60001229

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-329-98
AUTHOR	S. King; K. Allen; Whitney
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 350' receipt; handwritten notes; downhole camera images 44p. 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-329-98

6000 1229

60001229

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 329-98	LOCATION	Stope 50 Access, Section 1500	REMARKS	
PAGE 1 OF	6	NORTHING		Completed 10/17/98	
DATE	11-09-98	EASTING			
LOGGED BY	WHITNEY	ELEVATION			
SCALE	1" = 10'	AZIMUTH	125°		
TOTAL DEPTH		INCLINATION	34°		

LITH	OX/RE	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
0-33.7		FINE GRAINED MASSIVE [1-4.5] bx, isolated, milled clasts in weakly silicified rk flour matrix. Si flooding & FM etc. gouge is foliated. FGM is lite gray, entire section is brecciated - angular to subrnd clasts in firm rk flour matrix, matrix >> clasts to << clasts. varies from matrix support to clast support. No silicification. [19-21] bx. ang clasts of FGM in Si matrix. matrix support. <matrix>clasts. [33.7] ctc is Si-d bx 40° to CA	10 20 30		[1-4.5] flt. 1st cte 50° to CA, 2nd cte 35° to CA foliation within flt of 15° to CA. [19-21] flt 15° to CA	0-1 weakly chloritic. FLT zones bleached out. [1-6.6] extended zone of uncommon to common q-cly-±py-chl-clular vnlts. hairline to 1/4". 20,45,65 to CA. matrix is vfg to crse blades/plates [1-41.8] zone of Si-matrix gouge & crackle bx. Si is gry to clr w/ gently <1% S-d where in open crackle filling it occurs w/ soft wh clt, crse marcasite, ± ±pyr.
33.7-110.6		PLANAR/LAMINAR [39.5-41.8] open texture crackle bx. Si-cly-S- infill. PL/LA starts densely vesicular w/ only faint folist. changes to prominent parting foliation & vesicle trains @ 60.5'. 45.5 PIMA	40 50		[36] 4" of Si-flooded gouge ~70° to CA [38] wk fol. 20° to CA [50] wk fol. 20° to CA	[39.5-41.8] Si-cly-marcas-py infill in crackle bx.

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2	Ag
0	1					
1	4.5					
4.5	7.6					
7.6	11.3					
11.3	14.2					
14.2	17.1					
17.1	21					
21	25					
25	30					
30	33.7					
33.7	38.5					
38.5	41.8					
41.8	46.2					
46.2	50					

HOLE NUMBER D 329-98 PAGE 2 OF 6

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
33.7 – 110.6		PLANAR/LAMINAR				
		[57.5-105] bx, crackle, Si-matrix, and rk flour matrix, 57.5 PIMA	60		[57.5-105] flt. ~50 to CA	[53-58] numerous <1/8" vnlts w/ white cly cores and moreas. along edges. 20, 40, 50 to CA
					[61] foliat. 45° to CA	
			70		[68] vesicle trains 45° to CA	[63-74.5] common calcite vnlts; [66-89] q-cly-S⁻ vnlts become rare
			80		[75] fol. 40° to CA	
					[84] fol. 55° to CA	
		[89-104] zone of crackle bx & several narrow Si-matrix bxs. crackle bx is open text w/ the Si-cly-S⁻ noted prev. PL/LA blocks within this section are rotated - variable foliation %s.	90		[89] fol 30° to CA; [92.5] 6" bx ± 50° to CA	[89-104] q-cly-more-py as infill to open crackle bx. hairline - <1/8" vnlts common.
			100		[100] 4" bx 50° to CA; [102] 1" bx 35° to CA	
		[108-ctc] wk-mod worm development 105.5 PIMA	110		[110.6] ctc 35° to CA along 3" Si-matrix bx	[110.6] 3" q-py-more matrix bx
110.6 – 142.6		FINEGRAINED MASSIVE				
		med tan-gry, vf vole. typical - distinctive character is crackle fx set. chloritic clots after lithics & phenos(?) [112-118] wkly worm	120			[119-133] zone of mod-str crackle bx. 1-2 py-more matrix. bpet.

ANALYTICAL DATA						
FROM	TO	W	Au	Ag	Au2	A
50	53.3					
53.3	56.6					
56.6	60					
60	63					
63	66.5					
66.5	70					
70	73.7					
73.7	77.1					
77.1	81.6					
81.6	85.4					
85.4	88.3					
88.3	91.9					
91.9	94.5					
94.5	97.3					
97.3	100					
100	102.8					
102.8	106.2					
106.2	109					
109	112					
112	115.5					
115.5	119					
119	122.5					

HOLE NUMBER D 329-98 PAGE 3 OF 6

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
110.6–142.6		FINEGRAINED MASSIVE continue as described previous [133] start transitional to vitrophyre texture. rare conchoidal fxs. [134.2-137.4] bx. milled clasts << matrix. fault 135 PIMA	130 140		[130] 3" bx 55° to CA [134.2] bx/flt. foliation 10° to CA [142.4] ctc along fault @ 10° to CA	continue q-5- matrix crackle bx. [130] 3" q-mare-py matrix bx [140.5-144] zone of common to abundant q-mares-cly-pyr infill to crackle bx, mares generally coarse plates. Also common veins to 1/8" @ 20°, 35°, & 60° to CA [148] minor barite
142.6–168.7		VITROPHYRE med gry, vfg, dense volcanic. non foliated. distinctive conchoidal crackle fxs. clast cores show xl development - ±3 (± fspr?) Typical. [160-162] unusual blue-white chalcedony as bx matrix. faint banking.	150 160			[153.5-155] v. strong bx development w/ abundant mareasite. [164-173] zone similar to above; less bx. S- occurs as spotty replacement. wk-mod drg. [171-173] mod drg.
168.7–198.6		FINEGRAINED MASSIVE med gry vfg volc as described previously.	170 180 190		[168.7] ctc on fx @ 50° to CA	[173-194] wk-mod silicif. w/ wk crackle bx developed q-py-mareas-±cly.

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2	A
119	122.5					
122.5	126					
126	129.5					
129.5	133					
133	137					
137	140.5					
140.5	144					
144	147.4					
147.4	150.5					
150.5	153.5					
153.5	155					
155	158					
158	161					
161	164					
164	167					
167	171					
171	175					
175	178					
178	182					
182	186					
186	189					
189	193					

HOLE NUMBER D 329-98 PAGE 4 OF 6

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
168.7 – 198.6		FINE GRAINED MASSIVE continue as previous.				
		[193-195] bx. variable - clast to matrix support. angular. q-s-chlor matrix.			[193-195] bx. 25° to CA	continue silicif / bx to 194
						[193-195] q-s-chlor bx matrix
198.6 – 350 TD		PLANAR/LAMINAR			[198.6] cte along vnlt 60° to CA against foliation	[195-211.5] sparse - rare q-s-chlor vnlts ~20° to CA
		med grey tan fg vck. prominent flow foliation. common chlorite clots after phnos. Lacks vesicle textures.	200		[203] fol. 65° to CA	
					[208] fol. 60° to CA	
			210		[213] fol. 65° to CA	[211.5-225] numerous q-py-marcas vnlts. 20°-35° to CA
					[217-218] bx 30° to CA	[217-218] q-py-marc bx matrix.
			220		[222] fol 50° to CA	
		[230] lose chlorite clots				[225-230] com. to uncommon q-py-marcas vnlts.
		[231.2-234.5] incipient spots	230		[230] fol. 65° to CA	[230-240.7] sparse mnl'zn
		[234.5-242.8] "LST" spotted texture - densely vesicular. size to 5mm. Faint foliation 65° to CA			[239-245] fx common @ 30° & 40° to CA	
			240		[242.8] bx 25° to CA	[240.7-245] open crackle bx. q-grncly-s-infill. lok silicif.
		[245] foliation reestablished			[242.8-244] fol. 0° to CA	
					[244] fol. 60° to CA	[245-260] sparse mnl'zn.
					[245] fx sparse	
			250		[250] fol. 70° to CA // to fol., 25° & 35° against fol.	[250] 1' of q-cly bx infill w/ minor chlorite
					[260] fol. 65° to CA	
			260			

