60001174

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-273-98
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 320' receipt; handwritten notes; downhole camera images 41p. 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: MAL
Initials Date

SCANNED: NB
Initials Date

Revised: 1/22/08

D-273-98

60001174 4010

6000174

Hecla MINING COMPANY

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

ROSEBUD PROJECT
DIAMOND DRILL LOG

HOLE NUMBER	D-273-98	LOCATION	STOPE 50 SEC 1375
PAGE	1 OF 5	NORTHING	
DATE	8/26 – 29/98	EASTING	
LOGGED BY	ALLYN NILES	ELEVATION	
SCALE	1" = 10'	AZIMUTH	125
TOTAL DEPTH	320	INCLINATION	68

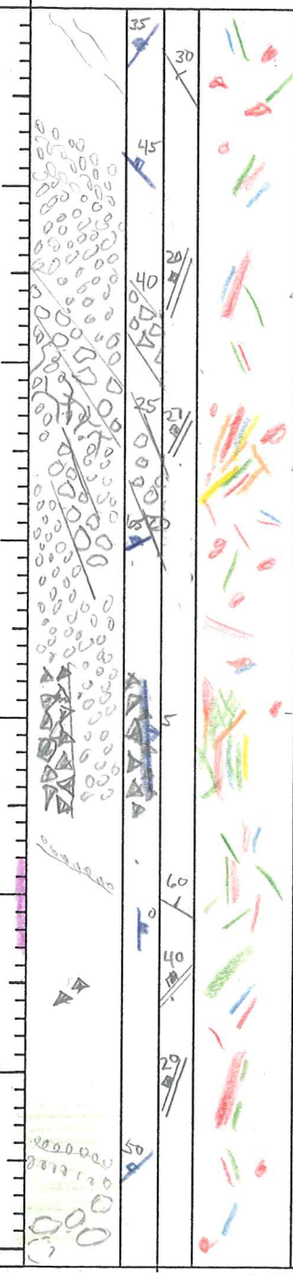
REMARKS

ITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
0.0 – 22.6 TOS		0.0 – 14.1 GREEN TO LT. GREEN LAPILLIS, MOD. SORTED, IN A GREEN APHANITIC CLAY.	10	63, 50, 65	0.0 – 37.0 NATURAL FRACTURES SCARCE. 5.3 2" Ø DK. GRAY QUARTZ VEIN W/ VERY SMALL WHITE CLASTS	0.0 – 34.0 WEAK CALCITE VEINING 5.3 MINOR DISSEM PY.
		14.1 – 22.6 LAPILLIS & MATRIX CHANGING TO PINK → NEAR WHITE.	20	46, 13, 55, 65	14.1 CONTACT W/ PINKISH LAPILLI TUFF IS SHARP, LOW ANGLE TO CORE.	
22.6 – 35.2 F.G. MASSIVE		22.6 – 35.2 VERY LT. PINK TO VERY LT. GREEN, APHANITIC, FAINT FLOW FEATURES	30	70, 75, 70, 30	22.6 CONTACT SHARP W/ AUTO BRECCIA CLASTS FROM F.G. MASSIVE 35.2 – 37.0 AUTO BRECCIA FLOW BASE?	
35.2 – 96.6 PLANAR LAMINAR		35.2 – 96.6 INTERBEDDED PLANAR FLOWS, F.G. MASSIVE FLOWS, VESICULAR F.G. TUFFY FLOWS. PINK TO LT. GREEN TO LT. GRAY. RARE	40	10, 40, 70, 30	35.2 – 42.0 MOD. → STRONG FRACTURING, VEINING. BXA 37.0 – 40.0, LOOSELY HEALED, FRAGS OF PINKISH TUFFY FLOW. 41.6 – 42.0 HEALED, SMALL BXA, ROUND CLASTS.	35.2 – 42.0 FRACTURES VEINS FILLED W/ BLADED MARC., WHITE CLAY, WEAK SILICA REP. OF SOME BXA CLASTS, 41.6 – 42.0 HARD VOLCANIC CLAY MATRIX IS PY RICH 44.0 – 130.0 MINOR CALCITE VEINING
			50	60		

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2	Ag2
0.0	5.0					
5.0	9.0					
9.0	14.0					
14.0	19.0					
19.0	22.6					
22.6	24.0					
24.0	29.0					
29.0	34.0					
34.0	36.5					
36.5	39.0					
39.0	42.0					
42.0	44.0					
44.0	49.0					

HOLE NUMBER D-273-98 PAGE 2 OF 5

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
22.6 - 96.6		35.2 - 96.6 SEE DESCRIPTION PAGE 1	60 70 80 90 100 110 120		66.8 - 70.5 ROUND, SOME ANGULAR, HOMOLITHIC AUTO BRECCIA FRAGS IN PINKISH TUFFY CLAY MATRIX. FLOW BASE? MAYBE TECTONIC RELATED 72.5-75.0 CRACKLE ZONE 75.0 - 80.6 BXA ZONE SAME AS DESCRIBED ABOVE 66.8 - 70.5. 87.0 - 94.6 BXA - VEIN ZONE NEAR PARALLEL TO CORE AXIS. VARIABLE SIZE CLASTS TO 4" DIA OR MORE. HOMOLITHIC. 105.3 1" Ø BXA w/ MARC. 110.6 1/2" Ø MARC, VEIN. 117.5 - 122.5 AUTOBXA? ROUND TO ANGULAR CLASTS	51.5 - 95.0 ROUNDED TO IRREGULAR SHAPED SULFIDIC SELVAGES ASSOC. w/ FRACTS, OR w/ NO OBSERVED STRUCTURAL ASSOC. 63.2 - 65.2 OPEN FRACTURE SET SUBPARALLEL TO CORE AXIS. 66.5 - 70.5 WEAK SULFIDE VEINING 72.5 - 75.0 INCREASED SULFIDE VEINS, DRUZY QUARTZ & SULFIDES FILLING LINING OPEN SPACES. 75.0 - 80.6 WEAK → MOD. SULFIDE/CALCITE/WHITE CLAY VEINS ASSOC. w/ BXA. 87.0 - 94.6 CEMENTED w/ PINK VOCANIC CLAY w/ VARIABLE PROPYLITIC ALT., CALCITE, WEAK MARC., MINOR QUARTZ. 114.0 - 164.0 ROUND TO IRREGULAR SHAPED SULFIDIC SELVAGES OFTEN ASSOC. w/ FRACTURES, FRACTURE SETS, SOME HAVE NO OBSERVED ASSOC.
PLANAR LAMINAR						
96.6 - 142.6		96.6 - 142.6 FINE GRAIN MASSIVE VERY LT. GREEN TO PINK; VERY FINE GRAIN TO APHANITIC, FAINT FLOW BANDS & FABRIC ALIGNMENT FEATURES.				
F.G. MASSIVE						

ANALYTICAL DATA					
FROM	TO	W	Au	Ag	Au2
48.0	54.0				
54.0	59.0				
59.0	63.2				
63.2	65.5				
65.5	69.0				
69.0	72.8				
72.8	74.8				
74.8	76.7				
76.7	79.0				
79.0	84.0				
84.0	86.0				
86.0	89.0				
89.0	91.4				
91.4	93.0				
93.0	94.6				
94.6	98.0				
98.0	103.0				
103.0	106.5				
106.5	110.1				
110.1	111.4				
111.4	114.0				
114.0	119.0				

