6000 0687

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-200-88
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 220'; handwritten notes down hole camera images 28 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: DD 4/28/08
Initials Date

DB:
Initials Date

SCANNED:
Initials Date

Revised: 1/22/08

D- 200-98

6000 0687
4010

6000 0087

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

Hecla
MINING COMPANY

ROSEBUD PROJECT
DIAMOND DRILL LOG

HOLE NUMBER	D-200-98	LOCATION	East Zone 42 Stope Sec. 1550	REMARKS	
PAGE 1 OF 4		NORTHING			
DATE	4/17/98	EASTING			
LOGGED BY	Brian W. Morris	ELEVATION			
SCALE	1" = 10'	AZIMUTH	N 54 W		
TOTAL DEPTH	220'	INCLINATION	+16		

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
		0-50' Monolithic Autobrecciate Dozer Lt gry v.fg Subrounded - Subangular Clast ghosts supported by gry - Lt br v.fg Mtx 28.1-30.5' Vfg Lt gry Massive flowbanded Dozer.	5, 10, 15, 20, 25, 30, 35, 40, 45, 50	75°, 65°, 38°	34-36' Rubble-Milled BXAL Mtx gry SiO_2 Mtx supported w/ subangular autobxn dozer clasts.	0-14' Mod Str argil, wk fine grain lowx to core axis 14- Clasts are Mod argil, Mtx locally wk silic 30.5-32.5' Str gr clay alt, Mod diss sulf Mod SiO_2 + sulf Un. 34-36' Wk diss sulf. 40-50' Wk py + Marc + SiO_2 Un + Vnlets, Wk argil, wk diss sulf

ANALYTICAL DATA						
FROM	TO	W	Au	Ag	Au2	Ag
0	5					
5	9					
9	14					
14	19					
19	24					
24	29					
29	34					
29	39					
39	44.5					
44.5	50					

HOLE NUMBER D-200-98 PAGE 2 OF 4

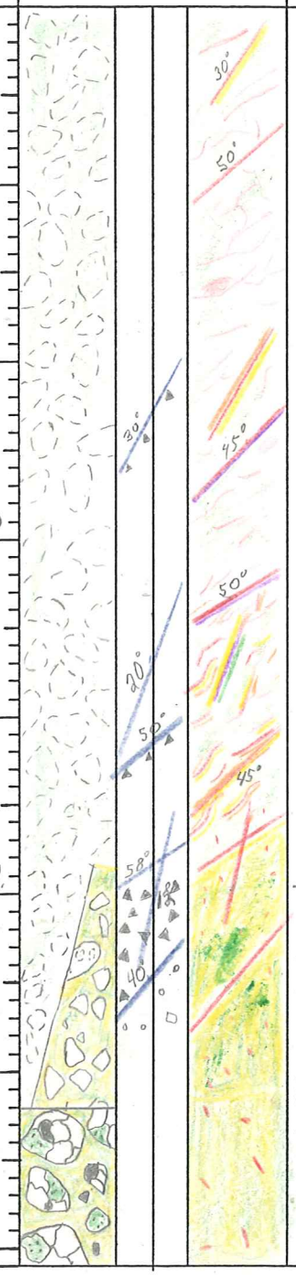
LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
	Reduced	50-120' Autobrecciated Dozer Rhyolite Lt Gray v.fg Subrounded - Sub angular Monolithic Clast ghosts supported by Lt gry fg-cg Volcaniclastic Mtx. Locally str reddish br st. of Mtx.	55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105, 110, 115, 120	50°, 65°, 45°, 50°	109-116' Monolithic Rubble - Milled brec: Mtx Supported, Lt gry V.fg subrounded - sub-angular Dozer clasts supported by v.dk gry SiO_2	50-109 Minor Sulf patches, Wk sulf ± SiO_2 Vn & Vnlets, v.wk perv, gr clay alt, wk argil 109-116' Wk - Mod diss Sulf & sulf patches.

ANALYTICAL DATA					
FROM	TO	W	Au	Ag	Au2
50	55				
55	60				
60	65				
65	70				
70	75				
75	80				
80	85				
85	90				
90	95				
95	100				
100	105				
105	109				
109	112.5				
112.5	116.0				
116.0	120.0				

HOLE NUMBER D-200-98 PAGE 3 OF 4

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
	Reduced	120.0 - 182 Autobrecciated Dozer: Lt gry Vfg Monolithic subrounded Dozer Clasts supported by Vfg eq uigranular Mtx	125, 130, 135, 140, 145, 150, 155, 160, 165, 170, 175, 180, 185, 190		170-175.8 Rubble BXA: Gr Rx flour + SiO_2 Mtx Supporting 1-2cm dia Lt gry Subround Dozer clasts 175.8-182.0 Milled BXA: Dk-Lt gr - dk gry SiO_2 flooded Mtx w/ Mtx supported, rounded br-gr Volcaniclastic Clasts w/ minor blk phyllite clasts. 182-194 Rubble BXA: Subrounded, Tos Clasts Supported by gr SiO_2 Mtx	120-153' Wk-Mod Sulf + SiO_2 ± wh Clay Vn, Unlefs + stk wk. 153'-156.6 Str Bladed Marc + SiO_2 + wh Clay ± gr Clay Vns + Bxa Mtx, Mod 1-3cm wide BxA, wk diss py, locally Vugs, Mod argil. 156.6-158.6 Str SiO_2 ± gr clay ± wh SiO_2 ± wh Clay 158.6-167.2 Mod-Str gry SiO_2 + bladed Marc + wh Clay 170-175: Wk-Mod Sulf ± wh Clay, wk diss sulf. 182-194 Str silicified Mtx w/ wk gry Clay overprint.

