAD  
P. O. BOX 1861  
LOVELOCK NV 89419

HECLA MINING COMPANY  
1225 UPPER VALLEY ROAD  
P. O. BOX 1861  
LOVELOCK NV 89419

CUSTOMER P.O.	PROJECT	TERMS		
95-352	ROSEBUD	NET 30 - DUE IN U.S. DOLLARS		
QUANTITY	DESCRIPTION	PRICE	AMOUNT	
60	SAMPLES RECEIVED	.00	.00	
60	JAW CRUSHING CHARGE	1.30	78.00	
60	COARSE MILLING CHARGE	4.00	240.00	
60	SPLITTING CHARGE	1.80	108.00	
60	KEEGOR MILLING CHARGE	2.00	120.00	
60	MIX/ROLL BLEND	1.20	72.00	
60	RING MILLING CHARGE	2.00	120.00	
60	Au (2 A.T. FIRE ASSAY)	10.25	615.00	
60	HYDROCHLORIC/NITRIC DIGESTION	2.00	120.00	
60	Ag ANALYSES	1.00	60.00	

OIL to P<sup>2</sup>/J  
716150-471  
Charles V. Muenhoff

NET INVOICE: 1,533.00  
LESS DISCOUNT: 505.89  
FREIGHT: .00

INVOICE TOTAL: 1,027.11

PLEASE NOTE THAT WE HAVE CHANGED OUR REMIT TO  
MAILING ADDRESS.



P.O. BOX 11530  
RENO, NV., USA  
Ph. 1-702-356-0606, Fax. 1-702-356-1413  
Telex:

---

HECLA MINING CO.

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COPIES TO : CHARLIE MUERHOFF

:  
:  
:  
:

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CLIENT REFERENCE No: 95-352

RECEIVED : 12 SEP 1995

No. SAMPLES : 60

REPORTED : 29 SEP 1995

MAIN SAMPLE TYPE : DRILL CORE

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ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au(OZ)	FA60	15%	OPT	0.001
Au(RZ)	FA60	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

---

AMERICAN ASSAY LABORATORIES

**ANALYSIS REPORT****SPO35484**
**American  
Assay  
Laboratories**

CLIENT : HECLA MINING CO.  
 PROJECT : ROSEBUD  
 REFERENCE : 95-352

REPORTED : 29 SEP 1995

SAMPLES	Au(OZ) FA60	Au(RZ) FA60	Ag(OZ) D210
	OPT	OPT	OPT
95-352 16-20	<0.001		<0.02
95-352 20-23.1	<0.001		<0.02
95-352 23.1-25.3	<0.001		<0.02
95-352 25.3-30	<0.001		<0.02
95-352 30-32	<0.001		<0.02
95-352 32-37	<0.001		<0.02
95-352 37-42	<0.001		<0.02
95-352 42-47.1	<0.001		<0.02
95-352 47.1-52	<0.001		<0.02
95-352 52-57	<0.001		<0.02
95-352 57-62	<0.001		<0.02
95-352 62-64	<0.001		<0.02
95-352 64-67	<0.001		<0.02
95-352 67-72	<0.001	<0.001	<0.02
95-352 72-77	<0.001		<0.02
95-352 77-82	<0.001		<0.02
95-352 82-87	<0.001		<0.02
95-352 87-92	<0.001	<0.001	<0.02
95-352 92-97	<0.001		<0.02
95-352 97-102	<0.001		<0.02
95-352 102-107	<0.001		<0.02
95-352 107-112	<0.001		<0.02
95-352 112-117	<0.001		<0.02
95-352 117-122	<0.001		<0.02
95-352 122-127	<0.001		<0.02

AMERICAN ASSAY LABORATORIES

## ANALYSIS REPORT : SPO35484

CLIENT : HECLA MINING CO.  
 PROJECT : ROSEBUD  
 REFERENCE : 95-352

REPORTED : 29 SEP 1995



American  
Assay  
Laboratories

SAMPLES		Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	Ag(OZ) D210 OPT
95-352 127-132		<0.001		<0.02
95-352 132-137		<0.001		<0.02
95-352 137-140		<0.001		<0.02
95-352 140-145		<0.001		<0.02
95-352 145-150		<0.001		<0.02
95-352 150-152		<0.001		<0.02
95-352 152-156.9		<0.001		<0.02
95-352 156.9-162		<0.001		<0.02
95-352 162-167		<0.001	<0.001	<0.02
95-352 167-171.8		0.001		<0.02
95-352 171.8-172.6		0.005		0.05
95-352 172.6-176.7		<0.001		<0.02
95-352 176.7-178.2		0.010		0.05
95-352 178.2-182		0.003		<0.02
95-352 182-187		<0.001		<0.02
95-352 187-192		<0.001		<0.02
95-352 192-194.2		<0.001		<0.02
95-352 194.2-196		<0.001		<0.02
95-352 196-199		<0.001		<0.02
95-352 199-202		<0.001		<0.02
95-352 202-206		<0.001		0.03
95-352 206-210.1		<0.001		<0.02
95-352 210.1-213.1		0.011		0.10
95-352 213.1-217		0.001		0.04
95-352 217-222		<0.001		<0.02

AMERICAN ASSAY LABORATORIES

## ANALYSIS REPORT : SPO35484

CLIENT : HECLA MINING CO.  
 PROJECT : ROSEBUD  
 REFERENCE : 95-352  
 REPORTED : 29 SEP 1995



American  
Assay  
Laboratories

SAMPLES		Au(OZ) FA60	Au(RZ) FA60	Ag(OZ) D210
		OPT	OPT	OPT
95-352 222-227		<0.001		<0.02
95-352 227-232		<0.001		<0.02
95-352 232-237		<0.001		<0.02
95-352 237-242		<0.001		0.03
95-352 242-247		<0.001	<0.001	0.02
95-352 247-250		<0.001		<0.02
95-352 250-253.2		<0.001		<0.02
95-352 253.2-258.2		0.001		0.06
95-352 258.2-261.2		0.009	0.006	0.28
95-352 261.2-266.3		0.308	0.366	12.24



# INVOICE

Remit To: P.O. Box 71060  
Reno, NV 89570  
Phone No.: 702-356-0606  
Fax No.: 702-356-1413

AMERICAN ASSAY LABORATORIES  
1500 GLENDALE AVE.  
SPARKS, NV 89431

INVOICE NO: SP 0035563-IN  
INVOICE DATE: 09/29/95

(702) 356-0606

*For East*

INVOICE TO:  
HECLA MINING COMPANY  
1225 UPPER VALLEY ROAD  
P. O. BOX 1861  
LOVELOCK NV 89419

HECLA MINING COMPANY  
1225 UPPER VALLEY ROAD  
P. O. BOX 1861  
LOVELOCK NV 89419

INVOICE TO:		TERMS NET 30 - DUE IN U.S. DOLLARS
CUSTOMER P.O. 95-350	PROJECT ROSEBUD	TERMS NET 30 - DUE IN U.S. DOLLARS
QUANTITY	DESCRIPTION	PRICE
46	SAMPLES RECEIVED	.00
46	JAW CRUSHING CHARGE	2.60
46	COARSE MILLING CHARGE	8.00
46	SPLITTING CHARGE	2.40
46	KEEGOR MILLING CHARGE	2.00
46	MIX/ROLL BLEND	1.20
46	RING MILLING CHARGE	2.00
46	Au (2 A.T. FIRE ASSAY)	10.25
46	HYDROCHLORIC/NITRIC DIGESTION	2.00
46	Ag ANALYSES	1.00

OK to pay  
7/15/95-411  
*Charles V. Marshall*

NET INVOICE: 1,446.70  
LESS DISCOUNT: 477.41  
FREIGHT: .00

INVOICE TOTAL: 969.29

PLEASE NOTE THAT WE HAVE CHANGED OUR REMIT TO  
MAILING ADDRESS.

AMERICAN ASSAY LABORATORIES  
ANALYSIS REPORT :

SPO35563



American  
Assay  
Laboratories

P.O. BOX 11530

RENO, NV., USA

Ph. 1-702-356-0606, Fax. 1-702-356-1413

Telex:

HECLA MINING CO.

COPIES TO : CHARLIE MUERHOFF

:

:

:

CLIENT REFERENCE No: 95-350

RECEIVED : 18 SEP 1995

No. SAMPLES : 46

REPORTED : 29 SEP 1995

MAIN SAMPLE TYPE : DRILL CORE

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au(OZ)	FA60	15%	OPT	0.001
Au(RZ)	FA60	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02



CLIENT : HECLA MINING CO.  
 PROJECT : ROSEBUD  
 REFERENCE : 95-350

REPORTED : 29 SEP 1995

SAMPLES	Au(OZ) FA60	Au(RZ) FA60	Ag(OZ) D210
	OPT	OPT	OPT
95-350 940-945	<0.001		<0.02
95-350 945-950.5	<0.001		<0.02
95-350 950.5-955.5	<0.001		<0.02
95-350 955.5-960	<0.001		<0.02
95-350 960-965	<0.001	<0.001	<0.02
95-350 965-970	<0.001		<0.02
95-350 970-975	<0.001		<0.02
95-350 975-980	<0.001		<0.02
95-350 980-985	<0.001		<0.02
95-350 985-990	<0.001		<0.02
95-350 990-995	<0.001		<0.02
95-350 995-1000	<0.001		<0.02
95-350 1000-1005	<0.001		<0.02
95-350 1005-1010	<0.001		<0.02
95-350 1010-1015	<0.001	<0.001	<0.02
95-350 1015-1020	<0.001		<0.02
95-350 1020-1025	<0.001		<0.02
95-350 1025-1030	<0.001		<0.02
95-350 1030-1035	<0.001		<0.02
95-350 1035-1040	<0.001		<0.02
95-350 1040-1045	<0.001		<0.02
95-350 1045-1050	<0.001		<0.02
95-350 1050-1055	<0.001		<0.02
95-350 1055-1060	<0.001		<0.02
95-350 1060-1065	<0.001		<0.02



CLIENT : HECLA MINING CO.  
 PROJECT : ROSEBUD  
 REFERENCE : 95-350

REPORTED : 29 SEP 1995

SAMPLES		Au(OZ) FA60	Au(RZ) FA60	Ag(OZ) D210
		OPT	OPT	OPT
95-350 1065-1070		<0.001		<0.02
95-350 1070-1075		<0.001		<0.02
95-350 1075-1080		<0.001		<0.02
95-350 1080-1085		<0.001		<0.02
95-350 1085-1090		<0.001	<0.001	<0.02
95-350 1090-1095		<0.001		<0.02
95-350 1095-1100		<0.001		<0.02
95-350 1100-1105		<0.001		<0.02
95-350 1105-1110		<0.001		<0.02
95-350 1110-1115		<0.001		<0.02
95-350 1115-1120		<0.001		<0.02
95-350 1120-1124		<0.001		<0.02
95-350 1124-1130		<0.001		<0.02
95-350 1130-1135		<0.001		<0.02
95-350 1135-1140		<0.001		<0.02
95-350 1140-1145		<0.001		<0.02
95-350 1145-1150		<0.001		<0.02
95-350 1150-1155		<0.001		<0.02
95-350 1155-1160		<0.001		<0.02
95-350 1160-1165		<0.001		<0.02
95-350 1165-1168		<0.001		<0.02



# INVOICE

\*\*\*\*\*CHANGE OF ADDRESS\*\*\*\*\*  
-----PLEASE REMIT TO  
-----P.O. BOX 11530  
-----RENO NV 89510-1530

AMERICAN ASSAY LABORATORIES  
1500 GLENDALE AVE.  
SPARKS, NV 89431

INVOICE NO: SP 0035483-IN  
INVOICE DATE: 09/26/95

(702) 356-0606

*For East Drilling*

INVOICE TO:  
HECLA MINING COMPANY  
1225 UPPER VALLEY ROAD  
P. O. BOX 1861  
LOVELOCK NV 89419

HECLA MINING COMPANY  
1225 UPPER VALLEY ROAD  
P. O. BOX 1861  
LOVELOCK NV 89419

CUSTOMER P.O.	PROJECT	TERMS	NET 30 - DUE IN U.S. DOLLARS	
QUANTITY	DESCRIPTION	PRICE	AMOUNT	
87	SAMPLES RECEIVED	.00	.00	
87	JAW CRUSHING CHARGE	1.30	113.10	
87	COARSE MILLING CHARGE	4.00	348.00	
87	SPLITTING CHARGE	1.80	156.60	
87	KEEGOR MILLING CHARGE	2.00	174.00	
87	MIX/ROLL BLEND	1.20	104.40	
87	RING MILLING CHARGE	2.00	174.00	
87	Au (2 A.T. FIRE ASSAY)	10.25	891.75	
87	HYDROCHLORIC/NITRIC DIGESTION	2.00	174.00	
87	Ag ANALYSES	1.00	87.00	

*OK to pay*

*716150-471*

*Charles V. Murchoff*

NET INVOICE: 2,222.85  
LESS DISCOUNT: 733.54  
FREIGHT: .00

INVOICE TOTAL: 1,489.31

PLEASE NOTE THAT WE HAVE CHANGED OUR REMIT TO  
MAILING ADDRESS.

