60001535

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. D-87-94
AUTHOR	M. Nelson; C. Muerhoff; S. Faircloth
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 240' handwritten notes 20p.

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: W BJC
Initials Date

Revised: 1/22/08

D-87-94 South Zone

60001535 4010

60001535

Hecla
MINING COMPANY

ROSEBUD PROJECT
DIAMOND DRILL LOG

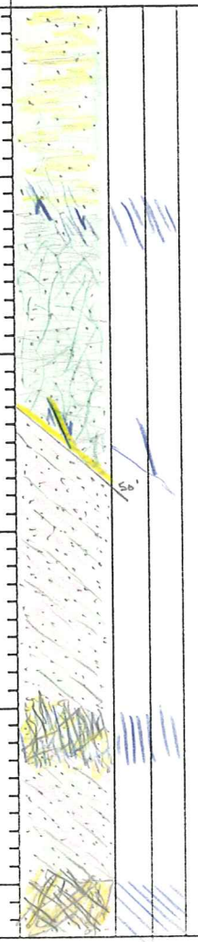
HOLE NUMBER	D87-94	LOCATION	South Zone	REMARKS	
PAGE 1 OF 1		NORTHING	2204001.3	quick log	
DATE	10/30/1994	EASTING	481822.6	0.15' core	
LOGGED BY	Martin A. Nelson	ELEVATION	4648.4	core photographed	
SCALE	none	AZIMUTH	90.5°	all core assayed.	
TOTAL DEPTH	240'	INCLINATION	-23.5°		

%REC	RQD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2	Ag2
		0'–25' Pale green fine tuff, typically not layered, locally brecciated, widely "micro-brecciated," medium green sericite/chlorite on fxs. Wkly-moderately silicified, Marc/$CaCO_3$ on fxs. 0'–12' "mod" hard, wkly-mod'lly SiO_2'd 12' wk. fault @ 20° 12'–24' Soft, argillized tuff, 10's of sericite/chlorite fxs/ft. 24' wk. fault @ 70°, gray SiO_2, 2" bx. 24'–25' mod SiO_2'd @25' 2" gray SiO_2/marc. veinlet @ 50° to c.a.			25'–225' continued.... 84'–85' Broken, rubbly, strong gray SiO_2, $BaSO_4$. +/- 25° to c.a. 95'–96' Broken, soft argillized zone, strong marcasite, white clays. 107.5'–109' 0.5' gray SiO_2 cement bx, strong white clays, interval @ 55° to c.a. 114' 6" fault zone @ 50° to c.a., white clays. 159'–160' Fault zone, soft, rubble, strong clay, chlorite, @ 55° to c.a. 122'–132' Strong white clays on all fxs 160'–165' Lithic tuff/bx'd 184'–186.5' Fault zone, v. broken, clays, strong marcasite – @ 10° to c.a. 200'–201.2' Fault zone, v. broken, strong green (pale) clays, gouge, @ 20°-25° to c.a. also bx'd w/ gray qtz. 209'–216' Broken/healed w/ s. gray qtz. bxs, pale green clays, ~50° to c.a.							
		25'–225' Pale green, tanish pink fine ash tuff. Local layering, fluidal structures, 10's of 1/32'-3/32" chlorite, marc, ser filled fxs/ft. Interval is mod-strongly SiO_2'd "rings" @ hammer blow. 40'–43' Broken, rubble zone @ 5° to c.a. Strong white clays, gray SiO_2, mod. marc. 50'–52' Broken, rubble zone @ +/- 50° to c.a. Strong white clays, soft, crumbly 65' layering @ 5° to c.a. 70'–74' Broken, SiO_2'd (gray) zone, strong white clays, marcasite, +/- 50° to c.a.			225'–240' EOH. Pale green, locally layered fine ash tuff. 225'–236' Broken, bx'd, healed w/ gray qtz. Mod marcasite, white clays w/ bxs. 232' layered @ 50° to c.a.							

