6000 6659

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-174-98
AUTHOR	K. Allen; B. Morris; S King
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, Hecla Mining Co, Rosebud Project Rosebud Mining Co., LLC
COMMODITY If not obvious	gold; silver
NOTES	drill logs; assay; geology; photographs; receipts; total depth 290'; handwritten notes down hole 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)

SS: DD 4/28/08
Initials Date
DB:
Initials Date
SCANNED:
Initials Date

Revised: 1/22/08

D-174-98

6000 0659
4010

60000659

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

Hecla
MINING COMPANY

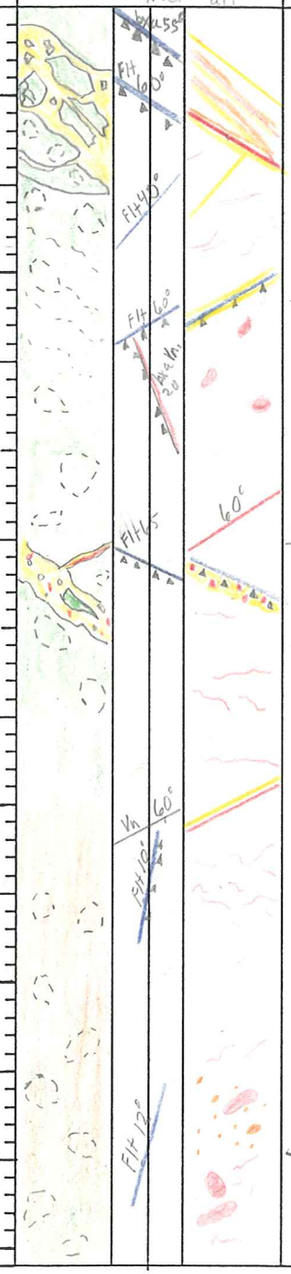
ROSEBUD PROJECT
DIAMOND DRILL LOG

HOLE NUMBER	D-174-98	LOCATION	East Zone	REMARKS	Stope 43
PAGE 1 OF 5		NORTHING			
DATE	2-13-98	EASTING			
LOGGED BY	Brian W. Morris	ELEVATION			
SCALE	1" = 10'	AZIMUTH	N54W		
TOTAL DEPTH	290'	INCLINATION	-7°		

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG (lith, strc., Alt)	STRUCTURE	ALTERATION AND MINERALIZATION
	Reduced	0-50' Dozer Tuff - Lt gray - Lt gr Fine grain, monolithic autobxa, Mtx is Ltgry - Ltgr gry Clasts are commonly or FeOx stained Clasts are subangular - Subrounded	5, 10, 15, 20, 25, 30, 35, 40, 45, 50	Vn 25°; 40° Flt; 65° Flt; Vn 55; Flt 55	0-50' Mod-str gry silicat sulf veinlets + stringers.	0-50 Mod-locally str argil, wk gr chlor? illite clay alt.
					23'-24' unhealed milled bxa; wh-ltgrygr gougy mtx w/ small <.5cm well rounded Dozer clasts	23'-24' strong argil, wk diss py.
					34.0-34.5' Rubble bxa- subrounded clast healed by gry silica, mostly mtx supported.	34'-50' Or FeOx stain of Clasts becomes wk to sporatic. 34.0-34.5' Mod leaching of SiO_2 Mtx 38.2-40.5 Strong argil w/ strong narrow (.1-.5 cm) wh clay & marc. veining. 40.5= Marc. vnlets + diss sulfs becoming stronger.

ANALYTICAL DATA						
FROM	TO	W	Au	Ag	Au2	A
0	5					
5	10					
10	15					
15	20					
20	24					
24	29					
29	34					
34	39					
39	44					
44	49					

HOLE NUMBER D-174-98 PAGE 2 OF 5

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
	Reduced	50 – 120 Dozer Tuff- Lt gray - Lt gray gr fg w/ a primary autobxa text, faint rounded- subrounded ghost of Dozer tuff clasts, wk primary shear text of mtx.	55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105, 110, 115, 120		50'-55.7' Abundant 2"-6" wide crackle bxa veins healed by silica mtx 68-68.5' Flt - silica healed crackle bxa w/ mod leaching of mtx, mod wh clay coating of vugs, subhedral barite xls in voids + vugs + bladed marc. 82.8 Crackle Bxa- Angular Dozer Clasts healed by a silic rubble-milled bxa mtx, mod leaching of mtx, vugs are strongly coated w/ wh clay. 114.4'- 115.0' 1mm thick graphitic coated slick on surface of 12° Flt.	50-55.7' Crackle bxa mtx is locally str. leached & replaced by wh clay & bladed marc. xls. 50 - Rock is mod argil 82.8'- Crackle Bxa- strong wh clay filling in vugs, strong bladed marc. diss in mtx. 94.5- 99.0' strong Lt. gray silica + marc. veins .1-1cm in width 95-105' wk-mod orbr FeOx st. 105-120' Clast ghost are wk-mod or br FeOx stained, wk-mod diss sulf patches .5cm-5cm dia, wk-mod sulf hair line vnlets. 110-115' Red br FeOx speckels + small blebs

ANALYTICAL DATA					
FROM	TO	W	Au	Ag	Au2
49	54				
54	59				
59	64				
64	69				
69	74				
74	79				
79	82.8				
82.8	85.5				
85.5	89.0				
89.0	94.0				
94.0	99.0				
99.0	104.0				
104.0	109.0				
109.0	115.0				
115.0	120.0				

HOLE NUMBER D-174-98 PAGE 3 OF 5

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
	Reduced	120-129.5' Lt grv - buff, fine grain Autobrecciated Dozer Rhyolite, wh - locally argil 129.5' → Fault Zone 129.5' - 147.5' Crackle - Rubble bxa: Subangular - Subrounded Dozer autobrecciated clasts supported by a silic Rx flour mtx, locally crackle bxa is healed by a Dozer clast milled micro bxa 161.8-164.6 Breccia Clasts are composed of gray porph andesitic mtx w/ wh feldspathic phenos - dike? Bxa Mtx is dk gray silica.	125 130 135 140 145 150 155 160 165 170 175 180 185 190	Struc Bis Flt 70° Flt 12° 40° Void 12° Flt 60° Strg 40°	120-129.5' Rock is mod Fx & healed by gry sulfidic SiO_2. 129.5-147.5' Silic Rx flour healed, auto brecciated Dozer sub-angular - subrounded clast Rubble - crackle bxa. 150.0 - 154.6' V. strong Fracturing & locally wh clay healed milled bxa 3-5" wide. 156-162 Breccia - Rubble bxa, wk argil Subangular Lt gry Dozer clasts healed by sdk gry silica Mtx, 158' grading to a crackle bxa w/ silica Mtx being replaced by wh clay. 177.5 - 184.0 Crackle bxa: Dozer Auto-brecciated clasts w/ wh Clay Mtx. 184 - 185' Dozer Clast Milled bxa healed by dk gry silic Sulf.	120-129.5' mod. concen. of gry sulfidic silica veinlets & silica healed micro bxas, locally silica Vn replaced by wh clay, wk diss py 129.5' - 147.5' silic Mtx locally is replaced by wh clay, wk-mod. fg diss pyritic sulf & hairline veinlets, sulfs are wkly Ox. 142.0-147.5' Dk gry diss sulfs increasing to mod-str in silic Mtx. 147.5' - 149.3' Strong 1-2cm wide dk gry silica veins, surround Rx mod argil. 150.0-154.6' 154.6'-156.0' V. strong argil & shearing, Rx alt to Lt gr color. 156-161.8' wk diss py, 158' wh clay replacing silica Mtx + Marc. 164.6-166.8' Rubble (Dozer clasts) Mosaic bxa w/ silic Rx Flour Mtx, Strong secondary dk gry stkwk, wk-Mod diss + veins of py/marc. 166.8 - 177.5' Rubble Bxa Lt or br - gr Subangular - Subrounded Dozer clasts healed by gry silic, locally complete gr silica replacement. LOSS 188 - 190 Rubble bxa - Subrounded Dozer clasts (1-10cm dia) w/ Rx Flour Mtx, locally str diss py + marc. in mtx, locally mod leaching of mtx.

