60001095

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-214-98
AUTHOR	S. King; K. Allen
DATE OF DOC(S)	1998
MULTI_DIST Y / (N?) Additional Dist_Nos:	
QUAD_NAME	Sulphur 7.5'
P_M_C_NAME (mine, claim & company names)	Rosebud Mine; Rosebud Project; Rosebud Mining Co. LLC Hecla Mining Co.
COMMODITY If not obvious	gold; silver
NOTES	Drill log; geology; assay; photographs; total depth 230' receipt; handwritten notes; downhole camera images 32p. 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: DP 5/13/08
Initials Date

DB: mah
Initials Date

SCANNED:
Initials Date

Revised: 1/22/08

D-214-98

6000 1095 4010

16000/095

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

Hecla MINING COMPANY

ROSEBUD PROJECT
DIAMOND DRILL LOG

HOLE NUMBER D-214-98 | LOCATION ACCESS 42, EAST | REMARKS
PAGE 1 OF 4 | NORTHING
DATE 05/11/98 | EASTING
LOGGED BY HSM | ELEVATION
SCALE 1"=10' | AZIMUTH N54W
TOTAL DEPTH 230' | INCLINATION +17

WITH.	OX / RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
0.0 – 161.3' DOZER		0.0'-183.0': SLIGHTLY GRNISH-GRY, FINELY, STRONGLY AUTOBRECCIATED DOZER.	0		MODERATE JOINTING	0.0'-~17.6': MOD. STKWK'D GRN CLAY VNLTS, AND GRY-GRN MODLY SILICEOUS SiO_2+ GRN CLAY BRECCIA VNS, +/- WK/MOD MARC/PY. TRACE DISS'D PY. WAXY LT. GRN CLAY +/- SiO_2 & MARC IS ALSO COMMON AS FRAX COATINGS.
			10			
			20			~17.6'-~49': LT. GRY-GRN SiO_2+ GRN CLAY + MARC/PY STOCKWORK DECCREASES TO WK WISPY GRN CLAY VNLTS. WALLRK PYRITIC BLEBS PICK UP ~ 20'. TRACE QZ+MARC VEINLETS.
			30			
			40			
			50			~49-51.5': MOD., MFG, DULL GRAY SULFIDES IN MATRIX

ANALYTICAL DATA						
FROM	TO	W	Au	Ag	Au2	Ag
0.0	5.0					
5.0	10.0					
10.0	13.8					
13.8	17.6					
17.6	20.7					
20.7	25.0					
25.0	30.0					
30.0	35.0					
35.0	40.0					
40.0	45.0					
45.0	50.0					

HOLE NUMBER D-214-98 PAGE 2 OF 4

LITH.	OX/RED.	LITHOLOGY
0.0'-DOZER	161.3'	0.0'-153.0': CONT'D SLIGHTLY GRNISH-GRY, FINELY, STRONGLY AUTOBRECCIATED DOZER.