AMERICAN ASSAY LABORATORIES

**ANALYSIS REPORT**

**SPO35483**



**American  
Assay  
Laboratories**

P.O. BOX 11530

RENO, NV., USA

Ph. 1-702-356-0606, Fax. 1-702-356-1413

Telex:

**HECLA MINING CO.**

COPIES TO : CHARLIE MUERHOFF

:

:

:

CLIENT REFERENCE No: 95-350

RECEIVED : 12 SEP 1995

No. SAMPLES : 87

REPORTED : 26 SEP 1995

MAIN SAMPLE TYPE : DRILL CORE

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au(OZ)	FA60	15%	OPT	0.001
Au(RZ)	FA60	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

AMERICAN ASSAY LABORATORIES  
ANALYSIS REPORT : SPO35483



American  
Assay  
Laboratories

CLIENT : HECLA MINING CO.  
PROJECT : ROSEBUD  
REFERENCE : 95-350

REPORTED : 26 SEP 1995

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	Ag(OZ) D210 OPT
95-350 535-540	<0.001		<0.02
95-350 540-545	<0.001		<0.02
95-350 545-550	<0.001		<0.02
95-350 550-555	<0.001		<0.02
95-350 555-560	<0.001		<0.02
95-350 560-562.2	<0.001	<0.001	<0.02
95-350 562.2-565.8	<0.001		0.05
95-350 565.8-570	<0.001		0.03
95-350 570-575	<0.001		0.02
95-350 575-579.1	<0.001		<0.02
95-350 579.1-585	<0.001		<0.02
95-350 585-590	<0.001		<0.02
95-350 590-595	<0.001		0.04
95-350 595-600	<0.001		0.04
95-350 600-605	<0.001		<0.02
95-350 605-610	<0.001	<0.001	<0.02
95-350 610-615	<0.001		<0.02
95-350 615-620	0.001		0.02
95-350 620-625	0.002		0.04
95-350 625-630	<0.001		<0.02
95-350 630-635	<0.001		0.02
95-350 635-640	<0.001		<0.02
95-350 640-645	<0.001		<0.02
95-350 645-650	<0.001	<0.001	0.02
95-350 650-655	<0.001		<0.02

AMERICAN ASSAY LABORATORIES  
ANALYSIS REPORT : SPO35483



American  
Assay  
Laboratories

CLIENT : HECLA MINING CO.  
PROJECT : ROSEBUD  
REFERENCE : 95-350

REPORTED : 26 SEP 1995

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	Ag(OZ) D210 OPT
95-350 655-660	<0.001		<0.02
95-350 660-661.7	<0.001		<0.02
95-350 661.7-665	<0.001		<0.02
95-350 665-670	<0.001		<0.02
95-350 670-675	<0.001		0.05
95-350 675-680	0.006	0.007	0.10
95-350 680-685	0.027		0.50
95-350 685-690	0.055	0.060	1.63
95-350 690-693.5	<0.001		0.04
95-350 693.5-695	<0.001		<0.02
95-350 695-700	<0.001		<0.02
95-350 700-705	<0.001		<0.02
95-350 705-710	<0.001		<0.02
95-350 710-715	<0.001		<0.02
95-350 715-720	<0.001	<0.001	<0.02
95-350 720-723	<0.001	<0.001	<0.02
95-350 723-725	<0.001		<0.02
95-350 725-730	<0.001		<0.02
95-350 730-735	<0.001		<0.02
95-350 735-739	<0.001		<0.02
95-350 739-745	<0.001		<0.02
95-350 745-750	<0.001		<0.02
95-350 750-755	<0.001		<0.02
95-350 755-760	<0.001		<0.02
95-350 760-765	<0.001	<0.001	<0.02

AMERICAN ASSAY LABORATORIES  
ANALYSIS REPORT :

SPO35483

American  
Assay  
Laboratories

CLIENT : HECLA MINING CO.  
PROJECT : ROSEBUD  
REFERENCE : 95-350

REPORTED : 26 SEP 1995

SAMPLES	Au(OZ) FA60	Au(RZ) FA60	Ag(OZ) D210
	OPT	OPT	OPT
95-350 765-770	<0.001		<0.02
95-350 770-773	<0.001		<0.02
95-350 773-775	<0.001		<0.02
95-350 775-780	<0.001		<0.02
95-350 780-785	<0.001		<0.02
95-350 785-790	<0.001		<0.02
95-350 790-791.3	<0.001		<0.02
95-350 791.3-795	<0.001		<0.02
95-350 795-800	<0.001		<0.02
95-350 800-805	<0.001		<0.02
95-350 805-810	<0.001		<0.02
95-350 810-815	<0.001		<0.02
95-350 815-820	<0.001		<0.02
95-350 820-825	<0.001		<0.02
95-350 825-830	<0.001		<0.02
95-350 830-835	<0.001		<0.02
95-350 835-840	<0.001		<0.02
95-350 840-845	<0.001		<0.02
95-350 845-850	<0.001		<0.02
95-350 850-855	<0.001		<0.02
95-350 855-860	<0.001		<0.02
95-350 860-865	<0.001		<0.02
95-350 865-870	<0.001		<0.02
95-350 870-875	<0.001		<0.02
95-350 875-880	<0.001		<0.02

AMERICAN ASSAY LABORATORIES  
ANALYSIS REPORT

SPO35483

American  
Assay  
Laboratories

CLIENT : HECLA MINING CO.  
PROJECT : ROSEBUD  
REFERENCE : 95-350

REPORTED : 26 SEP 1995

SAMPLES	Au(OZ)	Au(RZ)	Ag(OZ)
	FA60 OPT	FA60 OPT	D210 OPT
95-350 880-885	<0.001		<0.02
95-350 885-890	<0.001		<0.02
95-350 890-895	<0.001		<0.02
95-350 895-900	<0.001		<0.02
95-350 900-905	<0.001		<0.02
95-350 905-910	<0.001		<0.02
95-350 910-915	<0.001		<0.02
95-350 915-920	<0.001		<0.02
95-350 920-925	<0.001		<0.02
95-350 925-930	<0.001		<0.02
95-350 930-935	<0.001		<0.02
95-350 935-940	<0.001		<0.02



# INVOICE

\*\*\*\*\*CHANGE OF ADDRESS\*\*\*\*\*  
-----PLEASE REMIT TO  
-----P.O. BOX 11530  
-----RENO NV 89510-1530

AMERICAN ASSAY LABORATORIES  
1500 GLENDALE AVE.  
SPARKS, NV 89431

INVOICE NO: SP 0035312-IN  
INVOICE DATE: 09/11/95

(702) 356-0606

For East

INVOICE TO:  
HECLA MINING COMPANY  
1225 UPPER VALLEY ROAD  
P. O. BOX 1861  
LOVELOCK NV 89419

HECLA MINING COMPANY  
1225 UPPER VALLEY ROAD  
P. O. BOX 1861  
LOVELOCK NV 89419

CUSTOMER P.O.	PROJECT	TERMS	NET 30 - DUE IN U.S. DOLLARS	
QUANTITY	DESCRIPTION	PRICE	AMOUNT	
16	SAMPLES RECEIVED	.00		.00
16	JAW CRUSHING CHARGE	3.90		62.40
16	COARSE MILLING CHARGE	12.00		192.00
16	SPLITTING CHARGE	3.00		48.00
16	KEEGOR MILLING CHARGE	2.00		32.00
16	BLENDING CHARGE	1.00		16.00
16	RING MILLING CHARGE	2.00		32.00
16	Au (2 A.T. FIRE ASSAY)	10.25		164.00
16	HYDROCHLORIC/NITRIC DIGESTION	2.00		32.00
16	Ag ANALYSES	1.00		16.00

OK to pay

716150-477

Charles V. Mueckhoff

NET INVOICE: 594.40  
LESS DISCOUNT: 196.15  
FREIGHT: .00

INVOICE TOTAL:

398.25

PLEASE NOTE THAT WE HAVE CHANGED OUR REMIT TO  
MAILING ADDRESS.



P.O. BOX 11530  
RENO, NV., USA  
Ph. 1-702-356-0606, Fax. 1-702-356-1413  
Telex:

## HECLA MINING CO.

COPIES TO : CHARLIE MUERHOFF

:  
:  
:  
:

CLIENT REFERENCE No: 95-350

RECEIVED : 29 AUG 1995

No. SAMPLES : 16

REPORTED : 11 SEP 1995

MAIN SAMPLE TYPE : DRILL CORE

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au(OZ)	FA60	15%	OPT	0.001
Au(RZ)	FA60	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

AMERICAN ASSAY LABORATORIES  
ANALYSIS REPORT

SPO35312

American  
Assay  
Laboratories

CLIENT : HECLA MINING CO.  
PROJECT : ROSEBUD  
REFERENCE : 95-350

REPORTED : 11 SEP 1995

SAMPLES	Au(OZ)	Au(RZ)	Ag(OZ)
	FA60 OPT	FA60 OPT	D210 OPT
95-350 375-385	<0.001		0.02
95-350 385-395	<0.001		<0.02
95-350 395-405	<0.001		<0.02
95-350 405-415	<0.001		<0.02
95-350 415-425	<0.001		<0.02
95-350 425-435	<0.001		<0.02
95-350 435-445	<0.001	<0.001	<0.02
95-350 445-455	<0.001		<0.02
95-350 455-465	<0.001		<0.02
95-350 465-475	<0.001		<0.02
95-350 475-485	<0.001	<0.001	<0.02
95-350 485-495	<0.001		<0.02
95-350 495-505	<0.001		<0.02
95-350 505-515	<0.001		<0.02
95-350 515-525	<0.001		<0.02
95-350 525-535	<0.001		<0.02



# INVOICE

\*\*\*\*\*CHANGE OF ADDRESS\*\*\*\*\*  
-----PLEASE REMIT TO NV 89510-1530  
-----P.O. BOX 11530 702-356-0606  
-----RENO NV 89510-1530 702-356-1410

AMERICAN ASSAY LABORATORIES  
1500 GLENDALE AVE.  
SPARKS, NV 89431

INVOICE NO: SP 0035203-IN  
INVOICE DATE: 08/31/95

(702) 356-0606

Fev East

INVOICE TO:  
HECLA MINING COMPANY  
1225 UPPER VALLEY ROAD  
P. O. BOX 1861  
LOVELOCK NV 89419

HECLA MINING COMPANY  
1225 UPPER VALLEY ROAD  
P. O. BOX 1861  
LOVELOCK NV 89419

CUSTOMER P.O.	PROJECT	TERMS	
95-350	ROSEBUD	NET 30 - DUE IN U.S. DOLLARS	
3	SAMPLES RECEIVED	.00	.00
3	JAW CRUSHING CHARGE	1.30	3.90
3	COARSE MILLING CHARGE	4.00	12.00
3	SPLITTING CHARGE	1.80	5.40
3	KEEGOR MILLING CHARGE	2.00	6.00
3	BLENDING CHARGE	1.00	3.00
3	RING MILLING CHARGE	2.00	6.00
3	Au (2 A.T. FIRE ASSAY)	10.25	30.75
3	HYDROCHLORIC/NITRIC DIGESTION	2.00	6.00
3	Ag ANALYSES	1.00	3.00

ok to pay

716150-471

Charles V. Marshall

NET INVOICE: 76.05  
LESS DISCOUNT: 25.10  
FREIGHT: .00

INVOICE TOTAL:

50.95

PLEASE NOTE THAT WE HAVE CHANGED OUR REMIT TO  
MAILING ADDRESS.



