6000112-2

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-243-98
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.; South Zone
COMMODITY If not obvious	gold; silver
NOTES	Drill log; geology; assay; photographs; total depth 200' receipt; handwritten notes; downhole camera images 29p. 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: DD 5/13/08
Initials Date

DB: mah
Initials Date

SCANNED:
Initials Date

Revised: 1/22/08

D-243-98

66001122 4010

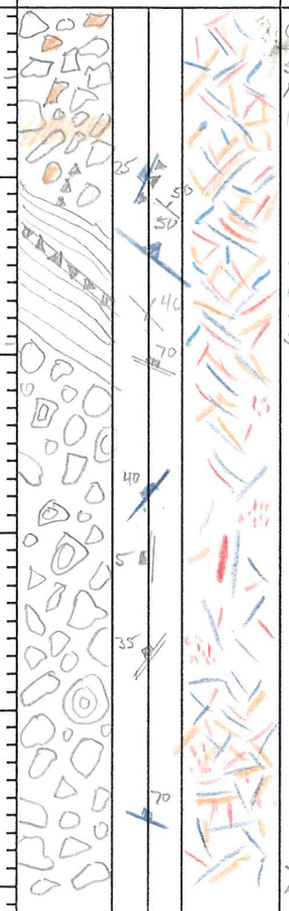
60001122

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

Hecla MINING COMPANY

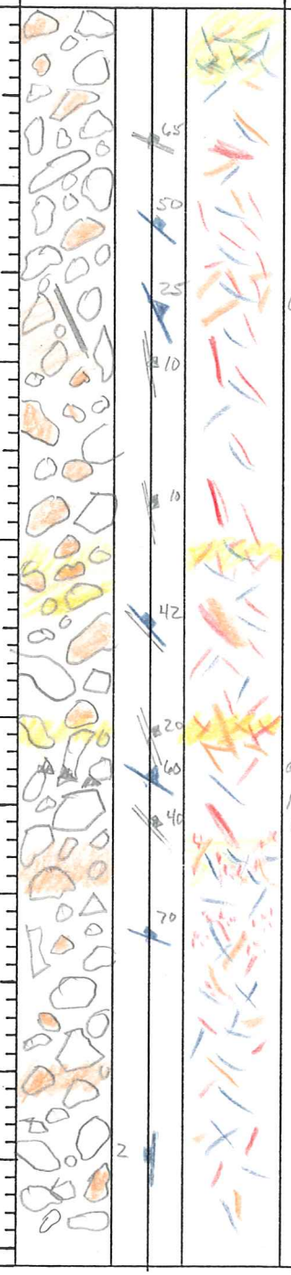
ROSEBUD PROJECT
DIAMOND DRILL LOG

HOLE NUMBER	D-243-98	LOCATION	STOPE 13 SOUTH ZONE SEC. 100	REMARKS	
PAGE 1 OF 4		NORTHING			
DATE	7/12-13/98	EASTING			
LOGGED BY	ALLYN NILES	ELEVATION			
SCALE	1" = 10'	AZIMUTH	303		
TOTAL DEPTH	200'	INCLINATION	+55		

REC	RQD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
0.0 - 200.0		0 - 11.0 LT. PINK TO LT. GRAY TO WHITE, SMALL, ANGULAR, UNSORTED BRECCIA CLASTS IN A LT. PINK TO LT. GRAY APHANITIC CLAY MATRIX. OCCASIONAL ROUND PINK VACUOLES FILLED W/ SAME CLAY MATRIX. CLASTS SHOW WEAK → MOD ARGILLIC ALT. 11.0 - 20.6 LT. PINK, FLOW BANDED RHYOLITE W/ ZONES TO 1' Ø OF ROUND AUTO BRECCIA CLASTS. 20.6 - 50.0 GRAY TO WHITE TO PINK ROUND TO SUBANGULAR CLASTS IN A LT. PINK, FINE GRAIN CLAY MATRIX, MANY CLASTS SHOW PARTIAL ARGILLIC ALT. W/ WHITE RIM SURROUNDING A GRAY CORE. OTHERS ARE COMPLETELY ALT. TO WHITE CLAY. PINK CLASTS SHOW SELECTIVE SULFIDE ENRICHMENT	PIMA 10 PIMA 20 30 40 50		0 - 15.0 STRONG FRACTURING, ALMOST CRACKLE BRECCIA. 14.2 WEAKLY HEALED BRECCIA W/ ANGULAR SMALL FRAGS, CLAST SUPPORTED. 45.0 - 50.0 SUBSTANTIAL CORE LOSS. 1.5' RECOVERED	0 - 15.0 DK. BLUE STAIN ASSOC. W/ BLACK & WHITE CLAY. IS COMMON. CALCITE TO 14.0' SULFIDES COMMON W/ CLAYS & AS DISSEM. 5% - 10% TOTAL. 15.0 - 25.0 WEAK DK. BLUE STAIN, DECREASED BLACK CLAY NO CALCITE, WEAK SULFIDES. 25.0 - 35.0 MOD. SULFIDE VEINING 35.0 - 45.0 MOD. BLADED MARCASITE VEINS.

ANALYTICAL DATA						
FROM	TO	W	Au	Ag	Au2	Ag2
0.0	3.0					
3.0	5.0					
5.0	7.5					
7.5	9.2					
9.2	11.0					
11.0	13.6					
13.6	15.0					
15.0	17.1					
17.1	20.0					
20.0	22.0					
22.0	24.0					
24.0	26.6					
26.6	29.0					
29.0	31.0					
31.0	35.0					
35.0	40.0					
40.0	42.5					
42.5	45.0					
45.0	50.0					

