60001112

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-232-98
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 250' receipt; handwritten notes; downhole camera images 30p 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-232-98

60001112 4010

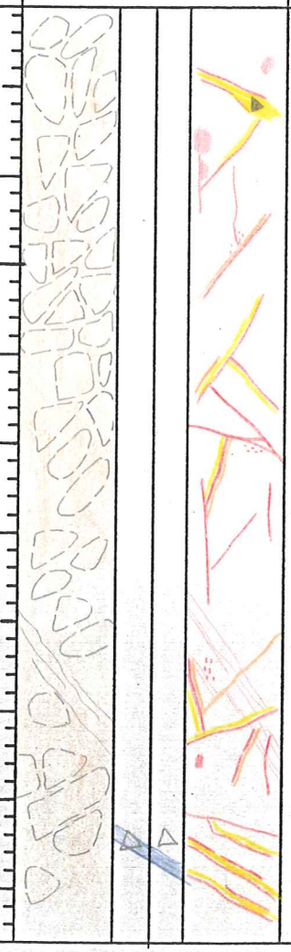
6000 1112

Hecla MINING COMPANY

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

ROSEBUD PROJECT
DIAMOND DRILL LOG

HOLE NUMBER	D-232-98	LOCATION	STOPE 43 ACCESS, EAST	REMARKS	
PAGE 1 OF 4		NORTHING			
DATE	06/08/98	EASTING			
LOGGED BY	HBM	ELEVATION			
SCALE	1"=10'	AZIMUTH	N60°W		
TOTAL DEPTH	250'	INCLINATION	-30°		

LITH.	OX / RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
0.0-250.0 DOZER		0.0': WELL-DEVELOPED MOSAIC-TEXTURED AUTOBRECCIA IN LIGHT GRAY DOZER. SUB-ANGULAR, DOMINANTLY PEBBLE-SIZED FRAGMENTS ARE HIGHLIGHTED BY FAINT RUDDY FeOx STAINING. CONTINUOUS* TO 58.6'	0, 10, 20, 30, 40, 50			0.0'-~46': MODERATE PY BLEBBING IN WALLRK, WK QUARTZ + MARC/PY VNLTS +/- TR. LATE WHT CLAY. MOD. FAINT RUDDY STAINING. LATE BRASSY PY COATS MARC BLADES THRU ~35 ~46.0'-53.7': STR. SILICA + MARC CEMENTED, OPEN SPACE RUBBLE VEINS WITH TRACE TO WK LATE WHT CLAY IN VUGS. CONTD TR/WK WALLRK ARGILLIZATION & BLCHING.

ANALYTICAL DATA						
FROM	TO	W	Au	Ag	Au2	Ag
0.0	4.0					
4.0	9.0					
9.0	14.0					
14.0	19.0					
19.0	24.0					
24.0	29.0					
29.0	34.0					
34.0	39.0					
39.0	44.0					
44.0	49.0					

HOLE NUMBER D-232-98 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- 250.0' DOZER		58.7-61.6': STR. ALTERATN AND VN BRECCIA OBSCURES ORIGINAL ROCK TEXTURE. PROBABLY AUTOBRECCIA. 61.6'- ~70': CONT'D CRACKLE TO MOSAIC-TEXTURED AUTOBRECCIA PICKED OUT BY FAINT RUDDY STAINING OF FRAGMTS. ~70': AUTOBXA BECOMES DISCONTINUOUS A/O WKLY DEVELOPED. INTERVALS OF MASSIVE OR BANDED DOZER BTWN BXA'D STRETCHES. CONT'D WK/MOD FeOx MOTTLING.	50 60 70 80 90 100 110 120	35 40 40		58.7-61.6': STR'LY ARGILLIZED AND LACED WITH FINE SILICA-CEMENTED BXA VNS. STR./MOD. BLCHING WITH ARGILLIZATION. 61.6- ~73': WK WISPY PY VNLTS MOD. DISS'D PY & BLEBS IN WALLRK. TRACE ARGILLIZATN & BLCHING. ~73'-78': MOD. QZ+MARC/Py +/- WHT CLAY VNLTS. CONT'D WK ARGILLIZED & BLCH'D WALLRK W/ FAINT FeOx STAINING. WK PY FLECKS DISS'D IN AUTOBRECCIA MATRIX. ~78'-~91': WK WISPY PY VNLTS & PY FLECKS IN AUTOBXA MATRIX. ~91'-101': MOD TO STR. QZ+ MARC +/- L. WHT CLAY VNS & BRECCIA VNS. TRACE WALLRK ARGILLIZATN & BLCHING. 101 - 130.0': MOD/WK QZ+ MARC +/- L. WHT CLAY VNS & BRECCIA VNS. WHT CLAY INCREASED BELOW 115'. CONT'D TRACE WALLRK ARGILLIZATN & BLCHING	49.0 53.7 58.7 61.6 64.7 69.9 74.9 80.0 85.3 90.0 95.0 100.0 105.0 110.0 115.2	53.7 58.7 61.6 64.7 69.9 74.9 80.0 85.3 90.0 95.0 100.0 105.0 110.0 115.2 120.0					