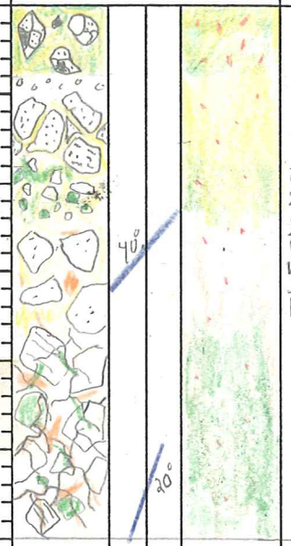
182-194 Tos
Clast Supported Heterolithic reworked Volcanic tuff & volcaniclastic clasts w/ minor blk phillite Clasts.



ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2
120	125				
125	130				
130	135				
135	140				
140	145				
145	150				
150	153				
153	156.6				
156.6	158.6				
158.6	162				
162	167.2				
167.2	170.0				
170.0	172.0				
172.0	175.0				
175	175.8				
175.8	180.2				
180.2	185				
185	190				

HOLE NUMBER D-200-98 PAGE 4 OF 4

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
	Reduced	Tos Clast BXA 190-194 194-220 LBT Br-Ltgrybr fg-Mg locally Auto Bxa Volcaniclastic. 196.5 Rx grades into fine Ltgr/br mottled "LST like" text. 203'-220 Br fg Massive-finely laminated T.D. 220'	195 200 205 210 215 220		194-201.5' 194-194.5 Milled silicahealed BXA w/ <20% rounded clasts 194.5-198.5 Gray SiO_2 healed Crackle BXA 198.5-201.5' Gray SiO_2 healed Rubble Bxa 201.5-202.8 Mtx supported Milled BXA, Gray SiO_2 mtx Supporting ± 20% round Volcaniclastic Clasts. 202.8-203.3 Gry SiO_2 flooded w/ Gry Qt clasts healed by wh clay + wh Qt 203.3-208 Rubble-Milled BXA healed by gry-milky gry SiO_2	194-197 Mod Silicified, wk diss py., Minor wh clay ± Bladed Mont 203.3-208 Mtx str leached + Fx w/ wk-mod wh clay coating & vug fillings, ∑-wk diss Sulf. 208-220 Bxa highly Fxed & str leaching of Mtx w/ locally str argil, str wh clay replace. of leached Mtx, locally str gr clay alt of clasts, wk diss sulf.
			225 230			

ANALYTICAL DATA					
FROM	TO	W	Au	Ag	Au2
190	194				
194	197				
197	198.5				
198.5	201.5				
201.5	202.8				
202.8	203.3				
2033	208				
208	213				
213	215				
215	220				

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-200-98 DATE: 4-7-98 LOGGED BY: Brian W. Morris PAGE 1 OF 3

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	98	98	60										
5	9	85	85	32										
9	14	90	90	13										
14	19	100	100	52										
19	29	99	99	82										
29	39	96	96	77										
39	44.5	91	91	78										
44.5	50.	100	100	87										
50	58	86	86	86										
58	65	102	102	100										
65	72.5	100	100	75										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-200-98 DATE: 4-7-98 LOGGED BY: BWM PAGE 2 OF 3

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)
72.5	80.0	85	85	67										
80	88.0	91	91	82										
88.0	95.0	90	90	79										
95.0														
	110.0													
110.0	120.0	97	97	72										
120.0	130.0	100	100	80										
130.0	140.0	95	95	77										
140.0	150.0	96	96	75										
150.0	155.0	110	110	44										
155.0	165.0	87	87	79										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-200-98 DATE: 4-7-98 LOGGED BY: BWM PAGE 3 OF 3

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)
165.0	175.0	96	96	97										
175.0	182.0	67	67	66										
182.0	187.0	92	92	35										
187.0	194.0	116	116	84										
194.0	202.0	85	85	34										
202.0	208.0	100	100	16										
208.0	209.0	70	70	0										
209.0	211.0	50	50	0										
211.2	213.0	50	80	0										
213.0	215.0	50	80	0										
215.0	220.0	70	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

(702) 356-0606

INVOICE NO: SP 0048541-IN
INVOICE DATE: 05/04/98

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-200-98	DEVELOPMENT	NET 30 - DUE IN U.S. DOLLARS

