60001105

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-225-98
AUTHOR	S. King; K. Allen
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 243' receipt; handwritten notes; downhole camera images 31p. 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 5/13/08
Initials Date
DB: mah
Initials Date
SCANNED:
Initials Date

Revised: 1/22/08

D-225-98

60001105 4010

6000.1105

Hecla MINING COMPANY

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

ROSEBUD PROJECT
DIAMOND DRILL LOG

HOLE NUMBER	D-225-98	LOCATION	STOPE 42, EAST
PAGE	1 OF 4	NORTHING	
DATE	05/28/98	EASTING	
LOGGED BY	ADM	ELEVATION	
SCALE	1" = 10'	AZIMUTH	N54W
TOTAL DEPTH	243'	INCLINATION	+13°

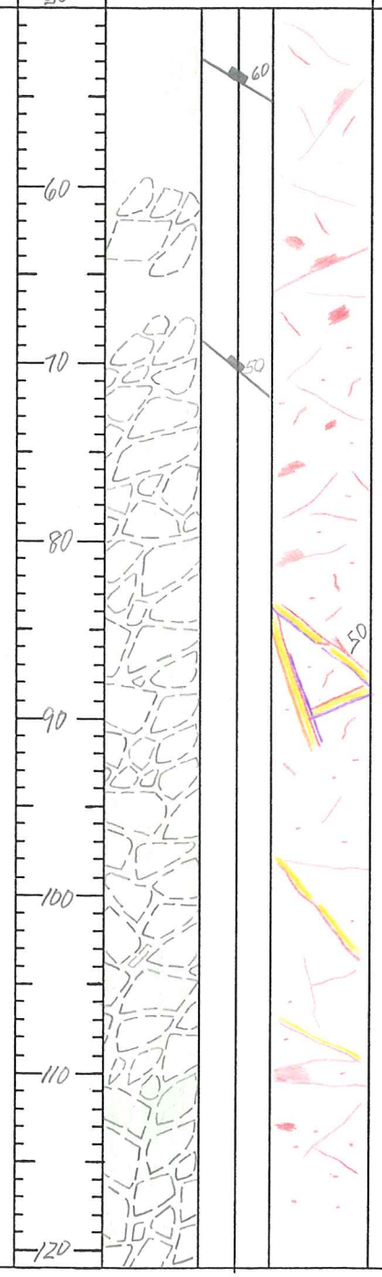
REMARKS

ITH.	OX / RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
0.0' - 196.5 DOZER		0.0' - 196.5 : PALE GREENISH-GRAY, AUTOBRECCIATED MOSAIC-TEXTURED DOZER.	0		MODERATE FLAT JNTING, COMMONLY QZ-MARC COATED.	0'-15.3': MODERATE GRN CLAY VNLTS & BXA VNS + MOD. QZ-MARC VNLTS. TR. GRN CLAY ALT'N OF WALLRK
		~27': AUTOBRECCIA TEXTURE REDUCED TO INTERMITTENT CRACKLE BRECCIA.	10			
			20	55		FROM 15.3': WK QZ+MARC PY VNING. WK WISPY PY VNLTS. MOD. PYRITIC BLEB-BING OF WALLRK.
			30	45		
			40			
			50	75		

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2	Ac
0	5.0					
5.0	10.0					
10.0	15.3					
15.3	20.0					
20.0	25.3					
25.3	30.0					
30.0	35.1					
35.1	40.0					
40.0	45.0					
45.0	50.0					

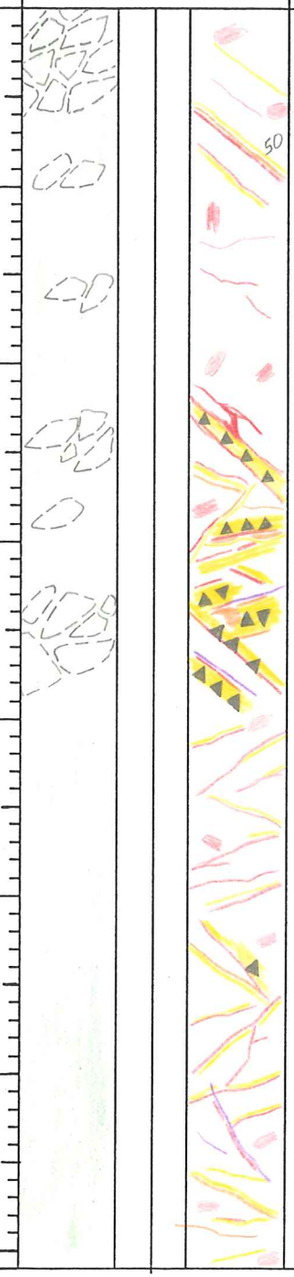
HOLE NUMBER D-225-98 PAGE 2 OF 4

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
0.0'– DOZER	196.5	~60': FINE MOSAIC-TEXTURED DOZER AUTOBRECCIA RESUMES.	50 60 70 80 90 100 110 120			FROM ~15.3': CONTINUED WK WISPY PYRITE VNING, WK QUARTZ+MARCASITE VNLTS & VNS, +/- BLOCKY BARITE ON OPEN SPACE. TRACE GRN CLAY ALT'N IN WALLRK.

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2
50.0	55.0				
55.0	60.1				
60.1	65.0				
65.0	70.0				
70.0	75.0				
75.0	80.0				
80.0	84.7				
84.7	90.0				
90.0	95.0				
95.0	100.0				
100.0	105.2				
105.2	110.0				
110.0	115.0				
115.0	120.0				

HOLE NUMBER D-225-98 PAGE 3 OF 4

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
0.0 – 196.5 DOZER		~125': WELL-DEVELOPED AUTOBRECCIA TEXTURE BECOMES INTERMITTENT, INTERSPERSED WITH MASSIVE TO FINELY AUTOCLASTIC DOZER CRACKLE BXA. CONT'D PALE GRNISH GRAY. FROM 144.2': BRECCIA VNING OVERPRINTS INTERMITTENTLY MOSAIC-TEXTURED AUTOBRECCIA. ~170.0': DOZER IS MOSTLY MASSIVE & APHANITIC & LIGHT GRAY. MOD'LY TO STRLY VEIN STOCKWORKED.	120 130 140 150 160 170 180 190			~125': PYRITIC BLEBBING PICKS UP IN GROUNDMASS 144.2'-163.5': CONT'D TR GRN CLAY ALTN IN WALLRK. QUARTZ + MARCASITE +/- WHT CLAY VNLTS INCREASED TO MODERATE / STRONG. SILICA +/- MARC/PY CEMENTS CRACKLE BRECCIA VNS. LEACHED WHT SILICA +/- CLAY FILLS OPEN SPACE. WK BLOCKY BARITE ON FRAX. 163.5'-~194': MORE MODERATE SILICA + MARC/PYRITE VEINLETS. CONT'D MODERATE PYRITIC BLEBBING IN WALLRK. WK LATE BARITE, MOD. LEACHED WHT SILICA +/- WHT CLAY.