HOLE NUMBER D-273-98 PAGE 3 OF 5

.ITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2
96.6 – 142.6 PLANAR LAMINAR		96.6 – 142.6 SEE DESCRIPTION PAGE 2	130 140		117.5–122.5 AUTOBXA? CLAST SUPPORTED W/ PINK VOLCANIC CLAY OR GREEN PROP. CLAY CEMENT 124.0 – 153.5 FRACTURES GENERALLY AT VERY LOW ANGLE TO CORE, 15°–30°.	120.0 – 210.0 SHORTENED SAMPLE INTERVALS DUE TO CONTACTS OR LOC. OF DRILLER BLOCKS 124.–153.5 FRACTURES LINED/FILLED W/ LT. GREEN CLAY, SULFIDES, SOME DRUSY QUARTZ.	119.0 124.0 129.0 134.0 139.0	124.0 129.0 134.0 139.0 142.6				
142.6 – 163.5 F.6. MASSIVE		142.6 – 163.5 EXTREMELY FINE GRAIN MASSIVE FLOW. GLASSY. W/ FRACTURE PATTERN SIMILAR TO VITROPHYRE. DK. GRAY W/ VARIABLE GREEN COLORS MIGHT BE GROUPED W/ VITROPHYRE, VERY FEATURELESS.	PIMA →		142.6 CONTACT GRADATIONAL 153.5–163.5 FRACTURES @ 60°–70° TO CORE AXIS.		142.6 144.0 149.0 152.0 155.0	144.0 149.0 152.0 155.0 160.0				
163.5 – 199.6 VITROPHYRE		163.5 – 199.6 VITROPHYRE, LT. GREEN, DEVITRIFIED W/ CRACKED GLASS APPEARANCE, DEVIT. FRACTURES LINED W/ GREEN CLAY.	160 170 180 190		163.5 CONTACT GRADATIONAL. 163.5–199.6 POST DEVITRIFICATION FRACTURES GENERALLY 30° TO CORE.	163.5–199.6 LINED/FILLED W/ WHITE CLAY, SULFIDES, MINOR QUARTZ 183.0 – 199.6 MINOR CALCITE VEINS IN FRACTURES	160.0 163.5 165.0 170.0 175.0 180.0 185.0	163.5 165.0 170.0 175.0 180.0 185.0 190.0				

HOLE NUMBER D-273-98 PAGE 4 OF 5

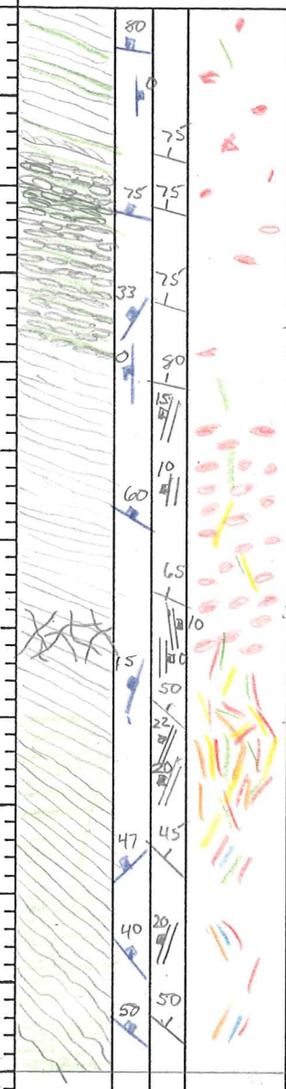
ITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
163.5 - 199.6 VITROPHYRE		163.5 - 199.6 SEE DESCRIPTION PAGE 3				120.0 - 210.0 SHORTENED SAMPLE INTERVALS DUE TO CONTACTS OR LOC. OF DRILLERS BLOCKS.
199.6 - 244.6 F.G. MASSIVE		199.6 - 244.6 GREEN W/ PINKISH UNDERTONES. VERY FINE GRAIN MASSIVE FLOW(S) VIRTUALLY FEATURELESS TO 221.0. AUTOBRECCIATED 221.0 - 237.0 W/ OFTEN INDISTINCT CLASTS.	200 210 PIMA → 220 230 PIMA → 240 250 260		210.0 - 214.0 STRONG OPEN FRACTURE / VUG DEVELOPMENT, DOES NOT APPEAR BRECCIATED. 221.0 - 237.0 AUTOBXA FAINT OUTLINES OF ROUND CLASTS IN GREEN VOLCANIC CLAY MATRIX OF SAME COMPOSITION 232.0 - 234.5 SMALL WHITISH TUFF FRAGS IN THE AUTOBXA. 235.0 - 236.7 OPEN FRACTURES 239.6 - 242.5 OPEN FRACTURES & VUGS, PARTIALLY HEALED BXA. 244.6 GRADATIONAL CONTACT 242.5 - 252.0 MOD. VEINING & OPEN SPACE FILLING.	210.0 - 214.0 FRACTURES/ VUGS LINED W/ DRUZY QUARTZ, BLADED MARC., PY ON MARC., BARITE ON MARC., SOME WHITE CLAY. 235.0 - 236.7 LINED W/ DRUZY QUARTZ BLADED MARC., BARITE 239.6 - 242.5 LINED/ FILLED W/ WHITE CLAY, CALCITE, MARC. BLADES, MOST CLASTS ARE STRONG SILICA REP. SOME BARITE 242.5 - 252.0 OPEN SPACE/FRACTURE/ VUGS LINED W/ DRUZY QUARTZ OR GREEN CLAY, WHITE CLAY, CALCITE, BLADED MARC., MINOR PY.
244.6 - 268.1 PLANAR LAMINAR		244.6 - 268.1 LT. PINKISH GRAY TO LT. GREEN W/ PROPYLITIC STAIN ALONG FRACTURES AND ZONES OF COLOR FLOODING. FINE GRAIN TEXTURE W/ COMMON FLOW BANDS.				

ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2	A
190.0	195.0					
195.0	199.5					
199.5	205.0					
205.0	210.0					
210.0	214.0					
214.0	219.0					
219.0	223.0					
223.0	225.0					
225.0	230.0					
230.0	235.0					
235.0	236.7					
236.7	239.6					
239.6	242.5					
242.5	244.7					
244.7	246.7					
246.7	250.0					
250.0	252.0					
252.0	255.0					
255.0	260.0					

HOLE NUMBER D-273-98 PAGE 5 OF 5

ITH.	OX/RED.	LITHOLOGY	STRUCTURE	ALTERATION AND MINERALIZATION
244.6 - 268.1 PLANAR LAMINAR		244.6 - 268.1 SEE DESCRIPTION PAGE 4		242.5 - 302.0 ROUND TO IRREGULAR SHAPED SULFIDIC SELVAGES OFTEN ASSOC. W/ FRACTURES, SOMETIMES NO STRUCTURAL ASSOC. OBSERVED.
268.1 - 278.6 SPOTTED TUFF		268.1 - 278.6 PINKISH, OVAL TO ELONGATE F.G. PUMICE FRAGS. IN A LT. GREEN APHANITIC VOLCANIC CLAY. PUMICE FRAGS OFTEN HAVE CORE OF WHITE, PINK, GREEN OR GRAY CLAY AND/OR VERY FINE GRAIN DRUZY QUARTZ.	268.1 CONTACT GRADATIONAL	
278.6 - 320.0 PLANAR LAMINAR		278.6 - 320.0 PINKISH-GRAY TO GREEN, FINE GRAIN TO APHANITIC W/ LAMINAR FLOW BANDS +/- PLANAR FRACTURES ALONG FLOW BANDS. GRADES INTO GREEN W/ PINKISH BANDS, BANDED FLOW AT 310.6.	278.6 CONTACT GRADATIONAL 280.0 - 308.0 OPEN FRACTURES NEAR PARALLEL TO CORE AXIS. 294.0 - 297.5 CRACKLE ZONE. 300.6 CONTACT GRADATIONAL 308.0 - 316.0 WEAK → MOD. VEINING	280.0 - 308.0 FRACTURES FILLED/LINED W/ GREEN CLAY & SULFIDES TO 287'. THEREAFTER WHITE CLAY, DRUZY QUARTZ, BLADED MARC., SOME SPOTTY BARITE, VARIABLE PYRITE. 283.0 - 298.0 STRONG PRESENCE OF ROUND TO IRREGULAR SHAPED SULFIDIC SELVAGES 308.0 - 316.0 VEINS FILLED W/ WHITE CLAY, BLADED MARC., CALCITE, MINOR QUARTZ. 309.0 - 320.0 MINOR CALCITE
		320' T.D.		

GRAPHIC LOG



ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2
260.0	265.0				
265.0	268.1				
268.1	271.9				
271.9	275.0				
275.0	278.6				
278.6	280.0				
280.0	281.5				
281.5	285.0				
285.0	290.0				
290.0	292.0				
292.0	294.0				
294.0	297.5				
297.5	300.0				
300.0	303.0				
303.0	306.2				
306.2	310.0				
310.0	315.0				
315.0	320.0				

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-273-98 DATE: 8/26/98 LOGGED BY: ALLYN NILES PAGE 1 OF 6

DRILL RUN		SOLID CORE RECOVERY (%)	TOTAL CORE RECOVERY (%)	RQD	ROCK STRENGTH		FRACTURE DATA				DENSITY DATA			
FROM	TO				DOWNHOLE DEPTH	POINT LOAD INDEX (psi)	FRACTURE DENSITY/FT.	AVG. ANGLE TO C.A.	ROUGHNESS	INFILL	DOWNHOLE DEPTH	SAMPLE WEIGHT (g)	DISPLACEMENT (cc)	DENSITY (g/cc)
0.0	5.0	90.0	92.0	56.0										
5.0	9.0	90.0	90.0	30.0										
9.0	14.0	100.0	100.0	96.0										
14.0	19.0	100.0	100.0	96.0										
19.0	24.0	104.0	104.0	86.0										
24.0	29.0	96.0	96.0	94.0										
29.0	34.0	98.0	100.0	74.0										
34.0	39.0	70.0	96.0	52.0										
39.0	44.0	90.0	94.0	0										
44.0	49.0	90.0	90.0	32.0										
49.0	54.0	102.0	102.0	72.0										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-273-98 DATE: 8/26/98 LOGGED BY: _____ PAGE 2 OF 6

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)
54.0	59.0	100.0	100.0	90.0										
59.0	64.0	80.0	96.0	80.0										
64.0	69.0	96.0	96.0	88.0										
69.0	74.0	104.0	104.0	80.0										
74.0	79.0	100.0	100.0	92.0										
79.0	84.0	100.0	100.0	100.0										
84.0	89.0	100.0	100.0	44.0										
89.0	93.0	112.5	112.5	105.0										
93.0	98.0	100.0	100.0	86.0										
98.0	103.0	98.0	98.0	88.0										
103.0	104.0	25.0	50.0	0										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-273-98 DATE: 8/28/98 LOGGED BY: _____ PAGE 3 OF 6

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)
104.0	109.0	100.0	100.0	98.0										
109.0	114.0	100.0	100.0	98.0										
114.0	119.0	100.0	100.0	80.0										
119.0	124.0	100.0	100.0	90.0										
124.0	129.0	90.0	100.0	60.0										
129.0	134.0	100.0	100.0	74.0										
134.0	139.0	100.0	100.0	60.0										
139.0	144.0	100.0	100.0	84.0										
144.0	149.0	92.0	100.0	50.0										
149.0	152.0	83.3	93.3	20.0										
152.0	155.0	96.0	96.6	60.0										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-273-98 DATE: LOGGED BY: PAGE 4 OF 6

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)
155.0	160.0	100.0	100.0	60.0										
160.0	170.0	100.0	100.0	88.0										
170.0	175.0	98.0	98.0	90.0										
175.0	180.0	98.0	98.0	80.0										
180.0	185.0	84.0	84.0	72.0										
185.0	190.0	100.0	100.0	86.0										
190.0	195.0	94.0	100.0	58.0										
195.0	200.0	100.0	100.0	78.0										
200.0	205.0	90.0	90.0	78.0										
205.0	210.0	96.0	98.0	82.0										
210.0	214.0	92.0	92.0	70.0										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-273-98 DATE: 8/28/98 LOGGED BY: PAGE 5 OF 6

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)
214.0	219.0	100.0	100.0	78.0										
219.0	223.0	100.0	100.0	100.0										
223.0	225.0	100.0	100.0	100.0										
225.0	230.0	100.0	100.0	94.0										
230.0	235.0	100.0	100.0	100.0										
235.0	240.0	100.0	100.0	100.0										
240.0	245.0	90.0	100.0	54.0										
245.0	250.0	100.0	100.0	88.0										
250.0	255.0	100.0	100.0	76.0										
255.0	260.0	100.0	100.0	82.0										
260.0	265.0	100.0	100.0	96.0										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-273-98 DATE: 8/28/98 LOGGED BY: ALLYN NILES PAGE 6 OF 6

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)
265.0	270.0	100.0	100.0	88.0										
270.0	275.0	94.0	94.0	94.0										
275.0	280.0	106.0	106.0	102.0										
280.0	285.0	96.0	96.0	56.0										
285.0	290.0	104.0	104.0	76.0										
290.0	295.0	100.0	100.0	88.0										
295.0	300.0	88.0	88.0	54.0										
300.0	305.0	96.0	96.0	50.0										
305.0	310.0	96.0	96.0	78.0										
310.0	315.0	96.0	98.0	86.0										
315.0	320.0	84.0	84.0	60.0										

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 0050544-IN
INVOICE DATE: 09/25/98

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-273-98	DEVELOPMENT	NET 30 - DUE IN U.S. DOLLARS