ANALYTICAL DATA						
FROM	TO	W	Au	Ag	Au2	A
189	193					
193	195					
195	198.6					
198.6	201					
201	205					
205	208.5					
208.5	211.5					
211.5	214.5					
214.5	217					
217	220					
220	223					
223	225					
225	230					
230	235					
235	240.7					
240.7	245					
245	250					
250	255					
255	260					

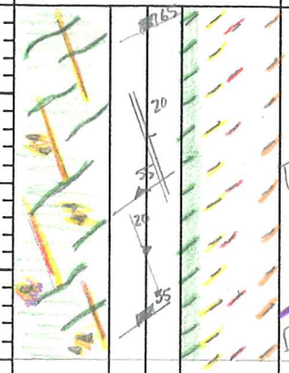
HOLE NUMBER D 327-98 PAGE 5 OF 6

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
198.6–350 TD		PLANAR/LAMINAR				
		265 foliation becomes faint.			265 fol. 60° to CA fxs common ~60° to CA	260-265 q-py-marc vnlts common. 30° to CA
			270			269-275 a few q-chl-marcas bx vnlts 1/4" wide 20° to CA
		279.5-282.5 vitrophyre text.	280		277.5 fxs uncommon 30° to CA	277.5-282.5 wk-mod arg, mod blch, numerous q-py marcas vnlts. 60°, 45°, 10° to CA
		282 PIMA				
		287-297 vitrophyre text.	290		289.8 fx conchoidal pattern	289-297 gently stretch w/ spots of sulfidic-silicif. few irregular q-s vnlts.
		297 foliation becomes prominent beyond bx	300		297 fx rare-chlor foliation vnlts. 297 bx 65° to CA 297 fol. 85° to CA	297 4" q matrix bx. 65° to CA 297- mineralization generally weak.
			310		305 fol. 75° to CA 310 fol. 50° to CA	309.5-313.5 zone of (gently 30° to CA) veining and open crackle bx. infill is q-grh-chl-py-marc-barite-chlor.
		313-317 poorly developed spotted texture	320		317 fxs common chlor fol. & veining 320 fol 50° to CA	313.5-325 veins & bx common. No barite
			330		330 fol 65° to CA	325-TD pick up zone of common q-chl-marcas-chlor. vnlts. 1/4" wide. 20° to CA.

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2	A
260	262.5					
262.5	265					
265	269					
269	272					
272	275					
275	277.5					
277.5	280					
280	282.5					
282.5	285					
285	289.8					
289.8	292.3					
292.3	295					
295	297					
297	301					
301	305					
305	309.5					
309.5	313.5					
313.5	317.5					
317.5	321.5					
321.5	325					
325	328					
328	331.5					

HOLE NUMBER D 329-98 PAGE 6 OF 6

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
198.6–350TD		PLANAR/LAMINAR 3369 PIMA [348] start chlorite clots after lithics(?) and specks after mafic phenos. 350TD	340 350		continue fx w/ vning & partings [340] fol 55 to CA [350] fol 55 to CA	continue q-cly-marcas-chlor. vnlts. as previous [337] continue 20° to CA vnlts, but pick up irregular bx seams w/ q-cly-marcas-chlor matrix, sub// to CA to ~60° to CA. Also marcas w/ blch selvage along partings.

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2	A
328	331.5					
331.5	335					
335	338.3					
338.3	341.3					
341.3	344.3					
344.3	346.8					
346.8	350					

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D 329-98 DATE: 11-09-98 LOGGED BY: WHITNEY PAGE 1 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)
0	5	44	100	0										
5	10	86	ground core 86	36										
10	20	97	97	60										
20	30	93	100	55										
30	40	95	97	63										
40	50	94	100	26										
50	60	97	97	46										
60	70	100	100	38										
70	80	96	100	25										
80	90	98	100	39										
90	100	97	97	58										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D 329-98 DATE: 11-09-98 LOGGED BY: WHITNEY PAGE 2 OF 4

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)
100	109	90	ground core 93	57										
109	119	103	ground core 103	61										
119	128	94	98	40										
128	135	79	89	39										
135	145	85	94	30										
145	155	95	97	45										
155	165	97	97	70										
165	175	87	91	36										
175	185	101	103	39										
185	195	97	97	61										
195	205	90	93	36										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D329-98 DATE: 11-09-98 LOGGED BY: WHITNEY PAGE 3 OF 4

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)
205	208.5	94	100	14										
208.5	215	63	93	6										
215	225	98	98	50										
225	235	95	95	52										
235	245	100	100	37										
245	255	80	93	43										
255	265	98	98	64										
265	275	95	98	49										
275	285	102	102	72										
285	295	70	100	41										
295	305	95	100	42										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D 329-98 DATE: 11-09-98 LOGGED BY: WHITNEY 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)
305	315	95	100	49										
315	325	97	100	49										
325	335	94	94	13										
335	345	98	106	38										
345	350	106	106	45										

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP051639

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-329-98 RECEIVED : 19 NOV 1998

No. SAMPLES : 104 REPORTED : 9 DEC 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 SP051639

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-329-98

REPORTED : 9 DEC 1998

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)	
D-329-98 0-1	0.005			0.07	
D-329-98 1.0-4.5	0.006			0.07	
D-329-98 4.5-7.6	0.003			0.04	
D-329-98 7.6-11.3	0.003			0.06	
D-329-98 11.3-14.2	0.001			0.05	
D-329-98 14.2-17.1	0.002			0.04	
D-329-98 17.1-21.0	0.008			0.06	
D-329-98 21-25	0.012			0.06	
D-329-98 25-30	0.001			0.02	
D-329-98 30.0-33.7	0.002			0.02	
D-329-98 33.7-38.5	0.010			0.04	
D-329-98 38.5-41.8	0.017			0.25	
D-329-98 41.8-46.2	0.007			0.09	
D-329-98 46.2-50.0	0.083			0.13	
D-329-98 50.0-53.3	0.020			0.07	
D-329-98 53.3-56.6	0.092		0.116	0.12	
D-329-98 56.6-60.0	0.019			0.07	
D-329-98 60-63	0.085		0.103	0.07	
D-329-98 63.0-66.5	0.025			0.06	
D-329-98 66.5-70.0	0.011			0.04	
D-329-98 70.0-73.7	0.181		0.128	0.37	77.1-91.9' =
D-329-98 73.7-77.1	0.062		0.061	0.08	14.8' @
D-329-98 77.1-81.6 4.5	0.273		0.187	0.79	0.260 Au
D-329-98 81.6-85.4 3.8	0.278		0.261	1.28	0.82 Ag
D-329-98 85.4-88.3 2.9	0.082		0.084	0.09	