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2
120.0	125.0				
125.0	130.0				
130.0	135.0				
135.0	140.0				
140.0	144.2				
144.2	150.0				
150.0	155.0				
155.0	160.0				
160.0	163.5				
163.5	168.2				
168.2	174.5				
174.5	180.0				
180.0	184.8				
184.8	190.0				

HOLE NUMBER D-225-98 PAGE 4 OF 4

LITH.	OX/RED	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
0.0'– 196.3' DOZER			190		196.3'-197.3': BOULDINAGED DOZER MYLONITE. 197.3-198.8': MUSHY, TEXTURE OBSCURED BXA.	
196.3'– 226.5' SOUTH RIDGE FAULT ZONE		196.0-197.3': MYLONITIZED, SILICIFIED & GRN CLAY ALTERED DOZER. TOP OF FAULT ZONE; MYLONITE. 197.3-198.8': MEDIUM GRN, MUSHY/IRREGULAR BRECCIA; PROBABLY MONOLITHIC BUD-DERIVED. 198.8'-201.4': SAND-SIZED TO MYLONITIZED PEBBLE-SIZED HETEROLITHIC MUSH OVERPRINTED WITH SiO_2 TAN TO LT. GRK. 201.4-205.5': WHT SILICA CEMENTED MONOLITHIC MOSAIC BRECCIA. GRN LBT (MASSIVE) ANGULAR TO SUB-ROUNDED FRAGMENTS. PEBBLE TO SMALL COBBLE-SIZED. 205.5'-210.7': DENSE-PACKED AUTOCLASTIC TO MATRIX-SUPPORTED LBT BRECCIA. LARGELY MONOLITHIC. SAME BLUE-GRN AS ABOVE. * 206.5': MINOR PEBBLE-SIZED PALE GRN FRAGMENTS	200 210		199.0': SLICKED JOINT AT 40° TO C/A. 198.8'-201.4': SILICIFIED ROCK FLOUR, HETEROLITHIC 201.4'-205.5': CRACKLE TO MOSAIC BXA. WHT SILICA CEMENTED. 205.5'-210.7': TIGHT, RUBBLY MOSAIC BRECCIA ~ 210.7-222.7': HETERO-LITHIC, RK FLOUR MATRIX MOSAIC-TEXTURE. 222.7'-226.6': AS ABOVE, MORE GROUND UP,	196.0-197.3': INTERMITTENT STRONG SILICIFICATION + DISS'D MARCASITE AT TOP & BOTTOM OF MYLONITE. MYLONITIZED ZONE ITSELF IS STRLY ALTERED TO WAXY GRN CLAY. 197.3'-198.8': STRONG GRN CLAY ALTERATION OVER-PRINTED WITH STR. PERVA-SIVE SILICIFICATN. WK/MOD. DISSEMINATED PY (+/- CPY) 200.0'-209': COXCOMB BARITE BRECCIA VNS IN-FILLED WITH WHT CLAY, OVERPRINTING SILICIFIED FAULT BRECCIA. 198.8-199': SILICA REPLAC
		210.7-222.7': HETEROLITHIC, MOSAIC-TEXTURED BXA. MINOR TO MODERATE ROCK FLOUR MATRIX, SILICA CEMENTED. VARIABLY CLAST- TO MATRIX-SUPPORTED, DOMINANTLY CLAST-RICH.	220		MATRIX-SUPPORTED. 226.5-227.5': PARTIALLY HEALED SHEAR ZONE @ 30° TO C/A. 227.5'-243.0': MUSHY TEXTURE-OBSCURED HETE-ROLITHIC MATRIX-SUP-PORTED BRECCIA. OVER-PRINTED WITH WK MILL-ING AND STKWKD SILICIFIED	LOSS 199-201.4': MOD'LY SILICIFIED OVERPRINTING WK GRN CLAY ALT'N. MOD. DISS'D MARC. 201.4-205.5': STR. SILICA STKWK +/- WHT CLAY. MOD. MARC/PY DISSEMINATED, STRONG GRN CLAY ALT'N OF FRAGMTS. 205.5'-210.7': STR. GRN CLAY ALT'N. WHT CLAY VN MOD. MARC/PY DISS'D. 210.7-222.7': VARIABLE GRN CLAY ALT'N IN FRAGMTS MOD/STR SILICA VNLT STKWK. MOD. BARITE IN OPEN SPACE
B/MB 226.5'– 243' FAULT RELATED HETEROLITHIC BXA		222.7-226.6': PALE TAN-GRY RK FLOUR MATRIX-RICH, MATRIX-SUPPORTED BXA. HETEROLITHIC MIX CONT'D FROM ABOVE. BMB FRAGMTS COMMON. 226.6'-229.2': STR'LY SILICIFIED GREEN MUSH. MOTTLED TEXTURE OBLITERATED TECTONIC + HYDROTHERMAL BXA? 229.2-243.0': DECREASINGLY SILICIFIED, GRN TO YELLOW GRN MUSHY MIXED LITHOLOGY BRECCIA? MATRIX-SUPPORTED, TEXTURE-OBSCURED. BELOW ~ 233' IN-CREASING % OF PROBABLE FG PINK PORPHYRY FRAG-MENTS.	230 240			222.7'-226.6': MOD. WHT CLAY, WK PERVASIVE SILICA IN MATRIX. PY IN PHENO-CRYST SITES. 226.6'-227.5': STR. WHT CLAY IN SHEAR ZONE. STR. SHEARED SILICIFICATN BELOW. 227.5-229.2: STR/INT SILICIFICATN OVERPRINT-ING MOD. GRN CLAY ALT'N. MOD/WK DISS'D PY/MARC
		243' TD.	250			

ANALYTICAL DATA						
FROM	TO	W	Au	Ag	Au2	
	196.0					
196.0	197.5					
197.5	198.8					
198.8	201.4					
201.4	205.5					
205.5	210.7					
210.7	214.6					
214.6	218.6					
220.0	222.7					
222.7	226.6					
226.6	227.5					
227.5	229.2					
229.2	233.8					
233.8	239.0					
239.0	243.0					

229.2-243: STR. GRN & YELLOW GRN CLAY ALT'N. WK SILICIFICATN OVERPRINT. ~~SILICA~~ MODERATE SILICA + WHT CLAY VNLT STKWK. MOD. DISS'D MARC/PYRITE

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-225-98 DATE: 05/28/98 LOGGED BY: HBM 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)
0.0	5.0	100.0	100.0	72.0										
5.0	10.0	100.0	100.0	78.0										
10.0	20.0	101.0	101.0	90.0										
20.0	30.0	100.0	100.0	75.0										
30.0	40.0	100.0	100.0	80.0										
40.0	50.0	98.0	98.0	74.0										
50.0	55.0	100.0	100.0	50.0										
55.0	65.0	99.0	99.0	96.0										
65.0	70.0	102.0	102.0	54.0										
70.0	74.0	96.0	96.0	0										
74.0	75.0	85.0	85.0	0										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-225-98 DATE: 06/02/98 LOGGED BY: HDM PAGE 2 OF 5

DRILL RUN FROM	DRILL RUN TO	SOLID CORE RECOVERY (%)	TOTAL CORE RECOVERY (%)	RQD	ROCK STRENGTH DOWNHOLE DEPTH	ROCK STRENGTH POINT LOAD INDEX (psi)	FRACTURE DATA FRACTURE DENSITY/FT.	FRACTURE DATA AVG. ANGLE TO C.A.	FRACTURE DATA ROUGHNESS	FRACTURE DATA INFILL	DENSITY DATA DOWNHOLE DEPTH	DENSITY DATA SAMPLE WEIGHT (g)	DENSITY DATA DISPLACEMENT (cc)	DENSITY DATA DENSITY (g/cc)
75.0	80.0	80.0	80.0	34.0										
80.0	83.0	90.0	90.0	0										
83.0	90.0	107.1	107.1	78.6										
90.0	100.0	96.0	96.0	77.0										
100.0	110.0	100.0	100.0	72.0										
110.0	120.0	98.0	98.0	86.0										
120.0	130.0	100.0	100.0	85.0										
130.0	140.0	100.0	100.0	86.0										
140.0	150.0	92.0	92.0	50.0										
150.0	160.0	90.0	90.0	67.0										
160.0	170.0	97.0	97.0	78.0										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-225-98 DATE: 06/02/98 LOGGED BY: ABM PAGE 3 OF 3