QUANTITY	DESCRIPTION	PRICE	AMOUNT
54	SAMPLES RECEIVED	.00	.00
53	JAW CRUSHING CHARGE	2.60	137.80
53	COARSE MILLING CHARGE	9.00	477.00
53	SPLITTING CHARGE	2.40	127.20
53	RING MILLING CHARGE	2.00	106.00
54	Au (1 A.T. FIRE ASSAY)	8.00	432.00
19	Au ANALYSES/GRAVIMETRIC	8.75	166.25
54	HYDROCHLORIC/NITRIC DIGESTION	2.00	108.00
54	Ag ANALYSES	1.00	54.00
6	Ag (ore grade) ANALYSES	5.00	30.00

86-5110-477
KAD

NET INVOICE:	1,638.25
LESS DISCOUNT:	327.65
FREIGHT:	.00
INVOICE TOTAL:	1,310.60

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ANALYSIS REPORT SP048541

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-200-98 RECEIVED : 15 APR 1998

No. SAMPLES : 54 REPORTED : 1 MAY 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 SP048541

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-200-98

REPORTED : 1 MAY 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-200-98 0-5	0.004			0.05
D-200-98 5-9	0.008			0.05
D-200-98 9-14	0.006			0.04
D-200-98 14-19	0.002			0.03
D-200-98 19-24	0.001			0.02
D-200-98 24-29	0.007			0.05
D-200-98 29-34	0.100		0.076	0.16
D-200-98 34-39	0.200		0.187	0.10
D-200-98 39.0-44.5	0.453		0.393	0.11
D-200-98 44.5-50.0	0.011			0.05
D-200-98 50-55	0.006			0.06
D-200-98 55-60	0.008			0.07
D-200-98 60-65	0.005			0.07
D-200-98 65-70	0.005			0.05
D-200-98 70-75	<0.001			<0.02
D-200-98 75-80	0.003			0.02
D-200-98 80-85	0.003			0.03
D-200-98 85-90	0.008			0.04
D-200-98 90-95	0.243		0.173	0.11
D-200-98 95-100	0.043			0.04
D-200-98 100-105	0.027			0.03
D-200-98 105-109	0.202		0.159	0.05
D-200-98 109.0-112.5	0.024			0.04
D-200-98 112.5-116.0	0.090		0.085	0.07
D-200-98 116-120	0.023			0.06

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ANALYSIS REPORT SP048541

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-200-98

REPORTED : 1 MAY 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-200-98 120-125	0.124		0.108	0.10
D-200-98 125-130	0.009			0.05
D-200-98 130-135	0.030			0.04
D-200-98 135-140	0.021			0.05
D-200-98 140-145	0.037			0.24
D-200-98 145-150	0.023			0.42
D-200-98 150-153	0.074		0.085	0.14
D-200-98 153.0-156.6	0.206		0.186	0.14
D-200-98 156.6-158.6	0.737		0.622	1.13
D-200-98 158.6-162.0	0.180		0.219	0.09
D-200-98 162.0-167.2	0.068		0.059	1.88
D-200-98 167.2-170.0	0.206		0.192	0.27
D-200-98 170-172	0.180		0.238	0.56
D-200-98 172-175	0.503		0.427	0.54
D-200-98 175.0-175.8	0.443		0.766	0.84
D-200-98 175.8-180.2	0.875		0.802	0.70
D-200-98 180.2-185.0	0.074		0.123	0.17
D-200-98 185-190	0.037			0.41
D-200-98 190-194	0.139		0.141	4.73
D-200-98 194-197	0.018			1.66
D-200-98 197.0-198.5	0.028			13.40
D-200-98 198.5-201.5	0.041			2.92
D-200-98 201.5-202.8	0.035			1.68
D-200-98 202.8-203.3	0.007			0.05
D-200-98 203.3-208.0	0.004			0.28

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ANALYSIS REPORT SP048541

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-200-98

REPORTED : 1 MAY 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-200-98 208-213	0.015			0.68
D-200-98 213-215	0.010			0.93
D-200-98 215-220	0.009			0.58
31006	0.513			5.04

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ANALYSIS REPORT SP048541

American Assay Laboratories

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HECLA MINING COMPANY

COPIES TO : KURT ALLEN
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:
:

CLIENT REFERENCE No: D-200-98 RECEIVED : 15 APR 1998

No. SAMPLES : 54 REPORTED : 1 MAY 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 SP048541

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-200-98

REPORTED : 1 MAY 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-200-98 0-5	0.004			0.05
D-200-98 5-9	0.008			0.05
D-200-98 9-14	0.006			0.04
D-200-98 14-19	0.002			0.03
D-200-98 19-24	0.001			0.02
D-200-98 24-29	0.007			0.05
D-200-98 29-34	0.100		0.076	0.16
D-200-98 34-39	0.200		0.187	0.10
D-200-98 39.0-44.5	0.453		0.393	0.11
D-200-98 44.5-50.0	0.011			0.05
D-200-98 50-55	0.006			0.06
D-200-98 55-60	0.008			0.07
D-200-98 60-65	0.005			0.07
D-200-98 65-70	0.005			0.05
D-200-98 70-75	<0.001			<0.02
D-200-98 75-80	0.003			0.02
D-200-98 80-85	0.003			0.03
D-200-98 85-90	0.008			0.04
D-200-98 90-95	0.243		0.173	0.11
D-200-98 95-100	0.043			0.04
D-200-98 100-105	0.027			0.03
D-200-98 105-109	0.202		0.159	0.05
D-200-98 109.0-112.5	0.024			0.04
D-200-98 112.5-116.0	0.090		0.085	0.07
D-200-98 116-120	0.023			0.06