Hecla
MINING COMPANY

ROSEBUD PROJECT
DIAMOND DRILL LOG

HOLE NUMBER	D-87-94	LOCATION	SOUTH ZONE	REMARKS	ORIENTATIONS STATED
PAGE 1 OF	4	NORTHING	2204001.3		AS ∡ TO CORE AXIS, CORE PHOTO'D
DATE	10-30 & 11-29-94	EASTING	481822.6		WHOLE CORE ASSAY SAMPLES; DDS #
LOGGED BY	M.A.N. & C.B.W.	ELEVATION	4648.4		SECTION N ; NQ CORE
SCALE	1" = 10'	AZIMUTH	90.5		
TOTAL DEPTH	240'	INCLINATION	-23.5°		

%REC	RQD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
		0-25' Pale green, fine-grained, massive-bedded airfall? tephra/tuff. Locally brecciated, "widely" micro brecciated, med. green sericitic/chloritic frac-coatings. Wk to mod. silic. w/ marc-$CaCO_3$ on frac's. (vitroclastic airfall tephra - LBT)	10, 20			0-12' mod. hard, wk-mod. silic. 12' wk frac'd? @20' 12-24' Soft, arg-T + +10/ft. ser/chl frac's
		25-225' Pale green, tanish pink fine ash tuff. Local layering, fluidal stx's, 10's of 1/32-3/32" chlorite, marc, ser.-filled frac's/ft. Mod. Strong -Silicified	30, 40, 50		40-57 (17') @ 0.16 opt Au 0.41 opt Ag	24' wk fault @ 20' w/ grey SiO_2, 2" bx 24-25' mod. silic. w/ 2" grey SiO_2/marc unit @50' 40-43' Broken, rubble zone @ 5°, strong wht clays gry SiO_2, mod. marc. 50-52' Broken, rubble zone @ ± 50° strong wht clays, soft, crumbly

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2	Ag2
0	6	6.0'	<.001	.02		
6	12	6.0'	.002	.05		
12	18	6.0'	.004	.07		
18	25	7.0'	.014	.11		
25	30	5.0'	.083	.21		
30	35	5.0'	.018	.03		
35	40	5.0'	.022	.03		
40	43	3.0'	.171	.31	.175 (g)	
43	56	7.0'	.105	.68	.107 (g)	

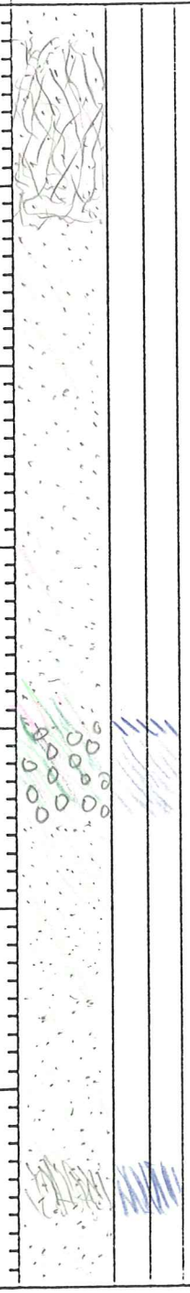
HOLE NUMBER D-87-94 PAGE 2 OF 4

REC	RQD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
			60			
					65' layering @ 5°	
			70		70-74' Broken silic. (gry) zone, strong wht clays, marc. ± 50°	
			80		Ba 84-85' Broken, rubbly, strong gray silic. + $BaSO_4$ @ ± 25°	
			90		95-96' Broken, soft argilliged zone, strong marc. & wht clays	
			100			
			110		107.5-109' 0.5' gray SiO_2 cemented bx, strong wht clays, interval @ 55°	
					114' 6" fault bx @ 50° w/ wht clays.	
			120			

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2	Ag2
50	52	2.0'	.127	.25	.146(g)	
52	57	5.0'	.244	.14	.243(g)	
57	62	5.0'	.03	.02		
62	67	5.0'	<.001	<.02		
67	70	3.0'	.026	.02		
70	74	4.0'	.063	.17	.072	
74	79	5.0'	.41	.08		
79	84	5.0'	.025	.09		
84	85	1.0'	.022	.11		
85	90	5.0'	.014	.06		
90	95	5.0'	.014	.08		
95	96	1.0'	.006	.09		
96	101	5.0'	.004	.04		
101	107.5	6.5'	.026	.03		
107.5	109	1.5'	.046	.07		
109	114	5.0'	.023	.07		
114	119	5.0'	.012	.05		

HOLE NUMBER D-87-94 PAGE 3 OF 4

REC	RQD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
			130, 140, 150, 160, 170, 180, 190		122-132' Strong wht. clays on all frac's. 122-137' (15') @ 0.10 opt Au 0.25 opt Ag 159-160' fault bx soft, rubble, strong clay, chlorite @ 55° 160-165' Lithic tuff - bx'd. 184-196' (12') @ 0.11 opt Au 0.31 opt Ag 184-186.5' fault zone, v. broken, clays, strong marc. @ 10°	