DRILL RUN FROM	DRILL RUN TO	SOLID CORE RECOVERY (%)	TOTAL CORE RECOVERY (%)	RQD	ROCK STRENGTH DOWNHOLE DEPTH	ROCK STRENGTH POINT LOAD INDEX (psi)	FRACTURE DATA FRACTURE DENSITY/FT.	FRACTURE DATA AVG. ANGLE TO C.A.	FRACTURE DATA ROUGHNESS	FRACTURE DATA INFILL	DENSITY DATA DOWNHOLE DEPTH	DENSITY DATA SAMPLE WEIGHT (g)	DENSITY DATA DISPLACEMENT (cc)	DENSITY DATA DENSITY (g/cc)
170.0	180.0	97.0	97.0	82.0										
180.0	190.0	100.0	100.0	78.0										
190.0	200.0	92.0	92.0	60.0										
200.0	210.0	92.0	92.0	69.0										
210.0	220.0	86.0	86.0	36.0										
220.0	227.5	100.0	100.0	30.0										
227.5	232.0	88.9	88.9	44.4										
232.0	240.0	90.0	90.0	25.0										
240.0	243.0	76.7	76.7	50.0										
	TD													

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 0049122-IN
INVOICE DATE: 06/24/98

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-225-98	DEVELOPMENT	NET 30 - DUE IN U.S. DOLLARS

QUANTITY	DESCRIPTION	PRICE	AMOUNT
54	SAMPLES RECEIVED	.00	.00
53	JAW CRUSHING CHARGE	1.30	68.90
53	COARSE MILLING CHARGE	4.50	238.50
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
11	Au ANALYSES/GRAVIMETRIC	8.75	96.25
54	HYDROCHLORIC/NITRIC DIGESTION	2.00	108.00
54	Ag ANALYSES	1.00	54.00

86-~~[illegible]~~
5110-477
LDA

NET INVOICE:	1,230.85
LESS DISCOUNT:	246.17
FREIGHT:	.00
INVOICE TOTAL:	984.68

xAMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP049122

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-225-98 RECEIVED : 10 JUN 1998

No. SAMPLES : 54 REPORTED : 18 JUN 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 SP049122

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-225-98

REPORTED : 18 JUN 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-225-98 00-05	0.006			0.03
D-225-98 05-10	0.005			0.03
D-225-98 10.0-15.3	0.007			0.04
D-225-98 15.3-20.0	0.008			0.03
D-225-98 20.0-25.3	0.005	0.005		0.05
D-225-98 25.3-30.0	0.004			0.02
D-225-98 30.0-35.1	0.030			0.05
D-225-98 35.1-40.0	0.021			0.04
D-225-98 40-45	0.007			0.04
D-225-98 45-50	0.006			0.04
D-225-98 50-55	0.028			0.03
D-225-98 55.0-60.1	0.003			0.04
D-225-98 60.1-65.0	0.006			0.03
D-225-98 65-70	0.006			0.02
D-225-98 70-75	<0.001	<0.001		<0.02
D-225-98 75-80	<0.001			<0.02
D-225-98 80.0-84.7	0.007			0.03
D-225-98 84.7-90.0	0.013			0.05
D-225-98 90-95	0.002			0.02
D-225-98 95-100	0.005			<0.02
D-225-98 100.0-105.2	0.001			0.02
D-225-98 105.2-110.0	0.006			0.03
D-225-98 110-115	0.001			<0.02
D-225-98 115-120	<0.001			0.02
D-225-98 120-125	0.054		0.046	0.05

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP049122

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-225-98

REPORTED : 18 JUN 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-225-98 125-130	0.019			0.04
D-225-98 130-135	0.021			0.06
D-225-98 135-140	<0.001			0.02
D-225-98 140.0-144.2	0.011			0.04
D-225-98 144.2-150.0	0.335		0.314	0.51
D-225-98 150-155	0.502		0.496	0.64
D-225-98 155-160	0.228		0.170	0.49
D-225-98 160.0-163.5	0.043			0.13
D-225-98 163.5-168.2	0.009			0.06
D-225-98 168.2-174.5	0.220		0.163	0.05
D-225-98 174.5-180.0	0.302		0.275	0.61
D-225-98 180.0-184.8	0.768	1.484	0.905	0.33
D-225-98 184.8-190.0	0.212		0.198	0.08
D-225-98 190-196	0.351		0.343	0.82
D-225-98 196.0-197.5	0.192		0.196	0.08
D-225-98 197.5-198.8	0.033			0.04
D-225-98 198.8-201.4	0.004			0.03
D-225-98 201.4-205.5	0.004			0.07
D-225-98 205.5-210.7	0.004			0.06
D-225-98 210.7-214.6	0.005			0.09
D-225-98 214.6-218.6	0.004			0.06
D-225-98 220.0-222.7	0.005			0.08
D-225-98 222.7-226.6	0.007			0.06
D-225-98 226.6-227.5	0.003			0.08
D-225-98 227.5-229.2	0.163	0.157	0.190	0.51

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP049122

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-225-98

REPORTED : 18 JUN 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-225-98 229.2-233.8	0.002			0.08
D-225-98 233.8-239.0	0.002			0.04
D-225-98 239-243	0.002			0.04
33763	0.523			5.07

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ANALYSIS REPORT SP049122

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-225-98 RECEIVED : 10 JUN 1998

No. SAMPLES : 54 REPORTED : 18 JUN 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 SP049122

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-225-98

REPORTED : 18 JUN 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-225-98 00-05	0.006			0.03
D-225-98 05-10	0.005			0.03
D-225-98 10.0-15.3	0.007			0.04
D-225-98 15.3-20.0	0.008			0.03
D-225-98 20.0-25.3	0.005	0.005		0.05
D-225-98 25.3-30.0	0.004			0.02
D-225-98 30.0-35.1	0.030			0.05
D-225-98 35.1-40.0	0.021			0.04
D-225-98 40-45	0.007			0.04
D-225-98 45-50	0.006			0.04
D-225-98 50-55	0.028			0.03
D-225-98 55.0-60.1	0.003			0.04
D-225-98 60.1-65.0	0.006			0.03
D-225-98 65-70	0.006			0.02
D-225-98 70-75	<0.001	<0.001		<0.02
D-225-98 75-80	<0.001			<0.02
D-225-98 80.0-84.7	0.007			0.03
D-225-98 84.7-90.0	0.013			0.05
D-225-98 90-95	0.002			0.02
D-225-98 95-100	0.005			<0.02
D-225-98 100.0-105.2	0.001			0.02
D-225-98 105.2-110.0	0.006			0.03
D-225-98 110-115	0.001			<0.02
D-225-98 115-120	<0.001			0.02
D-225-98 120-125	0.054		0.046	0.05

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP049122

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-225-98

REPORTED : 18 JUN 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-225-98 125-130	0.019			0.04
D-225-98 130-135	0.021			0.06
D-225-98 135-140	<0.001			0.02
D-225-98 140.0-144.2	0.011			0.04
D-225-98 144.2-150.0	0.335		0.314	0.51
D-225-98 150-155	0.502		0.496	0.64
D-225-98 155-160	0.228		0.170	0.49
D-225-98 160.0-163.5	0.043			0.13
D-225-98 163.5-168.2	0.009			0.06
D-225-98 168.2-174.5	0.220		0.163	0.05
D-225-98 174.5-180.0	0.302		0.275	0.61
D-225-98 180.0-184.8	0.768	1.484	0.905	0.33
D-225-98 184.8-190.0	0.212		0.198	0.08
D-225-98 190-196	0.351		0.343	0.82
D-225-98 196.0-197.5	0.192		0.196	0.08
D-225-98 197.5-198.8	0.033			0.04
D-225-98 198.8-201.4	0.004			0.03
D-225-98 201.4-205.5	0.004			0.07
D-225-98 205.5-210.7	0.004			0.06
D-225-98 210.7-214.6	0.005			0.09
D-225-98 214.6-218.6	0.004			0.06
D-225-98 220.0-222.7	0.005			0.08
D-225-98 222.7-226.6	0.007			0.06
D-225-98 226.6-227.5	0.003			0.08
D-225-98 227.5-229.2	0.163	0.157	0.190	0.51