HOLE NUMBER D-243-98 PAGE 2 OF 4

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2
0.0 - 200.0 PINK MATRIX BRECCIA		50.0 - 118 GRADATIONAL CHANGE PINK, ROUND TO ANGULAR AUTO BRECCIA CLASTS TO 3" DIA OR MORE. SELECTIVE ARGILLIC ALT. HAS BLEACHED & LEACHED SOME CLASTS TO WHITE. PIMA	60 70 80 90 100 110 120		65.7 THIN FAULT, 1" Ø w/ ANGULAR SMALL BXA FRAGS & DISSEM. SULFIDES 90.8 - 91.7 BRECCIA HEALED W/ WHITE CLAY & BLADED MARCASITE.	50.0 - 53.0 MOD TO STRONG SELECTIVE SULFIDE REPLACEMENT OF BRECCIA MATRIX. SULFIDES TOTAL 10% OR MORE. 60.0 - 61.0 SAME AS 50.0 - 53.0 64.0 - 65.6 SAME AS 50.0 - 53.0, SEEMS TO BE RELATED TO THIN FAULT @ 65.7 50.0 - 64.0 MOD. WHITE CLAY VEINS & OPEN SPACE FILLINGS. 66.5 - 74.0 WEAK → MOD ARGILLIC ALT. 77.0 - 78.3 WEAK → MOD ARGILLIC ALT 80.2 - 83.6 DIFFERENTIAL SILICA & DISSEM. SULFIDE. REPLACEMENT OF MATRIX W/ ARGILLIC ALT. OF CLASTS AND SILICA FLOODING OF BOTH CLASTS & MATRIX. STRONG MARCASITE VEINING, INCREASED WHITE CLAY VEINS. 90.0 - 91.0 VUGGY STOCKWORK SILICA REPLACEMENT W/ INCREASED SULFIDES, STRONG WHITE CLAY VEINING 89.0 - 92.0 93.6 - 98.6 MOD ARGILLIC ALT. 101.0 - 102.5 STRONG ARGILLIC ALT	50.0 54.0 59.0 64.0 65.8 69.0 74.0 78.3 80.0 83.6 86.7 89.0 92.0 94.0 99.0 104.0 108.0 110.3 113.0 116.0 118.0	54.0 59.0 64.0 65.8 69.0 74.0 78.3 80.0 83.6 86.7 89.0 92.0 94.0 99.0 104.0 108.0 110.3 113.0 116.0 118.0				

HOLE NUMBER D-243-98 PAGE 3 OF 4

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
0.0 – 200.0 PINK MATRIX BRECCIA		118.0 – 177.2 HETEROLITHIC PYROCLASTIC BRECCIA, LT. GREEN TO RARE WHITE; ROUNDED, UNSORTED CLASTS & POSSIBLE THIN FLOWS TO 6" Ø, WEAKLY TO MOD. ARGILLIZED / PROPYLITIZED. MATRIX IS VERY FINE GRAIN PINK VOLCANIC CLAY. PIMA → 177.2 – 181.8 FAULT/STRUCTURE ZONE 181.8 – 200.0 SMALL, ROUNDED, GREEN TO LT. GREEN TO WHITE ALT. VOLCANIC FRAGS, POSSIBLY HETEROLITHIC. MATRIX IS VERY LT. GREEN GRAINY, FRAGMENTAL, ARGILLIC ALT. VOLCANIC PARTICLES.	130 140 150 160 170 180 190	70, 33, 30, 20, 30, 35, 60, 65, 10, 53, 50, 40, 30	156.0 – 169.0 STRONG FRACTURING, STRUCTURAL ZONE, POSSIBLE TECTONIC BRECCIA 174 – 179 SUBSTANTIAL CORE LOSS 3.4' RECOVERED 177.2 – 181.9 FAULT GOUGE, SOFT, PUNKY, FLAKEY, SOME BRECCIA. 181.8 – ARGILLIC ALT. HAS CREATED WEAK, EASILY CRUMBLED ROCK UNITS.	118.0 – 177.2 SELECTIVE SULFIDE ENRICHMENT OF SOME ARGILLIC ALT. CLASTS. 118.0 – 166.0 MOD TO STRONG BLADED MARCASITE VEINS W/ VARIABLE WHITE CLAY. BLADES ARE OFTEN COATED W/ BLACK WAXY, SOFT CLAY AND SEEM TO REPLACE BLADES IN SOME PLACES. 156.0 – 169.0 MOD. PROP. ALT. WEAK ARGILLIC ALT STRONG WHITE CLAY & BLADED MARCASITE VEINING & OPEN SPACE FILLINGS 175 – 177.2 WEAK, PODDY GREEN STAIN, WEAK ARGILLIC ALT. ASSOC. W/ FAULT. 177.2 – 181.8 STRONG GREEN PROP. ALT. DISAGGREGATE MARCASITE BLADES & VEINS. INCREASED DISSEM. SULFIDES 181.8 – 200 MOD. GREEN PROPYLITIC STAIN & ALT., WEAK TO MOD. ARGILLIC ALT W/ POSSIBLE LEACHING.

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2
118.0	122.2				
122.2	125.0				
125.0	127.3				
127.3	130.0				
130.0	131.7				
131.7	134.0				
134.0	139.0				
139.0	141.0				
141.0	143.0				
143.0	145.0				
145.0	147.5				
147.5	150.0				
150.0	152.5				
152.5	156.2				
156.2	160.0				
160.0	163.0				
163.0	166.0				
166.0	169.0				
169.0	174.0				
174.0	177.2				
177.2	181.8				
181.8	183.0				
183.0	188.0				

HOLE NUMBER D-243-98 PAGE 4 OF 4

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2
0.0 - 200.0 PINK MATRIX BRECCIA		181.8 - 200.0 SEE DESCRIPTION PAGE 3	200	20 35	190 - 200 FRACTURES APPEAR TO BE ABSORBED IN ARGILLIC CLAY.	193.5 - 200 STRONG ARGILLIC ALT. IS PROBABLY POST-MINERAL DUE TO LACK OF INCREASED DISSEM. SULFIDES, MINOR AGGREGATES OF BLADED MARCASITE & MARCASITE VEINS. 196.0 - 200 SCATTERED GRAY → GREEN SILICIFIED GLASTS.	188.0	192.5				
							192.5	196.0				
		T.D. 200'					196.0	200.0				

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-243-98 DATE: 7/12/98 LOGGED BY: ALLYN DILES PAGE 1 OF 5