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP051639

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-329-98

REPORTED : 9 DEC 1998

SAMPLES		Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)	
D-329-98 88.3-91.9	3.6	0.370		0.448	0.96	
D-329-98 91.9-94.5		0.126		0.121	0.08	
D-329-98 94.5-97.3		0.092		0.076	0.13	100 — 112 =
D-329-98 97.3-100.0		0.047			0.11	12' @
D-329-98 100.0-102.8	2.8	0.225		0.280	0.13	
D-329-98 102.8-106.2	3.4	0.077		0.086	0.12	0.184 Au
D-329-98 106.2-109.0	2.8	0.166		0.195	0.30	0.18 Ag
D-329-98 109-112	3	0.285		0.306	0.19	
D-329-98 112.0-115.5		0.043			0.40	
D-329-98 115.5-119.0		0.071		0.065	0.10	
D-329-98 119.0-122.5		0.082		0.092	0.13	
D-329-98 122.5-126.0		0.141		0.193	0.27	
D-329-98 126.0-129.5		0.168		0.243	0.20	
D-329-98 129.5-133.0		0.236		0.217	0.22	
D-329-98 133-137		0.041			0.17	
D-329-98 137.0-140.5		0.084		0.063	0.11	
D-329-98 140.5-144.0		0.133		0.109	0.15	
D-329-98 144.0-147.4		0.154		0.115	0.12	
D-329-98 147.4-150.5		0.039		0.051	0.16	
D-329-98 150.5-153.5		0.340		0.342	0.25	
D-329-98 153.5-155.0		0.119		0.157	0.39	
D-329-98 155-158		0.063		0.065	0.70	
D-329-98 158-161		0.086		0.148	0.12	
D-329-98 161-164		0.088		0.148	0.12	
D-329-98 164-167		0.028			0.07	

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP051639

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-329-98

REPORTED : 9 DEC 1998

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
D-329-98 167-171	0.048			0.82
D-329-98 171-175	0.026			0.09
D-329-98 175-178	0.087		0.100	0.10
D-329-98 178-182	0.026			0.04
D-329-98 182-186	0.013			0.10
D-329-98 186-189	0.079		0.088	0.18
D-329-98 189-193	0.049			0.08
D-329-98 193-195	0.071			0.11
D-329-98 195.0-198.6	0.271		0.305	0.14
D-329-98 198.6-201.0	0.130		0.107	0.09
D-329-98 201-205	0.101		0.136	0.06
D-329-98 205.0-208.5	0.037	0.061		0.07
D-329-98 208.5-211.5	0.025	0.072		0.08
D-329-98 211.5-214.5	0.038			0.10
D-329-98 214.5-217.0	0.033	0.035		0.06
D-329-98 217-220	0.048			0.07
D-329-98 220-223	0.072		0.136	0.14
D-329-98 223-225	0.200		0.260	0.42
D-329-98 225-230	0.190		0.167	0.17
D-329-98 230-235	0.100		0.101	0.13
D-329-98 235.0-240.7	0.032			0.07
D-329-98 240.7-245.0	0.241		0.213	0.42
D-329-98 245-250	0.028			1.79
D-329-98 250-255	0.037			0.20
D-329-98 255-260	0.025			0.11

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP051639

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-329-98

REPORTED : 9 DEC 1998

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
D-329-98 260.0-262.5	0.056		0.074	0.55
D-329-98 262.5-265.0	0.020			0.10
D-329-98 265-269	0.026			0.06
D-329-98 269-272	0.043			0.09
D-329-98 272-275	0.037			0.14
D-329-98 275.0-277.5	0.024			0.11
D-329-98 277.5-280.0	0.280		0.271	0.14
D-329-98 280.0-282.5	0.047			0.54
D-329-98 282.5-285.0	0.029			11.32
D-329-98 285.0-289.8	0.015			0.17
D-329-98 289.8-292.3	0.018			0.11
D-329-98 292.3-295.0	0.017			0.06
D-329-98 295-297	0.045			0.08
D-329-98 297-301	0.007			0.05
D-329-98 301-305	0.008			0.07
D-329-98 305.0-309.5	0.001			0.03
D-329-98 309.5-313.5	0.018			0.06
D-329-98 313.5-317.5	0.041			0.11
D-329-98 317.5-321.5	0.058		0.064	0.13
D-329-98 321.5-325.0	0.023			0.07
D-329-98 325-328	0.006			0.10
D-329-98 328.0-331.5	0.019			0.20
D-329-98 331.5-335.0	0.119		0.068	0.30
D-329-98 335.0-338.3	0.073		0.077	0.85
D-329-98 338.3-341.3	0.091		0.086	0.13

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP051639

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-329-98

REPORTED : 9 DEC 1998

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
D-329-98 341.3-344.3	0.017			0.09
D-329-98 344.3-346.8	0.017			0.10
D-329-98 346.8-350.0	0.129		0.162	0.32
46618 ✓ in book	0.549			2.84

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 0051639-IN
INVOICE DATE: 12/09/98

INVOICE TO:
THE ROSEBUD MINING CO., LLC
HECLA MINING COMPANY, OPERATOR
P.O. BOX 2610
WINNEMUCCA NV 89446

THE ROSEBUD MINING CO., LLC
HECLA MINING COMPANY, OPERATOR
P.O. BOX 2610
WINNEMUCCA NV 89446

CUSTOMER P.O.	PROJECT	TERMS
D-329-98	DEVELOPMENT	NET 30 - DUE IN U.S. DOLLARS

QUANTITY	DESCRIPTION	PRICE	AMOUNT
104	SAMPLES RECEIVED	.00	.00
103	JAW CRUSHING CHARGE	1.30	133.90
103	COARSE MILLING CHARGE	4.50	463.50
103	SPLITTING CHARGE	2.40	247.20
103	RING MILLING CHARGE	2.00	206.00
104	Au (1 A.T. FIRE ASSAY)	8.00	832.00
45	Au ANALYSES/GRAVIMETRIC	8.75	393.75
104	HYDROCHLORIC/NITRIC DIGESTION	2.00	208.00
104	Ag ANALYSES	1.00	104.00
2	Ag (ore grade) ANALYSES	5.00	10.00

86-5110-477
KAA

NET INVOICE:	2,598.05
LESS DISCOUNT:	519.67
FREIGHT:	.00
INVOICE TOTAL:	2,078.38

xAMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP051639

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-329-98 RECEIVED : 19 NOV 1998

No. SAMPLES : 104 REPORTED : 9 DEC 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 SP051639

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-329-98

REPORTED : 9 DEC 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-329-98 0-1	0.005			0.07
D-329-98 1.0-4.5	0.006			0.07
D-329-98 4.5-7.6	0.003			0.04
D-329-98 7.6-11.3	0.003			0.06
D-329-98 11.3-14.2	0.001			0.05
D-329-98 14.2-17.1	0.002			0.04
D-329-98 17.1-21.0	0.008			0.06
D-329-98 21-25	0.012			0.06
D-329-98 25-30	0.001			0.02
D-329-98 30.0-33.7	0.002			0.02
D-329-98 33.7-38.5	0.010			0.04
D-329-98 38.5-41.8	0.017			0.25
D-329-98 41.8-46.2	0.007			0.09
D-329-98 46.2-50.0	0.083			0.13
D-329-98 50.0-53.3	0.020			0.07
D-329-98 53.3-56.6	0.092		0.116	0.12
D-329-98 56.6-60.0	0.019			0.07
D-329-98 60-63	0.085		0.103	0.07
D-329-98 63.0-66.5	0.025			0.06
D-329-98 66.5-70.0	0.011			0.04
D-329-98 70.0-73.7	0.181		0.128	0.37
D-329-98 73.7-77.1	0.062		0.061	0.08
D-329-98 77.1-81.6	0.273		0.187	0.79
D-329-98 81.6-85.4	0.278		0.261	1.28
D-329-98 85.4-88.3	0.082		0.084	0.09