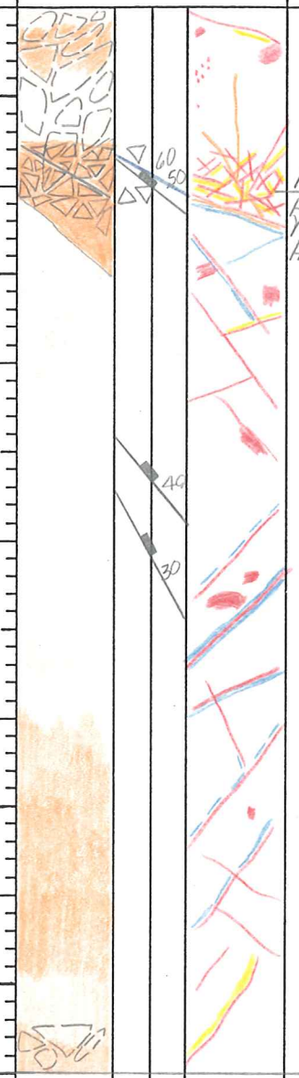
HOLE NUMBER D-232-98 PAGE 3 OF 4

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
0.0'–250.0 DOZER		FROM ~125': ~80% MASSIVE, MOTTLED TAN, APHANITIC DOZER ~20% FAINT MOSAIC-TEXTURED ~~PSEUD~~ AUTO-BRECCIA PICKED OUT BY BRNISH FeOx STAINING. ~149': FAINT GRNISH TINGE PICKS UP IN WALLRK.	120 130 140 150 160 170 180 190			130.0'–~180': WK SILICA+ MARC/PY +/- WHT CLAY VNS MOD. BRN FeOx STAINING BEGINNING ~124'. TRACE WALLRK ARGILLIZATION.

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2
120.0	124.9				
124.9	130.0				
130.0	134.8				
134.8	140.0				
140.0	145.0				
145.0	150.0				
150.0	155.0				
155.0	160.0				
160.0	165.0				
165.0	170.0				
170.0	175.0				
175.0	180.0				
180.0	185.0				

HOLE NUMBER D-232-98 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 - 250.0' DOZER		200.4' - 250.0' = MASSIVE, TAN-GRY APHANITIC, APHYRIC DOZER.	190 200 210 220 230 240 250		198.5 - 200.4': CLAYSHOT, PY + SILICA CEMENTED MONOLITHIC CRACKLE BXA HYDROTHERMAL.	~180.0 - 191.4': SILICA + MARC/PY +/- WHT CLAY VNS INCREASED TO MOD.	185.0	191.4				
						191.4' - 193.8': MOD. ARGILLIZATION AND STR. BLCHING, WK SILICA + PYRITE VNING	191.4	193.8				
						193.8' - 197.9': WK SILICA + PYRITE VNING. TRACE ARGILLIC + BLCHING.	193.8	197.9				
						197.9 - 201.4': STR. PUNKY ARGILLIZATION, WK BLCHING. STR. PY + WK SILICA CEMENT.	197.9	200.4				
						201.4': WK SILICA + MARC/PY +/- WHT CLAY & CALCITE. CALCITE PICKS UP BELOW 201.4'.	200.4	205.0				
							205.0	210.0				
							210.0	215.0				
						201.4' - 215.0': WK/MOD. PY BLEBBING. WK PY + SILICA VNLTS. TRACE ARGILLIZATION & BLCHING.	215.0	220.0				
							220.0	225.0				
						215.0' - ~226': INTERMITTENT WK → MOD. ARGILLIZATN & BLCHING OF WALLROCK, CONT'D WK VNLTS & WK/MOD. PY BLEBBING.	225.0	230.0				
						~226' - ~230': AS FROM 201.0 - 215.0'.	230.0	235.0				
						~230' - 250': MOD. ARGILLIZATION & BLCHING OF WALLROCK. WK PY + SILICA +/- CALCITE VNLTS.	235.0	240.0				
							240.0	244.9				
		T.D. 250'					244.9	250.0				

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-232-98 DATE: 06/08/98 LOGGED BY: ABM PAGE 1 OF

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	4.0	97.5	97.5	45.0										
4.0	9.0	96.0	96.0	90.0										
9.0	14.0	100.0	100.0	98.0										
14.0	19.0	94.0	94.0	52.0										
19.0	24.0	106.0	106.0	106.0										
24.0	29.0	100.0	100.0	90.0										
29.0	34.0	106.0	106.0	92.0										
34.0	39.0	100.0	100.0	84.0										
39.0	44.0	96.0	96.0	48.0										
44.0	49.0	100.0	100.0	82.0										
49.0	53.0	100.0	100.0	42.0										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-232-98 DATE: 06/08/98 LOGGED BY: HBM PAGE 2 OF ____

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)
53.0	58.0	100.0	100.0	72.0										
58.0	63.0	98.0	98.0	32.0										
63.0	68.0	92.0	92.0	78.0										
68.0	72.5	95.6	95.6	84.4										
72.5	77.5	86.0	86.0	62.0										
77.5	80.0	100.0	100.0	84.0										
80.0	83.5	100.0	100.0	65.7										
83.5	87.0	111.4	111.4	54.3										
87.0	90.0	90.0	90.0	76.7										
90.0	95.0	96.0	96.0	94.0										
95.0	100.0	94.0	94.0	58.0										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-232-98 DATE: 06/08/98 LOGGED BY: ABM PAGE 3 OF 4

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
100.0	105.0	100.0	100.0	60.0										
105.0	110.0	102.0	102.0	90.0										
110.0	120.0	96.0	96.0	72.0										
120.0	130.0	100.0	100.0	61.0										
130.0	140.0	100.0	100.0	83.0										
140.0	150.0	102.0	102.0	87.0										
150.0	160.0	92.0	92.0	64.0										
160.0	170.0	90.0	90.0	78.0										
170.0	175.0	112.0	112.0	72.0										
175.0	185.0	106.0	106.0	51.0										
185.0	193.5	74.1	74.1	20.0										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-232-98 DATE: 06/09/98 LOGGED BY: HDM PAGE 4 OF 4

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)
193.5	200.0	100.0	100.0	33.8										
200.0	210.0	100.0	100.0	56.0										
210.0	220.0	99.0	99.0	55.0										
220.0	230.0	100.0	100.0	84.0										
230.0	240.0	103.0	103.0	99.0										
240.0	250.0	100.0	100.0	91.0										
	TD.													