DRILL RUN		SOLID CORE	TOTAL CORE	RQD	ROCK STRENGTH		FRACTURE DATA				DENSITY DATA			
FROM	TO	RECOVERY (%)	RECOVERY (%)		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	0.0										
5.0	10.0	100.0	100.0	0.0										
10.0	15.0	80.0	70.0	0.0										
15.0	20.0	100.0	94.0	18.0										
20.0	24.0	85.0	75.0	0.0										
24.0	25.0	95.0	90.0	0.0										
25.0	30.0	100.0	98.0	20.0										
30.0	35.0	100.0	100.0	20.0										
35.0	40.0	90.0	80.0	0.0										
40.0	45.0	60.0	80.0	12.0										
45.0	50.0	20.0	30.0	0.0										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-243-98 DATE: _____ LOGGED BY: _____ PAGE 2 OF 5

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)
50.0	54.0	60.0	100.0	25.0										
54.0	59.0	94.0	96.0	32.0										
59.0	64.0	98.0	96.0	16.0										
64.0	69.0	98.0	100.0	20.0										
69.0	74.0	40.0	100.0	36.0										
74.0	79.0	98.0	96.0	60.0										
79.0	84.0	96.0	84.0	28.0										
84.0	89.0	100.0	100.0	10.0										
89.0	94.0	100.0	96.0	36.0										
94.0	99.0	96.0	96.0	22.0										
99.0	104.0	100.0	100.0	0.0										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-243-98 DATE: _____ LOGGED BY: _____ PAGE 3 OF 5

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)
104.0	108.0	30.0	80.0	10.0										
108.0	109.0	60.0	86.6	0.0										
109.0	114.5	98.0	104.0	16.0										
114.5	116.0	100.0	100.0	66.6										
116.0	120.0	90.0	100.0	27.5										
120.0	125.0	96.0	100.0	20.0										
125.0	130.0	100.0	94.0	16.0										
130.0	134.6	25.0	87.5	0.0										
134.0	139.0	50.0	90.0	8.0										
139.0	141.6	95.0	115.0	20.0										
141.0	145.0	80.0	87.5	35.0										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-243-98 DATE: _____ LOGGED BY: _____ PAGE 4 OF 5

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)
145.0	150.0	36.0	64.0	8.0										
150.0	155.0	92.0	96.0	32.0										
155.0	160.0	20.0	60.0	8.0										
160.0	163.0	43.3	70.0	13.3										
163.0	165.0	0.0	75.0	0.0										
165.0	169.0	14.0	65.0	0.0										
169.0	174.0	98.0	98.0	72.0										
174.0	179.0	65.0	77.5	28.0										
179.0	183.0	96.0	100.0	28.0										
183.0	188.0	100.0	100.0	28.0										
188.0	192.5	38.0	77.7	0.0										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-243-98 DATE: 7/12/98 LOGGED BY: ALLYN NILES PAGE 5 OF 5

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)
192.5	196.0	43.0	74.3	0.0										
196.0	200.0	50.0	77.5	20.0										

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 0049512-IN
INVOICE DATE: 07/27/98

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-243-98	DEVELOPMENT	NET 30 - DUE IN U.S. DOLLARS

QUANTITY	DESCRIPTION	PRICE	AMOUNT
66	SAMPLES RECEIVED	.00	.00
65	JAW CRUSHING CHARGE	1.30	84.50
65	COARSE MILLING CHARGE	4.50	292.50
65	SPLITTING CHARGE	2.40	156.00
65	RING MILLING CHARGE	2.00	130.00
66	Au (1 A.T. FIRE ASSAY)	8.00	528.00
9	Au ANALYSES/GRAVIMETRIC	8.75	78.75
66	HYDROCHLORIC/NITRIC DIGESTION	2.00	132.00
66	Ag ANALYSES	1.00	66.00
6	Ag (ore grade) ANALYSES	5.00	30.00

4200-13-9999-477

NET INVOICE:	1,497.75
LESS DISCOUNT:	299.55
FREIGHT:	.00
INVOICE TOTAL:	1,198.20

xAMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP049512

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-243-98 RECEIVED : 15 JUL 1998

No. SAMPLES : 66 REPORTED : 24 JUL 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 SP049512

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-243-98

REPORTED : 24 JUL 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-243-98 0-3	0.287		0.289	3.44
D-243-98 3-5	0.101		0.082	11.80
D-243-98 5.0-7.5	0.085		0.078	7.55
D-243-98 7.5-9.2	0.013			0.46
D-243-98 9.2-11.0	0.094		0.105	4.17
D-243-98 11.0-13.6	0.098		0.104	1.86
D-243-98 13.6-15.0	0.009			1.38
D-243-98 15.0-17.1	0.015			0.66
D-243-98 17.1-20.0	0.026	0.027		1.57
D-243-98 20-22	0.005			0.14
D-243-98 22-24	0.011			0.47
D-243-98 24.0-26.6	0.005			0.14
D-243-98 26.6-29.0	0.003			0.10
D-243-98 29-31	0.022	0.018		0.43
D-243-98 31-35	0.023			0.24
D-243-98 35-40	0.051		0.067	0.71
D-243-98 40.0-42.5	0.074		0.080	0.21
D-243-98 42.5-45.0	0.067		0.068	0.20
D-243-98 45-50	0.024			0.11
D-243-98 50-54	0.044		0.064	0.20
D-243-98 54-59	0.026			0.12
D-243-98 59-64	0.008			0.09
D-243-98 64.0-65.8	0.012			0.24
D-243-98 65.8-69.0	0.006			0.12
D-243-98 69-74	0.007			0.12

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ANALYSIS REPORT SP049512

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-243-98

REPORTED : 24 JUL 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-243-98 74.0-78.3	0.013			0.07
D-243-98 78.3-80.0	0.004			0.07
D-243-98 80.0-83.6	0.009			0.11
D-243-98 83.6-86.7	0.008			0.09
D-243-98 86.7-89.0	0.005			0.09
D-243-98 89-92	0.006			0.09
D-243-98 92-94	0.009			0.12
D-243-98 94-99	0.003			0.05
D-243-98 99-104	0.002			0.05
D-243-98 104-108	0.002			0.03
D-243-98 108.0-110.3	0.002			0.05
D-243-98 110.3-113.0	0.003	0.004		0.12
D-243-98 113-116	0.004			0.08
D-243-98 116-118	0.003			0.07
D-243-98 118.0-122.2	0.003			0.06
D-243-98 122.2-125.0	0.004			0.08
D-243-98 125.0-127.3	0.003			0.08
D-243-98 127.3-130.0	0.005			0.08
D-243-98 130.0-131.7	0.004			0.09
D-243-98 131.7-134.0	0.003			0.08
D-243-98 134-139	0.004			0.08
D-243-98 139-141	0.004			0.09
D-243-98 141-143	0.003			0.09
D-243-98 143-145	0.003			0.09
D-243-98 145.0-147.5	0.004			0.08

