

SL-D396-00

6000 0692

4010

6000 0092



- quartz, chalcedony, silicification
- faults, fractures
- FeOx
- sulfide
- calcite, carbonate
- argillization, white clays
- propylitization
- potassic alteration
- chlorite, chloritic clays

ROSEBUD PROJECT
DIAMOND DRILL LOG

HOLE NUMBER SL-D396-00 LOCATION St Louis 4346 much bay REMARKS _____
 PAGE 1 OF 8 NORTHING _____
 DATE 4-14-00 EASTING _____
 LOGGED BY LASSITER ELEVATION 4346
 SCALE 1"-10' AZIMUTH _____
 TOTAL DEPTH 540 INCLINATION _____

ITH OX/ RE	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA						
						FROM	TO	W	Au	Ag	Au2	Ac
Td 0	0- <u>DOZER</u> Dozer. Purple-Grey w/ Reddish staining. Autobrecciated, hematitic (<5% v. fine hematite) Average hardness, hematitic alteration	0 10 20 30 40 50		None	Hematitic							

ITH.	OX RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA				
							FROM	TO	W	Au	Ag
td		<p>0-328.7 <u>Dozer</u></p> <p>Fine grained rhyolite flow continues</p>	<p>190</p> <p>200</p> <p>210</p> <p>220</p> <p>230</p> <p>240</p> <p>250</p> <p>260</p>		<p>Some as 235.7</p> <p><u>235.7</u></p> <p>Small W.C. vein swarm 3-4 ~ 1/16-1/8" thick Pure white no other MIN.</p>						

ITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA					
							FROM	TO	W	Au	Ag	Au2
BMP		<p>328.7 - 348.7 <u>BMP PORPHYRY TYPE.</u></p> <p>Medium Green, Average hardness, 2-5% Phenocrysts replaced by Calcite. Glomerophenic xtals and 1/16-1/2" Sanidine replaced by Calcite. Top of section has some brecciation with dozer clast. Lower section has possible 1/16" vesicles.</p>	330		<p>328.7-348.7</p> <p>Joints at 35° are chloritic 1/16" ~ 6-12/ft</p>	<p>328.7-348.7</p> <p>Mod to Strong Prop. alteration. Crystals are replaced by Calcite. Weak argillization.</p>						
Td		<p>348.7 - 494.5 <u>Dozer</u></p> <p>Fine grained Rhyolite flow continues.</p> <p>302-400 Hematite stains core + violet gray color. Auto brecciated texture.</p> <p>400-416.5 Increasing argillization with green gray core color.</p>	350		<p>355</p> <p>Joint w/ Some Graphitic sulfides coating surface.</p> <p>382</p> <p>Minimal fractures.</p>	<p>348.7-400</p> <p>Weak Prop. and argillization. Some Calcite in micro-veins. Some cementation of auto breccia.</p>						

ITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA					
							FROM	TO	W	Au	Ag	Au2
Td		<p><u>DOZER</u></p> <p>Fine grained rhyolite flow</p> <p>416.3-418.7 white clay veinlets with pale green chloritic alteration on fracture, silica partially silicified fracture</p> <p>418.7-422.6 Matrix support breccia. Matrix is hydrothermally altered. Clays. Laine crystal with brown coating and light violet interior from specularite crystals. Probably barite. Pyrite, after marcasite in crystal vugs</p> <p>422.6-425.6 Calcite healed fault breccia with clast of dozer. Low angle 3' fault well intensely milled breccia with dark fine grained pyrite on fault plane</p> <p>425.6-434 Aphanitic dozer approaching fine grained massive in texture</p> <p>434-436 Pinkish colored dozer</p> <p>458.5-461 Healed older breccia</p>	<p>400</p> <p>410</p> <p>420</p> <p>430</p> <p>440</p> <p>450</p> <p>460</p> <p>470</p>		<p>401 Auto breccia texture grains into massive texture flow</p> <p>416.3 white clay swarms at fault surface</p> <p>416.3-425.6 Fault with matrix supported clast. Footwall zone from 422.6 to 425.6 is calcite flooded</p> <p>425.6-431.7 Highly fracture/crackle breccia with low angle orientation of ~70°</p> <p>431.7-432 crackle breccia with 1/4" calcite vein on uphole surface</p> <p>434.5 300' to shear plane with healed breccia</p>	<p>417 small blades of marcasite in open fracture. White clay also in the fracture</p> <p>416.3-422.6 marcasite blades in vugs and with white clay.</p> <p>434.7-438 Calcite veins in weakly argilline dozer</p> <p>436-438 moderate to high argillization. Calcite has a waxy feel</p> <p>439 600' to calcite veins</p> <p>442.7 1" thick pinkish calcite vein 500' to</p> <p>438-449 Numerous calcite veins upto 1" thick</p>	<p>400.1</p> <p>402</p> <p>407</p> <p>407</p> <p>412</p> <p>416.3</p> <p>418.7</p> <p>422.6</p> <p>425.4</p> <p>427</p> <p>427</p> <p>431.7</p> <p>431.7</p> <p>434.7</p> <p>436</p> <p>438</p> <p>442</p> <p>442</p> <p>447</p> <p>452</p> <p>452</p> <p>457</p> <p>458.5</p> <p>462</p> <p>462</p> <p>467</p> <p>467</p> <p>472</p>					

