60001202

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-301-98
AUTHOR	S. King; K. Allen; A. Niles
DATE OF DOC(S)	1998
MULTI_DIST Y / (N?) Additional Dist_Nos:	
QUAD_NAME	Sulphur 7.5'
P_M_C_NAME (mine, claim & company names)	Rosebud Mine; Rosebud Project; Rosebud Mining Co. LLC Hecla Mining Co.
COMMODITY If not obvious	gold; silver
NOTES	Drill log; geology; assay; photographs; total depth 170' receipt; handwritten notes; downhole camera images 23p. 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 5/14/08
Initials Date
DB: mah
Initials Date
SCANNED: NB
Initials Date

Revised: 1/22/08

D- 301-98

60001202 4010

6060 1202

quartz, chalcedony, silicification
faults, fractures
FeOx
BaSO4
sulfide
calcite, carbonate
argillization, white clays
propylitization
potassic alteration
chlorite, chloritic clays

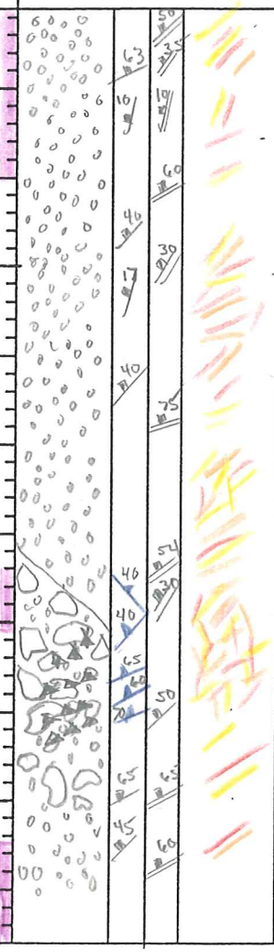
Hecla MINING COMPANY

ROSEBUD PROJECT
DIAMOND DRILL LOG

HOLE NUMBER	D-301-98	LOCATION	STOPE 50 NORTH SEC 1575
PAGE	1 OF 3	NORTHING	
DATE	10/14 -	EASTING	
LOGGED BY	ALLYN NILES	ELEVATION	
SCALE	1" = 10'	AZIMUTH	125
TOTAL DEPTH	170'	INCLINATION	0

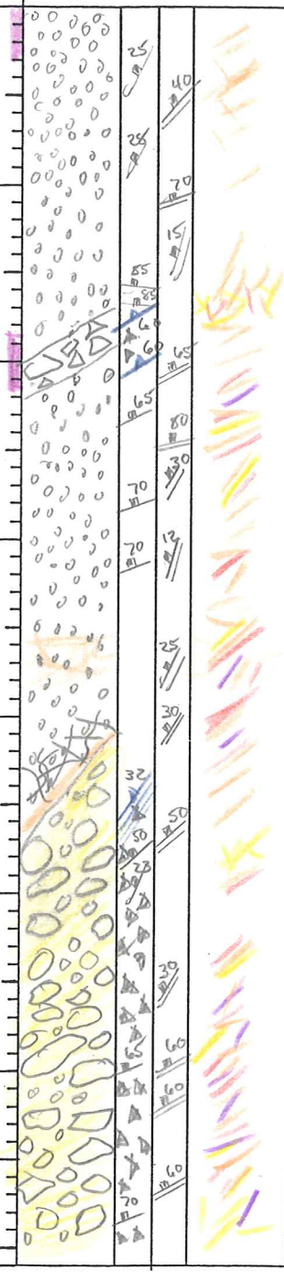
REMARKS

ITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
0.0-94.6		0.0 - 33.0			0.0 - 6.2 MOD. OPEN FRACTS	0.0 - 6.2 LINED W/ DRUZY QUARTZ & PYRITE AFTER MARC.
PLANAR LAMINAR		PINKISH → GREENISH VESICULAR FLOW(S) NO OBSERVED FABRIC ALIGNMENT	10		14.3 - 20.5 MOD. VEINING & OPEN FRACTURES	14.3-20.5 VEINS FILLED W/ WHITE CLAY & PYRITE, SOME QUARTZ & PYRITE, OPEN FRACTURES LINED W/ DRUZY QUARTZ, PYRITE
			20		27.0 - 39.0 STRONG VEINING, OPEN FRACTS & VUGS.	27.0-39.0 VEINS FILLED W/ HARD LT. YEL → WHITE CLAY, QUARTZ, PYRITE, MARC., VUGS & OPEN FRACTS. LINED W/ DRUZY QUARTZ, PYRITE & MARC.
		33.0-46.0 GREEN ROUND → ANGULAR VESICULAR PLANA FRAGS. IN PINK VOLCANIC CLAY MATRIX. MAYBE CORRELATIVE W/ PINK MATRIX BXA. SEVERAL YOUNGER BXA'S IN THIS ZONE ARE MINERALIZED	30		33.0 - 46.0 SOME VEINING & VUGS ASSOC. YOUNGER BXA'S IN BXA ZONE	
		PIMA →	40		39.0 - 68.0 MOD. VEINING & OPEN FRACTS	39.0 - 68.0 VEINS FILLED W/ HARD LT. YEL. → WHITE CLAY, PYRITE, MARC., VARIABLE QUARTZ, OPEN FRACTS LINED W/ SAME.
			50			