ANALYTICAL DATA						
FROM	TO	W	Au	Ag	Au2	
120	125					
125	129.5					
129.5	135					
135	140					
140	142.2					
142.2	147.5					
147.5	150					
150.0	153.0					
153	154	LOSS				
154	156					
156	159					
159	163					
163	166					
166	170					
170	172					
172	175	LOSS				
175	179					
179	180	LOSS				
180	184					
184	187					
187	188	LOSS				

HOLE NUMBER D-174-98 PAGE 4 OF 5

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
	Reduced	196'-201' Clasts are composed of autobrecciated fg dozer. 201'-212.4' Milled bxa: ≈ 90% Volcaniclastic green Mtx Subrounded Clasts (Bud?) minor Lt ary-tan fg Dozer Clasts. Supported by a gry gr-gry silic mtx	195 200 205	Vn32°	196-201' Milled Bxa: Lt ary-wh subrounded clasts supported by (70% by vol.) dk ary silic sulfidic Mtx, bladed Marc. in vugs 201-204.2' Mt becomes gr in color w/ wk diss sulf	196- Wk leaching, bladed Marc in vugs, v. strong diss sulf in Mtx.
		LOSS			LOSS	
		208.4-211.7 ⇒ 90% silica flooded Mtx.	210	Vn 15°	201' Bxa grades into more Bud dominated clasts. Wh Mtx rubble bxa Vn ≈ 6" wide w/ gr bud clasts.	207-208.4' Mtx becomes dk gry in color, more diss sulfs, 208.4-211.7 silica flooded Mtx, wk diss sulfs, wk leaching.
		LOSS	215		LOSS	
		216.4- Grading into LBT planer?, Bud, & Dike Clast rubble bxa. LBT Planer is med. gr w/ darker small speckels & fine lamination ≈ 1-2cm apart w/ br FeOx staining along lam. Dike? is wh-Lt gry aphanitic. Mtx is dk gry gr in color & strongly silic. 230'-240' Grading into bxa clasts that contain wavey to crenulated fine brown laminations w/ a Lt. gr-wh fg mtx, 20% planer laminated clasts, wavey-crenulated clasts maybe alt text of planer clasts. 240-260 Green w/ dk green speckles ≈1" spaced fine planer laminations subangular clasts (LBT?), ≈ 10-15% wh-light gry aphanitic subangular-angular clasts	220 225 230 235 240 245 250 255 260	30° Fx 30°	216.4- leaching follows a 30° Fx set. 240' Clasts becoming more angular.	216.4- mod leaching w/ vug fillings well developed Barite & marc xls & strong white clay. Coating, Mod blk-brassy sulf blebs in bxa Mtx ± Marc 237.4' Barite fill vug w/ strong stibnite xl growth on barite xls. 240- Lt gry silica Mtx, Mod blebs of Marc in mtx, locally wk leaching w/ wh clay replacement. 248.5-249' Strong leaching of mtx w/ wh clay replacement. Strong vugs & open Fx are stibnite filled. 251.1-256.2 wh clay + stibnite replacing Mtx locally.

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2
190	193				
193	196				
196	200.7				
200.7	206.2				
206.2	207	LOSS			
207	208.5				
208.5	211.7				
211.7	212.3				
212.3	213.8				
213.8	215	LOSS			
215	220				
220	225				
225	230				
230	235				
235	240				
240	245				
245	250				
250	251.1				
251.1	252.8				
252.8	255				
255	260				

HOLE NUMBER D-174-98 PAGE 5 OF 5

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
	Reduced	260' - 273.7' Mosaic - Rubble Bxa - 90% sub-angular clasts Planer laminated, minor Lt gry gr fg Auto bxa & cuhanitic clasts, clasts supported by wh - Lt gr gry silica. 273.7' Contact w/ Rubble - Strongly milled bxa Clasts consist of subangular - rounded heterolithic Volcaniclastic, planer lam., Lt gry - wh aplanitic, fg Auto bxa. Clasts are gr w/ minor br clasts, Clasts are supported by a silic Rx Flour Mtx. 288' sharp contact. T.D. 290'	265 270 275 280 285 290	Bxa Silt	273.7' Contact w/ a rubble - Milled bxa; Clasts are subangular - rounded hetero lithic Volcaniclastic, planer laminated & aphanitic supported by silic Rx flour Mtx, v. 288-290' Green volcaniclastic subangular - sub-rounded Clasts (Bad?), wk argil, wk sulf. blebs	260-273.7' Minor dk - brassy vell br sulf blebs in Mtx, wk localized leaching, minor bladed Marc xls diss in silica Mtx 273.7-288' Wk sulfidic blebs, mod Chlor alt of Clasts. 284-286' strong clayey Mtx 285' 1" wide black graphitic sticks w/ fine sulfidic coating on sticks 286.-288' str silic gry Mtx

ANALYTICAL DATA					
FROM	TO	W	Au	Ag	Au2
260	265				
265	270				
270	275				
275	280				
280	284				
284	286				
286	288				
288	290				

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # P-174-98 DATE 2-12-98 LOGGED BY: Brian W. Morris 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	5	96	96	83										
5	10	100	100	96										
10	15	100	100	50										
15	20	96	96	88										
20	24	93	93	59										
24	29	92	92	65										
29	34	100	100	38										
34	39	90	90	53										
39	44	96	96	81										
44	49	92	92	89										
49	54	92	92	61										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-174-98 DATE 2-12-98 LOGGED BY: B. W. M. 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)
54	59	88	88	75										
59	64	92	92	57										
64	69	96	96	67										
69	74	100	100	58										
74	79	84	84	76										
79	84	96	96	64										
84	89	100	100	70										
89	94	94	94	61										
94	99	76	76	57										
99	104	94	94	85										
104	109	94	94	87										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-174-98 DATE 2-13-98 LOGGED BY: BWM 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)
109	110	150	150	66										
110	115	100	100	78										
115	120	100	100	76										
120	123	93	93	86										
123	125	100	100	0										
125	130	100	100	94										
130	135	96	96	83										
135	140	94	94	85										
140	145	92	92	52										
145	150	72	72	0										
150	154	70	70	29										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-174-98 DATE 2-14-98 LOGGED BY: B.W.M. 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)
154	163	92	92	48										
163	170	84	84	61										
170	175	36	40	0										
175	180	70	80	55										
180	184	80	80	46										
184	188	75	75	26										
188	193	84	84	97										
193	195	80	80	61										
195	200	88	88	39										
200	205	74	74	64										
205	207	60	60	0										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-174-98 DATE 2-14-98 LOGGED BY: B.W.M. 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	210	90	90	59										
210	215	70	70	30										
215	220	100	100	80										
220	225	96	96	75										
225	230	86	86	65										
230	235	100	100	90										
235	240	88	88	95										
240	245	94	94	83										
245	250	94	94	87										
250	255	86	86	54										
255	260	94	94	81										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-174-98 DATE 2-16-98 LOGGED BY: B.W.M. 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)
260	265	94	94	94										
265	270	100	100	92										
270	275	94	94	94										
275	280	92	92	93										
280	285	94	94	94										
285	290	96	96	71										

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SF048195

PO BOX 11549
RENO NV, USA
Ph.(702) 356-0505, Fax.(702) 356-1413

HECLA MINING COMPANY

COPIES TO : KURT ALLEN
:
:
:

CLIENT REFERENCE No: D-174-98 RECEIVED : 25 FEB 1998

No. SAMPLES : 70 REPORTED : 6 MAR 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.