HECLA MINING COMPANY – ROSEBUD PROJECT
 GEOTECHNICAL DRILL LOG

HOLE # SL-D396-00

DATE: 4/7/00

LOGGED BY: LASSITER

PAGE 2 OF

DRILL RUN		SOLID CORE RECOVERY (%)	TOTAL CORE RECOVERY (%)	ROD	ROCK STRENGTH		FRACTURE DATA				DENSITY DATA		
FROM	TO				DOWNHOLE DEPTH	POINT LOAD INDEX (psi)	FRACTURE DENSITY (ft)	A/G. ANGLE TO CA	ROUGHNESS	INFILL	DOWNHOLE DEPTH	SAMPLE WEIGHT (g)	DISPLACEMENT (cc)
52	57	100	100	100									
57	62	100	100	100									
62	67	100	100	100									
67	72	100	100	100									
72	77	100	100	100									
77	82	100	100	100									
82	87	100	100	100									
87	92	100	100	100									
92	97	100	100	100									
97	102	100	100	100									
102	107	100	100	100									

HECLA MINING COMPANY – ROSEBUD PROJECT
 GEOTECHNICAL DRILL LOG

HOLE # SL-0396-00

DATE 4/7/00

LOGGED BY: LASSITER

PAGE 4 OF

DRILL RUN		SOLID CORE RECOVERY (%)	TOTAL CORE RECOVERY (%)	ROD	ROCK STRENGTH		FRACTURE DATA				DENSITY DATA		
FROM	TO				DOWNHOLE DEPTH	POINT LOAD INDEX (psi)	FRACTURE DENSITY (ft)	AVG ANGLE TO CA	ROUGHNESS	INFILL	DOWNHOLE DEPTH	SAMPLE WEIGHT (g)	DISPLACEMENT (cc)
162	167	97	97	97									
167	172	100	105	100									
172	177	98	102	98									
177	182	100	100	100									
182	187	100	100	100									
187	192	98	98	98									
192	197	100	100	100									
197	202	105	105	105									
202	207	86	86	86									
207	212	99	99	99									
112#	217	100	100	100									

4.1

Drill hole #	SL-D396-00		Measured	Corrected	Measured	Corrected
Down hole depth			Bearing	Azimuth	Inclination	Dip
	Quadrant:					
52	SE	74	121.62	36.75	-53.25	
252	SE	71.5	124.12	36.5	-53.5	
452	SE	70	125.62	36	-54	

TD Depth 540

2000 Declination 15.62

SP

SUBMITTAL FORM



American Assay Laboratories

Company: ROSEBUD MINING LLC

Address: P.O. Box 2610

City: WINNEMUCA State: NV Zip: 89446

Telephone Number: (775) 623-6912- Fax Number: (775) 623-6967

Project Name: Purchase Order Number:

Date Submitted: 3-16-00 Number of Samples: 39

Geochemical • Environmental • Metallurgical

Sparks Office 1500 Glendale Ave. Nevada 89431 Box 11530 Reno, NV 89510 Telephone (702) 356-0606 Fax (702) 356-1413

Tucson Office 2775 E. Ganley Tucson, AZ 85706 Telephone (520) 294-8078 Fax (520) 294-6352

Elko Office 2320 Last Chance Rd. Nevada 89801 Box 2908 Elko, NV 89801 Telephone (702) 738-9100 Fax (702) 738-2594

Zacatecas Office Telephone/Fax 011-52-49-234530

Other Offices Lima, Peru Santiago, Chile Mendoza, Argentina

RESULTS REPORTED IN: ppm [] ppb [] opt [x]

Table with 3 columns: SAMPLE IDENTIFICATION, TYPE, ELEMENTS REQUIRED. Contains handwritten entries for sample S2-D396-00 and a Rosebud Production Standard.

COARSE REJECTS (Normally Discarded After 60 Days)

[x] Return COD after analysis complete

PULPS (Normally Stored Free For One Month)

[] Discard after one month [x] Return COD after one month

RESULTS AND INVOICES TO BE SENT TO:

Invoice to:

KURT ALLEN

Results to:

KURT ALLEN

Comments: [Empty box for handwritten notes]

SL-D396-00

Depth		Interval	Au	Ag	Sample Number
From	To				
400.1	402	1.9	x	x	1
402	407	5	x	x	2
407	412	5	x	x	3
412	416.3	4.3	x	x	4
416.3	418.7	2.4	x	x	5
418.7	422.6	3.9	x	x	6
422.6	425.4	2.8	x	x	7
425.4	427	1.6	x	x	8
427	431.7	4.7	x	x	9
431.7	434.7	3	x	x	10
434.7	436	1.3	x	x	11
436	438	2	x	x	12
438	442	4	x	x	13
442	447	5	x	x	14
447	452	5	x	x	15
452	457	5	x	x	16
457	458.5	1.5	x	x	17
458.5	462	3.5	x	x	18
462	467	5	x	x	19
467	472	5	x	x	20
472	477	5	x	x	21
477	480.9	3.9	x	x	22
480.9	482	1.1	x	x	23
482	487	5	x	x	24
487	489	2	x	x	25
489	491.7	2.7	x	x	26
491.7	492.2	0.5	x	x	27
492.2	494.5	2.3	x	x	28
494.5	497	2.5	x	x	29
497	503	6	x	x	30
503	504	1	x	x	31
504	505	1	x	x	32
505	507.2	2.2	x	x	33
507.2	512	4.8	x	x	34
512	516	4	x	x	35
516	522	6	x	x	36
522	527	5	x	x	37
527	532	5	x	x	38
532	540	8	x	x	39