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2	Ag2
119	122	3.0'	.007	.05		
122	127	5.0'	.067	.33	.070(g)	
127	132	5.0'	.098	.19	.085(g)	
132	137	5.0'	.142	.22	.151(g)	
137	142	5.0'	.029	.08		
142	147	5.0'	.021	.10		
147	152	5.0'	.019	.10		
152	159	7.0'	.002	.05		
159	160	1.0'	.014	.19		
160	165	5.0'	.096	.19	.098	
165	170	5.0'	.003	.06		
170	175	5.0'	.034	.10		
175	180	5.0'	.030	.10		
180	184	4.0'	.015	.07		
184	186.5	2.5'	.109	.78		
186.5	192	5.5'	.096	.16	.083	

HOLE NUMBER D-87-94 PAGE 4 OF 4

REC	RQD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2	Ag2
							192	196	4.0'	.127	.23	.108(g)	
							196	200	4.0'	.016	.08		
			200			200-201.2' fault, v. broken strong green (pale) clays, gouge @ 20-25° also bx'd w/ gray qtz matrix?	200	201.2	1.2'	.025	.13		
							201.2	209	7.8'	.014	.06		
			210			209-216' Broken/healed w/ s. gray qtz bx's, pale green clays on 50° stx's	209	213	4.0'	.008	.06		
							213	216	3.0'	.018	.08		
			220				216	221	5.0'	.043?	.14		
							221	225	4.0'	.026	.11		
		225-240' Pale green, locally layered fine ash tuff.				225-236' Broken, bx'd, healed w/ gray qtz, Mod. marc. - wht clay w/ x/s (?)	225	230	5.0'	.052	.18	.048(g)	
			230		232' layered @ 50°		230	236	6.0'	.063	.19	.079(g)	
							236	240	4.0'	.009	.06		
		END OF HOLE @ 240'	240										

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 MUENHOFF
:
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:

CLIENT REFERENCE No: D-87-94 RECEIVED : 7 NOV 1994

LABORATORY JOB No. : SP031529 REPORTED : 15 NOV 1994

SAMPLE TYPE : No. SAMPLES : 53

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 Warrewood M.S.

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : D-87-94
JOB NUMBER : SP031529
REPORTED : 15 NOV 1994

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
D-87-94 00-06	<0.001			0.02
D-87-94 06-12	0.002			0.05
D-87-94 12-18	0.004			0.07
D-87-94 18-25	0.014			0.11
D-87-94 25-30	0.083		0.083	0.21
D-87-94 30-35	0.018			0.03
D-87-94 35-40	0.022			0.03
D-87-94 40-43	0.171		0.175	0.31
D-87-94 43-50	0.105		0.107	0.68
D-87-94 50-53	0.127		0.146	0.25

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Au(RZ)	FA60	15%	OPT	0.001
AuGRAV	GRAV	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT

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REFERENCE : D-87-94
JOB NUMBER : SP031529
REPORTED : 15 NOV 1994

SAMPLE	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
D-87-94 00-06	<0.001			0.02
D-87-94 06-12	0.002			0.05
D-87-94 12-18	0.004			0.07
D-87-94 18-25	0.014			0.11
D-87-94 25-30	0.083		0.083	0.21
D-87-94 30-35	0.018			0.03
D-87-94 35-40	0.022			0.03
D-87-94 40-43	0.171		0.175	0.31
D-87-94 43-50	0.105		0.107	0.68
D-87-94 50-52	0.127		0.146	0.25
D-87-94 52-57	0.244		0.243	0.14
D-87-94 57-62	0.003			0.02
D-87-94 62-67	<0.001			<0.02
D-87-94 67-70	0.026			0.02
D-87-94 70-74	0.063		0.072	0.17
D-87-94 74-79	0.041			0.08
D-87-94 79-84	0.025			0.09
D-87-94 84-85	0.022			0.11
D-87-94 85-90	0.014			0.06
D-87-94 90-95	0.014			0.08
D-87-94 95-96	0.006			0.09
D-87-94 96-101	0.004			0.04
D-87-94 101-107.5	0.026			0.03
D-87-94 107.5-109	0.046			0.07
D-87-94 109-114	0.023			0.07

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : D-87-94
JOB NUMBER : SP031529
REPORTED : 15 NOV 1994

