60001227

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-327-98
AUTHOR	S. King; K. Allen; D. Mackerrow
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 297' receipt; handwritten notes; downhole camera images 39p. 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-327-98

60001227 4010

6000 1227

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

BaSO4

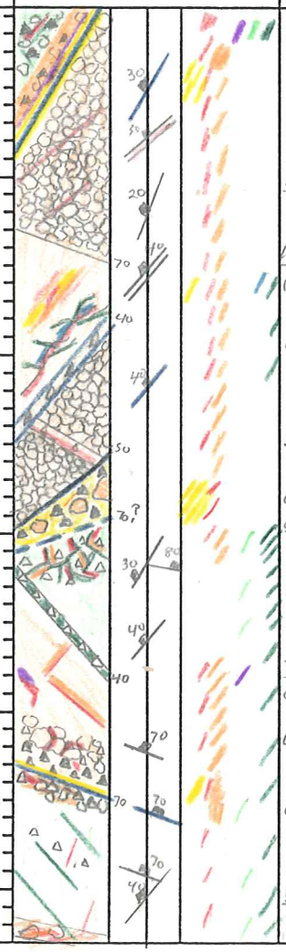
Hecla MINING COMPANY

ROSEBUD PROJECT
DIAMOND DRILL LOG

HOLE NUMBER	D-327-98	LOCATION	STOPE 50 SEC 1500
PAGE 1 OF 5		NORTHING	
DATE	11-9-98	EASTING	
LOGGED BY	D.G. MacKerrow	ELEVATION	
SCALE	1" = 10'	AZIMUTH	125
TOTAL DEPTH	297	INCLINATION	+10

REMARKS: Drilled 10/14/98

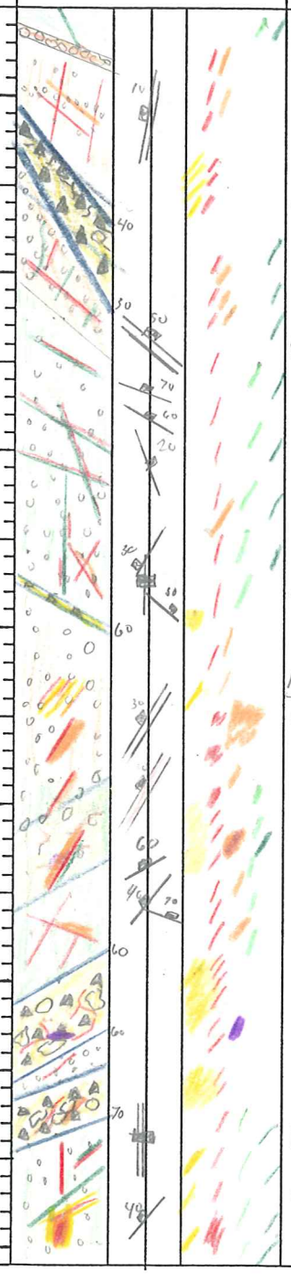
LITH	OX/RE	LITHOLOGY	FT	STRUCTURE	ALTERATION AND MINERALIZATION
TOS ↓	Red ↓	0-30 TOS Package of rock with fine grained volcanic flows similar to SPLAT but also containing "Lapilli like" or medium to course sedimentary breccias. 0-4.8 Fine grained volcanic flow approaching FGM in texture pale green-gray. 4.6-13.8, 22-30 Sedimentary breccia (?) medium grain (≤ Pebble) well sorted. Clast to mildly matrix supported within this run 1' section of fine grained pinkish brown rocks	10 20 30 40 50	Fault 0-4.8 at 30 TCA Clasts are angular to subrounded. Significant Rotation with moderate expansion 5.8-13.8 Py/marc. veins at 50° TCA 16.1-22 Increasing fracturing grading through crackle Bxa to milled Bxa at small fault at 22'. 27.5-30 Fault Breccias with subrounded clast up to cobble size Silica has replace Volcanic clay matrix of Sedimentary breccia, Matrix supported breccia 30-32 Shattered and crackle Bxa 41-43.9 Gradual increase in breccia texture until 43.7 where silicified milled Bxa begins. Silica ends @ 43.9 51.9-52.7 Heavy fracture with white clay up to 1"	0-2.5 Drozy qtz and shiny Pyrite in vugs Chloritic clay matrix marcasite and pyrite in veins, Propylitic and chloritic alteration. 2.5-5.8 Silicification of fault bxa from 4-5.8 Similar alteration to 0-2.5 also present. Barite on fracture at 4.4' 5.8-13.8 Argillized Sedimentary Bxa, clast are soft sulfide veinlets are present 13.8-16.1 Argillized flow with white clay/calcite VN with marcasite blades 22-27.5 marcasite blades show possible foliation in sedimentary breccia at 30° TCA 27.5-30 SILICIFIED Fault Bxa with Argillized clast 30-32 Chlorite, Py, marc. and clay on fracture 36.5-43.9 Increasing Argillization up to silicified fault surface. Barite, Py, marc. and clays. From 45 chlorite leaches from fractures forming Green halos.
FGM ↓		30-43.9 FINE GRAINED MASSIVE Very fine grained pale greenish gray flow No internal foliation. Welded to a slightly glassy texture. Rock is shattered with chlorite on all fractures. Argillization begins giving a rougher surface at 36.5' Ghost Breccia texture begins at 41 feet and increases in fault contact with SPLAT			
SPLAT ↓		43.9-228.8 SLIGHTLY PLANAR LAMINAR Fine to medium texture flow Locally verticals are small and evenly Distributed. Heavy white clay veining 51.9-52.7			



ANALYTICAL DATA

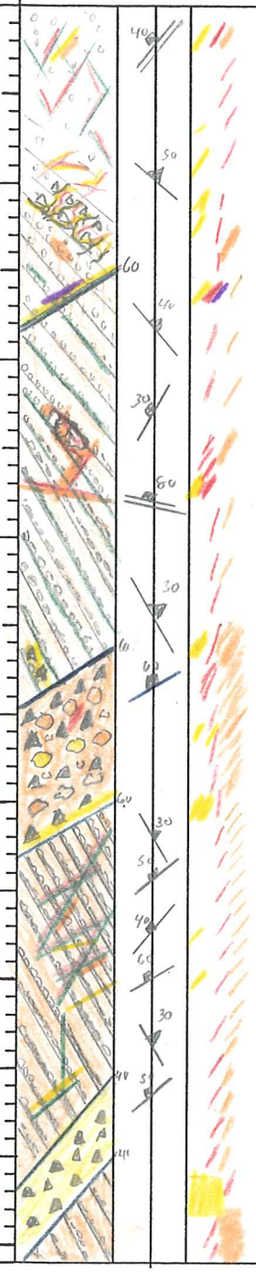
FROM	TO	W	Au	Ag	Au2	Ag
0	2.5					
2.5	5.8					
5.8	10					
10	13.8					
13.8	16.1					
16.1	20					
20	22					
22	25.5					
25.5	27.5					
27.5	30					
30	34					
34	36.5					
36.5	40					
40	43.9					
43.9	47					
47	51.9					
51.9	52.7					

HOLE NUMBER D-327-98 PAGE 2 OF 5

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
SPLAT ↓	Red ↓	43.9–228.8 SLIGHTLY PLANAR LAMINAR Vesicular Flow continues weak to no Foliation to vesiculs From 63.1 vesiculs increase and are evenly distributed through there core with only minor variation in density 88.5–105 Sulfide veins of marcasite and pyrite noticeably increase. The expansion of fractures form thicker veins then normally observed 105–113.7. Breccia zones contain nonsilicified short internal intervals with no breccia. Barite located at 108.6 formed ½" square cubes in open fracture in the breccia 118.7–122.7 OPEN FRACTURE with Drozy QTZ and Marcasite Portions of the open fracture contains the "Ducks butter clay" at 122'	50 60 70 80 90 100 110 120 Pimo 74.5 Pimo 91		58.5 – 62 Gradiational Breccia From crackle Bxa to milled Bxa at base 62.4 – 62.9 SILICA Healed milled Bxa 83.2 – 83.6 Silica healed milled Breccia 95–105 INCREASED FRACTURING 105–109.4 CRACKLE AND MOSAIC BXA SILICA HEALED Clast to matrix supported 119 – 127.7 Open fractures with Drozy QTZ and marc. in Vug.	51.9–52.7 Heavy white clay moderate marcasite 54–58.5 Marcasite/Py Veins 63.1–67.9 INCREASED Argillization and chlorite veins 72.4 – 75.8 white clay (DUCKBUTTER) on fractures with marcasite 75.8 – 80 "Shiny" Pyrite in open vugs 83.8 – 88 Mistatch with only .5' rubble for sample 88–91.9 Heavy Marc. Veins with 1" thick white clay veins. 94.7 ½" Marc./Py vein with "Ducksbutter", Traces of chlorite in vein 95–105 Marc./Py Filled Fractures with "Ducksbutter" and Illite. 105–113.7 Silica Healed Breccias with Marc., Clay and barite on fractures 113.7–118.7 Marcasite Py vein 0° TCA white clay with Marc. Blades QTZ marc. veinlets 116.5. 118.7–122.7 OPEN VUG 1" wide with Drozy QTZ and bladed Marc.

