60001507

Mining District File Summary Sheet

DISTRICT	Rosebud
DIST_NO	4010
COUNTY If different from written on document	Pershing
TITLE If not obvious	Rosebud Drill Hole File - Hole No. 94-341C
AUTHOR	C. Muerhoff; S. Fairclath
DATE OF DOC(S)	1994
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. South Zone
COMMODITY If not obvious	gold silver
NOTES	Drill log; geology; assay; total depth 601' handwritten notes receipt 28p.

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

SS: DD 5/29/08
Initials Date
DB: MAH
Initials Date
SCANNED: NV Blue
Initials Date

Revised: 1/22/08

94-341c

60001517 4010

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60001517

Hecla
MINING COMPANY

ROSEBUD PROJECT
DIAMOND DRILL LOG

HOLE NUMBER	94-341	LOCATION	SOUTH ZONE
PAGE 1 OF 8		NORTHING	2203255.1
DATE	12/12	EASTING	481311.4
LOGGED BY		ELEVATION	5421.8
SCALE	RC 1"=20' CORE 1"=10'	AZIMUTH	283.5°
TOTAL DEPTH	601	INCLINATION	-89.5°

REMARKS
RC to 255 rapid log
CORE from 255 to 600 quick log

REC	RQD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
		0-115 Happle green silicic volcaniclastic chips FeOx on fractures, minor clay coatings, rare blk carb, altered PY.	20, 40, 60, 80, 100			0-165 mod FeOx mod sil, wk chl

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2	Ag2
0	15	15				
15	25					
25	35					
35	45					
45	55					
55	65					
65	75					
75	85					
85	95					
95	105					

HOLE NUMBER 94-341 PAGE 2 OF 8

REC	RQD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
		315-165 pink hem chips, white, bleached Argillic chips, minor lt apple green chips	120, 140, 160			315-165 mod sil-Argillic Alt v. wk chl
		165-255 mod gray/green fine grain. Volcaniclastic chips w/ minor FeOx	180, 200, 220, 240			145-255 minor white clay chips; 165-215 wk FeOx wk sil, wk-mod chl minor white clay chips; 215-255 wk sil overprint, primary chl wk-qtz vn ± py minor white clay chips

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2	Ag2
105	115	10				
115	125	10				
125	135	10				
135	145	10				
145	155	10				
155	165	10				
165	175	10				
175	185	10				
185	195	10				
195	205	10				
205	215	10				
215	225	10				
225	235	10				
235	245	10				

HOLE NUMBER 84-341 PAGE 3 OF 8

FEC	RQD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2	Ag2
			260				245	255	10				
			280				255	265	10				
			300				265	275	10				
			320				275	285	10				
			340				285	295	10				
			360				295	305	10				
			380				305	315	10				
							315	325	10				
							325	335	10				
							335	345	10				
							345	355	10				
							355	365	10				
							365	375	10				
							375	385	10				

HOLE NUMBER 94-341C PAGE 1 OF "Quick Log" C. Muehlhoff

%REC	RQD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
		RC to 255' ; 255'-600.1' HQ Core 255'-283.3' LBT. Light green bedded zsh tuff @ ±50° to core axis.	255' 260 270 280		255'-283.3' Interval is highly fractured @ 30° & 50° to core axis w/ abundant illite/smectite ± grey pyritic clay on surfaces. 283.3' Sharp contact @80° to core axis.	
		283.3'-292' Matrix-supported monolithic tuff breccia w/ light-to-dark green chloritized angular zshy tuff fragments in a weakly hematitic grey lithic-tuffaceous groundmass.	290			
		292'-307.2' Light green, clay-altered vfg lapilli tuff. Hydrothermally brecciated & cemented by grey chalcedony (tuff frags are not silicified). 307.2'-345.8' Matrix-supported (nearly clast-supported) heterolithic tuff breccia w/ green rounded vfg tuff frags w/ tiny chloritic "blebs" + sub-angular, extremely argillized frags (no remnant textures) + tan, aphanitic (continued)	300 310 320		307.2' sharp contact @75° to core axis w/ 1½" black chalcedony vein.	292'-307.2' brecciated by thin pyrite + marcasite + illite ± chlorite stringers @ no preferential orientation. 307.2'-345.8 Illite + grey pyritic clays on fracture surfaces.