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP049512

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-243-98

REPORTED : 24 JUL 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-243-98 147.5-150.0	0.004			0.07
D-243-98 150.0-152.5	0.004			0.11
D-243-98 152.5-156.2	0.004			0.10
D-243-98 156.2-160.0	0.005			0.12
D-243-98 160-163	0.005			0.16
D-243-98 163-166	0.004			0.11
D-243-98 166-169	0.003			0.10
D-243-98 169-174	0.003			0.05
D-243-98 174.0-177.2	0.006			0.10
D-243-98 177.2-181.8	0.006			0.29
D-243-98 181.8-183.0	0.004			0.15
D-243-98 183-188	0.002			0.03
D-243-98 188.0-192.5	0.001			0.03
D-243-98 192.5-196.0	0.001			<0.02
D-243-98 196-200	0.001			<0.02
34452	0.131			2.62

xAMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP049512

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-243-98 RECEIVED : 15 JUL 1998

No. SAMPLES : 66 REPORTED : 24 JUL 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 SP049512

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-243-98

REPORTED : 24 JUL 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-243-98 0-3	0.287		0.289	3.44
D-243-98 3-5	0.101		0.082	11.80
D-243-98 5.0-7.5	0.085		0.078	7.55
D-243-98 7.5-9.2	0.013			0.46
D-243-98 9.2-11.0	0.094		0.105	4.17
D-243-98 11.0-13.6	0.098		0.104	1.86
D-243-98 13.6-15.0	0.009			1.38
D-243-98 15.0-17.1	0.015			0.66
D-243-98 17.1-20.0	0.026	0.027		1.57
D-243-98 20-22	0.005			0.14
D-243-98 22-24	0.011			0.47
D-243-98 24.0-26.6	0.005			0.14
D-243-98 26.6-29.0	0.003			0.10
D-243-98 29-31	0.022	0.018		0.43
D-243-98 31-35	0.023			0.24
D-243-98 35-40	0.051		0.067	0.71
D-243-98 40.0-42.5	0.074		0.080	0.21
D-243-98 42.5-45.0	0.067		0.068	0.20
D-243-98 45-50	0.024			0.11
D-243-98 50-54	0.044		0.064	0.20
D-243-98 54-59	0.026			0.12
D-243-98 59-64	0.008			0.09
D-243-98 64.0-65.8	0.012			0.24
D-243-98 65.8-69.0	0.006			0.12
D-243-98 69-74	0.007			0.12

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP049512

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-243-98

REPORTED : 24 JUL 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-243-98 74.0-78.3	0.013			0.07
D-243-98 78.3-80.0	0.004			0.07
D-243-98 80.0-83.6	0.009			0.11
D-243-98 83.6-86.7	0.008			0.09
D-243-98 86.7-89.0	0.005			0.09
D-243-98 89-92	0.006			0.09
D-243-98 92-94	0.009			0.12
D-243-98 94-99	0.003			0.05
D-243-98 99-104	0.002			0.05
D-243-98 104-108	0.002			0.03
D-243-98 108.0-110.3	0.002			0.05
D-243-98 110.3-113.0	0.003	0.004		0.12
D-243-98 113-116	0.004			0.08
D-243-98 116-118	0.003			0.07
D-243-98 118.0-122.2	0.003			0.06
D-243-98 122.2-125.0	0.004			0.08
D-243-98 125.0-127.3	0.003			0.08
D-243-98 127.3-130.0	0.005			0.08
D-243-98 130.0-131.7	0.004			0.09
D-243-98 131.7-134.0	0.003			0.08
D-243-98 134-139	0.004			0.08
D-243-98 139-141	0.004			0.09
D-243-98 141-143	0.003			0.09
D-243-98 143-145	0.003			0.09
D-243-98 145.0-147.5	0.004			0.08

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP049512

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-243-98

REPORTED : 24 JUL 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-243-98 147.5-150.0	0.004			0.07
D-243-98 150.0-152.5	0.004			0.11
D-243-98 152.5-156.2	0.004			0.10
D-243-98 156.2-160.0	0.005			0.12
D-243-98 160-163	0.005			0.16
D-243-98 163-166	0.004			0.11
D-243-98 166-169	0.003			0.10
D-243-98 169-174	0.003			0.05
D-243-98 174.0-177.2	0.006			0.10
D-243-98 177.2-181.8	0.006			0.29
D-243-98 181.8-183.0	0.004			0.15
D-243-98 183-188	0.002			0.03
D-243-98 188.0-192.5	0.001			0.03
D-243-98 192.5-196.0	0.001			<0.02
D-243-98 196-200	0.001			<0.02
34452	0.131			2.62

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP049512

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-243-98 RECEIVED : 15 JUL 1998

No. SAMPLES : 66 REPORTED : 24 JUL 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)	DZ10	10%	OPT	0.02

SIGNATORY : Susan King M.S.

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP049512

CLIENT : BECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-243-98

REPORTED : 24 JUL 1998

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
D-243-98 0-3	0.287		0.289	3.44
D-243-98 3-5	0.101		0.082	11.80
D-243-98 5.0-7.5	0.085		0.078	7.55
D-243-98 7.5-9.2	0.013			0.45
D-243-98 9.2-11.0	0.094		0.105	4.17
D-243-98 11.0-13.6	0.098		0.104	1.86
D-243-98 13.6-15.0	0.009			1.38
D-243-98 15.0-17.1	0.015			0.66
D-243-98 17.1-20.0	0.026	0.027		1.57
D-243-98 20-22	0.005			0.14
D-243-98 22-24	0.011			0.47
D-243-98 24.0-26.6	0.005			0.14
D-243-98 26.6-29.0	0.003			0.10
D-243-98 29-31	0.022	0.018		0.43
D-243-98 31-35	0.023			0.24
D-243-98 35-40	0.051		0.067	0.71
D-243-98 40.0-42.5	0.074		0.080	0.21
D-243-98 42.5-45.0	0.067		0.068	0.20
D-243-98 45-50	0.024			0.11
D-243-98 50-54	0.044		0.064	0.20
D-243-98 54-59	0.026			0.12
D-243-98 59-64	0.008			0.09
D-243-98 64.0-65.8	0.012			0.24
D-243-98 65.8-69.0	0.006			0.12
D-243-98 69-74	0.007			0.12