## HECLA MINING CO.

COPIES TO : CHARLIE MUERHOFF

:  
:  
:  
:

CLIENT REFERENCE No: 95-350

RECEIVED : 21 AUG 1995

No. SAMPLES : 3

REPORTED : 31 AUG 1995

MAIN SAMPLE TYPE : DRILL CORE

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au(OZ)	FA60	15%	OPT	0.001
Au(RZ)	FA60	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

AMERICAN ASSAY LABORATORIES  
ANALYSIS REPORT

SPO35203



American  
Assay  
Laboratories

CLIENT : HECLA MINING CO.  
PROJECT : ROSEBUD  
REFERENCE : 95-350  
  
REPORTED : 31 AUG 1995

SAMPLES	Au(OZ)	Au(RZ)	Ag(OZ)
	FA60 OPT	FA60 OPT	D210 OPT
95-350 368-368.3	0.006	0.006	0.13
95-350 368.3-370	<0.001		<0.02
95-350 370-375	<0.001		<0.02



## INVOICE

Remit To: P.O. Box 71060  
Reno, NV 89570  
Phone No.: 702-356-0606  
Fax No.: 702-356-1413

AMERICAN ASSAY LABORATORIES  
1500 GLENDALE AVE.  
SPARKS, NV 89431

INVOICE NO: SP 0035189-IN  
INVOICE DATE: 09/08/95

(702) 356-0606

Far East

INVOICE TO:  
HECLA MINING COMPANY  
1225 UPPER VALLEY ROAD  
P. O. BOX 1861  
LOVELOCK NV 89419

HECLA MINING COMPANY  
1225 UPPER VALLEY ROAD  
P. O. BOX 1861  
LOVELOCK NV 89419

CUSTOMER P.O.	PROJECT	TERMS	NET 30 - DUE IN U.S. DOLLARS	
QUANTITY	DESCRIPTION	PRICE	AMOUNT	
75	SAMPLES RECEIVED	.00	.00	
75	JAW CRUSHING CHARGE	2.60	195.00	
75	COARSE MILLING CHARGE	8.00	600.00	
75	SPLITTING CHARGE	2.40	180.00	
75	KEEGOR MILLING CHARGE	2.00	150.00	
75	BLENDING CHARGE	1.00	75.00	
75	RING MILLING CHARGE	2.00	150.00	
75	Au (2 A.T. FIRE ASSAY)	10.25	768.75	
75	HYDROCHLORIC/NITRIC DIGESTION	2.00	150.00	
75	Ag ANALYSES	1.00	75.00	

OK to pay

716150-477

Charles Munkhoff

NET INVOICE: 2,343.75  
LESS DISCOUNT: 773.44  
FREIGHT: .00

INVOICE TOTAL:

1,570.31

PLEASE NOTE THAT WE HAVE CHANGED OUR REMIT TO  
MAILING ADDRESS.



P.O. BOX 11530  
RENO, NV., USA  
Ph. 1-702-356-0606, Fax. 1-702-356-1413  
Telex:

HECLA MINING CO.

COPIES TO : CHARLIE MUERHOFF

:  
:  
:  
:

CLIENT REFERENCE No: 95-350

RECEIVED : 21 AUG 1995

No. SAMPLES : 75

REPORTED : 8 SEP 1995

MAIN SAMPLE TYPE : DRILL CORE

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au(OZ)	FA60	15%	OPT	0.001
Au(RZ)	FA60	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02



CLIENT : HECLA MINING CO.  
PROJECT : ROSEBUD  
REFERENCE : 95-350

REPORTED : 8 SEP 1995

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	Ag(OZ) D210 OPT
95-350 33-35	<0.001		0.02
95-350 35-40	<0.001	<0.001	<0.02
95-350 40-45	<0.001		<0.02
95-350 45-50	<0.001		<0.02
95-350 50-55	<0.001		<0.02
95-350 55-60	<0.001		<0.02
95-350 60-65	<0.001		<0.02
95-350 65-70	<0.001		<0.02
95-350 70-75	<0.001		<0.02
95-350 75-80	<0.001		<0.02
95-350 80-85	<0.001		<0.02
95-350 85-90	<0.001	<0.001	0.02
95-350 90-95	<0.001		0.04
95-350 95-100	0.001		0.04
95-350 100-105	0.001		0.03
95-350 105-110	<0.001		0.02
95-350 110-115	<0.001		0.04
95-350 115-120	<0.001		0.02
95-350 120-125	0.001		0.02
95-350 125-130	<0.001		<0.02
95-350 130-135	<0.001		0.02
95-350 135-140	0.004		0.06
95-350 140-145	<0.001		0.03
95-350 145-150	<0.001		<0.02
95-350 150-155	<0.001		0.03



CLIENT : HECLA MINING CO.  
PROJECT : ROSEBUD  
REFERENCE : 95-350

REPORTED : 8 SEP 1995

SAMPLES	Au(OZ)	Au(RZ)	Ag(OZ)
	FA60 OPT	FA60 OPT	D210 OPT
95-350 33-35	<0.001		0.02
95-350 35-40	<0.001	<0.001	<0.02
95-350 40-45	<0.001		<0.02
95-350 45-50	<0.001		<0.02
95-350 50-55	<0.001		<0.02
95-350 55-60	<0.001		<0.02
95-350 60-65	<0.001		<0.02
95-350 65-70	<0.001		<0.02
95-350 70-75	<0.001		<0.02
95-350 75-80	<0.001		<0.02
95-350 80-85	<0.001		<0.02
95-350 85-90	<0.001	<0.001	0.02
95-350 90-95	<0.001		0.04
95-350 95-100	0.001		0.04
95-350 100-105	0.001		0.03
95-350 105-110	<0.001		0.02
95-350 110-115	<0.001		0.04
95-350 115-120	<0.001		0.02
95-350 120-125	0.001		0.02
95-350 125-130	<0.001		<0.02
95-350 130-135	<0.001		0.02
95-350 135-140	0.004		0.06
95-350 140-145	<0.001		0.03
95-350 145-150	<0.001		<0.02
95-350 150-155	<0.001		0.03

AMERICAN ASSAY LABORATORIES  
ANALYSIS REPORT

SPO35189

American  
Assay  
Laboratories

CLIENT : HECLA MINING CO.  
PROJECT : ROSEBUD  
REFERENCE : 95-350

REPORTED : 8 SEP 1995

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	Ag(OZ) D210 OPT
95-350 155-160	<0.001		<0.02
95-350 160-165	0.001		0.03
95-350 165-170	0.003		0.08
95-350 170-175	<0.001	<0.001	0.04
95-350 175-180	0.001		0.08
95-350 180-185	<0.001		0.04
95-350 185-190	0.002		0.07
95-350 190-195	0.005		0.09
95-350 195-199	0.002	0.002	0.08
95-350 199-199.6	0.011		0.11
95-350 199.6-205	0.008		0.15
95-350 205-210	0.004		0.08
95-350 210-215	0.001		0.04
95-350 215-220	0.001		0.03
95-350 220-225	<0.001		0.04
95-350 225-226.5	0.001	0.001	0.07
95-350 226.5-230	0.002		0.22
95-350 230-234	0.003		0.65
95-350 234-235	0.032		0.14
95-350 235-240	0.001		0.06
95-350 240-245	0.001		0.07
95-350 245-250	0.001		0.03
95-350 250-255	0.002		0.05
95-350 255-260	<0.001		0.02
95-350 260-265	0.002		0.04

AMERICAN ASSAY LABORATORIES  
ANALYSIS REPORT

SPO35189

American  
Assay  
Laboratories

CLIENT : HECLA MINING CO.  
PROJECT : ROSEBUD  
REFERENCE : 95-350

REPORTED : 8 SEP 1995

SAMPLES	Au(OZ) FA60	Au(RZ) FA60	Ag(OZ) D210
	OPT	OPT	OPT
95-350 265-270	<0.001		<0.02
95-350 270-275	0.005		0.09
95-350 275-280	0.002		0.10
95-350 280-285	<0.001		0.03
95-350 285-289.7	<0.001	<0.001	0.03
95-350 289.7-291.2	0.131		2.87
95-350 291.2-295	0.007		0.24
95-350 295-300	0.002		0.10
95-350 300-305	0.025		0.13
95-350 305-310	<0.001		0.02
95-350 310-315	<0.001		<0.02
95-350 315-320	<0.001	<0.001	0.05
95-350 320-325	0.001		0.04
95-350 325-330	0.001		0.03
95-350 330-334	<0.001		<0.02
95-350 334-338	0.002		0.10
95-350 338-340	<0.001		0.02
95-350 340-345	0.001	<0.001	0.03
95-350 345-350	0.001		0.02
95-350 350-355	<0.001		<0.02
95-350 355-360	<0.001		<0.02
95-350 360-365	<0.001		0.02
95-350 365-366.5	0.001		0.06
95-350 366.5-367.4	0.001		0.06
95-350 367.4-368	0.002	0.002	0.02



# American Assay Laboratories

# INVOICE

\*\*\*\*\*CHANGE OF ADDRESS\*\*\*\*\*  
-----PLEASE REMIT TO  
-----P.O. BOX 11530  
-----RENO NV 89510-1530

AMERICAN ASSAY LABORATORIES  
1500 GLENDALE AVE.  
SPARKS, NV 89431

INVOICE NO: SP 0035775-IN  
INVOICE DATE: 10/16/95

(702) 356-0606

INVOICE TO:  
HECLA MINING COMPANY  
1225 UPPER VALLEY ROAD  
P. O. BOX 1861  
LOVELOCK NV 89419

HECLA MINING COMPANY  
1225 UPPER VALLEY ROAD  
P. O. BOX 1861  
LOVELOCK NV 89419

CUSTOMER P.O.	PROJECT	TERMS	
95-348	ROSEBUD	NET 30 - DUE IN U.S. DOLLARS	
QUANTITY	DESCRIPTION	PRICE	AMOUNT
148	SAMPLES RECEIVED	.00	.00
148	JAW CRUSHING CHARGE	1.30	192.40
148	COARSE MILLING CHARGE	4.00	592.00
148	SPLITTING CHARGE	1.80	266.40
148	KEEGOR MILLING CHARGE	2.00	296.00
148	MIX/ROLL BLEND	1.20	177.60
148	RING MILLING CHARGE	2.00	296.00
148	Au (2 A.T. FIRE ASSAY)	10.25	1,517.00
148	HYDROCHLORIC/NITRIC DIGESTION	2.00	296.00
148	Ag ANALYSES	1.00	148.00

on to pay  
116150 - 411  
Charles V. Murchison

NET INVOICE:	3,781.40
LESS DISCOUNT:	1,247.86
FREIGHT:	.00

INVOICE TOTAL: 2,533.54

PLEASE NOTE THAT WE HAVE CHANGED OUR REMIT TO  
MAILING ADDRESS.

AMERICAN ASSAY LABORATORIES  
ANALYSIS REPORT

SPO35775



American  
Assay  
Laboratories

P.O. BOX 11530  
RENO, NV., USA  
Ph. 1-702-356-0606, Fax. 1-702-356-1413  
Telex:

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HECLA MINING CO.

