60000812

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-9-94
AUTHOR	C. Wineteer; 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; Hecla Mining Co.; Rosebud Project South Zone
COMMODITY If not obvious	gold; silver
NOTES	Drill log; geology; assay; total depth 279' receipt; handwritten notes; stress/strain analysis 12p.

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 5/1/08
Initials Date
DB:
Initials Date
SCANNED:
Initials Date

Revised: 1/22/08

D-9-94

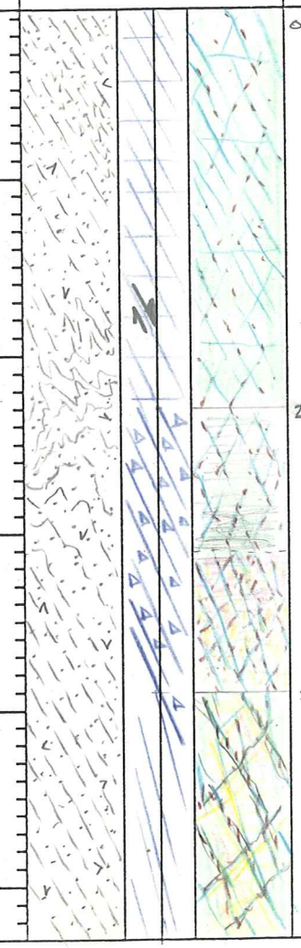
6000 0812
4010

60000812

Hecla
MINING COMPANY

ROSEBUD PROJECT
DIAMOND DRILL LOG

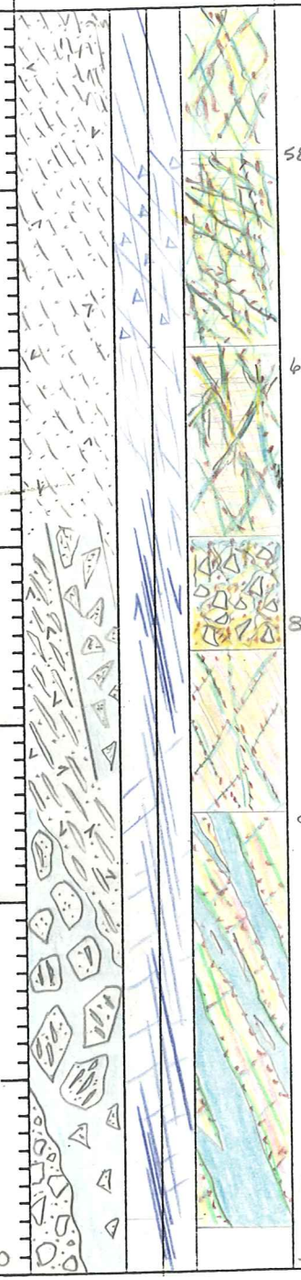
HOLE NUMBER	D-9-94	LOCATION	South Zone	REMARKS	ORIENTATIONS STATED
PAGE 1 OF 5		NORTHING	2203387.9		AS ∡ TO CORE AXIS; CORE PHOTO'D;
DATE	10-23-94	EASTING	481293.3		WHOLE CORE ASSAY SAMPLES;
LOGGED BY	CB WINETEER	ELEVATION	4743.8		DDS #3 ; SECTION 200N
SCALE	1" = 10'	AZIMUTH	125.0°		NDBGM CORE
TOTAL DEPTH	279'	INCLINATION	+70°		

