60001183

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-282-98
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 37 p. 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)

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

Revised: 1/22/08

D-282-98

60001183 4010

60001183

Hecla MINING COMPANY

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

ROSEBUD PROJECT
DIAMOND DRILL LOG

HOLE NUMBER	D-282-98	LOCATION	STOPE 50 SEC
PAGE 1 OF 5		NORTHING	
DATE	9/11-13/98	EASTING	
LOGGED BY	ALLYN NILES	ELEVATION	
SCALE	1" = 10'	AZIMUTH	125
TOTAL DEPTH	300'	INCLINATION	48°

REMARKS

REC	RQD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
0.0 - 3.0 TOS		0 - 3.0 GREEN LAPILLI TUFF				
3.0 - 29.0		3.0 - 29.0 LT. GREEN GRAY, VERY FINE GRAIN W/ OCCASIONAL PLANAR FEATURES.			3.0 - 3.8 AUTO BRECCIA FLOW BASE, ANGULAR FRAGS. 3.0 - 112 FRACTURES COMMONLY AT OBLIQUE ∠'S TO BEDDING.	3.0 - 29.0 FRACTURES FILLED W/ PROPYLITIC CLAY, CALCITE, SULFIDES. 8.0 - 53.0 ROUND TO IRREGULAR SULFIDIC SELVAGES OFTEN ASSOC. W/ SULFIDE VEINLETS/ FRACTURES.
F.G. MASSIVE OR PLANAR LAMINAR			10	65, 50, 40, 33, 50		
			20	40, 60, 65, 55		
29.0 - 137.0		29.0 - 137.0 PINK W/ GREEN LAYERS, VESICULAR MASSIVE FLOWS W/ FAINT PLANAR FEATURES AND RARE VESICLE TRAINS.	30	60, 45, 45, 20, 50, 50, 50, 50, 55	29.0 GRADATIONAL CONTACT 30.0 - 32.0 BXA'S TO 2" ø.	30.0 - 32.0 BRECCIAS ARE FILLED/LINED W/ DRUZY QUARTZ, CALCITE, BLADED MARC.
PLANAR LAMINAR			40			
			50		45.5 - 46.5 AUTO BXA 48.2 - 52.0 WEAK VEINING & OPENSPACE FILLING. 47.3 FAULT BXA, HEALED 2" ø	48.2 - 52.0 VEINS ARE HARD WHITISH CLAY W/ MARC. FRACTS., LINED W/ DRUZY QUARTZ & MARC.

FROM	TO	W	Au	Ag	Au2	Ag
0.0	6.0					
6.0	12.0					
12.0	17.0					
17.0	22.0					
22.0	27.0					
27.0	29.0					
29.0	32.0					
32.0	37.0					
37.0	42.0					
42.0	47.0					

HOLE NUMBER D-282-98 PAGE 2 OF 5

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2
29.0 – 137.0		29.0 – 137.0 SEE DESCRIPTION PAGE 1	60 70 80 PIMA → 90 100 110 120	50 35 40 45 40 25 20 40 25 50 55 30 35 55 50 55 45 25 40 55 70 65 29 65 30	52.0 – 61.0 MOD. → STRONG OPEN FRACTURES & VEINING 58.8 – 59.4 HEALED, MOSAIC BXA 60.0 3"Ø HEALED VUGGY BXA. 74.0 – 82.0 STRONG VEINING AT LOW ∠ TO CORE. 85.0 4" WEAKLY HEALED MOSAIC BXA 115.0 – 120.0 WEAK → MOD. VEINING	52.0 – 61.0 OPEN FRACTURES LINED W/ DRUZY QUARTZ, BLADED MARC., SOME WHITE CLAY, 58.8 – 59.4 CEMENTED W/ QUARTZ MINOR MARC, ALL CLASTS SILICIFIED 60.0 BXA CEMENTED W/ DRUZY QUARTZ, WHITE & GREEN CLAY, MINOR MARC 71.0 – 84.0 MOD. → STRONG CALCITE VEINING W/ BLADED MARC., WHITE CLAY, PROPYLITIC CLAY, MINOR QUARTZ, 74.0 – 82.0 VEINS FILLED W/ MARC., BLADED MARC, CALCITE WHITE CLAY, PROPYLITIC CLAY 82.0 – 132.5 ROUND TO IRREGULAR SULFIDE SELVAGES ASSOC. W/ VEINLETS & SULFIDE FRACT. FILLINGS, 85.0 BXA CEMENTED W/ SOFT WHITE CLAY, SOME QUARTZ, MINOR SULFIDES 97.2 2"Ø WHITE CLAY VEIN W/ MINOR SULFIDES 115.0 – 120.0 VEINS FILLED W/ PYRITE, MARC., PROP. CLAY & QUARTZ	47.0 52.0 54.8 57.0 59.5 62.0 67.0 72.0 75.0 77.0 80.0 82.0 87.0 89.0 92.0 97.0 102.0 107.0 112.0 117.0	52.0 54.8 57.0 59.5 62.0 67.0 72.0 75.0 77.0 80.0 82.0 87.0 89.0 92.0 97.0 102.0 107.0 112.0 117.0				
		89.0 – 92.0 NO RECOVERY MISLATCH.		NO RECOVERY					NO SAMPLE			