ANALYTICAL DATA						
FROM	TO	W	Au	Ag	Au2	Ag2
255	260	5	0.003	0.08		
260	265	5	0.003	0.05		
265	270	5	0.002	0.07		
270	275	5	0.002	0.04		
275	280	5	0.002	0.07		
280	283.3	3.3	0.005	0.06		
283.3	288	4.7	0.002	0.06		
288	292	4	0.002	0.08		
292	297	5	0.001	0.04	<0.001	
297	302	5	0.001	0.04		
302	307.2	5.2	0.001	0.05		
307.2	312	4.8	0.004	0.08		
312	317	5	0.003	0.08		
317	322	5	0.004	0.07		

HOLE NUMBER 94-341C PAGE 2 OF

%REC	RQD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
		(continued) sub-rounded frags ; all in light grey lithic tuff, med-grain groundmass. Becomes clast-supported w/ depth.	320 330 340		322'-326' Fault? Can't determine; core is completely ground up. Abundant illite + green clay. parallel to 30° to core axis? No apparent offset across interval.	
		345.8'- 426.3' Rapid gradational change into monolithic pink-matrix (alunitic) tuff breccia. Matrix-supported w/ clast-to-matrix of ~ 30/70. Tuff frags display alteration ranging from nil to intense argillization (but appears all are identical lithology).	350 360 370 380 390			345.8'- 426.3' Interval is cut by pyrite + illite / "duck's butter spiderweb stockwork w/ veinlets occassionally up to 1" thick. - past 360', begin to pick up white chalcedony + pyrite veinlets @ 35° to core axis & carbonaceous stringers @ ± 55° to core axis.

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2	Ag2
322	327	5	0.003	0.07		
327	332	5	0.004	0.11		
332	337	5	0.004	0.08		
337	342	5	0.003	0.08		
342	345.8	3.8	0.004	0.12		
345.8	350	4.2	0.004	0.12		
350	355	5	0.007	0.15	0.007	
355	360	5	0.005	0.13		
360	365	5	0.004	0.10		
365	370	5	0.004	0.08		
370	375	5	0.003	0.08		
375	380	5	0.006	0.10		
380	385	5	0.008	0.10		
385	390	5	0.004	0.09		

HOLE NUMBER 94-341C PAGE 3 OF

%REC	RQD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
		@ 411', breccia includes large (≥ core diameter) fragments of finely-bedded, highly contorted laminated tuff.	390, 400, 410			
		426.3'-452.8' gradational into vfg, very finely laminated tan & green tuff.	420, 430		426' bedding @ 15° ± to core axis. (contorted bedding)	426.3'-452.8' laminated tuff is cut by chlorite ± pyrite ± AgS stringers @ ± 15° to core axis.
			440		440' bedding @ 40° to core axis. (planar bedding)	
		452.8'-527.5' Thinly-laminated tuff continues, but now v. strongly brecciated (clast-supported w/ little to no rotation of clasts) & cemented by calcite to ~ 480'. Distal influence of South Ridge Fault.	450, 460		452.8' 6" fault w/ ground up rock frags of units above & below w/ abundant illite + coarse pyrite. ± 60° to core axis.	452.8' abundant illite on fractures @ parallel & 30° to core axis and as breccia cement.