03/06/1998 12:43 7023561413 AMERICAN ASSAY LABS PAGE 01
7023561413

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP048195

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-174-98

REPORTED : 6 MAR 1998

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
D-174-98 00-05	0.007			0.04
D-174-98 05-10	0.002			<0.02
D-174-98 10-15	0.007			0.03
D-174-98 15-20	0.018			0.04
D-174-98 20-24	0.037	0.037		0.07
D-174-98 24-29	0.009			0.05
D-174-98 29-34	0.005			0.03
D-174-98 34-39	0.022			0.06
D-174-98 39-44 5'	0.311		0.337	0.30
D-174-98 44-49	0.031			0.06
D-174-98 49-54	0.073		0.076	0.10
D-174-98 54-59 5'	0.170		0.211	0.09
D-174-98 59-64	0.047	0.039		0.07
D-174-98 64-69	0.061		0.069	0.04
D-174-98 69-74	0.080		0.095	0.18
D-174-98 74-79	0.085		0.059	0.06
D-174-98 79.0-82.8 3.8'	0.148		0.150	0.10
D-174-98 82.8-85.5	0.109		0.131	0.11
D-174-98 85.5-89.0	0.039			0.08
D-174-98 89-94	0.046			0.05
D-174-98 94-99	0.035			0.08
D-174-98 99-104	0.037			0.07
D-174-98 104-109	0.026			0.04
D-174-98 109-115	0.100			0.05
D-174-98 115-120	0.032			0.06

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP048195

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-174-98

REPORTED : 6 MAR 1998

SAMPLES		AU(OZ)	AU(RZ)	AUGRAV	AG(OZ)	
D-174-98 120-125		0.018			0.07	
D-174-98 125.0-129.5		0.055		0.048	0.07	
D-174-98 129.5-135.0		0.077		0.075	0.13	135-142.2' = 7.2' @
D-174-98 135-140	5	0.250		0.234	0.24	0.236 Ag
D-174-98 140.0-142.2	2.2	0.203		0.168	0.17	0.22 Ag
D-174-98 142.2-147.5		0.094		0.083	0.08	
D-174-98 147.5-150.0		0.110		0.101	0.10	
D-174-98 150-153	3	0.184		0.150	0.35	
D-174-98 154-156		0.018			0.09	
D-174-98 156-159		0.095		0.107	0.11	
D-174-98 159-163		0.033			0.05	
D-174-98 163-166		0.140		0.138	0.18	24
D-174-98 166-170		0.039			0.99	175-208.5'
D-174-98 170-172		0.066		0.077	0.04	33.5' @
D-174-98 175-179	4	0.150		0.140	0.14	
D-174-98 180-184	4	0.310		0.273	0.51	0.252
D-174-98 184-187	3	0.222		0.245	0.12	0.30 Ag
D-174-98 190-193	3	0.543		0.500	0.73	
D-174-98 193-196	3	0.230		0.240	0.38	
D-174-98 196.0-200.7		DTF			0.63	
D-174-98 200.7-206.2	5.5	0.157		0.185	0.07	
D-174-98 207.0-208.5	1.5	0.234		0.238	0.40	
D-174-98 208.5-211.7		0.033			0.06	
D-174-98 211.7-212.3		0.010			0.04	
D-174-98 212.3-213.8		0.015			0.06	

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP0481195

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-174-98

REPORTED : 6 MAR 1998

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
D-174-98 215-220	0.005			0.06
D-174-98 220-225	0.004			0.08
D-174-98 225-230	0.008			0.10
D-174-98 230-235	0.008			0.06
D-174-98 235-240	0.003	0.004		0.10
D-174-98 240-245	0.005			0.54
D-174-98 245-250	0.006			1.23
D-174-98 250.0-251.1	0.008			0.14
D-174-98 251.1-252.8	0.009			1.75
D-174-98 252.8-255.0	0.010			0.25
D-174-98 255-260	0.010			0.34
D-174-98 260-265	0.004			0.16
D-174-98 266-270	0.016	0.016		0.58
D-174-98 270-275	0.007			0.56
D-174-98 275-280	0.006			0.10
D-174-98 280-284	0.003			0.28
D-174-98 284-286	0.006			0.17
D-174-98 286-288	0.005			0.07
D-174-98 288-290	0.005			0.11
26973	0.124			2.55

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
Fax
(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 Co. LLT

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: 02/24/98 Number of Samples: 70

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

D-174-98 SAMPLE IDENTIFICATION			TYPE	ELEMENTS REQUIRED		
0-5.0	74-79		CORE	Ag-Au ROSEBUD MINE		
5.0-10.0	79-82.8	142.2-147.5		PROTOCOL		
10.0-15.0	82.8-85.5	147.5-150				
15.0-20.0	85.5-89.0	150-153		184-187	213.8-215	260-265
20.0-24	89.0-94.0	[illegible]		[illegible]	215-220	265-270
24-29	94.0-99.0	154-156		188-190	220-225	270-275
29-34	99.0-104.0	156-159		190-193	225-230	275-280
34-39	104.0-109.0	159-163		193-196	230-235	280-284
39-44	109.0-115.0	163-166		196-200.7	235-240	284-286
44-49	115.0-120.0	166-170		200.7-206.2	240-245	286-288
49-54	120.0-125.0	170-172		[illegible]	245-250	288-290
54-59	125.0-129.5	172-175		207-208.5	250-251.1	
59-64	129.5-135.0	175-179		208.5-211.7	251.1-252.8	
64-69	135.0-140	[illegible]		211.7-212.3	252.8-255	
69-74	140-142.2	180-184		212.3-213.8	255-260	

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 SP048195

PO BOX 11550
RENO NV, USA
Ph.(702) 356-0606, Fax.(702) 356-1413

HECLA MINING COMPANY

COPIES TO : KURT ALLEN

:

:

:

CLIENT REFERENCE No: D-174-98 RECEIVED : 25 FEB 1998

No. SAMPLES : 70 REPORTED : 9 MAR 1998

MAIN SAMPLE TYPE : DRILL CORE

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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

PROVISIONAL REPORT SP048195

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-174-98

REPORTED : 9 MAR 1998

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
D-174-98 00-05	0.007			0.04
D-174-98 05-10	0.002			<0.02
D-174-98 10-15	0.007			0.03
D-174-98 15-20	0.018			0.04
D-174-98 20-24	0.037	0.037		0.07
D-174-98 24-29	0.009			0.05
D-174-98 29-34	0.005			0.03
D-174-98 34-39	0.022			0.06
D-174-98 39-44	0.311		0.337	0.30
D-174-98 44-49	0.031			0.06
D-174-98 49-54	0.073		0.076	0.10
D-174-98 54-59	0.170		0.211	0.09
D-174-98 59-64	0.047	0.039		0.07
D-174-98 64-69	0.061		0.069	0.04
D-174-98 69-74	0.080		0.095	0.18
D-174-98 74-79	0.085		0.059	0.06
D-174-98 79.0-82.8	0.148		0.150	0.10
D-174-98 82.8-85.5	0.109	0.111	0.131	0.11
D-174-98 85.5-89.0	0.039			0.08
D-174-98 89-94	0.046			0.05
D-174-98 94-99	0.035			0.08
D-174-98 99-104	0.037			0.07
D-174-98 104-109	0.026			0.04
D-174-98 109-115	0.100			0.05
D-174-98 115-120	0.032			0.06

AMERICAN ASSAY LABORATORIES

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CLIENT : HECLA MINING COMPANY
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REFERENCE : D-174-98

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SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)	
D-174-98 120-125	0.018			0.07	
D-174-98 125.0-129.5	0.055		0.048	0.07	
D-174-98 129.5-135.0	0.077		0.075	0.13	
D-174-98 135-140	0.250		0.234	0.24	
D-174-98 140.0-142.2	0.203	0.189	0.168	0.17	
D-174-98 142.2-147.5	0.094		0.083	0.08	
D-174-98 147.5-150.0	0.110		0.101	0.10	
D-174-98 150-153	0.184	0.167	0.150	0.35	
D-174-98 154-156	0.018			0.09	
D-174-98 156-159	0.095		0.107	0.11	
D-174-98 159-163	0.033			0.05	
D-174-98 163-166	0.140		0.138	0.18	28.7
D-174-98 166-170	0.039			0.09	175-208.5'
D-174-98 170-172	0.066		0.077	0.04	33.5' @
D-174-98 175-179 4	0.150		0.140	0.14	
1 D-174-98 180-184 4	0.310		0.273	0.51	
D-174-98 184-187 3	0.222		0.245	0.12	0.244 Ag
3 D-174-98 190-193 3	0.543		0.500	0.73	0.36 Ag
D-174-98 193-196 3	0.230		0.240	0.38	
D-174-98 196.0-200.7 4.7	0.204		0.285	0.63	
D-174-98 200.7-206.2 5.5	0.157		0.185	0.07	
.8 D-174-98 207.0-208.5 1.5	0.234		0.238	0.20	
D-174-98 208.5-211.7	0.033			0.06	
D-174-98 211.7-212.3	0.010			0.04	
D-174-98 212.3-213.8	0.015			0.06	