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP049512

CLIENT : RECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-243-98

REPORTED : 24 JUL 1998

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
D-243-98 74.0-78.3	0.013			0.07
D-243-98 78.3-80.0	0.004			0.07
D-243-98 80.0-83.6	0.009			0.11
D-243-98 83.6-86.7	0.008			0.09
D-243-98 86.7-89.0	0.005			0.09
D-243-98 89-92	0.006			0.09
D-243-98 92-94	0.009			0.12
D-243-98 94-99	0.003			0.05
D-243-98 99-104	0.002			0.05
D-243-98 104-108	0.002			0.03
D-243-98 108.0-110.3	0.002			0.05
D-242-98 110.3-113.0	0.003	0.004		0.12
D-243-98 113-116	0.004			0.08
D-243-98 116-118	0.003			0.07
D-243-98 118.0-122.2	0.003			0.06
D-243-98 122.2-125.0	0.004			0.08
D-243-98 125.0-127.3	0.002			0.03
D-243-98 127.3-130.0	0.005			0.08
D-243-98 130.0-131.7	0.004			0.09
D-243-98 131.7-134.0	0.003			0.08
D-243-98 134-139	0.004			0.08
D-243-98 139-141	0.004			0.09
D-243-98 141-143	0.003			0.09
D-243-98 143-145	0.003			0.09
D-243-98 145.0-147.5	0.004			0.08

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP049512

CLIENT : MECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-243-98

REPORTED : 24 JUL 1998

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
D-243-98 147.5-150.0	0.004			0.07
D-243-98 150.0-152.5	0.004			0.11
D-243-98 152.5-156.2	0.004			0.19
D-243-98 156.2-160.0	0.005			0.12
D-243-98 160-163	0.005			0.16
D-243-98 163-166	0.004			0.11
D-243-98 166-169	0.003			0.10
D-243-98 169-174	0.003			0.05
D-243-98 174.0-177.2	0.006			0.10
D-243-98 177.2-181.8	0.006			0.29
D-243-98 181.8-183.0	0.004			0.15
D-243-98 183-188	0.002			0.03
D-243-98 188.0-192.5	0.001			0.03
D-243-98 192.5-195.0	0.001			<0.02
D-243-98 196-200	0.001			<0.02
34452	0.131			2.62

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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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
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Santiago, Chile
Mendoza, Argentina

Company: ROSEBUD MINING CO.

Address: P.O. BOX 2610

City WINNEMUCCA State NV Zip 89446

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

Project Name: DEVELOPMENT Purchase Order Number:

Date Submitted: 7 19 98 Number of Samples: 65

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

SAMPLE IDENTIFICATION			TYPE	ELEMENTS REQUIRED	
D-243-98				AU-AG ACCORDING TO	
0.0-3.0	31.0-35.0	83.6-86.7		ROSEBUD MINE PROTOCOL	
3.0-5.0	35.0-40.0	86.7-89.0			
5.0-7.5	40.0-42.5	89.0-92.0		127.5-130.0	160.0-163.0
7.5-9.2	42.5-45.0	92.0-94.0		130.0-131.7	163.0-166.0
9.2-11.0	45.0-50.0	94.0-99.0		131.7-134.0	166.0-169.0
11.0-13.0	50.0-54.0	99.0-104.0		134.0-139.0	169.0-174.0
13.0-15.0	54.0-59.0	104.0-108.0		139.0-141.0	174.0-177.2
15.0-17.1	59.0-64.0	108.0-110.3		141.0-143.0	177.2-181.5
17.1-20.0	64.0-65.8	110.3-113.0		143.0-145.0	181.8-183.0
20.0-22.0	65.8-69.0	113.0-116.0		145.0-147.5	183.0-188.0
22.0-24.0	69.0-74.0	116.0-118.0		147.5-150.0	188.0-192.5
24.0-26.0	74.0-78.3	118.0-122.2		150.0-152.5	192.5-196.0
26.0-29.0	78.3-80.0	122.2-125.0		152.5-156.2	196.0-200.0
29.0-31.0	80.0-83.6	125.0-127.3		156.2-160.0	TV

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:

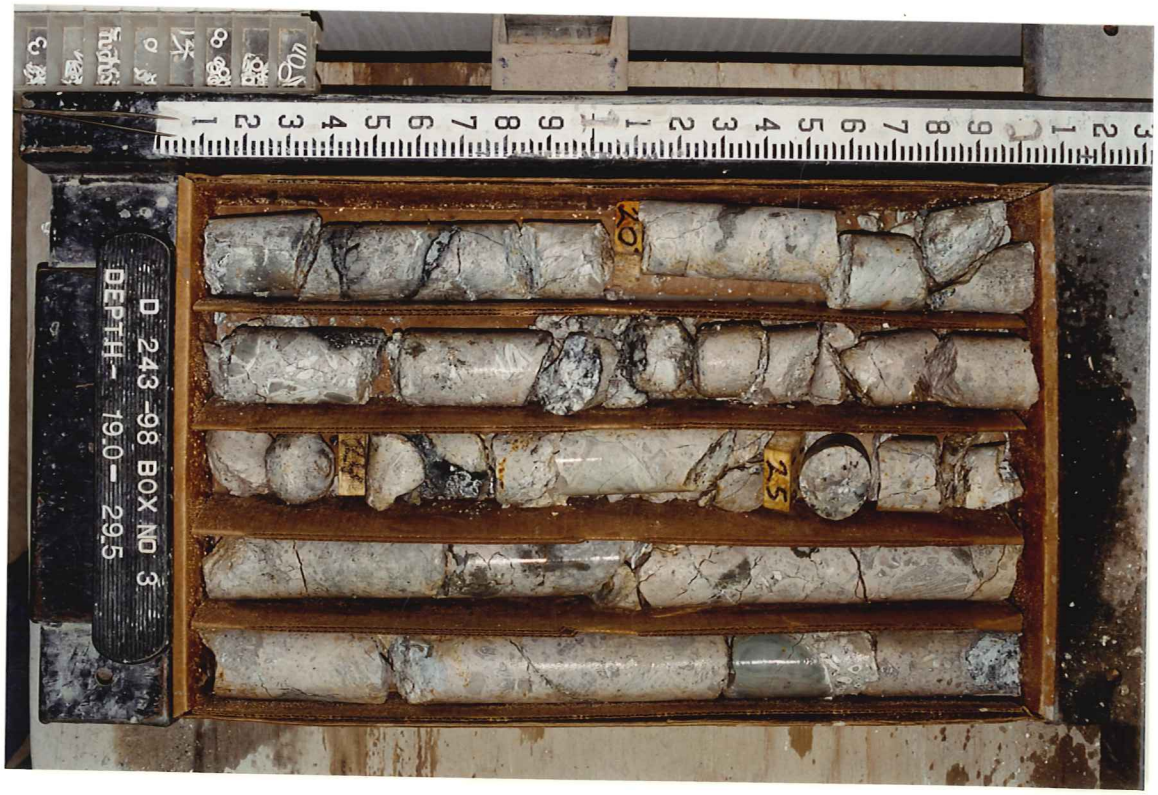
KURT ALLEN

Comments:

CLIENT FILE COPY

D 243 -98 BOX NO 2
DEPTH- 9.5- 19.0
10'
15'

D 243 -98 BOX NO1
DEPTH- 0.0- 9.5
5'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DEPTH- 19.0- 29.5
20
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45
50
D 243 -98 BOX NO 5
DEPTH- 38.5 - 50.5

D 243 -98 BOX NO 4
DEPTH- 29.5 - 38.5

54
55
D 243 -98 BOX NO 6
DEPTH- 50.5 - 60.0

D 243 -98 BOX NO 8
DEPTH- 69.5 - 70.0

D 243 -98 BOX NO 7
DEPTH- 60.0 - 69.5

D 243 -98 BOX NO 9
DEPTH- 79.0 - 89.0

D 243 -98 BOX NO 11
DEPTH - 98.5 - 108.0

D 243 -98 BOX NO 10
DEPTH - 89.0 - 98.5

D 243 -98 BOX NO 12
DEPTH - 108.0 - 117.0

D 243 -98 BOX NO 14
DEPTH - 126.0 - 135.5

D 243 -98 BOX NO 13
DEPTH - 117.0 - 126.0

D 243 -98 BOX NO 15
DEPTH - 135.5 - 144.0

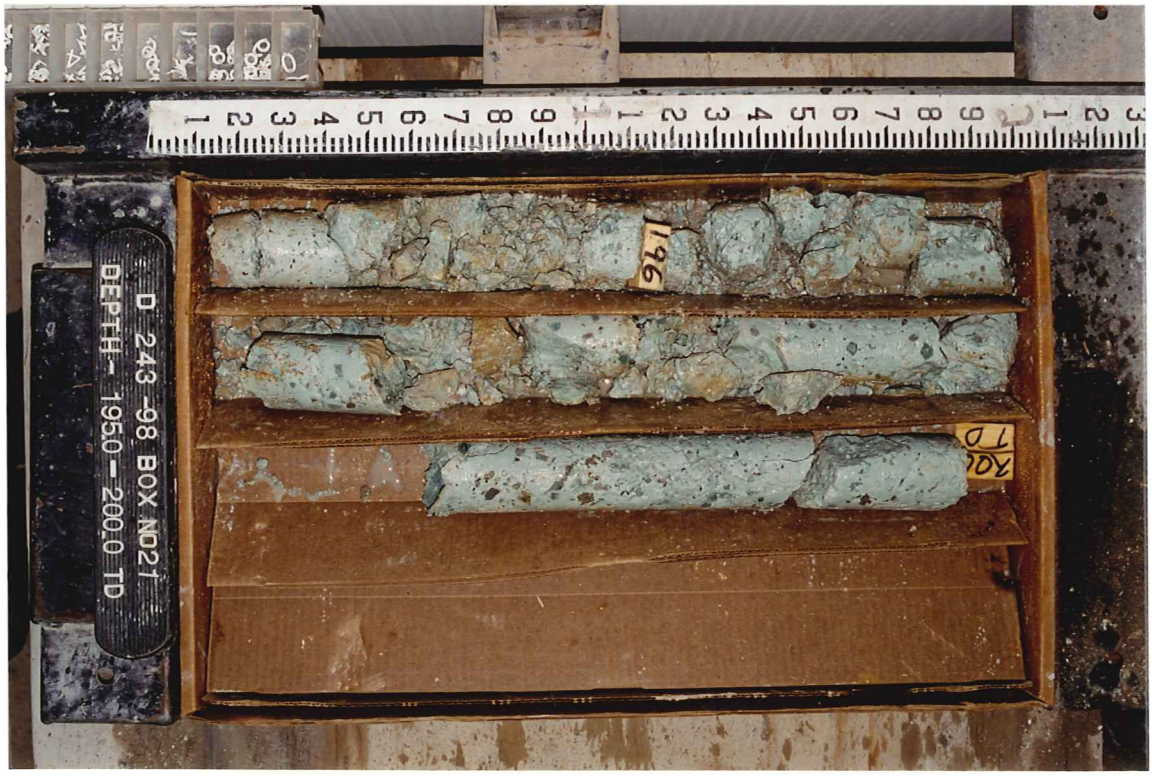
D 243 -98 BOX NO 17
DEPTH - 154.5 - 165.0
163
165
160