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COPIES TO : CHARLIE MUERHOFF

:  
:  
:  
:

CLIENT REFERENCE No: 95-348

RECEIVED : 3 OCT 1995

No. SAMPLES : 148

REPORTED : 13 OCT 1995

MAIN SAMPLE TYPE : DRILL CORE

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ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au(OZ)	FA60	15%	OPT	0.001
Au(RZ)	FA60	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

---



CLIENT : HECLA MINING CO.  
 PROJECT : ROSEBUD  
 REFERENCE : 95-348

REPORTED : 13 OCT 1995

SAMPLES	Au(OZ) FA60	Au(RZ) FA60	Ag(OZ) D210
	OPT	OPT	OPT
95-348 28-32	<0.001		<0.02
95-348 32-37	<0.001		<0.02
95-348 37-42	<0.001		<0.02
95-348 42-47	<0.001		<0.02
95-348 47-52	<0.001	<0.001	<0.02
95-348 52-57	0.001		0.10
95-348 57-62	0.002		0.03
95-348 62-65.4	0.002		0.08
95-348 65.4-70.4	<0.001		0.07
95-348 70.4-73.5	<0.001		0.07
95-348 73.5-74.7	<0.001		0.07
95-348 74.7-77.7	<0.001		0.06
95-348 77.7-80.7	<0.001		0.20
95-348 80.7-84.7	<0.001	<0.001	0.04
95-348 84.7-88	0.009		0.43
95-348 88-91	<0.001		0.02
95-348 91-96	0.001		0.05
95-348 96-101.7	0.001		0.03
95-348 101.7-106	0.001		0.05
95-348 106-109.7	0.001		0.07
95-348 109.7-111.1	0.006	0.007	0.39
95-348 111.1-116	0.002		0.12
95-348 116-121	0.001		0.24
95-348 121-126	0.001		0.04
95-348 126-127	<0.001		0.06

CLIENT : HECLA MINING CO.  
 PROJECT : ROSEBUD  
 REFERENCE : 95-348

REPORTED : 13 OCT 1995



SAMPLES		Au(OZ) FA60	Au(RZ) FA60	Ag(OZ) D210
		OPT	OPT	OPT
95-348 127-129.6		0.011		1.03
95-348 129.6-133.4		0.004		0.13
95-348 133.4-137.4		0.001		0.05
95-348 137.4-140.5		<0.001	<0.001	0.04
95-348 140.5-144.4		<0.001		<0.02
95-348 144.4-145		<0.001		<0.02
95-348 145-150		<0.001		<0.02
95-348 150-155		<0.001		<0.02
95-348 155-157		<0.001		<0.02
95-348 157-162		<0.001		<0.02
95-348 162-167		<0.001	<0.001	<0.02
95-348 167-172		0.008		0.09
95-348 172-176.3		0.006		0.06
95-348 176.3-181		<0.001		0.03
95-348 181-186		<0.001		0.02
95-348 186-191		<0.001		<0.02
95-348 191-195		<0.001	<0.001	<0.02
95-348 195-198.2		<0.001		<0.02
95-348 198.2-202		<0.001		<0.02
95-348 202-204		<0.001		0.05
95-348 204-208.8		0.001		0.06
95-348 208.8-214		0.006		0.22
95-348 214-216.7		0.005		0.20
95-348 216.7-220		0.006		0.54
95-348 220-223		<0.001		0.03



CLIENT : HECLLA MINING CO.  
 PROJECT : ROSEBUD  
 REFERENCE : 95-348

REPORTED : 13 OCT 1995

SAMPLES	Au(OZ)	Au(RZ)	Ag(OZ)
	FA60 OPT	FA60 OPT	D210 OPT
95-348 223-232	<0.001		0.05
95-348 232-237	<0.001		0.03
95-348 237-239.5	0.004		0.13
95-348 239.5-242	0.002	0.002	0.11
35-348 242-247	<0.001		0.11
35-348 248-252	0.006		1.21
35-348 252-257	0.003		0.17
35-348 257-260	0.005		0.24
35-348 260-261	0.006		0.39
35-348 261-266	0.005		0.10
35-348 266-270	0.013		0.41
35-348 270-275	<0.001	<0.001	0.03
35-348 275-280.5	0.006		0.13
35-348 280.5-282.9	<0.001		<0.02
35-348 282.9-287	0.005		0.09
35-348 287-289	<0.001		0.04
35-348 289-289.5	0.001	0.001	0.03
35-348 289.5-294	<0.001		<0.02
35-348 294-299	<0.001		<0.02
35-348 299-304	<0.001		<0.02
35-348 304-308	<0.001		<0.02
35-348 308-312	<0.001		<0.02
35-348 312-316.1	<0.001		0.02
35-348 316.1-317.4	<0.001		0.02
35-348 317.4-321.6	<0.001		0.03

AMERICAN ASSAY LABORATORIES  
ANALYSIS REPORT

SPO35775

American  
Assay  
Laboratories

CLIENT : HECLA MINING CO.  
PROJECT : ROSEBUD  
REFERENCE : 95-348  
REPORTED : 13 OCT 1995

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	Ag(OZ) D210 OPT
35-348 321.6-322.6	0.001	0.001	0.04
35-348 322.6-327	0.002		0.05
35-348 327-328.7	<0.001		<0.02
35-348 328.7-334.7	<0.001		<0.02
35-348 334.7-336.2	<0.001		0.02
35-348 336.2-337	<0.001		0.02
35-348 337-338.2	<0.001		<0.02
35-348 338.2-339.7	<0.001		<0.02
35-348 339.7-345.2	<0.001		<0.02
35-348 345.2-350	<0.001		<0.02
35-348 350-355.4	<0.001		<0.02
35-348 355.4-359	0.002		0.02
35-348 359-364	0.002		0.06
35-348 364-369	<0.001		0.02
35-348 369-373	<0.001		<0.02
35-348 373-375.5	<0.001		<0.02
35-348 375.5-380	<0.001		<0.02
35-348 380.5-385.5	0.001		0.03
35-348 385.5-388	<0.001		<0.02
35-348 388.8-393	<0.001		<0.02
35-348 393-395.6	<0.001		<0.02
35-348 395.6-399	<0.001	<0.001	<0.02
35-348 399-402.8	0.009		0.12
35-348 402.8-406.3	0.001		0.03
35-348 406.3-411	<0.001		<0.02

AMERICAN ASSAY LABORATORIES  
ANALYSIS REPORT : SPO35775



American  
Assay  
Laboratories

CLIENT : HECLA MINING CO.  
PROJECT : ROSEBUD  
REFERENCE : 95-348  
REPORTED : 13 OCT 1995

SAMPLES		Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	Ag(OZ) D210 OPT
35-348 411-416		<0.001	<0.001	<0.02
35-348 416-419.4		<0.001		<0.02
35-348 419.4-424.4		0.001		<0.02
35-348 424.4-428.4		0.003		0.03
35-348 428.4-432		0.005		0.17
35-348 432-435.2		0.046		0.35
35-348 435.2-440		0.003		0.06
35-348 440-444		0.009		0.07
35-348 444-448		<0.001	<0.001	<0.02
35-348 448-453		<0.001		<0.02
35-348 453-458		<0.001		<0.02
35-348 458-463		<0.001		<0.02
35-348 463-466.3		<0.001		<0.02
35-348 466.3-468		<0.001		<0.02
35-348 468-470		<0.001		0.03
35-348 470-474		<0.001		0.04
35-348 474-476.1		<0.001		0.02
35-348 476.1-480		<0.001		0.03
35-348 480-484.5		0.001		0.05
35-348 484.5-490		0.002		0.07
35-348 490-494.7		0.006	0.006	0.15
35-348 494.7-496		0.017	0.019	0.53
35-348 496-498		<0.001		0.02
35-348 498-502		<0.001		<0.02
35-348 502-505.2		<0.001		<0.02

## AMERICAN ASSAY LABORATORIES

## ANALYSIS REPORT :

SPO35775

CLIENT : HECLA MINING CO.  
 PROJECT : ROSEBUD  
 REFERENCE : 95-348

REPORTED : 13 OCT 1995



American  
Assay  
Laboratories

SAMPLES		Au(OZ)	Au(RZ)	Ag(OZ)
		FA60 OPT	FA60 OPT	D210 OPT
35-348 505.2-510.2		<0.001	<0.001	<0.02
35-348 510.2-512.8		<0.001		<0.02
35-348 512.8-517.8		<0.001		<0.02
35-348 517.8-522.8		0.001		<0.02
35-348 522.8-525.3		0.002		0.04
35-348 525.3-528.5		<0.001		<0.02
35-348 528.5-532		<0.001		0.03
35-348 532-535		0.013		0.08
35-348 535-538.3		<0.001		0.06
35-348 538.3-542		<0.001		0.03
35-348 542-547		<0.001		0.03
35-348 547-552		0.005	0.006	0.04
35-348 552-555.9		0.002		0.03
35-348 555.9-561		0.002		0.02
35-348 561-566		<0.001		0.20
35-348 566-571		<0.001		<0.02
35-348 571-575.9		<0.001		<0.02
35-348 575.9-581		<0.001		<0.02
35-348 581-584.5		<0.001		<0.02
35-348 584.5-589		<0.001		<0.02
35-348 589-592		0.007		<0.02
35-348 592-597		0.001		0.03
35-348 597-602		<0.001		0.02



AMERICAN ASSAY LABORATORIES  
1500 GLENDALE AVE.  
SPARKS, NV 89431

# INVOICE

\*\*\*\*\*CHANGE OF ADDRESS\*\*\*\*\*  
-----PLEASE REMIT TO  
-----P.O. BOX 11530  
-----RENO NV 89510-1530

INVOICE NO: SP 0035888-IN  
INVOICE DATE: 10/24/95

(702) 356-0606

INVOICE TO:  
HECLA MINING COMPANY  
1225 UPPER VALLEY ROAD  
P. O. BOX 1861  
LOVELOCK NV 89419

HECLA MINING COMPANY  
1225 UPPER VALLEY ROAD  
P. O. BOX 1861  
LOVELOCK NV 89419

CUSTOMER P.O.	PROJECT	TERMS	NET 30 - DUE IN U.S. DOLLARS	
QUANTITY	DESCRIPTION	PRICE	AMOUNT	
39	SAMPLES RECEIVED	.00	.00	
39	JAW CRUSHING CHARGE	1.30	50.70	
39	COARSE MILLING CHARGE	4.00	156.00	
39	SPLITTING CHARGE	1.80	70.20	
39	KEEGOR MILLING CHARGE	2.00	78.00	
39	MIX/ROLL BLEND	1.20	46.80	
39	RING MILLING CHARGE	2.00	78.00	
39	Au (2 A.T. FIRE ASSAY)	10.25	399.75	
39	HYDROCHLORIC/NITRIC DIGESTION	2.00	78.00	
39	Ag ANALYSES	1.00	39.00	

On to pay  
716150-477

Charles V. Muehoff

NET INVOICE: 996.45  
LESS DISCOUNT: 328.83  
FREIGHT: .00

INVOICE TOTAL: 667.62

PLEASE NOTE THAT WE HAVE CHANGED OUR REMIT TO  
MAILING ADDRESS.

AMERICAN ASSAY LABORATORIES  
ANALYSIS REPORT : SP035888



American  
Assay  
Laboratories

P.O. BOX 11530  
RENO, NV., USA  
Ph.1-702-356-0606, Fax.1-702-356-1413  
Telex:

---

HECLA MINING CO.