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP0481195

CLIENT : RECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-174-98

REPORTED : 9 MAR 1998

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
D-174-98 215-220	0.005			0.95
D-174-98 220-225	0.004			0.08
D-174-98 225-230	0.008			0.10
D-174-98 230-235	0.008			0.06
D-174-98 235-240	0.003	0.004		0.10
D-174-98 240-245	0.005			0.54
D-174-98 245-250	0.006			1.23
D-174-98 250.0-251.1	0.008			0.14
D-174-98 251.1-252.8	0.009			1.75
D-174-98 252.8-255.0	0.010			0.25
D-174-98 255-260	0.010			0.34
D-174-98 260-265	0.004			0.15
D-174-98 265-270	0.016	0.016		0.58
D-174-98 270-275	0.007			0.56
D-174-98 275-280	0.006			0.19
D-174-98 280-284	0.003			0.28
D-174-98 284-286	0.006			0.17
D-174-98 286-288	0.005			0.07
D-174-98 288-290	0.005			0.11
26973	0.124			2.55

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

(702) 356-0606

INVOICE NO: SP 0048195-IN
INVOICE DATE: 03/09/98

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-174-98	DEVELOPMENT	NET 30 - DUE IN U.S. DOLLARS

QUANTITY	DESCRIPTION	PRICE	AMOUNT
70	SAMPLES RECEIVED	.00	.00
69	DRYING	1.00	69.00
69	JAW CRUSHING CHARGE	1.30	89.70
69	COARSE MILLING CHARGE	4.50	310.50
69	SPLITTING CHARGE	2.40	165.60
69	RING MILLING CHARGE	2.00	138.00
70	Au (1 A.T. FIRE ASSAY)	8.00	560.00
26	Au ANALYSES/GRAVIMETRIC	8.75	227.50
70	HYDROCHLORIC/NITRIC DIGESTION	2.00	140.00
70	Ag ANALYSES	1.00	70.00
1	Ag (ore grade) ANALYSES	5.00	5.00

86-5110-477

NET INVOICE:	1,775.30
LESS DISCOUNT:	355.06
FREIGHT:	.00
INVOICE TOTAL:	1,420.24

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ANALYSIS REPORT SP048195

American Assay Laboratories

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

HECLA MINING COMPANY

COPIES TO : KURT ALLEN
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CLIENT REFERENCE No: D-174-98 RECEIVED : 25 FEB 1998

No. SAMPLES : 70 REPORTED : 9 MAR 1998

MAIN SAMPLE TYPE : DRILL CORE

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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 SP048195

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-174-98

REPORTED : 9 MAR 1998

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D-174-98 00-05	0.007			0.04
D-174-98 05-10	0.002			<0.02
D-174-98 10-15	0.007			0.03
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D-174-98 20-24	0.037	0.037		0.07
D-174-98 24-29	0.009			0.05
D-174-98 29-34	0.005			0.03
D-174-98 34-39	0.022			0.06
D-174-98 39-44	0.311		0.337	0.30
D-174-98 44-49	0.031			0.06
D-174-98 49-54	0.073		0.076	0.10
D-174-98 54-59	0.170		0.211	0.09
D-174-98 59-64	0.047	0.039		0.07
D-174-98 64-69	0.061		0.069	0.04
D-174-98 69-74	0.080		0.095	0.18
D-174-98 74-79	0.085		0.059	0.06
D-174-98 79.0-82.8	0.148		0.150	0.10
D-174-98 82.8-85.5	0.109	0.111	0.131	0.11
D-174-98 85.5-89.0	0.039			0.08
D-174-98 89-94	0.046			0.05
D-174-98 94-99	0.035			0.08
D-174-98 99-104	0.037			0.07
D-174-98 104-109	0.026			0.04
D-174-98 109-115	0.100			0.05
D-174-98 115-120	0.032			0.06

AMERICAN ASSAY LABORATORIES

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D-174-98 129.5-135.0	0.077		0.075	0.13
D-174-98 135-140	0.250		0.234	0.24
D-174-98 140.0-142.2	0.203	0.189	0.168	0.17
D-174-98 142.2-147.5	0.094		0.083	0.08
D-174-98 147.5-150.0	0.110		0.101	0.10
D-174-98 150-153	0.184	0.167	0.150	0.35
D-174-98 154-156	0.018			0.09
D-174-98 156-159	0.095		0.107	0.11
D-174-98 159-163	0.033			0.05
D-174-98 163-166	0.140		0.138	0.18
D-174-98 166-170	0.039			0.09
D-174-98 170-172	0.066		0.077	0.04
D-174-98 175-179	0.150		0.140	0.14
D-174-98 180-184	0.310		0.273	0.51
D-174-98 184-187	0.222		0.245	0.12
D-174-98 190-193	0.543		0.500	0.73
D-174-98 193-196	0.230		0.240	0.38
D-174-98 196.0-200.7	0.204		0.285	0.63
D-174-98 200.7-206.2	0.157		0.185	0.07
D-174-98 207.0-208.5	0.234		0.238	0.40
D-174-98 208.5-211.7	0.033			0.06
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D-174-98 215-220	0.005			0.06
D-174-98 220-225	0.004			0.08
D-174-98 225-230	0.008			0.10
D-174-98 230-235	0.008			0.06
D-174-98 235-240	0.003	0.004		0.10
D-174-98 240-245	0.005			0.54
D-174-98 245-250	0.006			1.23
D-174-98 250.0-251.1	0.008			0.14
D-174-98 251.1-252.8	0.009			1.75
D-174-98 252.8-255.0	0.010			0.25
D-174-98 255-260	0.010			0.34
D-174-98 260-265	0.004			0.16
D-174-98 265-270	0.016	0.016		0.58
D-174-98 270-275	0.007			0.56
D-174-98 275-280	0.006			0.10
D-174-98 280-284	0.003			0.28
D-174-98 284-286	0.006			0.17
D-174-98 286-288	0.005			0.07
D-174-98 288-290	0.005			0.11
26973	0.124			2.55

xAMERICAN ASSAY LABORATORIES

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D-174-98 29-34	0.005			0.03
D-174-98 34-39	0.022			0.06
D-174-98 39-44	0.311		0.337	0.30
D-174-98 44-49	0.031			0.06
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AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP048195

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D-174-98 147.5-150.0	0.110		0.101	0.10
D-174-98 150-153	0.184	0.167	0.150	0.35
D-174-98 154-156	0.018			0.09
D-174-98 156-159	0.095		0.107	0.11
D-174-98 159-163	0.033			0.05
D-174-98 163-166	0.140		0.138	0.18
D-174-98 166-170	0.039			0.09
D-174-98 170-172	0.066		0.077	0.04
D-174-98 175-179	0.150		0.140	0.14
D-174-98 180-184	0.310		0.273	0.51
D-174-98 184-187	0.222		0.245	0.12
D-174-98 190-193	0.543		0.500	0.73
D-174-98 193-196	0.230		0.240	0.38
D-174-98 196.0-200.7	0.204		0.285	0.63
D-174-98 200.7-206.2	0.157		0.185	0.07
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D-174-98 208.5-211.7	0.033			0.06
D-174-98 211.7-212.3	0.010			0.04
D-174-98 212.3-213.8	0.015			0.06