ANALYTICAL DATA						
FROM	TO	W	Au	Ag	Au2	A
47	51.9					
51.9	54					
54	58.5					
58.5	60					
60	63.1					
63.1	67.9					
67.9	72.4					
72.4	75.8					
75.8	80					
80	83.8					
83.8	88					
88	91.9					
91.9	95		0.135			
95	100		0.579			
100	105		0.295			
105	109.4					
109.4	113.7					
113.7	118.7					
118.7	122.7					

HOLE NUMBER D-32298 PAGE 3 OF 5

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
SPLAT ↓↓	Red ↓↓	439-228.8 SLIGHTLY PLANAR LAMINAR Slightly Planar laminar continues as above. A Foliation gradually becomes more apparent at about 139' Sulfide begin to follow Foliation but they also cross cut the Flow Foliation. Foliation steepens with depth down the hole 158.5-166.5 Hanging wall breccia of the South Ridge Fault. Highly shear and argillized Series of breccia with shear plane silicification 186-188.5 Hang wall breccia of SRF. 204- Main rubble BXO ZONE of the hanging wall of the S.R.F. Begins core is all rubble and or breccia Silicified shear plans are surrounded by extremely argillization	120 130 140 150 160 170 180 190		130.9 - 132.2 CRACKLE BXA Healed By silica Expansion and rotation minimal 136.6-137.2 SILICA HEALED Breccia with marcasite, Barite and clay in the fracture 156.5-157 SILICA Healed Mosaic BXO moderate expansion but little rotation clast are subangular. 158.5-166.5 MILLED Breccia highly argillized matrix. Silica veins and masses. Footwall surface is silicified. 178-183 High angle (0°TCA) fracturing with chlorite clay with minor silicification 186-188.5 Silicified hetrolithic BXO. Subrounded to rounded clast Matrix supported BXO	127.3-130.9 marcasite/Py veins with QTZ. QTZ is drozy in vugs 132.9 Fracture with ½" Ducks butter 135-138.3 SILICA Healed fracture. 4" BXO healed by silica with marc. blades in the matrix. 143.9-147.5 White clay in 30° TCA and 3" rubble zone with Bladed marcasite 151-154.3 marcasite on qtz veining and in vug at 153.6 158.5-166.5 Silicification of clasts and very heavy argillization of matrix local disseminated "shiny" Pyrite accumulation 166.5-178 Moderately Argillized SPLAT with chlorite and clay on fractures 183-186 Highly argillized Hanging wall 186-188.5 Silicified Fault bxo 188.5-193 Highly argillized SPLAT. white clay mixed with argillized mass of clay. Most of this sample was lost to drilling

ANALYTICAL DATA

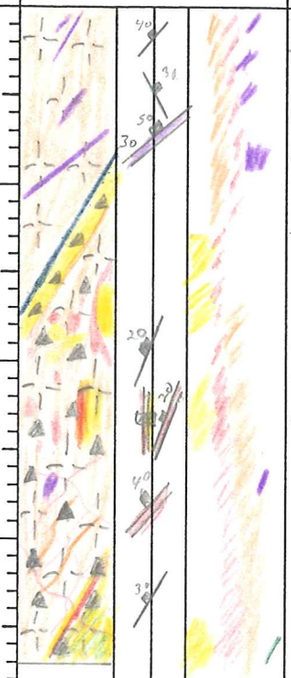
FROM	TO	W	Au	Ag	Au2	A
118.7	122.7					
122.7	125					
125	127.3					
127.3	130.9					
130.9	133.9					
133.9	135					
135	138.3					
138.3	143.9					
143.9	147.5					
147.5	151					
151	154.3					
154.3	156.5					
156.5	158.5					
158.5	162					
162	165					
165	166.5					
166.5	167.2					
167.2	172.7					
172.7	175					
175	178					
178	180					
180	183					
183.0	186					
186	188.5					
188.5	193					

HOLE NUMBER D-327-98 PAGE 4 OF 5

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
SPLAT ↓	R ↓	SLIGHTLY PLANAR LAMINAR Continued from page 3 203-210.5 Breccia fragments of "wormy" splat present. Pimo 202 * 205-210.5 UNEXPLAINED CORE LOSS of 4.5' in soft Argillized clay supported Breccia, A sample was taken from the interval as footage 205-206. Pimo 225.5	190 200 210 220	NO SAMPLE	193.5-203.5 Highly fracture interval with multible fracture orientation. 203.5-228.8 Breccia of S.R.F. Hanging wall becomes continueous Zone consist of rubble in clay matrix. Breccias range is intensist from mosaic to rubble clast can be locally milled	193.5-196.3 Highly QTZ veined. Veins are up to .5" thick. White clay is on fractures without the QTZ VEINING. Pyrite veins are also present. 214-297 Dark BaSO4 which is from association with Sb. 213.4-216 BaSO4 crystals with fine stibnite crystals inside of them scattered through the breccia 216-227 QTZ VEINED Breccia with muscovite blades and barite with stibnite.
S.R.F. ↓		228.8-245.7 SOUTH RIDGE FAULT Silica flooded breccia that spans the contact with SPLAT AND DOZER VERY HEAVY BaSO4 and STIBNITE ALONG THE FAULT * 235.8-297 DOZER CONTACT IN FAULT BRECCIA. Dozer clast in matrix supported Breccia begin at 237.5	230 240		228.8-245.7 S.R.F. QTZ FLOODED MILLED BXA FOOTWALL CONTACT is sulfide flooded at 20° TCA 245.7-297 Dozer has "ghost" fracture/BXA texture that is healed through out this section. There are true fractures and breccias but a back ground texture is present	227-231 Very Heavy stibnite crystal growths. Pyrargyrite even fine crystal dusting in clay and on barite. 231.5-233.4 6" Barite Breccia with sulfide matrix, Sb and possible pyrargyrite. also in this interval. 233.4-235.8 EXTREME SILICIFICATION. Highly EXPANDED MATRIX SUPPORTED BXA 235.8-240 SILICIFIED DOZER white clay in shutter gashes 242-244 ARGILLIZED DOZER with stibnite and qtz in vugs 245.7-254 stibnite darkens veins of pyrite and muscovite
T.d		245.7-297 DOZER Fine grain gray flow. Near the S.R.F. Fault Dozer is silicified and then shuttered with white clay in fracture gashes, Very fine Pyrargyrite crystal form in the fault but the size increase further in the footwall	250 260		254-257.8 DISSEMINATED PYRITE ACCUMULATIONS forming 3" dia masses 257.8-262.2 BaSO4 on fractures with stibnite and Pyrargyrite.	

ANALYTICAL DATA						
FROM	TO	W	Au	Ag	Au2	A
188.5	193					
193	196.3					
196.3	200					
200	203.5					
203.5	205					
205	206					
NO SAMPLE						
206	210.5					
210.5	213.4					
213.4	216					
216	220					
220	224.6					
224.6	227					
227	228.8					
228.8	231					
231	233.4					
233.4	235.8					
235.8	240					
240	242					
242	244					
244	245.7					
245.7	249					
249	251.5					
251.5	254					
254	257.8					
257.8	262.2					

HOLE NUMBER D-327-98 PAGE 5 OF 5

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
Td ↓	Red	245.7-297 DOZER Fine grained flow continues to T.D.. 245.7-254 Stibnite is present in quantities to form high % of vein material with qtz and pyrite. Locally the pale gray white color of Dozer is mottled with pyrite accumulations	260 270 280 290		270.6 to 273.2 Flow begins to show a foliation of 30° TCA Possible drag into fault at 273.2 273.2-297 FAULT BRECCIA. Subangular to subrounded clast. Intensity of Breccia ranges from mosaic to milled Bxu. General clast support with some expansion to matrix support. Contact orientation was 30° TCA	257.8-262.2 Barite in open vug with Sb and Pyrargyrite. 264-268 white clay with Pyrargyrite crystals and Busoy on fractures 268-270.6 2" Barite vein with Pyrargyrite crystals and stibnite in the interval 273.2-276 Silicified hanging wall of fault. Silica reached 275' 276-280.9 Argillized Dozer with stibnite and barite in vugs Masses of pyrite on core surface Spotty silicification 280.9-285 Silicifide interval with a partial cut of high angle Pyrite Vein. Sb also present in open spaces 285-294.7 Highly argillized Dozer stockwork of sulfide veins of Pyrite and marcasite. 294.7-297 silicified Dozer with a trace of chloritic alteration Pyrite is heavy in silica at 295.8
		E.O.H.				