HOLE NUMBER D-282-98 PAGE 3 OF 5

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
29.0	137.0	29.0 – 137.0				
PLANAR LAMINAR		PINK → GREENISH FINE → VERY FINE GRAIN VESICULAR; PLANAR FLOWS w/ NO OBSERVED FLOW BOUNDRIES				
			130		131.5 – 134.0 MOD → STRONG VEINING & FRACTURING ASSOC. w/ FAULT BXA.	131.5 – 134.0 FRACTURES/VEINS LINED/FILLED w/ DRUZY QUARTZ, MARC., WHITE CLAY, PYRITE, VERY RARE SOFT BLACK CLAY
				AMA →	134.0 – 137.0 HOMOLITHIC MOSAIC, CLAST & MATRIX SUPPORT BXA	134.0 – 137.0 CEMENT IS MOSTLY WHITE HARD CLAY, SULFIDES, QUARTZ
137.0 – 172.5		137.0 – 172.5				
VITROPHYRE		GREEN, EXTREEMLY FINE GRAIN SHARD-LIKE FRAGS RESEMBLING BROKEN GLASS PIECES, FRACTURE PATTERN LOOKS LIKE CRACKED GLASS w/ DK. GREEN EXTREEMLY FINE GRAIN CLAY FILLING INTERSTICIES			137.0 – 138.8 HEALED, HETEROLITHIC, MOSAIC FAULT BXA, MOSTLY ANGULAR FRAGS., MATRIX SUPPORT	137.0 – 138.8 CEMENTED w/ PROPYLITIC CLAY, QUARTZ w/ MARC. & PYRITE, STRONG SILICA FLOODING w/ MOST CLASTS ALSO SILICIFIED. BARITE AS LATE STAGE X-TALS.
			140		138.8 – 157.5 MOD. VEINING w/ THIN DISCONT-INUOUS VEINLETS	138.8 – 157.5 VEINLETS ARE MARC./PYRITE & CALCITE/QUARTZ
			150		138.8 – 203.7 NATURAL. FRACTURES EXTREEMALY RARE. RQD NEAR OR AT LENGTH RECOVERED. VEINS ARE THIN & LOW ANGLE TO CORE	149.0 – 164.0 WEAK CALCITE VEINING
						138.8 – 203.7 VEINS ARE MARC., ± PYRITE QUARTZ & WHITE CLAY. VEINING IN MINOR.
			160			
			170		172.5 GRADATIONAL CONTACT	
172.5 – 203.7		172.5 – 200.7				
F.G. MASSIVE			180			
			190			

ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2
117.0	122.0				
122.0	126.5				
126.5	131.5				
131.5	134.0				
134.0	137.0				
137.0	138.8				
138.8	141.5				
141.5	146.0				
146.0	151.0				
151.0	156.0				
156.0	161.0				
161.0	166.0				
166.0	171.0				
171.0	172.5				
172.5	176.0				
176.0	180.0				
180.0	185.0				
185.0	190.0				

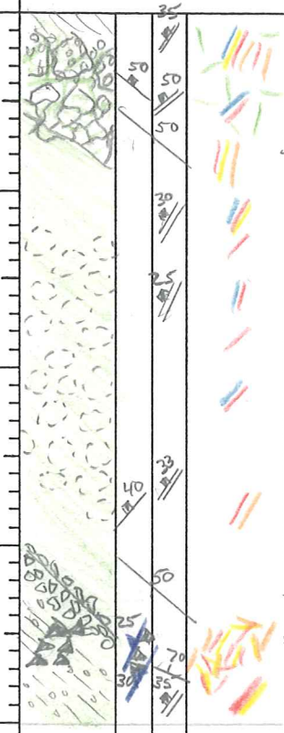
HOLE NUMBER D-282-98 PAGE 4 OF 5

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
172.5 - 203.7 F6. MASSIVE		172.5 - 200.7 SEE DESCRIPTION PAGE 3 200.7 - 203.7 GREEN, EXTREMELY FINE GRAIN. VITROPHYRE. PROBABLE CHILLED CONTACT.	200			191.5-193.3 LONG FRACTURE/VEIN AT LOW ∡ TO CORE, FILLED W/ DRUZY QUARTZ, MARC., PY., LT. GRN CLAY.
203.7 - 229.7 PLANAR LAMINAR		203.7 - 229.7 PINK W/ GREEN LAMINAE, FINE GRAIN, FLOW BANDED W/ WELL DEVELOPED PLANAR FEATURES & SOME LAMINAR PARTINGS.	210 220		203.5-203.7 BXA CONTACT, HETEROLITHIC 203.5-207.0 LOW ∡, 1" ø VEIN 207.— MOST VEINS & FRAGS @ OBLIQUE ∡ TO BEDDING 214.0-215.0 1' ø HEALED MATRIX SUPPORTED BXA W/ ANGULAR → SUBROUND FRAGS 222.0 2" ø HEALED BXA, ANGULAR FRAGS, MATRIX SUPPORTED.	202.0-203.5 INCREASING ARGILLIC ALT. OF SHARDS TOWARD CONTACT 203.5-203.7 CONTACT IS 2" ø BXA W/ SUBROUND CLASTS IN V. LT. GRN. HARD CLAY & BLADED MARC., QUARTZ/SILICA. 203.5 - 207.0 FILLED W/ QUARTZ, BLADED MARC., WHITE & LT. GRN. CLAY. 214.0-215.0 CEMENTED W/ PINK VOLCANIC CLAY. SOME LATER STAGE MARC. VEINS 222.0 CEMENTED W/ PINK VOLCANIC CLAY, SOME LATER STAGE MARC. AS VEINS.
229.7 - 238.0 SPOTTED TUFF		229.7 - 238.0 LT. GREEN W/ PINK OVAL → IRREGULAR VESICLES OFTEN FILLED QUARTZ, SMALL MARC. BLADES, CALCITE, GREEN CLAY	230		229.7 GRADATIONAL CONTACT 229.7 - 291.0 NATURAL FRACTURES VERY RARE	207.0 - 254.8 ROUND → IRREGULAR SHARD SULFIDIC SELVAGES ASSOC. W/ THIN SULFIDE VEINLETS & FRACTURE FILLINGS. 227.0 - 234.5 MINOR → MOD CALCITE VEINING W/ BLADED MARC., SOME VESICLE FILLING.
238.0 - 255.3 PLANAR LAMINAR		238.0 - 255.3 PINK W/ GREEN BANDING, FINE GRAIN, FLOW BANDED W/ PLANAR FEATURES & MINOR LAMINAR PARTINGS.	240 250		238.0 GRADATIONAL CONTACT 250.5 - 255.3 STRONG VEINING & OPEN SPACE FILLING 254.0-255.3 BXA W/ DRUZY QUARTZ & BLADED MARC. 255.3 CONTACT SHARP	250.5 - 255.3 VEINS & OPEN SPACES LINED / FILLED W/ DRUZY QUARTZ, PY. REPLACED MARC., BARITE, BLADED MARC.
255.3 - 292.2 F6. MASSIVE		255.3 - 267.2 NEAR WHITE → GREEN → DK. GREEN CHAOTIC MESS OF VITROPHYRE, PLANAR FEATURES &	260		255.3 - 267.3 MOD. VEINING & OPEN SPACE FILLING	255.3 - 267.3 VEINS & OPEN SPACES FILLED/LINED W/ DRUZY QUARTZ, QUARTZ, MARC., PY., MINOR WHITE CLAY

