60001173

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-272-98
AUTHOR	S. King; K. Allen; A. Niles
DATE OF DOC(S)	1998
MULTI_DIST Y / (N?) Additional Dist_Nos:	
QUAD_NAME	Sulphur 7.5'
P_M_C_NAME (mine, claim & company names)	Rosebud Mine; Rosebud Project; Rosebud Mining Co. LLC Hecla Mining Co.
COMMODITY If not obvious	gold; silver
NOTES	Drill log; geology; assay; photographs; total depth 300' receipt; handwritten notes; downhole camera images 39p. 3 down hole camera images

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

Revised: 1/22/08

	Initials	Date
SS:	DP	5/14/08
DB:	mah	
SCANNED:	NB	

D-272-98

6000 1173 4010

60001173

Hecla MINING COMPANY

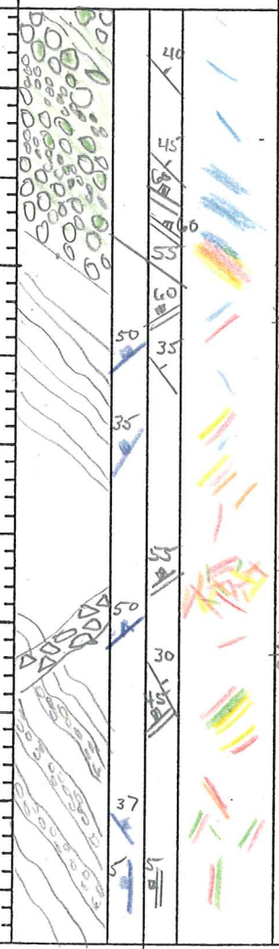
- quartz, chalcedony, silicification
- faults, fractures
- FeOx
- sulfide
- calcite, carbonate
- argillization, white clays
- propylitization
- potassic alteration
- chlorite, chloritic clays
- BARITE

ROSEBUD PROJECT
DIAMOND DRILL LOG

HOLE NUMBER	D-272-98	LOCATION	STOPE 50 NORTH SEC 1375
PAGE	1 OF 5	NORTHING	
DATE	8/24-26/98	EASTING	
LOGGED BY	ALLYN NILES	ELEVATION	
SCALE	1" = 10'	AZIMUTH	125
TOTAL DEPTH	300'	INCLINATION	41

REMARKS

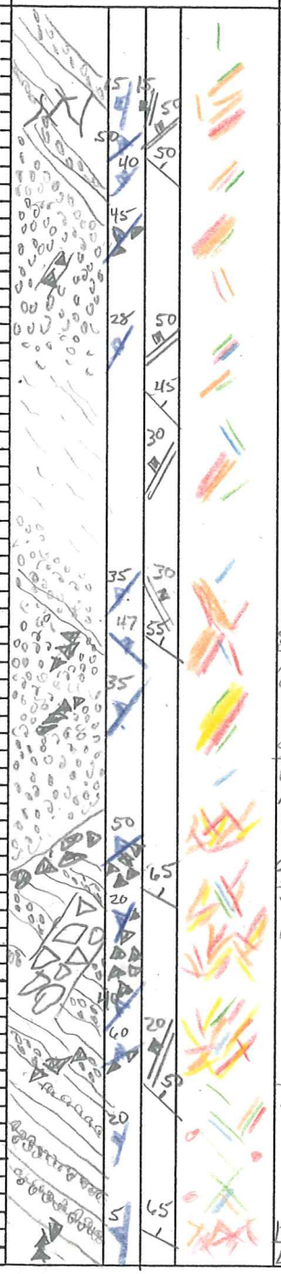
ITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
0.0 - 14.4 TOS		0.0 - 14.4 GREEN TO NEAR WHITE LAPILLIS, MOD. WELL SORTED W/ INDISTINCT BEDDING FEATURES. MATRIX IS GREEN APHANITIC VOLCANIC CLAY. COLOR CHANGE AT 13.0 TO PINK LAPILLIS IN PINK VOLCANIC CLAY	10			0.0 - 14.4 MOD. CALCITE VEINING TO 3" Ø. 10-20 SHORTENED SAMP. INT. DUE TO CONTACT
14.4 - 119.0 F6. MASSIVE?		14.4 - 119.0 LT. PINK TO LT. GREEN, APHANITIC TO FINE GRAIN, FLOW BANDED, INTERBEDDED W/ PINK, FINE GRAIN VESICULAR, TUFFY FLOWS. 14.4-33.0 MAYBE F6. MASSIVE	20		14.4 CONTACT SHARP, IRREGULAR SURFACE 14.4 - 119.0 MOST FRACTURES, BXA & VEINS @ OBLIQUE ∡'S TO BEDDING	13.8-14.0 QUARTZ/CALCITE/MARC. VEIN. 14.4-25.0 MINOR CALCITE VEINING. 14.4-55.0 FRACTURES FILLED W/ GREEN CLAY, MINOR MARC, MINOR WHITE CLAY/MARC. VEINS & FRACTURE FILLINGS
33.0 - 119 PLANAR LAMINAR			30		31.0-37.5 SMALL VUGS COMMON, HEALED BXA ZONES. 35.5-37.0 HEALED, CLAST SUPPORT BXA.	31.0-37.5 STRONG SILICA FLOODING, DRUZY QUARTZ, GREEN & WHITE CLAY, BLADED MARC, ALL MOD. 35.5
			40			
			50			



ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2	Ag
0.0	5.0					
5.0	10.0					
10.0	14.3					
14.3	17.4					
17.4	20.0					
20.0	25.0					
25.0	30.0					
30.0	35.0					
35.0	40.0					
40.0	45.0					
45.0	50.0					