SL-D396-00

Depth		Interval	Au	Ag	Sample Number
From	To				
400.1	402	1.9	x	x	1
402	407	5	x	x	2
407	412	5	x	x	3
412	416.3	4.3	x	x	4
416.3	418.7	2.4	x	x	5
418.7	422.6	3.9	x	x	6
422.6	425.4	2.8	x	x	7
425.4	427	1.6	x	x	8
427	431.7	4.7	x	x	9
431.7	434.7	3	x	x	10
434.7	436	1.3	x	x	11
436	438	2	x	x	12
438	442	4	x	x	13
442	447	5	x	x	14
447	452	5	x	x	15
452	457	5	x	x	16
457	458.5	1.5	x	x	17
458.5	462	3.5	x	x	18
462	467	5	x	x	19
467	472	5	x	x	20
472	477	5	x	x	21
477	480.9	3.9	x	x	22
480.9	482	1.1	x	x	23
482	487	5	x	x	24
487	489	2	x	x	25
489	491.7	2.7	x	x	26
491.7	492.7	1	x	x	27
492.7	494.5	1.8	x	x	28
494.5	497	2.5	x	x	29
497	503	6	x	x	30
503	504	1	x	x	31
504	505	1	x	x	32
505	507.2	2.2	x	x	33
507.2	512	4.8	x	x	34
512	516	4	x	x	35
516	522	6	x	x	36
522	527	5	x	x	37
527	532	5	x	x	38
532	540	8	x	x	39

Working

TARGET Drill Hole Dip Azi
 396 -54 126

CUMULATIVE DEVIATION				CUMULATIVE LOCATION			
NO.	DEPTH ft.	NORTHING ft.	EASTING ft.	NO.	ELEV. ft.	NORTHING ft.	EASTING ft.
1	0.81	-0.35	0.48	0	4334.19	2204853.65	481268.48
2	16.99	-7.26	9.99	20	4318.01	2204846.74	481277.99
3	33.17	-14.17	19.50	40	4301.83	2204839.83	481287.50
4	49.35	-21.08	29.01	60	4285.65	2204832.92	481297.01
5	65.53	-27.99	38.52	80	4269.47	2204826.01	481306.52
6	81.71	-34.90	48.03	100	4253.29	2204819.10	481316.03
7	97.89	-41.81	57.54	120	4237.11	2204812.19	481325.54
8	114.07	-48.72	67.05	140	4220.93	2204805.28	481335.05
9	130.25	-55.63	76.56	160	4204.75	2204798.37	481344.56
10	146.43	-62.54	86.07	180	4188.57	2204791.46	481354.07
11	162.61	-69.45	95.58	200	4172.39	2204784.55	481363.58
12	178.79	-76.36	105.09	220	4156.21	2204777.64	481373.09
13	194.97	-83.27	114.60	240	4140.03	2204770.73	481382.60
14	211.16	-90.18	124.11	260	4123.84	2204763.82	481392.11
15	227.34	-97.09	133.62	280	4107.66	2204756.91	481401.62
16	243.52	-104.00	143.13	300	4091.48	2204750.00	481411.13
17	259.70	-110.91	152.64	320	4075.30	2204743.09	481420.64
18	275.88	-117.82	162.15	340	4059.12	2204736.18	481430.15
19	292.06	-124.73	171.66	360	4042.94	2204729.27	481439.66
20	308.24	-131.64	181.17	380	4026.76	2204722.36	481449.17
21	324.42	-138.55	190.68	400	4010.58	2204715.45	481458.68
22	340.60	-145.46	200.19	420	3994.40	2204708.54	481468.19
23	356.78	-152.37	209.70	440	3978.22	2204701.63	481477.70
24	372.96	-159.28	219.21	460	3962.04	2204694.72	481487.21
25	389.14	-166.19	228.72	480	3945.86	2204687.81	481496.72
26	405.32	-173.10	238.23	500	3929.68	2204680.90	481506.23
27	421.50	-180.01	247.74	520	3913.50	2204673.99	481515.74
28	437.68	-186.92	257.25	540	3897.32	2204667.08	481525.25
29	453.86	-193.83	266.76	560	3881.14	2204660.17	481534.76
30	470.04	-200.74	276.27	580	3864.96	2204653.26	481544.27
31	486.22	-207.65	285.78	600	3848.78	2204646.35	481553.78
32	502.40	-214.56	295.29	620	3832.60	2204639.44	481563.29
33	518.58	-221.47	304.80	640	3816.42	2204632.53	481572.80
34	534.77	-228.38	314.31	660	3800.23	2204625.62	481582.31
35	550.95	-235.29	323.82	680	3784.05	2204618.71	481591.82
36	567.13	-242.20	333.33	700	3767.87	2204611.80	481601.33
37	583.31	-249.11	342.84	720	3751.69	2204604.89	481610.84
38	599.49	-256.02	352.35	740	3735.51	2204597.98	481620.35
39	615.67	-262.93	361.86	760	3719.33	2204591.07	481629.86
40	631.85	-269.84	371.37	780	3703.15	2204584.16	481639.37
41	648.03	-276.75	380.88	800	3686.97	2204577.25	481648.88
42	664.21	-283.66	390.39	820	3670.79	2204570.34	481658.39