%REC	RQD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
		0-85' Fine to medium grained, well-sorted planar, cross and flow-shear-laminated water lain (?) tephra/tuff. Siliceous, indurated, dense, moderately hard, pale sage-green to cream. Laminations generally @ 30' w/ numerous intervals of fracturing/brecciation w/ Carbonate-flooded fractures. 0-43' Rubble w/ ~ 0.10 RQD	10 20 30 40 50		0-23' dense fracturing >10/ft w/ $CaCO_3$ + ser ± sulf filled frac's @ 25-30° ⊥ to laminations & < 90° slicks w/ R & G's	0-23' wk silic + mod int. g/m ser-T + mod arg-T as salvages on $CaCO_3$ units + tr-1% v.f.g. cubic py-T + tr chl on frac's: min stx's >10/ft 0.001-0.30" $CaCO_3$ + ser + py & marc ± py ± marc ± chl.
					23-39' fault bx: in part cemented by $CaCO_3$/ill & in part post c. xln $CaCO_3$ princ. stx's @ 25° opposing underlying flow-lam. not as shown to left.	23-39' wk silic + wk ser-T + mod to int. arg-T + tr-1% py-T + tr. alun; min stx's >10/ft 0.005-0.35" $CaCO_3$ + py & marc in $CaCO_3$ + euhedral py-ohed. rons & dipyram. ◇ in ill. ± tr spl & cpy
					39-58' C. xln $CaCO_3$ + ill + marc filled vn bx's @ 15°	39-58' wk silic + v. wk lam. alun. + 1% py-T + wk arg-T + wk-mod ser-T + chl-T on frac's & lams; min stx's 5-10/ft @ 15°, 30° & ⊥ 30° 0.001-0.15" w/ $CaCO_3$ + f.g. xln Q + ill + py & marc.

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2	Ag2
0	5	5.0'	.004			
5	10	5.0'	.008			
10	15	5.0'	.047		.046	
15	20	5.0'	.017			
20	23	3.0'	.016			
23	28	5.0'	.237			
28	31	3.0'	.395			
31	35	4.0'	.103			
35	39	4.0'	.047			
39	44	5.0'	.028			
44	49	5.0'	.026			
49	54	5.0'	.011			

HOLE NUMBER D-9-94 PAGE 2 OF 5

REC	RQD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
		85-118' Lithic tuff: flow-laminated, fine-grained, elongated, flow-aligned/imbricated siliceous tephra fragments in a fine-grained siliceous-tuffaceous groundmass. Flow fabric planar & locally contorted, generally @ 30°. Pale pinkish grey, tan, cream and green. Moderately hard, dense, moderately to well indurated.	60, 70, 80, 90, 100, 110, 120		58-69' $CaCO_3$-ser frac-fill-in crackle bx on 40°; 10° stx's 69-84.5 - frac'd w/ $CaCO_3$-ill; chl-sulf; & ser-sulf. frac-fill. @ 35°; 10°; 30° 84.5-86.0' sharp planar fault contact @ 10° w/ hanging wall bx-fldd w/ $CaCO_3$ post $CaCO_3$-sulf slicks @ 10° 95-118' $CaCO_3$-bx vnlts @ 10-15° & 50° 118' undulating sharp fault contact @ 12° hanging wall matrix-supported bx w/ c. xln open-space $CaCO_3$ matrix	58-69' wk silic + wk ser-T + wk arg-T + 1% py-T + chl-T on frac's + tr. alun. min stx's - stkwk on >> 10/ft 10°/40° stx's 0.005-1.5+ $CaCO_3$ + Q + ser + ill + marc + py & marc + py 69-79.5' wk-mod. silic + wk arg-T + wk ser-T + wk lam. alun. + 1-2% f.g. cubic py-T + chl-T on lam's & frac's: min stx's 4-8/ft @ 35°; 10°; 30° 0.001-0.20", $CaCO_3$ + ser + Q + ill + chl di-morph. py + brassy py & marc + py + spl. 79.5-86' s.a.a. as frags in $CaCO_3$ + ill + py/marc Δt to SiO_2-ill-sulf (py) matrix. 86-95' mod. silic + wk arg-T + 2% diss marc/py py-T + lam. mod. alun + frac chl; min stx's 5/ft @ 25° (lam's), 15°, 60° 0.001-0.30" $CaCO_3$-chl-ser-marc-py & marc ± ill 95-118.5' s.a.a. x-cut by 15-25° c. xln open-space $CaCO_3$ + marc (also as f.g. inclusions); carbonaceous sooty frac's at borders of $CaCO_3$ vnlts. w/ carbon-coated marc. ± sulfosalts sericitic green clay & micro bx.