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2	Ag2
390	395	5	0.009	0.09		
395	400	5	0.021	0.26		
400	405	5	0.042	1.44	0.044	
405	410	5	0.004	0.30		
410	415	5	0.015	1.28		
415	420	5	0.008	0.25		
420	426.3	6.3	0.348	8.40	0.373	(grav)
426.3	430	3.7	0.921	24.00	0.895	(grav)
430	435	5	0.149	7.10	0.153	(grav)
435	440	5	0.009	0.42		
440	445	5	0.024	0.13		
445	452.8	7.8	0.002	0.04		
452.8	457	4.2	0.003	0.04		
457	462	5	0.004	0.03		

HOLE NUMBER 94-341C PAGE 4 OF

%REC	RQD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
		brecciated, thinly laminated tuff continues.	460			
			470			
			480		481'-488' Shear Zone. Core is crushed & sheared @ ± 40° to core axis w/ abundant chloritic/pyritic clay ± illite.	
		- past 488', laminated tuff continues, but with only mild brecciation & calcite cementation.	490		490' bedding @ ± 55° to core axis.	
			500		488'-544.6' Abundant, randomly oriented chlorite ± pyrite ± illite stringers.	
			510			
		@ 513' brecciation increases dramatically. Mosaic texture w/ calcite cement.	520			
		@ 523'-527.5' Core is completely groundup	530			

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2	Ag2
462	467	5	0.003	0.03		
467	472	5	0.005	0.04		
472	477	5	0.002	0.03		
477	481	4	0.004	0.02		
481	488	7	0.010	0.06		
488	493	5	0.003	0.03		
493	498	5	0.003	0.03		
498	503	5	0.007	0.04		
503	508	5	0.005	0.04		
508	513	5	0.004	0.04		
513	518	5	0.014	0.03		
518	523	5	0.003	0.03		
523	527.5	4.5	0.011	0.06		
527.5	533	5.5	0.064	0.09	0.037	Au3 0.046 (grav)

HOLE NUMBER 94-341C PAGE 5 OF 5

%REC	RQD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
		527.5'-544.6' Strongly sheared tuff/tuff breccia w/ sporadic intervals of matrix-supported tuff breccia. Nearly all of interval is sheared & consists of "punky" rock flour displaying remnant textures. 544.6'-600.1' Dozer Fm. vfg to aphanitic "fresh" flow. Faint flow foliation @ ± ⊥ to core axis. Rapidly grades into massive texture. 6" minor brecciation on immediate FW of SRF. T.D. 600.1'	530 540 550 560 570 580 590 600		531' shear ∡ @ 50° to core axis. 539' shear ∡ @ 40° to core axis. 544.6' Sharp FW of SRF @ 40° to core axis.	

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2	Ag2
533	538	5	0.021	0.04		
538	544.6	6.6	<0.001	<0.02		
544.6	550	5.4				
550	555	5				
555	560	5			<0.001	
560	565	5				
565	570	5				
570	575	5				
575	580	5				
580	585	5				
585	590	5				
590	595	5				
595	600.1	5.1				

American Assay Laboratories

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

(702) 356-0606

INVOICE NO: SP 0031531-IN
INVOICE DATE: 11/16/94

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
C. MUERHOFF	ROSEBUD 94-341	NET 30

QUANTITY	DESCRIPTION	PRICE	AMOUNT
69	SAMPLES RECEIVED	.00	.00
69	JAW CRUSHING CHARGE	2.10	165.00
69	COARSE MILLING CHARGE	8.00	552.00
69	SPLITTING CHARGE	2.00	138.00
69	KEEGOR MILLING CHARGE	2.00	138.00
69	BLENDING CHARGE	1.00	69.00
69	RING MILLING CHARGE	1.50	103.50
69	Au (2 A.T. FIRE ASSAY)	9.50	655.50
4	Au ANALYSES/GRAVIMETRIC	10.00	40.00
69	HYDROCHLORIC/NITRIC DIGESTION	2.00	138.00
69	Ag ANALYSES	.80	55.20
3	Ag (ore grade) ANALYSES	5.00	15.00

OK to pay
140140-477
CM

NET INVOICE:	2,069.80
LESS DISCOUNT:	620.94
FREIGHT:	.00
INVOICE TOTAL:	1,448.86

ANALYSIS REPORT

American Assay Laboratories

P.O. BOX 71060
RENO, NV,,U.S.A.,
Ph.1-702-356-0606, Fax.1-702-356-1413
Telex:

HECLA MINING CO.