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP048541

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CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-200-98

REPORTED : 1 MAY 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-200-98 120-125	0.124		0.108	0.10
D-200-98 125-130	0.009			0.05
D-200-98 130-135	0.030			0.04
D-200-98 135-140	0.021			0.05
D-200-98 140-145	0.037			0.24
D-200-98 145-150	0.023			0.42
D-200-98 150-153	0.074		0.085	0.14
D-200-98 153.0-156.6	0.206		0.186	0.14
D-200-98 156.6-158.6	0.737		0.622	1.13
D-200-98 158.6-162.0	0.180		0.219	0.09
D-200-98 162.0-167.2	0.068		0.059	1.88
D-200-98 167.2-170.0	0.206		0.192	0.27
D-200-98 170-172	0.180		0.238	0.56
D-200-98 172-175	0.503		0.427	0.54
D-200-98 175.0-175.8	0.443		0.766	0.84
D-200-98 175.8-180.2	0.875		0.802	0.70
D-200-98 180.2-185.0	0.074		0.123	0.17
D-200-98 185-190	0.037			0.41
D-200-98 190-194	0.139		0.141	4.73
D-200-98 194-197	0.018			1.66
D-200-98 197.0-198.5	0.028			13.40
D-200-98 198.5-201.5	0.041			2.92
D-200-98 201.5-202.8	0.035			1.68
D-200-98 202.8-203.3	0.007			0.05
D-200-98 203.3-208.0	0.004			0.28

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP048541

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-200-98

REPORTED : 1 MAY 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-200-98 208-213	0.015			0.68
D-200-98 213-215	0.010			0.93
D-200-98 215-220	0.009			0.58
31006	0.513			5.04

SP

SUBMITTAL FORM

American Assay Laboratories

Geochemical • Environmental • Metallurgical

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Fax
(702) 738-2594

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

Other Offices
Lima, Peru
Santiago, Chile
Mendoza, Argentina

Company: ROSEBUD MINING CO LTT

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: 04/14/98 Number of Samples: 53

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

D-200-98	SAMPLE IDENTIFICATION		TYPE	ELEMENTS REQUIRED
0-5	75-80	145.0-150.0	CORE	Ag-Au ACCORDING TO
5-9	80-85	150.0-153.0		ROSEBUD MINE
9-14	85-90	153.0-156.6		PROTOCOL
14-19	90-95	156.6-158.6		198.5-201.5
19-24	95-100	158.6-162		201.5-202.8
24-29	100-105	162-167.2		202.8-203.3
29-34	105-109	167.2-170.0		203.3-208
34-39	109-112.5	170.0-172.0		208-213
39-44.5	112.5-116.0	172.0-175.8		213-215
44.5-50	116.0-120.0	175.8-180.2		215-220.
50-55	120.0-125.0	180.2-185.0		
55-60	125.0-130.0	185-190		
60-65	130.0-135.0	190-194		
65-70	135.0-140.0	194-197		
70-75	140.0-145.0	197-198.5		

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 SP048541

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-200-98 RECEIVED : 15 APR 1998

No. SAMPLES : 54 REPORTED : 1 MAY 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.

05/01/1998 12:33 7023561413 AMERICAN ASSAY LABS PAGE 01
7023561413

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP048541

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-200-98

REPORTED : 1 MAY 1998

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)	
D-200-98 0-5	0.004			0.05	
D-200-98 5-9	0.008			0.05	
D-200-98 9-14	0.006			0.04	
D-200-98 14-19	0.002			0.03	
D-200-98 19-24	0.001			0.02	
D-200-98 24-29	0.007			0.05	
D-200-98 29-34	0.100		0.076	0.16	34-44.5 = 10.5'
D-200-98 34-39 5	0.200		0.187	0.10	0.333 Au
D-200-98 39.0-44.5 5.5	0.453		0.393	0.11	0.11 Ag
D-200-98 44.5-50.0	0.011			0.05	
D-200-98 50-55	0.006			0.06	
D-200-98 55-60	0.008			0.07	
D-200-98 60-65	0.005			0.07	
D-200-98 65-70	0.005			0.05	
D-200-98 70-75	<0.001			<0.02	
D-200-98 75-80	0.003			0.02	
D-200-98 80-85	0.003			0.03	
D-200-98 85-90	0.008			0.04	5'
D-200-98 90-95	0.243		0.173	0.11	
D-200-98 95-100	0.043			0.04	
D-200-98 100-105	0.027			0.03	
D-200-98 105-109	0.202		0.159	0.05	
D-200-98 109.0-112.5	0.024			0.04	
D-200-98 112.5-116.0	0.090		0.085	0.07	
D-200-98 116-120	0.023			0.06	