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2	Ag2
54	58	4.0'	.004			
58	62	4.0'	.005			
62	66	4.0'	.009			
66	69	3.0'	.010			
69	75	6.0'	.016			
75	79.5	4.5'	<.001			
79.5	83	3.5	.002			
83	86	3.0'	.003			
86	90	4.0'	<.001			
90	95	5.0'	.001			
95	100	5.0'	.004			
* 100	105	5.0'	.012		.011	
* 105	110	5.0'	.001			
* 110	115	5.0'	.005			
* 115	118.5	3.5	.014			

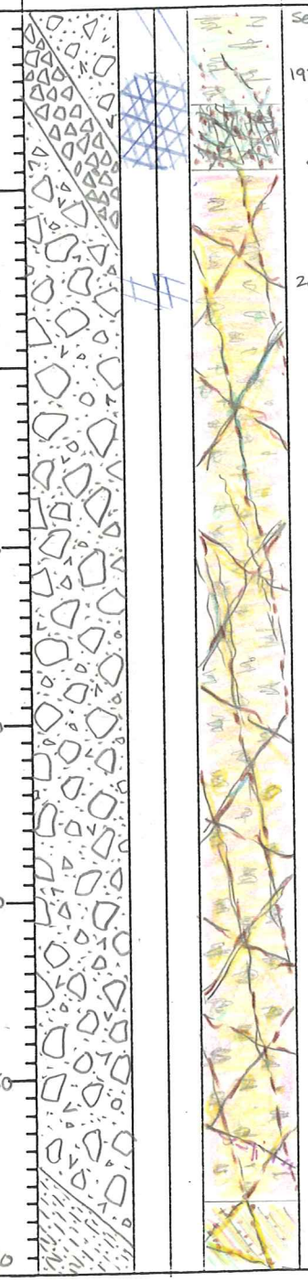
HOLE NUMBER D-9-94 PAGE 3 OF 5

REC	RQD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
		118–138.5' Lithic tuff breccia: matrix and clast-supported, poorly-sorted, fine-grained angular, irregular and sub-angular massive & laminated tephra/tuff fragments in a siliceous, alunitic-sericitic (tuffaceous) groundmass. Chaotic-bedded, heterolithic. Pale to medium pink, cream, green. Moderately hard, dense, well-indurated. Clasts range from ash to > core diam.	130		129-130' Rough ser-py slick @ 12' w/ strong R&G stx's @ 30° to dip of plain.	118.5–137.5' mod. int. silic + mod. alun + 2-3% py-T + relic ser clotts mod. arg-T ∂ clasts min stx's 2-3/ft 0.05" $CaCO_3$ + py (massive) + ser + manc ± spl @ 30°
		138.5–157.5' Flow-laminated fine-grained tephra & lithic waterlain tuff: fine-grained well-sorted, planar-laminated tephra & moderately-sorted, planar-laminated lithic tuff w/ tephra clasts. Laminations @ 30°.	140		138.5–152' c. xln. barren wht $CaCO_3$ flooded, crackle bx on 15' & 50° stx's. 142' ser-py slick w/ R&G stx's @ 20°	137.5–157.5' wk silic + mod arg-T + 1-2% cubic py-T + mod. ser-T; min stx's @ 5°-15°, 30° w/ c. xln open-space $CaCO_3$ + py ∂ manc + manc ± tr cpy/spl/electrum 0.05-3.0+"
		157.5–177.5' Clast-supported lithic tuff breccia: moderately sorted, heterolithic angular fine-grained tephra fragments in a sericitic-alunitic-siliceous fine-grained matrix.	150		152–157.5' c.g. xln $CaCO_3$ fld fault bx w/ wavy ser. slicks @ 15°	
			160		157–172' post $CaCO_3$-sulf slicks @ 40° to 25°	157.5–177.5' mod. silic + ↓ incr. arg-T (of clasts) + 2-4% cubic py-T + mod. ser-T: strong 1st order RR's; min stx's discont. minor .005" ser-$CaCO_3$-sulf (py ∂ manc + spl + tr ss.)
			170		172-173' post $CaCO_3$-sulf slick @ 15° w/ R&G stx's @ 80° to dip followed by clast-supported fault bx w/in pale green f.g. tephra post-sulf slick @ 60° w/ R&G stx's @ 75° to dip @ 174' fault bx + 177.5	
		177.5–194' Matrix-supported lithic tuff breccia: poorly-sorted, heterolithic, fine-grained, angular to sub rounded tephra fragments in a green siliceous-sericitic-pyritic matrix.	180		185' minor ser. slick @ 10°	177.5–194' mod. silic + mod. arg-T + wk alun + 2-4% cubic & bladed py-T + wk ser-T: 1st, 2nd & loc. 3rd order RR's; min stx's <1/ft $CaCO_3$ + py ∂ manc.
			190			