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2	A
257.8	262.2					
262.2	264					
264	268					
268	270.6					
270.6	273.2					
273.2	276					
276	278					
278	280.9					
280.9	285					
285	287.4					
287.4	290					
290	294.7					
294.7	297					

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-327-98 DATE: 11-9-98 LOGGED BY: D.G. MacKerron 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	36	100	5										
5	10	100	100	92										
10	20	100	100	70										
20	30	94	100	63										
30	40	60	100	58										
40	50	77	100	63										
50	60	54	100	43										
60	70	100	100	93										
70	80	89	100	94										
80	88	26	Misloth 62	41										
88	95	53	100	67										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-327-98 DATE: 11-10-98 LOGGED BY: D.G. Mackerron PAGE 2 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)
9S	10S	100	100	65										
10S	11S	100	100	83										
11S	12S	85	100	32										
12S	13S	91	100	53										
13S	14S	80	100	65										
14S	15S	100	100	82										
15S	16S	20	100	16										
16S	17S	28	100	14										
17S	18S	0	100	4										
18S	18.6	0	83	0										
18.6	19.3	10	57	24										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-327-98 DATE: 11-10-98 LOGGED BY: D.G. Mucherron 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)
193	200	0	92	0										
200	205	28	80	0										
205	210.5	0	No Cut or recovery 4.5' loss 18	0										
210.5	216	0	100	0										
216	220	0	100	0										
220	227	0	100	0										
227	231	0	100	37										
231	235	0	100	10										
235	240	0	100	30										
240	244	42	100	0										
244	249	12	100	0										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-327-98 DATE: 11-11-98 LOGGED BY: D.G. Mucherrow 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)
249	254	100	100	86										
254	259	82	100	76										
259	264	100	100	70										
264	268	64	100	54										
268	270	100	100	16										
270	275	100	100	60										
275	280	100	100	94										
280	285	100	100	92										
285	290	100	100	100										
290	295	100	100	50										
295	297	100	100	85										

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP051638

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-327-98 RECEIVED : 19 NOV 1998

No. SAMPLES : 94 REPORTED : 14 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.

Page : 1

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP051638

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-327-98

REPORTED : 14 DEC 1998

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
D-327-98 0.0-2.5	0.003			0.05
D-327-98 2.5-5.8	0.005			0.06
D-327-98 5.8-10.0	<0.001			0.05
D-327-98 10.0-13.8	0.003			0.05
D-327-98 13.8-16.1	0.009			0.22
D-327-98 16.1-20.0	0.002			0.08
D-327-98 20-22	0.005			0.08
D-327-98 22.0-25.5	0.003			0.05
D-327-98 25.5-27.5	0.005			0.10
D-327-98 27.5-30.0	0.003			0.04
D-327-98 30-34	0.011			0.08
D-327-98 34.0-36.5	0.015			0.06
D-327-98 36.5-40.0	0.005			0.07
D-327-98 40.0-43.9	0.099		0.109	0.21
D-327-98 43.9-47.0	0.073		0.057	0.27
D-327-98 47.0-51.9	0.045			0.07
D-327-98 51.9-54.0	0.078		0.093	0.54
D-327-98 54.0-58.5	0.104		0.091	0.11
D-327-98 58.5-60.0	0.012			0.09
D-327-98 60.0-63.1	0.169		0.175	0.28
D-327-98 63.1-67.9	0.016			0.08
D-327-98 67.9-72.4	0.015	0.018		0.05
D-327-98 72.4-75.8	0.027			0.14
D-327-98 75.8-80.0	0.015			0.16
D-327-98 80.0-83.8	0.101		0.124	0.20

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP051638

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-327-98

REPORTED : 14 DEC 1998

SAMPLES		Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)	
D-327-98 83.8-88.0		0.036			0.41	
D-327-98 88.0-91.9		0.010	0.008		0.23	95-105 = 10'
D-327-98 91.9-95.0		0.116		0.160	0.13	@
D-327-98 95-100		0.354		0.405	0.28	0.316 Au
D-327-98 100-105		0.278		0.292	1.12	0.70 Ag
D-327-98 105.0-109.4		0.063		0.076	0.29	
D-327-98 109.4-113.7		0.018			0.09	118.7-162' =
D-327-98 113.7-118.7		0.083		0.075	0.26	43.3' @
D-327-98 118.7-122.7	4	0.222		0.271	0.35	
D-327-98 122.7-125.0	2.3	0.025			0.08	0.259 Au
D-327-98 125.0-127.3	2.3	0.141		0.137	0.18	0.38 Ag
D-327-98 127.3-130.9	3.6	0.160		0.198	0.17	
D-327-98 130.9-133.9	3.0	0.218		0.255	0.38	
D-327-98 133.9-135.0	1.1	0.072		0.099	0.18	
D-327-98 135.0-138.3	3.3	0.246		0.252	0.32	
D-327-98 138.3-143.9	5.6	0.188		0.111	0.18	
D-327-98 143.9-147.5	3.6	0.834		0.814	0.39	
D-327-98 147.5-151.0	3.5	0.301		0.361	0.65	
D-327-98 151.0-154.3	3.3	0.253		0.343	0.51	
D-327-98 154.3-156.5	2.2	0.260		0.203	0.13	
D-327-98 156.5-158.5	2.0	0.318		0.305	0.47	
D-327-98 158.5-162.0	3.5	0.189		0.222	1.04	
D-327-98 162-165		0.115		0.172	0.57	
D-327-98 165.0-166.5		0.046			0.21	
D-327-98 166.5-169.2		0.037			0.17	

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP051638

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-327-98

REPORTED : 14 DEC 1998

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
D-327-98 169.2-172.7	0.061		0.104	0.29
D-327-98 172.7-175.0	0.016			0.15
D-327-98 175-178	0.224		0.204	0.66
D-327-98 178-180	0.056		0.065	0.35
D-327-98 180-183	0.125		0.146	0.32
D-327-98 183-186	0.101		0.097	0.49
D-327-98 186.0-188.5	0.160		0.162	0.24
D-327-98 188.5-193.0	0.113		0.118	0.54
D-327-98 193.0-196.3	0.176		0.131	0.29
D-327-98 196.3-200.0	0.017			0.20
D-327-98 200.0-203.5	0.027			0.16
D-327-98 203.5-205.0	0.113		0.174	0.98
D-327-98 205-206	0.114		0.111	1.16
D-327-98 206.0-210.5		SAMPLE NOT RECEIVED		
D-327-98 210.5-213.4	0.133		0.158	0.44
D-327-98 213.4-216.0	0.029			0.35
D-327-98 216-220	0.184		0.145	0.45
D-327-98 220.0-224.6	0.116		0.105	0.76
D-327-98 224.6-227.0	0.225		0.267	1.65
D-327-98 227.0-228.8	0.153		0.104	1.97
D-327-98 228.8-231.0	0.043			0.79
D-327-98 231.0-233.4	0.125		0.122	1.62
D-327-98 233.4-235.8	0.026			0.22
D-327-98 235.8-240.0	0.004			0.71
D-327-98 240-242	0.016			0.33

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP051638

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-327-98

REPORTED : 14 DEC 1998

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
D-327-98 242-244	0.002			0.16
D-327-98 244.0-245.7	0.004			0.09
D-327-98 245.7-249.0	0.002			0.38
D-327-98 249.0-251.5	0.005			0.61
D-327-98 251.5-254.0	0.006			1.15
D-327-98 254.0-257.8	0.002			0.81
D-327-98 257.8-262.2	0.003			0.37
D-327-98 262.2-264.0	0.002			0.11
D-327-98 264-268	0.003			0.33
D-327-98 268.0-270.6	0.001			0.99
D-327-98 270.6-273.2	<0.001			0.85
D-327-98 273.2-276.0	0.003			2.01
D-327-98 276-278	0.004			0.70
D-327-98 278.0-280.9	0.002			0.05
D-327-98 280.9-285.0	0.002			0.06
D-327-98 285.0-287.4	0.003			0.08
D-327-98 287.4-290.0	0.001			0.03
D-327-98 290.0-294.7	0.005			0.08
D-327-98 294.7-297.0	0.004			0.07
46617	0.524			3.18

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 0051638-IN
INVOICE DATE: 12/15/98

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-327-98	DEVELOPMENT	NET 30 - DUE IN U.S. DOLLARS

QUANTITY	DESCRIPTION	PRICE	AMOUNT
94	SAMPLES RECEIVED	.00	.00
94	JAW CRUSHING CHARGE	1.30	122.20
94	SPLITTING CHARGE	1.20	112.80
94	FINE MILLING CHARGE	2.00	188.00
94	Au (1 A.T. FIRE ASSAY)	8.00	752.00
41	Au ANALYSES/GRAVIMETRIC	8.75	358.75
94	HYDROCHLORIC/NITRIC DIGESTION	2.00	188.00
94	Ag ANALYSES	1.00	94.00
4	Ag (ore grade) ANALYSES	5.00	20.00

86-5110-477

NET INVOICE:	1,835.75
LESS DISCOUNT:	367.15
FREIGHT	.00
INVOICE TOTAL:	1,468.60

xAMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP051638

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-327-98 RECEIVED : 19 NOV 1998

No. SAMPLES : 94 REPORTED : 14 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 SP051638