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2
190.0	193.3				
193.3	197.0				
197.0	200.3				
200.3	203.7				
203.7	207.0				
207.0	212.0				
212.0	217.0				
217.0	222.0				
222.0	227.0				
227.0	229.2				
229.2	233.5				
233.5	235.8				
235.8	238.0				
238.0	242.0				
242.0	246.0				
246.0	251.0				
251.0	255.3				
255.3	257.0				
257.0	258.7				

HOLE NUMBER D-282-98 PAGE 5 OF 5

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
255.3-292.0 F.G. MASSIVE?		255.3 - 267.2 BLOCKS OF VESICULAR LAVA, SOME BXA FRAGS IN DK-GREEN PROPYLITIC CLAY. FLOW BASE OF F.G. MASSIVE, OR 267.2 - 292.0 GREEN, FINE GRAIN MASSIVE? FLOW W/ FAINT AUTO BRECCIA CLAST OUTLINES.	270 280 290 300		267.2 SHARP CONTACT 267.3 - 274.0 WEAK, THIN MARC., CALCITE, PYRITE VEINS. 289.5 - 291.0 VITROPHYRE LIKE CHILLED FLOW TOP 292.0 CONTACT IS AUTO-BRECCIA TO 293.0 294.0 - 296.2 HEALED MOSAIC BXA W/ ANGULAR ROUND CLASTS TO 3" + DIA.	262.0 - 283.0 MINOR → MOD CALCITE VEINING W/ BLADED MARC. 267.2 CALCITE, BLADED MARC., PROPYLITIC CLAY ALONG CONTACT
292.0 - 300.0 PLANAR LAMINAR		292.0 - 300.0 GREEN W/ PINKISH BANDS, WEAK PLANAR FEATURES. COMMON, VERY SMALL VESICLES FILLED W/ GREEN CLAY.				294.0 - 296.2 CEMENT/MATRIX IS QUARTZ, DRUZY QUARTZ, BLADED MARC., SOME PY, HARD LT. GREEN CLAY.
		T.D. 300'				299.0 1" VEIN W/ DRUZY QUARTZ, MARC., PY. ON MARC.

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2
258.7	262.0				
262.0	267.0				
267.0	272.0				
272.0	277.0				
277.0	282.0				
282.0	287.0				
287.0	291.0				
291.0	294.0				
294.0	296.0				
296.0	300.0				

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-282-98 DATE: 9/11/98 LOGGED BY: ALLYN WILES PAGE 1 OF 6

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	2.0	0	50.0	0										
2.0	7.0	96.0	96.0	38.0										
7.0	12.0	84.0	92.0	46.0										
12.0	17.0	90.0	96.0	46.0										
17.0	22.0	100.0	100.0	38.0										
22.0	27.0	96.0	96.0	88.0										
27.0	32.0	100.0	100.0	78.0										
32.0	37.0	100.0	100.0	66.0										
37.0	42.0	100.0	100.0	74.0										
42.0	47.0	100.0	100.0	64.0										
47.0	52.0	100.0	98.0	84.0										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-282-98 DATE: LOGGED BY: PAGE 2 OF 6

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)
52.0	57.0	90.0	92.0	58.0										
57.0	62.0	104.0	104.0	76.0										
62.0	67.0	96.0	96.0	52.0										
67.0	72.0	104.0	104.0	56.0										
72.0	77.0	100.0	100.0	88.0										
77.0	82.0	100.0	100.0	78.0										
82.0	87.0	94.0	100.0	44.0										
87.0	89.0	50.0	90.0	0										
89.0	92.0	0	0	0										
92.0	97.0	100.0	100.0	64.0										
97.0	102.0	100.0	100.0	74.0										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-282-98 DATE: 9/12/98 LOGGED BY: _____ PAGE 3 OF 6

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)
102.0	107.0	100.0	100.0	78.0										
107.0	112.0	100.0	100.0	50.0										
112.0	117.0	60.0	82.0	40.0										
117.0	122.0	100.0	100.0	54.0										
122.0	126.5	44.4	77.7	40.0										
126.5	131.5	80.0	100.0	56.0										
131.5	136.5	60.0	104.0	14.0										
136.5	141.5	94.0	94.0	78.0										
141.5	146.0	100.0	100.0	72.0										
146.0	151.0	100.0	100.0	100.0										
151.0	156.0	104.0	104.0	84.0										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-282-98 DATE: LOGGED BY: PAGE 4 OF 6

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)
156.0	161.0	104.0	104.0	104.0										
161.0	166.0	100.0	100.0	96.0										
166.0	171.0	104.0	104.0	104.0										
171.0	176.0	96.0	96.0	96.0										
176.0	180.0	92.5	92.5	92.5										
180.0	185.0	104.0	104.0	104.0										
185.0	190.0	104.0	104.0	94.0										
190.0	192.0	100.0	100.0	100.0										
192.0	197.0	100.0	100.0	100.0										
197.0	202.0	96.0	96.0	96.0										
202.0	207.0	102.0	102.0	54.0										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-282-98 DATE: 9/12-13/98 LOGGED BY: _____ PAGE 5 OF 6

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)
207.0	212.0	100.0	100.0	48.0										
212.0	217.0	100.0	100.0	64.0										
217.0	222.0	102.0	102.0	96.0										
222.0	227.0	100.0	100.0	90.0										
227.0	232.0	100.0	100.0	96.0										
232.0	237.0	100.0	100.0	98.0										
237.0	242.0	100.0	100.0	80.0										
242.0	246.0	50.0	90.0	27.5										
246.0	251.0	96.0	96.0	80.0										
251.0	254.0	80.0	80.0	73.3										
254.0	257.0	106.0	106.6	103.3										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-282-98 DATE: 9/13/98 LOGGED BY: ALLYN NILES PAGE 6 OF 6