---

COPIES TO : CHARLIE MUERHOFF

CLIENT REFERENCE No: 95-348

RECEIVED : 9 OCT 1995

No. SAMPLES : 39

REPORTED : 24 OCT 1995

MAIN SAMPLE TYPE : DRILL CORE

---

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au(OZ)	FA60	15%	OPT	0.001
Au(RZ)	FA60	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

---



CLIENT : HECLA MINING CO.  
 PROJECT : ROSEBUD  
 REFERENCE : 95-348  
 REPORTED : 24 OCT 1995

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	Ag(OZ) D210 OPT
95-348 602-607	<0.001		<0.02
95-348 607-612	<0.001		<0.02
95-348 612-617	<0.001		<0.02
95-348 617-620.3	<0.001		<0.02
95-348 620.3-622.6	0.001		<0.02
95-348 622.6-627.7	<0.001	<0.001	<0.02
95-348 627.7-629.7	<0.001		<0.02
95-348 629.7-634.2	0.001		0.02
95-348 634.2-639.7	<0.001		0.02
95-348 639.7-641.7	<0.001		<0.02
95-348 641.7-643.5	<0.001		<0.02
95-348 643.5-648.5	<0.001		0.02
95-348 648.5-653	<0.001	<0.001	0.02
95-348 653-654	0.057		0.11
95-348 654-659	0.001		0.03
95-348 659-664	0.001		0.02
95-348 664-669	<0.001		<0.02
95-348 669-674.5	<0.001	<0.001	<0.02
95-348 674.5-679.2	0.004		0.03
95-348 679.2-680.4	0.001		0.03
95-348 680.4-685.5	0.001		0.04
95-348 685.5-689.5	0.002		0.03
95-348 689.5-694.1	0.001		0.03
95-348 694.1-699.5	0.001		0.02
95-348 699.5-702.5	0.024		0.05

AMERICAN ASSAY LABORATORIES  
ANALYSIS REPORT

SPO35888

American  
Assay  
Laboratories

CLIENT : HECLA MINING CO.  
PROJECT : ROSEBUD  
REFERENCE : 95-348  
REPORTED : 24 OCT 1995

SAMPLES	Au(OZ)	Au(RZ)	Ag(OZ)
	FA60 OPT	FA60 OPT	D210 OPT
95-348 702.5-706.1	0.001		0.03
95-348 706.1-709	<0.001		0.02
95-348 709-714	<0.001		0.02
95-348 714-719	<0.001		0.02
95-348 719-722.8	0.002		0.05
95-348 722.8-727.8	0.001		0.04
95-348 727.8-731.9	0.001		<0.02
95-348 731.9-736.9	0.001	0.001	0.03
95-348 736.9-741	0.001		0.04
95-348 741-745.1	<0.001		0.03
95-348 745.1-750	<0.001		<0.02
95-348 750-755	<0.001		<0.02
95-348 755-760	<0.001	<0.001	<0.02
95-348 760-764	0.003		<0.02



# INVOICE

\*\*\*\*\*CHANGE OF ADDRESS\*\*\*\*\*  
-----PLEASE REMIT TO  
-----P.O. BOX 11530  
-----RENO NV 89510-1530

AMERICAN ASSAY LABORATORIES  
1500 GLENDALE AVE.  
SPARKS, NV 89431

INVOICE NO: SP 0036053-IN  
INVOICE DATE: 10/26/95

(702) 356-0606

INVOICE TO:  
HECLA MINING COMPANY  
1225 UPPER VALLEY ROAD  
P. O. BOX 1861  
LOVELOCK NV 89419

HECLA MINING COMPANY  
1225 UPPER VALLEY ROAD  
P. O. BOX 1861  
LOVELOCK NV 89419

CUSTOMER P.O.	PROJECT	TERMS	NET 30 - DUE IN U.S. DOLLARS	
QUANTITY	DESCRIPTION	PRICE	AMOUNT	
103	SAMPLES RECEIVED	.00	.00	
103	JAW CRUSHING CHARGE	2.60	267.80	
103	COARSE MILLING CHARGE	8.00	824.00	
103	SPLITTING CHARGE	2.40	247.20	
103	KEEGOR MILLING CHARGE	2.00	206.00	
103	MIX/ROLL BLEND	1.20	123.60	
103	RING MILLING CHARGE	2.00	206.00	
103	Au (2 A.T. FIRE ASSAY)	10.25	1,055.75	
103	HYDROCHLORIC/NITRIC DIGESTION	2.00	206.00	
103	Ag ANALYSES	1.00	103.00	

OK to pay  
7/16/95 - 4/1  
Charles Murchison

NET INVOICE: 3,239.35  
LESS DISCOUNT: 1,068.99  
FREIGHT: .00

INVOICE TOTAL: 2,170.36

PLEASE NOTE THAT WE HAVE CHANGED OUR REMIT TO  
MAILING ADDRESS.

AMERICAN ASSAY LABORATORIES  
ANALYSIS REPORT

SP036053



American  
Assay  
Laboratories

P.O. BOX 11530  
RENO, NV., USA  
Ph.1-702-356-0606, Fax.1-702-356-1413  
Telex:

---

HECLA MINING CO.

---

COPIES TO : CHARLIE MUERHOFF

:  
:  
:  
:

CLIENT REFERENCE No: 95-347

RECEIVED : 18 OCT 1995

No. SAMPLES : 103

REPORTED : 26 OCT 1995

MAIN SAMPLE TYPE : DRILL CORE

---

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au(OZ)	FA60	15%	OPT	0.001
Au(RZ)	FA60	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

---

AMERICAN ASSAY LABORATORIES

## ANALYSIS REPORT :

SPO36053


**American  
Assay  
Laboratories**

CLIENT : HECLA MINING CO.

PROJECT : ROSEBUD

REFERENCE : 95-347

REPORTED : 26 OCT 1995

SAMPLES		Au(OZ)	Au(RZ)	Ag(OZ)
		FA60 OPT	FA60 OPT	D210 OPT
95-347	184.7-190.8	<0.001		0.04
95-347	190.8-192.2	0.011		0.14
95-347	192.2-193.5	0.036		0.64
95-347	193.5-196.2	0.004	0.003	0.15
95-347	196.2-199.8	0.002		0.10
95-347	199.8-203.2	<0.001		<0.02
95-347	203.2-205.2	<0.001		0.02
95-347	205.2-209.8	0.002		0.04
95-347	209.8-212.6	0.001		0.04
95-347	212.6-215.8	0.004		0.08
95-347	215.8-220	0.017		0.22
95-347	220-225	0.015		1.00
95-347	225-231.5	0.005		0.20
95-347	231.5-236.5	0.022		0.13
95-347	236.5-241.5	0.021		0.31
95-347	241.5-245.2	0.012		0.86
95-347	245.2-250.8	0.005	0.005	0.20
95-347	250.8-255	0.001		0.07
95-347	255-259.5	0.003		0.13
95-347	259.5-263	0.082		0.06
95-347	263-266	0.003		0.02
95-347	266-270	<0.001		<0.02
95-347	270-274	<0.001		0.02
95-347	274-276.5	<0.001		<0.02
95-347	276.5-281	<0.001		<0.02



CLIENT : HECLA MINING CO.  
 PROJECT : ROSEBUD  
 REFERENCE : 95-347

REPORTED : 26 OCT 1995

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	Ag(OZ) D210 OPT
95-347 281-286.1	<0.001		0.02
95-347 286.1-290	<0.001		0.02
95-347 290-294.5	0.002		<0.02
95-347 294.5-298.7	<0.001		0.02
95-347 298.7-300	0.007		0.10
95-347 300-303.6	0.001		0.04
95-347 303.6-307	<0.001	<0.001	0.04
95-347 307-312.5	<0.001		0.02
95-347 312.5-317.1	<0.001		<0.02
95-347 317.1-320.1	<0.001		0.03
95-347 320.1-324	<0.001		<0.02
95-347 324-329	0.001		0.02
95-347 329-334	0.013		0.10
95-347 334-337	0.002		0.07
95-347 337-340	0.001		0.10
95-347 340-342	0.039	0.040	0.18
95-347 342-348.5	0.008		0.07
95-347 348.5-353.2	<0.001		<0.02
95-347 353.2-356.2	<0.001		0.02
95-347 356.2-359.5	<0.001		<0.02
95-347 359.5-362	0.005		0.10
95-347 362-364.5	<0.001		<0.02
95-347 364.5-368.6	0.003		0.10
95-347 368.6-369.6	0.017		0.41
95-347 369.6-372.5	0.011		0.31

AMERICAN ASSAY LABORATORIES

## ANALYSIS REPORT :

SP036053


**American  
Assay  
Laboratories**

CLIENT : HECLA MINING CO.  
 PROJECT : ROSEBUD  
 REFERENCE : 95-347

REPORTED : 26 OCT 1995

SAMPLES		Au(OZ)	Au(RZ)	Ag(OZ)
		FA60 OPT	FA60 OPT	D210 OPT
95-347	372.5-376.4	<0.001	<0.001	0.02
95-347	376.4-380.5	<0.001		<0.02
95-347	380.5-384.1	0.010		0.05
95-347	384.1-388	0.014		0.52
95-347	388-393.2	0.002		<0.02
95-347	393.2-396.7	<0.001		0.04
95-347	396.7-401.7	0.001		<0.02
95-347	401.7-406.7	0.004		0.03
95-347	406.7-411.7	<0.001		0.09
95-347	411.7-415	<0.001	<0.001	<0.02
95-347	415-418	<0.001		<0.02
95-347	418-421.8	<0.001		<0.02
95-347	421.8-427.4	0.004		0.03
95-347	427.4-431.7	<0.001		0.34
95-347	431.7-436.7	0.001		<0.02
95-347	436.7-440.6	0.001		0.04
95-347	440.6-446	<0.001		0.06
95-347	446-451	<0.001		<0.02
95-347	451-456	<0.001		<0.02
95-347	456-457.8	<0.001		<0.02
95-347	457.8-459.5	<0.001		<0.02
95-347	459.5-459.9	0.004		0.33
95-347	459.9-461.8	0.001	0.001	0.03
95-347	461.8-466.7	<0.001		0.02
95-347	466.7-471.2	<0.001		<0.02

AMERICAN ASSAY LABORATORIES  
ANALYSIS REPORT : SPO36053



American  
Assay  
Laboratories

CLIENT : HECLA MINING CO.  
PROJECT : ROSEBUD  
REFERENCE : 95-347

REPORTED : 26 OCT 1995

SAMPLES		Au(OZ)	Au(RZ)	Ag(OZ)
		FA60 OPT	FA60 OPT	D210 OPT
95-347	471.2-475.2	<0.001		<0.02
95-347	475.2-481	<0.001		0.03
95-347	481-482.9	<0.001		0.06
95-347	482.9-487.9	0.006		0.05
95-347	487.9-492.8	0.005		0.03
95-347	492.8-497.8	0.001		0.03
95-347	497.8-502.8	0.001		0.05
95-347	502.8-508	0.001		0.03
95-347	508-510.7	<0.001		0.03
95-347	510.7-514	0.001		0.02
95-347	514-518.5	<0.001		0.04
95-347	518.5-523.5	0.012		0.03
95-347	523.5-528.8	<0.001		<0.02
95-347	528.8-533.8	0.004	0.003	0.04
95-347	533.8-539	0.002		0.03
95-347	539-544	0.008		0.03
95-347	544-549	0.003		0.03
95-347	549-554	0.002		0.03
95-347	554-559	0.004		0.04
95-347	559-564	0.002		0.04
95-347	564-569	0.001		0.04
95-347	569-574	0.006		0.04
95-347	574-579	0.009		0.06
95-347	579-583	0.002	0.002	0.03
95-347	583-588	0.010		0.04

AMERICAN ASSAY LABORATORIES

**ANALYSIS REPORT :**

SP036053



**American  
Assay  
Laboratories**

CLIENT : HECLA MINING CO.  
PROJECT : ROSEBUD  
REFERENCE : 95-347

REPORTED : 26 OCT 1995

SAMPLES	Au(OZ)	Au(RZ)	Ag(OZ)
	FA60 OPT	FA60 OPT	D210 OPT
95-347 588-591	0.004	0.004	0.04
95-347 591-595	0.007		0.07
95-347 595-598	0.003		0.06



## INVOICE

Remit To: P.O. Box 71060  
Reno, NV 89570  
Phone No.: 702-356-0606  
Fax No.: 702-356-1413

AMERICAN ASSAY LABORATORIES  
1500 GLENDALE AVE.  
SPARKS, NV 89431

INVOICE NO: SP 0035562-IN  
INVOICE DATE: 09/29/95

(702) 356-0606

Fax Eas<sup>t</sup>

INVOICE TO:  
HECLA MINING COMPANY  
1225 UPPER VALLEY ROAD  
P. O. BOX 1861  
LOVELOCK NV 89419

HECLA MINING COMPANY  
1225 UPPER VALLEY ROAD  
P. O. BOX 1861  
LOVELOCK NV 89419

CUSTOMER P.O.	PROJECT	TERMS		
95-346	ROSEBUD	NET 30 - DUE IN U.S. DOLLARS		
QUANTITY	DESCRIPTION	PRICE	AMOUNT	
110	SAMPLES RECEIVED	.00	.00	
110	JAW CRUSHING CHARGE	2.60	286.00	
110	COARSE MILLING CHARGE	8.00	880.00	
110	SPLITTING CHARGE	2.40	264.00	
110	KEEGOR MILLING CHARGE	2.00	220.00	
110	MIX/ROLL BLEND	1.20	132.00	
110	RING MILLING CHARGE	2.00	220.00	
110	Au (2 A.T. FIRE ASSAY)	10.25	1,127.50	
110	HYDROCHLORIC/NITRIC DIGESTION	2.00	220.00	
110	Ag ANALYSES	1.00	110.00	
2	Ag (ore grade) ANALYSES	5.00	10.00	

On to pay  
716150-411  
Charles V. Murchison

NET INVOICE: 3,469.50  
LESS DISCOUNT: 1,144.94  
FREIGHT: .00

INVOICE TOTAL: 2,324.56

PLEASE NOTE THAT WE HAVE CHANGED OUR REMIT TO  
MAILING ADDRESS.