D-87-94 114-119	0.012		0.05
D-87-94 119-122	0.007		0.05
D-87-94 122-127	0.067	0.070	0.33
D-87-94 127-132	0.098	0.085	0.19
D-87-94 132-137	0.142	0.151	0.22
D-87-94 137-142	0.029		0.08
D-87-94 142-147	0.021		0.10
D-87-94 147-152	0.019		0.10
D-87-94 152-159	0.002		0.05
D-87-94 159-160	0.014		0.19
D-87-94 160-165	0.096	0.098	0.19
D-87-94 165-170	0.003		0.06
D-87-94 170-175	0.034		0.10
D-87-94 175-180	0.030		0.10
D-87-94 180-184	0.015		0.07
D-87-94 184-186.5	0.109		0.78
D-87-94 186.5-192	0.096	0.083	0.16
D-87-94 192-196	0.127	0.108	0.23
D-87-94 196-200	0.016		0.08
D-87-94 200-201.2	0.025		0.13
D-87-94 201.2-209	0.014		0.06
D-87-94 209-213	0.008		0.06
D-87-94 213-216	0.018		0.08
D-87-94 216-221	0.045		0.14
D-87-94 221-225	0.026		0.11

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : D-87-94
JOB NUMBER : SP031529
REPORTED : 15 NOV 1994

SAMPLE	Au(OZ)	Au(PZ)	Au GRAV	Ag(OZ)
D-87-94 225-230	0.052		0.048	0.18
D-87-94 230-236	0.063		0.079	0.19
D-87-94 236-240	0.009			0.06

PROVISIONAL REPORT

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

[illegible] MINING CO.

COPIES TO : CHARLIE MUERHOFF

CLIENT REFERENCE No: D-87-94 RECEIVED : 7 NOV 1994

LABORATORY JOB No. : SP031529 REPORTED : 14 NOV 1994

SAMPLE TYPE : No. SAMPLES : 53

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 Fairchild-M.S. Page 3 of 4

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : D-87-94
JOB NUMBER : SP031529
REPORTED : 14 NOV 1994

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
D-87-94 00-06	<0.001			0.02
D-87-94 06-12	0.002			0.05
D-87-94 12-18	0.004			0.07
D-87-94 18-25	0.014			0.11
D-87-94 25-30	0.083		0.083	0.21
D-87-94 30-35	0.018			0.03
D-87-94 35-40	0.022			0.03
D-87-94 40-43	0.171		0.175	0.31
D-87-94 43-50	0.105		0.107	0.68
D-87-94 50-52	0.127		0.146	0.25
D-87-94 52-57	0.244		0.243	0.14
D-87-94 57-62	0.003			0.02
D-87-94 62-67	<0.001			<0.02
D-87-94 67-70	0.026			0.02
D-87-94 70-74	0.063		0.072	0.17
D-87-94 74-79	0.041			0.08
D-87-94 79-84	0.025			0.09
D-87-94 84-85	0.022			0.11
D-87-94 85-90	0.014			0.06
D-87-94 90-95	0.014			0.08
D-87-94 95-96	0.006			0.09
D-87-94 96-101	0.004			0.04
D-87-94 101-107.5	0.026			0.03
D-87-94 107.5-109	0.046			0.07
D-87-94 109-114	0.023			0.07

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : D-87-94
JOB NUMBER : SP031529
REPORTED : 14 NOV 1994

SAMPLES	Au(OZ)	Au(PZ)	AuGRAV	Ag(OZ)
D-87-94 114-119	0.012			0.05
D-87-94 119-122	0.007			0.05
D-87-94 122-127	0.067		0.070	0.33
D-87-94 127-132	0.098		0.085	0.19
D-87-94 132-137	0.142		0.151	0.22
D-87-94 137-142	0.029			0.08
D-87-94 142-147	0.021			0.10
D-87-94 147-152	0.019			0.10
D-87-94 152-159	0.002			0.05
D-87-94 159-160	0.014			0.19
D-87-94 160-165	0.096		0.098	0.19
D-87-94 165-170	0.003			0.06
D-87-94 170-175	0.034			0.10
D-87-94 175-180	0.030			0.10
D-87-94 180-184	0.015			0.07
D-87-94 184-186.5	0.109			0.78
D-87-94 186.5-192	0.096		0.083	0.16
D-87-94 192-196	0.127		0.108	0.23
D-87-94 196-200	0.016			0.08
D-87-94 200-201.2	0.025			0.13
D-87-94 201.2-209	0.014			0.06
D-87-94 209-213	0.008			0.06
D-87-94 213-216	0.018			0.08
D-87-94 216-221	0.043			0.14
D-87-94 221-225	0.026			0.11

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : D-87-94
JOB NUMBER : SP031529
REPORTED : 14 NOV 1994