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)
257.0	262.0	100.0	100.0	100.0										
262.0	267.0	100.0	100.0	100.0										
267.0	272.0	100.0	100.0	100.0										
272.0	277.0	92.0	92.0	92.0										
277.0	282.0	104.0	104.0	100.0										
282.0	287.0	100.0	100.0	100.0										
287.0	291.0	84.0	87.5	55.0										
291.0	296.0	30.0	80.0	40.0										
296.0	300.0	92.5	92.5	70.0										

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 0050686-IN
INVOICE DATE: 10/01/98

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-282-98	DEVELOPMENT	NET 30 - DUE IN U.S. DOLLARS

QUANTITY	DESCRIPTION	PRICE	AMOUNT
76	SAMPLES RECEIVED	.00	.00
75	DRYING	1.00	75.00
75	JAW CRUSHING CHARGE	1.30	97.50
75	COARSE MILLING CHARGE	4.50	337.50
75	SPLITTING CHARGE	2.40	180.00
75	RING MILLING CHARGE	2.00	150.00
76	Au (1 A.T. FIRE ASSAY)	8.00	608.00
4	Au ANALYSES/GRAVIMETRIC	8.75	35.00
76	HYDROCHLORIC/NITRIC DIGESTION	2.00	152.00
76	Ag ANALYSES	1.00	76.00

86-5110-477

NET INVOICE:	1,711.00
LESS DISCOUNT:	342.20
FREIGHT:	.00
INVOICE TOTAL:	1,368.80

xAMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP050636

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-282-98 RECEIVED : 17 SEP 1998

No. SAMPLES : 76 REPORTED : 1 OCT 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 SP050636

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-282-98

REPORTED : 1 OCT 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-282-98 00-06	0.031			0.05
D-282-98 06-12	0.020			0.03
D-282-98 12-17	0.009			0.03
D-282-98 17-22	<0.001			0.05
D-282-98 22-27	0.002			0.04
D-282-98 27-29	<0.001			0.02
D-282-98 29-32	0.004			0.06
D-282-98 32-37	0.002			0.03
D-282-98 37-42	0.005			0.08
D-282-98 42-47	0.004			0.07
D-282-98 47-52	0.018			0.10
D-282-98 52.0-54.8	0.008			0.08
D-282-98 54.8-57.0	0.011			0.13
D-282-98 57.0-59.5	0.017			0.09
D-282-98 59.5-62.0	0.006			0.06
D-282-98 62-67	0.007			0.07
D-282-98 67-72	0.003			0.07
D-282-98 72-75	0.024			0.07
D-282-98 75-77	0.018			0.10
D-282-98 77-80	0.010			0.06
D-282-98 80-82	0.010			0.10
D-282-98 82-87	0.101		0.084	0.09
D-282-98 87-89	0.005			0.05
D-282-98 92-97	0.014			0.07
D-282-98 97-102	0.012			0.07

AMERICAN ASSAY LABORATORIES

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American Assay Laboratories

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REFERENCE : D-282-98

REPORTED : 1 OCT 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-282-98 102-107	0.002			0.04
D-282-98 107-112	0.002			0.03
D-282-98 112-117	0.071			0.11
D-282-98 117-122	0.011			0.07
D-282-98 122.0-126.5	0.013			0.04
D-282-98 126.5-131.5	0.003			0.04
D-282-98 131.5-134.0	0.008			0.07
D-282-98 134-137	0.035			0.08
D-282-98 137.0-138.8	0.037			0.03
D-282-98 138.8-141.5	0.002			0.04
D-282-98 141.5-146.0	0.015			0.04
D-282-98 146-151	0.002			0.03
D-282-98 151-156	0.002			0.08
D-282-98 156-161	0.005			0.06
D-282-98 161-166	0.002			0.04
D-282-98 166-171	<0.001			0.06
D-282-98 171.0-172.5	0.015			0.05
D-282-98 172.5-176.0	0.002			0.02
D-282-98 176-180	0.001			0.02
D-282-98 180-185	0.024			<0.02
D-282-98 185-190	0.009			0.04
D-282-98 190.0-193.3	0.168		0.138	0.29
D-282-98 193.3-197.0	0.025			0.07
D-282-98 197.0-200.3	0.031			0.10
D-282-98 200.3-203.7	0.056			0.20

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP050636

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-282-98

REPORTED : 1 OCT 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-282-98 203.7-207.0	0.019			0.10
D-282-98 207-212	0.067	0.049		0.17
D-282-98 212-217	0.121		0.136	0.16
D-282-98 217-222	0.010			0.08
D-282-98 222-227	0.081	0.042		0.08
D-282-98 227.0-229.2	0.002			0.05
D-282-98 229.2-233.5	0.013			0.13
D-282-98 233.5-235.8	0.035			0.17
D-282-98 235.8-238.0	0.002			0.04
D-282-98 238-242	0.004			0.06
D-282-98 242-246	0.004			0.05
D-282-98 246-251	0.003			0.05
D-282-98 251.0-255.3	0.012			0.10
D-282-98 255.3-257.0	0.010			0.08
D-282-98 257.0-258.7	0.065		0.067	0.18
D-282-98 258.7-262.0	0.005			0.61
D-282-98 262-267	0.014			0.16
D-282-98 267-272	0.005			0.08
D-282-98 272-277	0.006			0.06
D-282-98 277-282	0.002			0.04
D-282-98 282-287	0.002			0.03
D-282-98 287-291	0.047			0.12
D-282-98 291-294	0.004			0.02
D-282-98 294-296	0.012			0.18
D-282-98 296-300	0.025			0.04

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP050636

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-282-98

REPORTED : 1 OCT 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
40523	0.118			2.70

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP050636

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-282-98 RECEIVED : 17 SEP 1998

No. SAMPLES : 76 REPORTED : 1 OCT 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 SP050636