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP049152

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

HECLA MINING COMPANY

COPIES TO : KURT ALLEN

:

:

:

NSI

CLIENT REFERENCE No: D-232-98 RECEIVED : 15 JUN 1998

No. SAMPLES : 53 REPORTED : 19 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

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP049152

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-232-98

REPORTED : 19 JUN 1998

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
D-232-98 0-4	0.003			0.02
D-232-98 4-9	0.001			<0.02
D-232-98 9-14	0.001			0.02
D-232-98 14-19	0.011	0.008		0.02
D-232-98 19-24	0.011			0.06
D-232-98 24-29	0.031	0.021		0.07
D-232-98 29-34	0.003			0.04
D-232-98 34-39	0.004			0.06
D-232-98 39-44	0.008			0.04
D-232-98 44-49	0.030	0.009		0.07
D-232-98 49.0-53.7	0.020			0.17
D-232-98 53.7-58.7	0.015			0.05
D-232-98 58.7-61.6	0.014			0.11
D-232-98 61.6-64.7	0.004			0.05
D-232-98 64.7-69.9	0.011			0.05
D-232-98 69.9-74.9	0.011			0.05
D-232-98 74.9-80.0	0.025	0.033		0.08
D-232-98 80.0-85.3	0.012			0.06
D-232-98 85.3-90.0	0.008			0.05
D-232-98 90-95	0.014			0.05
D-232-98 95-100	0.060			0.05
D-232-98 100-105	0.014	0.022		0.03
D-232-98 105-110	0.011			0.05
D-232-98 110.0-115.2	0.008			0.05
D-232-98 115.2-120.0	0.005			0.02

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP049152

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-232-98

REPORTED : 19 JUN 1998

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
D-232-98 120.0-124.9	0.008			0.05
D-232-98 124.9-130.0	0.098		0.101	0.10
D-232-98 130.0-134.8	0.026			0.27
D-232-98 134.8-140.0	0.008			0.05
D-232-98 140-145	0.003			0.02
D-232-98 145-150	0.008	0.009		0.05
D-232-98 150-155	0.011			0.03
D-232-98 155-160	0.006			0.02
D-232-98 160-165	0.012			0.04
D-232-98 165-170	0.044	0.056		0.03
D-232-98 170-175	0.012			0.03
D-232-98 175-180	0.005			0.03
D-232-98 180-185	0.007			0.05
D-232-98 185.0-191.4	0.002			0.02
D-232-98 191.4-193.8	0.027	0.020		0.06
D-232-98 193.8-197.9	0.004			0.04
D-232-98 197.9-200.4	0.015			0.11
D-232-98 200.4-205.0	0.003			0.04
D-232-98 205-210	0.004			0.05
D-232-98 210-215	0.001			<0.02
D-232-98 215-220	0.082	0.062	0.109	0.06
D-232-98 220-225	0.039			0.04
D-232-98 225-230	0.011			0.03
D-232-98 230-235	0.005			0.05
D-232-98 235-240	0.006			0.06

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP049152

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-232-98

REPORTED : 19 JUN 1998

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
D-232-98 240.0-244.9	0.073		0.066	0.10
D-232-98 244.9-250.0	0.033			0.11
33775	0.514			2.93

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 0049152-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-232-98	DEVELOPMENT	NET 30 - DUE IN U.S. DOLLARS

QUANTITY	DESCRIPTION	PRICE	AMOUNT
53	SAMPLES RECEIVED	.00	.00
52	JAW CRUSHING CHARGE	1.30	67.60
52	COARSE MILLING CHARGE	4.50	234.00
52	SPLITTING CHARGE	2.40	124.80
52	RING MILLING CHARGE	2.00	104.00
53	Au (1 A.T. FIRE ASSAY)	8.00	424.00
3	Au ANALYSES/GRAVIMETRIC	8.75	26.25
53	HYDROCHLORIC/NITRIC DIGESTION	2.00	106.00
53	Ag ANALYSES	1.00	53.00

86-5110-477
EDA

NET INVOICE:	1,139.65
LESS DISCOUNT:	227.93
FREIGHT:	.00
INVOICE TOTAL:	911.72

xAMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP049152

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-232-98 RECEIVED : 15 JUN 1998

No. SAMPLES : 53 REPORTED : 22 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 SP049152

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-232-98

REPORTED : 22 JUN 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-232-98 0-4	0.003			0.02
D-232-98 4-9	0.001			<0.02
D-232-98 9-14	0.001			0.02
D-232-98 14-19	0.011	0.008		0.02
D-232-98 19-24	0.011			0.06
D-232-98 24-29	0.031	0.021		0.07
D-232-98 29-34	0.003			0.04
D-232-98 34-39	0.004			0.06
D-232-98 39-44	0.008			0.04
D-232-98 44-49	0.010	0.009		0.07
D-232-98 49.0-53.7	0.020			0.17
D-232-98 53.7-58.7	0.015			0.05
D-232-98 58.7-61.6	0.014			0.11
D-232-98 61.6-64.7	0.004			0.05
D-232-98 64.7-69.9	0.011			0.05
D-232-98 69.9-74.9	0.011			0.05
D-232-98 74.9-80.0	0.025	0.033		0.08
D-232-98 80.0-85.3	0.012			0.06
D-232-98 85.3-90.0	0.008			0.05
D-232-98 90-95	0.014			0.05
D-232-98 95-100	0.060			0.05
D-232-98 100-105	0.014	0.022		0.03
D-232-98 105-110	0.011			0.05
D-232-98 110.0-115.2	0.008			0.05
D-232-98 115.2-120.0	0.005			0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP049152