HOLE NUMBER D-272-98 PAGE 2 OF 5

ITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2
14.4 - 119.0		14.4 - 119.0 SEE DESCRIPTION PAGE 1			55.0 - 66.0 SEVERAL THIN (TO 3" ø) HEALED BXA ZONES	55.0 - 66.0 CEMENTED W/ WHITE CLAY BLADED MARC DRUSY QUARTZ, POSSIBLE RARE FIBROUS SELENITE.	50.0	55.0				
PLANAR LAMINAR							55.0	57.0				
						61.0 - 99.0 DK. GRAY SULFIDE SEL/AGES; ROUND TO OVOID IN SHAPE, SOME DIRECTLY RELATED TO FRACTURES OTHERS DON'T HAVE ANY OBSERVED ASSOC.	57.0	60.0				
							60.0	64.4				
							64.4	66.0				
						69.0 - 122.0 SPORODIC CALCITE, ASSOC. W/ WHITE CLAY, BLADED MARC, ~75° CALCITE VEIN W/ PYRITE AFTER MARC, PEACOCK COLOR COATING ON PYRITE (CHALCOPYRITE?) NOTICED BY SAMPLER DAVID.	66.0	70.0				
							70.0	75.0				
							75.0	80.0				
							80.0	83.4				
					86.0 - 87.0 HEALED MOSAIC BXA, ANGULAR CLASTS, MATRIX SUPPORTED	86.0 - 87.0 MATRIX IS SOFT WHITE CLAY W/ STRONG BLADED MARC.	83.4	86.6				
							86.6	90.0				
					91.0 - 91.6 HEALED BRECCIA, ROUND FRAGS, MATRIX SUPPORT.	91.0 - 91.6 CLASTS SILICA REPLACED IN A GRAY SILICA MATRIX W/ STRONG MARC.	90.0	92.0				
							92.0	95.0				
							95.0	98.0				
PIMA →			100		98.0 - 107.0 VEINS & VUGS COMMON, ASSOC. W/ BRECCIAS, FAULT BXA 104.4 - 105.4	98.0 - 107.0 WHITE CLAY & MARC. VEINS TO 2" ø OR MORE, VUGS FORMED BY LEACHING OF CLAY, MINOR QUARTZ VEINING.	98.0	101.3				
PIMA →							101.3	105.0				
							105.0	107.6				
			110		110.0 - 110.7 HEALED MOSAIC, HETEROLITHIC BXA.	110.0 - 110.7 STRONG → COMPLETE SILICA REP. OF CLASTS IN A GREEN-GRAY SILICA MATRIX.	107.6	111.0				
							111.0	115.0				
					119.0 CONTACT IS 1" ø LOW ANGLE BXA	119.0 BXA CEMENTED W/ STRONG SULFIDES, MOD. WHITE CLAY, MINOR QUARTZ.	115.0	118.7				
			120				118.7	120.0				

HOLE NUMBER D-272-98 PAGE 3 OF 5

LITH.	OX/RED.	LITHOLOGY
119.0 - 132.5		119.0 - 132.5 LT. PINK TO LT GREEN, VERY FINE GRAIN, PLANAR FEATURES W/ SOME LAMINAR PARTINGS ALONG THEM. VESICLE TRAINS ALSO FOLLOW THE PLANAR FEATURES.
PLANAR FLOW		
132.5 - 154.0		132.5 - 154.0 LT. GREEN TO GRAY-GREEN TO GRAY, APHANITIC TO GLASSY TEXTURE, RARE VESICLES FILLED W/ GREEN CLAY / PYRITE.
FG. MASSIVE		
154.0 - 183.0		154.0 - 183.0 LT. GREEN, EXTREMELY FINE GRAIN / GLASSY. DEVITRIFIED W/ CRACKLED GLASS PATTERN
VITROPHYRE		
183.0 - 219.5		183.0 - 219.5 PINK & GREEN, GREEN AFTER 190', FINE GRAIN, DEVOID OF TEXTURE EXCEPT FOR WEAK MOTTLED TEXTURE WHICH SEEMS TO BE DUE TO COLOR VARIATIONS FROM
FG. MASSIVE		

FT

GRAPHIC LOG

STRUCTURE
119.0 - 132.5 MOST FRACTURES, BXA'S & VEINS ARE OBLIQUE TO FABRIC ALIGNMENT
124.5 - 127.0 MOD. VEINING
127.0 1" Ø HEALED BXA
132.5 CONTACT IS 1" Ø HEALED BXA.
154.0 CONTACT IS IRREGULAR W/ VERY SMALL FRAGS OF FG. UNIT ENCAPSULATED IN VITROPHYRE. CONTACT SEEMS TOO IRREGULAR TO BE EROSION SURFACE.
175.0 - 175.3 HEALED, VUGGY BXA.
172.5 - 177.0 INCREASED VEINING, VUGS,
180.0 - 183.0 BXA FORMED FROM ROUND VITROPHYRE FRAGS, CLAST SUPPORTED,
183.0 - 187.6 HETEROLITHIC BXA, POSSIBLE MUD BXA FLOW BASE. ROUND FRAGS OF VITRO & FG. MASSIVE IN A PINKISH VOLCANIC CLAY W/ FLOW FEATURES?

ALTERATION AND MINERALIZATION
117.0 - 149.0 IRREGULAR SHAPED TO OVAL SULFIDE RICH AND/OR DK. SILICA RICH SELVAGES ASSOC. W/ FRACTURES AND/OR FRACTURE PATTERNS.
124.5 - 127.0 VEINS ARE WHITE CLAY, MARC. & DRUZY QUARTZ
132.5 CEMENTED W/ QUARTZ, WHITE CLAY & MARC.
140.0 - 182.0 SCATTERED CALCITE VEINS, USUALLY ASSOC. W/ BXA OR FRACTURES W/ BLADED MARC & WHITE CLAY,
154.0 - 172.5 WEAK THIN SULFIDE VEINING, MOSTLY AT LOW ANGLE TO CORE.
175.0 - 175.3 CLASTS MOD. SILICA REP., VUGS LINED W/ QUARTZ, BARITE, MARC., PY.
172.5 - 177.0 VUGS & VEINS FILLED / LINED W/ DRUZY QUARTZ, BLADED MARC., BARITE, PYRITE ON MARC.
180.0 - 183.0 FRACTURED MARC. W/ MINOR WHITE CLAY.
184.0 - 196.2 STRONG VUG FORMATION, LINED W/ MARC. DRUZY QUARTZ, MINOR WHITE CLAY, PYRITE ON MARC.

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2
120.0	124.5				
124.5	127.5				
127.5	132.5				
132.5	136.0				
136.0	140.0				
140.0	145.0				
145.0	150.0				
150.0	154.0				
154.0	156.4				
156.4	160.0				
160.	165.0				
165.0	170.0				
170.0	172.5				
172.5	177.0				
177.0	180.0				
180.0	183.0				
183.0	187.3				
187.3	190.0				