COPIES TO : CHARLIE MUERHOFF
:
:
:

CLIENT REFERENCE No: 94-341
LABORATORY JOB No. : SP031531
SAMPLE TYPE :

RECEIVED : 4 NOV 1994
REPORTED : 14 NOV 1994
No. SAMPLES : 69

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

SIGNATORY : Sue Faircloth M.S.

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT

American Assay Laboratories

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : 94-341
JOB NUMBER : SP031531
REPORTED : 14 NOV 1994

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
94-341 255-260	0.003			0.08
94-341 260-265	0.003			0.05
94-341 265-270	0.002			0.07
94-341 270-275	0.002			0.04
94-341 275-280	0.002			0.07
94-341 280-283.3	0.005			0.06
94-341 283.3-288	0.002			0.06
94-341 288-292	0.002			0.08
94-341 292-297	0.001	<0.001		0.04
94-341 297-302	0.001			0.04
94-341 302-307.2	0.001			0.05
94-341 307.2-312	0.004			0.08
94-341 312-317	0.003			0.08
94-341 317-322	0.004			0.07
94-341 322-327	0.003			0.07
94-341 327-332	0.004			0.11
94-341 332-337	0.004			0.08
94-341 337-342	0.003			0.08
94-341 342-345.8	0.004			0.12
94-341 345.8-350	0.004			0.12
94-341 350-355	0.007	0.007		0.15
94-341 355-360	0.005			0.13
94-341 360-365	0.004			0.10
94-341 365-370	0.004			0.08
94-341 370-375	0.003			0.08

AMERICAN ASSAY LABORATORIES
ANALYSIS REPORT

American Assay Laboratories

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : 94-341
JOB NUMBER : SP031531
REPORTED : 14 NOV 1994

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
94-341 375-380	0.006			0.10
94-341 380-385	0.008			0.10
94-341 385-390	0.004			0.09
94-341 390-395	0.009			0.09
94-341 395-400	0.021			0.26
94-341 400-405	0.042	0.044		1.44
94-341 405-410	0.004			0.30
94-341 410-415	0.015			1.28
94-341 415-420	0.008			0.25
94-341 420-426.3	0.348		0.373	8.40
94-341 426.3-430	0.921		0.895	24.00
94-341 430-435	0.149		0.153	7.10
94-341 435-440	0.009			0.42
94-341 440-445	0.024			0.13
94-341 445-452.8	0.002			0.04
94-341 452.8-457	0.003			0.04
94-341 457-462	0.004			0.03
94-341 462-467	0.003			0.03
94-341 467-472	0.005			0.04
94-341 472-477	0.002			0.03
94-341 477-481	0.004			0.02
94-341 481-488	0.010			0.06
94-341 488-493	0.003			0.03
94-341 493-498	0.003			0.03
94-341 498-503	0.007			0.04

AMERICAN ASSAY LABORATORIES
ANALYSIS REPORT

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CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : 94-341
JOB NUMBER : SP031531
REPORTED : 14 NOV 1994

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
94-341 503-508	0.005			0.04
94-341 508-513	0.004			0.04
94-341 513-518	0.014			0.03
94-341 518-523	0.003			0.03
94-341 523-527.5	0.011			0.06
94-341 527.5-533	0.064	0.037	0.046	0.09
94-341 533-538	0.021			0.04
94-341 538-544.6	<0.001			<0.02
94-341 544.6-550	<0.001			<0.02
94-341 550-555	<0.001			<0.02
94-341 555-560	<0.001	<0.001		<0.02
94-341 560-565	<0.001			<0.02
94-341 565-570	<0.001			<0.02
94-341 570-575	<0.001			<0.02
94-341 575-580	<0.001			<0.02
94-341 580-585	<0.001			<0.02
94-341 585-590	<0.001			<0.02
94-341 590-595	<0.001			<0.02
94-341 595-600	<0.001			<0.02

ANALYSIS REPORT

American Assay Laboratories

P.O. BOX 71060
RENO, NV,,U.S.A.,
Ph.1-702-356-0606, Fax.1-702-356-1413
Telex:

HECLA MINING CO.