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-232-98

REPORTED : 22 JUN 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-232-98 120.0-124.9	0.008			0.05
D-232-98 124.9-130.0	0.098		0.101	0.10
D-232-98 130.0-134.8	0.026			0.27
D-232-98 134.8-140.0	0.008			0.05
D-232-98 140-145	0.003			0.02
D-232-98 145-150	0.008	0.009		0.05
D-232-98 150-155	0.011			0.03
D-232-98 155-160	0.006			0.02
D-232-98 160-165	0.012			0.04
D-232-98 165-170	0.044	0.056		0.03
D-232-98 170-175	0.012			0.03
D-232-98 175-180	0.005			0.03
D-232-98 180-185	0.007			0.05
D-232-98 185.0-191.4	0.002			0.02
D-232-98 191.4-193.8	0.027	0.020		0.06
D-232-98 193.8-197.9	0.004			0.04
D-232-98 197.9-200.4	0.015			0.11
D-232-98 200.4-205.0	0.003			0.04
D-232-98 205-210	0.004			0.05
D-232-98 210-215	0.001			<0.02
D-232-98 215-220	0.082	0.062	0.109	0.06
D-232-98 220-225	0.039			0.04
D-232-98 225-230	0.011			0.03
D-232-98 230-235	0.005			0.05
D-232-98 235-240	0.006			0.06

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP049152

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-232-98

REPORTED : 22 JUN 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-232-98 240.0-244.9	0.073		0.066	0.10
D-232-98 244.9-250.0	0.033			0.11
33775	0.514			2.93

xAMERICAN ASSAY LABORATORIES
ANALYSIS REPORT SP049152

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-232-98 RECEIVED : 15 JUN 1998

No. SAMPLES : 53 REPORTED : 22 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 SP049152

American Assay Laboratories

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PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-232-98

REPORTED : 22 JUN 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-232-98 0-4	0.003			0.02
D-232-98 4-9	0.001			<0.02
D-232-98 9-14	0.001			0.02
D-232-98 14-19	0.011	0.008		0.02
D-232-98 19-24	0.011			0.06
D-232-98 24-29	0.031	0.021		0.07
D-232-98 29-34	0.003			0.04
D-232-98 34-39	0.004			0.06
D-232-98 39-44	0.008			0.04
D-232-98 44-49	0.010	0.009		0.07
D-232-98 49.0-53.7	0.020			0.17
D-232-98 53.7-58.7	0.015			0.05
D-232-98 58.7-61.6	0.014			0.11
D-232-98 61.6-64.7	0.004			0.05
D-232-98 64.7-69.9	0.011			0.05
D-232-98 69.9-74.9	0.011			0.05
D-232-98 74.9-80.0	0.025	0.033		0.08
D-232-98 80.0-85.3	0.012			0.06
D-232-98 85.3-90.0	0.008			0.05
D-232-98 90-95	0.014			0.05
D-232-98 95-100	0.060			0.05
D-232-98 100-105	0.014	0.022		0.03
D-232-98 105-110	0.011			0.05
D-232-98 110.0-115.2	0.008			0.05
D-232-98 115.2-120.0	0.005			0.02

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP049152

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CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-232-98

REPORTED : 22 JUN 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-232-98 120.0-124.9	0.008			0.05
D-232-98 124.9-130.0	0.098		0.101	0.10
D-232-98 130.0-134.8	0.026			0.27
D-232-98 134.8-140.0	0.008			0.05
D-232-98 140-145	0.003			0.02
D-232-98 145-150	0.008	0.009		0.05
D-232-98 150-155	0.011			0.03
D-232-98 155-160	0.006			0.02
D-232-98 160-165	0.012			0.04
D-232-98 165-170	0.044	0.056		0.03
D-232-98 170-175	0.012			0.03
D-232-98 175-180	0.005			0.03
D-232-98 180-185	0.007			0.05
D-232-98 185.0-191.4	0.002			0.02
D-232-98 191.4-193.8	0.027	0.020		0.06
D-232-98 193.8-197.9	0.004			0.04
D-232-98 197.9-200.4	0.015			0.11
D-232-98 200.4-205.0	0.003			0.04
D-232-98 205-210	0.004			0.05
D-232-98 210-215	0.001			<0.02
D-232-98 215-220	0.082	0.062	0.109	0.06
D-232-98 220-225	0.039			0.04
D-232-98 225-230	0.011			0.03
D-232-98 230-235	0.005			0.05
D-232-98 235-240	0.006			0.06

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP049152

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PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-232-98

REPORTED : 22 JUN 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-232-98 240.0-244.9	0.073		0.066	0.10
D-232-98 244.9-250.0	0.033			0.11
33775	0.514			2.93