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-282-98

REPORTED : 1 OCT 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-282-98 00-06	0.031			0.05
D-282-98 06-12	0.020			0.03
D-282-98 12-17	0.009			0.03
D-282-98 17-22	<0.001			0.05
D-282-98 22-27	0.002			0.04
D-282-98 27-29	<0.001			0.02
D-282-98 29-32	0.004			0.06
D-282-98 32-37	0.002			0.03
D-282-98 37-42	0.005			0.08
D-282-98 42-47	0.004			0.07
D-282-98 47-52	0.018			0.10
D-282-98 52.0-54.8	0.008			0.08
D-282-98 54.8-57.0	0.011			0.13
D-282-98 57.0-59.5	0.017			0.09
D-282-98 59.5-62.0	0.006			0.06
D-282-98 62-67	0.007			0.07
D-282-98 67-72	0.003			0.07
D-282-98 72-75	0.024			0.07
D-282-98 75-77	0.018			0.10
D-282-98 77-80	0.010			0.06
D-282-98 80-82	0.010			0.10
D-282-98 82-87	0.101		0.084	0.09
D-282-98 87-89	0.005			0.05
D-282-98 92-97	0.014			0.07
D-282-98 97-102	0.012			0.07

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP050636

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-282-98

REPORTED : 1 OCT 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-282-98 102-107	0.002			0.04
D-282-98 107-112	0.002			0.03
D-282-98 112-117	0.071			0.11
D-282-98 117-122	0.011			0.07
D-282-98 122.0-126.5	0.013			0.04
D-282-98 126.5-131.5	0.003			0.04
D-282-98 131.5-134.0	0.008			0.07
D-282-98 134-137	0.035			0.08
D-282-98 137.0-138.8	0.037			0.03
D-282-98 138.8-141.5	0.002			0.04
D-282-98 141.5-146.0	0.015			0.04
D-282-98 146-151	0.002			0.03
D-282-98 151-156	0.002			0.08
D-282-98 156-161	0.005			0.06
D-282-98 161-166	0.002			0.04
D-282-98 166-171	<0.001			0.06
D-282-98 171.0-172.5	0.015			0.05
D-282-98 172.5-176.0	0.002			0.02
D-282-98 176-180	0.001			0.02
D-282-98 180-185	0.024			<0.02
D-282-98 185-190	0.009			0.04
D-282-98 190.0-193.3	0.168		0.138	0.29
D-282-98 193.3-197.0	0.025			0.07
D-282-98 197.0-200.3	0.031			0.10
D-282-98 200.3-203.7	0.056			0.20

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP050636

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PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-282-98

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SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-282-98 203.7-207.0	0.019			0.10
D-282-98 207-212	0.067	0.049		0.17
D-282-98 212-217	0.121		0.136	0.16
D-282-98 217-222	0.010			0.08
D-282-98 222-227	0.081	0.042		0.08
D-282-98 227.0-229.2	0.002			0.05
D-282-98 229.2-233.5	0.013			0.13
D-282-98 233.5-235.8	0.035			0.17
D-282-98 235.8-238.0	0.002			0.04
D-282-98 238-242	0.004			0.06
D-282-98 242-246	0.004			0.05
D-282-98 246-251	0.003			0.05
D-282-98 251.0-255.3	0.012			0.10
D-282-98 255.3-257.0	0.010			0.08
D-282-98 257.0-258.7	0.065		0.067	0.18
D-282-98 258.7-262.0	0.005			0.61
D-282-98 262-267	0.014			0.16
D-282-98 267-272	0.005			0.08
D-282-98 272-277	0.006			0.06
D-282-98 277-282	0.002			0.04
D-282-98 282-287	0.002			0.03
D-282-98 287-291	0.047			0.12
D-282-98 291-294	0.004			0.02
D-282-98 294-296	0.012			0.18
D-282-98 296-300	0.025			0.04

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP050636

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PROJECT : ROSEBUD DEVELOPMENT
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SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
40523	0.118			2.70

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP050636

PO BOX 11530
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HECLA MINING COMPANY

COPIES TO : KURT ALLEN
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CLIENT REFERENCE No: D-282-98 RECEIVED : 17 SEP 1998

No. SAMPLES : 76 REPORTED : 30 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(R7)	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

PROVISIONAL REPORT SP050636

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-282-98

REPORTED : 30 SEP 1998

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
D-282-98 00-06	0.031			0.05
D-282-98 06-12	0.020			0.03
D-282-98 12-17	0.009			0.03
D-282-98 17-22	<0.001			0.05
D-282-98 22-27	0.002			0.04
D-282-98 27-29	<0.001			0.02
D-282-98 29-32	0.004			0.06
D-282-98 32-37	0.002			0.03
D-282-98 37-42	0.005			0.08
D-282-98 42-47	0.004			0.07
D-282-98 47-52	0.018			0.10
D-282-98 52.0-54.8	0.008			0.08
D-282-98 54.8-57.0	0.011			0.13
D-282-98 57.0-59.5	0.017			0.09
D-282-98 59.5-62.0	0.006			0.06
D-282-98 62-67	0.007			0.07
D-282-98 67-72	0.003			0.07
D-282-98 72-75	0.024			0.07
D-282-98 75-77	0.018			0.10
D-282-98 77-80	0.010			0.06
D-282-98 80-82	0.010			0.10
D-282-98 82-87	0.101		0.084	0.09
D-282-98 87-89	0.005			0.05
D-282-98 92-97	0.014			0.07
D-282-98 97-102	0.012			0.07

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D-282-98 138.8-141.5	0.002			0.04
D-282-98 141.5-146.0	0.015			0.04
D-282-98 146-151	0.002			0.03
D-282-98 151-156	0.002			0.08
D-282-98 156-161	0.005			0.06
D-282-98 161-166	0.002			0.04
D-282-98 166-171	<0.001			0.06
D-282-98 171.0-172.5	0.015			0.05
D-282-98 172.5-176.0	0.002			0.02
D-282-98 176-180	0.001			0.02
D-282-98 180-185	0.024			<0.02
D-282-98 185-190	0.009			0.04
D-282-98 190.0-193.3	0.168		0.138	0.29
D-282-98 193.3-197.0	0.025			0.07
D-282-98 197.0-200.3	0.031			0.10
D-282-98 200.3-203.7	0.056			0.20