ANALYTICAL DATA						
FROM	TO	W	Au	Ag	Au2	Ag2
0.0	5.0					
5.0	10.0					
10.0	15.0					
15.0	20.3					
20.3	25.0					
25.0	28.5					
28.5	32.0					
32.0	35.5					
35.5	37.5					
37.5	40.0					
40.0	44.5					
44.5	47.5					

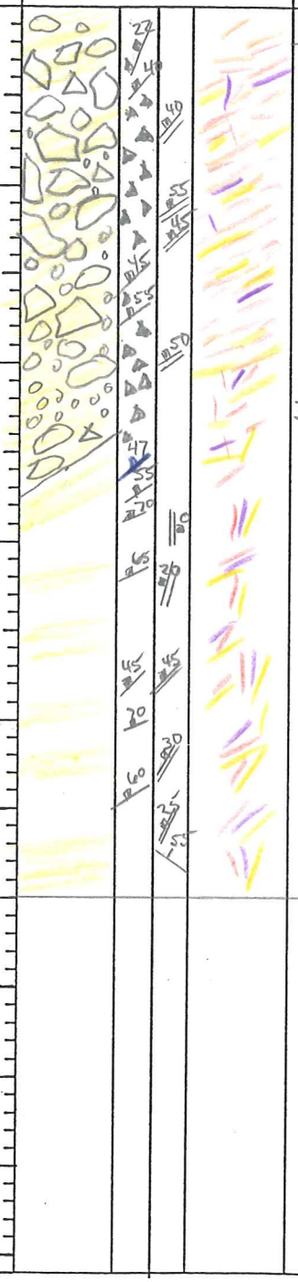
HOLE NUMBER D-301-98 PAGE 2 OF 3

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
0.0 –	94.6	46.0 – 94.6 PINK VESICULAR FLOW(S) W/ RARE PLANAR FEATURES & LAMINAR PARTINGS.	60 70 80 90 100 110 120		68.0 – 94.6 VERY STRONG VEINING, MINOR OPEN SPACES/VUGS; HEALED BXA 68.8 – 71.4 93.0 – 94.6 CRACKLE ZONE 94.6 – 103.5 HEALED BXA W/ SMALL ROUND FRAGS IN MATRIX, MINOR 103.5 – 118.0 MOD-VEINING & OPEN FRACTURES/VUGS	68.0 – 94.6 VEINS FILLED W/ QUARTZ, HARD WHITE CLAY PYRITE, SOME MARC. BLADES, VUGS/OPEN SPACES LINED W/ DRUZY QUARTZ, BLADED MARC., SOME PYRITE, SPOTTY MINOR BARITE 85.3 – 88.2 WEAK ARGILLIC ALT. 94.0 – 95.2 STRONG ARG. ALT. @ CONTACT W/ SRF. 95.2 – 102.0 V. STRONG → COMPLETE SILICA FLOODING OF ALL COMPONENTS, MINOR SULFIDES & WHITE CLAY FILLING FRACTS. 103.5 – 118.0 VEINS FILLED W/ WHITE CLAY; MINOR PYRITE. VUGS FRACTS LINED W/ DRUZY QUARTZ, BARITE, MINOR WHITE CLAY.
94.6 –	146.0	94.6 – 102.0 DK. GRAY → GRAY, ROUND CLASTS IN A FINE GRAIN MATRIX. MYLONITIC TEXTURES TO 97.0, ALIGNED W/ FAULT PLANE.				
SRF		102.0 – 146.0 PIMA → GRAY DOZER FRAGS, MOSTLY ROUND, SOME ANGULAR IN A GRAY MATRIX. VERY STRONG TO COMPLETE SILICA FLOODING OF ALL COMPONENTS.				

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2
47.5	53.0				
53.0	57.0				
57.0	62.0				
62.0	66.0				
66.0	68.4				
68.4	71.5				
71.5	75.0				
75.0	80.0				
80.0	85.0				
85.0	90.0				
90.0	95.0				
95.0	97.5				
97.5	100.0				
100.0	102.5				
102.5	105.0				
105.0	107.7				
107.7	110.0				
110.0	112.5				
112.5	115.0				
115.0	118.0				