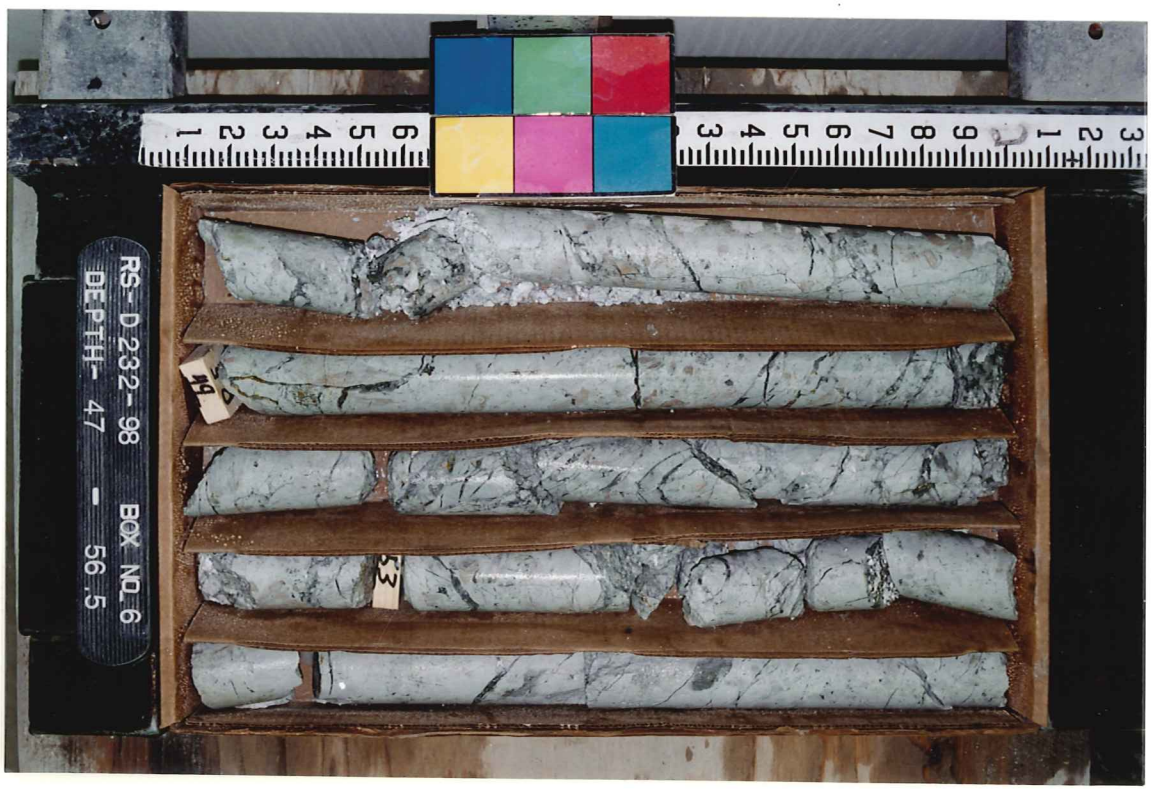
RS- D 232- 98 BOX NO. 2
DEPTH- 9.5 - 19

RS- D 232- 98 BOX NO. 1
DEPTH- 0 - 9.5

RS- D 232- 98 BOX NO. 3
DEPTH- 19 - 28.5

39
44
RS- D 232- 98 BOX NO. 5
DEPTH- 37.5 - 47

29
34
RS- D 232- 98 BOX NO. 4
DEPTH- 28.5 - 37.5


49
53
RS- D 232- 98 BOX NO. 6
DEPTH- 47 - 56.5

68
72.5
RS- D 232- 98 BOX NO. 8
DEPTH- 66 - 76

58
63
RS- D 232- 98 BOX NO. 7
DEPTH- 56.5 - 66

RS- D 232- 98 BOX NO. 9
DEPTH- 76 - 85.5
78
77.5
83.5

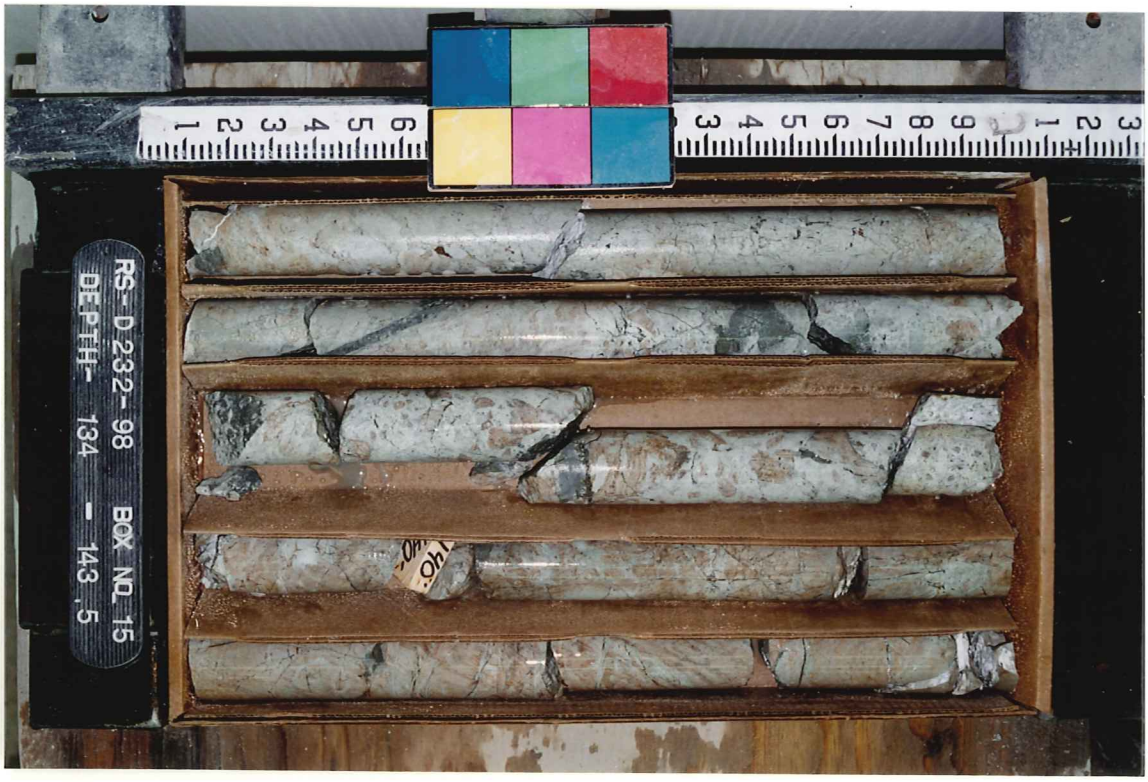
105
100
RS-D 232-98 BOX NO. 11
DEPTH- 95 - 105