QUANTITY	DESCRIPTION	PRICE	AMOUNT
90	SAMPLES RECEIVED	.00	.00
89	DRYING	1.00	89.00
89	JAW CRUSHING CHARGE	1.30	115.70
89	COARSE MILLING CHARGE	4.50	400.50
89	SPLITTING CHARGE	2.40	213.60
89	RING MILLING CHARGE	2.00	178.00
90	Au (1 A.T. FIRE ASSAY)	8.00	720.00
8	Au ANALYSES/GRAVIMETRIC	8.75	70.00
90	HYDROCHLORIC/NITRIC DIGESTION	2.00	180.00
90	Ag ANALYSES	1.00	90.00
4	Ag (ore grade) ANALYSES	5.00	20.00

86-5110-477
KM

NET INVOICE:	2,076.80
LESS DISCOUNT:	415.36
FREIGHT:	.00
INVOICE TOTAL:	1,661.44

xAMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP050544

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-273-98 RECEIVED : 11 SEP 1998

No. SAMPLES : 90 REPORTED : 25 SEP 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 SP050544

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-273-98

REPORTED : 25 SEP 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-273-98 0-5	0.001			0.03
D-273-98 5-9	0.004			0.04
D-273-98 9-14	<0.001			<0.02
D-273-98 14-19	<0.001			<0.02
D-273-98 19.0-22.6	<0.001			<0.02
D-273-98 22.6-24.0	0.001			0.02
D-273-98 24-29	<0.001			<0.02
D-273-98 29-34	0.003			0.05
D-273-98 34.0-36.5	<0.001			<0.02
D-273-98 36.5-39.0	0.014			0.07
D-273-98 39-42	0.005			0.07
D-273-98 42-44	0.002			<0.02
D-273-98 44-49	<0.001			<0.02
D-273-98 49-54	<0.001			<0.02
D-273-98 54-59	<0.001			0.02
D-273-98 59.0-63.2	0.002			0.04
D-273-98 63.2-65.5	0.003			0.09
D-273-98 65.5-69.0	0.004			0.04
D-273-98 69.0-72.8	0.003			0.08
D-273-98 72.8-74.8	0.003			0.06
D-273-98 74.8-76.7	0.004			0.11
D-273-98 76.7-79.0	<0.001			0.02
D-273-98 79-84	0.002			0.03
D-273-98 84-86	0.002			0.05
D-273-98 86-89	0.017			0.11

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP050544

American Assay Laboratories

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REFERENCE : D-273-98

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SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-273-98 89.0-91.4	0.004			0.09
D-273-98 91.4-93.0	0.005			0.09
D-273-98 93.0-94.6	0.004			0.03
D-273-98 94.6-98.0	0.009			0.11
D-273-98 98-103	0.178		0.195	0.25
D-273-98 103.0-106.5	0.037			0.07
D-273-98 106.5-110.1	0.018			0.03
D-273-98 110.1-111.4	0.013			0.56
D-273-98 111.4-114.0	<0.001			0.02
D-273-98 114-119	<0.001			<0.02
D-273-98 119-124	0.009			0.08
D-273-98 124-129	<0.001			<0.02
D-273-98 129-134	<0.001			0.03
D-273-98 134-139	0.037	0.040		0.05
D-273-98 139.0-142.6	0.028			0.06
D-273-98 142.6-144.0	0.008			0.06
D-273-98 144-149	0.006			0.06
D-273-98 149-152	0.001			0.04
D-273-98 152-155	<0.001			<0.02
D-273-98 155-160	0.011			0.04
D-273-98 160.0-163.5	0.007			<0.02
D-273-98 163.5-165.0	0.003			0.04
D-273-98 165-170	0.027			0.05
D-273-98 170-175	0.014			0.08
D-273-98 175-180	<0.001			0.11

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP050544

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CLIENT : HECLA MINING COMPANY
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SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-273-98 180-185	0.033			0.39
D-273-98 185-190	0.010			0.25
D-273-98 190-195	<0.001			0.03
D-273-98 195.0-199.5	<0.001			<0.02
D-273-98 199.5-205.0	0.001			<0.02
D-273-98 205-210	0.002			0.03
D-273-98 210-214	0.106		0.112	0.39
D-273-98 214-219	0.004			0.03
D-273-98 219-223	0.017			0.03
D-273-98 223-225	0.003			0.03
D-273-98 225-230	0.165		0.080	0.16
D-273-98 230-235	0.053			0.09
D-273-98 235.0-236.7	2.447		3.021	4.85
D-273-98 236.7-239.6	0.073			0.21
D-273-98 239.6-242.5	6.509		6.457	6.47
D-273-98 242.5-244.7	1.704		1.717	2.52
D-273-98 244.7-246.7	2.020		1.700	2.74
D-273-98 246.7-250.0	0.018			0.10
D-273-98 250-252	0.046			0.12
D-273-98 252-255	0.002			0.05
D-273-98 255-260	0.009			0.10
D-273-98 260-265	0.002			0.05
D-273-98 265.0-268.1	0.004			0.06
D-273-98 268.1-271.9	0.029			0.12
D-273-98 271.9-275.0	0.061	0.057	0.058	0.13

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D-273-98 280.0-281.5	0.023			0.07
D-273-98 281.5-285.0	0.005			0.07
D-273-98 285-290	0.009			0.06
D-273-98 290-292	0.023			0.09
D-273-98 292-294	0.014			0.08
D-273-98 294.0-297.5	0.007			0.09
D-273-98 297.5-300.0	0.021			0.13
D-273-98 300-303	0.009			0.11
D-273-98 303.0-306.2	0.006			0.09
D-273-98 306.2-310.0	<0.001			0.14
D-273-98 310-315	0.005			0.04
D-273-98 315-320	0.015			0.08
40506	0.536			4.68

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ANALYSIS REPORT SP0050544

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-273-98 RECEIVED : 11 SEP 1998

No. SAMPLES : 90 REPORTED : 25 SEP 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

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D-273-98 14-19	<0.001			<0.02
D-273-98 19.0-22.6	<0.001			<0.02
D-273-98 22.6-24.0	0.001			0.02
D-273-98 24-29	<0.001			<0.02
D-273-98 29-34	0.003			0.05
D-273-98 34.0-36.5	<0.001			<0.02
D-273-98 36.5-39.0	0.014			0.07
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D-273-98 163.5-165.0	0.003			0.04
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D-273-98 170-175	0.014			0.08
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D-273-98 250-252	0.046			0.12
D-273-98 252-255	0.002			0.05
D-273-98 255-260	0.009			0.10
D-273-98 260-265	0.002			0.05
D-273-98 265.0-268.1	0.004			0.06
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D-273-98 285-290	0.009			0.06
D-273-98 290-292	0.023			0.09
D-273-98 292-294	0.014			0.08
D-273-98 294.0-297.5	0.007			0.09
D-273-98 297.5-300.0	0.021			0.13
D-273-98 300-303	0.009			0.11
D-273-98 303.0-306.2	0.006			0.09
D-273-98 306.2-310.0	<0.001			0.14
D-273-98 310-315	0.005			0.04
D-273-98 315-320	0.015			0.08
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AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP050544

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HECLA MINING COMPANY

COPIES TO : KURT ALLEN

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CLIENT REFERENCE No: D-273-98 RECEIVED : 11 SEP 1998