SAMPLES	Au(OZ) Au(PZ) Au(FA/AV)	Ag(OZ)
D-87-94 225-230	0.052	0.18
D-87-94 230-236	0.063	0.19
D-87-94 236-240	0.009	0.06

D-87-94	0.0	6.0	6.0	LBT	0.000
D-87-94	6.0	12.0	6.0	LBT	0.002
D-87-94	12.0	18.0	6.0	LBT	0.004
D-87-94	18.0	25.0	7.0	LBT	0.014
D-87-94	25.0	30.0	5.0	LBT	0.083
D-87-94	30.0	35.0	5.0	LBT	0.018
D-87-94	35.0	40.0	5.0	LBT	0.022
D-87-94	40.0	43.0	3.0	LBT	0.171
D-87-94	43.0	50.0	7.0	LBT	0.105
D-87-94	50.0	52.0	2.0	LBT	0.127
D-87-94	52.0	57.0	5.0	LBT	0.244
D-87-94	57.0	62.0	5.0	LBT	0.003
D-87-94	62.0	67.0	5.0	LBT	0.000
D-87-94	67.0	70.0	3.0	LBT	0.026
D-87-94	70.0	74.0	4.0	LBT	0.063
D-87-94	74.0	79.0	5.0	LBT	0.041
D-87-94	79.0	84.0	5.0	LBT	0.025
D-87-94	84.0	85.0	1.0	LBT	0.022
D-87-94	85.0	90.0	5.0	LBT	0.014
D-87-94	90.0	95.0	5.0	LBT	0.014
D-87-94	95.0	96.0	1.0	LBT	0.006
D-87-94	96.0	101.0	5.0	LBT	0.004
D-87-94	101.0	107.5	6.5	LBT	0.026
D-87-94	107.5	109.0	1.5	LBT	0.046
D-87-94	109.0	114.0	5.0	LBT	0.023
D-87-94	114.0	119.0	5.0	LBT	0.012
D-87-94	119.0	122.0	3.0	LBT	0.007
D-87-94	122.0	127.0	5.0	LBT	0.067
D-87-94	127.0	132.0	5.0	LBT	0.098
D-87-94	132.0	137.0	5.0	LBT	0.142
D-87-94	137.0	142.0	5.0	LBT	0.029
D-87-94	142.0	147.0	5.0	LBT	0.021
D-87-94	147.0	152.0	5.0	LBT	0.019
D-87-94	152.0	159.0	7.0	LBT	0.002
D-87-94	159.0	160.0	1.0	LBT	0.014
D-87-94	160.0	165.0	5.0	LBT	0.096
D-87-94	165.0	170.0	5.0	LBT	0.003
D-87-94	170.0	175.0	5.0	LBT	0.034
D-87-94	175.0	180.0	5.0	LBT	0.030
D-87-94	180.0	184.0	4.0	LBT	0.015
D-87-94	184.0	186.5	2.5	LBT	0.109
D-87-94	186.5	192.0	5.5	LBT	0.096
D-87-94	192.0	196.0	4.0	LBT	0.127
D-87-94	196.0	200.0	4.0	LBT	0.016
D-87-94	200.0	201.2	1.2	LBT	0.025
D-87-94	201.2	209.0	7.8	LBT	0.014
D-87-94	209.0	213.0	4.0	LBT	0.008
D-87-94	213.0	216.0	3.0	LBT	0.018
D-87-94	216.0	221.0	5.0	LBT	0.043
D-87-94	221.0	225.0	4.0	LBT	0.026
D-87-94	225.0	230.0	5.0	LBT	0.052
D-87-94	230.0	236.0	6.0	LBT	0.063
D-87-94	236.0	240.0	4.0	LBT	0.009

SAMPLE SUBMITTAL FORM

American Assay Laboratories Inc.

Sparks Office
1500 Glendale Ave.
Nevada 89431
Box 71060
Reno, NV. 89570
Telephone
(702) 356-0606
Fax
(702) 356-1413

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

Company: Hecla Mining Co.