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2	Ag2
118.5	123	4.5'	.005			
123	128	5.0'	.001			
128	133	5.0'	.001			
133	137.5	4.5'	<.001			
* 137.5	143	5.5'	.003			
* 143	148	5.0'	.001			
* 148	153	5.0'	.002			
* 153	157.5	4.5'	.003			
157.5	162	4.5'	<.001			
162	167	5.0'	<.001			
167	172	5.0'	.003			
172	177.5	5.5'	.478			
177.5	182	4.5'	.001			
182	187	5.0'	.009			
187	193	6.0'	.007			

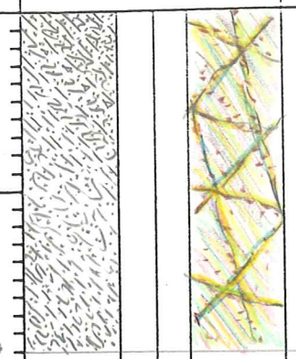
HOLE NUMBER D-9-94 PAGE 4 OF 5

REC	RQD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
		193.8-199' Clast-supported lithic tuff breccia w/ angular to rounded fragments in a carbonaceous-calcareous-illitic matrix. – disseminated f. g. carbonaceous trash in f. to med. grd. tuff. 199-257' Matrix-supported, poorly-sorted heterolithic (pink matrix) lithic tuff breccia: angular f. g. tephra fragments in a fine-grained siliceous-alunitic-pyritic matrix.	200 210 220 230 240 250 260		Ser-sulf slickes @ 30° 189-191 193.8' $CaCO_3$ vnlts @ 30° ↓ into clast-supported lithic tuff. w/ black greasy carbonaceous slicks @ 15', 40', 70' 205-207' ser-ss slicks @ 10° & 70° 257' BEDDED CONTACT @ 50° conformable w/ overlying flow-laminat.	194-199' s.a.a. w/ ↑ incr. $CaCO_3$ + ser + black carbonaceous slicks + py + cpy + ss + ill → strong. 199-257' mod to mod. int. silic + mod int. alun + ser-T (clasts) + 3-7% cubic + bladed py-T + wk to mod arg-T; RR's 1st to 2nd (w/ total silic/ or arg-T + py-T) ↓ 252' then 2nd & 3rd & 4th order min stx's 5', 40' ↓ 50' 0.005-0.10" f.g. xln Qss acc. ill + carbon-coated py ↑ marc + tr cpy 3-7/ft. 255' med. xln bar on 45° stx.