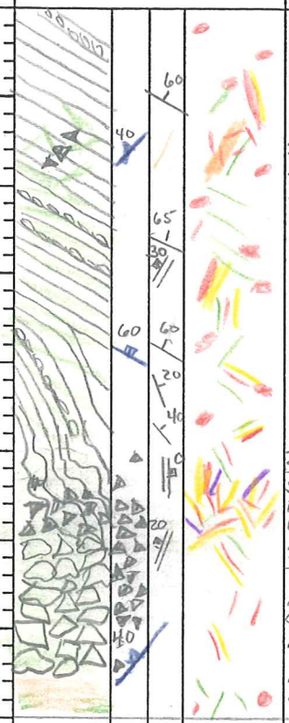
HOLE NUMBER D-272-98 PAGE 4 OF 5

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
183.0 - 219.5		183.0 - 219.5				
LBT F.G. MASSIVE		PROPYLITIC ALT. EVENT. 211.5 - 213.5 AUTO BXA GREEN VITROPHYRE-LIKE ROUND FRAGS. IN A F.G. PURPLE VOLCANIC CLAY. PROBABLY CHILLED TOP OF MASSIVE UNIT W/ THIN, CHILLED FLOW CAPPING THIS 213.5 - 219.5 213.5 - 219.5 VITROPHYRE-LIKE FLOW.	200 210 220 230 240 250 260		215.0 1" Ø FAULT W/ HARD, HEALED GOUGE. 219.5 FAULT CONTACT 219.5 - 221.0 HEALED, MOSAIC, CLAST SUPPORT BXA, HETEROLITHIC W/ CLASTS OF BOTH UNITS. 244.0 CONTACT GRADATIONAL OVER 1" OR SO. 251.0 CONTACT GRADATIONAL OVER 1" ± 253.3 - 255.3 OPEN FRACTURES AT LOW ∠ TO CORE AXIS.	198.0 - 199.0 CALCITE VEINS W/ BLADED MARC. 215.0 - 219.5 WEAK, INCREASING TO INTENSE ARGILLIC ALT. & ASSOC. BLEACHING. 219.5 - 221.0 CEMENTED W/ DRUZY QUARTZ, WHITE & LT. GREEN CLAY, MINOR MARC. 3" Ø CORE OF BXA HAS ALL CLASTS SILICIFIED. 221.5 - 233.2 OCCASIONAL VUGS & OPEN FRACTURES LINED W/ DRUZY QUARTZ 221.5 - 284.0 IRREGULAR SHAPED TO ROUNDED SULFIDIC SELVAGES; MANY DIRECTLY ASSOC. W/ FRACTURES/ THIN VEINS, OTHERS DON'T HAVE ANY OBSERVED STRUCTURAL ASSOC. 253.3 - 255.3 FRACTURES FILLED/LINED W/ GREEN CLAY, DRUZY QUARTZ, BLADED MARC.
219.5 - 244.0		219.5 - 244.0				
LBT PLANAR LAMINAR		SLIGHTLY PLANAR F.G. VESICULAR TUFFY FLOW(S). VERY SMALL ELONGATED VESICLES ARE ALIGNED IN THIN TRAINS IN A PLANAR FASHION. PROPYLITIC COLORATION IS IN VESICLES & ALONG PLANAR FRACTURES. ALSO IN LATER STAGE FRACTURES.				
244.0 - 251.0		244.0 - 251.0				
LBT SPOTTED TUFF		SMALL OVAL TO ROUND SPOTS FILLED W/ PURPLE TO GREEN TO WHITE CLAY AND/OR DRUZY QUARTZ, IN A LT. GREEN TO PINKISH TUFFY CLAY.				
251.0 - 284.0		251.0 - 284.0				
LBT PLANAR LAMINAR		YELLOW TO PINKISH TO GREEN, APHANITIC TO FINE GRAIN BANDED, VESICULAR FLOW(S), NO OBSERVED FLOW BOUNDRIES, CONTACT W/ TUFF IS SMOOTH TRANSITION.				

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2
190.0	193.2				
193.2	196.2				
196.2	200.0				
200.0	205.0				
205.0	210.0				
210.0	213.0				
213.0	217.2				
217.2	219.5				
219.5	221.5				
221.5	224.8				
224.8	228.5				
228.5	234.0				
234.0	239.0				
239.0	244.0				
244.0	248.0				
248.0	251.2				
251.2	253.3				
253.3	255.3				
255.3	260.0				

HOLE NUMBER D-272-98 PAGE 5 OF 5

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
251.0 - 284.0		251.0 - 284.0. SEE DESCRIPTION PAGE 4	270 / 280 / 290 / 300		268.4 - 269.0 BXA W/ SHARD-LIKE ANGULAR FRAGS IN CLAY MATRIX.	268.4 - 269.0 CLASTS HAVE MOD. → V. STRONG SILICA REPLACEMENT, MINOR BLADED MARC. IN HARD LT. YELLOW CLAY.
LBT PLANAR LAMINAR					284.0 - 290.0 SHEAR ZONE, CONTORTED FABRIC ALIGNMENT MIXED W/SOME BXA FRAGS.	284.0 - 290.0 MINOR MARC. BLADES TO 286. STRONG MARC. & QUARTZ FILLING OPEN FRACTS/VUGS, BARITE.
290.0 - 298.0 FAULT BRECCIA		290.0 - 298.0 HETEROLITHIC BRECCIA, ROUND CLASTS OF PLANAR & MASSIVE & SOME PINKISH, VESICULAR TOFFY FLOW.			290.0 - 298.0 HEALED BRECCIA ZONE, ROUND CLASTS IN A PINK → GREEN VOLCANIC CLAY MATRIX, SOME ANGULAR CLASTS, MAYBE AUTO-BXA, DOESN'T REALLY LOOK LIKE FAULT/TECTONIC BXA.	290.0 - 298.0 MOD. ARGILLIC ALT., MOD. FRAGMENTED? MARC. VEINS.
298.0 - 300.0 F.G. MASSIVE		298.0 - 300.0 VLT. GREEN → NEAR WHITE, FINE GRAIN MASSIVE FLOW.				298.0 - 300.0 STRONG ARG. ALT.
		T.D. 300'				

ANALYTICAL DATA						
FROM	TO	W	Au	Ag	Au2	
260.0	264.5					
264.5	267.0					
267.0	270.0					
270.0	272.0					
272.0	274.0					
274.0	278.5					
278.5	284.0					
284.0	286.0					
286.0	290.0					
290.0	292.5					
292.5	295.3					
295.3	298.0					
298.0	300.0					

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-272-98 DATE: 8/24/98 LOGGED BY: ALLYN DILES PAGE 1 OF 4

DRILL RUN		SOLID CORE RECOVERY (%)	TOTAL CORE RECOVERY (%)	RQD	ROCK STRENGTH		FRACTURE DATA				DENSITY DATA			
FROM	TO				DOWNHOLE DEPTH	POINT LOAD INDEX (psi)	FRACTURE DENSITY/FT.	AVG. ANGLE TO C.A.	ROUGHNESS	INFILL	DOWNHOLE DEPTH	SAMPLE WEIGHT (g)	DISPLACEMENT (cc)	DENSITY (g/cc)
0.0	5.0	100.0	100.0	60.0										
5.0	10.0	100.0	100.0	80.0										
10.0	15.0	102.0	102.0	92.0										
15.0	20.0	102.0	102.0	96.0										
20.0	25.0	100.0	100.0	82.0										
25.0	30.0	102.0	102.0	48.0										
30.0	35.0	102.0	102.0	68.0										
35.0	40.0	100.0	100.0	64.0										
40.0	45.0	88.0	88.0	38.0										
45.0	50.0	88.0	88.0	62.0										
50.0	55.0	98.0	98.0	46.0										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-272-98 DATE: 8/24/98 LOGGED BY: _____ PAGE 2 OF 4