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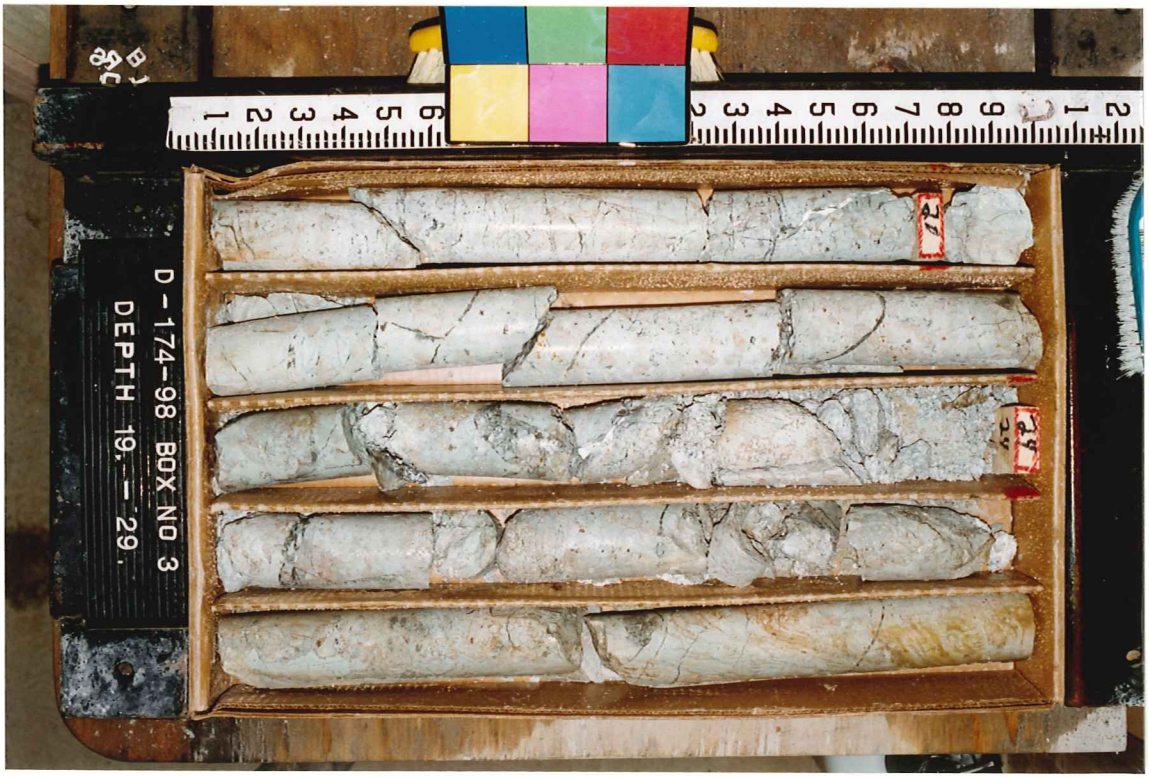
D-174-98 230-235	0.008			0.06
D-174-98 235-240	0.003	0.004		0.10
D-174-98 240-245	0.005			0.54
D-174-98 245-250	0.006			1.23
D-174-98 250.0-251.1	0.008			0.14
D-174-98 251.1-252.8	0.009			1.75
D-174-98 252.8-255.0	0.010			0.25
D-174-98 255-260	0.010			0.34
D-174-98 260-265	0.004			0.16
D-174-98 265-270	0.016	0.016		0.58
D-174-98 270-275	0.007			0.56
D-174-98 275-280	0.006			0.10
D-174-98 280-284	0.003			0.28
D-174-98 284-286	0.006			0.17
D-174-98 286-288	0.005			0.07
D-174-98 288-290	0.005			0.11
26973	0.124			2.55

Downhole Survey Magnetic Dec. 15.7

Drillhole #	Film Footage	Bearing	Dip	True Bearing	True Dip
D-174-98	Collar	S 69.5 E	98	N 53.8	-8°
	185'	S 70.0 E	98°	N 54.3 W	-8°
	290'	S 70.5E	98°	N54.8W	-8°

D-174-98 BOX NO 2
DEPTH 9.5 - 19.

Start
D-174-98 BOX NO 1
DEPTH 0.0 - 9.5


D-174-98 BOX NO 3
DEPTH 19. - 29.

D-174-98 BOX NO 5
DEPTH 37.5 - 46.

D-174-98 BOX NO 4
DEPTH 29. - 37.5

D-174-98 BOX NO 6
DEPTH 46. - 55.5

D-174-98 BOX NO 8
DEPTH 65. - 74.

D-174-98 BOX NO 7
DEPTH 55.5 - 65.

D-174-98 BOX NO 9
DEPTH 74. - 83.5

D-174-98 BOX NO 11
DEPTH 93. - 103.

D-174-98 BOX NO 10
DEPTH 83.5 - 93.

D-174-98 BOX NO 12
DEPTH 103. - 112.

D-174-98 BOX NO 14
DEPTH 121.5 -130.5

D-174-98 BOX NO 13
DEPTH 112. - 121.5

D-174-98 BOX NO 15
DEPTH 130.5 -140.

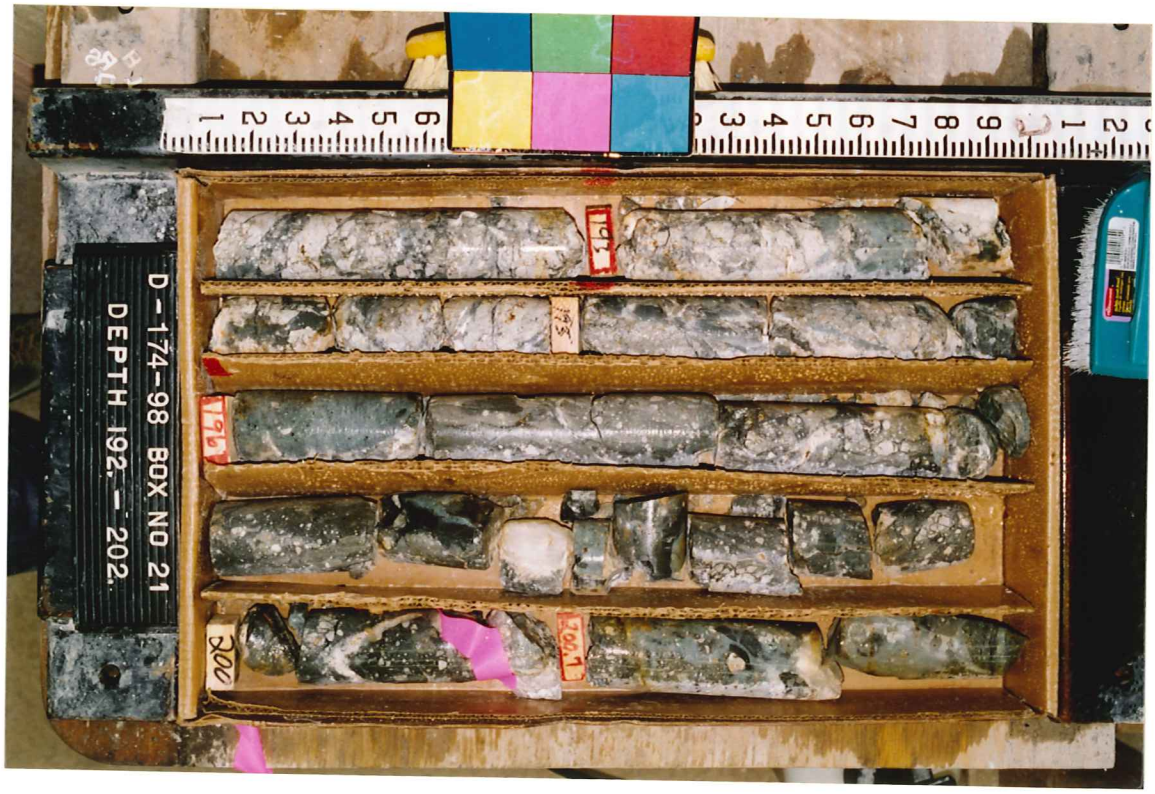
156.0
154
LOSS
153
157
150
D-174-98 BOX NO 17
DEPTH 150. -160.5

145
142.2
147.5
D-174-98 BOX NO 16
DEPTH 140. -150.