HOLE NUMBER D-301-98 PAGE 3 OF 3

ITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
94.6 - 146.0 S RF		102.0 - 146.0 SEE DESCRIPTION PAGE 2	130 140 150 160 170		118.0 - 140.5 STRONG VEINING, DISCONTINUOUS VEINLETS, OPEN FRACTS/VUGS. 140.5 - 170.0 MOD. → STRONG OPEN FRACT./VUGS, MINOR → MOD VEINING.	118.0 - 140.5 VEINS & VEINLETS FILLED W/ SMALL BLADES OF MARC., SOME PYRITE, QUARTZ & WHITE CLAY. VEINLETS OFTEN LOOK LIKE ZEBRA STRIPES, OPEN FRACTS & VUGS LINED W/ QUARTZ, DRUZY QUARTZ, BARITE MINOR PYRITE & MARC., ? WHITE CLAY. 140.5 - 170.0 COMMON STIBNITE LINING OPEN FRACTS/VUGS, OFTEN W/ BARITE, OCCASIONAL PYRITE & WHITE CLAY. DRUZY QUARTZ COMMON. 150.0 - 150.7 SPECTACULAR STIBNITE LINING FRACT. 146.0 - 170.0 STRONG SILICA REP.
146.0 - 170.0 DOZIER		146.0 - 170.0 GRAY, THICK → MASSIVE FLOW(S), FINE GRAIN, VERY RARE FLOW FEATURES.				
		T.D. 170' (MORE OR LESS)				

ANALYTICAL DATA					
FROM	TO	W	Au	Ag	Au2
118.0	121.0				
121.0	125.0				
125.0	128.0				
128.0	131.0				
131.0	134.0				
134.0	137.2				
137.2	140.0				
140.0	143.0				
143.0	146.2				
146.2	150.0				
150.0	152.3				
152.3	156.0				
156.0	160.0				
160.0	163.0				
163.0	166.0				
166.0	170.0				

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-301-98 DATE: 10/14/98 LOGGED BY: ALLYN NILES PAGE 1 OF 2

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	10.0	91.0	97.0	27.0										
10.0	17.0	85.7	94.3	28.5										
17.0	25.0	107.5	107.5	63.7										
25.0	33.0	96.2	102.5	41.2										
33.0	40.0	100.0	100.0	75.7										
40.0	50.0	95.0	95.0	78.0										
50.0	60.0	100.0	100.0	61.0										
60.0	66.0	100.0	100.0	38.3										
66.0	75.0	100.0	100.0	83.0										
75.0	85.0	99.0	99.0	85.0										
85.0	95.0	100.0	100.0	84.0										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-301-98 DATE: 10/14/98 LOGGED BY: ALLYN NILES PAGE 2 OF 2

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)
95.0	105.0	95.0	95.0	67.0										
105.0	115.0	99.0	99.0	91.0										
115.0	125.0	91.0	91.0	84.0										
125.0	134.0	100.0	100.0	80.0										
134.0	140.0	45.0	108.3	60.0										
140.0	150.0	98.0	99.0	84.0										
150.0	160.0	101.0	101.0	90.0										
160.0	170.0	94.0	96.0	82.0										

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP05119

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

HECLA MINING COMPANY

COPIES TO : KURT ALLEN

:

:

:

CLIENT REFERENCE No: D-301-98 RECEIVED : 20 OCT 1998

No. SAMPLES : 49 REPORTED : 12 NOV 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%	PT	0.001
Au(RZ)	FA30	15%	PT	0.001
AuGRAV	GRAV	15%	PT	0.001
Ag(OZ)	D210	10%	PT	0.02

SIGNATORY : Susan King M.S.

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP051140

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-301-98

REPORTED : 12 NOV 1998

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
D-301-98 00-05	0.410		0.334	0.61
D-301-98 05-10	0.160		0.152	0.15
D-301-98 10-15	0.027			0.31
D-301-98 15.0-20.3	0.043			0.06
D-301-98 20.3-25.0	0.103		0.107	0.33
D-301-98 25.0-28.5	0.084		0.089	0.57
D-301-98 28.5-32.0	0.066		0.073	0.33
D-301-98 32.0-35.5	0.405		0.383	1.00
D-301-98 35.5-37.5	0.089		0.091	0.18
D-301-98 37.5-40.0	0.109		0.081	0.14
D-301-98 40.0-44.5	0.055		0.061	0.46
D-301-98 44.5-47.5	0.076		0.073	0.13
D-301-98 47.5-53.0	0.175		0.185	0.16
D-301-98 53-57	0.067		0.103	1.19
D-301-98 57-62	0.054		0.065	0.09
D-301-98 62-66	0.063		0.100	0.15
D-301-98 66.0-68.4	0.019			0.07
D-301-98 68.4-71.5	0.210		0.180	0.16
D-301-98 71.5-75.0	0.007			0.06
D-301-98 75-80	0.037			0.05
D-301-98 80-85	0.048			0.07
D-301-98 85-90	0.055		0.072	0.13
D-301-98 90-95	0.060		0.080	0.12
D-301-98 95.0-97.5	0.007			2.40
D-301-98 97.5-100.0	0.004			0.44