87
95
90
RS-D 232-98 BOX NO. 10
DEPTH- 85.5 - 95

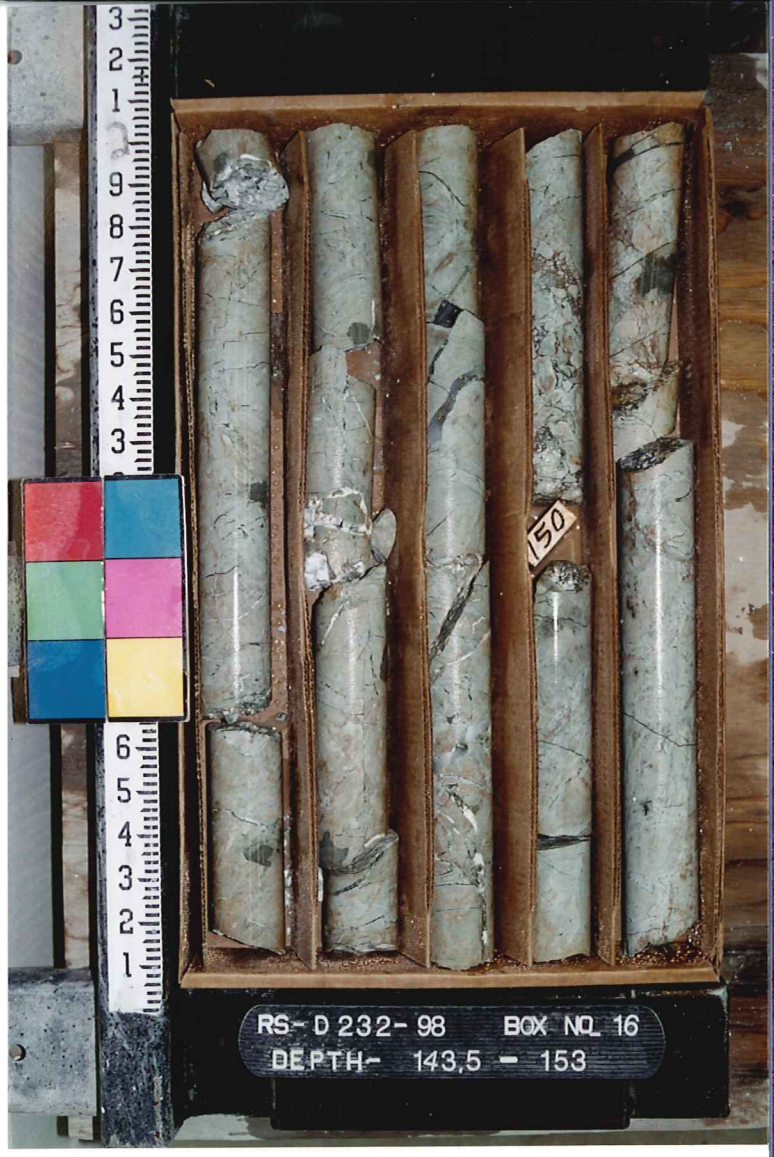
110
RS-D 232-98 BOX NO. 12
DEPTH- 105 - 114.5