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP049122

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-225-98

REPORTED : 18 JUN 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-225-98 229.2-233.8	0.002			0.08
D-225-98 233.8-239.0	0.002			0.04
D-225-98 239-243	0.002			0.04
33763	0.523			5.07

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP049122

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-225-98 RECEIVED : 10 JUN 1998

No. SAMPLES : 54 REPORTED : 18 JUN 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

PROVISIONAL REPORT SP049122

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-225-98

REPORTED : 18 JUN 1998

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
D-225-98 00-05	0.006			0.03
D-225-98 05-10	0.005			0.03
D-225-98 10.0-15.3	0.007			0.04
D-225-98 15.3-20.0	0.008			0.03
D-225-98 20.0-25.3	0.005	0.005		0.05
D-225-98 25.3-30.0	0.004			0.02
D-225-98 30.0-35.1	0.030			0.05
D-225-98 35.1-40.0	0.021			0.04
D-225-98 40-45	0.007			0.04
D-225-98 45-50	0.006			0.04
D-225-98 50-55	0.028			0.03
D-225-98 55.0-60.1	0.003			0.04
D-225-98 60.1-65.0	0.006			0.03
D-225-98 65-70	0.006			0.02
D-225-98 70-75	<0.001	<0.001		<0.02
D-225-98 75-80	<0.001			<0.02
D-225-98 80.0-84.7	0.007			0.03
D-225-98 84.7-90.0	0.013			0.05
D-225-98 90-95	0.002			0.02
D-225-98 95-100	0.005			<0.02
D-225-98 100.0-105.2	0.001			0.02
D-225-98 105.2-110.0	0.006			0.03
D-225-98 110-115	0.001			<0.02
D-225-98 115-120	<0.001			0.02
D-225-98 120-125	0.054		0.046	0.05

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP049122

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-225-98

REPORTED : 18 JUN 1998

SAMPLES		Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)	
D-225-98 125-130		0.019			0.04	
D-225-98 130-135		0.021			0.06	
D-225-98 135-140		<0.001			0.02	144.2-160' = 15.8'
D-225-98 140.0-144.2		0.011			0.04	@
D-225-98 144.2-150.0	5.8	0.335		0.314	0.51	
D-225-98 150-155	5	0.502		0.496	0.64	0.354 Au
D-225-98 155-160	5	0.228		0.170	0.49	0.55 Ag
D-225-98 160.0-163.5		0.043			0.13	
D-225-98 163.5-168.2		0.009			0.06	168.2 - 137.5 = 29.3'
D-225-98 168.2-174.5	6.3	0.220		0.163	0.05	
D-225-98 174.5-180.0	5.5	0.302		0.275	0.61	0.349 Au
D-225-98 180.0-184.8	4.8	0.768	1.484	0.905	0.33	0.37 Ag
D-225-98 184.8-190.0	5.2	0.212		0.198	0.08	
D-225-98 190-196	6	0.351		0.343	0.82	
D-225-98 196.0-197.5	1.5	0.192		0.196	0.08	
D-225-98 197.5-198.8		0.033			0.04	
D-225-98 198.8-201.4		0.004			0.03	
D-225-98 201.4-205.5		0.004			0.07	
D-225-98 205.5-210.7		0.004			0.06	
D-225-98 210.7-214.6		0.005			0.09	
D-225-98 214.6-218.6		0.004			0.06	
D-225-98 220.0-222.7		0.005			0.08	
D-225-98 222.7-226.6		0.007			0.06	
D-225-98 226.6-227.5		0.003			0.08	
D-225-98 227.5-229.2		0.163	0.157	0.190	0.51	

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP049122

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-225-98

REPORTED : 18 JUN 1998

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
D-225-98 229.2-233.8	0.002			0.08
D-225-98 233.8-239.0	0.002			0.04
D-225-98 239-243	0.002			0.04
33763	0.523			5.07

SP

SUBMITTAL FORM

American Assay Laboratories

Geochemical • Environmental • Metallurgical

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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
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: 06/09/98 Number of Samples: 53

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

D-225-98 SAMPLE IDENTIFICATION			TYPE	ELEMENTS REQUIRED
0.0-5.0	75.0-80.0		CORE	AU-AG ACCORDING TO ROSEBUD
5.0-10.0	80.0-84.7			MINE PROTOCOLS
10.0-15.3	84.7-90.0	150.0-155.0		
15.3-20.0	90.0-95.0	155.0-160.0		205.5-210.7
20.0-25.3	95.0-100.0	160.0-163.5		210.7-214.6
25.3-30.0	100.0-105.2	163.5-168.2		214.6-218.6
30.0-35.1	105.2-110.0	168.2-174.5		~~218.6~~
35.1-40.0	110.0-115.0	174.5-180.0		220.0-222.7
40.0-45.0	115.0-120.0	180.0-184.8		222.7-226.6
45.0-50.0	120.0-125.0	184.8-190.0		226.6-227.3
50.0-55.0	125.0-130.0	190.0-196.0		227.3-229.2
55.0-60.1	130.0-135.0	196.0-197.5		229.2-233.8
60.1-65.0	135.0-140.0	197.5-198.8		233.8-239.0
65.0-70.0	140.0-144.2	198.8-201.4		239.0-243.0
70.0-75.0	144.2-150.0	201.4-205.5		

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

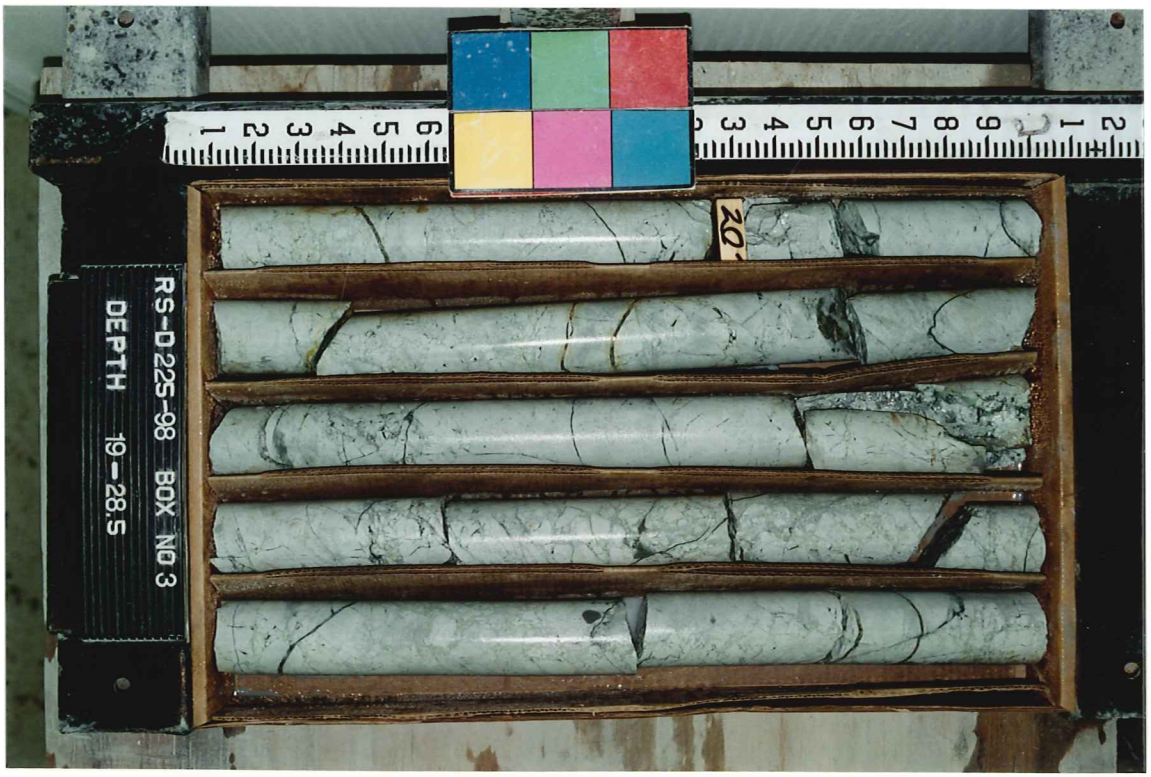
Comments:

CLIENT FILE COPY

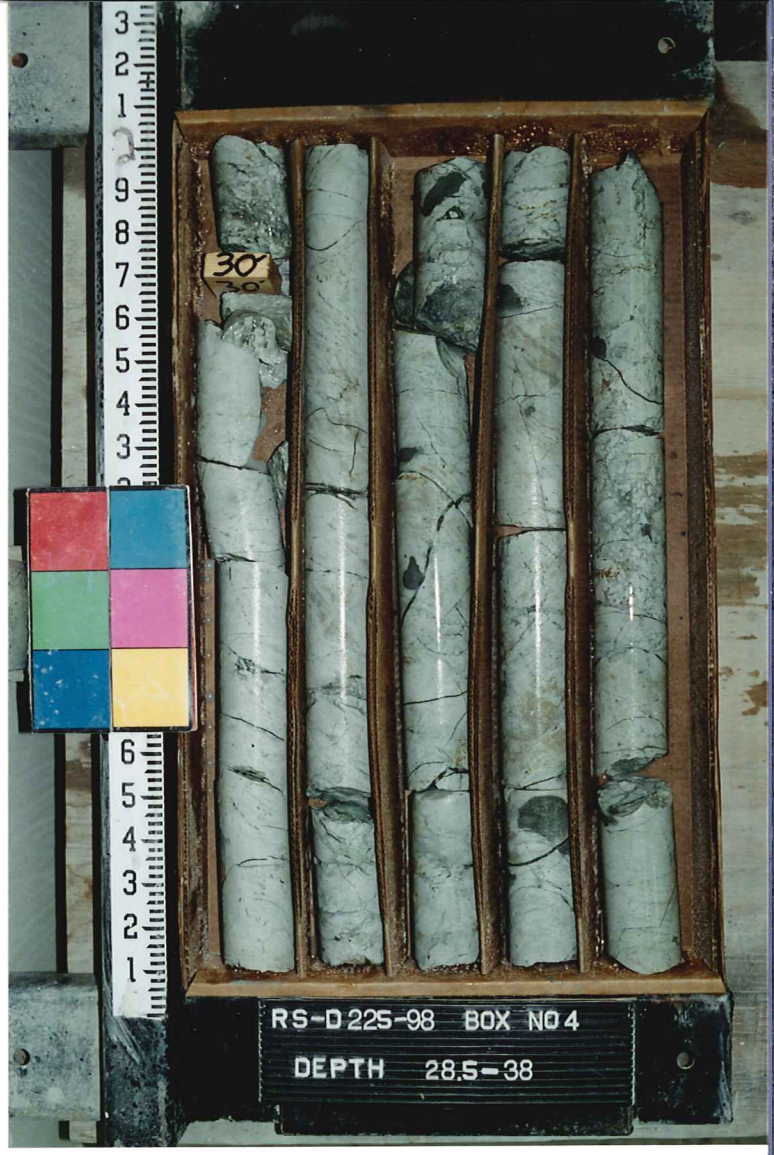
D-225-98	0	12	305.7
	120	11.5	304.7
	240	11	304.4