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP051639

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-329-98

REPORTED : 9 DEC 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-329-98 88.3-91.9	0.370		0.448	0.96
D-329-98 91.9-94.5	0.126		0.121	0.08
D-329-98 94.5-97.3	0.092		0.076	0.13
D-329-98 97.3-100.0	0.047			0.11
D-329-98 100.0-102.8	0.225		0.280	0.13
D-329-98 102.8-106.2	0.077		0.086	0.12
D-329-98 106.2-109.0	0.166		0.195	0.30
D-329-98 109-112	0.285		0.306	0.19
D-329-98 112.0-115.5	0.043			0.40
D-329-98 115.5-119.0	0.071		0.065	0.10
D-329-98 119.0-122.5	0.082		0.092	0.13
D-329-98 122.5-126.0	0.141		0.193	0.27
D-329-98 126.0-129.5	0.168		0.243	0.20
D-329-98 129.5-133.0	0.236		0.217	0.22
D-329-98 133-137	0.041			0.17
D-329-98 137.0-140.5	0.084		0.063	0.11
D-329-98 140.5-144.0	0.133		0.109	0.15
D-329-98 144.0-147.4	0.154		0.115	0.12
D-329-98 147.4-150.5	0.039		0.051	0.16
D-329-98 150.5-153.5	0.340		0.342	0.25
D-329-98 153.5-155.0	0.119		0.157	0.39
D-329-98 155-158	0.063		0.065	0.70
D-329-98 158-161	0.086		0.148	0.12
D-329-98 161-164	0.088		0.148	0.12
D-329-98 164-167	0.028			0.07

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP051639

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-329-98

REPORTED : 9 DEC 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-329-98 167-171	0.048			0.82
D-329-98 171-175	0.026			0.09
D-329-98 175-178	0.087		0.100	0.10
D-329-98 178-182	0.026			0.04
D-329-98 182-186	0.013			0.10
D-329-98 186-189	0.079		0.088	0.18
D-329-98 189-193	0.049			0.08
D-329-98 193-195	0.071			0.11
D-329-98 195.0-198.6	0.271		0.305	0.14
D-329-98 198.6-201.0	0.130		0.107	0.09
D-329-98 201-205	0.101		0.136	0.06
D-329-98 205.0-208.5	0.037	0.061		0.07
D-329-98 208.5-211.5	0.025	0.072		0.08
D-329-98 211.5-214.5	0.038			0.10
D-329-98 214.5-217.0	0.033	0.035		0.06
D-329-98 217-220	0.048			0.07
D-329-98 220-223	0.072		0.136	0.14
D-329-98 223-225	0.200		0.260	0.42
D-329-98 225-230	0.190		0.167	0.17
D-329-98 230-235	0.100		0.101	0.13
D-329-98 235.0-240.7	0.032			0.07
D-329-98 240.7-245.0	0.241		0.213	0.42
D-329-98 245-250	0.028			1.79
D-329-98 250-255	0.037			0.20
D-329-98 255-260	0.025			0.11

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP051639

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-329-98

REPORTED : 9 DEC 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-329-98 260.0-262.5	0.056		0.074	0.55
D-329-98 262.5-265.0	0.020			0.10
D-329-98 265-269	0.026			0.06
D-329-98 269-272	0.043			0.09
D-329-98 272-275	0.037			0.14
D-329-98 275.0-277.5	0.024			0.11
D-329-98 277.5-280.0	0.280		0.271	0.14
D-329-98 280.0-282.5	0.047			0.54
D-329-98 282.5-285.0	0.029			11.32
D-329-98 285.0-289.8	0.015			0.17
D-329-98 289.8-292.3	0.018			0.11
D-329-98 292.3-295.0	0.017			0.06
D-329-98 295-297	0.045			0.08
D-329-98 297-301	0.007			0.05
D-329-98 301-305	0.008			0.07
D-329-98 305.0-309.5	0.001			0.03
D-329-98 309.5-313.5	0.018			0.06
D-329-98 313.5-317.5	0.041			0.11
D-329-98 317.5-321.5	0.058		0.064	0.13
D-329-98 321.5-325.0	0.023			0.07
D-329-98 325-328	0.006			0.10
D-329-98 328.0-331.5	0.019			0.20
D-329-98 331.5-335.0	0.119		0.068	0.30
D-329-98 335.0-338.3	0.073		0.077	0.85
D-329-98 338.3-341.3	0.091		0.086	0.13

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP051639

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-329-98

REPORTED : 9 DEC 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-329-98 341.3-344.3	0.017			0.09
D-329-98 344.3-346.8	0.017			0.10
D-329-98 346.8-350.0	0.129		0.162	0.32
46618	0.549			2.84

xAMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP051639

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-329-98

No. SAMPLES : 104

MAIN SAMPLE TYPE : DRILL CORE

RECEIVED : 19 NOV 1998

REPORTED : 9 DEC 1998

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 SP051639

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-329-98

REPORTED : 9 DEC 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-329-98 0-1	0.005			0.07
D-329-98 1.0-4.5	0.006			0.07
D-329-98 4.5-7.6	0.003			0.04
D-329-98 7.6-11.3	0.003			0.06
D-329-98 11.3-14.2	0.001			0.05
D-329-98 14.2-17.1	0.002			0.04
D-329-98 17.1-21.0	0.008			0.06
D-329-98 21-25	0.012			0.06
D-329-98 25-30	0.001			0.02
D-329-98 30.0-33.7	0.002			0.02
D-329-98 33.7-38.5	0.010			0.04
D-329-98 38.5-41.8	0.017			0.25
D-329-98 41.8-46.2	0.007			0.09
D-329-98 46.2-50.0	0.083			0.13
D-329-98 50.0-53.3	0.020			0.07
D-329-98 53.3-56.6	0.092		0.116	0.12
D-329-98 56.6-60.0	0.019			0.07
D-329-98 60-63	0.085		0.103	0.07
D-329-98 63.0-66.5	0.025			0.06
D-329-98 66.5-70.0	0.011			0.04
D-329-98 70.0-73.7	0.181		0.128	0.37
D-329-98 73.7-77.1	0.062		0.061	0.08
D-329-98 77.1-81.6	0.273		0.187	0.79
D-329-98 81.6-85.4	0.278		0.261	1.28
D-329-98 85.4-88.3	0.082		0.084	0.09

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP051639

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-329-98

REPORTED : 9 DEC 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-329-98 88.3-91.9	0.370		0.448	0.96
D-329-98 91.9-94.5	0.126		0.121	0.08
D-329-98 94.5-97.3	0.092		0.076	0.13
D-329-98 97.3-100.0	0.047			0.11
D-329-98 100.0-102.8	0.225		0.280	0.13
D-329-98 102.8-106.2	0.077		0.086	0.12
D-329-98 106.2-109.0	0.166		0.195	0.30
D-329-98 109-112	0.285		0.306	0.19
D-329-98 112.0-115.5	0.043			0.40
D-329-98 115.5-119.0	0.071		0.065	0.10
D-329-98 119.0-122.5	0.082		0.092	0.13
D-329-98 122.5-126.0	0.141		0.193	0.27
D-329-98 126.0-129.5	0.168		0.243	0.20
D-329-98 129.5-133.0	0.236		0.217	0.22
D-329-98 133-137	0.041			0.17
D-329-98 137.0-140.5	0.084		0.063	0.11
D-329-98 140.5-144.0	0.133		0.109	0.15
D-329-98 144.0-147.4	0.154		0.115	0.12
D-329-98 147.4-150.5	0.039		0.051	0.16
D-329-98 150.5-153.5	0.340		0.342	0.25
D-329-98 153.5-155.0	0.119		0.157	0.39
D-329-98 155-158	0.063		0.065	0.70
D-329-98 158-161	0.086		0.148	0.12
D-329-98 161-164	0.088		0.148	0.12
D-329-98 164-167	0.028			0.07

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP051639

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-329-98

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SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-329-98 167-171	0.048			0.82
D-329-98 171-175	0.026			0.09
D-329-98 175-178	0.087		0.100	0.10
D-329-98 178-182	0.026			0.04
D-329-98 182-186	0.013			0.10
D-329-98 186-189	0.079		0.088	0.18
D-329-98 189-193	0.049			0.08
D-329-98 193-195	0.071			0.11
D-329-98 195.0-198.6	0.271		0.305	0.14
D-329-98 198.6-201.0	0.130		0.107	0.09
D-329-98 201-205	0.101		0.136	0.06
D-329-98 205.0-208.5	0.037	0.061		0.07
D-329-98 208.5-211.5	0.025	0.072		0.08
D-329-98 211.5-214.5	0.038			0.10
D-329-98 214.5-217.0	0.033	0.035		0.06
D-329-98 217-220	0.048			0.07
D-329-98 220-223	0.072		0.136	0.14
D-329-98 223-225	0.200		0.260	0.42
D-329-98 225-230	0.190		0.167	0.17
D-329-98 230-235	0.100		0.101	0.13
D-329-98 235.0-240.7	0.032			0.07
D-329-98 240.7-245.0	0.241		0.213	0.42
D-329-98 245-250	0.028			1.79
D-329-98 250-255	0.037			0.20
D-329-98 255-260	0.025			0.11