SL-D396-00

SL-D396-00

Depth					Sample
From	To	Interval	Au	Ag	Number
400.1	402	1.9	x	x	1
402	407	5	x	x	2
407	412	5	x	x	3
412	416.5	4.5	x	x	4
416.5	418.7	2.2	x	x	5
418.7	422.6	3.9	x	x	6
422.6	425.4	2.8	x	x	7
425.4	427	1.6	x	x	8
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431.7	434.7	3	x	x	10
434.7	436	1.3	x	x	11
436	438	2	x	x	12
438	442	4	x	x	13
442	447	5	x	x	14
447	452	5	x	x	15
452	457	5	x	x	16
457	458.5	1.5	x	x	17
458.5	462	3.5	x	x	18
462	467	5	x	x	19
467	472	5	x	x	20
472	477	5	x	x	21
477	480.9	3.9	x	x	22
480.9	482	1.1	x	x	23
482	487	5	x	x	24
487	489	2	x	x	25
489	491.7	2.7	x	x	26
491.7	492.7	1	x	x	27
492.7	494.5	1.8	x	x	28
494.5	497	2.5	x	x	29
497	503	6	x	x	30
503	504	1	x	x	31
504	505	1	x	x	32
505	507.2	2.2	x	x	33
507.2	512	4.8	x	x	34
512	516	4	x	x	35
516	522	6	x	x	36
522	527	5	x	x	37
527	532	5	x	x	38
532	540	8	x	x	39



PO BOX 11530
RENO NV, USA
Ph. (775) 356-0606, Fax. (775) 356-1413

HECLA MINING COMPANY

COPIES TO : BRIAN MORRIS

: KURT ALLEN

:

:

CLIENT REFERENCE No: SLD-396-00

RECEIVED : 14 APR 2000

No. SAMPLES : 4

REPORTED : 25 APR 2000

MAIN SAMPLE TYPE : DRILL CORE

NEVADA LEGISLATIVE DISCLAIMER :-

The results of this assay were based solely upon the content of the sample submitted. Any decision to invest should be made only after the potential investment value of the claim or deposit has been determined based on the results of assays of multiple samples of geological materials collected by the prospective investor or by a qualified person selected by him and based on an evaluation of all engineering data which is available concerning any proposed project.

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au(OZ)	FA30	15%	OPT	0.001
Au(RZ)	FA30	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

AMERICAN ASSAY LABORATORIES
ANALYSIS REPORT SP057017



American
Assay
Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD
REFERENCE : SLD-396-00

REPORTED : 25 APR 2000

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag(OZ)
			D210 OPT
SLD-396-00 87.0-89.6	<0.001		<0.02
SLD-396-00 89.6-90.1	<0.001		<0.02
SLD-396-00 90.1-92.0	<0.001		<0.02
89650	0.058		0.96



PO BOX 11530
RENO NV, USA
Ph. (775) 356-0606, Fax. (775) 356-1413

HECLA MINING COMPANY

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: KURT ALLEN
:
:

CLIENT REFERENCE No: SLD-396-00

RECEIVED : 14 APR 2000

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ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au(OZ)	FA30	15%	OPT	0.001
Au(RZ)	FA30	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

AMERICAN ASSAY LABORATORIES
ANALYSIS REPORT SP057017



**American
Assay
Laboratories**

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD
REFERENCE : SLD-396-00

REPORTED : 25 APR 2000

SAMPLES	Au(OZ)	Au(RZ)	Ag(OZ)
	FA30 OPT	FA30 OPT	D210 OPT
SLD-396-00 87.0-89.6	<0.001		<0.02
SLD-396-00 89.6-90.1	<0.001		<0.02
SLD-396-00 90.1-92.0	<0.001		<0.02
89650	0.058		0.96



INVOICE

Remit To: P.O. Box 11530
Reno, Nevada 89510
Phone NO.: 702-356-0606
Fax No.: 702-356-1413