No. SAMPLES : 90 REPORTED : 25 SEP 1998

MAIN SAMPLE TYPE : DRILL CORE

NEVADA LEGISLATIVE DISCLAIMER :-
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ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
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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

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D-273-98 14-19	<0.001			<0.02
D-273-98 19.0-22.6	<0.001			<0.02
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D-273-98 36.5-39.0	0.014			0.07
D-273-98 39-42	0.005			0.07
D-273-98 42-44	0.002			<0.02
D-273-98 44-49	<0.001			<0.02
D-273-98 49-54	<0.001			<0.02
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D-273-98 103.0-106.5	0.037			0.07
D-273-98 106.5-110.1	0.018			0.03
D-273-98 110.1-111.4	0.013			0.56
D-273-98 111.4-114.0	<0.001			0.02
D-273-98 114-119	<0.001			<0.02
D-273-98 119-124	0.009			0.08
D-273-98 124-129	<0.001			<0.02
D-273-98 129-134	<0.001			0.03
D-273-98 134-139	0.037	0.040		0.05
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D-273-98 199.5-205.0		0.001			<0.02	
D-273-98 205-210		0.002			0.03	
D-273-98 210-214		0.106		0.112	0.39	225-246.7
D-273-98 214-219		0.004			0.03	=21.5' @
D-273-98 219-223		0.017			0.03	
D-273-98 223-225		0.003			0.03	235-246.7' =
D-273-98 225-230	5	0.165		0.080	0.16	11.7 @
D-273-98 230-235	5	0.053			0.09	
D-273-98 235.0-236.7	1.7	2.447		3.021	4.85	1.478 Au
D-273-98 236.7-239.6	2.9	0.073			0.21	1.83 Ag
D-273-98 239.6-242.5	2.9	6.509		6.457	6.47	
D-273-98 242.5-244.7	2.0	1.704		1.717	2.52	
D-273-98 244.7-246.7	2.0	2.020		1.700	2.74	
D-273-98 246.7-250.0		0.018			0.10	
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40506	0.536			4.68

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 LLC

Address: PO 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: 9/8/98 Number of Samples: 89

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

AU-AG ACCORDING TO ROSEBUD MINE PROTOCOL

D-273-98 SAMPLE IDENTIFICATION			TYPE	ELEMENTS REQUIRED		
0-5	59-63.2	103-106.5				
5-9	63.2-65.5	106.5-110.1		160-163.5	223-225	268.1-271.9
9-14	65.5-69	110.1-111.4		163.5-165	225-230	271.9-275.
14-19	69-72.8	111.4-114		165-170	230-235	275-278.6
19-22.6	72.8-74.8	114-119		170-175	235-236.7	278.6-280
22.6-24	74.8-76.7	119-124		175-180	236.7-239.6	280-281.5
24-29	76.7-79	124-129		180-185	239.6-242.5	281.5-285
29-34	79-84	129-134		185-190	242.5-244.7	285-290
34-36.5	84-86	134-139		190-195	244.7-246.7	290-292
36.5-39	86-89	139-142.6		195-199.5	246.7-250	292-294
39-42	89-91.4	142.6-144		199.5-205	250-252	294-297.5
42-44	91.4-93	144-149		205-210	252-255	297.5-300
44-49	93-94.6	149-152		210-214	255-260	301-303
49-54	94.6-98	152-155		214-219	260-265	303-306.2
54-59	98-103	155-160		219-223	265-268.1	306.2-310

COARSE REJECTS (Normally Discarded After 60 Days)

[ ] Return COD after analysis complete

PULPS (Normally Stored Free For One Month) 310-315 315-320

[ ] 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-273-98	0	67.5	129.2
	160	67.5	126.2
	320	67.5	125.2