COPIES TO : CHARLIE MUERHOFF

:

:

:

CLIENT REFERENCE No: 94-341

LABORATORY JOB No. : SP031531

SAMPLE TYPE :

RECEIVED : 4 NOV 1994

REPORTED : 14 NOV 1994

No. SAMPLES : 69

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

SIGNATORY : Sue Faircloth M.S.

AMERICAN ASSAY LABORATORIES
ANALYSIS REPORT

American Assay Laboratories

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : 94-341
JOB NUMBER : SP031531
REPORTED : 14 NOV 1994

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
94-341 255-260	0.003			0.08
94-341 260-265	0.003			0.05
94-341 265-270	0.002			0.07
94-341 270-275	0.002			0.04
94-341 275-280	0.002			0.07
94-341 280-283.3	0.005			0.06
94-341 283.3-288	0.002			0.06
94-341 288-292	0.002			0.08
94-341 292-297	0.001	<0.001		0.04
94-341 297-302	0.001			0.04
94-341 302-307.2	0.001			0.05
94-341 307.2-312	0.004			0.08
94-341 312-317	0.003			0.08
94-341 317-322	0.004			0.07
94-341 322-327	0.003			0.07
94-341 327-332	0.004			0.11
94-341 332-337	0.004			0.08
94-341 337-342	0.003			0.08
94-341 342-345.8	0.004			0.12
94-341 345.8-350	0.004			0.12
94-341 350-355	0.007	0.007		0.15
94-341 355-360	0.005			0.13
94-341 360-365	0.004			0.10
94-341 365-370	0.004			0.08
94-341 370-375	0.003			0.08

AMERICAN ASSAY LABORATORIES
ANALYSIS REPORT

American Assay Laboratories

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : 94-341
JOB NUMBER : SP031531
REPORTED : 14 NOV 1994

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
94-341 375-380	0.006			0.10
94-341 380-385	0.008			0.10
94-341 385-390	0.004			0.09
94-341 390-395	0.009			0.09
94-341 395-400	0.021			0.26
94-341 400-405	0.042	0.044		1.44
94-341 405-410	0.004			0.30
94-341 410-415	0.015			1.28
94-341 415-420	0.008			0.25
94-341 420-426.3	0.348		0.373	8.40
94-341 426.3-430	0.921		0.895	24.00
94-341 430-435	0.149		0.153	7.10
94-341 435-440	0.009			0.42
94-341 440-445	0.024			0.13
94-341 445-452.8	0.002			0.04
94-341 452.8-457	0.003			0.04
94-341 457-462	0.004			0.03
94-341 462-467	0.003			0.03
94-341 467-472	0.005			0.04
94-341 472-477	0.002			0.03
94-341 477-481	0.004			0.02
94-341 481-488	0.010			0.06
94-341 488-493	0.003			0.03
94-341 493-498	0.003			0.03
94-341 498-503	0.007			0.04

AMERICAN ASSAY LABORATORIES
ANALYSIS REPORT

American Assay Laboratories

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : 94-341
JOB NUMBER : SP031531
REPORTED : 14 NOV 1994

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
94-341 503-508	0.005			0.04
94-341 508-513	0.004			0.04
94-341 513-518	0.014			0.03
94-341 518-523	0.003			0.03
94-341 523-527.5	0.011			0.06
94-341 527.5-533	0.064	0.037	0.046	0.09
94-341 533-538	0.021			0.04
94-341 538-544.6	<0.001			<0.02
94-341 544.6-550	<0.001			<0.02
94-341 550-555	<0.001			<0.02
94-341 555-560	<0.001	<0.001		<0.02
94-341 560-565	<0.001			<0.02
94-341 565-570	<0.001			<0.02
94-341 570-575	<0.001			<0.02
94-341 575-580	<0.001			<0.02
94-341 580-585	<0.001			<0.02
94-341 585-590	<0.001			<0.02
94-341 590-595	<0.001			<0.02
94-341 595-600	<0.001			<0.02

PROVISIONAL REPORT

P.O. BOX 71060
RENO, NV,,U.S.A.,
Ph.1-702-356-0606, Fax.1-702-356-1413
Telex:

HECLA MINING CO.