AMERICAN ASSAY LABORATORIES
1500 GLENDALE AVE.
SPARKS, NV 89431-5902

INVOICE NO: SP 0057017-IN
INVOICE DATE: 05/02/00

(775) 356-0606

INVOICE TO:	THE ROSEBUD MINING CO., LLC HECLA MINING COMPANY, OPERATOR P.O. BOX 2610 WINNEMUCCA NV 89446	THE ROSEBUD MINING CO., LLC HECLA MINING COMPANY, OPERATOR P.O. BOX 2610 WINNEMUCCA NV 89446
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CUSTOMER P.O. SLD-396-00	PROJECT KURT ALLEN	TERMS NET 30 - DUE IN U.S. DOLLARS
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QUANTITY	DESCRIPTION	PRICE	AMOUNT
4	SAMPLES RECEIVED	.00	.00
1	NO PREPARATION REQUIRED	.00	.00
3	DRY/JAW CRUSH ENTIRE SAMPLE	2.30	6.90
3	COARSE MILLING CHARGE	6.00	18.00
3	ROTARY SPLIT	2.40	7.20
3	RING/PUCK MILL	2.00	6.00
4	Au (1 A.T. FIRE ASSAY)	8.00	32.00
4	HYDROCHLORIC/NITRIC DIGESTION	2.00	8.00
4	Ag ANALYSES	1.00	4.00

86-3010-477
KAA

NET INVOICE:	82.10
LESS DISCOUNT:	24.63
FREIGHT:	.00
INVOICE TOTAL:	57.47

PROVISIONAL REPORT SP057017

PO BOX 11530
 RENO NV, USA
 Ph. (775) 356-0606, Fax. (775) 356-1413

HECLA MINING COMPANY

COPIES TO : BRIAN MORRIS

: KURT ALLEN

:

:

CLIENT REFERENCE No: SLD-396-00

RECEIVED : 14 APR 2000

No. SAMPLES : 4

REPORTED : 24 APR 2000

MAIN SAMPLE TYPE : DRILL CORE

NEVADA LEGISLATIVE DISCLAIMER :-

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ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au(OZ)	FA30	15%		
Au(RZ)	FA30	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.001
			OPT	0.02

SIGNATORY : Leonard E. Mackedon B.S.

PROVISIONAL REPORT SP057017

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HECLA MINING COMPANY

COPIES TO : BRIAN MORRIS
 : KURT ALLEN

CLIENT REFERENCE No: SLD-396-00

RECEIVED : 14 APR 2000

No. SAMPLES : 4

REPORTED : 25 APR 2000

MAIN SAMPLE TYPE : DRILL CORE

NEVADA LEGISLATIVE DISCLAIMER :-

The results of this assay were based solely upon the content of the sample submitted. Any decision to invest should be made only after the potential investment value of the claim or deposit has been determined based on the results of assays of multiple samples of geological materials collected by the prospective investor or by a qualified person selected by him and based on an evaluation of all engineering data which is available concerning any proposed project.

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au(OZ)	FA30	15%	OPT	0.001
Au(RZ)	FA30	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Leonard E. Mackedon B.S.

Page : 1



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HECLA MINING COMPANY

COPIES TO : BRIAN MORRIS
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CLIENT REFERENCE No: SL-D396-00 RECEIVED : 20 MAR 2000
No. SAMPLES : 39 REPORTED : 4 APR 2000
MAIN SAMPLE TYPE : DRILL CORE

NEVADA LEGISLATIVE DISCLAIMER :-

The results of this assay were based solely upon the content of the sample submitted. Any decision to invest should be made only after the potential investment value of the claim or deposit has been determined based on the results of assays of multiple samples of geological materials collected by the prospective investor or by a qualified person selected by him and based on an evaluation of all engineering data which is available concerning any proposed project.

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au(OZ)	FA30	15%	OPT	0.001
Au(RZ)	FA30	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

AMERICAN ASSAY LABORATORIES
ANALYSIS REPORT SP056646



American
Assay
Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD
REFERENCE : SL-D396-00

REPORTED : 4 APR 2000

SAMPLES	Au(OZ)	Au(RZ)	Ag(OZ)
	FA30 OPT	FA30 OPT	D210 OPT
SL-D396-00 400.1-402.0	0.001		0.02
SL-D396-00 402-407	<0.001		<0.02
SL-D396-00 407-412	0.001		0.02
SL-D396-00 412.0-416.3	0.002	0.003	0.02
SL-D396-00 416.3-418.7	0.096	0.099	0.08
SL-D396-00 418.7-422.6	0.011		0.02
SL-D396-00 422.6-425.4	0.005		<0.02
SL-D396-00 425.4-427.0	0.003		0.02
SL-D396-00 427.0-431.7	0.001		0.04
SL-D396-00 431.7-434.7	0.003		0.02
SL-D396-00 434.7-436.0	0.001	0.001	<0.02
SL-D396-00 436-438	0.003		0.02
SL-D396-00 438-442	0.001		<0.02
SL-D396-00 442-447	<0.001		<0.02
SL-D396-00 447-452	0.003		<0.02
SL-D396-00 452-457	0.005	0.009	<0.02
SL-D396-00 457.0-458.5	<0.001		<0.02
SL-D396-00 458.5-462.0	0.001		<0.02
SL-D396-00 462-467		SAMPLE NOT RECEIVED	
SL-D396-00 467-472	0.001		<0.02
SL-D396-00 472-477	0.001		<0.02
SL-D396-00 477.0-480.9	<0.001		<0.02
SL-D396-00 480.9-482.0	<0.001		<0.02
SL-D396-00 482-487	0.003		<0.02
SL-D396-00 487-489	<0.001		<0.02