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 C.A.	ROUGHNESS	INFILL	DOWNHOLE DEPTH	SAMPLE WEIGHT (g)	DISPLACEMENT (cc)	DENSITY (g/cc)
55.0	60.0	100.0	100.0	16.0										
60.0	65.0	100.0	100.0	60.0										
65.0	70.0	80.0	96.0	30.0										
70.0	75.0	100.0	100.0	90.0										
75.0	80.0	96.0	96.0	70.0										
80.0	85.0	82.0	90.0	40.0										
85.0	90.0	100.0	100.0	54.0										
90.0	95.0	96.0	96.0	84.0										
95.0	105.0	84.0	99.0	50.0										
105.0	115.0	100.0	100.0	68.0										
115.0	120.0	40.0	86.0	30.0										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-272-98 DATE: 8/25/98 LOGGED BY: _____ PAGE 3 OF 4

DRILL RUN FROM	DRILL RUN TO	SOLID CORE RECOVERY (%)	TOTAL CORE RECOVERY (%)	RQD	ROCK STRENGTH DOWNHOLE DEPTH	ROCK STRENGTH POINT LOAD INDEX (psi)	FRACTURE DATA FRACTURE DENSITY/FT.	FRACTURE DATA AVG. ANGLE TO C.A.	FRACTURE DATA ROUGHNESS	FRACTURE DATA INFILL	DENSITY DATA DOWNHOLE DEPTH	DENSITY DATA SAMPLE WEIGHT (g)	DENSITY DATA DISPLACEMENT (cc)	DENSITY DATA DENSITY (g/cc)
120.0	130.0	100.0	100.0	83.0										
130.0	140.0	96.0	98.0	57.0										
140.0	150.0	100.0	100.0	73.0										
150.0	160.0	100.0	100.0	86.0										
160.0	170.0	100.0	100.0	86.0										
170.0	180.0	101.0	101.0	91.0										
180.0	190.0	98.0	98.0	88.0										
190.0	200.0	96.0	96.0	77.0										
200.0	210.0	100.0	100.0	85.0										
210.0	220.0	94.0	100.0	55.0										
220.0	230.0	100.0	100.0	84.0										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-272-98 DATE: 8/26/98 LOGGED BY: ALLYN NILES PAGE 4 OF 4

DRILL RUN FROM	DRILL RUN TO	SOLID CORE RECOVERY (%)	TOTAL CORE RECOVERY (%)	RQD	ROCK STRENGTH DOWNHOLE DEPTH	ROCK STRENGTH POINT LOAD INDEX (psi)	FRACTURE DATA FRACTURE DENSITY/FT.	FRACTURE DATA AVG. ANGLE TO C.A.	FRACTURE DATA ROUGHNESS	FRACTURE DATA INFILL	DENSITY DATA DOWNHOLE DEPTH	DENSITY DATA SAMPLE WEIGHT (g)	DENSITY DATA DISPLACEMENT (cc)	DENSITY DATA DENSITY (g/cc)
230.0	239.0	71.1	88.9	50.0										
239.0	244.0	86.0	94.0	28.0										
244.0	250.0	101.0	101.6	73.3										
250.0	260.0	42.0	70.0	30.0										
260.0	264.5	93.0	95.5	65.0										
264.5	270.0	94.5	94.5	50.9										
270.0	280.0	93.0	100.0	79.0										
280.0	290.0	92.0	95.0	56.0										
290.0	300.0	73.0	96.0	60.0										

American Assay Laboratories

INVOICE

Remit To: P.O. Box11530
Reno, Nevada 89510
Phone NO.: 702-356-0606
Fax No.: 702-356-1413

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

(702) 356-0606

INVOICE NO: SP 0050524-IN
INVOICE DATE: 09/25/98

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

CUSTOMER P.O.	PROJECT	TERMS
D-272-98	DEVELOPMENT	NET 30 - DUE IN U.S. DOLLARS

QUANTITY	DESCRIPTION	PRICE	AMOUNT
83	SAMPLES RECEIVED	.00	.00
82	DRYING	1.00	82.00
82	JAW CRUSHING CHARGE	1.30	106.60
82	COARSE MILLING CHARGE	4.50	369.00
82	SPLITTING CHARGE	2.40	196.80
82	RING MILLING CHARGE	2.00	164.00
83	Au (1 A.T. FIRE ASSAY)	8.00	664.00
8	Au ANALYSES/GRAVIMETRIC	8.75	70.00
83	HYDROCHLORIC/NITRIC DIGESTION	2.00	166.00
83	Ag ANALYSES	1.00	83.00
1	Ag (ore grade) ANALYSES	5.00	5.00

86-5110-477
AA

NET INVOICE:	1,906.40
LESS DISCOUNT:	381.28
FREIGHT:	.00
INVOICE TOTAL:	1,525.12

xAMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP050524

American Assay Laboratories

PO BOX 11530
RENO NV,USA
Ph.(702) 356-0606, Fax.(702) 356-1413

HECLA MINING COMPANY

COPIES TO : KURT ALLEN

:

:

:

CLIENT REFERENCE No: D-272-98

No. SAMPLES : 83

MAIN SAMPLE TYPE : DRILL CORE

RECEIVED : 9 SEP 1998

REPORTED : 25 SEP 1998

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

SIGNATORY : Susan King M.S.