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SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
D-282-98 203.7-207.0	0.019			0.10
D-282-98 207-212	0.067	0.049		0.17
D-282-98 212-217	0.121		0.136	0.16
D-282-98 217-222	0.010			0.08
D-282-98 222-227	0.081	0.042		0.08
D-282-98 227.0-229.2	0.002			0.05
D-282-98 229.2-233.5	0.013			0.13
D-282-98 233.5-235.8	0.035			0.17
D-282-98 235.8-238.0	0.002			0.04
D-282-98 238-242	0.004			0.06
D-282-98 242-246	0.004			0.05
D-282-98 246-251	0.003			0.05
D-282-98 251.0-255.3	0.012			0.10
D-282-98 255.3-257.0	0.010			0.08
D-282-98 257.0-258.7	0.065		0.067	0.18
D-282-98 258.7-262.0	0.005			0.61
D-282-98 262-267	0.014			0.16
D-282-98 267-272	0.005			0.08
D-282-98 272-277	0.006			0.06
D-282-98 277-282	0.002			0.04
D-282-98 282-287	0.002			0.03
D-282-98 287-291	0.047			0.12
D-282-98 291-294	0.004			0.02
D-282-98 294-296	0.012			0.18
D-282-98 296-300	0.025			0.04

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP050636

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-282-98

REPORTED : 30 SEP 1998

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
40523	0.118			2.70

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

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

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

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

Other Offices
Lima, Peru
Santiago, Chile
Mendoza, Argentina

Company: ROSEBUD MINING LLC

Address: PO. BOX 2610

City WINNEMUCCA State NV Zip 89445

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

Project Name: DEVELOPMENT Purchase Order Number:

Date Submitted: 9/15/98 Number of Samples: 75

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

AU-AG, ACCORDING TO ROSEBUD MINE PROCEDURE

D-282-98 SAMPLE IDENTIFICATION	TYPE	ELEMENTS REQUIRED
0-6 62-67 126.5-131.5		185-190 242-246
6-12 67-72 131.5-134		190-193.3 246-251
12-17 72-75 134-137		193.3-197 251-255.3
17-22 75-77 137-138.8		197-200.3 255.3-257
22-27 77-80 138.8-141.5		200.3-203.7 257-258.7
27-29 80-82 141.5-146		203.7-207 258.7-262
29-32 82-87 146-151		207-212 262-267
32-37 87-89 151-156		212-217 267-272
37-42 92-97 156-161		217-222 272-277
42-47 97-102 161-166		222-227 277-282
47-52 102-107 166-171		227-229.2 287-291
52-54.8 107-112 171-172.5		229.2-233.5 291-294
54.8-57 112-117 172.5-176		233.5-235.8 294-296
57-59.5 117-122 176-180		235.8-238 296-300
59.5-62 122-126.5 180-185		238-242 282-287

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:

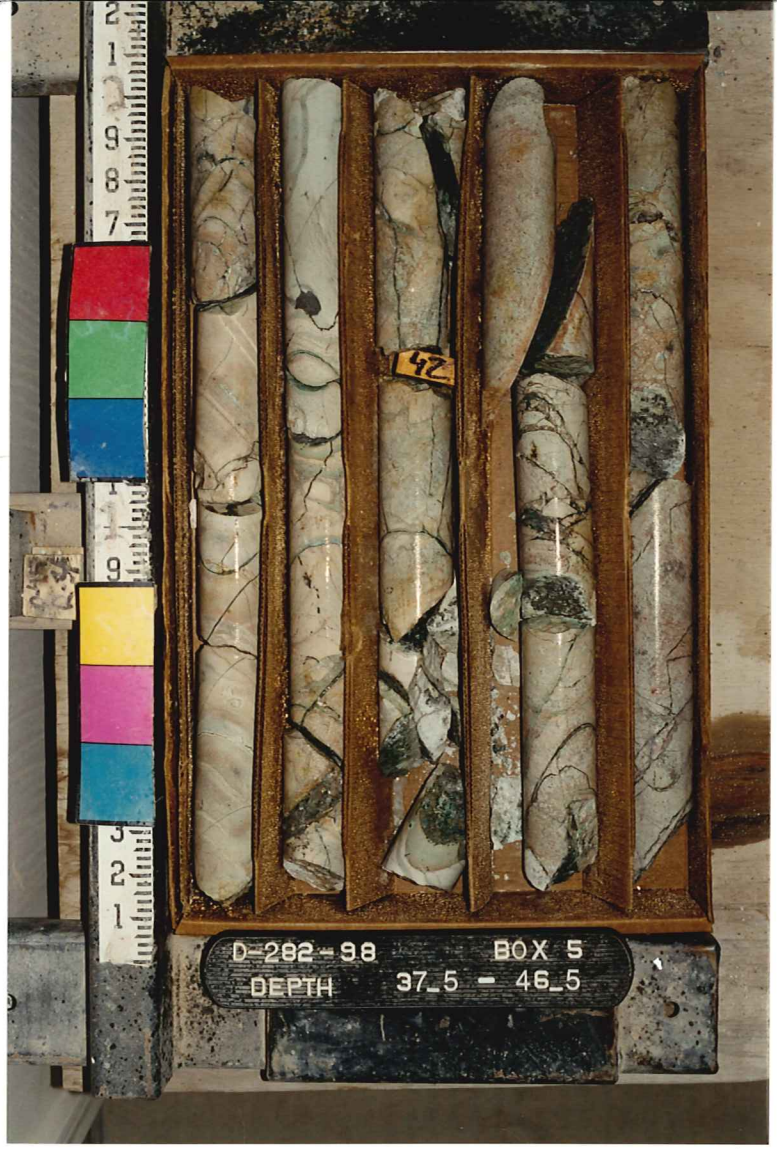
CLIENT FILE COPY

D-282-98	0	45.5	124.7
	150	46	123.2
	300	46	124.7

12
17
D-282-98
BOX 2
DEPTH
10_5 - 20

2
7
D-282-98
BOX 1
DEPTH
0 - 10_5

22
D-282-98
BOX 3
DEPTH
20 - 29


42
D-282-98
BOX 5
DEPTH
37_5 - 46_5

32
32
D-282-98
BOX 4
DEPTH
29 - 37_5

47
47
D-282-98
BOX 6
DEPTH
46_5 - 55

67
72
D-282-98
BOX 8
DEPTH
64_5 - 73_5

57
62
D-282-98
BOX 7
DEPTH
55 - 64_5

77
83
D-282-98
BOX 9
DEPTH
73_5 - 82_5

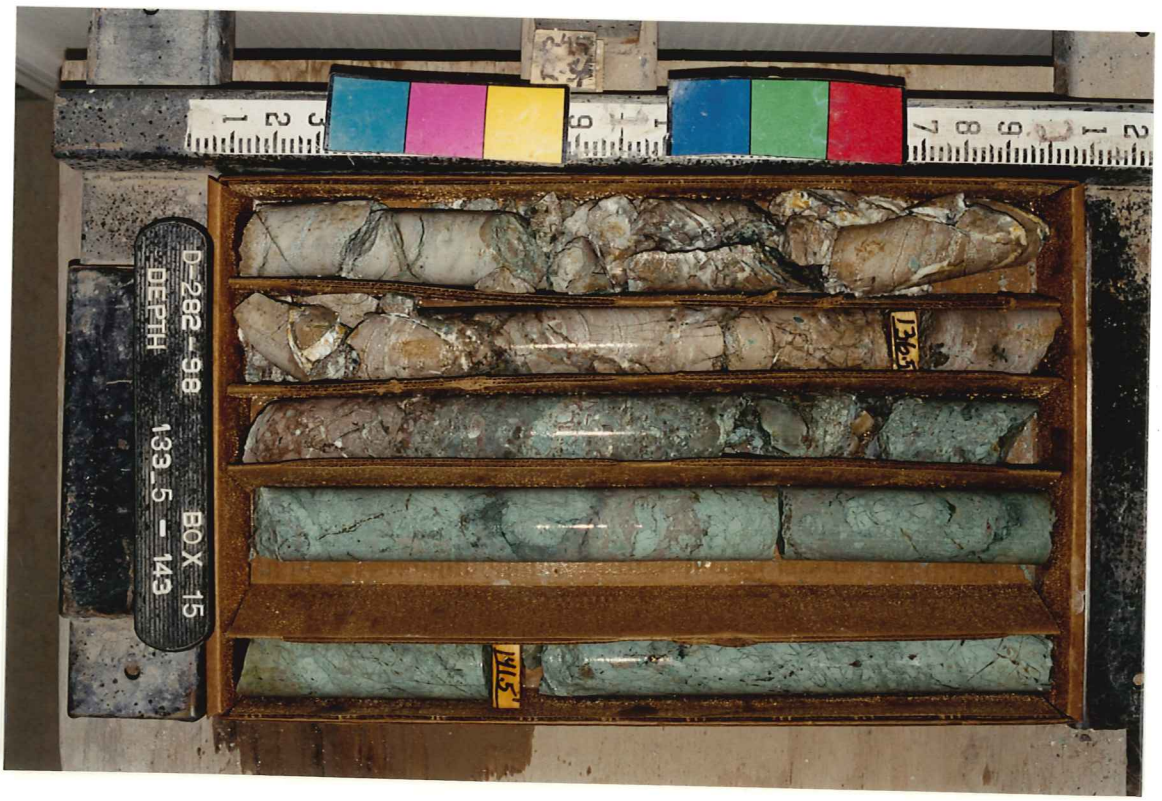
D-282-98
BOX 11
DEPTH
95 - 104_5
97'

D-282-98
BOX 10
DEPTH
82_5 - 95
87'

D-282-98
BOX 12
DEPTH
104_5 - 113_5
107
112

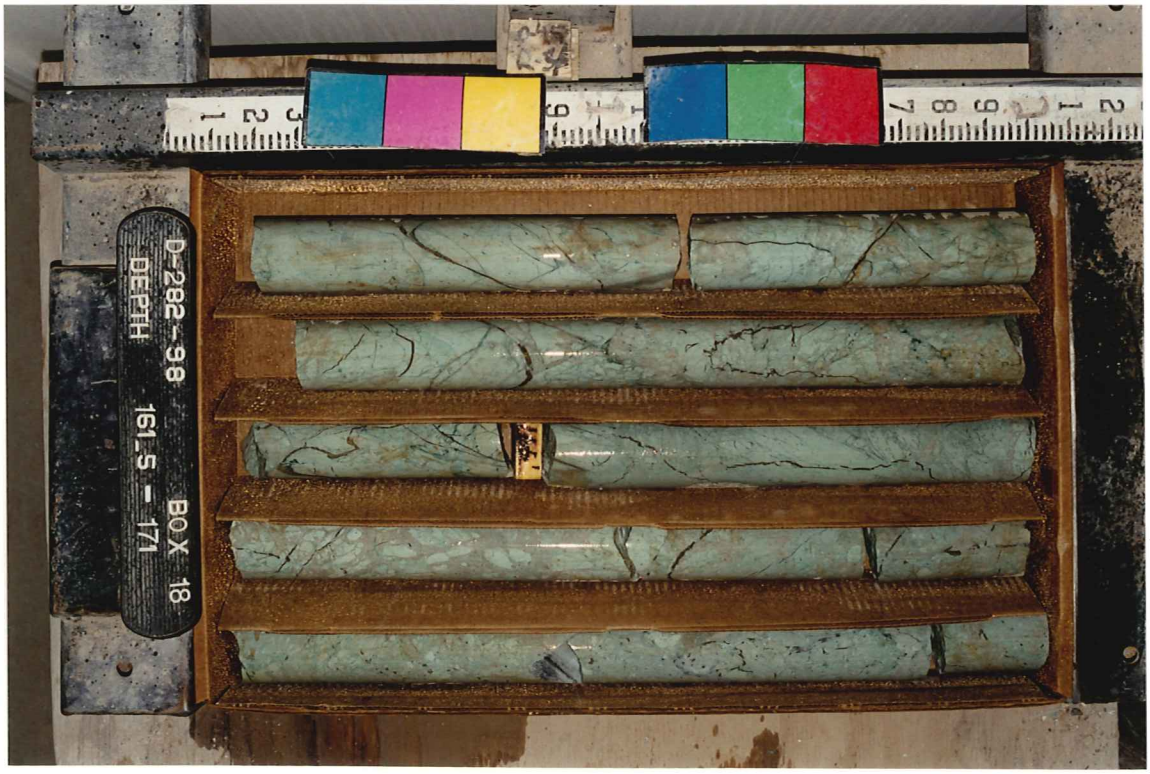
D-282-98
BOX 14
DEPTH
123_5 - 133_5
126.5'
131.5'