130
RS- D 232- 98 BOX NO. 14
DEPTH- 124,5 - 134

120
RS- D 232- 98 BOX NO. 13
DEPTH- 114,5 - 124.5


RS- D 232- 98 BOX NO. 15
DEPTH- 134 - 143 .5

160
RS- D 232- 98 BOX NO. 17
DEPTH- 153 - 163,5


150
RS- D 232- 98 BOX NO. 16
DEPTH- 143,5 - 153

RS- D 232- 98 BOX NO. 18
DEPTH- 163,5 - 174
170

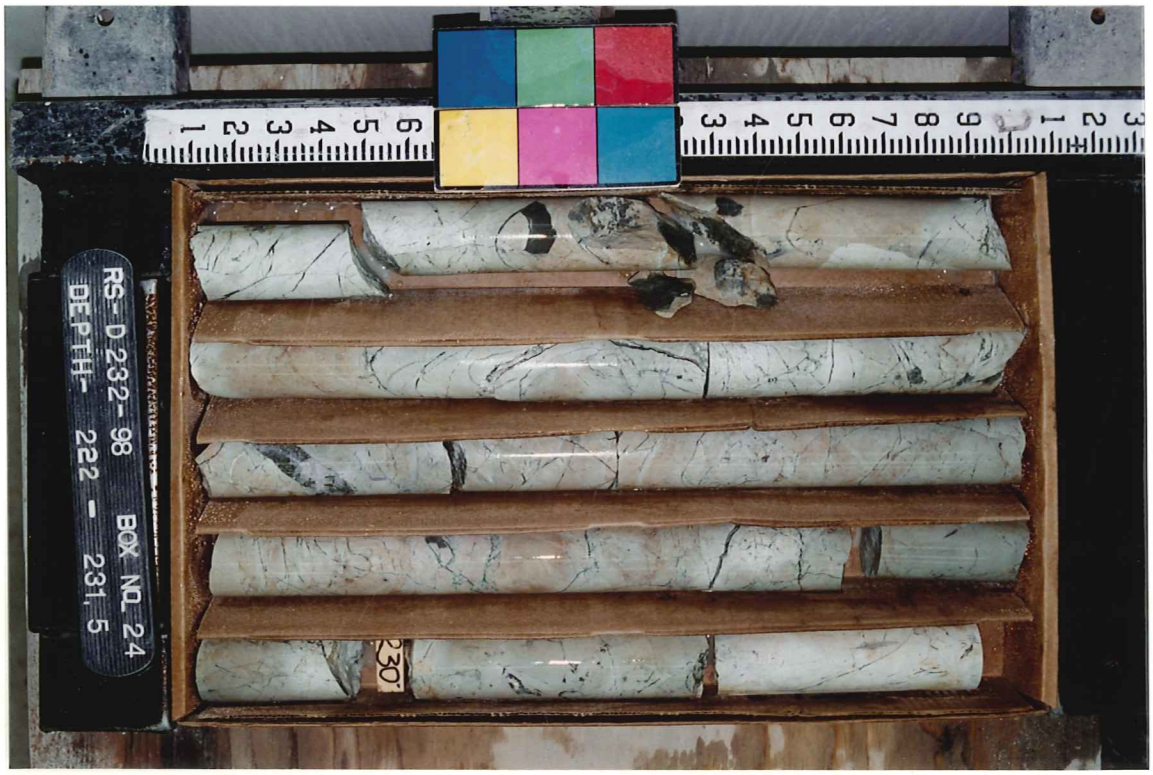
193.5
185
RS- D 232- 98 BOX NO. 20
DEPTH- 182.5 - 193.5

175
RS- D 232- 98 BOX NO. 19
DEPTH- 174 - 182.5

200
RS- D 232- 98 BOX NO. 21
DEPTH- 193.5 - 203

220
RS- D 232- 98 BOX NO. 23
DEPTH- 212.5- 222

RS- D 232- 98 BOX NO. 22
DEPTH- 203 - 212.5


RS- D 232- 98 BOX NO. 24
DEPTH- 222 - 231.5
230

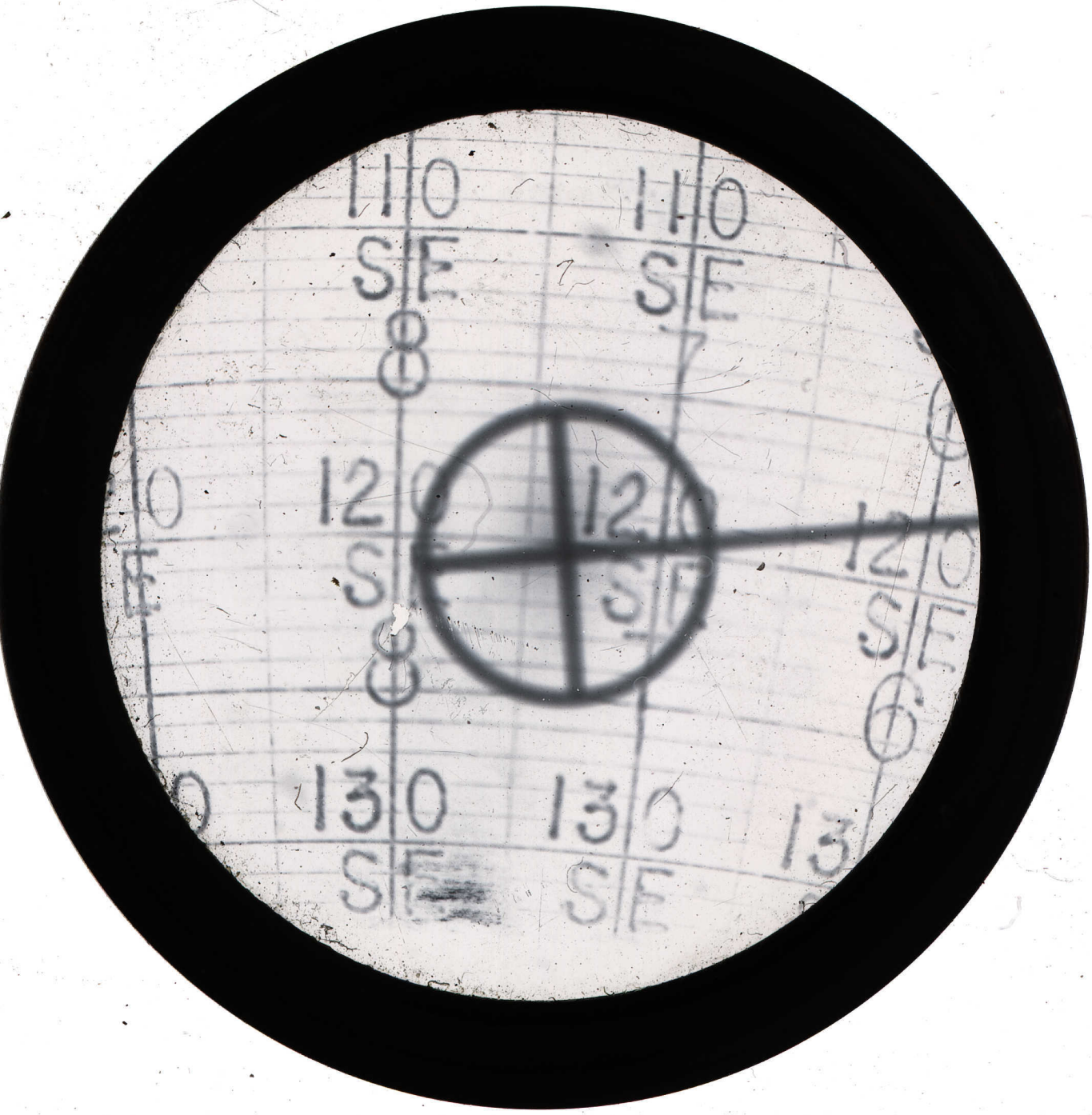
250
TD
RS- D 232- 98 BOX NO. 26
DEPTH- 241 - 250 TD

RS- D 232- 98 BOX NO. 25
DEPTH- 231,5 - 241

250' survey is
probably inaccurate.