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-327-98

REPORTED : 14 DEC 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-327-98 0.0-2.5	0.003			0.05
D-327-98 2.5-5.8	0.005			0.06
D-327-98 5.8-10.0	<0.001			0.05
D-327-98 10.0-13.8	0.003			0.05
D-327-98 13.8-16.1	0.009			0.22
D-327-98 16.1-20.0	0.002			0.08
D-327-98 20-22	0.005			0.08
D-327-98 22.0-25.5	0.003			0.05
D-327-98 25.5-27.5	0.005			0.10
D-327-98 27.5-30.0	0.003			0.04
D-327-98 30-34	0.011			0.08
D-327-98 34.0-36.5	0.015			0.06
D-327-98 36.5-40.0	0.005			0.07
D-327-98 40.0-43.9	0.099		0.109	0.21
D-327-98 43.9-47.0	0.073		0.057	0.27
D-327-98 47.0-51.9	0.045			0.07
D-327-98 51.9-54.0	0.078		0.093	0.54
D-327-98 54.0-58.5	0.104		0.091	0.11
D-327-98 58.5-60.0	0.012			0.09
D-327-98 60.0-63.1	0.169		0.175	0.28
D-327-98 63.1-67.9	0.016			0.08
D-327-98 67.9-72.4	0.015	0.018		0.05
D-327-98 72.4-75.8	0.027			0.14
D-327-98 75.8-80.0	0.015			0.16
D-327-98 80.0-83.8	0.101		0.124	0.20

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP051638

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-327-98

REPORTED : 14 DEC 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-327-98 83.8-88.0	0.036			0.41
D-327-98 88.0-91.9	0.010	0.008		0.23
D-327-98 91.9-95.0	0.116		0.160	0.13
D-327-98 95-100	0.354		0.405	0.28
D-327-98 100-105	0.278		0.292	1.12
D-327-98 105.0-109.4	0.063		0.076	0.29
D-327-98 109.4-113.7	0.018			0.09
D-327-98 113.7-118.7	0.083		0.075	0.26
D-327-98 118.7-122.7	0.222		0.271	0.35
D-327-98 122.7-125.0	0.025			0.08
D-327-98 125.0-127.3	0.141		0.137	0.18
D-327-98 127.3-130.9	0.160		0.198	0.17
D-327-98 130.9-133.9	0.218		0.255	0.38
D-327-98 133.9-135.0	0.072		0.099	0.18
D-327-98 135.0-138.3	0.246		0.252	0.32
D-327-98 138.3-143.9	0.188		0.111	0.18
D-327-98 143.9-147.5	0.834		0.814	0.39
D-327-98 147.5-151.0	0.301		0.361	0.65
D-327-98 151.0-154.3	0.253		0.343	0.51
D-327-98 154.3-156.5	0.260		0.203	0.13
D-327-98 156.5-158.5	0.318		0.305	0.47
D-327-98 158.5-162.0	0.189		0.222	1.04
D-327-98 162-165	0.115		0.172	0.57
D-327-98 165.0-166.5	0.046			0.21
D-327-98 166.5-169.2	0.037			0.17

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP051638

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-327-98

REPORTED : 14 DEC 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-327-98 169.2-172.7	0.061		0.104	0.29
D-327-98 172.7-175.0	0.016			0.15
D-327-98 175-178	0.224		0.204	0.66
D-327-98 178-180	0.056		0.065	0.35
D-327-98 180-183	0.125		0.146	0.32
D-327-98 183-186	0.101		0.097	0.49
D-327-98 186.0-188.5	0.160		0.162	0.24
D-327-98 188.5-193.0	0.113		0.118	0.54
D-327-98 193.0-196.3	0.176		0.131	0.29
D-327-98 196.3-200.0	0.017			0.20
D-327-98 200.0-203.5	0.027			0.16
D-327-98 203.5-205.0	0.113		0.174	0.98
D-327-98 205-206	0.114		0.111	1.16
D-327-98 206.0-210.5		SAMPLE NOT RECEIVED		
D-327-98 210.5-213.4	0.133		0.158	0.44
D-327-98 213.4-216.0	0.029			0.35
D-327-98 216-220	0.184		0.145	0.45
D-327-98 220.0-224.6	0.116		0.105	0.76
D-327-98 224.6-227.0	0.225		0.267	1.65
D-327-98 227.0-228.8	0.153		0.104	1.97
D-327-98 228.8-231.0	0.043			0.79
D-327-98 231.0-233.4	0.125		0.122	1.62
D-327-98 233.4-235.8	0.026			0.22
D-327-98 235.8-240.0	0.004			0.71
D-327-98 240-242	0.016			0.33

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP051638

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-327-98

REPORTED : 14 DEC 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-327-98 242-244	0.002			0.16
D-327-98 244.0-245.7	0.004			0.09
D-327-98 245.7-249.0	0.002			0.38
D-327-98 249.0-251.5	0.005			0.61
D-327-98 251.5-254.0	0.006			1.15
D-327-98 254.0-257.8	0.002			0.81
D-327-98 257.8-262.2	0.003			0.37
D-327-98 262.2-264.0	0.002			0.11
D-327-98 264-268	0.003			0.33
D-327-98 268.0-270.6	0.001			0.99
D-327-98 270.6-273.2	<0.001			0.85
D-327-98 273.2-276.0	0.003			2.01
D-327-98 276-278	0.004			0.70
D-327-98 278.0-280.9	0.002			0.05
D-327-98 280.9-285.0	0.002			0.06
D-327-98 285.0-287.4	0.003			0.08
D-327-98 287.4-290.0	0.001			0.03
D-327-98 290.0-294.7	0.005			0.08
D-327-98 294.7-297.0	0.004			0.07
46617	0.524			3.18

xAMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP051638

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-327-98

No. SAMPLES : 94

MAIN SAMPLE TYPE : DRILL CORE

RECEIVED : 19 NOV 1998

REPORTED : 14 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 SP051638

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-327-98

REPORTED : 14 DEC 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-327-98 0.0-2.5	0.003			0.05
D-327-98 2.5-5.8	0.005			0.06
D-327-98 5.8-10.0	<0.001			0.05
D-327-98 10.0-13.8	0.003			0.05
D-327-98 13.8-16.1	0.009			0.22
D-327-98 16.1-20.0	0.002			0.08
D-327-98 20-22	0.005			0.08
D-327-98 22.0-25.5	0.003			0.05
D-327-98 25.5-27.5	0.005			0.10
D-327-98 27.5-30.0	0.003			0.04
D-327-98 30-34	0.011			0.08
D-327-98 34.0-36.5	0.015			0.06
D-327-98 36.5-40.0	0.005			0.07
D-327-98 40.0-43.9	0.099		0.109	0.21
D-327-98 43.9-47.0	0.073		0.057	0.27
D-327-98 47.0-51.9	0.045			0.07
D-327-98 51.9-54.0	0.078		0.093	0.54
D-327-98 54.0-58.5	0.104		0.091	0.11
D-327-98 58.5-60.0	0.012			0.09
D-327-98 60.0-63.1	0.169		0.175	0.28
D-327-98 63.1-67.9	0.016			0.08
D-327-98 67.9-72.4	0.015	0.018		0.05
D-327-98 72.4-75.8	0.027			0.14
D-327-98 75.8-80.0	0.015			0.16
D-327-98 80.0-83.8	0.101		0.124	0.20

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP051638

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-327-98

REPORTED : 14 DEC 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-327-98 83.8-88.0	0.036			0.41
D-327-98 88.0-91.9	0.010	0.008		0.23
D-327-98 91.9-95.0	0.116		0.160	0.13
D-327-98 95-100	0.354		0.405	0.28
D-327-98 100-105	0.278		0.292	1.12
D-327-98 105.0-109.4	0.063		0.076	0.29
D-327-98 109.4-113.7	0.018			0.09
D-327-98 113.7-118.7	0.083		0.075	0.26
D-327-98 118.7-122.7	0.222		0.271	0.35
D-327-98 122.7-125.0	0.025			0.08
D-327-98 125.0-127.3	0.141		0.137	0.18
D-327-98 127.3-130.9	0.160		0.198	0.17
D-327-98 130.9-133.9	0.218		0.255	0.38
D-327-98 133.9-135.0	0.072		0.099	0.18
D-327-98 135.0-138.3	0.246		0.252	0.32
D-327-98 138.3-143.9	0.188		0.111	0.18
D-327-98 143.9-147.5	0.834		0.814	0.39
D-327-98 147.5-151.0	0.301		0.361	0.65
D-327-98 151.0-154.3	0.253		0.343	0.51
D-327-98 154.3-156.5	0.260		0.203	0.13
D-327-98 156.5-158.5	0.318		0.305	0.47
D-327-98 158.5-162.0	0.189		0.222	1.04
D-327-98 162-165	0.115		0.172	0.57
D-327-98 165.0-166.5	0.046			0.21
D-327-98 166.5-169.2	0.037			0.17