P.O. BOX 11530  
RENO, NV., USA  
Ph.1-702-356-0606, Fax.1-702-356-1413  
Telex:

## HECLA MINING CO.

COPIES TO : CHARLIE MUERHOFF

:  
:  
:  
:

CLIENT REFERENCE No: 95-346

RECEIVED : 18 SEP 1995

No. SAMPLES : 110

REPORTED : 29 SEP 1995

MAIN SAMPLE TYPE : DRILL CORE

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au(OZ)	FA60	15%	OPT	0.001
Au(RZ)	FA60	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

AMERICAN ASSAY LABORATORIES  
ANALYSIS REPORT : SPO35562



American  
Assay  
Laboratories

CLIENT : HECLA MINING CO.  
PROJECT : ROSEBUD  
REFERENCE : 95-346

REPORTED : 29 SEP 1995

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	Ag(OZ) D210 OPT
95-346 29-30	<0.001		<0.02
95-346 30-35	<0.001		<0.02
95-346 35-40	<0.001		<0.02
95-346 40-45	<0.001		<0.02
95-346 45-50.5	<0.001		<0.02
95-346 50.5-55	<0.001		<0.02
95-346 55-60	<0.001	<0.001	<0.02
95-346 60-65	0.002		<0.02
95-346 65-70	0.001		<0.02
95-346 70-75	0.001		<0.02
95-346 75-80	<0.001		0.02
95-346 80-85	<0.001		<0.02
95-346 85-90	<0.001		<0.02
95-346 90-93.5	<0.001		<0.02
95-346 93.5-95	<0.001		<0.02
95-346 95-100	<0.001		<0.02
95-346 100-105	<0.001		<0.02
95-346 105-110	<0.001		<0.02
95-346 110-115	<0.001		<0.02
95-346 115-117.2	<0.001		<0.02
95-346 117.2-119.5	<0.001	<0.001	<0.02
95-346 119.5-125	<0.001		<0.02
95-346 125-130	<0.001		<0.02
95-346 130-135	<0.001		<0.02
95-346 135-140	0.002		0.04

AMERICAN ASSAY LABORATORIES

**ANALYSIS REPORT :**

SP035562


**American  
Assay  
Laboratories**

CLIENT : HECLA MINING CO.  
 PROJECT : ROSEBUD  
 REFERENCE : 95-346

REPORTED : 29 SEP 1995

SAMPLES		Au(OZ)	Au(RZ)	Ag(OZ)
		FA60 OPT	FA60 OPT	D210 OPT
95-346 140-145		0.001		0.03
95-346 145-147		<0.001		<0.02
95-346 147-150		0.001		0.14
95-346 150-155		0.002		0.08
95-346 155-156.2		<0.001		0.02
95-346 156.2-160		<0.001		<0.02
95-346 160-165		<0.001	<0.001	0.03
95-346 165-170		<0.001		<0.02
95-346 170-175		<0.001		<0.02
95-346 175-180		<0.001		<0.02
95-346 180-181		0.002		0.13
95-346 181-185		<0.001		0.04
95-346 185-190		0.004		0.05
95-346 190-195		0.001	0.001	0.05
95-346 195-200		0.002		0.04
95-346 200-205		<0.001	<0.001	0.02
95-346 205-210		0.001		0.02
95-346 210-212.2		0.002		0.04
95-346 212.2-213.5		<0.001		<0.02
95-346 213.5-219		0.011		0.05
95-346 219-220		<0.001		<0.02
95-346 220-225		<0.001		<0.02
95-346 225-229		<0.001		<0.02
95-346 229-230		0.005		0.02
95-346 230-235		0.047		0.27

AMERICAN ASSAY LABORATORIES  
ANALYSIS REPORT :

SPO35562

American  
Assay  
Laboratories

CLIENT : HECLA MINING CO.  
 PROJECT : ROSEBUD  
 REFERENCE : 95-346

REPORTED : 29 SEP 1995

SAMPLES		Au(OZ) FA60	Au(RZ) FA60	Ag(OZ) D210
		OPT	OPT	OPT
95-346 235-240.5		0.005		0.05
95-346 240.5-245		<0.001		<0.02
95-346 245-250		<0.001		<0.02
95-346 250-255		0.005		<0.02
95-346 255-259.5		<0.001		0.02
95-346 259.5-264		<0.001		<0.02
95-346 264-266		<0.001		<0.02
95-346 266-270		<0.001		<0.02
95-346 270-274		<0.001		<0.02
95-346 274-275.5		0.014		0.07
95-346 275.5-280		0.001		0.02
95-346 280-284.5		<0.001		<0.02
95-346 284.5-289		0.004		0.21
95-346 289-293		0.001		0.05
95-346 293-294.5		0.076		7.35
95-346 294.5-300		<0.001		0.05
95-346 300-305		<0.001		<0.02
95-346 305-310		0.004		0.09
95-346 310-315		0.001	0.001	0.04
95-346 315-320		<0.001		<0.02
95-346 320-323.5		0.001		0.09
95-346 323.5-325		0.005		0.05
95-346 325-330		<0.001		0.02
95-346 330-335		0.009		0.12
95-346 335-336		0.007		0.28



CLIENT : HECLA MINING CO.  
 PROJECT : ROSEBUD  
 REFERENCE : 95-346

REPORTED : 29 SEP 1995

SAMPLES		Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	Ag(OZ) D210 OPT
95-346 336-337.5		0.061		6.39
95-346 337.5-340		0.004		0.19
95-346 340-345		0.031		0.62
95-346 345-350		0.004		0.05
95-346 350-352		0.004		0.07
95-346 352-355		0.004		0.10
95-346 355-360		0.015		0.26
95-346 360-362		<0.001		0.03
95-346 362-365.5		<0.001		<0.02
95-346 365.5-370		<0.001		<0.02
95-346 370-375		<0.001		0.04
95-346 375-380		<0.001		<0.02
95-346 380-382.5		<0.001		<0.02
95-346 382.5-386		<0.001	<0.001	<0.02
95-346 386-390		<0.001		<0.02
95-346 390-391.7		<0.001	<0.001	<0.02
95-346 391.7-395		0.003		0.02
95-346 395-400		<0.001		<0.02
95-346 400-403		<0.001		0.02
95-346 403-405		<0.001		<0.02
95-346 405-410		<0.001		<0.02
95-346 410-415		<0.001		<0.02
95-346 415-420		0.004		0.07
95-346 420-425		0.001		0.04
95-346 425-430		0.004		0.05

AMERICAN ASSAY LABORATORIES  
ANALYSIS REPORT : SPO35562



American  
Assay  
Laboratories

CLIENT : HECLA MINING CO.  
PROJECT : ROSEBUD  
REFERENCE : 95-346  
  
REPORTED : 29 SEP 1995

SAMPLES		Au(OZ) FA60	Au(RZ) FA60	Ag(OZ) D210
		OPT	OPT	OPT
95-346	430-435.5	0.003		0.06
95-346	435.5-440	<0.001		<0.02
95-346	440-445	<0.001		<0.02
95-346	445-450	<0.001		<0.02
95-346	450-452	<0.001		<0.02
95-346	452-456	<0.001		0.02
95-346	456-458	<0.001		<0.02
95-346	458-460	<0.001		0.06
95-346	460-465	0.001		0.04
95-346	465-467	<0.001		<0.02



# INVOICE

Remit To: P.O. Box 71060  
Reno, NV 89570  
Phone No.: 702-356-0606  
Fax No.: 702-356-1413

AMERICAN ASSAY LABORATORIES  
1500 GLENDALE AVE.  
SPARKS, NV 89431

INVOICE NO: SP 0035684-IN  
INVOICE DATE: 10/06/95

(702) 356-0606

INVOICE TO:	HECLA MINING COMPANY	HECLA MINING COMPANY
	1225 UPPER VALLEY ROAD	1225 UPPER VALLEY ROAD
	P. O. BOX 1861	P. O. BOX 1861
LOVELOCK	NV 89419	LOVELOCK NV 89419

CUSTOMER P.O. 95-346	PROJECT ROSEBUD	TERMS NET 30 - DUE IN U.S. DOLLARS	
QUANTITY	DESCRIPTION	PRICE	AMOUNT
138	SAMPLES RECEIVED	.00	.00
138	JAW CRUSHING CHARGE	2.60	358.80
138	COARSE MILLING CHARGE	8.00	1,104.00
138	SPLITTING CHARGE	2.40	331.20
138	KEEGOR MILLING CHARGE	2.00	276.00
138	MIX/ROLL BLEND	1.20	165.60
138	RING MILLING CHARGE	2.00	276.00
138	Au (2 A.T. FIRE ASSAY)	10.25	1,414.50
138	HYDROCHLORIC/NITRIC DIGESTION	2.00	276.00
138	Ag ANALYSES	1.00	138.00

OK to pay  
716150-471  
Charles Marshall

NET INVOICE: 4,340.10  
LESS DISCOUNT: 1,432.23  
FREIGHT: .00

INVOICE TOTAL: 2,907.87

PLEASE NOTE THAT WE HAVE CHANGED OUR REMIT TO  
MAILING ADDRESS.

AMERICAN ASSAY LABORATORIES

**ANALYSIS REPORT :**

**SPO35684**



**American  
Assay  
Laboratories**

P.O. BOX 11530

RENO, NV., USA

Ph. 1-702-356-0606, Fax. 1-702-356-1413

Telex:

**HECLA MINING CO.**

COPIES TO : CHARLIE MUERHOFF

:

:

:

CLIENT REFERENCE No: 95-346

RECEIVED : 26 SEP 1995

No. SAMPLES : 138

REPORTED : 6 OCT 1995

MAIN SAMPLE TYPE : DRILL CORE

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au(OZ)	FA60	15%	OPT	0.001
Au(RZ)	FA60	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

AMERICAN ASSAY LABORATORIES  
ANALYSIS REPORT

SP035684

American  
Assay  
Laboratories

CLIENT : HECLA MINING CO.  
PROJECT : ROSEBUD  
REFERENCE : 95-346

REPORTED : 6 OCT 1995

SAMPLES	Au(OZ)	Au(RZ)	Ag(OZ)
	FA60 OPT	FA60 OPT	D210 OPT
95-346 467-470	0.002		0.10
95-346 470-471	0.006		0.06
95-346 471-471.5	0.009		0.04
95-346 471.5-475	<0.001	<0.001	<0.02
95-346 475-480	0.005		<0.02
95-346 480-485	0.038	0.035	0.08
95-346 485-490	<0.001		0.02
95-346 490-495	0.001		0.02
95-346 495-500	0.003		0.03
95-346 500-505	0.001		0.02
95-346 505-510	<0.001		0.02
95-346 510-515	0.002		0.02
95-346 515-520	<0.001		<0.02
95-346 520-525	0.002		<0.02
95-346 525-530	0.001		0.02
95-346 530-535	0.004		0.02
95-346 535-540	<0.001		<0.02
95-346 540-545	0.003		<0.02
95-346 545-550	0.001		<0.02
95-346 550-555	<0.001	<0.001	<0.02
95-346 555-556.5	<0.001		0.02
95-346 556.5-560	<0.001		<0.02
95-346 560-565	<0.001		<0.02
95-346 565-567.5	0.001		0.02
95-346 567.5-570	0.002		0.05