10'
RS-D 225-98 BOX NO 2
DEPTH 9.5 - 19

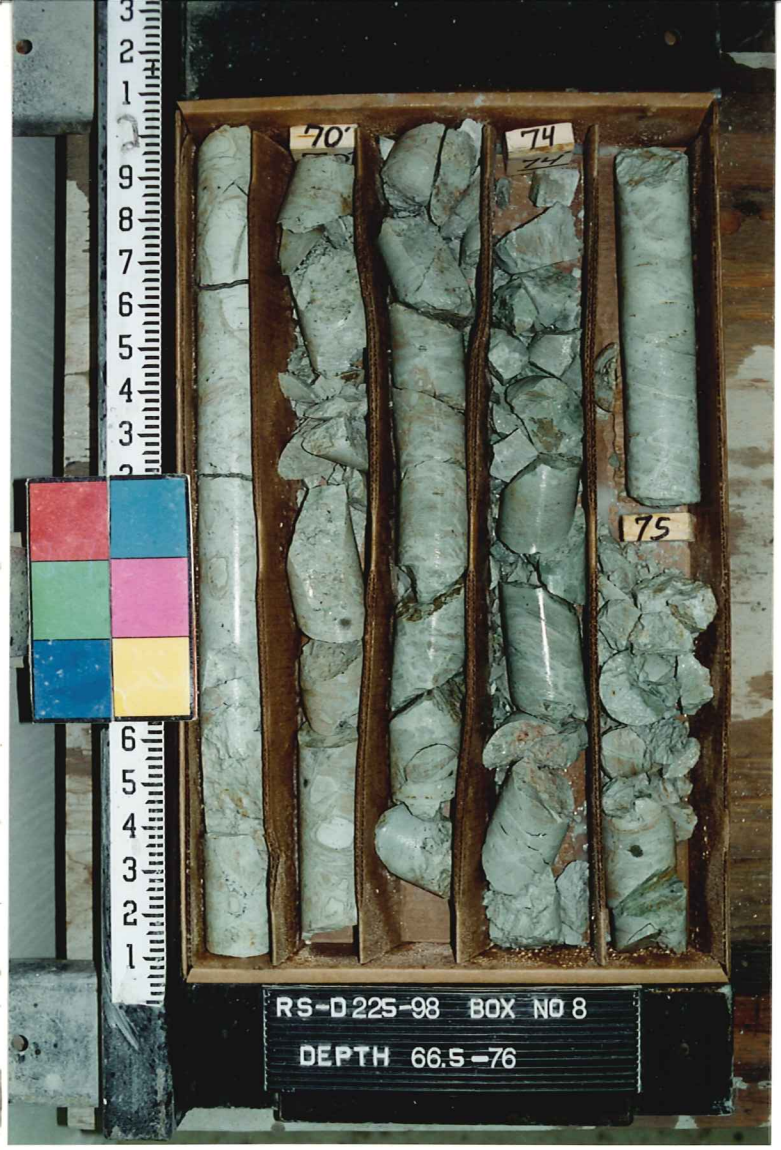
5'
RS-D 225-98 BOX NO 1
DEPTH 0 - 9.5


20'
RS-D 225-98 BOX NO 3
DEPTH 19 - 28.5

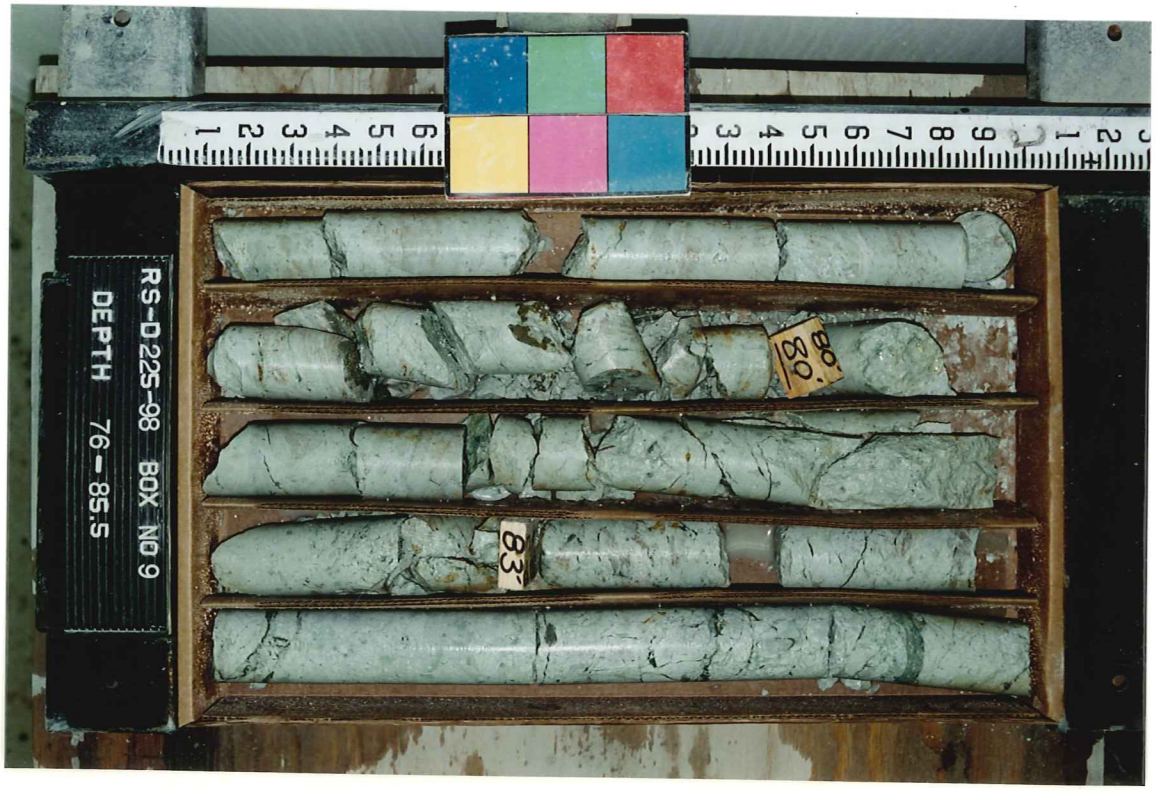
40
RS-D 225-98 BOX NO 5
DEPTH 38-47.5


30
RS-D 225-98 BOX NO 4
DEPTH 28.5-38

RS-D 225-98 BOX NO 6
DEPTH 47.5-57


70
74
75
RS-D 225-98 BOX NO 8
DEPTH 66.5-76

65
RS-D 225-98 BOX NO 7
DEPTH 57-66.5


80
83
RS-D 225-98 BOX NO 9
DEPTH 76-85.5

100'
RS-D 225-98 BOX NO 11