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP051638

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-327-98

REPORTED : 14 DEC 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-327-98 169.2-172.7	0.061		0.104	0.29
D-327-98 172.7-175.0	0.016			0.15
D-327-98 175-178	0.224		0.204	0.66
D-327-98 178-180	0.056		0.065	0.35
D-327-98 180-183	0.125		0.146	0.32
D-327-98 183-186	0.101		0.097	0.49
D-327-98 186.0-188.5	0.160		0.162	0.24
D-327-98 188.5-193.0	0.113		0.118	0.54
D-327-98 193.0-196.3	0.176		0.131	0.29
D-327-98 196.3-200.0	0.017			0.20
D-327-98 200.0-203.5	0.027			0.16
D-327-98 203.5-205.0	0.113		0.174	0.98
D-327-98 205-206	0.114		0.111	1.16
D-327-98 206.0-210.5		SAMPLE NOT RECEIVED		
D-327-98 210.5-213.4	0.133		0.158	0.44
D-327-98 213.4-216.0	0.029			0.35
D-327-98 216-220	0.184		0.145	0.45
D-327-98 220.0-224.6	0.116		0.105	0.76
D-327-98 224.6-227.0	0.225		0.267	1.65
D-327-98 227.0-228.8	0.153		0.104	1.97
D-327-98 228.8-231.0	0.043			0.79
D-327-98 231.0-233.4	0.125		0.122	1.62
D-327-98 233.4-235.8	0.026			0.22
D-327-98 235.8-240.0	0.004			0.71
D-327-98 240-242	0.016			0.33

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP051638

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-327-98

REPORTED : 14 DEC 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-327-98 242-244	0.002			0.16
D-327-98 244.0-245.7	0.004			0.09
D-327-98 245.7-249.0	0.002			0.38
D-327-98 249.0-251.5	0.005			0.61
D-327-98 251.5-254.0	0.006			1.15
D-327-98 254.0-257.8	0.002			0.81
D-327-98 257.8-262.2	0.003			0.37
D-327-98 262.2-264.0	0.002			0.11
D-327-98 264-268	0.003			0.33
D-327-98 268.0-270.6	0.001			0.99
D-327-98 270.6-273.2	<0.001			0.85
D-327-98 273.2-276.0	0.003			2.01
D-327-98 276-278	0.004			0.70
D-327-98 278.0-280.9	0.002			0.05
D-327-98 280.9-285.0	0.002			0.06
D-327-98 285.0-287.4	0.003			0.08
D-327-98 287.4-290.0	0.001			0.03
D-327-98 290.0-294.7	0.005			0.08
D-327-98 294.7-297.0	0.004			0.07
46617	0.524			3.18

SP

SUBMITTAL FORM

American Assay Laboratories

Geochemical • Environmental • Metallurgical

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Nevada 89801
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Fax
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Other Offices
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Santiago, Chile
Mendoza, Argentina

Company: Rosebud Mining L.L.C.

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: 11/17/98 Number of Samples: 94

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

D-327-98 SAMPLE IDENTIFICATION	TYPE	ELEMENTS REQUIRED
0-2.5 47-51.9 105-109.4 156.5-158.5		200-203.5 242-244 285-287.4
2.5-5.8 51.9-54 109.4-113.7 158.5-162		203.5-205 244-245.7 287.4-290
5.8-10 54-58.5 113.7-118.7 162-165		205-206 245.7-249 290-294.7
10-13.8 58.5-60 118.7-122.7 165-166.5		206-210.5 (NS) 249-251.5 294.7-297 TD
13.8-16.1 60-63.1 122.7-125 166.5-169.2		210.5-213.4 251.5-254
16.1-20 63.1-67.9 125-127.3 169.2-172.7		213.4-216 254-257.8
20-22 67.9-72.4 127.3-130.9 172.7-175		216-220 257.8-262.2
22-25.5 72.4-75.8 130.9-133.9 175-178		220-224.6 262.2-264
25.5-27.5 75.8-80 133.9-135 178-180		224.6-227 264-268
27.5-30 80-83.8 135-138.3 180-183		227-228.8 268-270.6
30-34 83.8-88 138.3-143.9 183-186		228.8-231 270.6-273.2
34-36.5 88-91.9 143.9-147.5 186-188.5		231-233.4 273.2-276
36.5-40 91.9-95 147.5-151 188.5-193		233.4-235.8 276-278
40-43.9 95-100 151-154.3 193-196.3		235.8-240 278-280.9
43.9-47 100-105 154.3-156.5 196.3-200		240-242 280.9-285

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-327-98	20	8	121.7
	150	7.5	122.2
	297	7	122.7