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP050524

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-272-98

REPORTED : 25 SEP 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-272-98 00-05	<0.001			<0.02
D-272-98 05-10	<0.001			<0.02
D-272-98 10.0-14.3	0.002			0.02
D-272-98 14.3-17.4	0.001			0.02
D-272-98 17.4-20.0	0.002			0.02
D-272-98 20-25	0.003			0.04
D-272-98 25-30	0.002			0.04
D-272-98 30-35	0.003			0.04
D-272-98 35-40	0.004			0.05
D-272-98 40-45	0.004			0.05
D-272-98 45-50	0.005			0.06
D-272-98 50-55	0.007			0.15
D-272-98 55-57	0.007			0.07
D-272-98 57-60	0.026			0.08
D-272-98 60.0-64.4	0.019			0.08
D-272-98 64.4-66.0	0.008			0.07
D-272-98 66-70	0.004			0.12
D-272-98 70-75	0.026			0.07
D-272-98 75-80	0.006			0.03
D-272-98 80.0-83.4	0.058			<0.02
D-272-98 83.4-86.6	0.020			0.13
D-272-98 86.6-90.0	0.026			0.08
D-272-98 90-92	0.007			0.14
D-272-98 92-95	<0.001			<0.02
D-272-98 95-98	0.051			0.07

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP050524

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-272-98

REPORTED : 25 SEP 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-272-98 98.0-101.3	<0.001			<0.02
D-272-98 101.3-105.0	0.013			0.13
D-272-98 105.0-107.6	0.008			0.07
D-272-98 107.6-111.0	0.030			0.05
D-272-98 111-115	0.011			0.07
D-272-98 115.0-118.7	0.013			0.08
D-272-98 118.7-120.0	0.125		0.133	0.11
D-272-98 120.0-124.5	0.029			0.09
D-272-98 124.5-127.5	1.676		1.606	1.14
D-272-98 127.5-132.5	0.153		0.107	0.11
D-272-98 132.5-136.0	0.009			0.04
D-272-98 136-140	0.019			0.22
D-272-98 140-145	0.156		0.135	1.80
D-272-98 145-150	0.066	0.042		0.08
D-272-98 150-154	0.015			0.09
D-272-98 154.0-156.4	0.011			0.05
D-272-98 156.4-160.0	0.005			0.12
D-272-98 160-165	0.006			0.13
D-272-98 165-170	<0.001			0.14
D-272-98 170.0-172.5	0.007			0.06
D-272-98 172.5-177.0	0.023			0.06
D-272-98 177-180	0.009			0.04
D-272-98 180-183	0.006			0.04
D-272-98 183.0-187.3	0.014			0.06
D-272-98 187.3-190.0	0.009			0.03

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP050524

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-272-98

REPORTED : 25 SEP 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-272-98 190.0-193.2	0.008	0.004		0.06
D-272-98 193.2-196.2	0.065		0.114	0.05
D-272-98 196.2-200.0	0.108		0.155	0.06
D-272-98 200-205	0.004			0.05
D-272-98 205-210	0.004			0.03
D-272-98 210-213	0.008			0.07
D-272-98 213.0-217.2	0.006			0.09
D-272-98 217.2-219.5	0.011			0.09
D-272-98 219.5-221.5	0.010			0.08
D-272-98 221.5-224.8	0.011			0.07
D-272-98 224.8-228.5	0.013			0.08
D-272-98 228.5-234.0	0.008			0.06
D-272-98 234-239	0.003			0.04
D-272-98 239-244	0.001			<0.02
D-272-98 244-248	0.004			0.06
D-272-98 248.0-251.2	0.005			0.06
D-272-98 251.2-253.3	0.004			0.06
D-272-98 253.3-255.3	0.019			0.13
D-272-98 255.3-260.0	0.017			0.14
D-272-98 260.0-264.5	0.011			0.09
D-272-98 264.5-267.0	0.010			0.08
D-272-98 267-270	0.010			0.06
D-272-98 270-272	0.027			0.11
D-272-98 272-274	0.081		0.065	0.13
D-272-98 274.0-278.5	0.004			0.06

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP050524

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-272-98

REPORTED : 25 SEP 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-272-98 278.5-284.0	0.020			0.10
D-272-98 284-286	0.024			0.09
D-272-98 286-290	0.051		0.058	0.10
D-272-98 290.0-292.5	0.002			0.04
D-272-98 292.5-295.3	0.003			0.06
D-272-98 295.3-298.0	0.014			0.10
D-272-98 298-300	0.004			0.03
40500	0.541			2.91

xAMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP050524

American Assay Laboratories

PO BOX 11530
RENO NV,USA
Ph.(702) 356-0606, Fax.(702) 356-1413

HECLA MINING COMPANY

COPIES TO : KURT ALLEN

:

:

:

CLIENT REFERENCE No: D-272-98 RECEIVED : 9 SEP 1998

No. SAMPLES : 83 REPORTED : 25 SEP 1998

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

SIGNATORY : Susan King M.S.

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP050524

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-272-98

REPORTED : 25 SEP 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-272-98 00-05	<0.001			<0.02
D-272-98 05-10	<0.001			<0.02
D-272-98 10.0-14.3	0.002			0.02
D-272-98 14.3-17.4	0.001			0.02
D-272-98 17.4-20.0	0.002			0.02
D-272-98 20-25	0.003			0.04
D-272-98 25-30	0.002			0.04
D-272-98 30-35	0.003			0.04
D-272-98 35-40	0.004			0.05
D-272-98 40-45	0.004			0.05
D-272-98 45-50	0.005			0.06
D-272-98 50-55	0.007			0.15
D-272-98 55-57	0.007			0.07
D-272-98 57-60	0.026			0.08
D-272-98 60.0-64.4	0.019			0.08
D-272-98 64.4-66.0	0.008			0.07
D-272-98 66-70	0.004			0.12
D-272-98 70-75	0.026			0.07
D-272-98 75-80	0.006			0.03
D-272-98 80.0-83.4	0.058			<0.02
D-272-98 83.4-86.6	0.020			0.13
D-272-98 86.6-90.0	0.026			0.08
D-272-98 90-92	0.007			0.14
D-272-98 92-95	<0.001			<0.02
D-272-98 95-98	0.051			0.07

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP050524

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-272-98

REPORTED : 25 SEP 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-272-98 98.0-101.3	<0.001			<0.02
D-272-98 101.3-105.0	0.013			0.13
D-272-98 105.0-107.6	0.008			0.07
D-272-98 107.6-111.0	0.030			0.05
D-272-98 111-115	0.011			0.07
D-272-98 115.0-118.7	0.013			0.08
D-272-98 118.7-120.0	0.125		0.133	0.11
D-272-98 120.0-124.5	0.029			0.09
D-272-98 124.5-127.5	1.676		1.606	1.14
D-272-98 127.5-132.5	0.153		0.107	0.11
D-272-98 132.5-136.0	0.009			0.04
D-272-98 136-140	0.019			0.22
D-272-98 140-145	0.156		0.135	1.80
D-272-98 145-150	0.066	0.042		0.08
D-272-98 150-154	0.015			0.09
D-272-98 154.0-156.4	0.011			0.05
D-272-98 156.4-160.0	0.005			0.12
D-272-98 160-165	0.006			0.13
D-272-98 165-170	<0.001			0.14
D-272-98 170.0-172.5	0.007			0.06
D-272-98 172.5-177.0	0.023			0.06
D-272-98 177-180	0.009			0.04
D-272-98 180-183	0.006			0.04
D-272-98 183.0-187.3	0.014			0.06
D-272-98 187.3-190.0	0.009			0.03