DEPTH 95-105

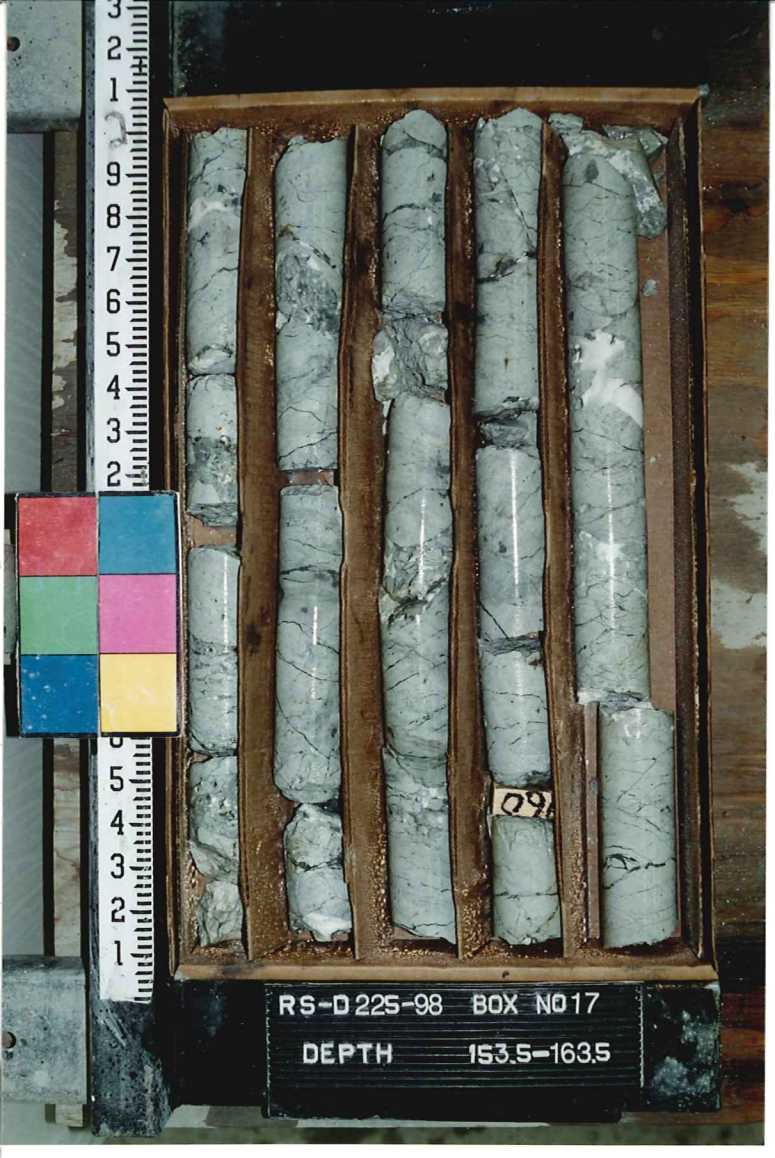
90'
RS-D 225-98 BOX NO 10
DEPTH 85.5-95

110
RS-D 225-98 BOX NO 12
DEPTH 105-115

130
RS-D 225-98 BOX NO 14
DEPTH 124.5-134

120
RS-D 225-98 BOX NO 13
DEPTH 115-124.5

140
RS-D 225-98 BOX NO 15
DEPTH 134-143.5


RS-D 225-98 BOX NO 17
DEPTH 153.5-163.5

RS-D 225-98 BOX NO 16
DEPTH 143.5-153.5

RS-D 225-98 BOX NO 18
DEPTH 163.5-173

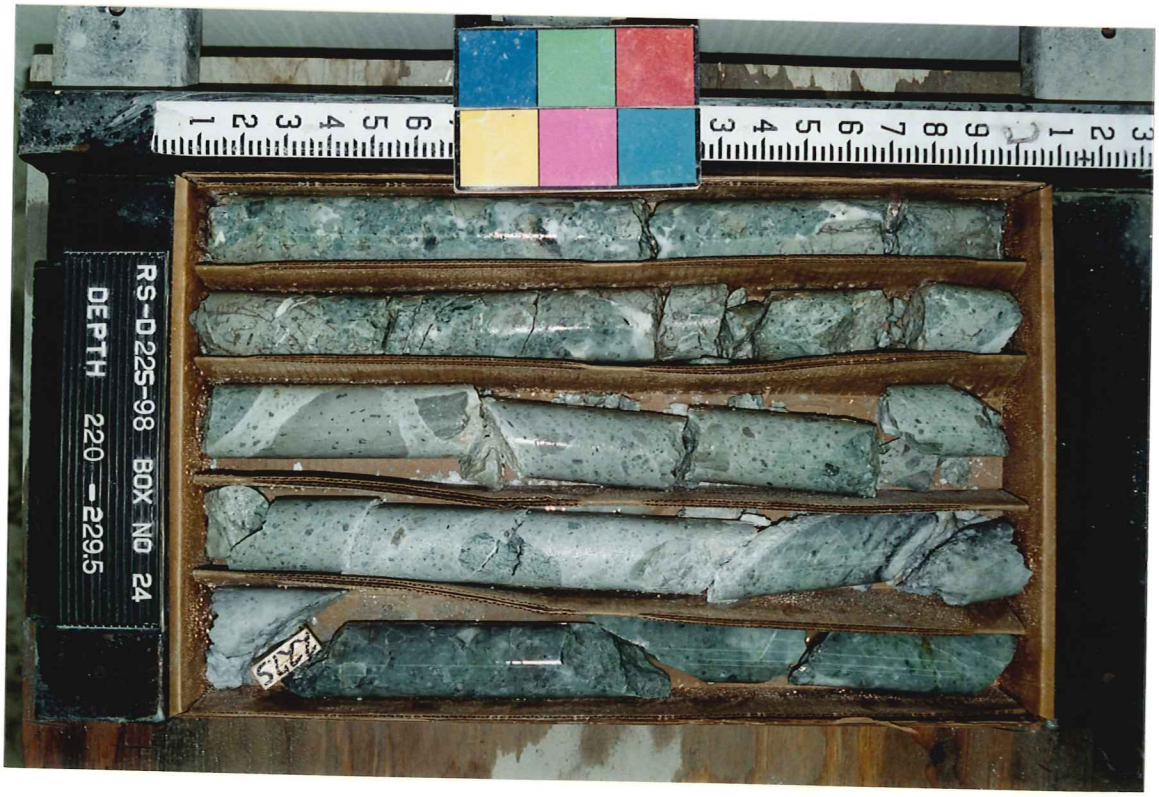
RS-D 225-98 BOX NO 20
DEPTH 182.5-192
190