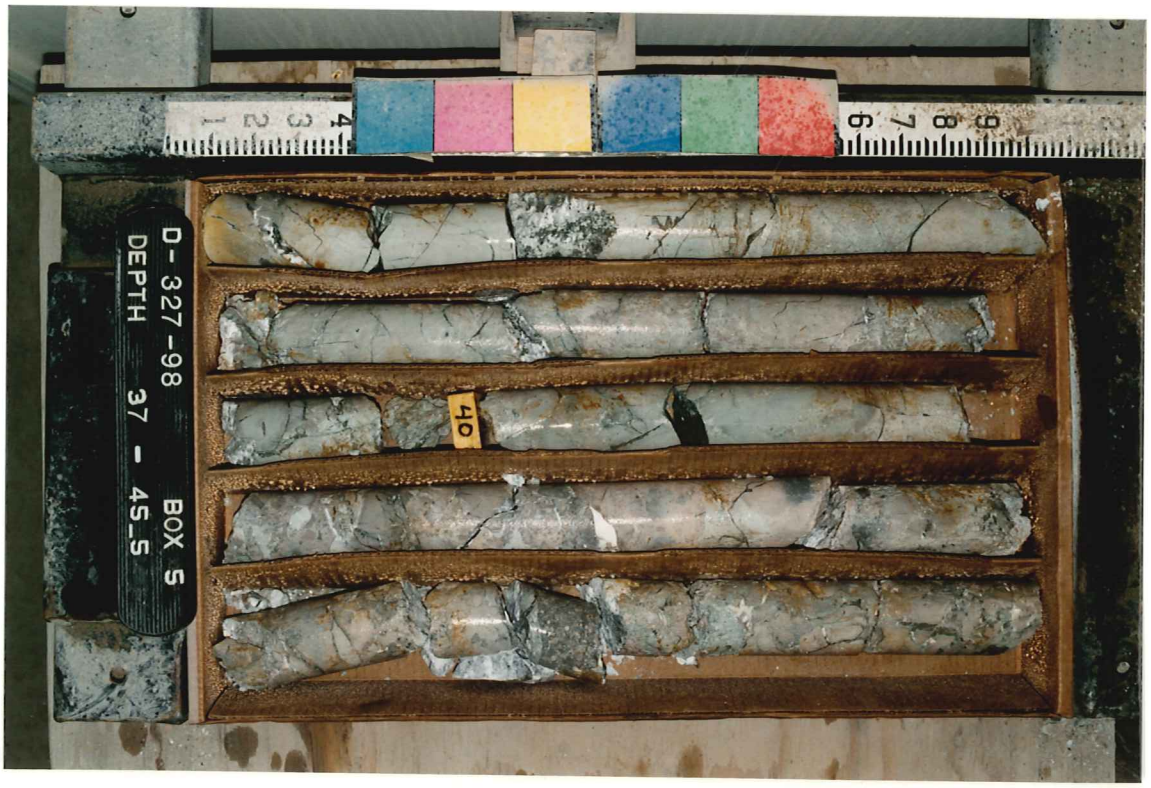
10
D- 327-98 BOX 2
DEPTH 9 - 18_5

5
D- 327-98 BOX 1
DEPTH 0 - 9

D- 327-98 BOX 3
DEPTH 18_5 - 28

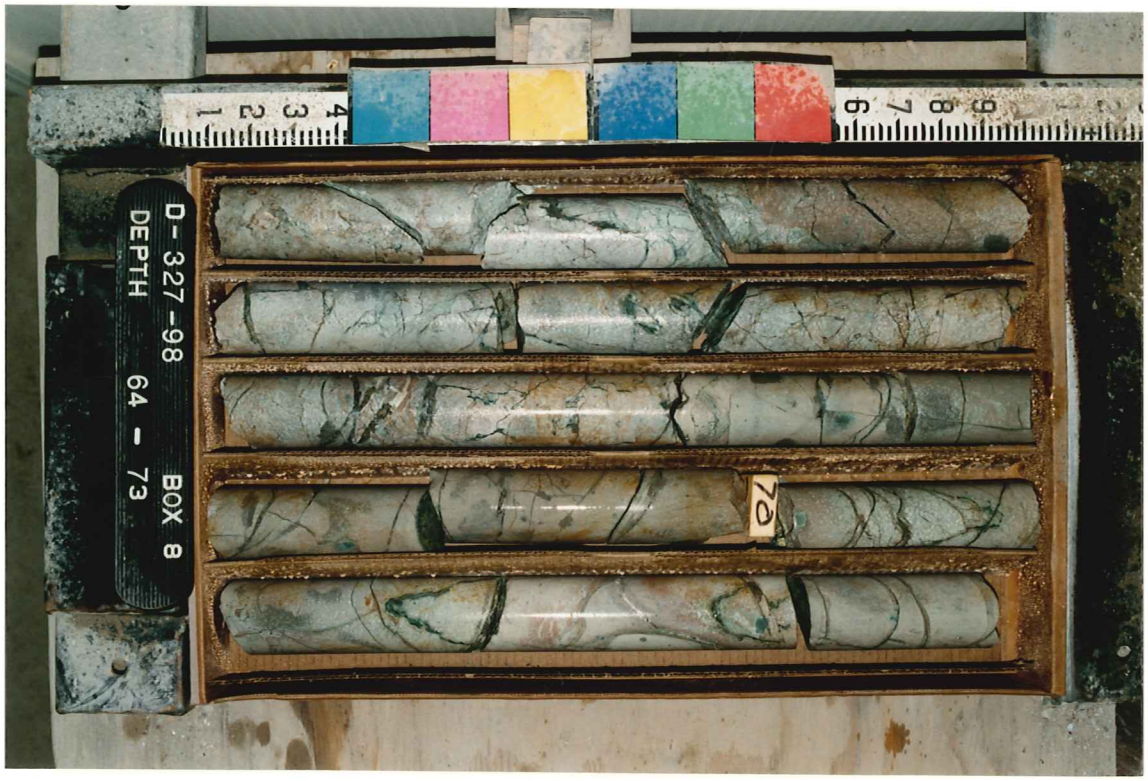
40
D- 327-98 BOX 5
DEPTH 37 - 45_5

30
D- 327-98 BOX 4
DEPTH 28 - 37


D- 327-98 BOX 5
DEPTH 37 - 45_5
40

60
D- 327-98 BOX 7
DEPTH 55 - 64

50
D- 327-98 BOX 6
DEPTH 45_5 - 55


D- 327-98 BOX 8
DEPTH 64 - 73
70

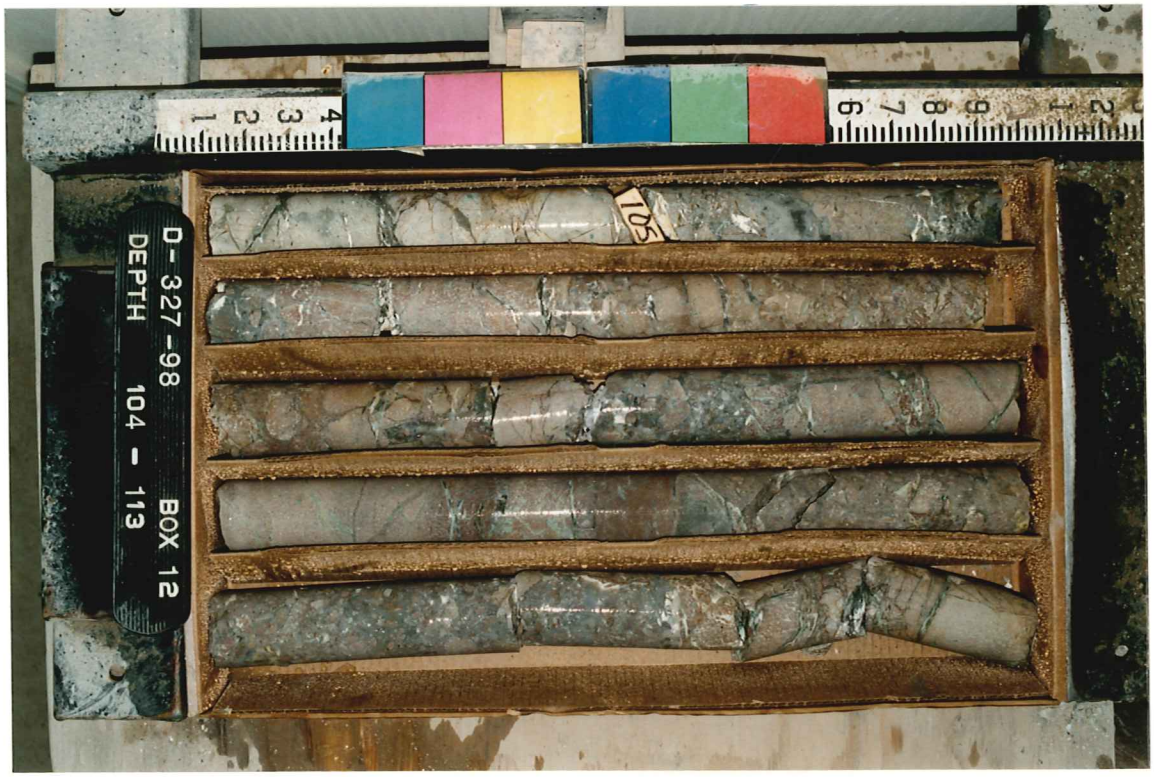
D- 327-98 BOX 9
DEPTH 73 - 82

D- 327-98 BOX 9
DEPTH 73 - 82

D- 327-98 BOX 9
DEPTH 73 - 82

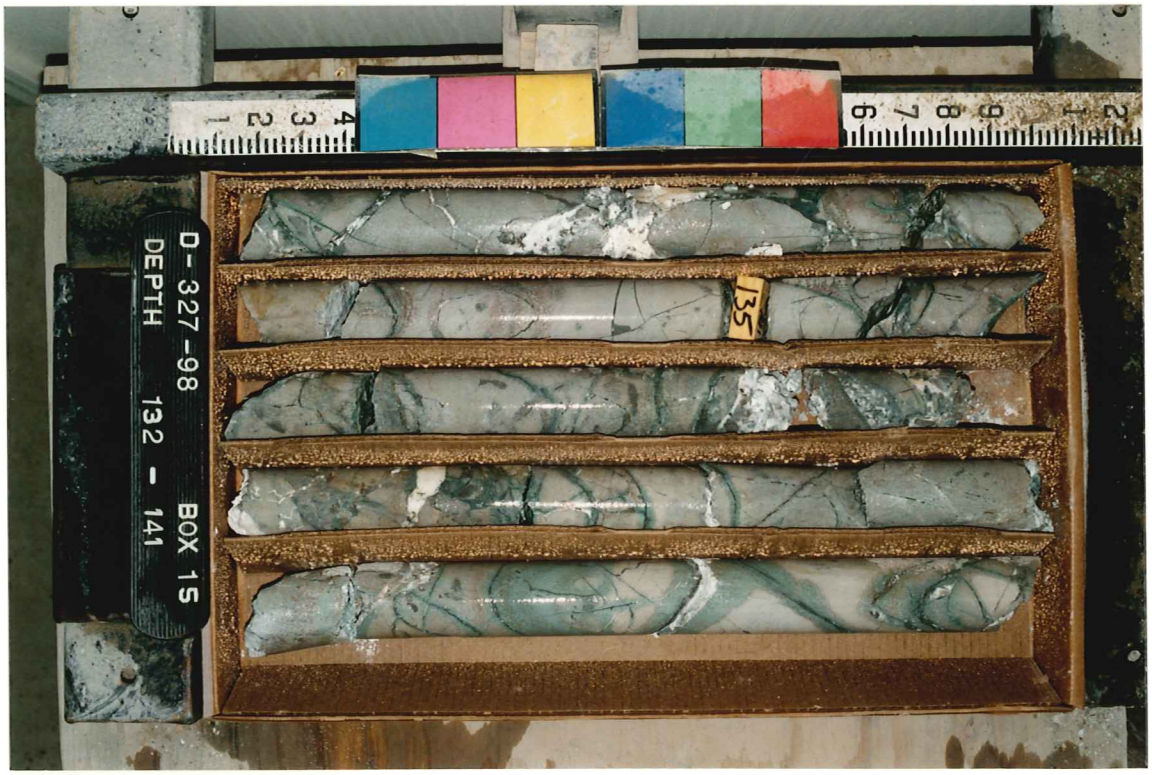
95
D-327-98 BOX 11
DEPTH 94 - 104

D-327-98 BOX 10
DEPTH 82 - 94


105
D-327-98 BOX 12
DEPTH 104 - 113

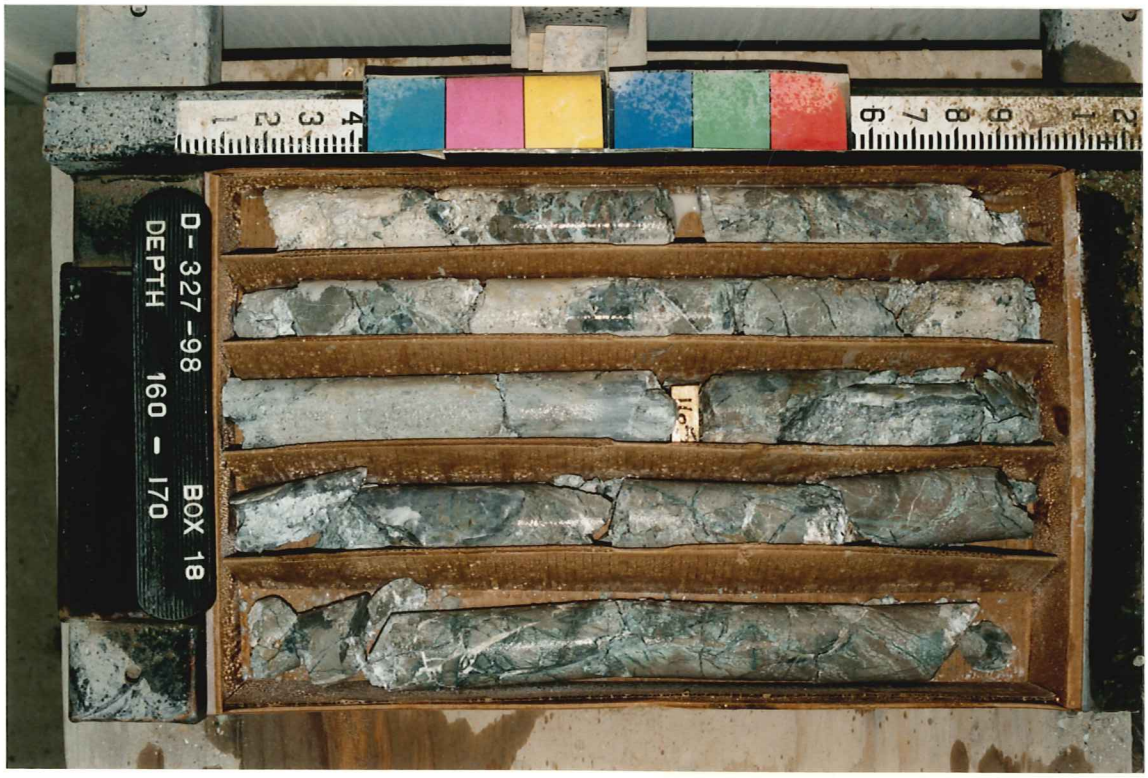
125