FT

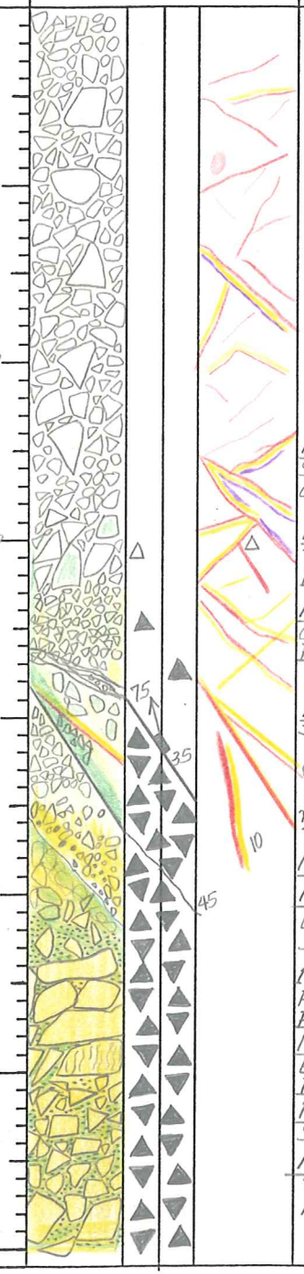
GRAPHIC LOG

STRUCTURE

ALTERATION AND MINERALIZATION	ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2
	50.0	55.0				
51.5-61': AS ABOVE. WISPY PY/MARC +/- GRN CLAY VNLTS PERVASIVE TRACE ARGILLIZATION OF WALLROCK. TRACE DISSEMINATED PYRITE. TR QZ + MARC +/- CLAY VNLTS.	55.0	60.0				
61'-76': CONTINUED AS ABOVE BUT LARGER, MORE COMMON SILICA + MARCASITE VEINS WITH BLOCKY BARITE IN OPEN SPACE.	60.0	65.0				
	65.0	70.0				
76'-81.6': DARK SILICA-SULFIDE VNS AND SILICA + MARCASITE BRECCIA VEINS INCREASED TO MOD/STR. THRU THIS INTERVAL. DARK SPOTTILY SULFIDIC SILICA SOAKS INTO AUTOBRECCIA & X-CUTS IT IN VN CRACKLE TO MOSAIC BRECCIA. BLOCKY BARITE MODERATE ON LATE FRAX.	70.0	75.0				
	75.0	78.0				
	78.0	81.6				
	81.6	85.0				
81.6-92': AS ABOVE. WK WISPY PY +/- GRN CLAY VNLTS, WK PYRITIC BLEBBING IN GROUNDMASS	85.0	90.0				
	90.0	95.0				
92.0 - ~98': VFG, BLK-GRY CLAY? OR SULFIDE? ON FRAX & AS THIN BRECCIA VNLTS.	95.0	100.0				
92-102': MOD/WK SILICA (QZ) + MARC +/- BARITE VNLTS						
102-112': AS FROM 81.6-92'.	100.0	105.0				
112.0'-145': WK QUARTZ + MARC VNLTS. WISPY PY VNLTS & TRACE/WK WALLROCK ARGILLIZATION CONTINUE.	105.0	110.0				
	110.0	115.0				
	115.0	120.0				

HOLE NUMBER D-214-98 PAGE 3 OF 4

LITH.	OX/RED.	LITHOLOGY
0.0 – 161.3' DOZER		0.0-153.0': LT TO MEDIUM GRNISH-GRAY, FINELY, STRONGLY AUTOBRECCIATED DOZER.
		153.0'-~157': WK CATACLASTIC OVERPRINT ON FINE DOZER AUTOBRECCIA. (+ HYDROTHERMAL OVERPRINT)
		~157'-159.1': HEALED MYLONITE & MATRIX-SUPPORTED, MONOLITHIC MOSAIC BRECCIA: 157.5-157.7': DULL ORANGE ROCK FLOUR + LT BLDE-GRN FRAGMTS FORM A FULLY HEALED MYLONITE AT 70° TO C/A. 157.7'-159.1': LARGER SUB-ANGULAR PEBBLE-SIZED LT BLDE-GRN FRAGMENTS FLOAT IN A LT. ORNG-TAN WKLY SHEARED MATRIX.
161.3 – SOUTH RIDGE FAULT		159.1-161.2': AS FROM 153.0-~157'. SLIGHTLY STRONGER CATACLASIS. TAN TO FAINT ORNG-TAN & GRN-TAN.
		161.2-162.1': MIXED LITHOLOGY SHEARED TO MILLED ZONE BELOW SLICK PLANE. 2-3" OF MEDIUM GREEN CLAY ALTERED SILICIFIED POSSIBLE BLD BTWN SILICA VNLTS.
		162.1-166.0': AS FROM 153.0-157.0 TECTONICALLY OVERPRINTED DOZER AUTOBXA. STR TO MOD. CRACKLE/SHATTER OVERPRINT.
		166.0-166.9': 1" THICK BLACK SILICA-SULFIDE VEIN. STR. SILICA FLOODING & MILLING INCREASE BELOW THIS VN.
		166.9-168.7': FINELY TO MOD'LY MILLED STRONGLY SILICIFIED DOZER.
		168.7-169.8': MEDIUM GRN STRLY SILICIFIED MIXED LITHOLOGY MILLED BRECCIA, ROCK FLOUR MUSH.
		169.8-170.7': AS ABOVE BUT COMPRISED OF LT. TAN FINE-GRAINED (DOZER?) FRAGMENTS.