19'
14'
D-273-98 BOX 2
DEPTH 10 - 19_5

5
9
D-273-98 BOX 1
DEPTH 0 - 10

24
D-273-98 BOX 3
DEPTH 19_5 - 29

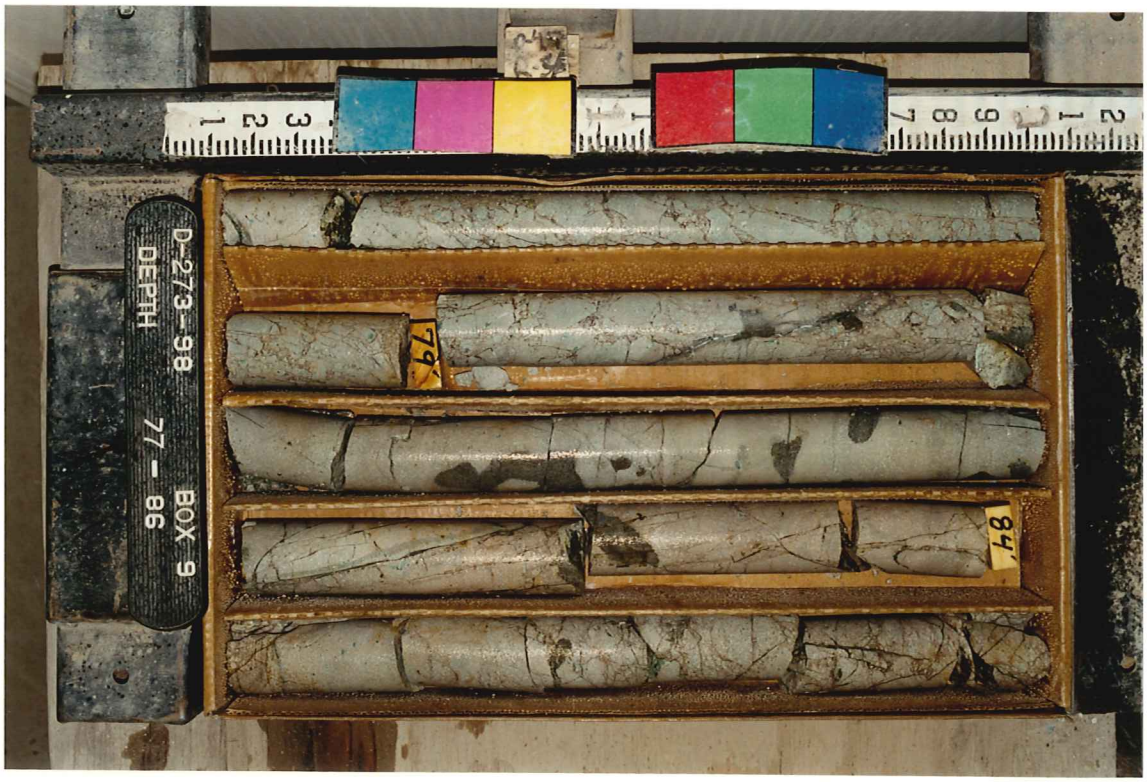
D-273-98 BOX 5
DEPTH 38_5 - 48_5
39
44

D-273-98 BOX 4
DEPTH 29 - 38_5
29
34

D-273-98 BOX 6
DEPTH 48_5 - 58
49
54

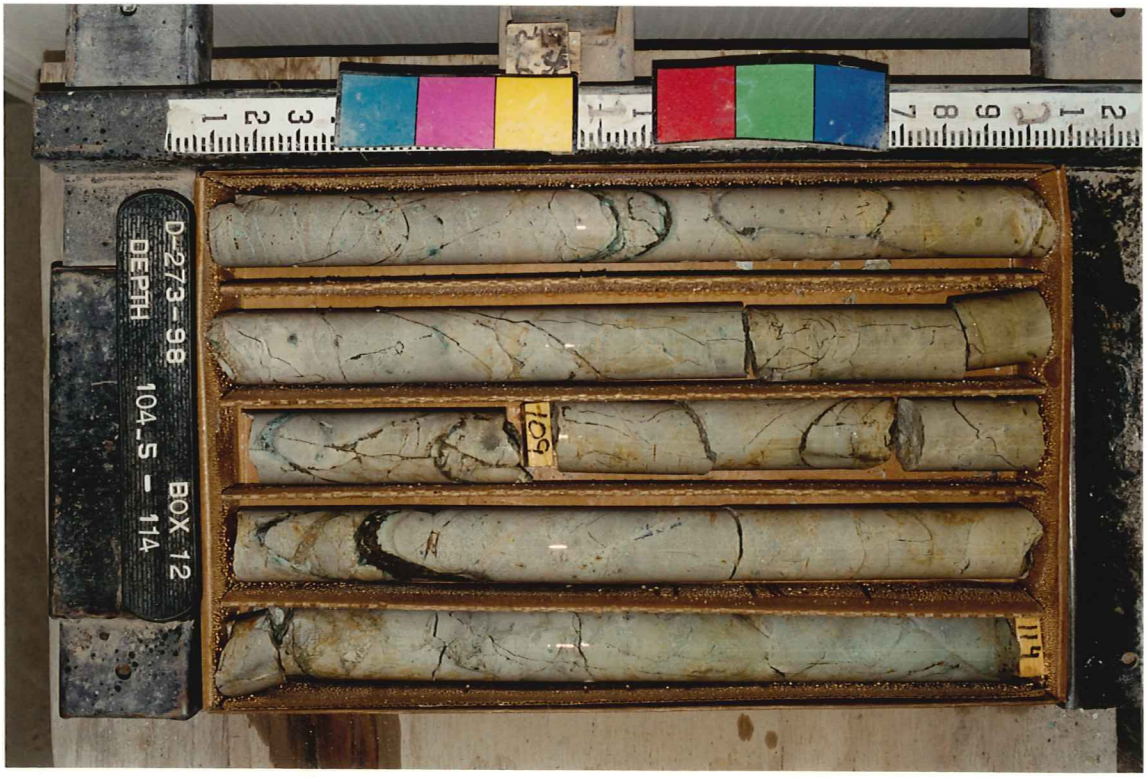
69
74
D-273-98
BOX 8
DEPTH
67.5 - 77

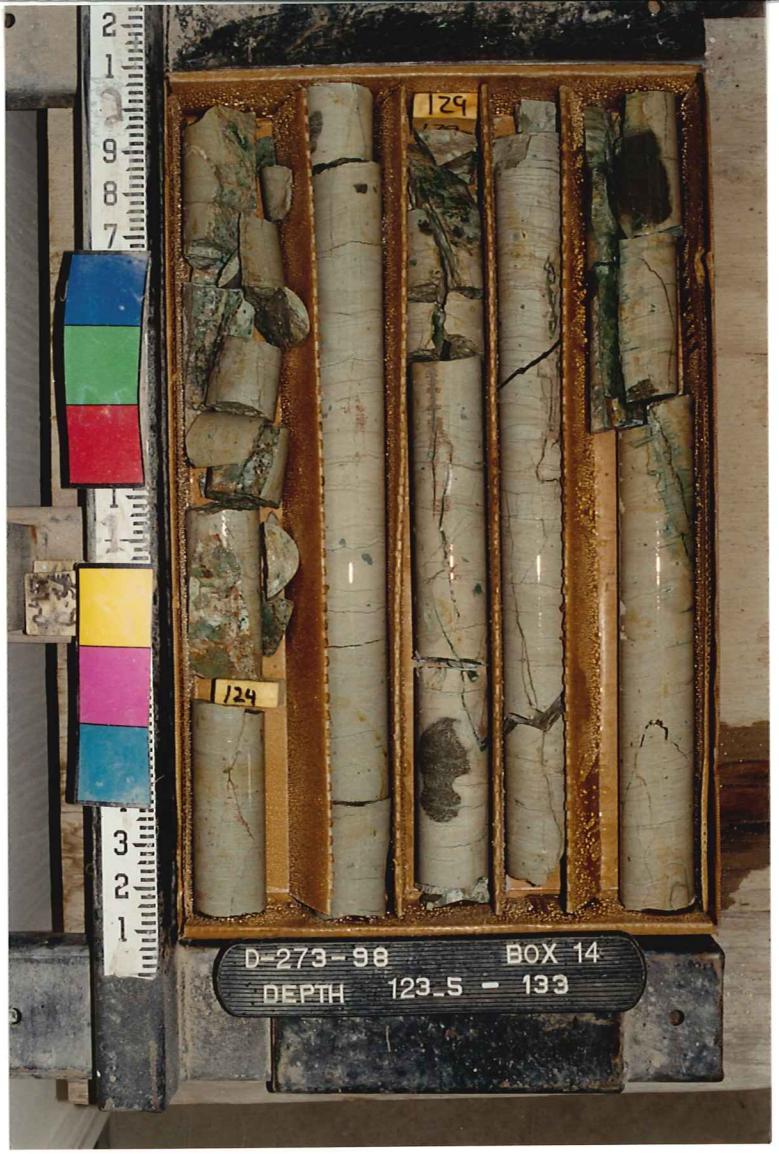
59
64
D-273-98
BOX 7
DEPTH
58 - 67.5


79
84
D-273-98
BOX 9
DEPTH
77 - 86

98