D-282-98
BOX 13
DEPTH
113_5 - 123_5
117'
122'


D-282-98
BOX 15
DEPTH
133_5 - 143
136.5'
141.5'

D-282-98
BOX 17
DEPTH 152_5 - 161_5
161'
150

D-282-98
BOX 16
DEPTH 143 - 152_5
146'
151'


D-282-98
BOX 18
DEPTH 161_5 - 171

D-282-98
BOX 20
DEPTH 180_5 - 190
185'

D-282-98
BOX 19
DEPTH 171 - 180_5
171'
176'
180'

D-282-98
BOX 21
DEPTH 190 - 199_5
190'
192'
197'

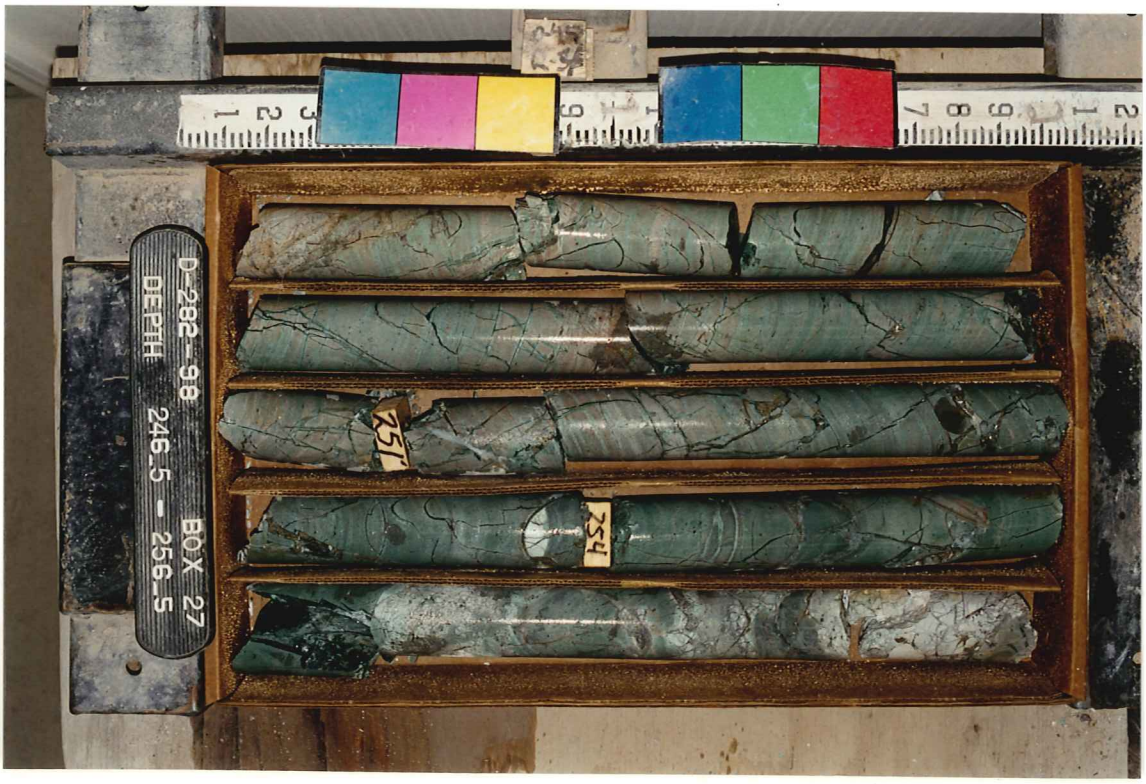
D-282-98 BOX 23
DEPTH 209 - 218

D-282-98 BOX 22
DEPTH 199.5 - 209

D-282-98 BOX 24
DEPTH 218 - 227.5

242
246
237
D-282-98 BOX 26
DEPTH 237 - 246_5

232
D-282-98 BOX 25
DEPTH 227_5 - 237


D-282-98 BOX 27
DEPTH 246_5 - 256_5
251
254

269
272
D-282-98 BOX 29
DEPTH 266 - 275_5

262
257
D-282-98 BOX 28
DEPTH 256_5 - 266

D-282-98 BOX 30
DEPTH 275_5 - 285
277
282

TD
300'
296'
D-282-98 BOX 32
DEPTH 296 - 300 TD

287
297
296
D-282-98 BOX 31
DEPTH 285 - 296

SINGLE SHOT
PHOTO DISC RECORD

COMPANY Heda
WELL NAME D-282-98
LEASE
TAKEN BY Magoon
DEPTH 300
DATE
DRIFT ANGLE
DIRECTION
TYPE
JOB NO.
HI-1408

50
40
30
40
30

SINGLE SHOT
PHOTO DISC RECORD

COMPANY Hecla
WELL NAME D-282-98
LEASE
TAKEN BY Magoon
DEPTH 150
DATE
DRIFT ANGLE
DIRECTION
TYPE
JOB NO.
HI-1408

SINGLE SHOT
PHOTO DISC RECORD

COMPANY Hecla
WELL NAME D-282-98
LEASE
TAKEN BY Magoon
DEPTH Collar
DATE
DRIFT ANGLE
DIRECTION
TYPE
JOB NO.
HI-1408