165
164
D-174-98 BOX NO 18
DEPTH 160.5 -169.5

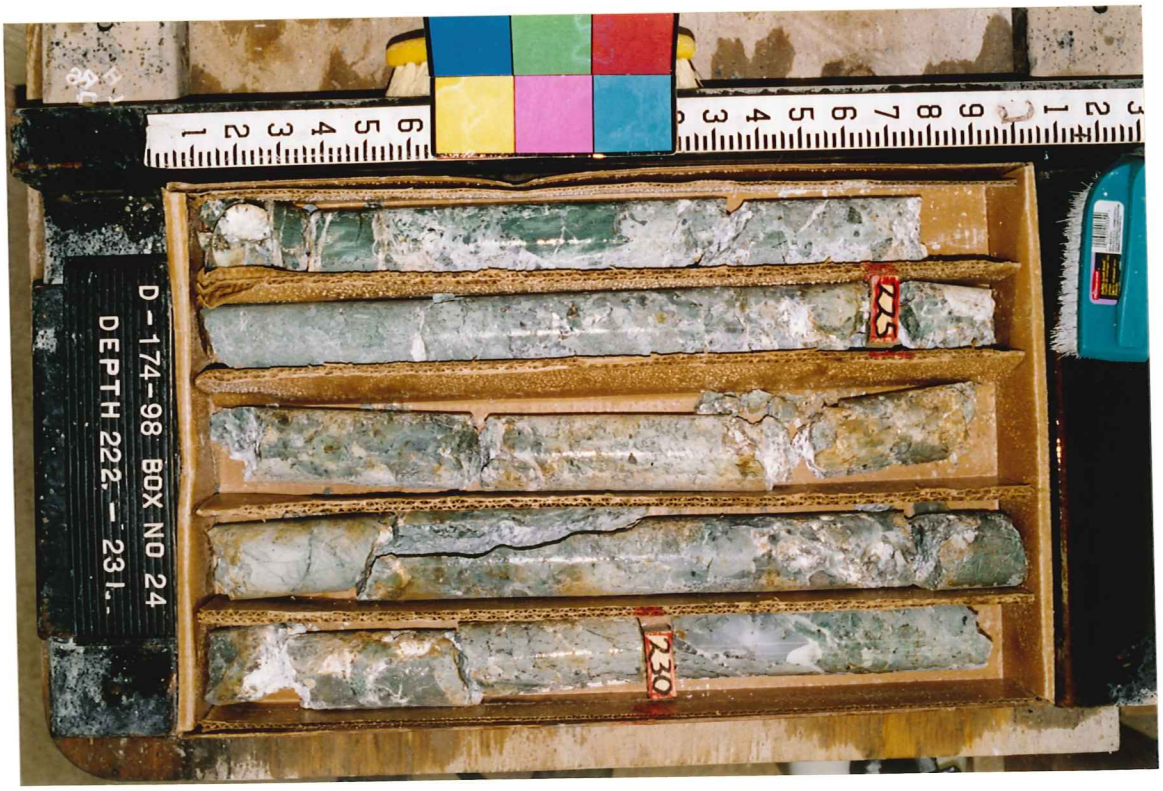
D-174-98 BOX NO 20
DEPTH 181.5-192.
188
LOSS
187
184

D-174-98 BOX NO 19
DEPTH 169.5-181.5
180
LOSS
179
175
LOSS
172
170


D-174-98 BOX NO 21
DEPTH 192.-202.
192
193
196
200.1
202

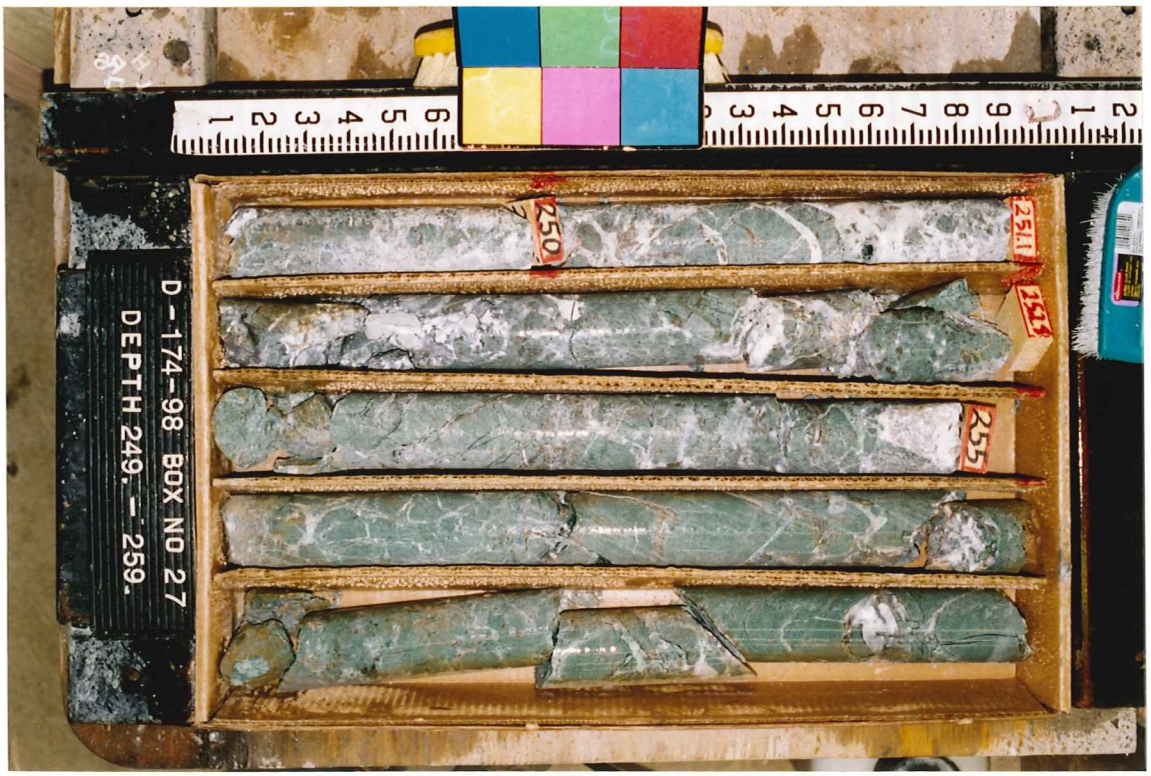
D-174-98 BOX NO 23
DEPTH 212. - 222.
215
LOSS
218
220