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP051190

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-301-98

REPORTED : 12 NOV 1998

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
D-301-98 100.0-102.5	0.004			0.89
D-301-98 102.5-105.0	0.006	0.015		10.96
D-301-98 105.0-107.7	0.006			1.42
D-301-98 107.7-110.0	0.006			1.20
D-301-98 110.0-112.5	0.005	0.004		2.12
D-301-98 112.5-115.0	0.005			1.69
D-301-98 115-118	0.004			2.46
D-301-98 118-121	0.004			0.42
D-301-98 121-125	0.005			0.08
D-301-98 125-128	0.010			2.85
D-301-98 128-131	0.032			2.04
D-301-98 131-134	0.003			0.44
D-301-98 134.0-137.2	0.019			0.68
D-301-98 137.2-140.0	0.003			0.34
D-301-98 140-143	0.021			2.84
D-301-98 143.0-146.2	0.002			3.12
D-301-98 146.2-150.0	0.002			2.00
D-301-98 150.0-152.3	0.008			3.36
D-301-98 152.3-156.0	0.004			2.61
D-301-98 156-160	0.002			0.49
D-301-98 160-163	0.002			0.25
D-301-98 163-166	0.002			0.14
D-301-98 166-170	0.002			0.59
43561	0.129			2.83

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 0051190-IN
INVOICE DATE: 11/13/98

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-301-98	DEVELOPMENT	NET 30 - DUE IN U.S. DOLLARS

QUANTITY	DESCRIPTION	PRICE	AMOUNT
49	SAMPLES RECEIVED	.00	.00
48	JAW CRUSHING CHARGE	1.30	62.40
48	COARSE MILLING CHARGE	4.50	216.00
48	SPLITTING CHARGE	2.40	115.20
48	RING MILLING CHARGE	2.00	96.00
49	Au (1 A.T. FIRE ASSAY)	8.00	392.00
17	Au ANALYSES/GRAVIMETRIC	8.75	148.75
49	HYDROCHLORIC/NITRIC DIGESTION	2.00	98.00
49	Ag ANALYSES	1.00	49.00
12	Ag (ore grade) ANALYSES	5.00	60.00

86-5110-477
KAA

NET INVOICE:	1,237.35
LESS DISCOUNT:	247.47
FREIGHT:	.00
INVOICE TOTAL:	989.88

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP051190

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-301-98 RECEIVED : 20 OCT 1998

No. SAMPLES : 49 REPORTED : 12 NOV 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 SP051190

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-301-98

REPORTED : 12 NOV 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-301-98 00-05	0.410		0.334	0.61
D-301-98 05-10	0.160		0.152	0.15
D-301-98 10-15	0.027			0.31
D-301-98 15.0-20.3	0.043			0.06
D-301-98 20.3-25.0	0.103		0.107	0.33
D-301-98 25.0-28.5	0.084		0.089	0.57
D-301-98 28.5-32.0	0.066		0.073	0.33
D-301-98 32.0-35.5	0.405		0.383	1.00
D-301-98 35.5-37.5	0.089		0.091	0.18
D-301-98 37.5-40.0	0.109		0.081	0.14
D-301-98 40.0-44.5	0.055		0.061	0.46
D-301-98 44.5-47.5	0.076		0.073	0.13
D-301-98 47.5-53.0	0.175		0.185	0.16
D-301-98 53-57	0.067		0.103	1.19
D-301-98 57-62	0.054		0.065	0.09
D-301-98 62-66	0.063		0.100	0.15
D-301-98 66.0-68.4	0.019			0.07
D-301-98 68.4-71.5	0.210		0.180	0.16
D-301-98 71.5-75.0	0.007			0.06
D-301-98 75-80	0.037			0.05
D-301-98 80-85	0.048			0.07
D-301-98 85-90	0.055		0.072	0.13
D-301-98 90-95	0.060		0.080	0.12
D-301-98 95.0-97.5	0.007			2.40
D-301-98 97.5-100.0	0.004			0.44

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP051190

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-301-98

REPORTED : 12 NOV 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-301-98 100.0-102.5	0.004			0.89
D-301-98 102.5-105.0	0.006	0.015		10.96
D-301-98 105.0-107.7	0.006			1.42
D-301-98 107.7-110.0	0.006			1.20
D-301-98 110.0-112.5	0.005	0.004		2.12
D-301-98 112.5-115.0	0.005			1.69
D-301-98 115-118	0.004			2.46
D-301-98 118-121	0.004			0.42
D-301-98 121-125	0.005			0.08
D-301-98 125-128	0.010			2.85
D-301-98 128-131	0.032			2.04
D-301-98 131-134	0.003			0.44
D-301-98 134.0-137.2	0.019			0.68
D-301-98 137.2-140.0	0.003			0.34
D-301-98 140-143	0.021			2.84
D-301-98 143.0-146.2	0.002			3.12
D-301-98 146.2-150.0	0.002			2.00
D-301-98 150.0-152.3	0.008			3.36
D-301-98 152.3-156.0	0.004			2.61
D-301-98 156-160	0.002			0.49
D-301-98 160-163	0.002			0.25
D-301-98 163-166	0.002			0.14
D-301-98 166-170	0.002			0.59
43561	0.129			2.83

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP051190

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HECLA MINING COMPANY

COPIES TO : KURT ALLEN
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:
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CLIENT REFERENCE No: D-301-98 RECEIVED : 20 OCT 1998

No. SAMPLES : 49 REPORTED : 12 NOV 1998

MAIN SAMPLE TYPE : DRILL CORE

NEVADA LEGISLATIVE DISCLAIMER :-
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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 SP051190