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2	Ag2
* 193	196	3.0'	.049		.045	
** 196	199	3.0'	.453			
* 199	201	2.0'	.160			
↓201 to 255	205	4.0'	.021			
205	210	5.0'	.041			
210	215	5.0'	.007			
215	220	5.0'	.007			
220	225	5.0'	.011			
225	230	5.0'	.042			
230	235	5.0'	.052			
235	240	5.0'	.007			
240	245	5.0'	.008		.010	
245	250	5.0'	.008			
250	255	5.0'	.005			
255	257	2.0'	.004			
257	262	5.0'	.005			

HOLE NUMBER D-9-94 PAGE 5 OF 5

REC	RQD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2	Ag2
		-266-279' increasing flow-shear & contorted flow-lamination w/ intermittant lam's at 45-50'	270			257-279' lam-banded mod int to int. silic/ser-T mod arg-T + spotty 2-5% cubic py-T + wk to mod alun (w/ silic): min stx's 4-8/ft @ s.a.a. 0.005-0.075" w/ Q → ± $CaCO_3$ → marc ±ill	262	267	5.0'	.004			
							267	272	5.0'	.003			
							272	277	5.0'	.003			
			279				277	279	2.0'	.004			
		279' END OF HOLE											

HAMMOND, COLLIER & WADE - LIVINGSTONE ASSOC., INC.
104 East Ninth Street
Wenatchee, washington 98807-2967
Phone: (509) 662-1762
Fax: (509) 663-8534

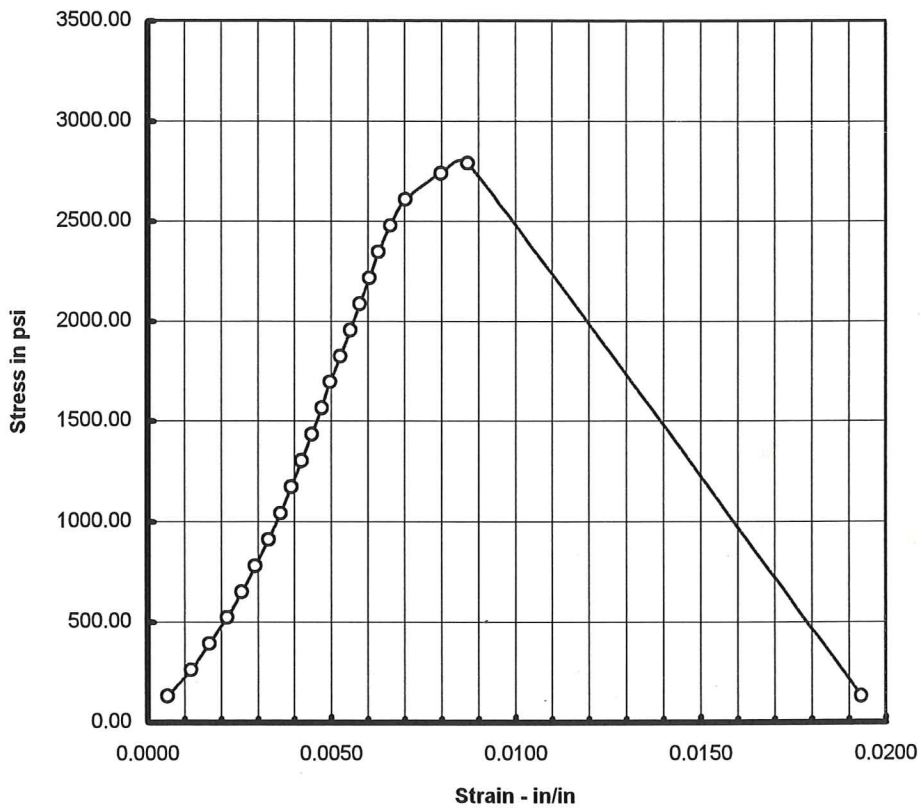
STRESS/STRAIN ANALYSIS

Client: HECLA MINING - ROSEBUD | Date: 9-14-94 | Lab No: 6197 | Job No. 94370

SPECIMEN NO. CST-8

PRESS READING lbs	GAGE READING .001"		
500	.0024		
1000	.0052		
1500	.0074		
2000	**.0095**		
2500	.0112		
3000	.0128		
3500	.0144		
4000	.0158		
4500	.0171		
5000	.0183		
5500	.0195		
6000	.0207		
6500	.0217		
7000	.0229		
7500	.0241		
8000	.0252		
8500	.0263		
9000	.0274		
9500	**.0288**		
10000	.0306		
10500	.0348		
10700	**.0380**		**BREAK**
500	.0842		