D-174-98 BOX NO 22
DEPTH 202. - 212.
207
LOSS
210
20

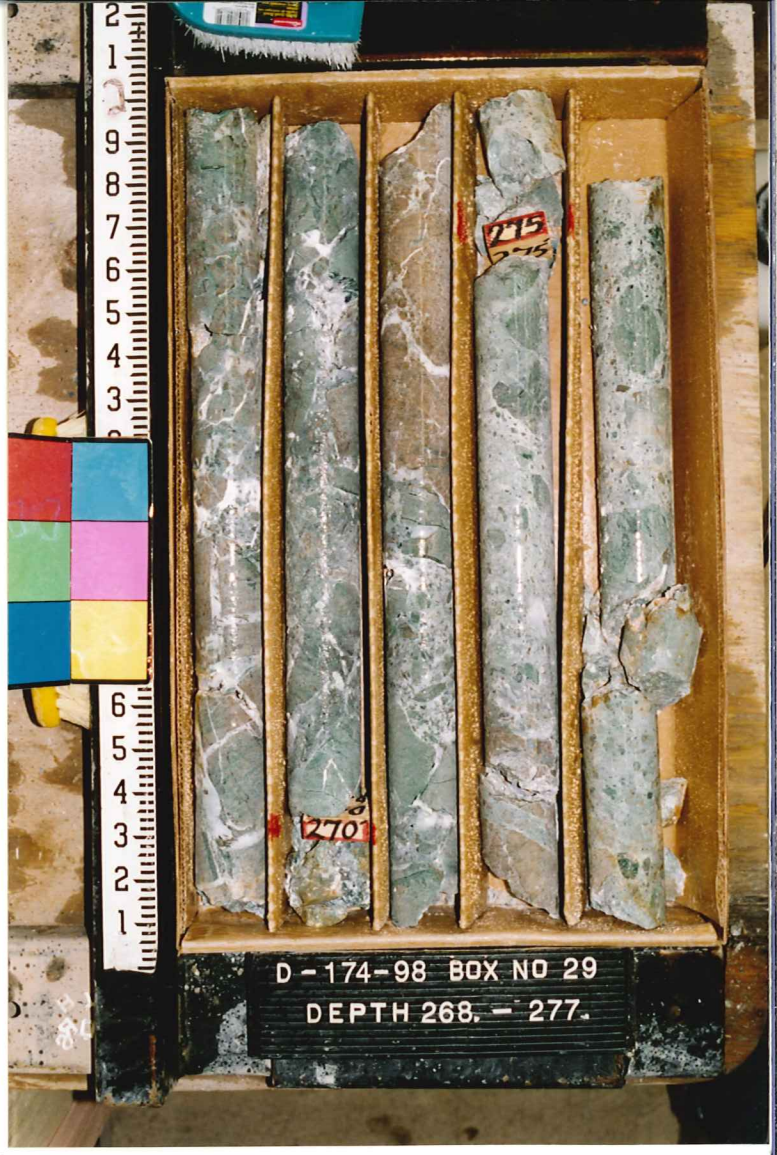

D-174-98 BOX NO 24
DEPTH 222. - 231.
225
230

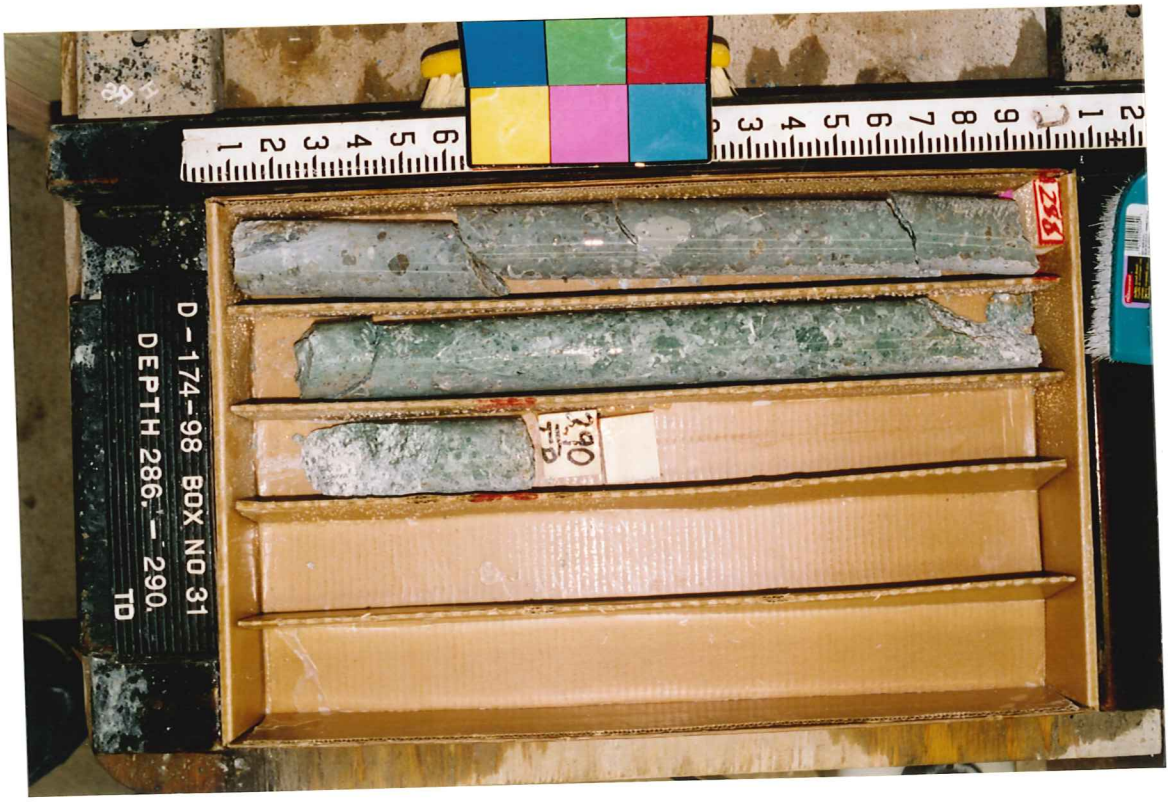
245
D-174-98 BOX NO 26
DEPTH 240. - 249.

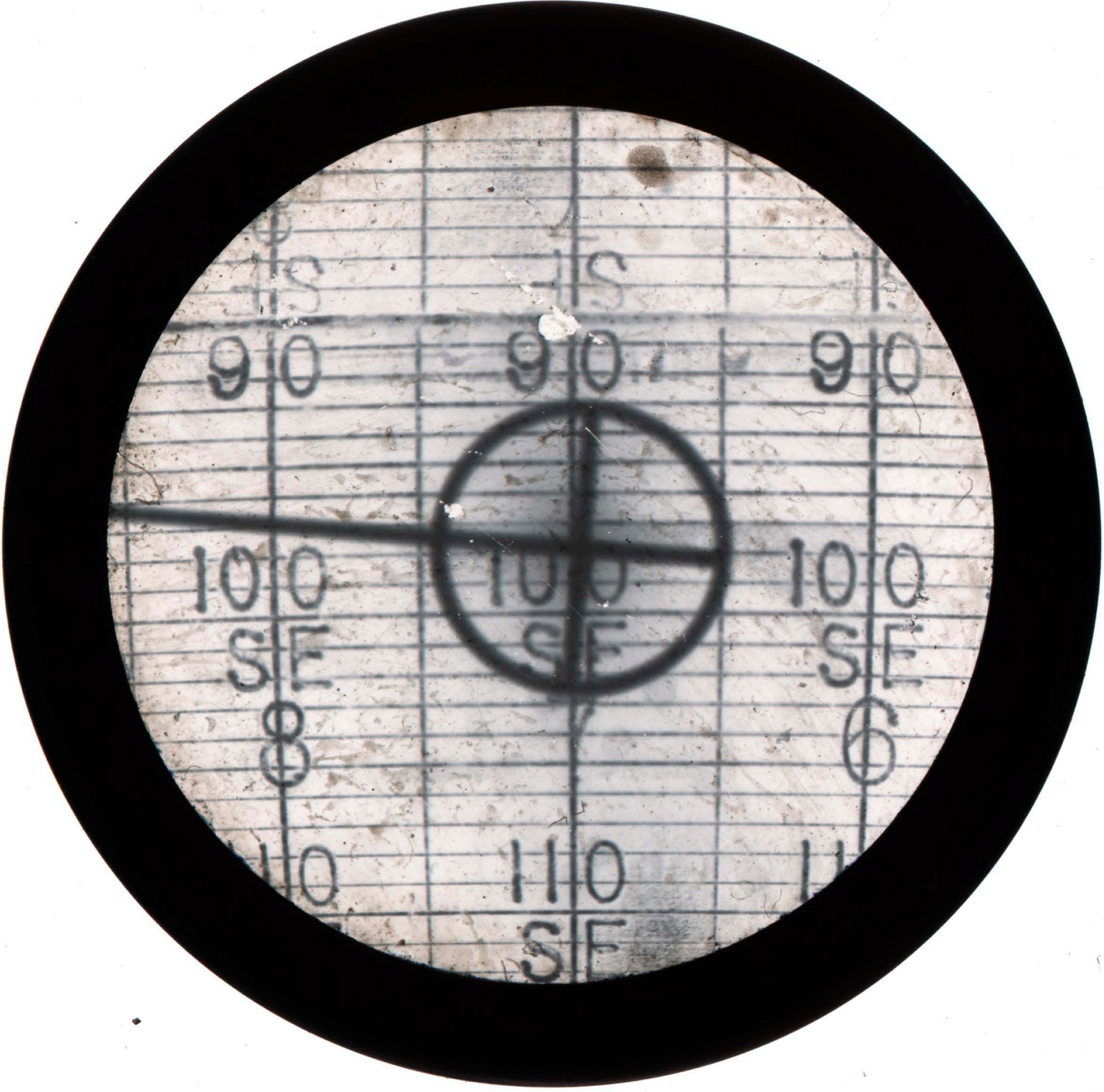
240
LST?
245
D-174-98 BOX NO 25
DEPTH 231. - 240.