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-301-98

REPORTED : 12 NOV 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-301-98 00-05	0.410		0.334	0.61
D-301-98 05-10	0.160		0.152	0.15
D-301-98 10-15	0.027			0.31
D-301-98 15.0-20.3	0.043			0.06
D-301-98 20.3-25.0	0.103		0.107	0.33
D-301-98 25.0-28.5	0.084		0.089	0.57
D-301-98 28.5-32.0	0.066		0.073	0.33
D-301-98 32.0-35.5	0.405		0.383	1.00
D-301-98 35.5-37.5	0.089		0.091	0.18
D-301-98 37.5-40.0	0.109		0.081	0.14
D-301-98 40.0-44.5	0.055		0.061	0.46
D-301-98 44.5-47.5	0.076		0.073	0.13
D-301-98 47.5-53.0	0.175		0.185	0.16
D-301-98 53-57	0.067		0.103	1.19
D-301-98 57-62	0.054		0.065	0.09
D-301-98 62-66	0.063		0.100	0.15
D-301-98 66.0-68.4	0.019			0.07
D-301-98 68.4-71.5	0.210		0.180	0.16
D-301-98 71.5-75.0	0.007			0.06
D-301-98 75-80	0.037			0.05
D-301-98 80-85	0.048			0.07
D-301-98 85-90	0.055		0.072	0.13
D-301-98 90-95	0.060		0.080	0.12
D-301-98 95.0-97.5	0.007			2.40
D-301-98 97.5-100.0	0.004			0.44

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP051190

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-301-98

REPORTED : 12 NOV 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-301-98 100.0-102.5	0.004			0.89
D-301-98 102.5-105.0	0.006	0.015		10.96
D-301-98 105.0-107.7	0.006			1.42
D-301-98 107.7-110.0	0.006			1.20
D-301-98 110.0-112.5	0.005	0.004		2.12
D-301-98 112.5-115.0	0.005			1.69
D-301-98 115-118	0.004			2.46
D-301-98 118-121	0.004			0.42
D-301-98 121-125	0.005			0.08
D-301-98 125-128	0.010			2.85
D-301-98 128-131	0.032			2.04
D-301-98 131-134	0.003			0.44
D-301-98 134.0-137.2	0.019			0.68
D-301-98 137.2-140.0	0.003			0.34
D-301-98 140-143	0.021			2.84
D-301-98 143.0-146.2	0.002			3.12
D-301-98 146.2-150.0	0.002			2.00
D-301-98 150.0-152.3	0.008			3.36
D-301-98 152.3-156.0	0.004			2.61
D-301-98 156-160	0.002			0.49
D-301-98 160-163	0.002			0.25
D-301-98 163-166	0.002			0.14
D-301-98 166-170	0.002			0.59
43561	0.129			2.83

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 LL

Address: P.O. BOX 2610

City WINNEMUCCA State NV Zip 89445

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

Project Name: DEVELOPMENT Purchase Order Number:

Date Submitted: 10/16/98 Number of Samples: 48

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

D-301-98 SAMPLE IDENTIFICATION			TYPE	Au-Ag ACCORDING TO ROSEBUD MINE PROTOCOL ELEMENTS REQUIRED
0-5	62-66	115-118		90-95
5-10	66-68.4	118-121		95-97.5
10-15	68.4-71.5	121-125		97.5-100
15-20.3	71.5-75	125-128		131-134
20.3-25	75-80	128-131		134-137.2
25-28.5	80-85	~~131-134~~		137.2-140
28.5-32	85-90	140-143		
32-35.5	~~90-95~~	143-146.2		
35.5-37.5	~~95-100~~	146.2-150		
37.5-40	100-102.5	150-152.3		
40-44.5	102.5-105	152.3-156		
44.5-47.5	105-107.7	156-160		
47.5-53	107.7-110	160-163		
53-57	110-112.5	163-166		
57-62	112.5-115	166-170		