AMERICAN ASSAY LABORATORIES
ANALYSIS REPORT SP056646



**American
 Assay
 Laboratories**

CLIENT : HECLA MINING COMPANY
 PROJECT : ROSEBUD
 REFERENCE : SL-D396-00
 REPORTED : 4 APR 2000

SAMPLES	Au(OZ)	Au(RZ)	Ag(OZ)
	FA30 OPT	FA30 OPT	D210 OPT
SL-D396-00 489.0-491.7	<0.001		<0.02
SL-D396-00 491.7-492.2	0.002		<0.02
SL-D396-00 492.2-494.5	0.002		<0.02
SL-D396-00 494.5-497.0	<0.001		0.04
SL-D396-00 497-503	<0.001		0.04
SL-D396-00 503-504	<0.001		0.02
SL-D396-00 504-505	<0.001		<0.02
SL-D396-00 505.0-507.2	<0.001		<0.02
SL-D396-00 507.2-512.0	<0.001		<0.02
SL-D396-00 512-516	<0.001		0.02
SL-D396-00 516-522	<0.001		0.02
SL-D396-00 522-527	<0.001	0.001	0.02
SL-D396-00 527-532	<0.001		<0.02
SL-D396-00 532-540	<0.001		<0.02
76027	0.380		3.40



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HECLA MINING COMPANY

COPIES TO : BRIAN MORRIS
: KURT ALLEN
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CLIENT REFERENCE No: SL-D396-00
No. SAMPLES : 39
MAIN SAMPLE TYPE : DRILL CORE

RECEIVED : 20 MAR 2000
REPORTED : 4 APR 2000

NEVADA LEGISLATIVE DISCLAIMER :-

The results of this assay were based solely upon the content of the sample submitted. Any decision to invest should be made only after the potential investment value of the claim or deposit has been determined based on the results of assays of multiple samples of geological materials collected by the prospective investor or by a qualified person selected by him and based on an evaluation of all engineering data which is available concerning any proposed project.

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au(OZ)	FA30	15%	OPT	0.001
Au(RZ)	FA30	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

AMERICAN ASSAY LABORATORIES
ANALYSIS REPORT SP056646



**American
Assay
Laboratories**

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD
REFERENCE : SL-D396-00

REPORTED : 4 APR 2000

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	Ag(OZ) D210 OPT
SL-D396-00 400.1-402.0	0.001		0.02
SL-D396-00 402-407	<0.001		<0.02
SL-D396-00 407-412	0.001		0.02
SL-D396-00 412.0-416.3	0.002	0.003	0.02
SL-D396-00 416.3-418.7	0.096	0.099	0.08
SL-D396-00 418.7-422.6	0.011		0.02
SL-D396-00 422.6-425.4	0.005		<0.02
SL-D396-00 425.4-427.0	0.003		0.02
SL-D396-00 427.0-431.7	0.001		0.04
SL-D396-00 431.7-434.7	0.003		0.02
SL-D396-00 434.7-436.0	0.001	0.001	<0.02
SL-D396-00 436-438	0.003		0.02
SL-D396-00 438-442	0.001		<0.02
SL-D396-00 442-447	<0.001		<0.02
SL-D396-00 447-452	0.003		<0.02
SL-D396-00 452-457	0.005	0.009	<0.02
SL-D396-00 457.0-458.5	<0.001		<0.02
SL-D396-00 458.5-462.0	0.001		<0.02
SL-D396-00 462-467		SAMPLE NOT RECEIVED	
SL-D396-00 467-472	0.001		<0.02
SL-D396-00 472-477	0.001		<0.02
SL-D396-00 477.0-480.9	<0.001		<0.02
SL-D396-00 480.9-482.0	<0.001		<0.02
SL-D396-00 482-487	0.003		<0.02
SL-D396-00 487-489	<0.001		<0.02

AMERICAN ASSAY LABORATORIES
ANALYSIS REPORT SP056646



**American
Assay
Laboratories**

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD
REFERENCE : SL-D396-00
REPORTED : 4 APR 2000

SAMPLES	Au(OZ)	Au(RZ)	Ag(OZ)
	FA30 OPT	FA30 OPT	D210 OPT
SL-D396-00 489.0-491.7	<0.001		<0.02
SL-D396-00 491.7-492.2	0.002		<0.02
SL-D396-00 492.2-494.5	0.002		<0.02
SL-D396-00 494.5-497.0	<0.001		0.04
SL-D396-00 497-503	<0.001		0.04
SL-D396-00 503-504	<0.001		0.02
SL-D396-00 504-505	<0.001		<0.02
SL-D396-00 505.0-507.2	<0.001		<0.02
SL-D396-00 507.2-512.0	<0.001		<0.02
SL-D396-00 512-516	<0.001		0.02
SL-D396-00 516-522	<0.001		0.02
SL-D396-00 522-527	<0.001	0.001	0.02
SL-D396-00 527-532	<0.001		<0.02
SL-D396-00 532-540	<0.001		<0.02
76027	0.380		3.40



**American
Assay
Laboratories**

INVOICE

Remit To: P.O. Box 11530
Reno, Nevada 89510
Phone NO.: 702-356-0606
Fax No.: 702-356-1413