D 243 -98 BOX NO 16
DEPTH - 144.0 - 154.5
145
150

D 243 -98 BOX NO 18
DEPTH - 165.0 - 174.5
169
174

D 243 -98 BOX NO20
DEPTH- 185.5- 195.0
188
195.5

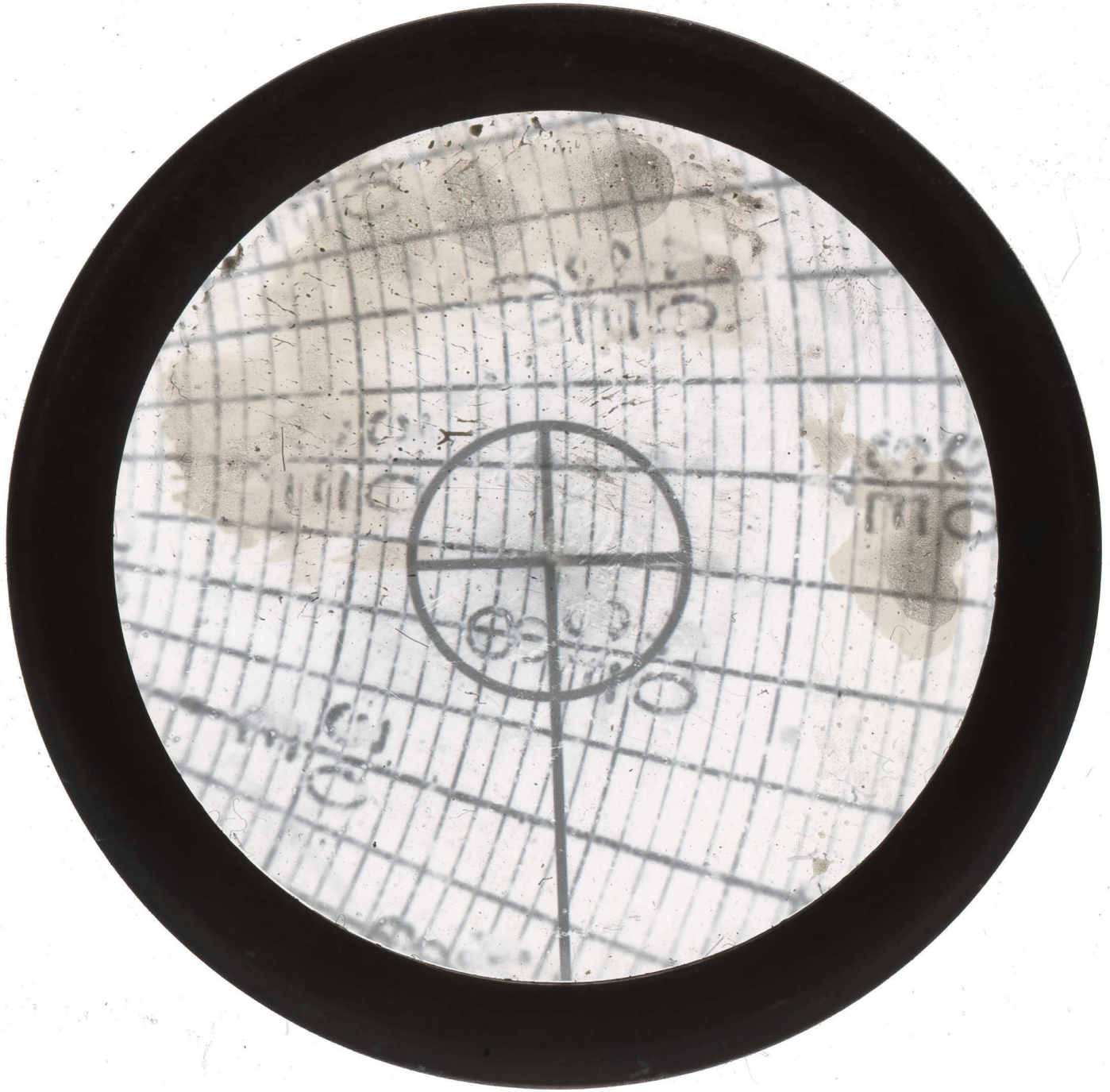
D 243 -98 BOX NO 19
DEPTH- 174.5- 185.5
183
179