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

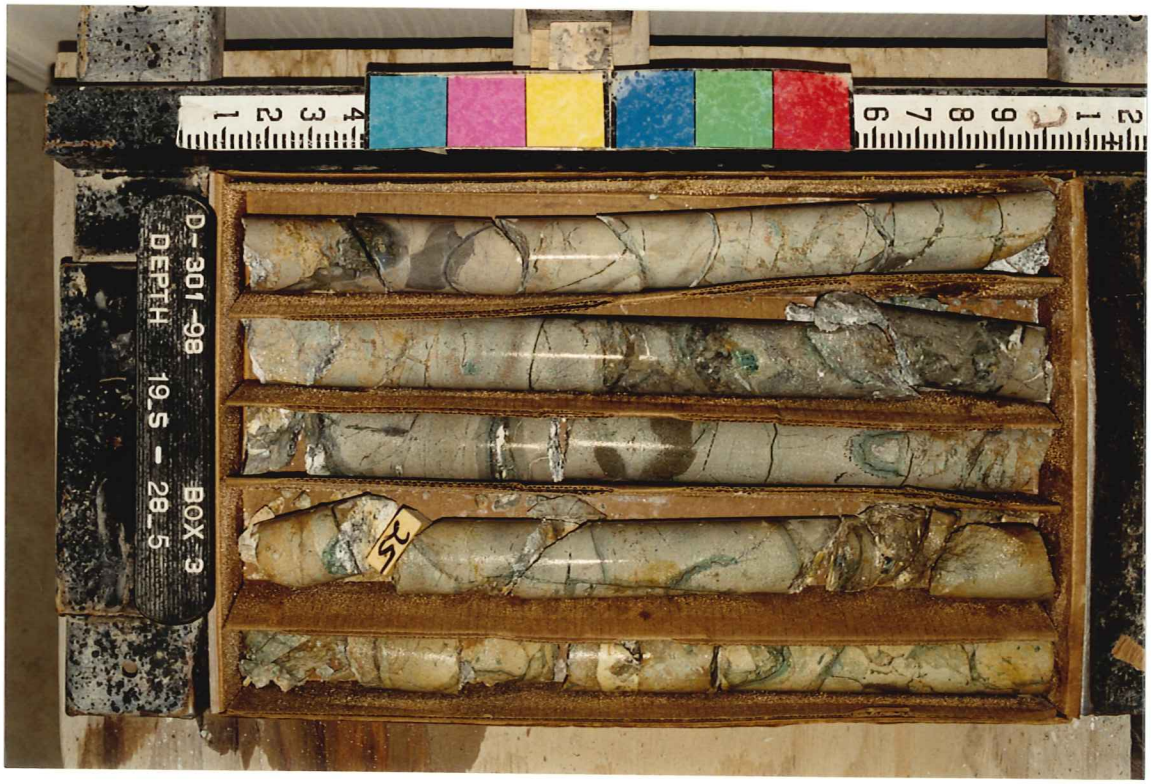
Comments:

CLIENT FILE COPY

D-301-98	40	0	122.7
	100	0	123.2
	170	0.5	123.2

D-301-98
BOX 2
DEPTH 10 - 19.5
10
17

D-301-98
BOX 1
DEPTH 0 - 10


D-301-98
BOX 3
DEPTH 19.5 - 28.5
25

40
D-301-98 BOX 5
DEPTH 37.5 - 47

33
D-301-98 BOX 4
DEPTH 28.5 - 37.5

50
D-301-98 BOX 6
DEPTH 47 - 56

D-301-98 BOX 8
DEPTH 65 - 74_5

D-301-98 BOX 7
DEPTH 56 - 65

D-301-98 BOX 9
DEPTH 74_5 - 84

95
D-301-98
BOX 11
DEPTH 93_5 - 103_5

85
D-301-98
BOX 10
DEPTH 84 - 93_5

105
D-301-98
BOX 12
DEPTH 103_5 - 113

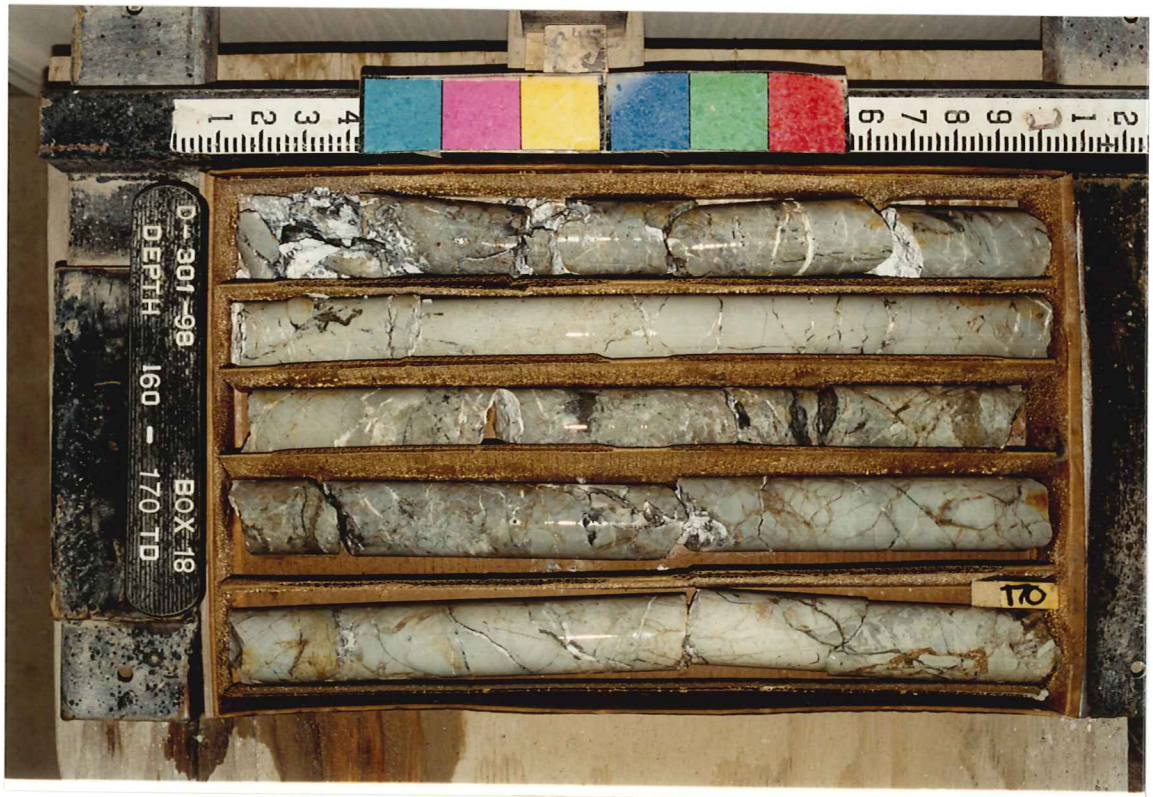
125
D-301-98
BOX 14
DEPTH 123 - 132.5

115
D-301-98
BOX 13
DEPTH 113 - 123

134
140
D-301-98
BOX 15
DEPTH 132.5 - 141

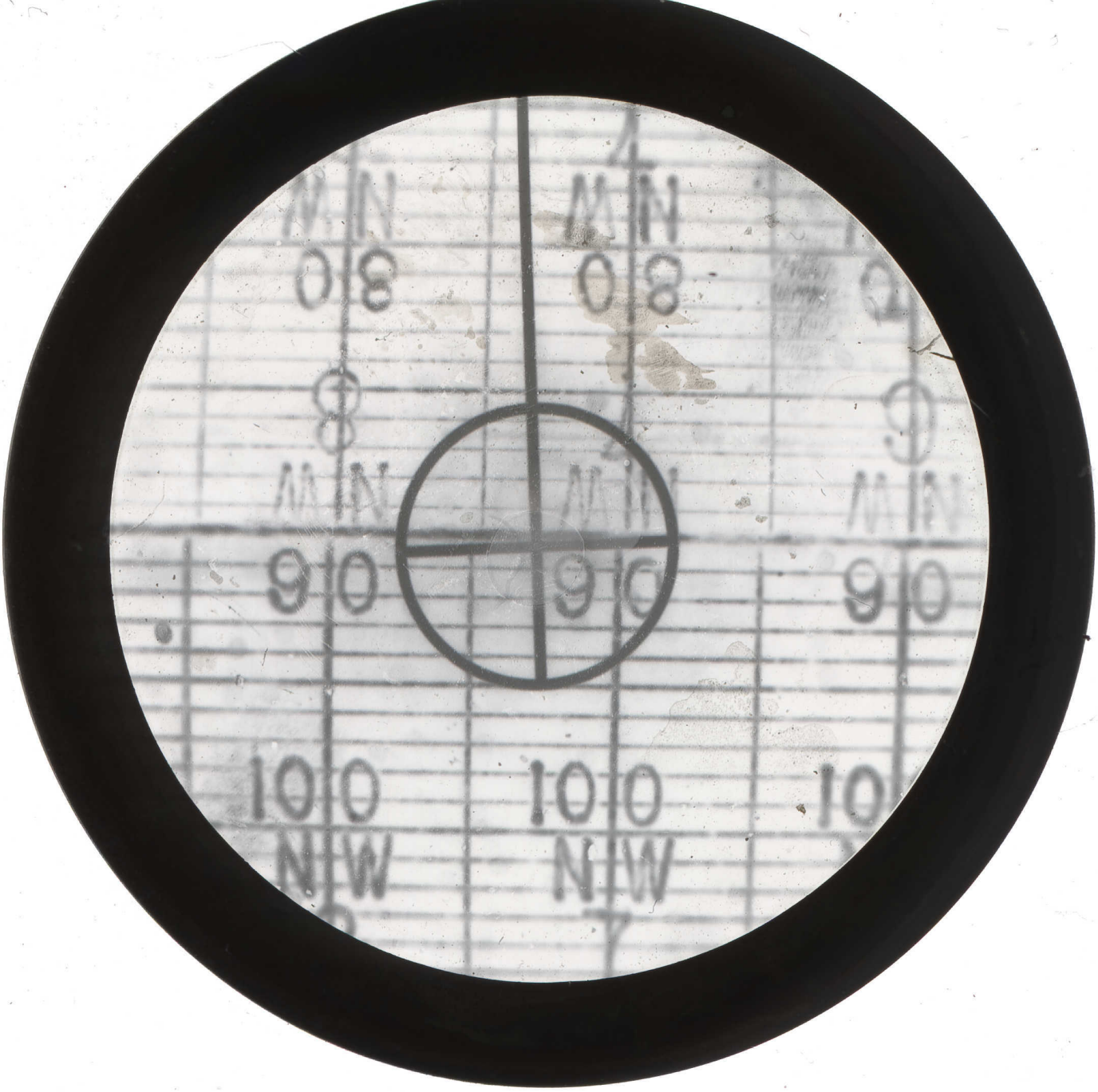