STRESS/STRAIN CURVE CST-8 (194.3 - 195.1)



SPECIMEN DIMENSIONS:

Weight:	1.2975 lbs
Height:	4.352"
Diameter:	2.210"
Surface Area:	3.836 Sq In
Comp. Strength	2789.36 psi
Unit Weight:	134.30 pcf

Modulus of Elasticity
E = 4.44E+05

Description of Break: Shear, Cone Per ASTM C-39

HAMMOND, COLLIER & WADE - LIVINGSTONE ASSOC., INC.

104 East Ninth Street
Wenatchee, washington 98807-2967
Phone: (509) 662-1762
Fax: (509) 663-8534

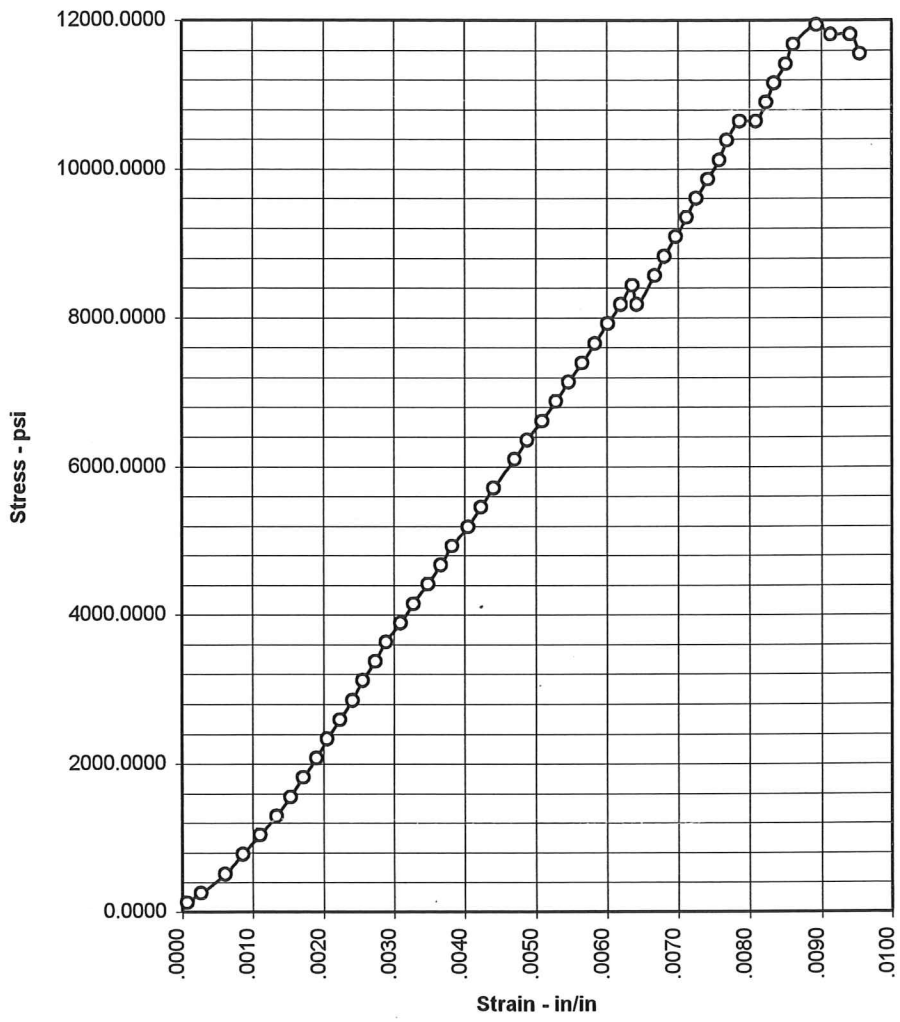
STRESS/STRAIN ANALYSIS

Client: HECLA MINING - ROSEBUD Date: 9/14/9 Lab No:6196 Job No. 94370

SPECIMEN NO. CST - 7

PRESS READING lbs	GAGE READING .001"	PRESS READIN lbs	GAGE READING .001"
500	.0003	27000	0.0239
1000	.0012	27500	0.0242
1500	.0019	28000	0.0247
2000	.0027	28500	0.025
2500	.0033	29000	0.0255
3000	.0038	29500	0.0258
3500	.0044	30000	0.0263
4000	.0049	30500	0.0266
4500	.0054	31000	0.0269
5000	.0059	31500	0.0274
5500	.0063	32000	0.0278
6000	.0068	32500	0.0281
6500	.0071	31500	0.0284
7000	.0076	32500	0.029
7500	.0080	33000	0.0295
8000	.0084	33500	0.0298
8500	.0088	34000	0.0301
9000	.0091	34500	0.0305
9500	.0095	35000	0.0308
10000	.0099	35500	0.03115
10500	.0103	36000	0.0315
11000	.0107	36500	0.0318
11500	.0109	37000	0.0321
12000	.0113	37500	0.0324
12500	.0117	38000	0.0328
13000	.0121	38500	0.0331
13500	.0125	39000	0.0335
14000	.0128	39500	0.0338
14500	.0132	40000	0.0340
15000	.0137	40500	0.0345
15500	.0141	41000	0.0348
16000	.0145	41300	0.0351
16500	.0150	41000	0.0358