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP050524

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-272-98

REPORTED : 25 SEP 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-272-98 190.0-193.2	0.008	0.004		0.06
D-272-98 193.2-196.2	0.065		0.114	0.05
D-272-98 196.2-200.0	0.108		0.155	0.06
D-272-98 200-205	0.004			0.05
D-272-98 205-210	0.004			0.03
D-272-98 210-213	0.008			0.07
D-272-98 213.0-217.2	0.006			0.09
D-272-98 217.2-219.5	0.011			0.09
D-272-98 219.5-221.5	0.010			0.08
D-272-98 221.5-224.8	0.011			0.07
D-272-98 224.8-228.5	0.013			0.08
D-272-98 228.5-234.0	0.008			0.06
D-272-98 234-239	0.003			0.04
D-272-98 239-244	0.001			<0.02
D-272-98 244-248	0.004			0.06
D-272-98 248.0-251.2	0.005			0.06
D-272-98 251.2-253.3	0.004			0.06
D-272-98 253.3-255.3	0.019			0.13
D-272-98 255.3-260.0	0.017			0.14
D-272-98 260.0-264.5	0.011			0.09
D-272-98 264.5-267.0	0.010			0.08
D-272-98 267-270	0.010			0.06
D-272-98 270-272	0.027			0.11
D-272-98 272-274	0.081		0.065	0.13
D-272-98 274.0-278.5	0.004			0.06

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP050524

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-272-98

REPORTED : 25 SEP 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-272-98 278.5-284.0	0.020			0.10
D-272-98 284-286	0.024			0.09
D-272-98 286-290	0.051		0.058	0.10
D-272-98 290.0-292.5	0.002			0.04
D-272-98 292.5-295.3	0.003			0.06
D-272-98 295.3-298.0	0.014			0.10
D-272-98 298-300	0.004			0.03
40500	0.541			2.91

SP

SUBMITTAL FORM

American Assay Laboratories

Geochemical • Environmental • Metallurgical

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

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

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

Mazatlan Office
Telephone/Fax
011-52-69-170035

Other Offices
Lima, Peru
Santiago, Chile
Mendoza, Argentina

Company: ROSEBUD LLC

Address: P.O. BOX 2610

City WINNEMUCCH State NV Zip 89445

Telephone Number: (702) 623-6912 Fax Number: (702) 623-6967

Project Name: DEVELOPMENT Purchase Order Number:

Date Submitted: 9/3/98 Number of Samples: 82

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

D-272-98 SAMPLE IDENTIFICATION			TYPE	ELEMENTS REQUIRED		
				Au-Ag ACCORDING TO ROSEBUD		
				MINE PROTOCOL		
0-5	64.4-66	111-115		165-170	217.2-219.5	267-270
5-10	66-70	115-118.7		170-172.5	219.5-221.5	270-272
10-14.3	70-75	118.7-120		172.5-177	221.5-224.8	272-274
14.3-17.4	75-80	120-124.5		177-180	224.8-228.5	274-278.5
17.4-20	80-83.4	124.5-127.5		180-183	228.5-234	278.5-284
20-25	83.4-86.6	127.5-132.5		183-187.3	234-239	284-286
25-30	86.6-90	132.5-136		187.3-190	239-244	286-290
30-35	90-92	136-140		190-193.2	244-248	290-292.5
35-40	92-95	140-145		193.2-196.2	248-251.2	292.5-295.3
40-45	95-98	145-150		196.2-200	251.2-253.3	295.3-298
45-50	98-101.3	150-154		200-205	253.3-255.3	298-300
50-55	101.3-105	154-156.4		205-210	255.3-260	55-57
~~55-60~~	105-107.6	156.4-160		210-213	260-264.5	57-60
60-64.4	107.6-111	160-165		213-217.2	264.5-267	

COARSE REJECTS (Normally Discarded After 60 Days)

[ ] Return COD after analysis complete

PULPS (Normally Stored Free For One Month)

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

RESULTS AND INVOICES TO BE SENT TO:

Invoice to:

KURT ALLEN

Results to:

KURT ALLEN

Comments:

CLIENT FILE COPY

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP050524

PO BOX 11530
RENO NV,USA
Ph.(702) 356-0606, Fax.(702) 356-1413

HECLA MINING COMPANY

COPIES TO : KURT ALLEN

:

:

:

CLIENT REFERENCE No: D-272-98 RECEIVED : 9 SEP 1998

No. SAMPLES : 83 REPORTED : 25 SEP 1998

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

SIGNATORY : Susan King M.S.

09/25/1998 12:04 7023561413 AMERICAN ASSAY LABS PAGE 01
7023561413

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP050524

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-272-98

REPORTED : 25 SEP 1998

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
D-272-98 00-05	<0.001			<0.02
D-272-98 05-10	<0.001			<0.02
D-272-98 10.0-14.3	0.002			0.02
D-272-98 14.3-17.4	0.001			0.02
D-272-98 17.4-20.0	0.002			0.02
D-272-98 20-25	0.003			0.04
D-272-98 25-30	0.002			0.04
D-272-98 30-35	0.003			0.04
D-272-98 35-40	0.004			0.05
D-272-98 40-45	0.004			0.05
D-272-98 45-50	0.005			0.06
D-272-98 50-55	0.007			0.15
D-272-98 55-57	0.007			0.07
D-272-98 57-60	0.026			0.08
D-272-98 60.0-64.4	0.019			0.08
D-272-98 64.4-66.0	0.008			0.07
D-272-98 66-70	0.004			0.12
D-272-98 70-75	0.026			0.07
D-272-98 75-80	0.006			0.03
D-272-98 80.0-83.4	0.058			<0.02
D-272-98 83.4-86.6	0.020			0.13
D-272-98 86.6-90.0	0.026			0.08
D-272-98 90-92	0.007			0.14
D-272-98 92-95	<0.001			<0.02
D-272-98 95-98	0.051			0.07

AMERICAN ASSAY LABORATORIES

PROVISTONAL REPORT SP0505Z4

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-272-98

REPORTED : 25 SEP 1998

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)	
D-272-98 98.0-101.3	<0.001			<0.02	
D-272-98 101.3-105.0	0.013			0.13	
D-272-98 105.0-107.6	0.008			0.07	
D-272-98 107.6-111.0	0.030			0.05	
D-272-98 111-115	0.011			0.07	
D-272-98 115.0-118.7	0.013			0.08	
D-272-98 118.7-120.0	0.125		0.133	0.11	124.5-132.8
D-272-98 120.0-124.5	0.029			0.09	8' @
D-272-98 124.5-127.5 3	1.676		1.606	1.14	0.724 Au
D-272-98 127.5-132.5 5	0.153		0.107	0.11	0.50 Ag
D-272-98 132.5-136.0	0.009			0.04	
D-272-98 136-140	0.019			0.22	
D-272-98 140-145	0.156		0.135	1.80	
D-272-98 145-150	0.066	0.042		0.08	
D-272-98 150-154	0.015			0.09	
D-272-98 154.0-156.4	0.011			0.05	
D-272-98 156.4-160.0	0.005			0.12	
D-272-98 160-165	0.006			0.13	
D-272-98 165-170	<0.001			0.14	
D-272-98 170.0-172.5	0.007			0.06	
D-272-98 172.5-177.0	0.023			0.06	
D-272-98 177-180	0.009			0.04	
D-272-98 180-183	0.006			0.04	
D-272-98 183.0-187.3	0.014			0.06	
D-272-98 187.3-190.0	0.009			0.03	