D-301-98
BOX 17
DEPTH 150_5 - 160
160

D-301-98
BOX 16
DEPTH 141 - 150_5


D-301-98
BOX 18
DEPTH 160 - 170 TD
TD

SINGLE SHOT
PHOTO DISC RECORD

COMPANY HECLA
WELL NAME P30198
LEASE
TAKEN BY BAMFORD
DEPTH 100
DATE 8-31-98
DRIFT ANGLE
DIRECTION
TYPE
JOB NO.
HI-1408


MN
80
90
100
NW

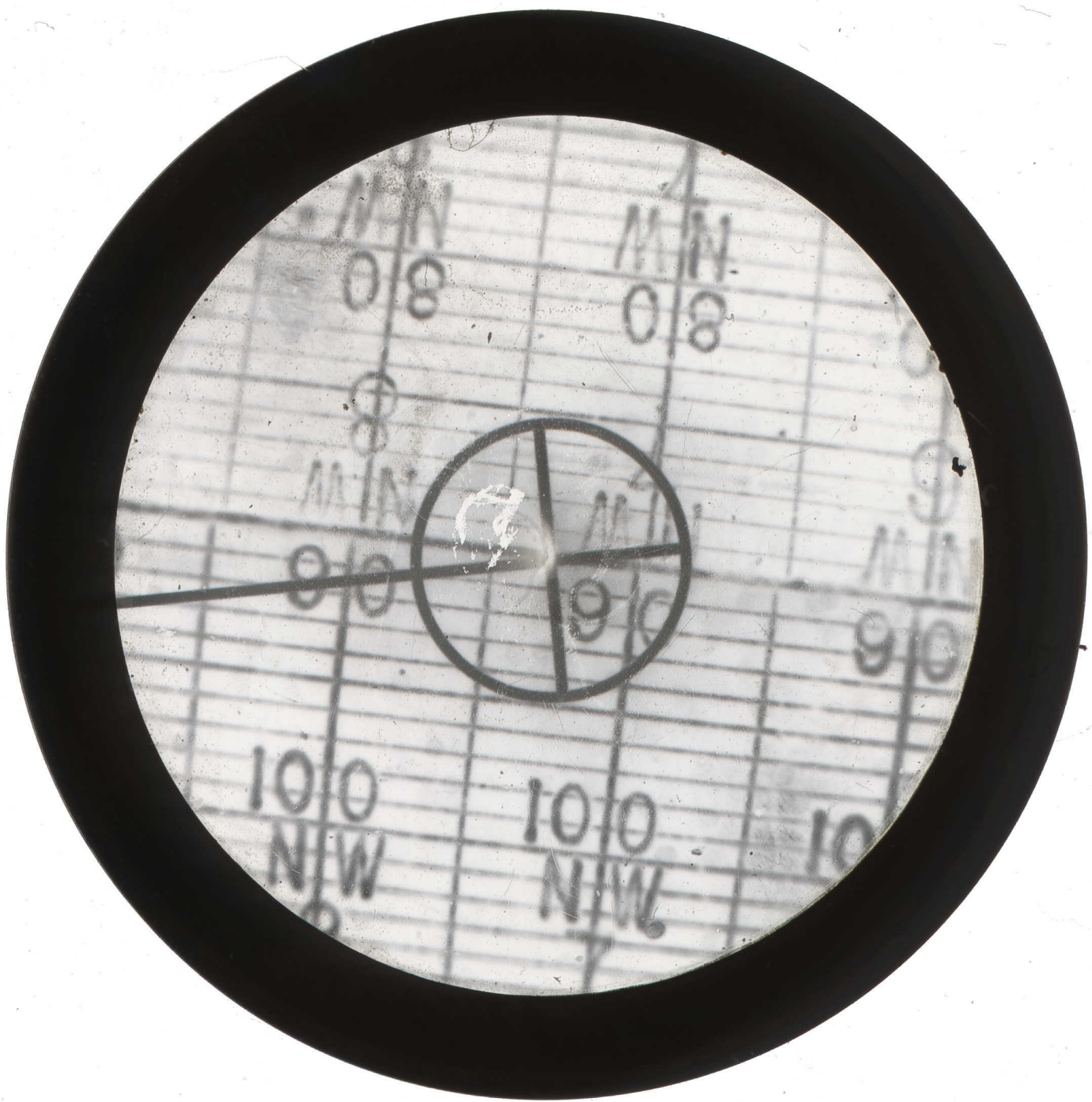
SINGLE SHOT
PHOTO DISC RECORD

COMPANY HecLA
WELL NAME D 30/98
LEASE
TAKEN BY BAmFoRD
DEPTH 170
DATE 8-31-98
DRIFT ANGLE
DIRECTION
TYPE
JOB NO.
HI-1408

NW
8
80
NW

SINGLE SHOT
PHOTO DISC RECORD

COMPANY HECLA
WELL NAME D 30198
LEASE
TAKEN BY BAMFORD
DEPTH 40
DATE 8-31-98
DRIFT ANGLE
DIRECTION
TYPE
JOB NO.
HI-1408


9
MIN
80
90
100
NW