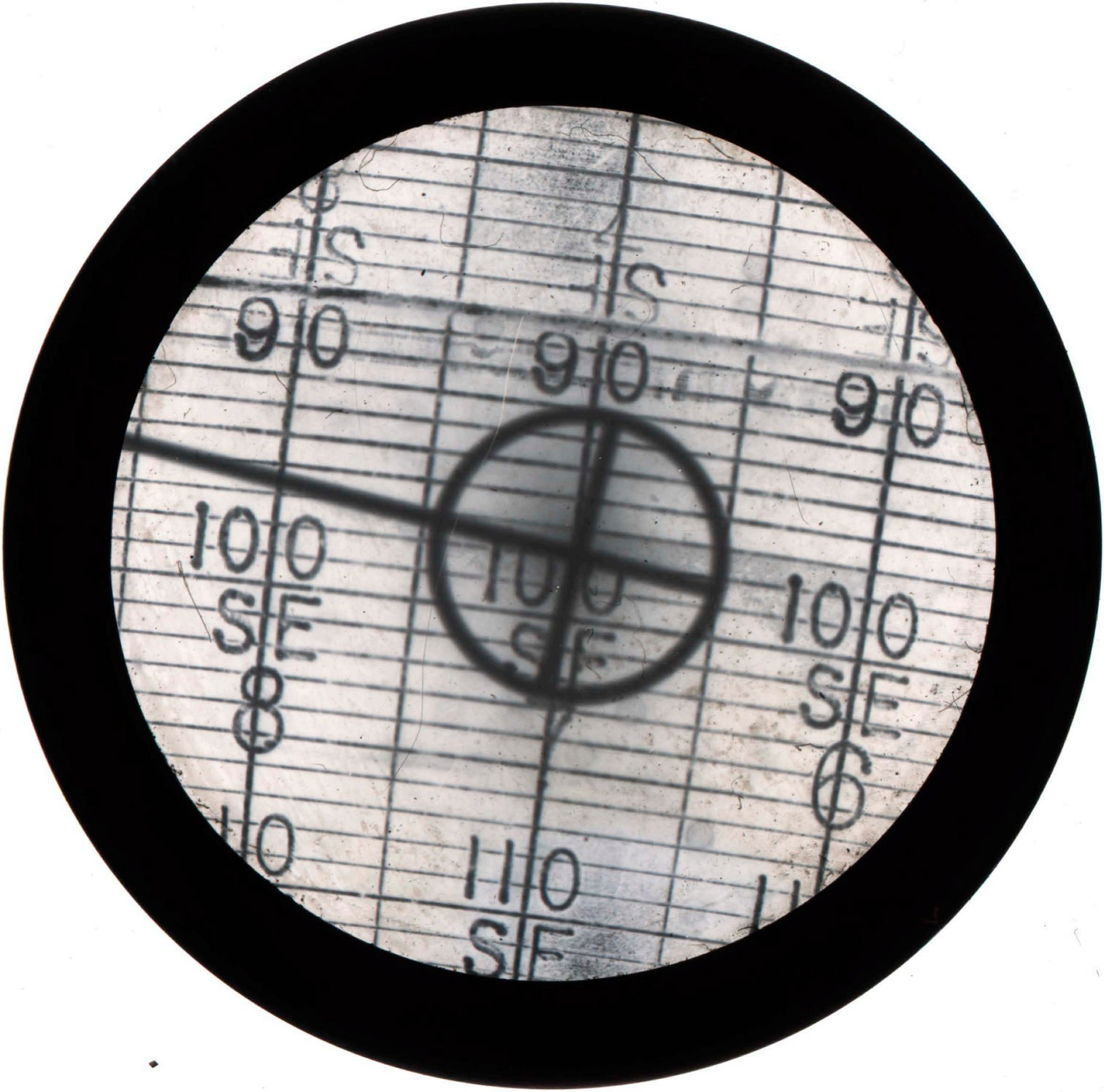

250
251.1
254
255
D-174-98 BOX NO 27
DEPTH 249. - 259.

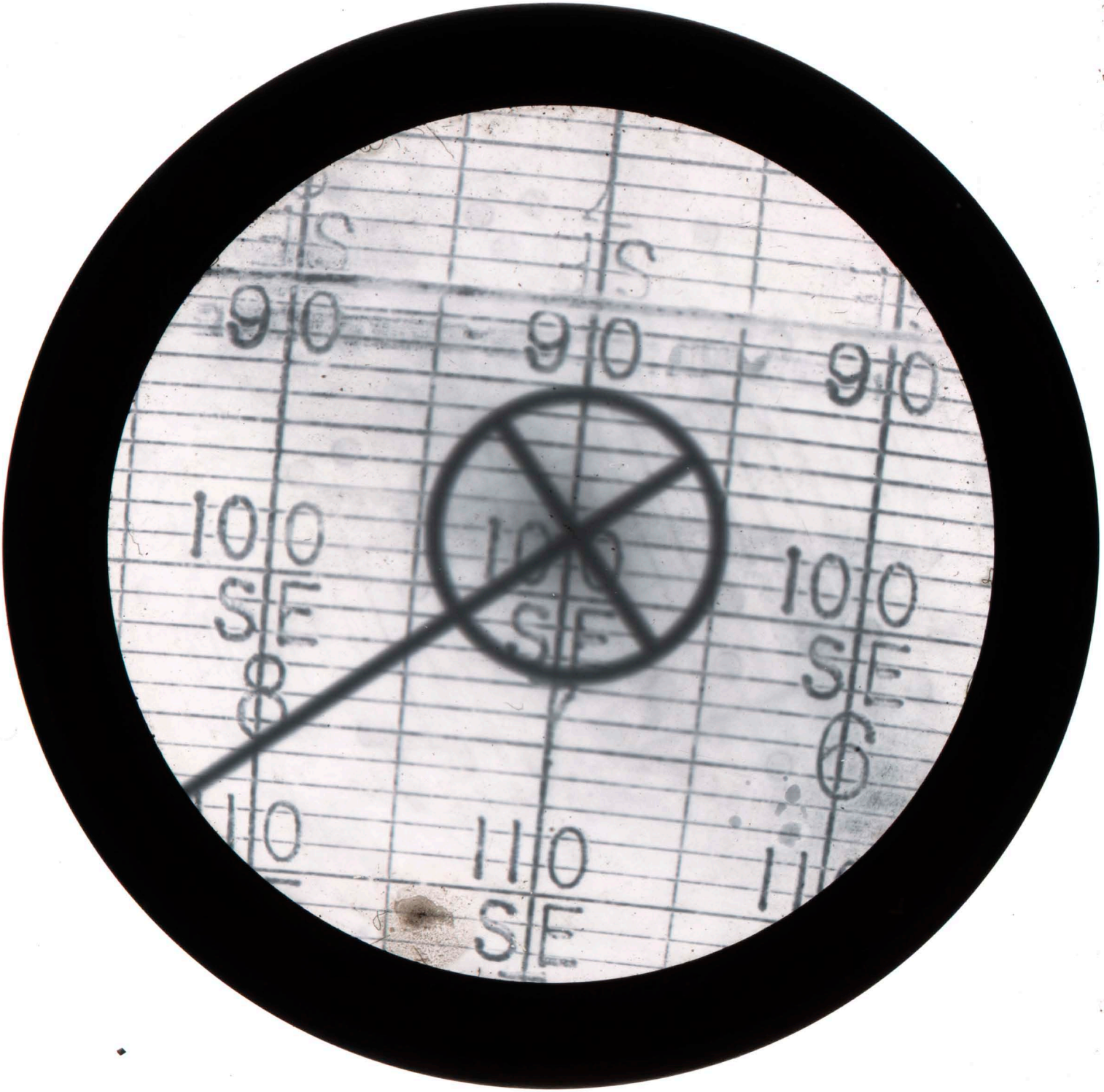
280
284
286
285
D-174-98 BOX NO 30
DEPTH 277.' - 286.


270
275
D-174-98 BOX NO 29
DEPTH 268. - 277.


290
TD
D-174-98 BOX NO 31
DEPTH 286.' - 290.
TD


90
90
90
100
100
100
SF
SF
SF
8
6
110
110
SF


90
90
90
100
100
100
SF
SF
SF
8
6
110
110
SF


S
S
90
90
90
100
100
100
SE
SE
SE
8
6
110
110
110
SE