SINGLE SHOT
PHOTO DISC RECORD

COMPANY
WELL NAME D232-98
LEASE
TAKEN BY Jerome
DEPTH 125'
DATE
DRIFT ANGLE
DIRECTION
TYPE
JOB NO.
HI-1408


110
SE
110
SE
120
120
120
130
130
130

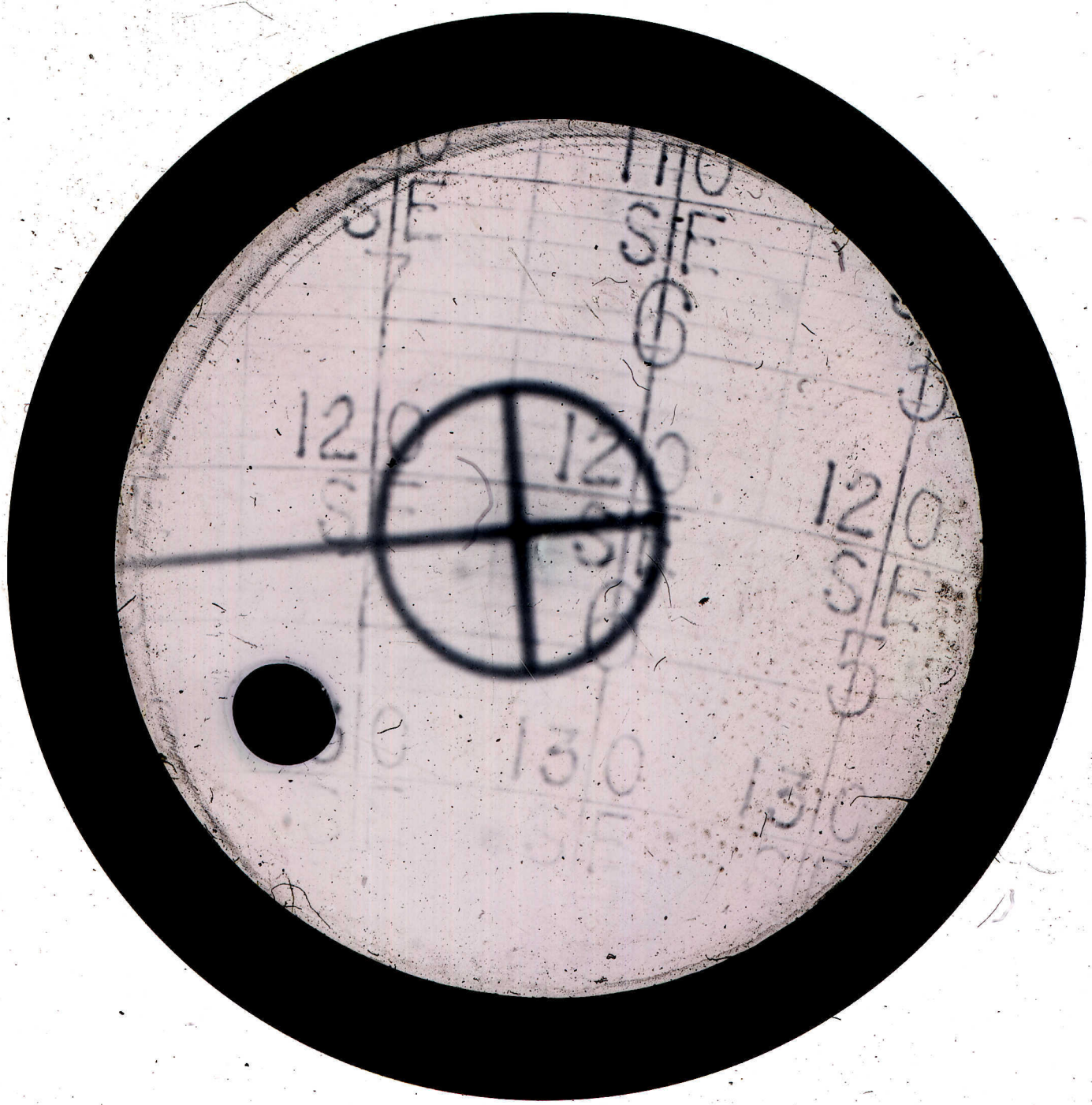
SINGLE SHOT
PHOTO DISC RECORD

COMPANY
WELL NAME D-232-98
LEASE
TAKEN BY Jerome
DEPTH Collar
DATE 4-20-98
DRIFT ANGLE
DIRECTION
TYPE
JOB NO.
HI-1408

110
SE
120
SE
130
SE

SINGLE SHOT
PHOTO DISC RECORD

COMPANY
WELL NAME D-232-98
LEASE
TAKEN BY Jerome
DEPTH 250'
DATE 4-20-98
DRIFT ANGLE
DIRECTION
TYPE
JOB NO.
HI-1408


110
SE
6
12
12
12
130
130