AMERICAN ASSAY LABORATORIES

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REPORTED : 1 MAY 1998

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)	
D-200-98 120-125	0.124		0.108	0.10	
D-200-98 125-130	0.009			0.05	
D-200-98 130-135	0.030			0.04	
D-200-98 135-140	0.021			0.05	
D-200-98 140-145	0.037			0.24	
D-200-98 145-150	0.023			0.42	153 - 180.2' =
D-200-98 150-153	0.074		0.085	0.14	27.2'
D-200-98 153.0-156.6 3.6	0.206		0.186	0.14	
D-200-98 156.6-158.6 2.0	0.737		0.622	1.13	0.36 Au
D-200-98 158.6-162.0 3.4	0.180		0.219	0.09	0.72 Ag
D-200-98 162.0-167.2 5.2	0.068		0.059	1.88	
D-200-98 167.2-170.0 2.8	0.206		0.192	0.27	
D-200-98 170-172 2.0	0.180		0.238	0.56	
D-200-98 172-175 3.0	0.503		0.427	0.54	
D-200-98 175.0-175.8 0.8	0.443		0.766	0.84	
D-200-98 175.8-180.2 4.4	0.875		0.802	0.70	
D-200-98 180.2-185.0	0.074		0.123	0.17	
D-200-98 185-190	0.037			0.41	
D-200-98 190-194	0.139		0.141	4.73	
D-200-98 194-197	0.018			1.66	
D-200-98 197.0-198.5	0.028			13.40	
D-200-98 198.5-201.5	0.041			2.92	
D-200-98 201.5-202.8	0.035			1.68	
D-200-98 202.8-203.3	0.007			0.05	
D-200-98 203.3-208.0	0.004			0.28	

AMERICAN ASSAY LABORATORIES

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REPORTED : 1 MAY 1998

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
D-200-98 208-213	0.015			0.68
D-200-98 213-215	0.010			0.93
D-200-98 215-220	0.009			0.58
31006	0.513			5.04

D-200-98	0	15.5	302.2
	110	16	299.7
	220	16	299.7

D - 200 - 98 BOX 2
DEPTH - 10. - 19.5

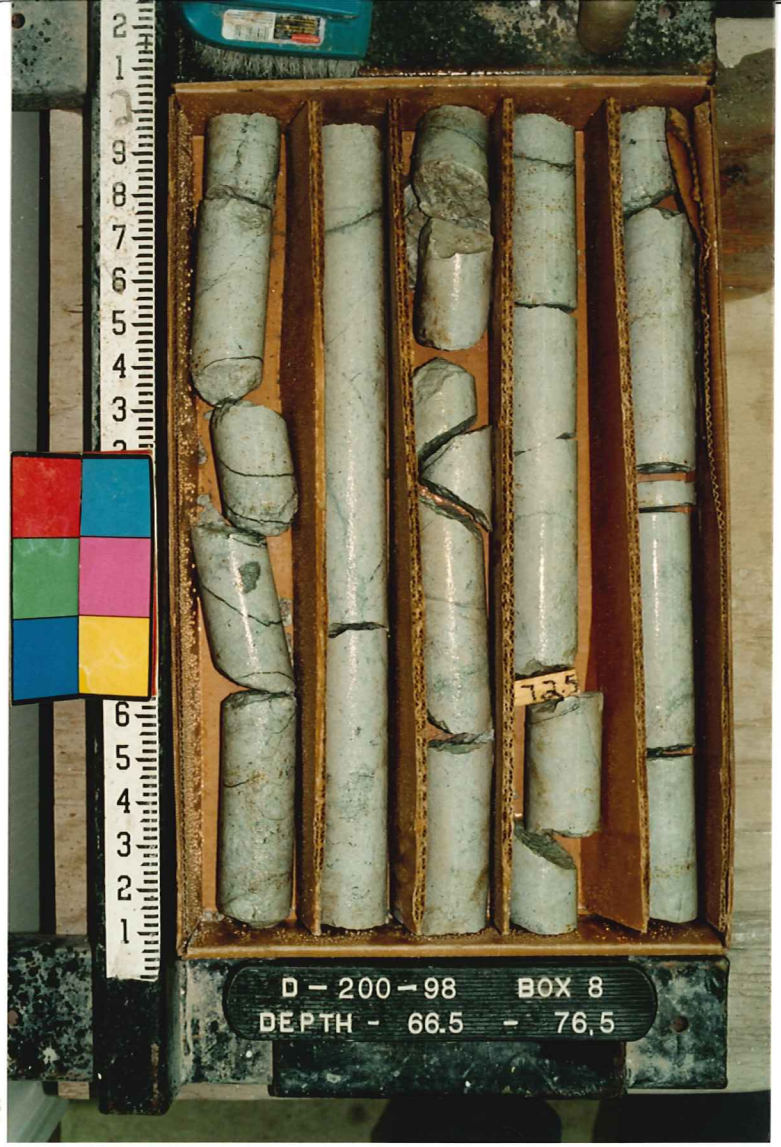
D - 200 - 98 BOX 1
DEPTH - 0.0 - 10.