AMERICAN ASSAY LABORATORIES
1500 GLENDALE AVE.
SPARKS, NV 89431-5902

INVOICE NO: SP 0056646-IN
INVOICE DATE: 04/05/00

(775) 356-0606

INVOICE TO:		
THE ROSEBUD MINING CO., LLC		THE ROSEBUD MINING CO., LLC
HECLA MINING COMPANY, OPERATOR		HECLA MINING COMPANY, OPERATOR
P.O. BOX 2610		P.O. BOX 2610
WINNEMUCCA	NV 89446	WINNEMUCCA
		NV 89446

CUSTOMER P.O.	PROJECT	TERMS
SL-D396-00	KURT ALLEN	NET 30 - DUE IN U.S. DOLLARS

QUANTITY	DESCRIPTION	PRICE	AMOUNT
39	SAMPLES RECEIVED	.00	.00
1	NO PREPARATION REQUIRED	.00	.00
38	DRY/JAW CRUSH ENTIRE SAMPLE	3.60	136.80
38	COARSE MILLING CHARGE	8.00	304.00
38	ROTARY SPLIT	3.00	114.00
38	RING/PUCK MILL	2.00	76.00
39	Au (1 A.T. FIRE ASSAY)	8.00	312.00
39	HYDROCHLORIC/NITRIC DIGESTION	2.00	78.00
39	Ag ANALYSES	1.00	39.00

86-3010-477
KAA

NET INVOICE:	1,059.80
LESS DISCOUNT:	317.94
FREIGHT:	.00
INVOICE TOTAL:	741.86

PROVISIONAL REPORT SP058846

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HECLA MINING COMPANY

COPIES TO : BRIAN MORRIS

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CLIENT REFERENCE No: **SL-D396-00**

RECEIVED : 20 MAR 2000

No. SAMPLES : 39

REPORTED : 24 MAR 2000

MAIN SAMPLE TYPE : DRILL CORE

NEVADA LEGISLATIVE DISCLAIMER :-

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ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au(OZ)	FA30	15%	OPT	0.001
Au(RZ)	FA30	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Leonard E. Mackedon B.S.

Page : 1

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP056646

CLIENT : HECLA MINING COMPANY
 PROJECT : ROSEBUD
 REFERENCE : SL-D396-00
 REPORTED : 24 MAR 2000

SAMPLES		Au(OZ)	Au(RZ)	Ag(OZ)
SL-D396-00	400.1-402.0	0.001		
SL-D396-00	402-407	<0.001		
SL-D396-00	407-412	0.001		
SL-D396-00	412.0-416.3	0.002	0.003	
SL-D396-00	416.3-418.7	0.096	0.099	
SL-D396-00	418.7-422.6	0.011		
SL-D396-00	422.6-425.4	0.005		
SL-D396-00	425.4-427.0	0.003		
SL-D396-00	427.0-431.7	0.001		
SL-D396-00	431.7-434.7	0.003		
SL-D396-00	434.7-436.0	0.001	0.001	
SL-D396-00	436-438	0.003		
SL-D396-00	438-442	0.001		
SL-D396-00	442-447	<0.001		
SL-D396-00	447-452	0.003		
SL-D396-00	452-457	0.005	0.009	
SL-D396-00	457.0-458.5	<0.001		
SL-D396-00	458.5-462.0	0.001		
SL-D396-00	462-467	SAMPLE NOT RECEIVED		
SL-D396-00	467-472	0.001		
SL-D396-00	472-477	0.001		
SL-D396-00	477.0-480.9	<0.001		
SL-D396-00	480.9-482.0	<0.001		
SL-D396-00	482-487	0.003		
SL-D396-00	487-489	<0.001		

PROVISIONAL REPORT SPO56646

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HECLA MINING COMPANY

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CLIENT REFERENCE No: SL-D396-00 RECEIVED : 20 MAR 2000
 No. SAMPLES : 39 REPORTED : 4 APR 2000
 MAIN SAMPLE TYPE : DRILL CORE

NEVADA LEGISLATIVE DISCLAIMER :-

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ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au(OZ)	FA30	15%	OPT	0.001
Au(RZ)	FA30	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Leonard E. Mackedon B.S.

Page : 1

PROVISIONAL REPORT SP056648

CLIENT : HECLA MINING COMPANY
 PROJECT : ROSEBUD
 REFERENCE : SL-D396-00
 REPORTED : 4 APR 2000

SAMPLES	Au(OZ)	Au(RZ)	Ag(OZ)
SL-D396-00 400.1-402.0	0.001		0.02
SL-D396-00 402-407	<0.001		<0.02
SL-D396-00 407-412	0.001		0.02
SL-D396-00 412.0-416.3	0.002	0.003	0.02
SL-D396-00 416.3-418.7	0.096	0.099	0.08
SL-D396-00 418.7-422.6	0.011		0.02
SL-D396-00 422.6-425.4	0.005		<0.02
SL-D396-00 425.4-427.0	0.003		0.02
SL-D396-00 427.0-431.7	0.001		0.04
SL-D396-00 431.7-434.7	0.003		0.02
SL-D396-00 434.7-436.0	0.001	0.001	<0.02
SL-D396-00 436-438	0.003		0.02
SL-D396-00 438-442	0.001		<0.02
SL-D396-00 442-447	<0.001		<0.02
SL-D396-00 447-452	0.003		<0.02
SL-D396-00 452-457	0.005	0.009	<0.02
SL-D396-00 457.0-458.5	<0.001		<0.02
SL-D396-00 458.5-462.0	0.001		<0.02
SL-D396-00 462-467	SAMPLE NOT RECEIVED		
SL-D396-00 467-472	0.001		<0.02
SL-D396-00 472-477	0.001		<0.02
SL-D396-00 477.0-480.9	<0.001		<0.02
SL-D396-00 480.9-482.0	<0.001		<0.02
SL-D396-00 482-487	0.003		<0.02
SL-D396-00 487-489	<0.001		<0.02