D- 327-98 BOX 14
DEPTH 123 - 132

115
D- 327-98 BOX 13
DEPTH 113 - 123


135
D- 327-98 BOX 15
DEPTH 132 - 141

155
D- 327-98 BOX 17
DEPTH 151 - 160

145
D- 327-98 BOX 16
DEPTH 141 - 151


D- 327-98 BOX 18
DEPTH 160 - 170

D- 327-98 BOX 20
DEPTH 178 - 188_5
180
186

D- 327-98 BOX 19
DEPTH 170 - 178
175
175

D- 327-98 BOX 21
DEPTH 188_5 - 203
193
200

220
220
216
D- 327-98 BOX 23
DEPTH 215_5 - 225

205
205
210.5
D- 327-98 BOX 22
DEPTH 203 - 215_5

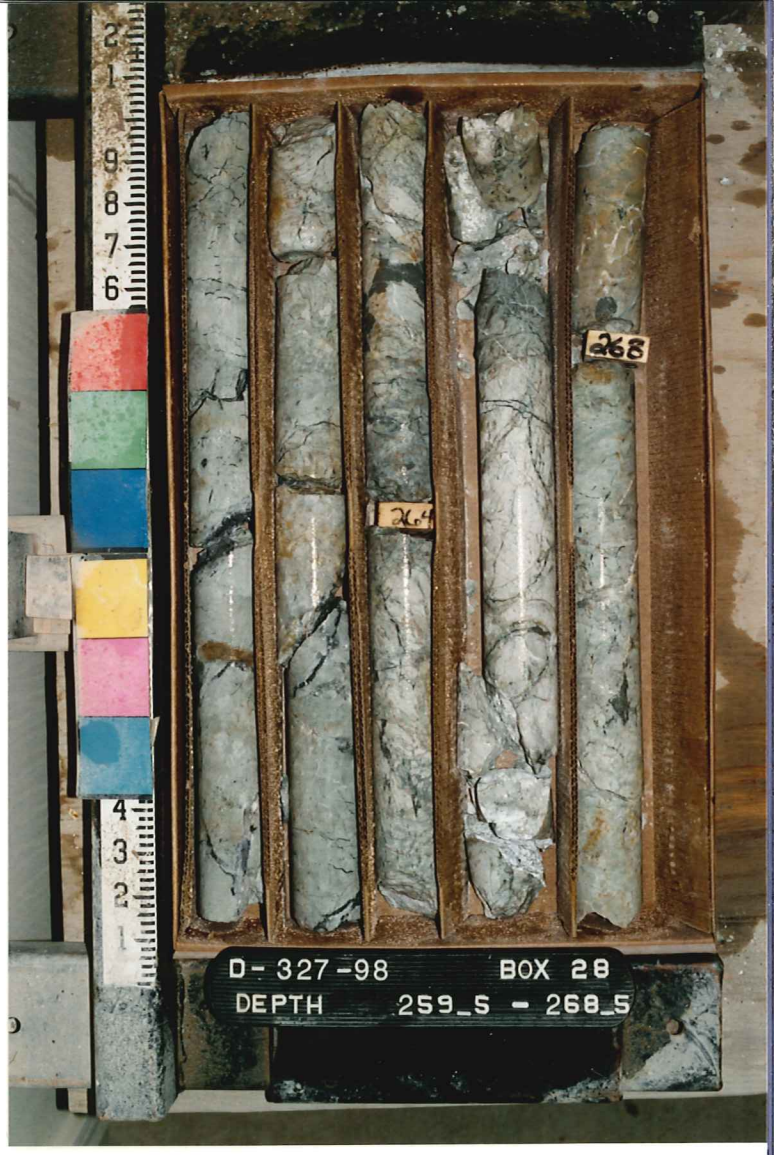
D- 327-98 BOX 24
DEPTH 225 - 234

D- 327-98 BOX 26
DEPTH 242 - 251

D- 327-98 BOX 25
DEPTH 234 - 242

D- 327-98 BOX 27
DEPTH 251 - 259_5

275
270
D-327-98 BOX 29
DEPTH 268_5 - 279

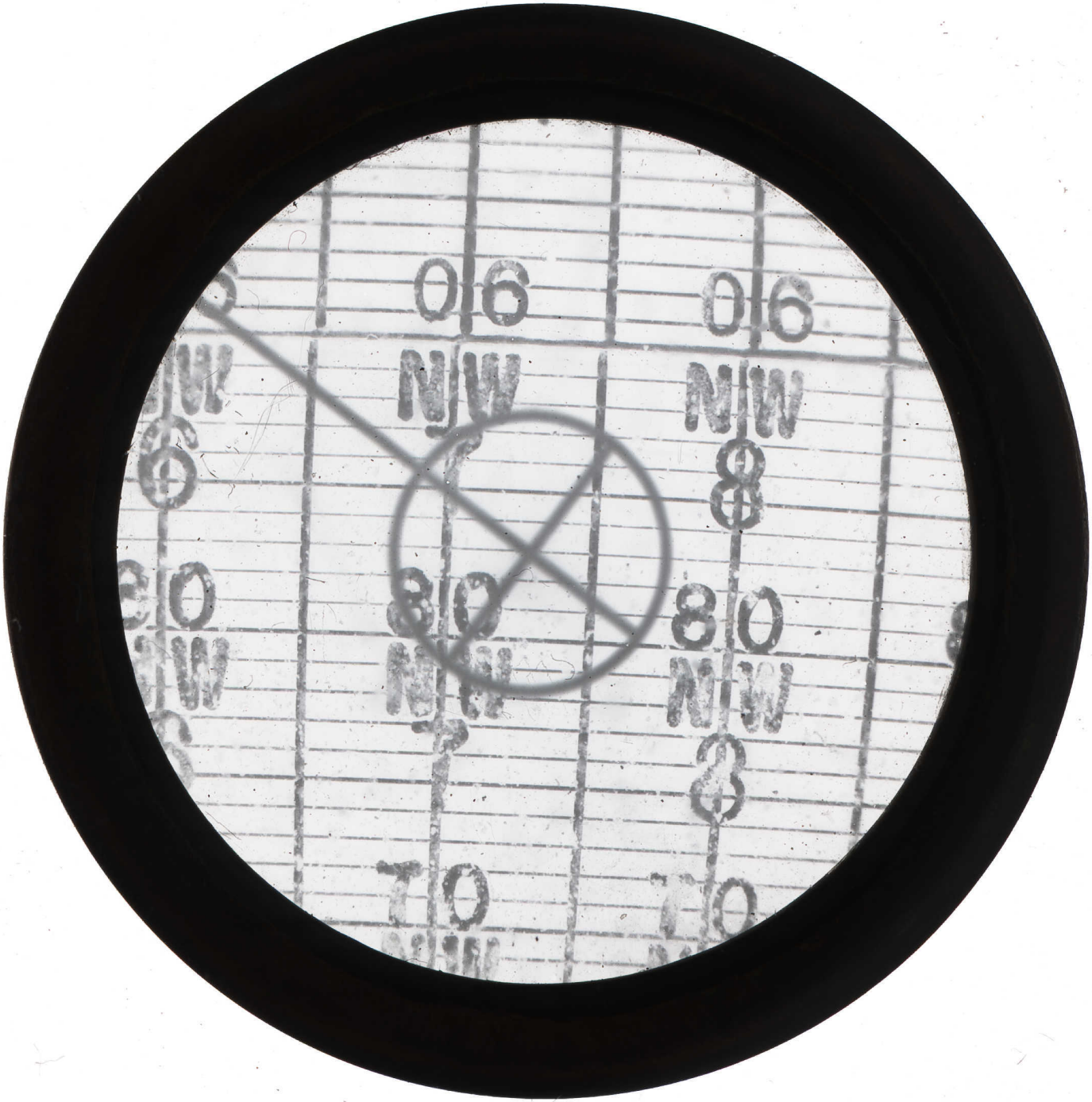

268
264
D-327-98 BOX 28