104
103
D-273-98 BOX 11
DEPTH 95 - 104_5

89
93
D-273-98 BOX 10
DEPTH 86 - 95


109
115
D-273-98 BOX 12
DEPTH 104_5 - 114


129
124
D-273-98 BOX 14
DEPTH 123_5 - 133

119
D-273-98 BOX 13
DEPTH 114 - 123_5

134
139
D-273-98 BOX 15
DEPTH 133 - 142_5

155
160
D-273-98
BOX 17
DEPTH 152 - 161.5

144
149
152
D-273-98
BOX 16
DEPTH 142.5 - 152

165
170
D-273-98
BOX 18
DEPTH 161.5 - 171

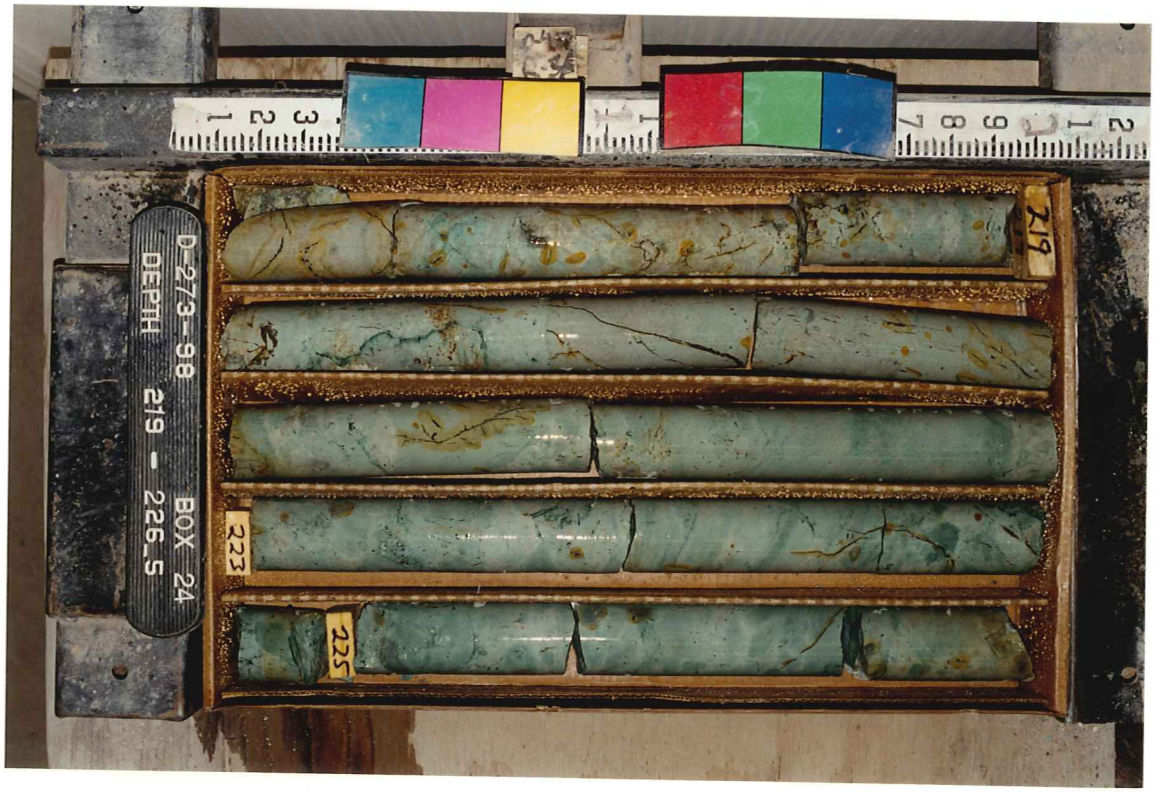
D-273-98 BOX 20
DEPTH 180_5 - 190
180
185