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP051639

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-329-98

REPORTED : 9 DEC 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-329-98 260.0-262.5	0.056		0.074	0.55
D-329-98 262.5-265.0	0.020			0.10
D-329-98 265-269	0.026			0.06
D-329-98 269-272	0.043			0.09
D-329-98 272-275	0.037			0.14
D-329-98 275.0-277.5	0.024			0.11
D-329-98 277.5-280.0	0.280		0.271	0.14
D-329-98 280.0-282.5	0.047			0.54
D-329-98 282.5-285.0	0.029			11.32
D-329-98 285.0-289.8	0.015			0.17
D-329-98 289.8-292.3	0.018			0.11
D-329-98 292.3-295.0	0.017			0.06
D-329-98 295-297	0.045			0.08
D-329-98 297-301	0.007			0.05
D-329-98 301-305	0.008			0.07
D-329-98 305.0-309.5	0.001			0.03
D-329-98 309.5-313.5	0.018			0.06
D-329-98 313.5-317.5	0.041			0.11
D-329-98 317.5-321.5	0.058		0.064	0.13
D-329-98 321.5-325.0	0.023			0.07
D-329-98 325-328	0.006			0.10
D-329-98 328.0-331.5	0.019			0.20
D-329-98 331.5-335.0	0.119		0.068	0.30
D-329-98 335.0-338.3	0.073		0.077	0.85
D-329-98 338.3-341.3	0.091		0.086	0.13

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP051639

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-329-98

REPORTED : 9 DEC 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-329-98 341.3-344.3	0.017			0.09
D-329-98 344.3-346.8	0.017			0.10
D-329-98 346.8-350.0	0.129		0.162	0.32
46618	0.549			2.84

SP

SUBMITTAL FORM

American Assay Laboratories

Geochemical • Environmental • Metallurgical

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Company: ROSEBUD MINING LLC

Address: PO 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: 11/17/98 Number of Samples: 103

RESULTS REPORTED IN: ppm [ ] ppb [ ] opt [ ] Au/Ag according to Rosebud Mine protocol

D329-98 SAMPLE IDENTIFICATION				TYPE	ELEMENTS REQUIRED		
0-1	53.3-56.6	102.8-106.2	153.5-155		201-205	260-262.5	305-309.5
1-4.5	56.6-60	106.2-109	155-158		205-208.5	262.5-265	309.5-313.5
4.5-7.6	60-63	109-112	158-161		208.5-211.5	265-269	313.5-317.5
7.6-11.3	63-66.5	112-115.5	161-164		211.5-214.5	269-272	317.5-321.5
11.3-14.2	66.5-70	115.5-119	164-167		214.5-217	272-275	321.5-325
14.2-17.1	70-73.7	119-122.5	167-171		217-220	275-277.5	325-328
17.1-21	73.7-77.1	122.5-126	171-175		220-223	277.5-280	328-331.5
21-25	77.1-81.6	126-129.5	175-178		223-225	280-282.5	331.5-335
25-30	81.6-85.4	129.5-133	178-182		225-230	282.5-285	335-338.3
30-33.7	85.4-88.3	133-137	182-186		230-235	285-289.8	338.3-341.3
33.7-38.5	88.3-91.9	137-140.5	186-189		235-240.7	289.8-292.3	341.3-344.3
38.5-41.8	91.9-94.5	140.5-144	189-193		240.7-245	292.3-295	344.3-346.8
41.8-46.2	94.5-97.3	144-147.4	193-195		245-250	295-297	346.8-350 TD
46.2-50	97.3-100	147.4-150.5	195-198.6		250-255	297-301	
50-53.3	100-102.8	150.5-153.5	198.6-201		255-260	301-305	

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

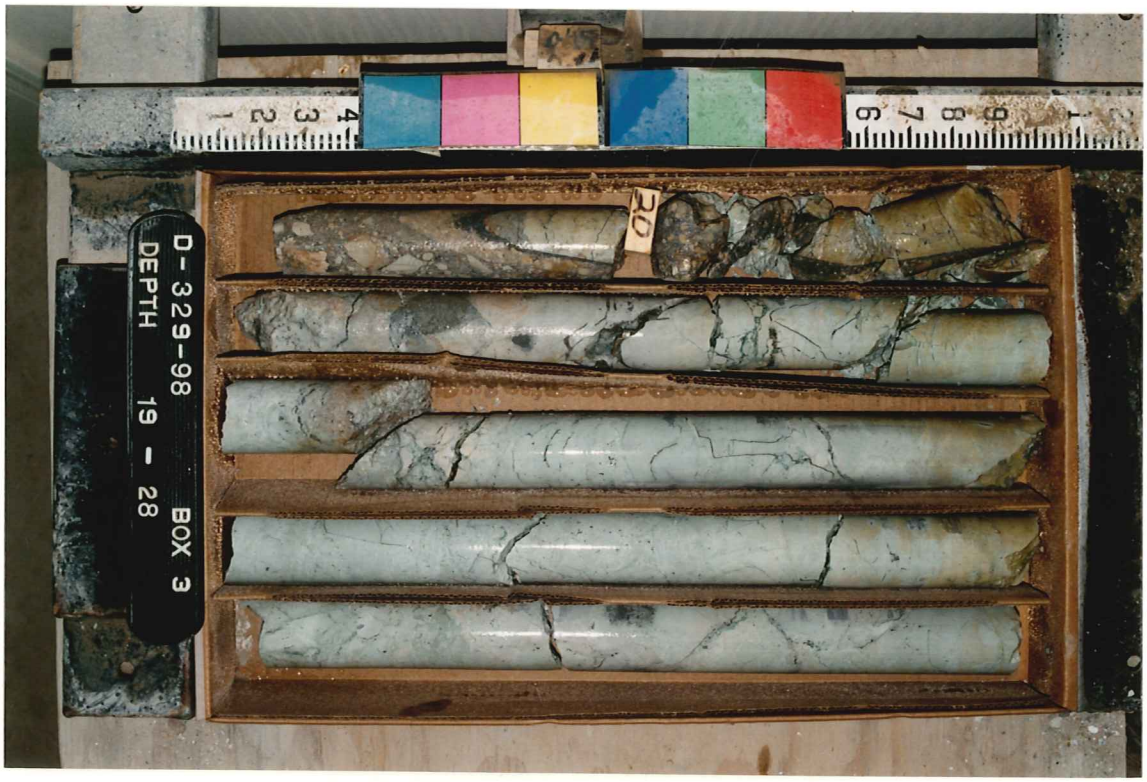
Comments:

CLIENT FILE COPY

D-329-98	30	31	123.7
	175	31	123.2
	350	31	123.2

D-329-98 BOX 2
DEPTH 9_5 - 19
10

D-329-98 BOX 1
DEPTH 0 - 9_5
5

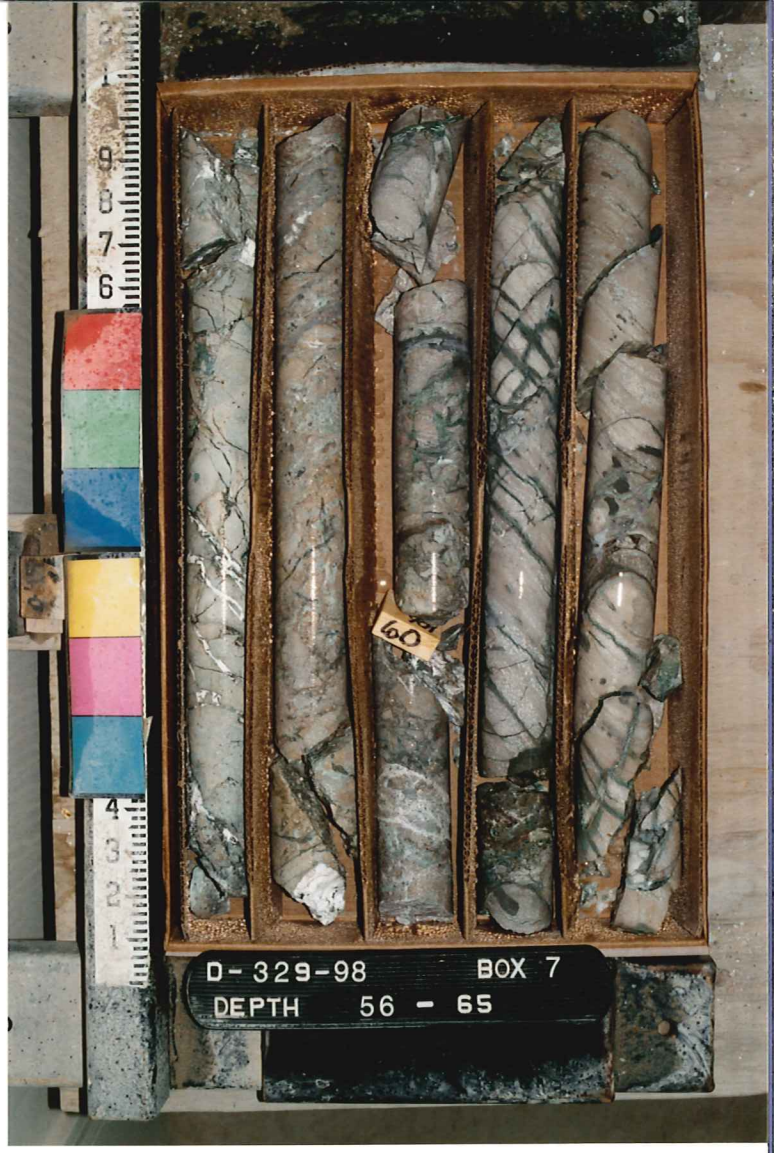

D-329-98 BOX 3
DEPTH 19 - 28
20

40
D-329-98 BOX 5
DEPTH 38 - 47.5

30
D-329-98 BOX 4
DEPTH 28 - 38

50
D-329-98 BOX 6
DEPTH 47.5 - 56

70
D-329-98 BOX 8
DEPTH 65 - 74


60
D-329-98 BOX 7
DEPTH 56 - 65

D-329-98 BOX 9
DEPTH 74 - 83
80

D-329-98 BOX 11
DEPTH 92 - 101
100

D-329-98 BOX 10
DEPTH 83 - 92
90

D-329-98 BOX 12
DEPTH 101 - 111
109

D-329-98 BOX 14
DEPTH 120 - 129
128

D-329-98 BOX 13
DEPTH 111 - 120
119

D-329-98 BOX 15
DEPTH 129 - 139
135

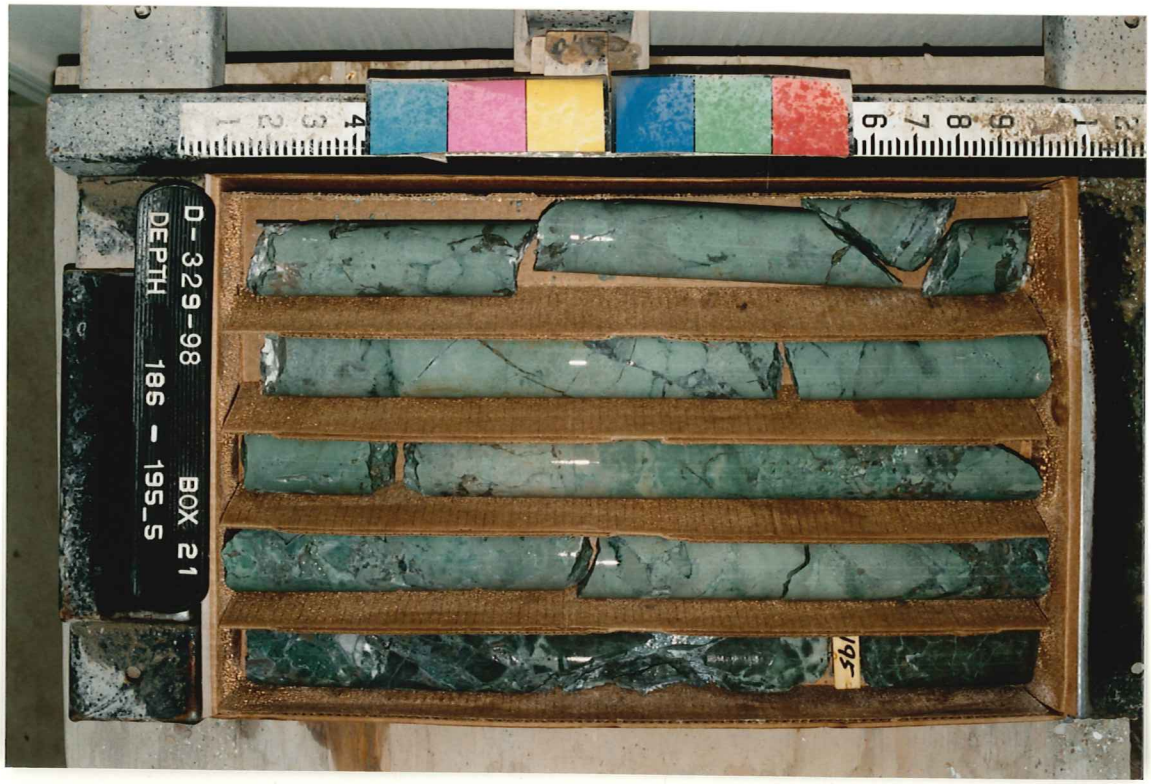
155
D-329-98 BOX 17
DEPTH 148 - 157

145
D-329-98 BOX 16
DEPTH 139 - 148

D-329-98 BOX 18
DEPTH 157 - 167
165

D-329-98 BOX 20