D - 200 - 98 BOX 3
DEPTH - 19.5 - 28.5

D - 200 - 98 BOX 5
DEPTH - 38. - 48.

D - 200 - 98 BOX 4
DEPTH - 28.5 - 38.

D - 200 - 98 BOX 6
DEPTH - 48. - 57.5

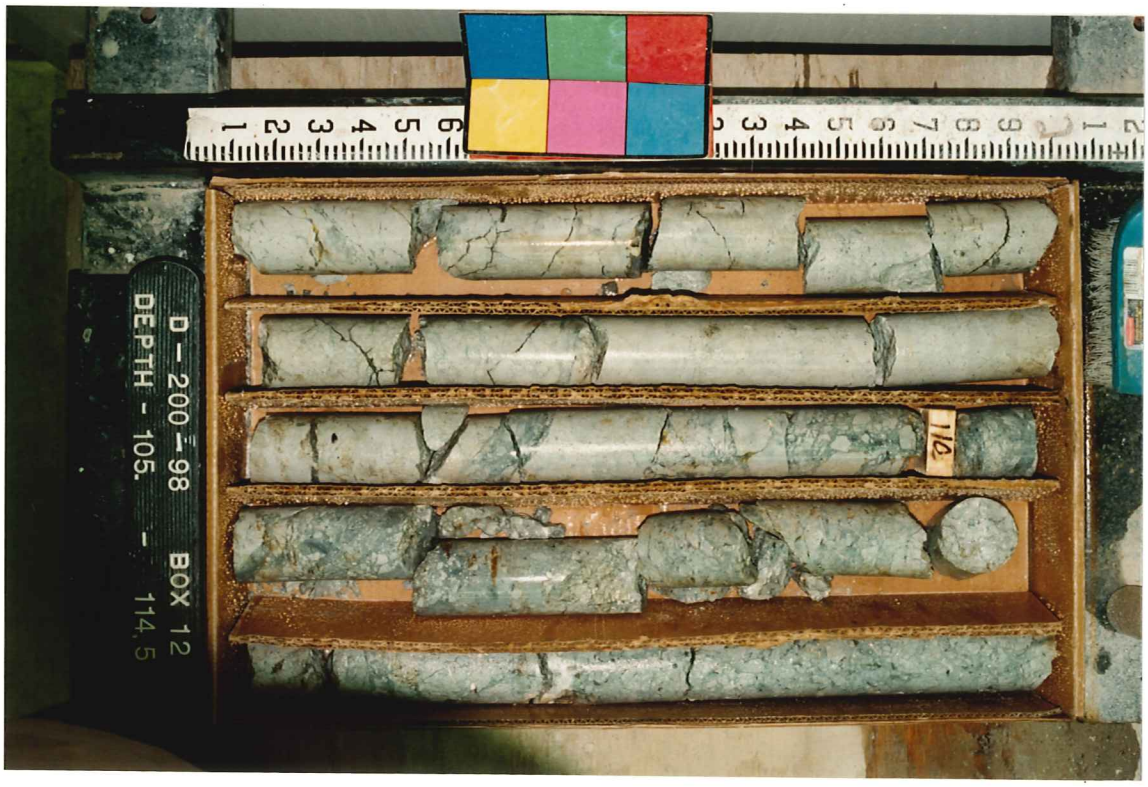

D - 200 - 98 BOX 8
DEPTH - 66.5 - 76.5

D - 200 - 98 BOX 7
DEPTH - 57.5 - 66.5

D - 200 - 98 BOX 9
DEPTH - 76.5 - 86.

D - 200 - 98 BOX 11
DEPTH - 95.5 - 105.