DEPTH 259_5 - 268_5

280
D-327-98 BOX 30
DEPTH 279 - 287_5

D-327-98
BOX 31
DEPTH 287_5 - 297 TD
290
295
297

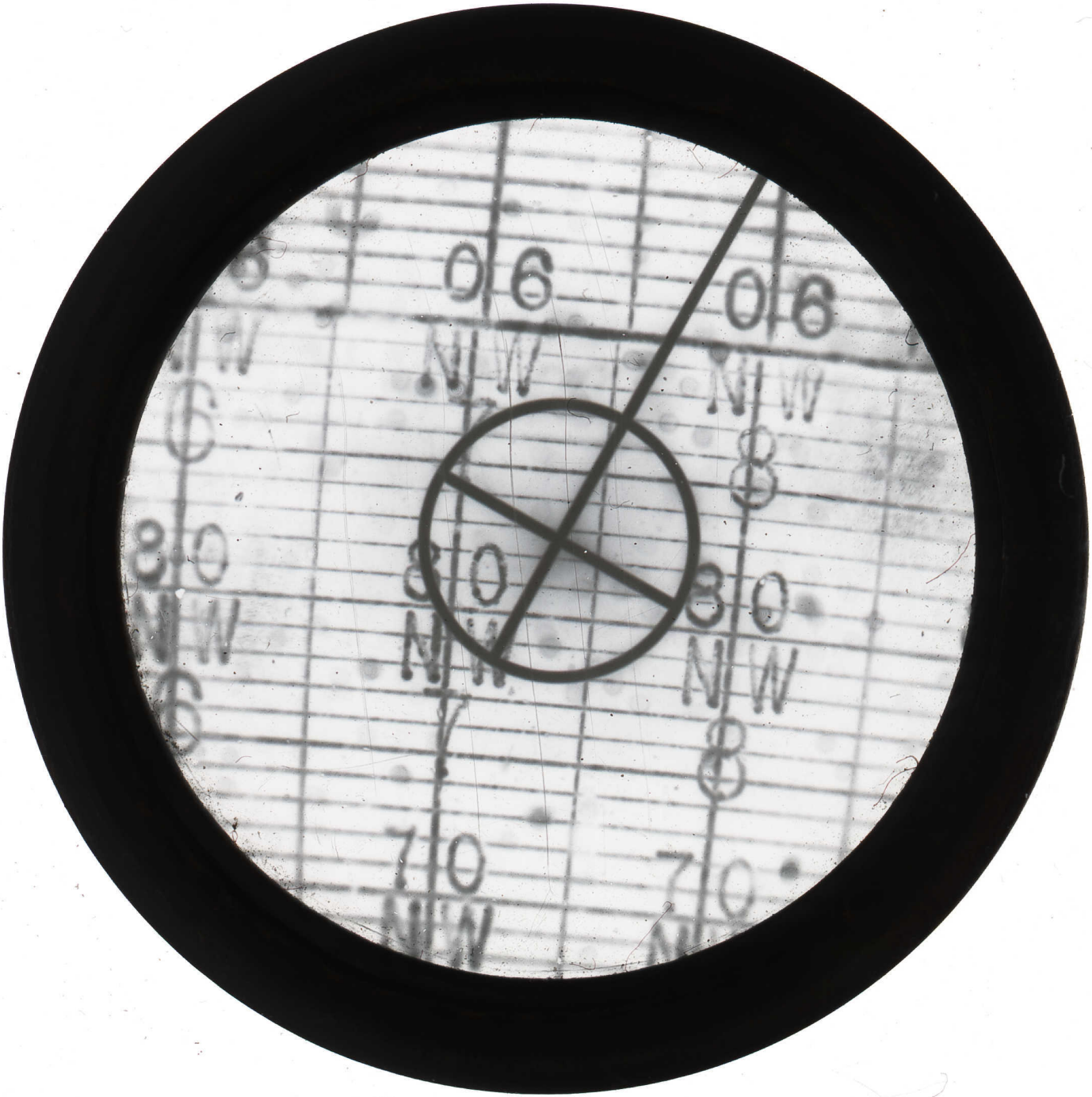
SINGLE SHOT
PHOTO DISC RECORD

COMPANY Hecla
WELL NAME D-327-98
LEASE
TAKEN BY Magoon
DEPTH 297
DATE 10-14-98
DRIFT ANGLE
DIRECTION
TYPE
JOB NO.
HI-1408



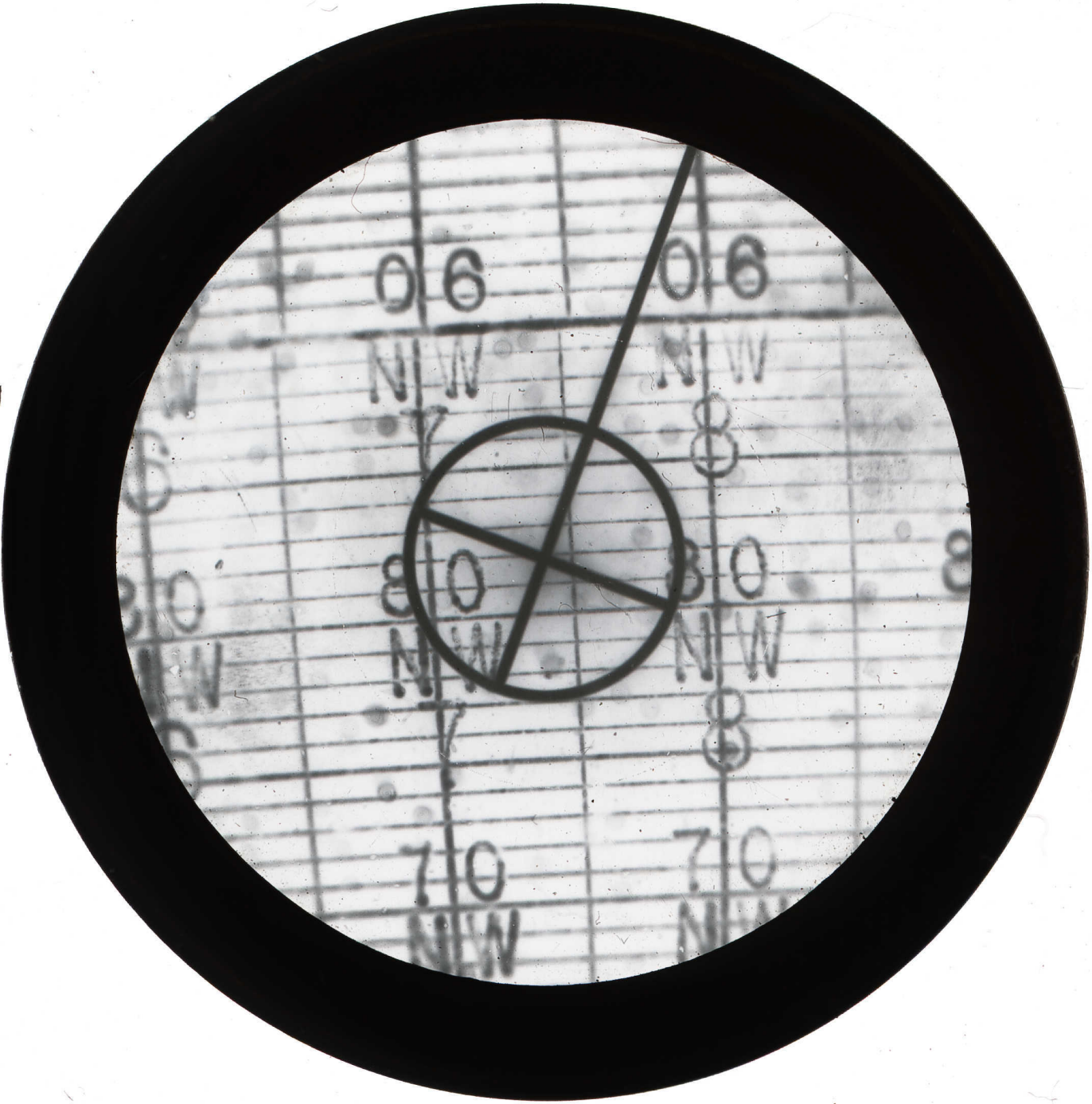
SINGLE SHOT
PHOTO DISC RECORD

COMPANY Hecla
WELL NAME D-327-98
LEASE
TAKEN BY Mayoon
DEPTH 150
DATE 10-14-98
DRIFT ANGLE
DIRECTION
TYPE
JOB NO.
HI-1408


06
NW
06
NW
80
NW
80
NW
70
NW

SINGLE SHOT
PHOTO DISC RECORD

COMPANY Heda
WELL NAME D-327-98
LEASE
TAKEN BY Magnon
DEPTH 20
DATE 10-14-98
DRIFT ANGLE
DIRECTION
TYPE
JOB NO.
HI-1408


06
06
NW
NW
80
80
NW
NW
70
70