COPIES TO : CHARLIE MUERHOFF

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:

CLIENT REFERENCE No: 94-341 RECEIVED : 9 NOV 1994

LABORATORY JOB No. : SP031644 REPORTED : 15 NOV 1994

SAMPLE TYPE : No. SAMPLES : 25

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au	FA30	15%	ppb	5
Au(R)	FA30	15%	ppb	5

PROVISIONAL REPORT

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Telex:

[redacted]

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CLIENT REFERENCE No: 94-341 RECEIVED : 4 NOV 1994

LABORATORY JOB No. : SP031531 REPORTED : 14 NOV 1994

SAMPLE TYPE : No. SAMPLES : 69

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

[redacted]

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : 94-341
JOB NUMBER : SP031644
REPORTED : 15 NOV 1994

94-341 00-15	25	
94-341 15-25	38	
94-341 25-35	100	
94-341 35-45	57	
94-341 45-55	64	
94-341 55-65	DTF	
94-341 65-75	62	
94-341 75-85	48	53
94-341 85-95	48	
94-341 95-105	42	
94-341 105-115	70	
94-341 115-125	48	
94-341 125-135	51	
94-341 135-145	54	
94-341 145-155	62	
94-341 155-165	98	
94-341 165-175	104	97
94-341 175-185	106	
94-341 185-195	100	
94-341 195-205	124	
94-341 205-215	362	
94-341 215-225	102	
94-341 225-235	103	
94-341 235-245	102	
94-341 245-255	85	

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : 94-341
JOB NUMBER : SP031531
REPORTED : 14 NOV 1994

SAMPLE NO.	Au(OZ)	Au(OZ)	AuGRAV	Ag(OZ)
94-341 255-260	0.003			0.08
94-341 260-265	0.003			0.05
94-341 265-270	0.002			0.07
94-341 270-275	0.002			0.04
94-341 275-280	0.002			0.07
94-341 280-283.3	0.005			0.06
94-341 283.3-288	0.002			0.06
94-341 288-292	0.002			0.08
94-341 292-297	0.001	<0.001		0.04
94-341 297-302	0.001			0.04
94-341 302-307.2	0.001			0.05
94-341 307.2-312	0.004			0.08
94-341 312-317	0.003			0.08
94-341 317-322	0.004			0.07
94-341 322-327	0.003			0.07
94-341 327-332	0.004			0.11
94-341 332-337	0.004			0.08
94-341 337-342	0.003			0.08
94-341 342-345.8	0.004			0.12
94-341 345.8-350	0.004			0.12
94-341 350-355	0.007	0.007		0.15
94-341 355-360	0.005			0.13
94-341 360-365	0.004			0.10
94-341 365-370	0.004			0.08
94-341 370-375	0.003			0.08

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : 94-341
JOB NUMBER : SP031531
REPORTED : 14 NOV 1994

[illegible]	[illegible] Au(OZ)	Au GRAV	Au(OZ)
94-341 375-380	0.006		0.10
94-341 380-385	0.008		0.10
94-341 385-390	0.004		0.09
94-341 390-395	0.009		0.09
94-341 395-400	0.021		0.26
94-341 400-405	0.042	0.044	1.44
94-341 405-410	0.004		0.30
94-341 410-415	0.015		1.28
94-341 415-420	0.008		0.25
94-341 420-426.3	0.348	0.373	8.40
94-341 426.3-430	0.921	0.895	24.00
94-341 430-435	0.149	0.153	7.10
94-341 435-440	0.009		0.42
94-341 440-445	0.024		0.13
94-341 445-452.8	0.002		0.04
94-341 452.8-457	0.003		0.04
94-341 457-462	0.004		0.03
94-341 462-467	0.003		0.03
94-341 467-472	0.005		0.04
94-341 472-477	0.002		0.03
94-341 477-481	0.004		0.02
94-341 481-488	0.010		0.06
94-341 488-493	0.003		0.03
94-341 493-498	0.003		0.03
94-341 498-503	0.007		0.04