D - 200 - 98 BOX 10
DEPTH - 86. - 95.5


D - 200 - 98 BOX 12
DEPTH - 105. - 114.5

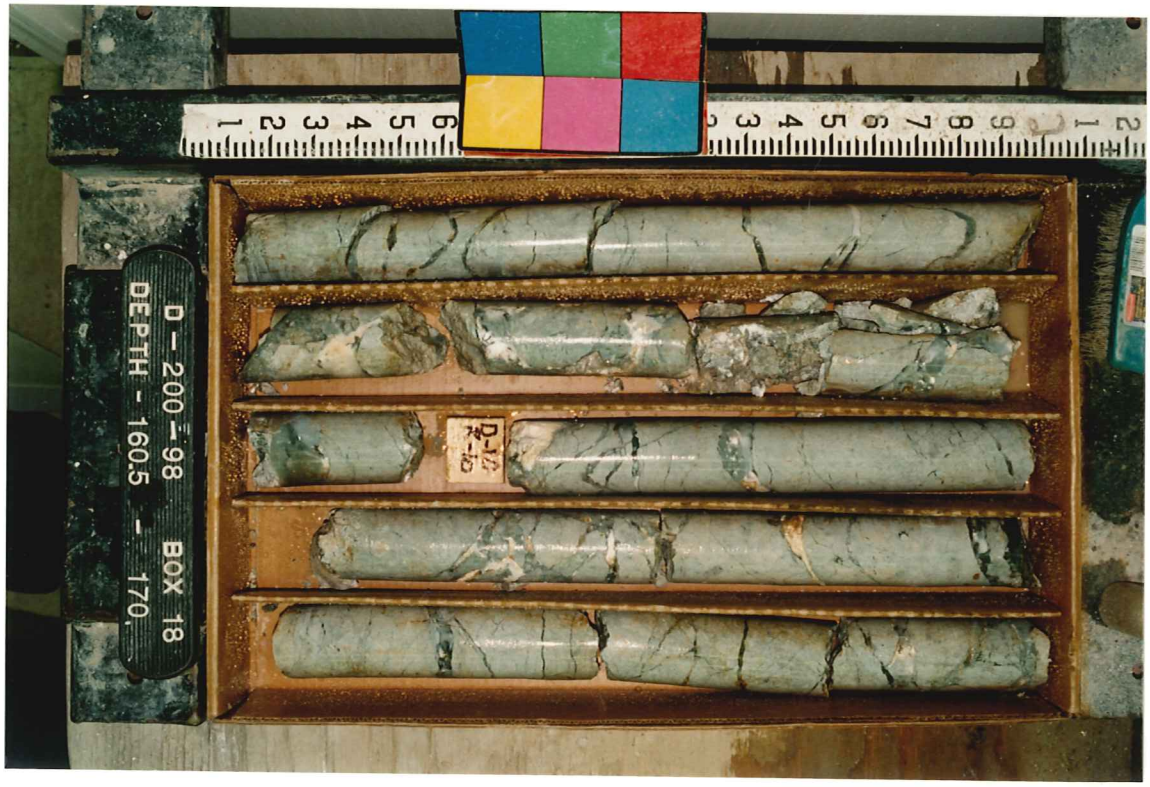
130
D - 200 - 98 BOX 14
DEPTH - 123.5 - 132.5

120
D - 200 - 98 BOX 13
DEPTH - 114.5 - 123.5

140
D - 200 - 98 BOX 15
DEPTH - 132.5 - 142

D - 200 - 98 BOX 17
DEPTH - 151.5 - 160.5

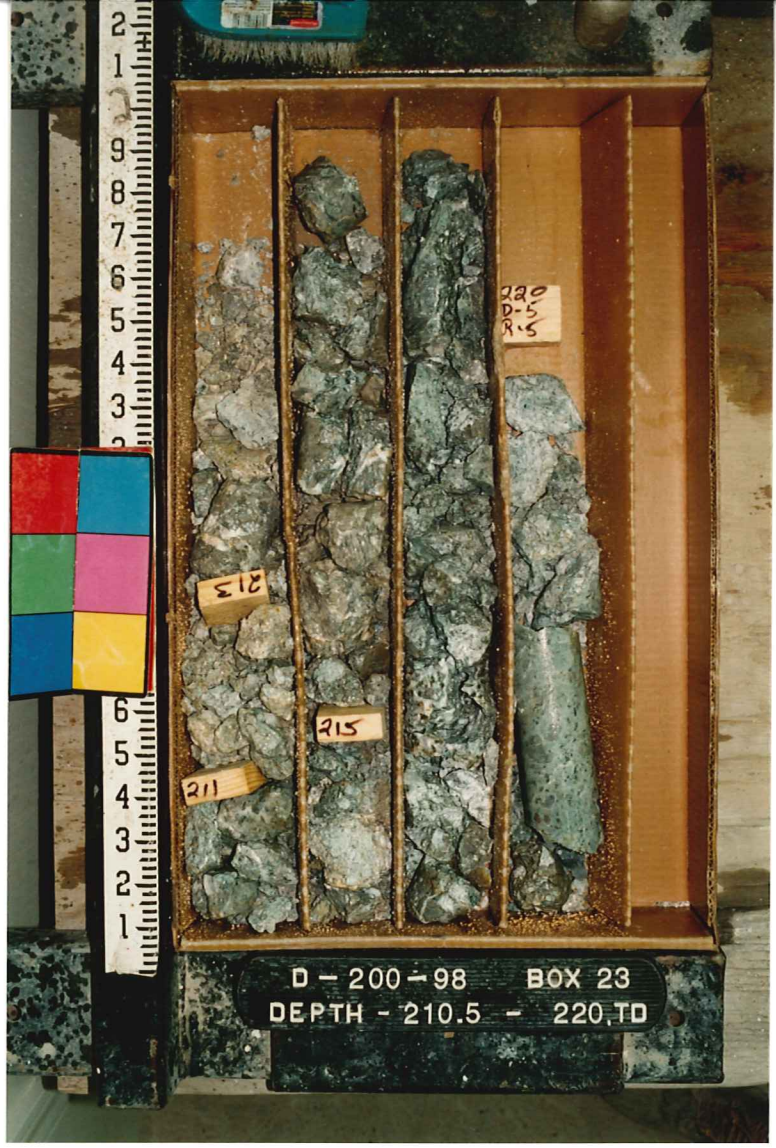
D - 200 - 98 BOX 16
DEPTH - 142. - 151.5


D - 200 - 98 BOX 18
DEPTH - 160.5 - 170.