Address:

Telephone Number: ( ) Fax Number: ( )

Project Name: Rosebud Purchase Order Number:

Transport Company: Waybill Number:

Date Shipped: Number of Packages: [ ] Prepaid [ ] Collect

ANALYSIS REQUIRED

D87-94 SAMPLE				TYPE	ELEMENTS REQUIRED
0'—6'	74'—79'	137'-142'	201.2'-204'	CORE	2 AT FA Au + Ag
6'-12'	79'-84'	142'-147'	204'-213'		w/ Hecla/Rosebud custom prep
12'-18'	84'-85'	147'-152'	213'-216'		
18'-25'	85'-90'	152'-159'	216'-221		
25'-30'	90'-95'	159'-160'	221'-225'		
30'-35'	95'-96'	160'-165'	225'-230'		* Grav finish if Au ≥ .050 opt
35'-40'	96'-101'	165'-170'	230'-234'		
40'-43'	101'-107.5'	170'-175	236'-240'	E.O.H.	
43'-50'	107.5'-109'	175'-180'	~~240'~~		
50'-52'	109'—114'	180'-184'			
52'-57'	114'-119'	184'-186.5'			
57'-62'	119'-122'	186.5'-192'			
62'-67'	122'-127'	192'-196'			
67'-70'	127'-132'	196'-200'			
70'-74'	132'-137'	200'-201.2'			

COARSE REJECTS (Normally Discarded)

[ ] Return COD after analysis complete
[ ] By prior arrangements

PULPS (Normally Stored Free For One Month)

[ ] Discard after one month
[ ] Return COD after one month
[ ] By prior arrangements

RESULTS AND INVOICES TO BE SENT TO:

Please mark invoice person and address [I]

(1) Charles Muerhoff

(2)

(3)

Comments:

CLIENT FILE COPY

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: D-87-94

LABORATORY JOB No. : SP031529

SAMPLE TYPE :

RECEIVED : 7 NOV 1994

REPORTED : 17 NOV 1994

No. SAMPLES : 53

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 : D-87-94
JOB NUMBER : SP031529
REPORTED : 17 NOV 1994

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-87-94 00-06	<0.001			0.02
D-87-94 06-12	0.002			0.05
D-87-94 12-18	0.004			0.07
D-87-94 18-25	0.014			0.11
D-87-94 25-30	0.083		0.083	0.21
D-87-94 30-35	0.018			0.03
D-87-94 35-40	0.022			0.03
D-87-94 40-43	0.171		0.175	0.31
D-87-94 43-50	0.105		0.107	0.68
D-87-94 50-52	0.127		0.146	0.25
D-87-94 52-57	0.244		0.243	0.14
D-87-94 57-62	0.003			0.02
D-87-94 62-67	<0.001			<0.02
D-87-94 67-70	0.026			0.02
D-87-94 70-74	0.063		0.072	0.17
D-87-94 74-79	0.041			0.08
D-87-94 79-84	0.025			0.09
D-87-94 84-85	0.022			0.11
D-87-94 85-90	0.014			0.06
D-87-94 90-95	0.014			0.08
D-87-94 95-96	0.006			0.09
D-87-94 96-101	0.004			0.04
D-87-94 101-107.5	0.026			0.03
D-87-94 107.5-109	0.046			0.07
D-87-94 109-114	0.023			0.07

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT

American Assay Laboratories

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : D-87-94
JOB NUMBER : SP031529
REPORTED : 17 NOV 1994

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-87-94 114-119	0.012			0.05
D-87-94 119-122	0.007			0.05
D-87-94 122-127	0.067		0.070	0.33
D-87-94 127-132	0.098		0.085	0.19
D-87-94 132-137	0.142		0.151	0.22
D-87-94 137-142	0.029			0.08
D-87-94 142-147	0.021			0.10
D-87-94 147-152	0.019			0.10
D-87-94 152-159	0.002			0.05
D-87-94 159-160	0.014			0.19
D-87-94 160-165	0.096		0.098	0.19
D-87-94 165-170	0.003			0.06
D-87-94 170-175	0.034			0.10
D-87-94 175-180	0.030			0.10
D-87-94 180-184	0.015			0.07
D-87-94 184-186.5	0.109			0.78
D-87-94 186.5-192	0.096		0.083	0.16
D-87-94 192-196	0.127		0.108	0.23
D-87-94 196-200	0.016			0.08
D-87-94 200-201.2	0.025			0.13
D-87-94 201.2-209	0.014			0.06
D-87-94 209-213	0.008			0.06
D-87-94 213-216	0.018			0.08
D-87-94 216-221	0.043			0.14
D-87-94 221-225	0.026			0.11

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT

American Assay Laboratories

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : D-87-94
JOB NUMBER : SP031529
REPORTED : 17 NOV 1994

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-87-94 225-230	0.052		0.048	0.18
D-87-94 230-236	0.063		0.079	0.19
D-87-94 236-240	0.009			0.06