AMERICAN ASSAY LABORATORIES

**ANALYSIS REPORT : SPO35684**
**American  
Assay  
Laboratories**

CLIENT : HECLA MINING CO.  
 PROJECT : ROSEBUD  
 REFERENCE : 95-346

REPORTED : 6 OCT 1995

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	Ag(OZ) D210 OPT
95-346 570-575	0.002		0.03
95-346 575-578	0.003		0.04
95-346 578-580	0.001		0.05
95-346 580-585	0.002		0.04
95-346 585-590	0.004		0.04
95-346 590-595	0.002		0.15
95-346 595-600	0.002		0.06
95-346 600-605	0.001		0.05
95-346 605-610	0.004		0.06
95-346 610-613.2	0.006		0.07
95-346 613.2-615	0.003		0.05
95-346 615-620	0.003		0.05
95-346 620-625	0.002		0.03
95-346 625-630	0.006		0.07
95-346 630-635	0.002		0.02
95-346 635-640	0.001		0.02
95-346 640-645	0.001		0.02
95-346 645-650	0.001		0.02
95-346 650-652	0.007		0.05
95-346 652-655	0.002		0.03
95-346 655-660	<0.001	<0.001	<0.02
95-346 660-665	<0.001		<0.02
95-346 665-670	<0.001		<0.02
95-346 670-671.2	<0.001		<0.02
95-346 671.2-675	0.007		0.04

AMERICAN ASSAY LABORATORIES  
ANALYSIS REPORT

SPO35684

American  
Assay  
Laboratories

CLIENT : HECLA MINING CO.  
PROJECT : ROSEBUD  
REFERENCE : 95-346

REPORTED : 6 OCT 1995

SAMPLES	Au(OZ) FA60	Au(RZ) FA60	Ag(OZ) D210
	OPT	OPT	OPT
95-346 675-676.7	0.001		0.03
95-346 676.7-680	<0.001		<0.02
95-346 680-682.3	0.002		<0.02
95-346 682.3-685	<0.001		0.03
95-346 685-690	0.009		0.04
95-346 690-695	0.001		0.04
95-346 695-700	<0.001		0.04
95-346 700-705	<0.001		0.02
95-346 705-710	<0.001		0.02
95-346 710-715	0.007		0.03
95-346 715-720	0.008		0.02
95-346 720-725	<0.001		<0.02
95-346 725-730	<0.001		<0.02
95-346 730-735	0.001	0.001	0.02
95-346 735-740	0.001		0.02
95-346 740-745	0.002		0.02
95-346 745-750	0.004		0.08
95-346 750-755	0.004		0.05
95-346 755-760	<0.001		0.02
95-346 760-765	<0.001		<0.02
95-346 765-770.5	<0.001		<0.02
95-346 770.5-771	<0.001		0.02
95-346 771-775	0.002		0.02
95-346 775-780	0.009		0.05
95-346 780-785	0.022		0.06

AMERICAN ASSAY LABORATORIES  
ANALYSIS REPORT

SP035684

American  
Assay  
LaboratoriesCLIENT : HECLA MINING CO.  
PROJECT : ROSEBUD  
REFERENCE : 95-346

REPORTED : 6 OCT 1995

SAMPLES	Au(OZ)	Au(RZ)	Ag(OZ)
	FA60 OPT	FA60 OPT	D210 OPT
95-346 785-790	0.001		0.05
95-346 790-795	0.013		0.06
95-346 795-800	0.001		0.04
95-346 800-805	0.001		0.03
95-346 805-810.2	0.001		0.02
95-346 810.2-815	0.012		0.02
95-346 815-820	0.001		0.03
95-346 820-825	0.006		0.04
95-346 825-830	0.017		0.10
95-346 830-835	0.004		0.08
95-346 835-840	0.004		0.05
95-346 840-841.8	0.002		0.05
95-346 841.8-843	0.021		0.96
95-346 843-845	0.002		0.07
95-346 845-850	0.003		0.04
95-346 850-855	<0.001		<0.02
95-346 855-860	0.001		0.02
95-346 860-865	<0.001		0.02
95-346 865-870	<0.001		0.02
95-346 870-875	<0.001		0.02
95-346 875-880	0.003		0.05
95-346 880-885	0.005		0.05
95-346 885-890	0.001		0.02
95-346 890-892	0.001		0.03
95-346 892-894	0.013		0.04

AMERICAN ASSAY LABORATORIES  
**ANALYSIS REPORT : SPO35684**



**American  
Assay  
Laboratories**

CLIENT : HECLA MINING CO.  
 PROJECT : ROSEBUD  
 REFERENCE : 95-346

REPORTED : 6 OCT 1995

SAMPLES	Au(OZ)	Au(RZ)	Ag(OZ)
	FA60 OPT	FA60 OPT	D210 OPT
95-346 894-895	0.002		0.03
95-346 895-900	0.014		0.09
95-346 900-905	0.001		0.04
95-346 905-907.5	0.001	0.001	0.02
95-346 907.5-910	0.001		0.02
95-346 910-915	<0.001		<0.02
95-346 915-920	<0.001	<0.001	<0.02
95-346 920-925	<0.001		<0.02
95-346 925-930	<0.001		<0.02
95-346 930-935	<0.001		<0.02
95-346 935-940	<0.001		<0.02
95-346 940-945	<0.001		0.02
95-346 945-950	<0.001		0.02
95-346 950-955	<0.001		<0.02
95-346 955-960	<0.001		<0.02
95-346 960-965	<0.001		<0.02
95-346 965-970	<0.001		<0.02
95-346 970-975	<0.001		<0.02
95-346 975-979.7	0.002		0.02
95-346 979.7-984	0.001	0.001	0.02
95-346 984-986	0.001		0.03
95-346 986-990	0.004		0.03
95-346 990-995	0.003		0.03
95-346 995-996	<0.001		<0.02
95-346 996-1000	<0.001		<0.02

AMERICAN ASSAY LABORATORIES

**ANALYSIS REPORT**

SPO35684


**American  
Assay  
Laboratories**

CLIENT : HECLA MINING CO.  
 PROJECT : ROSEBUD  
 REFERENCE : 95-346

REPORTED : 6 OCT 1995

SAMPLES	Au(OZ)	Au(RZ)	Ag(OZ)
	FA60 OPT	FA60 OPT	D210 OPT
95-346 1000-1005	0.001		0.02
95-346 1005-1010	0.001		<0.02
95-346 1010-1015	<0.001		<0.02
95-346 1015-1018	<0.001		0.02
95-346 1018-1022	0.001		0.04
95-346 1022-1025	<0.001		<0.02
95-346 1025-1030	<0.001		<0.02
95-346 1030-1035	<0.001		<0.02
95-346 1035-1039	<0.001		<0.02
95-346 1039-1040	<0.001		<0.02
95-346 1040-1045	<0.001		<0.02
95-346 1045-1050	<0.001		<0.02
95-346 1050-1055	<0.001		<0.02

# COATES DRILLING, INC.

A Division Of P.C. Exploration

## DAILY TIME REPORT

CONTRACT NAME Rosebud  
 DATE 10-17-95  
 HOLE NO 342  
 SIZE HQ ANGLE 90°

JOB NO 329024

DAY

AFTERNOON

NIGHT

DRILL NO 44 NAME T Hedman  
 DRILL NO NAME H Arana  
 DRILL NO NAME NAME  
 DRILL NO NAME

	FROM	TO	FEET	OPERATION	DRILL HOURS	HOURS	HOURS	HOURS	HOURS
CORING				CORING					<u>2.5</u>
CORING (WEDGE)				CORE (WEDGE)					
OVERBURDEN				OVERBURDEN					
DRILL CEMENT				CEMENT/DRILL CEMENT					
REAM CASING				REAMING					
				HOLE STABILIZING					
WATER LINES: DISTANCE	FT.	LIFT	FT.	WATER LINES					
DOWN HOLE EQUIPMENT	TYPE	SIZE	FROM	TO	FEET	MOVING			
BIT #						SETTING UP/TEAR DOWN			
BIT #						MOB/DEMOB (TRUCKLOAD)			
BIT #						MOB/DEMOB (1st Hole/Last Hole)			
SHELL #						TRUCK DRIVING			
CASING SHOE #						<u>mudding Hole</u>	<u>2.5</u>	<u>2.5</u>	
CORE BARREL						OTHER (Explain)			
OTHER EQUIPMENT						<u>Pulled 500' in 10's (HQ)</u>	<u>3.5</u>	<u>3.5</u>	
						<u>30' HW CASING</u>			
UNIT	HOURS	REMARKS			TRACTOR DRIVING				
TRACTOR					WATER TRUCK DRIVING				<u>1</u>
WATER TRUCK	<u>1</u>	<u>1000 Gals. (1 Load)</u>			REPAIRS & MAINT.				
OTHER					TRAVEL			<u>1</u>	<u>1</u>
ACID TEST DEPTHS					ACID TESTING				
SURVEY DEPTHS					SURVEYING				
					TOTAL HOURS			<u>8</u>	<u>9.5</u>

GENERAL COMMENTS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

QUANT.	ITEMS CONSUMED	APPROVAL	QUANT.	ITEMS CONSUMED	APPROVAL
<u>4</u>	<u>50 lb. bags Abandonite</u>				

CUSTOMER C. Muehl

COMPANY \_\_\_\_\_

# COATES DRILLING, INC.

A Division Of P.C. Exploration

## DAILY TIME REPORT

CONTRACT NAME	Rosebud			JOB NO	329024		<del>L7-4d</del> <del>T. Howard</del> <del>H. Arana</del> <del>B. Huber</del>		
DATE	10-18-95			DAY	<input checked="" type="checkbox"/>				
HOLE NO	95-342			AFTERNOON	<input type="checkbox"/>				
SIZE	MQ	ANGLE	90	NIGHT	<input type="checkbox"/>				
	FROM	TO	FEET	OPERATION	DRILL HOURS	HOURS	HOURS	HOURS	HOURS
				CORING					
				CORE (WEDGE)					
				OVERBURDEN					
				DRILL CEMENT					
				REAM CASING					
WATER LINES:	DISTANCE	FT.	LIFT	FT.	WATER LINES				
DOWN HOLE EQUIPMENT	TYPE	SIZE	FROM	TO	FEET	MOVING			
BIT #						SETTING UP/TEAR DOWN			
BIT #						MOB/DEMOB (TRUCKLOAD)			
BIT #						MOB/DEMOB (1st Hole/Last Hole)			
SHELL #						TRUCK DRIVING			
CASING SHOE #						Rigging Down			
CORE BARREL						5 OTHER (Explain)			
OTHER EQUIPMENT									
UNIT	HOURS	REMARKS				TRACTOR DRIVING			
TRACTOR						WATER TRUCK DRIVING			
WATER TRUCK						REPAIRS & MAINT.			
OTHER						TRAVEL			
ACID TEST DEPTHS						ACID TESTING			
SURVEY DEPTHS						SURVEYING			
						TOTAL HOURS			

GENERAL COMMENTS:

QUANT.	ITEMS CONSUMED	APPROVAL	QUANT.	ITEMS CONSUMED	APPROVAL

CUSTOMER \_\_\_\_\_

COMPANY \_\_\_\_\_

*(Signature)*

# COATES DRILLING, INC.

A Division Of P.C. Exploration

## DAILY TIME REPORT

CONTRACT NAME Rose bud

JOB NO 329024

DATE 10/18/95

DAY

HOLE NO 45-355-A

AFTERNOON

SIZE 1 1/4

ANGLE 70°

NIGHT

DRILL NO LX 32  
NAME Jim Ge Tesser  
NAME Carl  
NAME Bob  
NAME Brant  
NAME Erickson