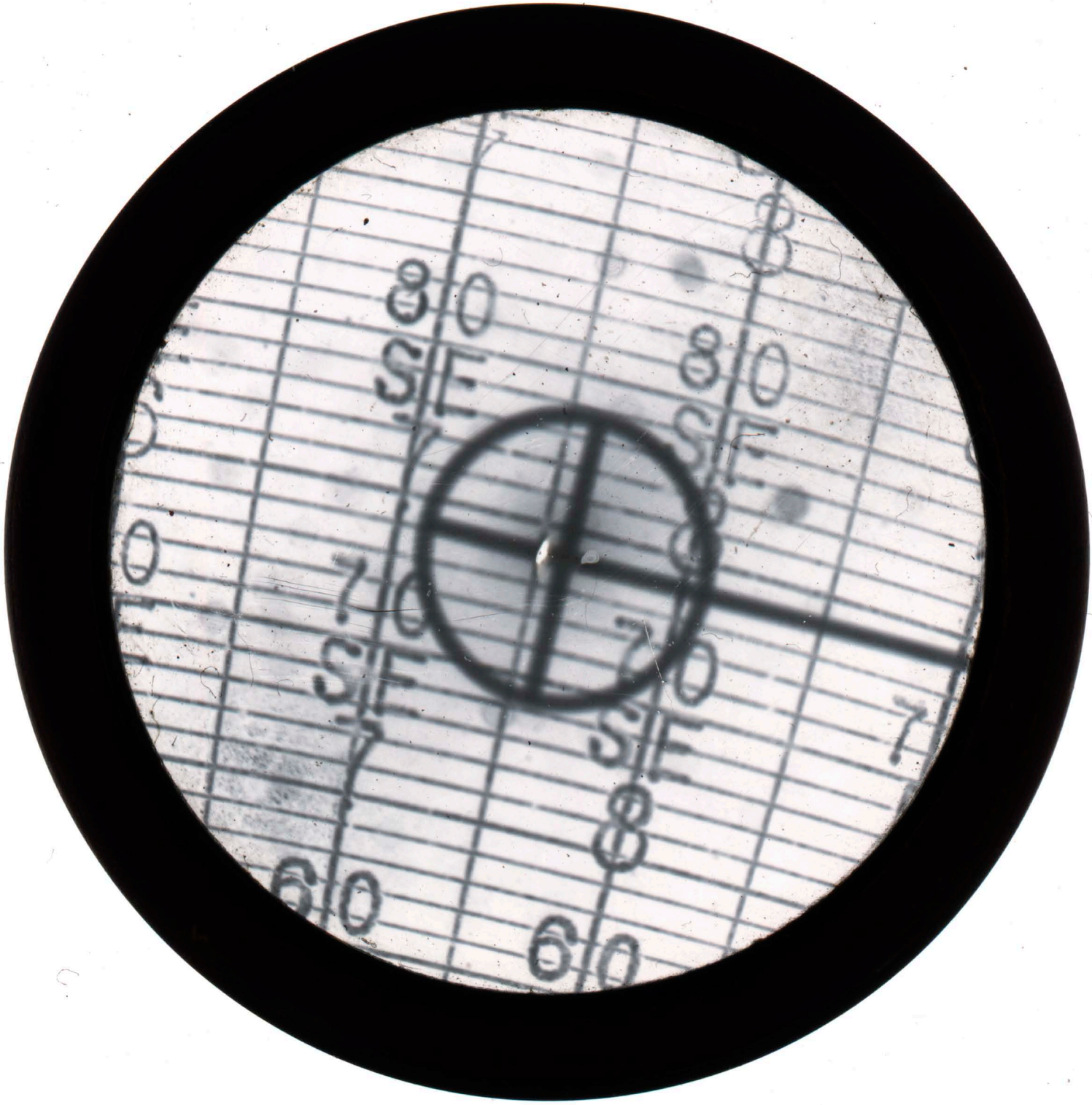
D – 200 – 98 BOX 20
DEPTH - 179.5 - 190.5

D – 200 – 98 BOX 19
DEPTH - 170. - 179.5

D – 200 – 98 BOX 21
DEPTH - 190.5 - 200.5


220
D-5
R-5
213
215
211
D - 200 - 98 BOX 23
DEPTH - 210.5 - 220,TD

208
202
209
D - 200 - 98 BOX 22
DEPTH - 200.5 - 210.5


80
SE
70
SE
60
80
SE
70
SE
60

80
SE
70
SE
60