17000	.0154	41500	0.0361
17500	.0158	42000	0.0364
18000	.0162	42500	0.0367
18500	.0167	43000	0.0369
19000	.0169	43500	0.0372
19500	.0175	44000	0.0376
20000	0.0179	44500	0.0379
20500	0.0183	45000	0.0381
21000	0.0187	45500	0.0391
21500	0.0191	46000	0.0395
22000	0.0195	46500	0.0399
22500	0.0199	45500	0.0404
23000	0.0204	45500	0.0416
23500	0.0208	44500	0.0422
24000	0.0212		
24500	0.0216		
25000	0.022		
25500	0.0225		
26000	.0229		
26500	.0234		

STRESS/STRAIN CURVE CST-7 (-157.5 to -158.0)



SPECIMEN DIMENSIONS:

Weight:	1.4365#
Height:	4.420"
Diameter:	2.215"
Surface Area:	3.853 Sq.In.
Comp. Strength:	12,069 psi
Unit Weight:	145.7 pcf
Modulus of Elasticity:	1.37E+06

Description of Break: As per ASTM C-39 Break was Columnar

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: 62 [ ] Prepaid [ ] Collect

ANALYSIS REQUIRED 10-24-94

D-9-94 SAMPLE				TYPE	ELEMENTS REQUIRED
0-5	66-69	133-137.5	201-205	CORE	2 AT FIRE ASSAY Au & Ag
5-10	69-75	137.5-143	205-210		W/ HECLA ROSEBUD
10-15	75-79.5	143-148	210-215		CUSTOM PREP
15-20	79.5-83	148-153	215-220		
20-23	83-86	153-157.5	220-225		
23-28	86-90	157.5-162	225-230		* GRAV. FINISH ON ALL
28-31	90-95	162-167	230-235		Au ≥ 0.05 opt
31-35	95-100	167-172	235-240		
35-39	100-105	172-177.5	240-245		
39-44	105-110	177.5-182	245-250		
44-49	110-115	182-187	250-255		
49-54	115-118.5	187-193	255-257		
54-58	118.5-123	193-196	257-262		
58-62	123-128	196-199	262-267		
62-66	128-133	199-201	267-272		