09/25/1998 12:04 7023561413 AMERICAN ASSAY LABS PAGE 03

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP050524

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-272-98

REPORTED : 25 SEP 1998

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
D-272-98 190.0-193.2	0.008	0.004		0.06
D-272-98 193.2-196.2	0.065		0.114	0.05
D-272-98 196.2-200.0	0.108		0.155	0.06
D-272-98 200-205	0.004			0.05
D-272-98 205-210	0.004			0.03
D-272-98 210-213	0.008			0.07
D-272-98 213.0-217.2	0.006			0.09
D-272-98 217.2-219.5	0.011			0.09
D-272-98 219.5-221.5	0.010			0.08
D-272-98 221.5-224.8	0.011			0.07
D-272-98 224.8-228.5	0.013			0.08
D-272-98 228.5-234.0	0.008			0.06
D-272-98 234-239	0.003			0.04
D-272-98 239-244	0.001			<0.02
D-272-98 244-248	0.004			0.06
D-272-98 248.0-251.2	0.005			0.06
D-272-98 251.2-253.3	0.004			0.06
D-272-98 253.3-255.3	0.019			0.13
D-272-98 255.3-260.0	0.017			0.14
D-272-98 260.0-264.5	0.011			0.09
D-272-98 264.5-267.0	0.010			0.08
D-272-98 267-270	0.010			0.06
D-272-98 270-272	0.027			0.11
D-272-98 272-274	0.081		0.065	0.13
D-272-98 274.0-278.5	0.004			0.06

09/25/1998 12:04 7023561413 AMERICAN ASSAY LABS PAGE 04

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP050524

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-272-98

REPORTED : 25 SEP 1998

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
D-272-98 278.5-284.0	0.020			0.10
D-272-98 284-286	0.024			0.09
D-272-98 286-290	0.051		0.058	0.10
D-272-98 290.0-292.5	0.002			0.04
D-272-98 292.5-295.3	0.003			0.06
D-272-98 295.3-298.0	0.014			0.10
D-272-98 298-300	0.004			0.03
40500	0.541			2.91

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D-272-98	0	37	126.2
	150	36.5	125.2
	300	37	125.7