D 243 -98 BOX NO21
DEPTH- 195.0- 200.0 TD
196
200
TD

SINGLE SHOT
PHOTO DISC RECORD

COMPANY Hecla
WELL NAME D-243-98
LEASE
TAKEN BY Hunter
DEPTH 200'
DATE 5-6-98
DRIFT ANGLE
DIRECTION
TYPE
JOB NO. 1

HI-1408



SINGLE SHOT
PHOTO DISC RECORD

COMPANY Hecla
WELL NAME D-243-98
LEASE
TAKEN BY Hunter
DEPTH 100'
DATE 5-6-98
DRIFT ANGLE
DIRECTION
TYPE
JOB NO. 1

HI-1408

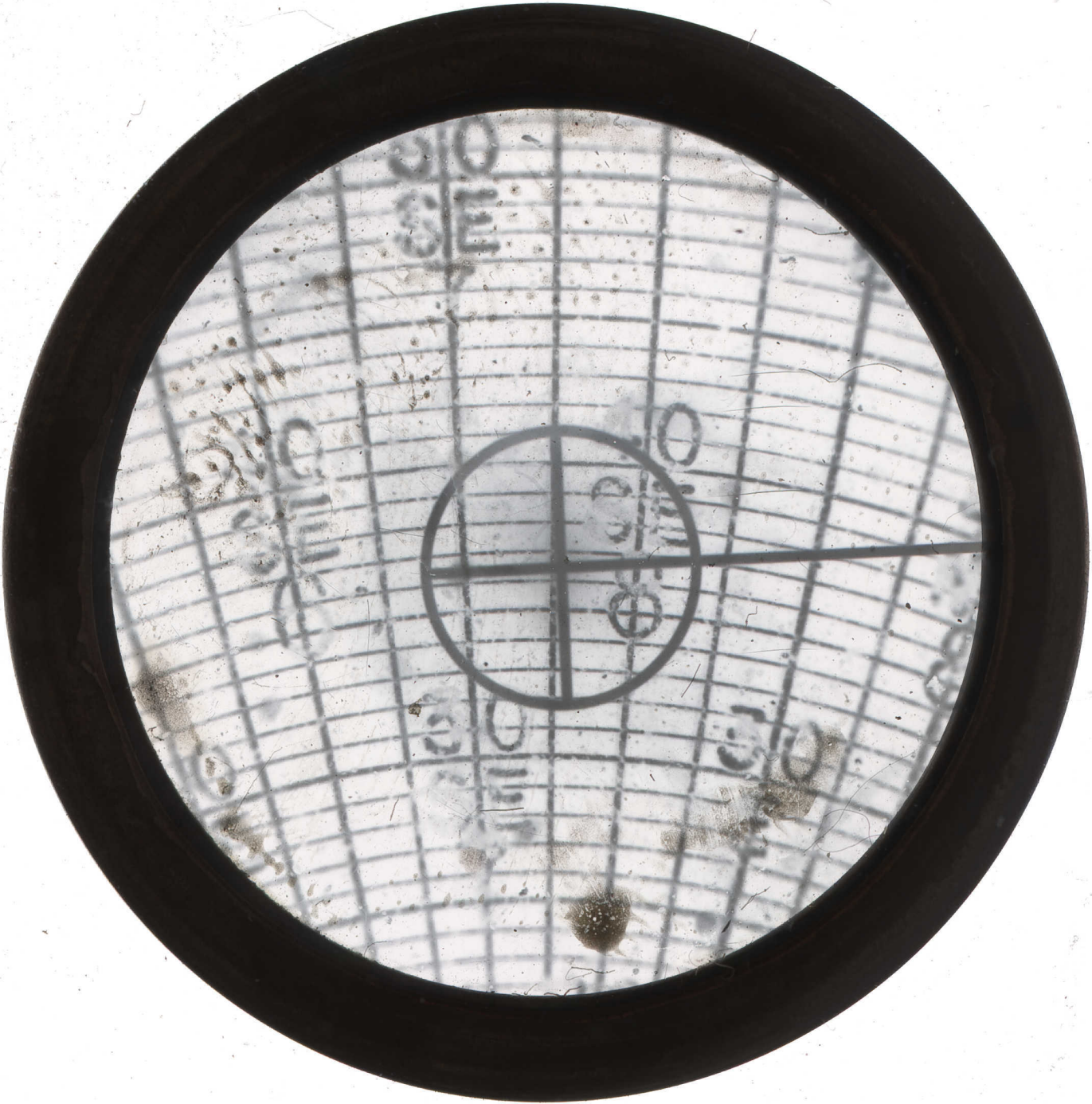


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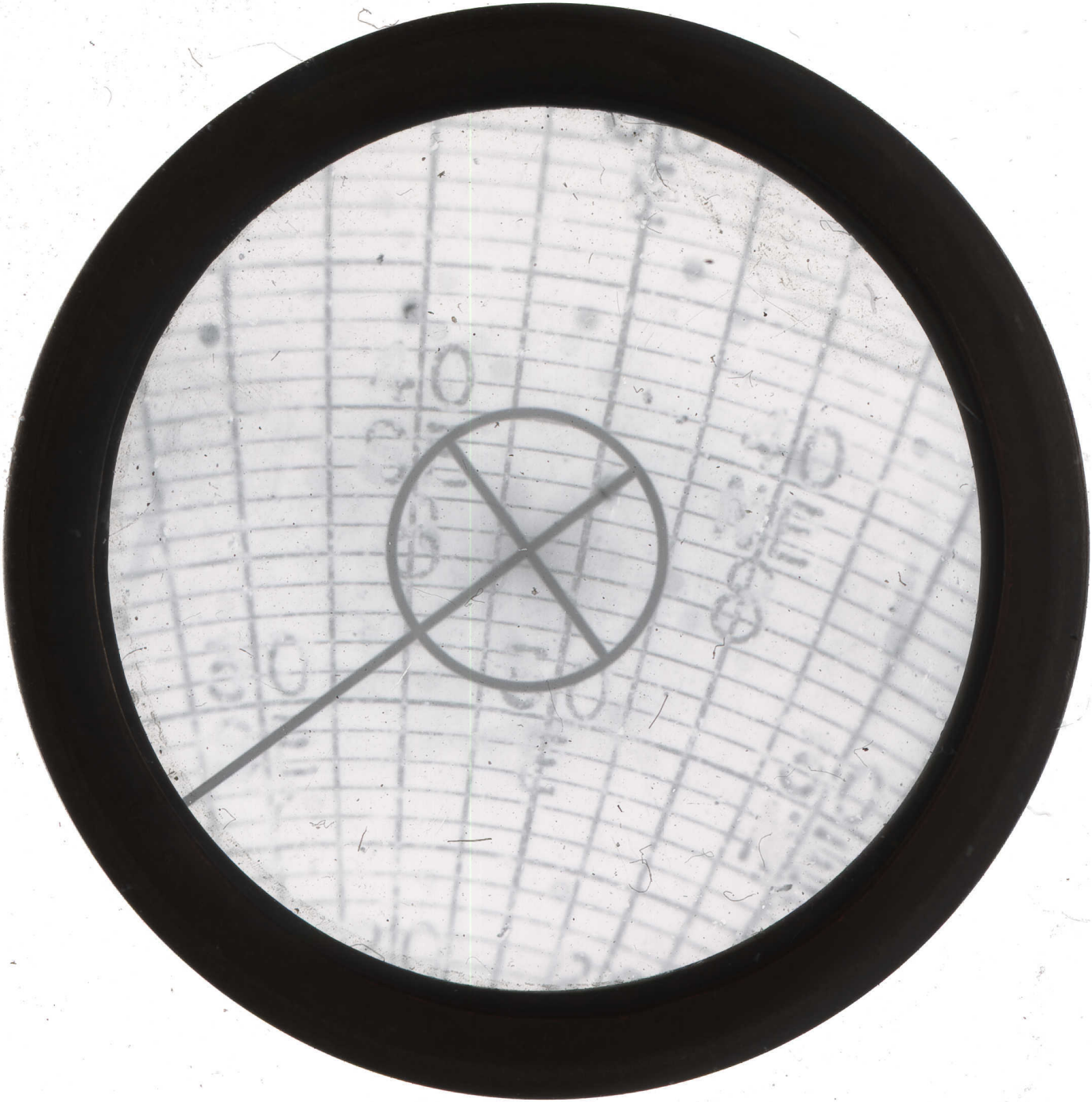
PHOTO DISC RECORD

COMPANY Hecla
WELL NAME D-243-98
LEASE
TAKEN BY Hunter
DEPTH collar
DATE 5-6-98
DRIFT ANGLE
DIRECTION
TYPE
JOB NO. 1
HI-1408