PROVISIONAL REPORT SP056646

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD
REFERENCE : SL-D396-00

REPORTED : 4 APR 2000

SAMPLES	Au(OZ)	Au(RZ)	Ag(OZ)
SL-D396-00 489.0-491.7	<0.001		<0.02
SL-D396-00 491.7-492.2	0.002		<0.02
SL-D396-00 492.2-494.5	0.002		<0.02
SL-D396-00 494.5-497.0	<0.001		0.04
SL-D396-00 497-503	<0.001		0.04
SL-D396-00 503-504	<0.001		0.02
SL-D396-00 504-505	<0.001		<0.02
SL-D396-00 505.0-507.2	<0.001		<0.02
SL-D396-00 507.2-512.0	<0.001		<0.02
SL-D396-00 512-516	<0.001		0.02
SL-D396-00 516-522	<0.001		0.02
SL-D396-00 522-527	<0.001	0.001	0.02
SL-D396-00 527-532	<0.001		<0.02
SL-D396-00 532-540	<0.001		<0.02
76027	0.380		3.40

PROVISIONAL REPORT SP056848

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HECLA MINING COMPANY

COPIES TO : BRIAN MORRIS

: KURT ALLEN

:

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CLIENT REFERENCE No: SL-D396-00

RECEIVED : 20 MAR 2000

No. SAMPLES : 39

REPORTED : 24 MAR 2000

MAIN SAMPLE TYPE : DRILL CORE

NEVADA LEGISLATIVE DISCLAIMER :-

The results of this assay were based solely upon the content of the sample submitted. Any decision to invest should be made only after the potential investment value of the claim or deposit has been determined based on the results of assays of multiple samples of geological materials collected by the prospective investor or by a qualified person selected by him and based on an evaluation of all engineering data which is available concerning any proposed project.

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au(OZ)	FA30	15%	OPT	0.001
Au(RZ)	FA30	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Leonard E. Mackedon B.S.

Page : 1

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP056646

CLIENT : HECLA MINING COMPANY
 PROJECT : ROSEBUD
 REFERENCE : SL-D396-00
 REPORTED : 24 MAR 2000

SAMPLES		Au(OZ)	Au(RZ)	Ag(OZ)
SL-D396-00	400.1-402.0	0.001		
SL-D396-00	402-407	<0.001		
SL-D396-00	407-412	0.001		
SL-D396-00	412.0-416.3	0.002	0.003	
SL-D396-00	416.3-418.7	0.096	0.099	
SL-D396-00	418.7-422.6	0.011		
SL-D396-00	422.6-425.4	0.005		
SL-D396-00	425.4-427.0	0.003		
SL-D396-00	427.0-431.7	0.001		
SL-D396-00	431.7-434.7	0.003		
SL-D396-00	434.7-436.0	0.001	0.001	
SL-D396-00	436-438	0.003		
SL-D396-00	438-442	0.001		
SL-D396-00	442-447	<0.001		
SL-D396-00	447-452	0.003		
SL-D396-00	452-457	0.005	0.009	
SL-D396-00	457.0-458.5	<0.001		
SL-D396-00	458.5-462.0	0.001		
SL-D396-00	462-467		SAMPLE NOT RECEIVED	
SL-D396-00	467-472	0.001		
SL-D396-00	472-477	0.001		
SL-D396-00	477.0-480.9	<0.001		
SL-D396-00	480.9-482.0	<0.001		
SL-D396-00	482-487	0.003		
SL-D396-00	487-489	<0.001		

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP056846

CLIENT : HECLA MINING COMPANY
 PROJECT : ROSEBUD
 REFERENCE : SL-D396-00
 REPORTED : 24 MAR 2000

SAMPLES		Au(OZ)	Au(RZ)	Ag(OZ)
SL-D396-00	489.0-491.7	<0.001		
SL-D396-00	491.7-492.2	0.002		
SL-D396-00	492.2-494.5	0.002		
SL-D396-00	494.5-497.0	<0.001		
SL-D396-00	497-503	<0.001		
SL-D396-00	503-504	<0.001		
SL-D396-00	504-505	<0.001		
SL-D396-00	505.0-507.2	<0.001		
SL-D396-00	507.2-512.0	<0.001		
SL-D396-00	512-516	<0.001		
SL-D396-00	516-522	<0.001		
SL-D396-00	522-527	<0.001	0.001	
SL-D396-00	527-532	<0.001		
SL-D396-00	532-540	<0.001		
76027		0.380		













