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PROVISIONAL REPORT

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : 94-341
JOB NUMBER : SP031531
REPORTED : 14 NOV 1994

SAMPLE ID	Au(OZ)	Au(FZ)	Au(GRAV	Ag(OZ)
94-341 503-508	0.005			0.04
94-341 508-513	0.004			0.04
94-341 513-518	0.014			0.03
94-341 518-523	0.003			0.03
94-341 523-527.5	0.011			0.06
94-341 527.5-533	0.064	0.037	0.046	0.09
94-341 533-538	0.021			0.04
94-341 538-544.6	<0.001			<0.02
94-341 544.6-550	<0.001			<0.02
94-341 550-555	<0.001			<0.02
94-341 555-560	<0.001	<0.001		<0.02
94-341 560-565	<0.001			<0.02
94-341 565-570	<0.001			<0.02
94-341 570-575	<0.001			<0.02
94-341 575-580	<0.001			<0.02
94-341 580-585	<0.001			<0.02
94-341 585-590	<0.001			<0.02
94-341 590-595	<0.001			<0.02
94-341 595-600	<0.001			<0.02

American Assay Laboratories

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

(702) 356-0606

INVOICE NO: SP 0031644-IN
INVOICE DATE: 11/21/94

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
C. MUERHOFF	ROSEBUD 94-341	NET 30

QUANTITY	DESCRIPTION	PRICE	AMOUNT
25	SAMPLES RECEIVED	.00	.00
25	DRYING	.80	20.00
25	JAW CRUSHING CHARGE	1.20	30.00
25	SPLITTING CHARGE	1.00	25.00
25	KEEGOR MILLING CHARGE	2.00	50.00
25	Au (1 A.T. FIRE ASSAY)	7.25	181.25

OK to pay
140140-477
CM

NET INVOICE:	306.25
LESS DISCOUNT:	91.88
FREIGHT:	.00
INVOICE TOTAL:	214.37

ANALYSIS REPORT

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Telex:

HECLA MINING CO.

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CLIENT REFERENCE No: 94-341

LABORATORY JOB No. : SP031644

SAMPLE TYPE :

RECEIVED : 9 NOV 1994

REPORTED : 21 NOV 1994

No. SAMPLES : 25

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au	FA30	15%	ppb	5
Au(R)	FA30	15%	ppb	5

SIGNATORY : Sue Faircloth M.S.

AMERICAN ASSAY LABORATORIES
ANALYSIS REPORT

American Assay Laboratories

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : 94-341
JOB NUMBER : SP031644
REPORTED : 21 NOV 1994

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb
94-341 00-15	25	
94-341 15-25	38	
94-341 25-35	100	
94-341 35-45	57	
94-341 45-55	64	
94-341 55-65	312	259
94-341 65-75	62	
94-341 75-85	48	53
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94-341 185-195	100	
94-341 195-205	124	
94-341 205-215	362	
94-341 215-225	102	
94-341 225-235	103	
94-341 235-245	102	
94-341 245-255	85	

ANALYSIS REPORT

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HECLA MINING CO.

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CLIENT REFERENCE No: 94-341
LABORATORY JOB No. : SP031644
SAMPLE TYPE :

RECEIVED : 9 NOV 1994
REPORTED : 21 NOV 1994
No. SAMPLES : 25

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au	FA30	15%	ppb	5
Au(R)	FA30	15%	ppb	5

OK to pay
14314 - 477
CM

SIGNATORY : Sue Faircloth M.S.

AMERICAN ASSAY LABORATORIES
ANALYSIS REPORT

American Assay Laboratories

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : 94-341
JOB NUMBER : SP031644
REPORTED : 21 NOV 1994

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb
94-341 00-15	25	
94-341 15-25	38	
94-341 25-35	100	
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94-341 165-175	104	97
94-341 175-185	106	
94-341 185-195	100	
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94-341 205-215	362	
94-341 215-225	102	
94-341 225-235	103	
94-341 235-245	102	
94-341 245-255	85	