DEPTH 177 - 186
185

D-329-98 BOX 19
DEPTH 167 - 177
175


D-329-98 BOX 21
DEPTH 186 - 195_5
195

208.5
D-329-98 BOX 23
DEPTH 205_5 - 215

205
D-329-98 BOX 22
DEPTH 195_5 - 205_5

215
D-329-98 BOX 24
DEPTH 215 - 223

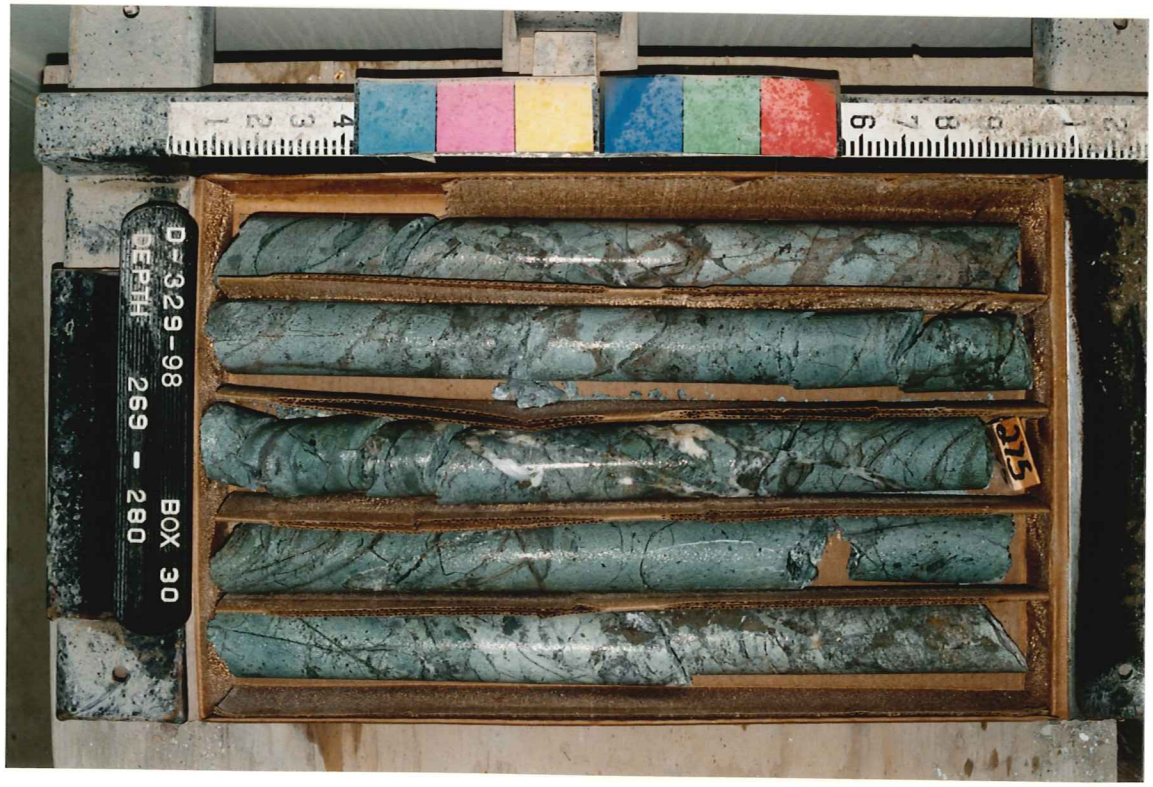
235
D-329-98 BOX 26
DEPTH 233 - 241

225
D-329-98 BOX 25
DEPTH 223 - 233

245
D-329-98 BOX 27
DEPTH 241 - 251

D-329-98
BOX 29
DEPTH 260 - 269
265

D-329-98
BOX 28
DEPTH 251 - 260
255


D-329-98
BOX 30
DEPTH 269 - 280
275

295
D-329-98 BOX 32
DEPTH 288 - 297

285
D-329-98 BOX 31
DEPTH 280 - 288

D-329-98 BOX 33
DEPTH 297 - 306
305

D-329-98 BOX 35
DEPTH 315_5 - 325

315
D-329-98 BOX 34
DEPTH 306 - 315_5

325
D-329-98 BOX 36
DEPTH 325 - 333_5

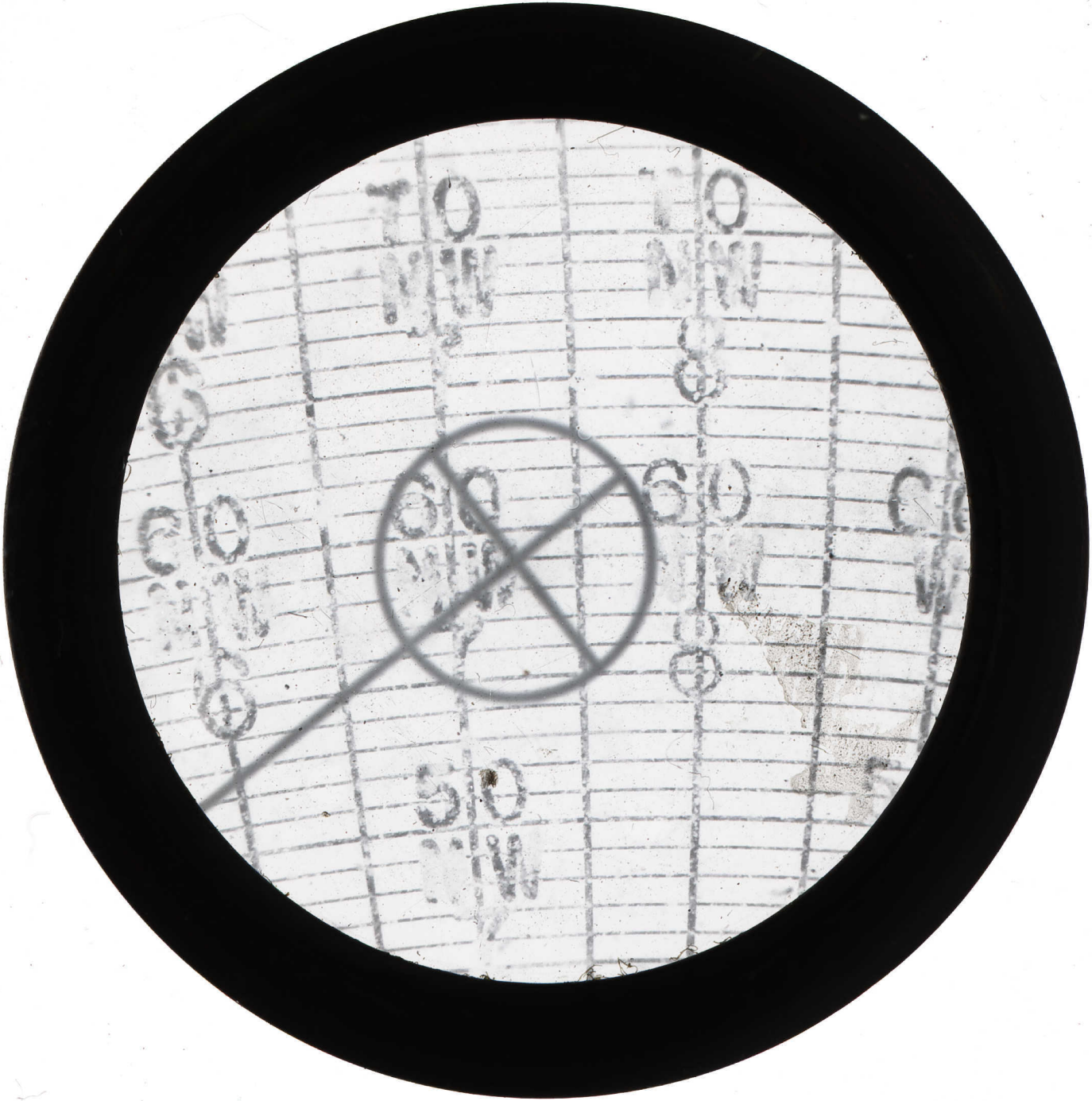
350
345
D-329-98 BOX 38
DEPTH 343 - 350 TD