RS-D 225-98 BOX NO 19
DEPTH 173-182.5
181

RS-D 225-98 BOX NO 21
DEPTH 192-201.5

RS-D 225-98 BOX NO 23
DEPTH 211-220

RS-D 225-98 BOX NO 22
DEPTH 201.5-211

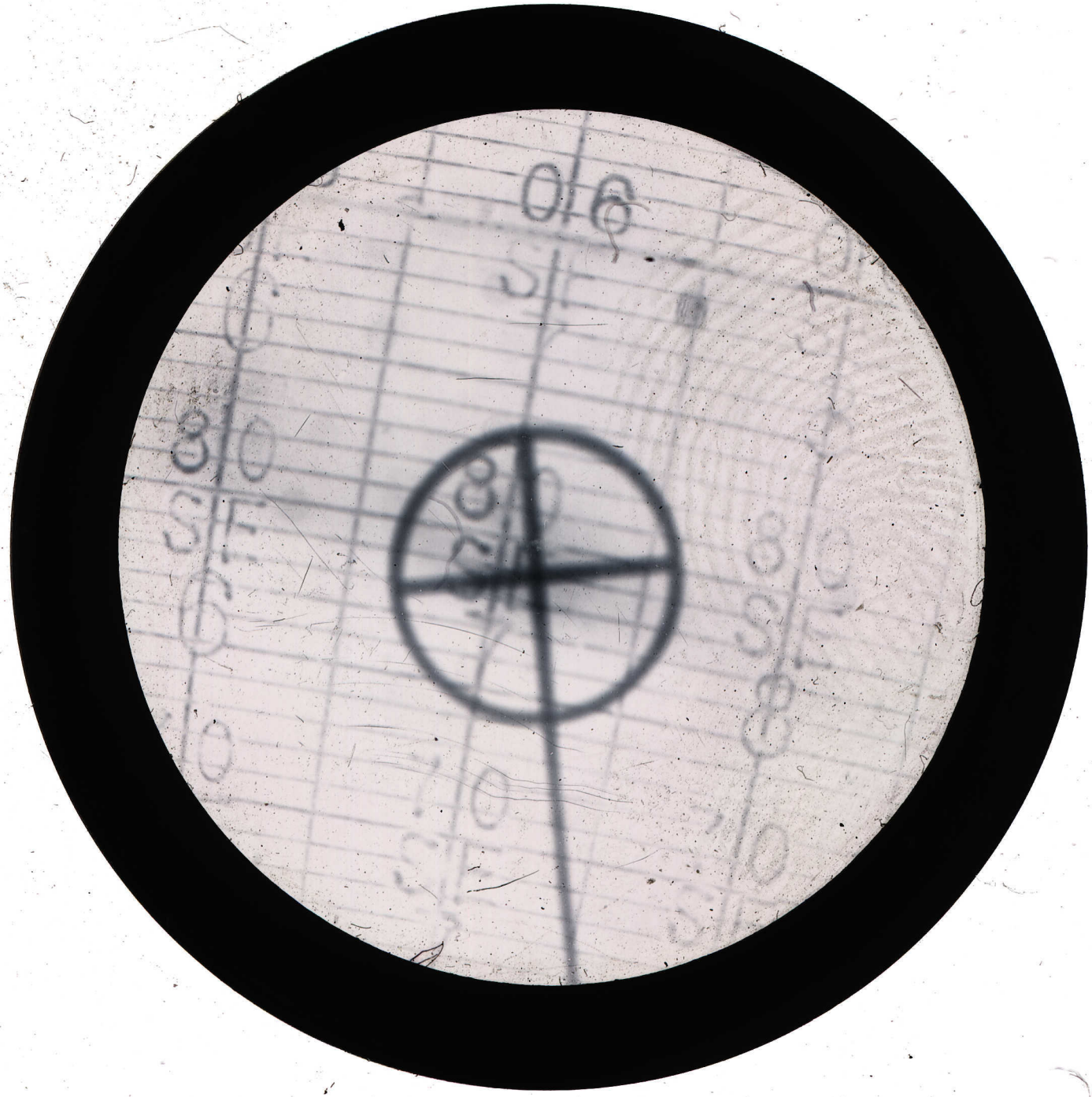

RS-D 225-98 BOX NO 24
DEPTH 220 - 229.5

243
TD
240'
RS-D 225-98 BOX NO 26
DEPTH 239.5- 243 TD

232
RS-D 225-98 BOX NO 25
DEPTH 229.5-239.5

SINGLE SHOT
PHOTO DISC RECORD

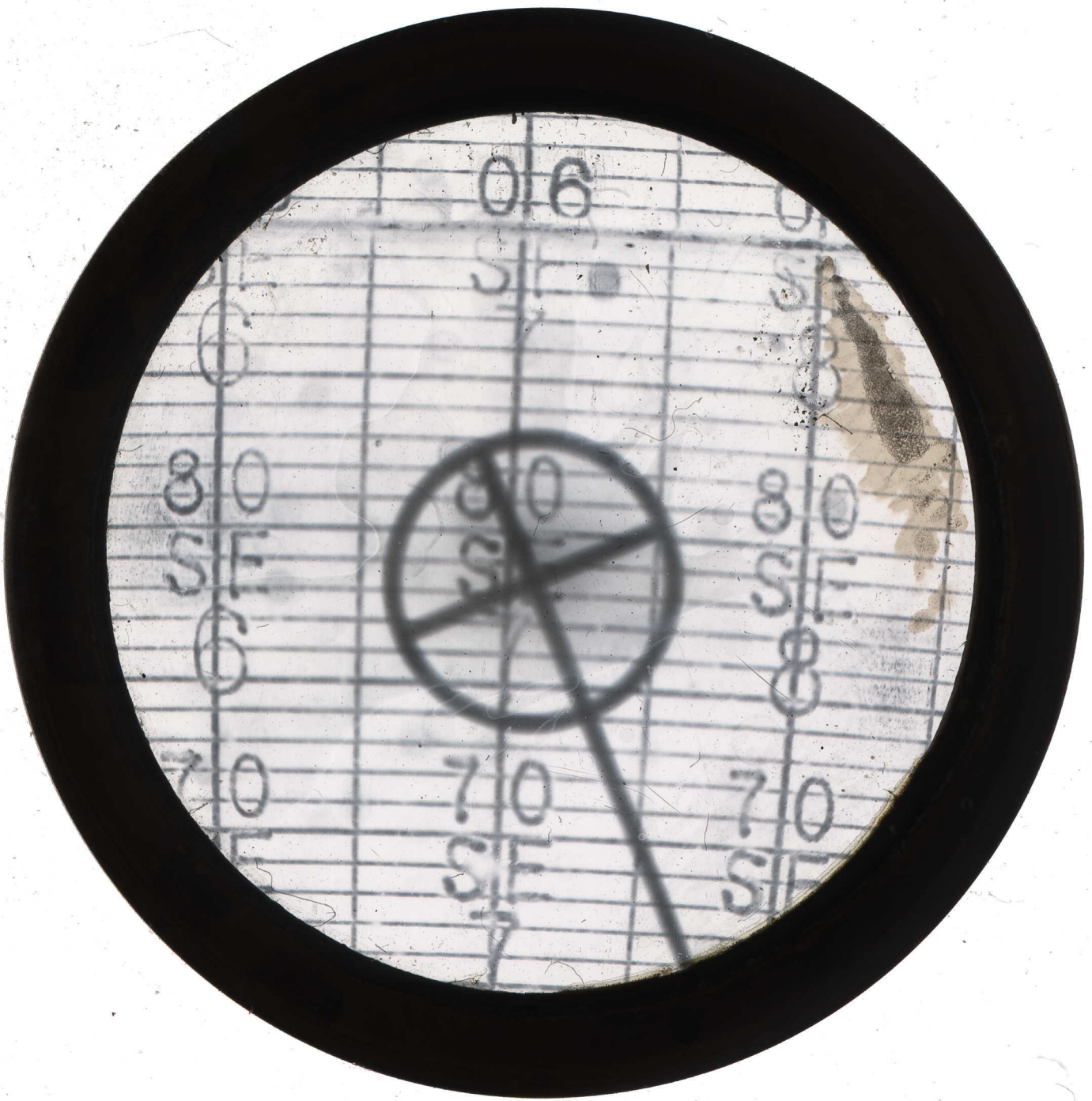
COMPANY Hecla
WELL NAME D-225-98
LEASE
TAKEN BY Hunter
DEPTH 240'
DATE 4-10-98
DRIFT ANGLE
DIRECTION
TYPE
JOB NO. 1
HI-1408



SINGLE SHOT
PHOTO DISC RECORD

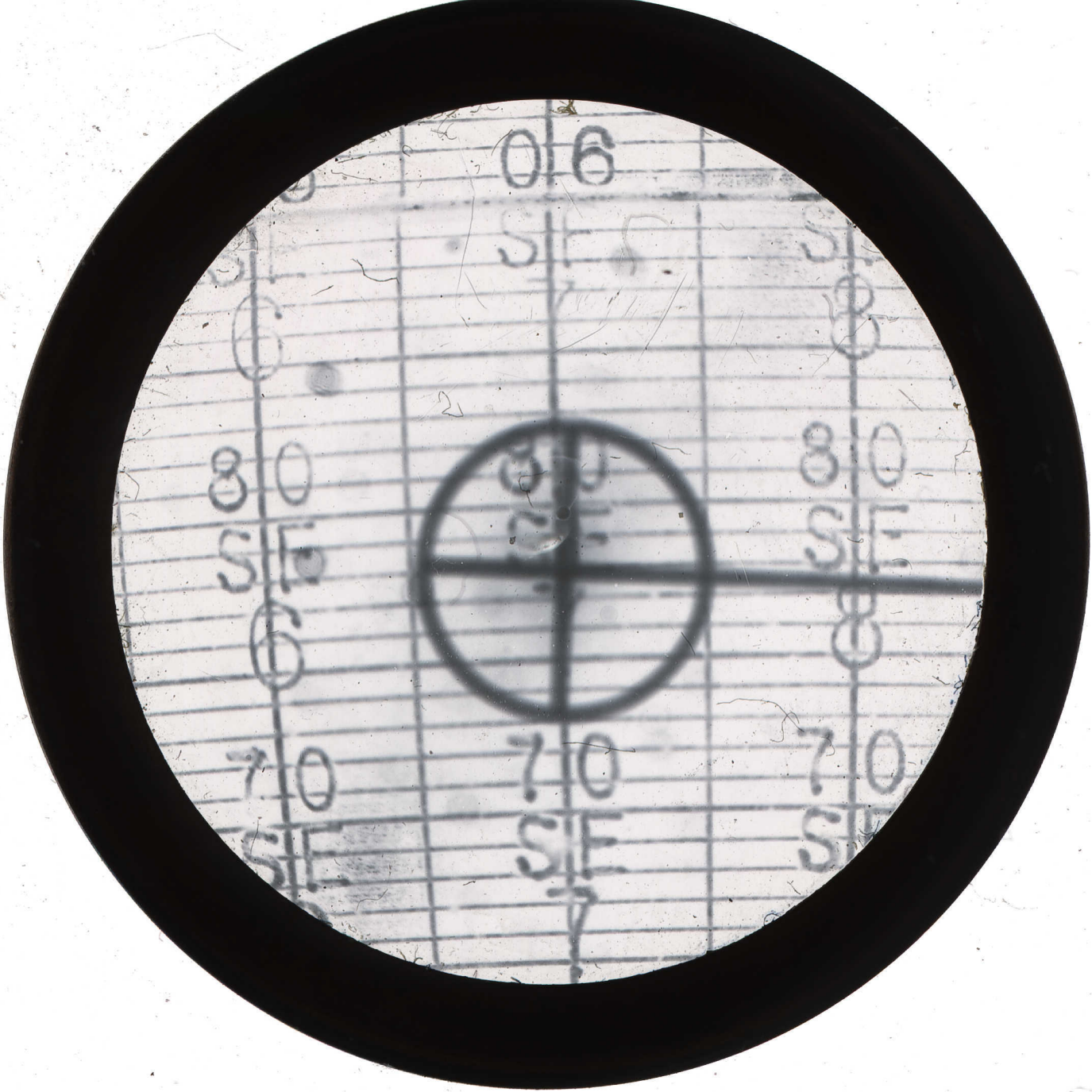
COMPANY Hecla
WELL NAME D-225-98
LEASE
TAKEN BY Hunter
DEPTH 120'
DATE 4-10-98
DRIFT ANGLE
DIRECTION
TYPE
JOB NO. 1

HI-1408


06
80
SF
70
SF

SINGLE SHOT
PHOTO DISC RECORD

COMPANY Hecla
WELL NAME D-225-98
LEASE
TAKEN BY Hunter
DEPTH Collar
DATE 4-10-98
DRIFT ANGLE
DIRECTION
TYPE
JOB NO. 1
HI-1408


06
SE
80
SE
70
SE