COARSE REJECTS (Normally Discarded)

272-277

277-279

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

PULPS (Normally Stored Free For One Month)

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

RESULTS AND INVOICES TO BE SENT TO:

Please mark invoice person and address [I]

(1) Charlie Muenhoff

(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-9-94
LABORATORY JOB No. : SP031520
SAMPLE TYPE :

RECEIVED : 7 NOV 1994
REPORTED : 14 NOV 1994
No. SAMPLES : 62

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

AMERICAN ASSAY LABORATORIES
ANALYSIS REPORT

American Assay Laboratories

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : D-9-94
JOB NUMBER : SP031520
REPORTED : 14 NOV 1994

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-9-94 00-05	0.004			0.03
D-9-94 05-10	0.008			0.02
D-9-94 10-15	0.047	0.046		0.44
D-9-94 15-20	0.017			0.30
D-9-94 20-23	0.016			0.16
D-9-94 23-28	0.237		0.270	13.04
D-9-94 28-31	0.395		0.350	18.56
D-9-94 31-35	0.103		0.109	1.26
D-9-94 35-39	0.047			0.20
D-9-94 39-44	0.028			0.10
D-9-94 44-49	0.026			0.10
D-9-94 49-54	0.011			0.23
D-9-94 54-58	0.004			0.06
D-9-94 58-62	0.005			0.06
D-9-94 62-66	0.009			0.07
D-9-94 66-69	0.010			0.05
D-9-94 69-75	0.016			0.11
D-9-94 75-79.5	<0.001			0.06
D-9-94 79.5-83	0.002			0.05
D-9-94 83-86	0.003			0.05
D-9-94 86-90	<0.001			0.03
D-9-94 90-95	0.001			0.03
D-9-94 95-100	0.004			0.05
D-9-94 100-105	0.012	0.011		0.14
D-9-94 105-110	0.001			<0.02

AMERICAN ASSAY LABORATORIES
ANALYSIS REPORT

American Assay Laboratories

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PROJECT : ROSEBUD
REFERENCE : D-9-94
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SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-9-94 110-115	0.005			0.03
D-9-94 115-118.5	0.014			0.12
D-9-94 118.5-123	0.005			0.03
D-9-94 123-128	0.001			0.03
D-9-94 128-133	0.001			0.03
D-9-94 133-137.5	<0.001			0.04
D-9-94 137.5-143	0.003			0.03
D-9-94 143-148	0.001			<0.02
D-9-94 148-153	0.002			0.04
D-9-94 153-157.5	0.003			0.07
D-9-94 157.5-162	<0.001			0.02
D-9-94 162-167	<0.001			<0.02
D-9-94 167-172	0.003			0.03
D-9-94 172-177.5	0.478		0.426	0.97
D-9-94 177.5-182	0.001			0.04
D-9-94 182-187	0.009			0.04
D-9-94 187-193	0.007			0.10
D-9-94 193-196	0.049	0.045		0.15
D-9-94 196-199	0.453		0.460	5.80
D-9-94 199-201	0.160		0.166	0.35
D-9-94 201-205	0.021			0.11
D-9-94 205-210	0.041			0.23
D-9-94 210-215	0.007			0.09
D-9-94 215-220	0.007			0.07
D-9-94 220-225	0.011			0.10

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SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-9-94 225-230	0.042			0.14
D-9-94 230-235	0.052		0.049	0.19
D-9-94 235-240	0.007			0.09
D-9-94 240-245	0.008	0.010		0.10
D-9-94 245-250	0.008			0.09
D-9-94 250-255	0.005			0.09
D-9-94 255-257	0.004			0.08
D-9-94 257-262	0.005			0.07
D-9-94 262-267	0.004			0.07
D-9-94 267-272	0.003			0.06
D-9-94 272-277	0.003			0.06
D-9-94 277-279	0.004			0.08