335
335
D-329-98 BOX 37
DEPTH 333_5 - 343

SINGLE SHOT
PHOTO DISC RECORD

COMPANY Hecla
WELL NAME D-329-98
LEASE
TAKEN BY Jerome
DEPTH 30'
DATE 10-17-98
DRIFT ANGLE
DIRECTION
TYPE
JOB NO. 1

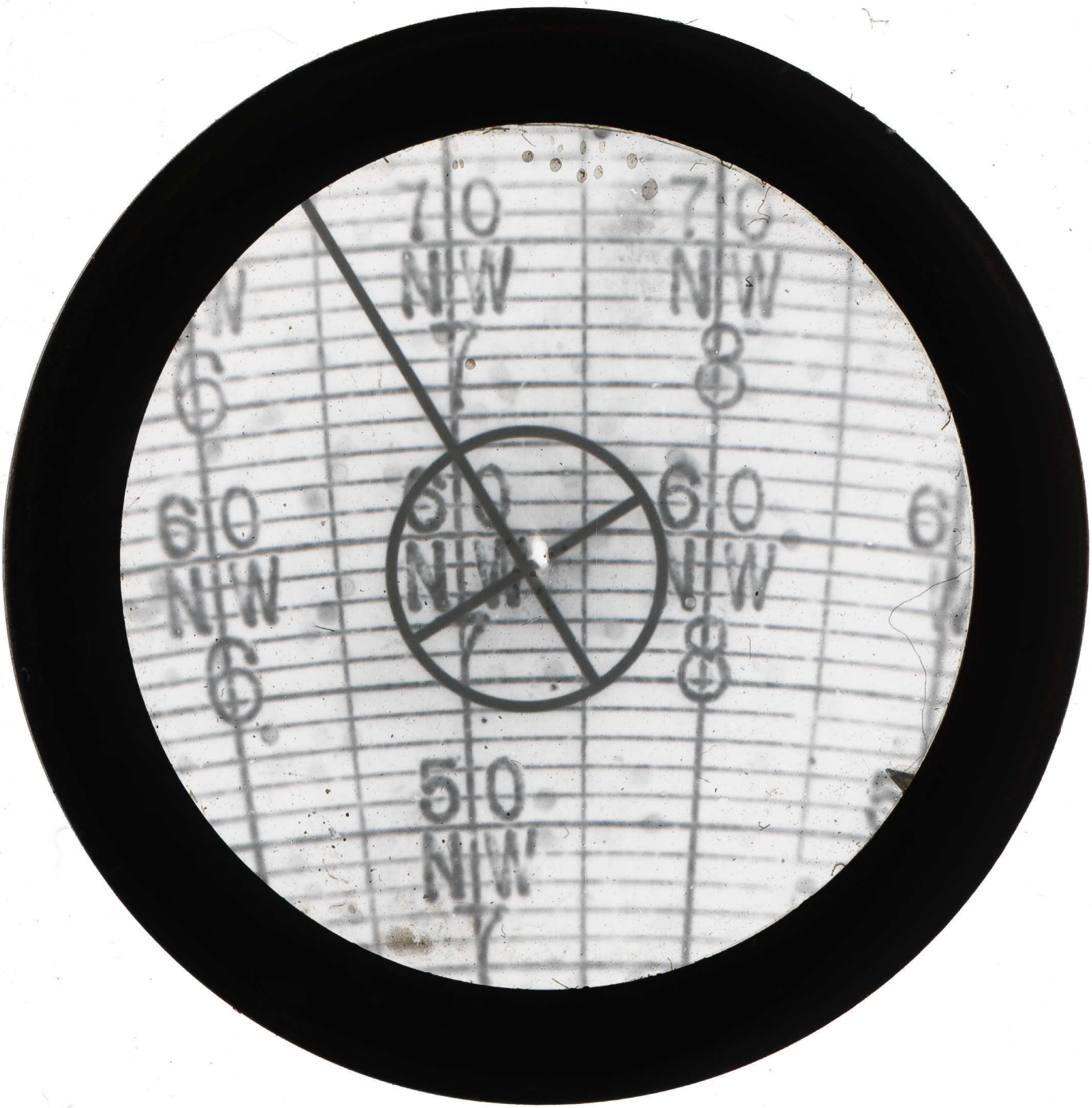
HI-1408



SINGLE SHOT
PHOTO DISC RECORD

COMPANY Hecla
WELL NAME D-329-58
LEASE
TAKEN BY Jerome
DEPTH 175'
DATE 10-17-58
DRIFT ANGLE
DIRECTION
TYPE
JOB NO. 1

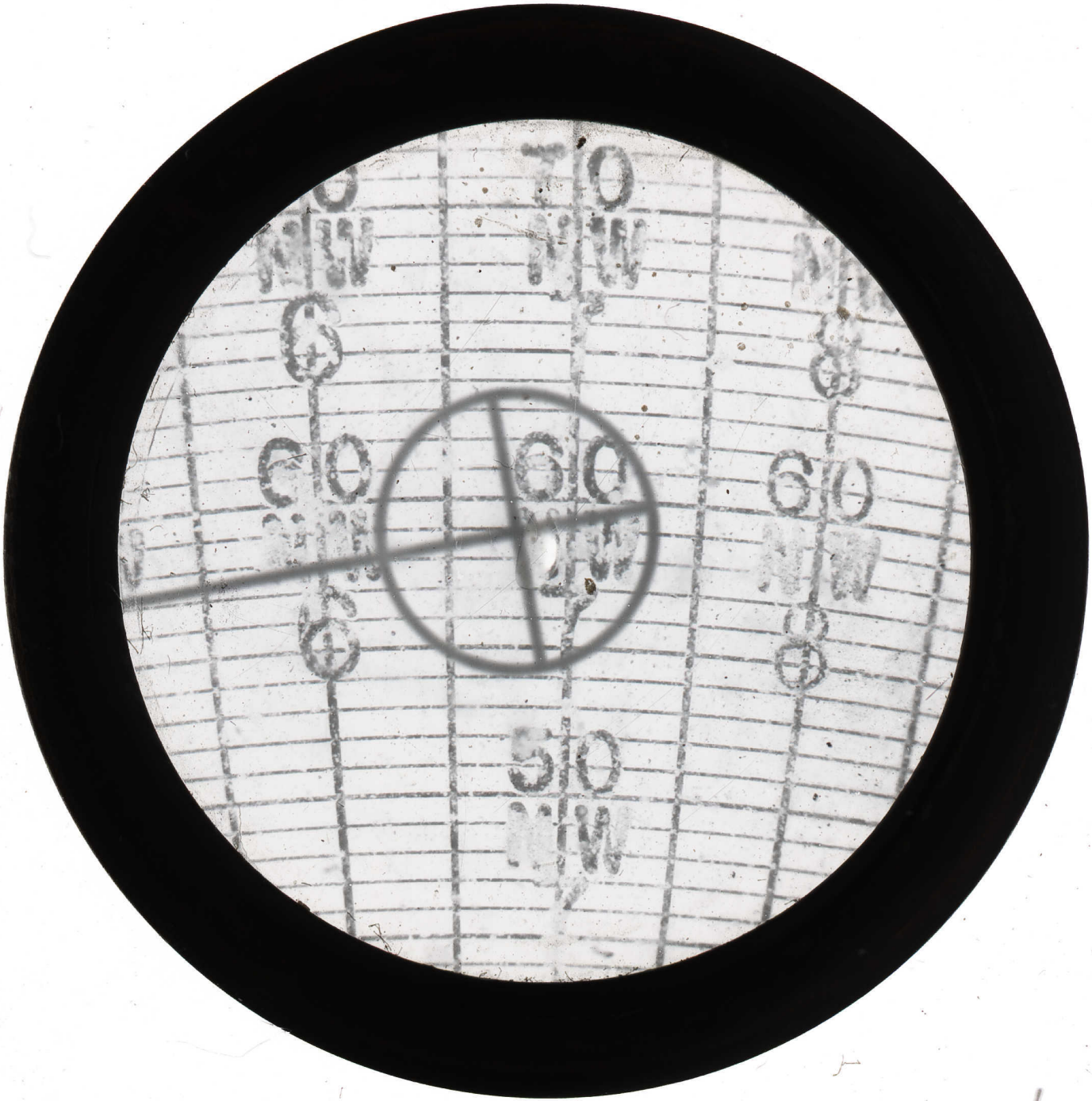
HI-1408


70
NW
7
70
NW
8
60
NW
6
60
NW
7
60
NW
8
50
NW
7

SINGLE SHOT
PHOTO DISC RECORD

COMPANY Hecla
WELL NAME D-329-98
LEASE
TAKEN BY Jerome
DEPTH ~~1,000~~ 8350'
DATE 10-17-98
DRIFT ANGLE
DIRECTION
TYPE
JOB NO. 1

HI-1408


70
MW
60
MW
50
MW