D-272-98 BOX 2
DEPTH 9_5 - 18_5

D-272-98 BOX 1
DEPTH 0 - 9_5

D-272-98 BOX 3
DEPTH 18_5 - 28

D-272-98 BOX 5
DEPTH 36_5 - 45_5

D-272-98 BOX 4
DEPTH 28 - 36_5

D-272-98 BOX 6
DEPTH 45_5 - 55

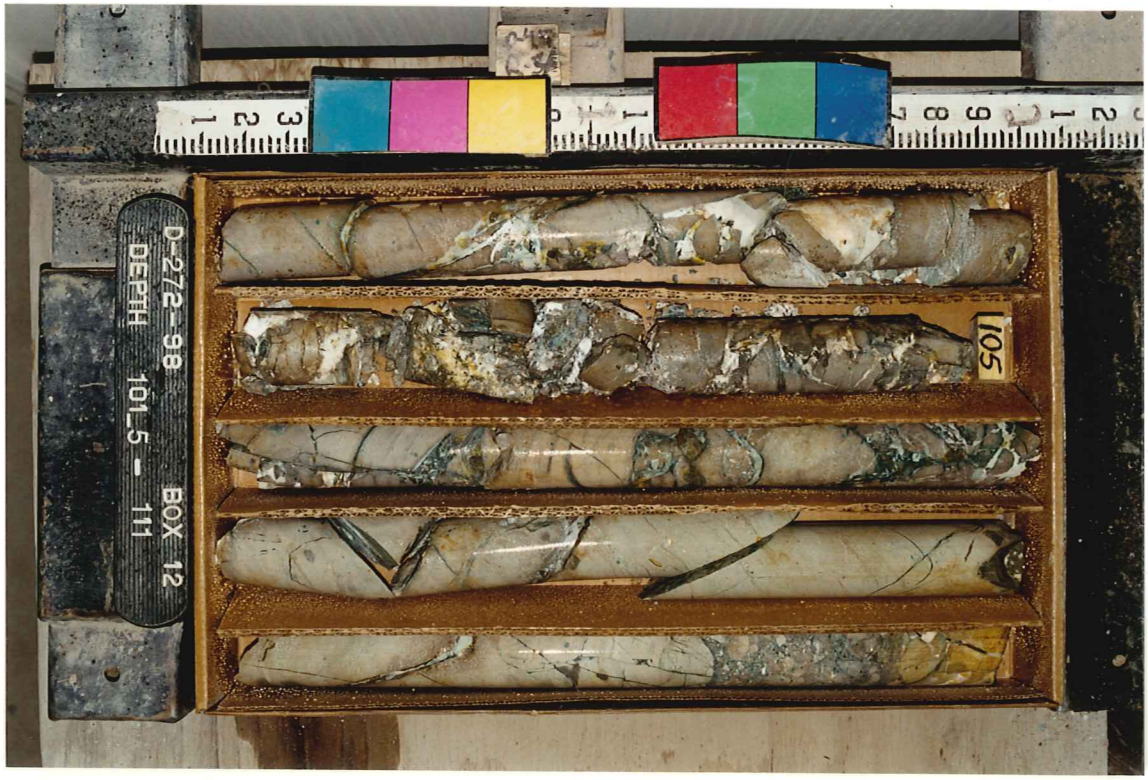
D-272-98 BOX 8
DEPTH 69_5 - 74
70

D-272-98 BOX 7
DEPTH 55 - 69_5
60

D-272-98 BOX 9
DEPTH 74 - 83
75
80

95'
D-272-98 BOX 11
DEPTH 92 - 101_5

90' FT
85'
D-272-98 BOX 10
DEPTH 83 - 92


105
D-272-98 BOX 12
DEPTH 101_5 - 111

D-272-98 BOX 14
DEPTH 120_5 - 130

120
115
D-272-98 BOX 13
DEPTH 111 - 120_5

130
D-272-98 BOX 15
DEPTH 130 - 139_5

150
D-272-98 BOX 17
DEPTH 149 - 158_5

140
D-272-98 BOX 16
DEPTH 139_5 - 149

160
D-272-98 BOX 18
DEPTH 158_5 - 168

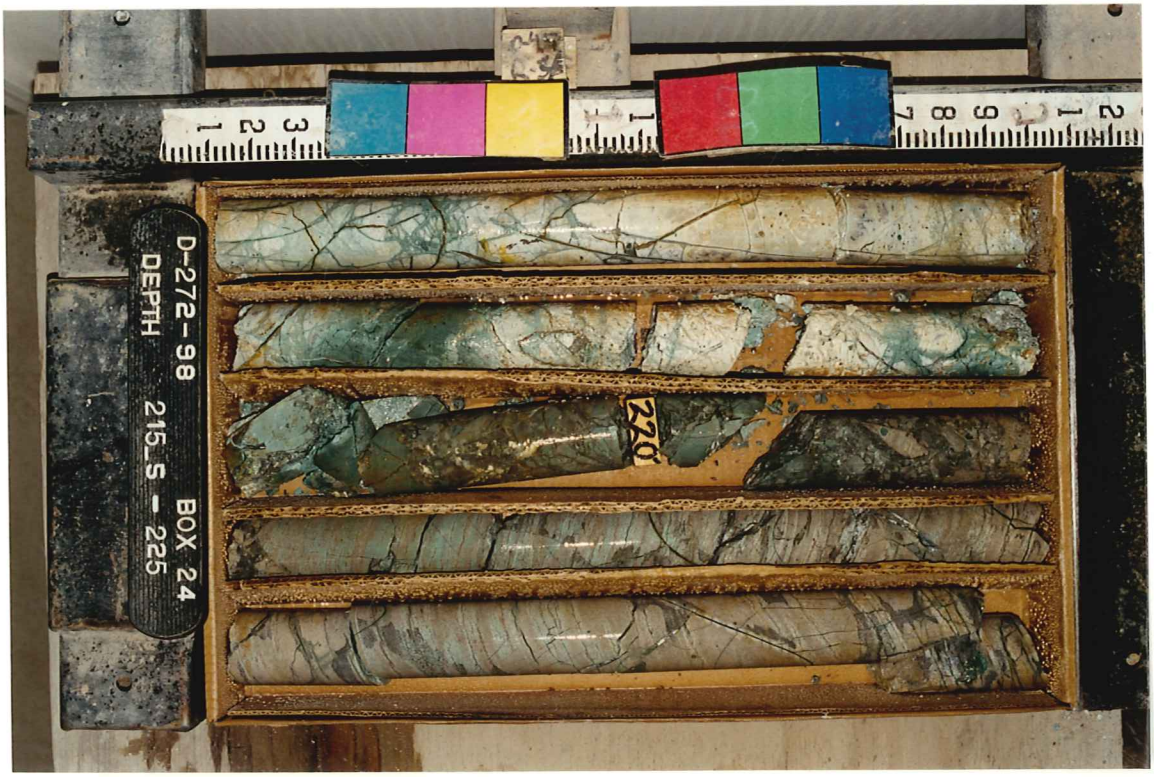
180
D-272-98 BOX 20
DEPTH 177_5 - 187

170
D-272-98 BOX 19
DEPTH 168 - 177_5

190
D-272-98 BOX 21
DEPTH 187 - 196_5

D-272-98 BOX 23
DEPTH 206 - 215_5

200
D-272-98 BOX 22
DEPTH 196_5 - 206


220
D-272-98 BOX 24
DEPTH 215_5 - 225

244
239
D-272-98 BOX 26
DEPTH 234_5 - 244

230
D-272-98 BOX 25
DEPTH 225 - 234_5

D-272-98 BOX 26
DEPTH 244 - 253_5
250

D-272-98 BOX 29
DEPTH 265 - 275

D-272-98 BOX 28
DEPTH 253_5 - 265

D-272-98 BOX 30
DEPTH 275 - 284_5

300
D-272-98 BOX 32
DEPTH 294 - 300

290
D-272-98 BOX 31
DEPTH 284.5 - 294

SINGLE SHOT
PHOTO DISC RECORD

COMPANY HECLA
WELL NAME D272-98
LEASE
TAKEN BY P RAMFORD
DEPTH COLLAR
DATE 6-20-98
DRIFT ANGLE
DIRECTION
TYPE
JOB NO.
HI-1408

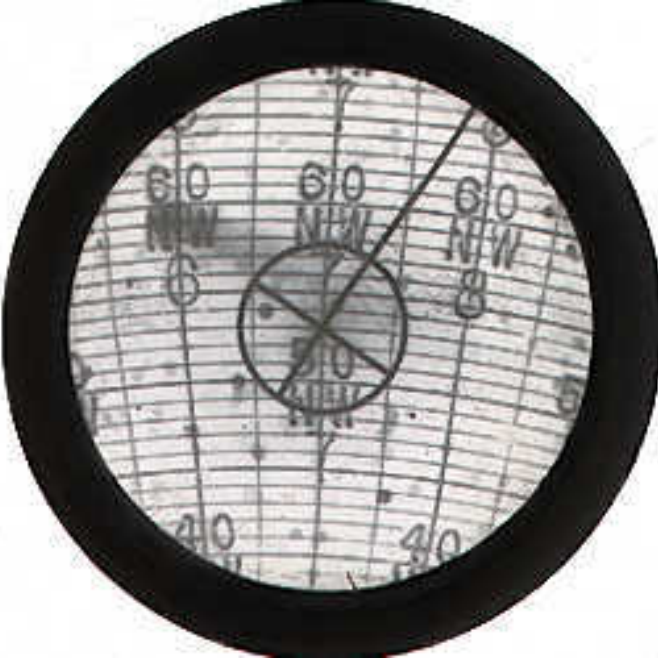
60
NW
60
NW
60
NW
6
8
50
40

SINGLE SHOT
PHOTO DISC RECORD

COMPANY HECLA
WELL NAME D272-98
LEASE
TAKEN BY P BAMFORD
DEPTH 150'
DATE 6-20-98
DRIFT ANGLE
DIRECTION
TYPE
JOB NO.
HI-1408

SINGLE SHOT
PHOTO DISC RECORD

COMPANY HecLA
WELL NAME D272-98
LEASE
TAKEN BY P BAMFORD
DEPTH 300'
DATE 6-20 98
DRIFT ANGLE
DIRECTION
TYPE
JOB NO.
HI-1408


60
NW
60
NW
60
NW
40
40