	FROM	TO	FEET	OPERATION	DRILL HOURS	HOURS	HOURS	HOURS	HOURS
CORING				CORING					
CORING (WEDGE)				CORE (WEDGE)					
OVERBURDEN				OVERBURDEN					
DRILL CEMENT				CEMENT/DRILL CEMENT					
REAM CASING				REAMING					
				HOLE STABILIZING					
WATER LINES: DISTANCE	FT.	LIFT	FT	WATER LINES					
DOWN HOLE EQUIPMENT	TYPE	SIZE	FROM	TO FEET	MOVING				
BIT #					SETTING UP/TEAR DOWN	4	4	4	4
BIT #					MOB/DEMOB (TRUCKLOAD)				
BIT #					MOB/DEMOB (1st Hole/Last Hole)				
SHELL #					TRUCK DRIVING				
CASING SHOE #					Casing Pulling	2	2	2	2
CORE BARREL					OTHER (Explain) Rods	2	2	2	2
OTHER EQUIPMENT					Lorsday	2	2	2	2
UNIT	HOURS	REMARKS			TRACTOR DRIVING				
TRACTOR					WATER TRUCK DRIVING				
WATER TRUCK					REPAIRS & MAINT.				
OTHER					TRAVEL	1	1	1	1
ACID TEST DEPTHS					ACID TESTING				
SURVEY DEPTHS					SURVEYING				
					TOTAL HOURS	11	11	11	11

GENERAL COMMENTS:

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QUANT	ITEMS CONSUMED	APPROVAL	QUANT.	ITEMS CONSUMED	APPROVAL
<u>1</u>	<u>4.50 FT HQ Rods</u>		<u>1</u>	<u>4 Bit Type HQWL</u>	
				<u>Set No L37071</u>	
	<u>HWC 55FT 4" Casing</u>		<u>1</u>	<u>1 HQ WL Ream Shell</u>	

CUSTOMER \_\_\_\_\_

COMPANY \_\_\_\_\_

*Elmer Huff*

# APPLIED GEOLOGIC STUDIES, INC.

2875 West Oxford  
 Suite #3  
 Englewood, Colorado 80110  
 (303) 761-5624  
 (303) 761-5625 (Fax)

## INVOICE

May 16, 1995

Mr. Rick Tschauder  
 Hecla Mining Company  
 6500 Mineral Drive  
 P.O. Box 2829  
 Coeur D'Alene, ID 83814-0346

RE: Purchase of NW Nevada Study.

Reproduction Costs-----\$610.39  
 Shipping Costs-----\$ 32.53

TOTAL AMOUNT DUE ----- \$642.92

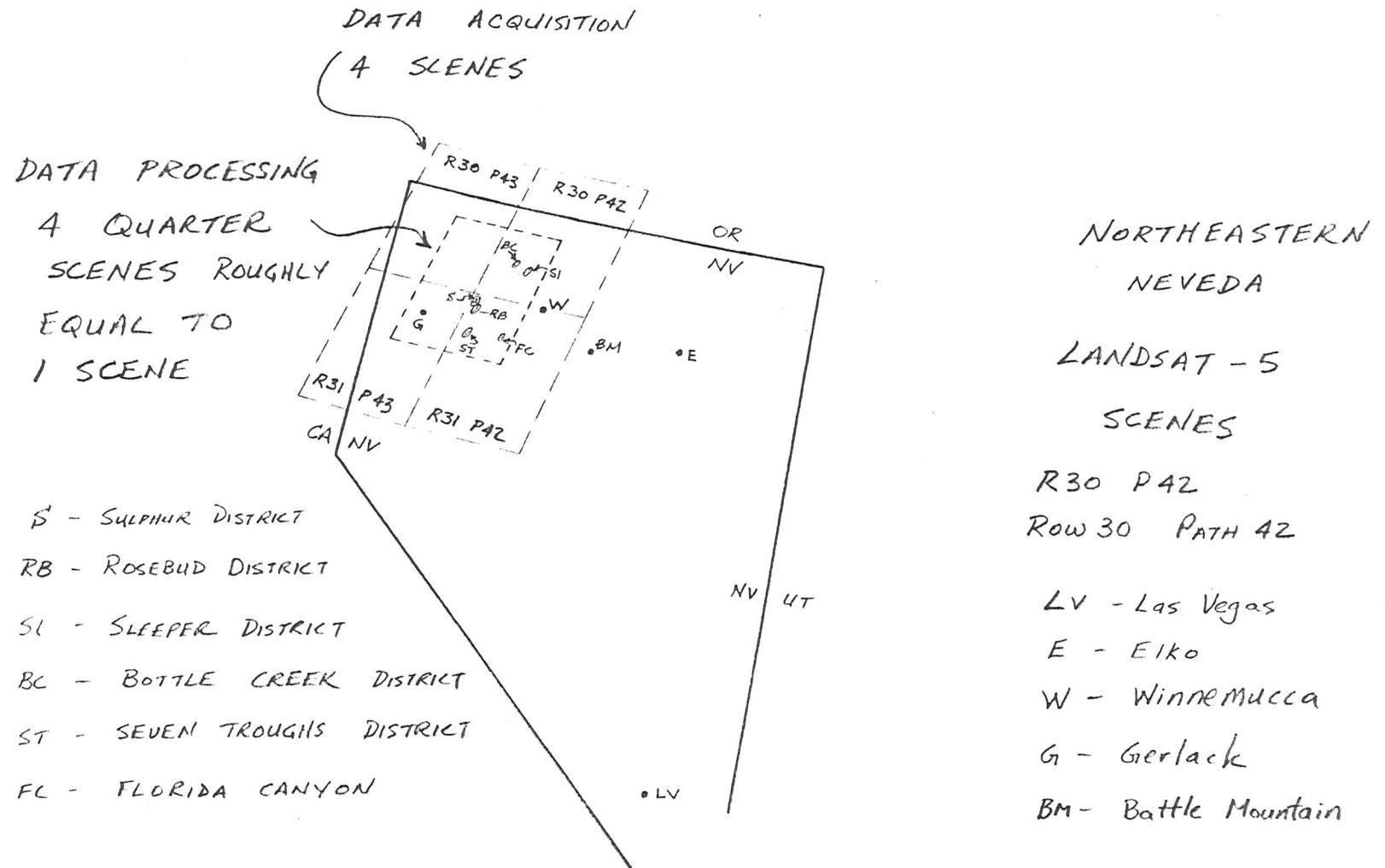
Please make check payable to Applied Geologic Studies, Inc.

OK to pay.

716160 - 586

Charles V. Marshall

Post-it™ Fax Note	7671	Date	5/22	# of pages	2
To	Charles	From	Rick Tschauder		
Co./Dept.	Murchison	Co.			
Phone #	CD	Phone #			
Fax #		Fax #			





May 8, 1995

**MEMORANDUM TO:** Charlie Muerhoff  
**FROM:** Rick Tschauder  
**SUBJECT:** May 5th Meetings in Denver

1. Meeting with Bob Wilson
  - a. Scenes are probably available for all four areas @ \$200-\$400 each, plus processing.
  - b. AGS has a compilation of NW Nevada available for \$8,000. I will probably purchase it. However, TM and structural detail is insufficient for our needs at Rosebud, and should be re-interpreted anyway.
  - c. I have asked Bob for a bid on the TM and photolineament work for the region and for local work around Rosebud. We can discuss later how we will divide the cost.
2. Meeting with Joe Anyman
  - a. Looked at VLF data - using north station - the one in Alaska, I think, highlights basin and range structures. The Annapolis station picks out the east and northeast structures. I suspect age relations are:
    - South ridge historic normal faulting.
    - Basin and range.
    - Rosebud shear.
- Based on data at hand.
- b. I am very excited about the potential use of all the geophysical data. I think Joe should look at all the work and see what information we can extract from it. There is at least \$250,000 worth of data there that hasn't been used. I am not adverse to using consultants to help us build a structural model.
3. The Board is very excited about Rosebud and are interested in what we are doing there from an exploration standpoint.

Ralph has instructed me to have an inferred resource estimate based on proximal drilling for the November Board meeting. We are ready to sign your AFEs for long-

May 8, 1995

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term research and proximal drilling - where are they? I would like to have something on my desk for approval by May 12th. Be sure you give yourself enough manpower and a reasonable (20%) time contingency. You tend to underestimate time requirements and we can't this time.

Everyone who visits tells me how busy you and Craig are with the mine. That is the high priority, but I think everyone now realizes that resource replacement has to have a high priority because of the short mine life. Make sure you have the stuff.

4. I think we need to discuss and prioritize the intermediate targets more before we sign off on that AFE. How do I know the two targets you want to work on are the two we should be doing first? How do you know?

Should we, instead, be compiling data, building geologic models and assigning priorities?

5. I have looked again at our long-term production forecast and reserve picture, considering our exploration potential at Rosebud and Grouse Creek. I think our resource replacement goal at Grouse Creek and Rosebud should be to discover 800,000 ounces of gold (not equivalent!) over a five-year period at Grouse Creek and Rosebud.

You should start thinking on terms of longer-term planning horizons anyway - so tell me how you're going to do that.

6. Please work with Ann and Don to schedule a visit to Rosebud for Don Cameron and myself in early June. I am relatively open from June 5 on. I would like to review exploration strategy and plans, and talk about how you are going to organize the mine geology department.

c: Don Cameron  
Ron Clayton

## **HECLA MINING COMPANY ROSEBUD PROJECT**

7000 Pitt Road  
P.O. Box 1861  
Lovelock, NV 89419  
(702) 427-7751 fax (702) 427-7781

### **FACSIMILE COVER SHEET**

Date: May 1, 1995

To: Rick Tschauder                          From: Charlie Muerhoff  
Hecla Mining Company  
fax (208) 769-4122

Number of pages (including this cover sheet): 2

Rick,

Just a couple of comments concerning your fax today:

1. Thanks for the further investigation into the availability of thematic mapping data. Let me know when Bob supplies you with a bid.
2. I fully agree with your assessment of the geophysical data, especially the VLF. There is a great opportunity available to us, given the enormous amount of geophysical data already acquired. I, too, have no opposition to letting Joe (or another geophysicist) help us out.
3. I am glad to see a.) excitement from the board concerning Rosebud and the exploration potential of the area, and b.) that others, beside the staff here at Rosebud, recognize the importance of priority resource replacement, given the current life-of-mine estimates. However, May 12th is not a reasonable date to expect an AFE on your desk. I will aim for the following Friday.
4. After our open discussion at the geology meeting concerning exploration target prioritization, I agree with you that we should be

approaching this problem from a little different standpoint before just jumping in. We agreed to try to have this prioritization method finalized by July 1st, and completion by that date is achievable.

5. 800,000 ounces Au is an ambitious goal! I will be prepared to discuss Rosebud's contribution to this goal when we meet next month.
6. It is very important to me that Ron is included in our meeting next month because, as you well know, successful headframe exploration is often dependent upon cooperation from the operations group. Also, Ron's input into, and approval of, the organizational structure of the mine geology department is necessary.

Let's plan on meeting at the site on Tuesday, June 6th. Both Ron and I are able to clear that date. If this date poses a problem for you, let me know. I will confirm with you towards the end of the month.

Keep in touch.

*Charlie*

c: Ron Clayton

# APPLIED GEOLOGIC STUDIES, INC.

2875 West Oxford  
Suite #3  
Englewood, Colorado 80110  
(303) 761-5624  
(303) 761-5625 (Fax)

## INVOICE

August 8, 1995

Mr. Rick Tschauder  
Hecla Mining Company  
6500 Mineral Drive  
P.O. Box C-8000  
Coeur D'Alene, ID 83814-0346

RE: Purchase TM data for NW Nevada

1. Purchase of Data for TM Scenes:

P42 - R31  
P42 - R32  
P43 - R32  
P43 - R31-----\$2,000.00

2. Shipping costs-----\$ 6.00

3. Handling costs-----\$ 30.00

TOTAL AMOUNT DUE-----\$2,036.00

Please make check payable to Applied Geologic Studies, Inc.

OK to pay  
716160-586  
Charles V. Muenhoff