D-273-98 BOX 19
DEPTH 171 - 180_5
175

D-273-98 BOX 21
DEPTH 190 - 199
190
195

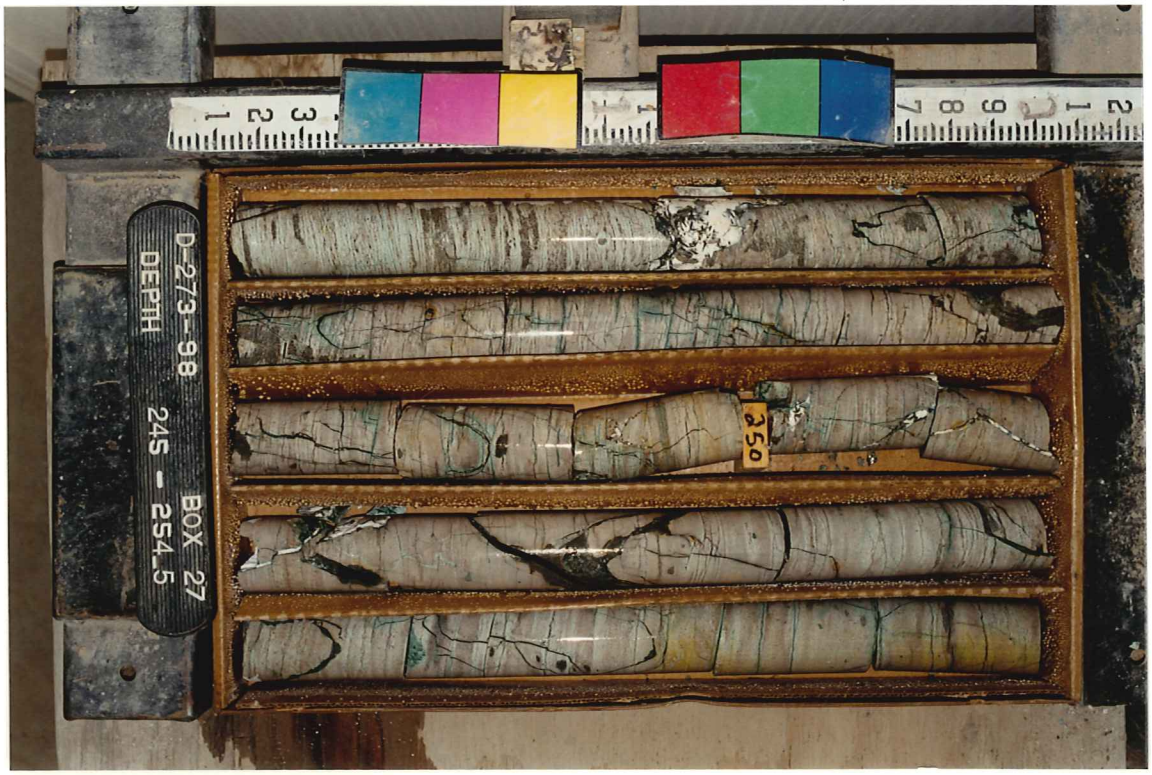
210
214
D-273-98 BOX 23
DEPTH 209 - 219

200
205
D-273-98 BOX 22
DEPTH 199 - 209


D-273-98 BOX 24
DEPTH 219 - 226.5
219
223
225

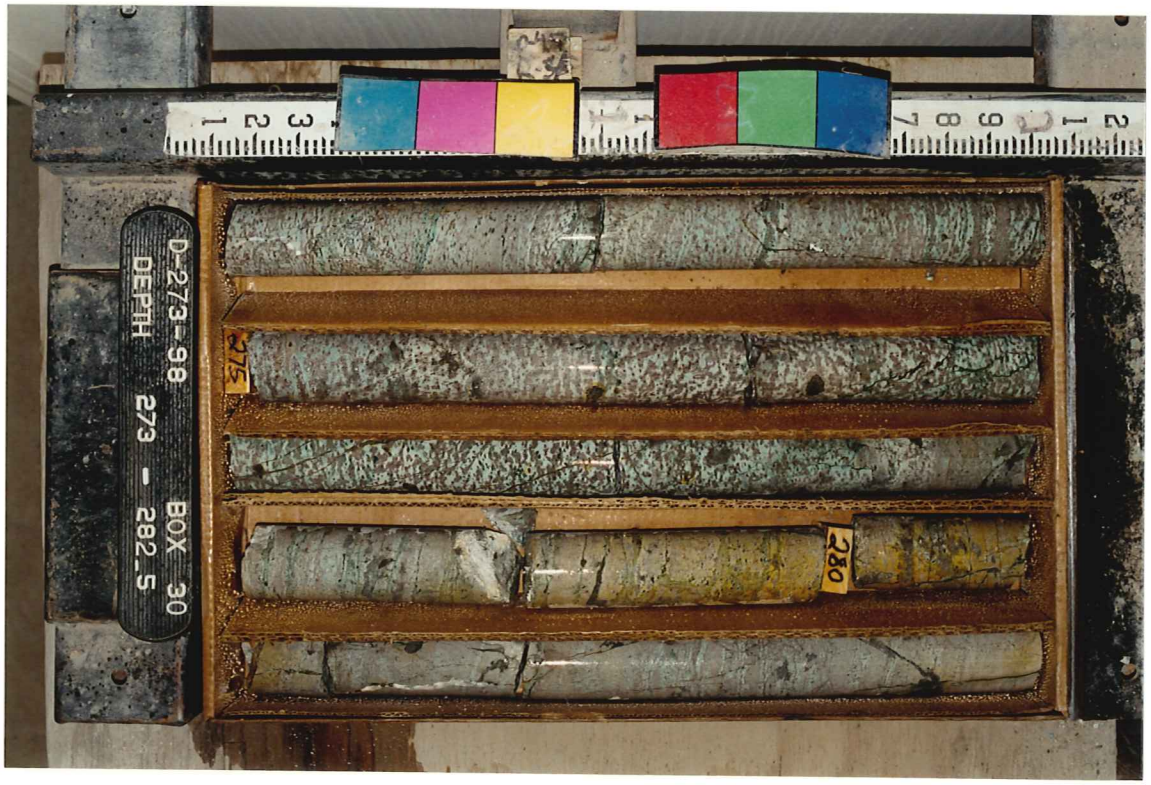
245
240
D-273-98 BOX 26
DEPTH 236 - 245

230
235
D-273-98 BOX 25
DEPTH 226_5 - 236


250
D-273-98 BOX 27
DEPTH 245 - 254_5

265
270
D-273-98 BOX 29
DEPTH 264 - 273

255
260
D-273-98 BOX 28
DEPTH 254_5 - 264


275
280
D-273-98 BOX 30
DEPTH 273 - 282_5

300
295
D-273-98 BOX 32
DEPTH 292 - 302

290
285
D-273-98 BOX 31
DEPTH 282_5 - 292

D-273-98 BOX 33
DEPTH 302 - 311_5
305
310

315
320
D-273-98
BOX 34
DEPTH 311_5 - 320 TD

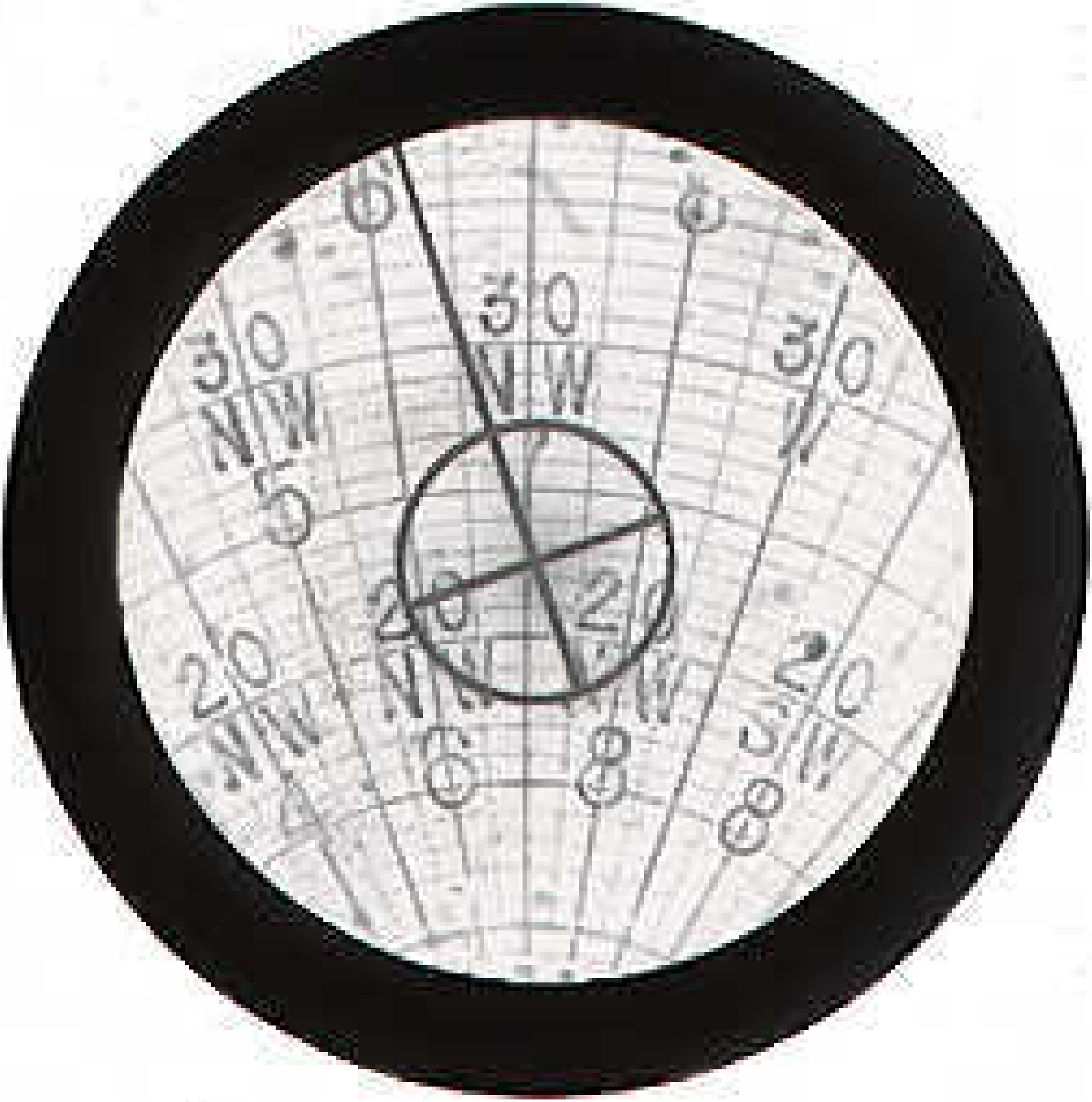
SINGLE SHOT
PHOTO DISC RECORD

COMPANY Hecla
WELL NAME D-273-98
LEASE
TAKEN BY Hughes
DEPTH Collar
DATE 6-23-98
DRIFT ANGLE
DIRECTION
TYPE
JOB NO.
HI-1408

6
30
NW
5
30
NW
30
NW
6
8
30
NW
8

SINGLE SHOT
PHOTO DISC RECORD

COMPANY Hecla
WELL NAME O-273-98
LEASE
TAKEN BY Hughes
DEPTH 160
DATE 6-23-98
DRIFT ANGLE
DIRECTION
TYPE
JOB NO.
HI-1408

SINGLE SHOT
PHOTO DISC RECORD

COMPANY Hecla
WELL NAME O-273-98
LEASE
TAKEN BY Hughes
DEPTH 320
DATE 6-23-98
DRIFT ANGLE
DIRECTION
TYPE
JOB NO.
HI-1408