STRUCTURE	ALTERATION AND MINERALIZATION
151.0': MANGLED WKLY PUNKY SHEAR AT THE INTERSECTN OF 2 PYRITIC VNLTS, 25°, 30°	112.0-145.0': CONT'D WK PERVASIVE ARGILLIZATN OF WALLROCK. WK QUARTZ + MARC + DARK PYRITE +/- BLOCKY BARITE VNS, VNLTS.
161.3: FIRST CLEAR CUT TECTONIC OVERPRINT ON DOZER AUTOBRECCIA.	145.0-153.0': INCREASE IN SILICA + MARC + PYRITE +/- BARITE VNLTS TO MOD. CONT'D WK PERVASIVE WALLROCK ARGILLIZATION TO 150', MOD. TO 153'.
162.1-166.0': WK/MOD CRACKLE OR CATACLASIS OVER AUTOBRECCIA.	153.0'-~157': WK PERVASIVE SILICIFICATN OVERPRINT ON PERVASIVE GRN CLAY ALT'N. MOD. SILICA + MARC + DARK PYRITE VEINLETS WITH STR. TO MOD. DIFFUSE GRY SILICA VNLTS. NO BARITE.
162.0': SULFIDE-SLICKED JOINT. 35°, 75° SLICKS.	~157-159.1': MODERATE ARGILLIZATION LOCALLY OVERPRINTED BY SILICA. MOD/WK PY VNLTS.
166.0-166.9': INCREASED MILLING/INTENSITY OF & BRXATN & ALT'N ACROSS THIS INTERVAL.	159.1-161.2': AS FROM 153.0'-157'.
166.9-168.7': STRLY MILLED, EXPANDED	161.2-162.1': MODERATE SiO_2 MOD/STR GRN CLAY, STR. SILICA VNING. MOD/STR. VFG BLK SULFIDE VNLTS
168.7-170.7': MODLY MILLED OR MANGLED. CLAST-SUPPORTED OR TIGHT.	162.1-166.0': MOD SiO_2 OVER WK PERVASIVE ARGILLIZATN, MOD. PY VNLTS ⊥ C/A.
170.7-172.6': MATRIX-SUPPORTED EXPANDED MOSAIC BXA.	166.0-166.9': STR SiO_2, INT. BLK SILICA-SULFIDE VN
172.6-180': CLAST-SUPPORTED MOSAIC TO CRACKLE BXA.	166.9-168.7': STR./INT SiO_2 FLOODING OVER PERVASIVE WK ARG'D BXA.
180.0'-183.4': MATRIX-SUPPORTED MOSAIC BXA.	168.7-169.8': STR. GRN CLAY ALTN STR. SiO_2 MOD DISS'D MARC/PY. POSSIBLE CPY
183.4'-191.7': MATRIX- TO CLAST-SUPPORTED MOSAIC BXA.	

ANALYTICAL DATA					
FROM	TO	W	Au	Ag	Au2
120.0	125.0				
125.0	130.0				
130.0	135.0				
135.0	139.9				
139.9	145.0				
145.0	150.0				
150.0	153.0				
153.0	157.2				
157.2	159.1				
159.1	161.2				
161.2	162.1				
162.1	166.0	~166.9			
166.9	168.7				
168.7	170.7				
170.7	172.6				
172.6	177.1				
177.1	180.0				
180.0	183.4				
183.4	188.5				

HOLE NUMBER D-214-98 PAGE 4 OF 4

LITH.	OX/RED	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
161.3-219.1' SOUTH RIDGE FAULT		170.7': ABRUPT CHANGE IN BXA TEXTURE. MORE EXPANDED & DISTINCT IN TEXTURE TO 191.7 170.7-172.6': PARTIALLY MATRIX-SUPPORTED, HETEROLITHIC WELL-DEFINED MOSAIC BRECCIA. LT. TAN, ANGULAR TO SUB-ANGULAR FG FRAGMTS FLOAT IN GRN CLAY-ALTERED, PROBABLY BUD-DERIVED, COMMINUTED MATRIX. 172.6-191.7': VARIABLY CLAST- TO MATRIX-SUPPORTED, WELL-DEFINED MOSAIC BRECCIA. MORE STRLY HETEROLITHIC THAN ABOVE WITH: 172.6-180': COBBLE-SIZED MASSIVE & WAVY LAMINATED LBT-AFFINITY TAN-BRN FRAGMTS CEMENT W/ GRY SILICA & 180.0-183.3': ~~HAS~~ FROM 170.7-172.6' W/ MORE SiO_2 IN MATRIX. 183.3-191.7': COBBLE-SIZED TAN (LBT?) FRAGMENTS IN CRACKLE TO MATRIX-SUPPORTED MOSAIC BXA. 191.7-195.0': TIGHT, WKLY MILLED, RUBBLY CRACKLE BRECCIA IN APHANITIC LT. TAN (DOZER? LBT?) ROCK. MONOMICT. 195.0-201.3': DULL TAN-BRN (LBT?) RK. MORE INTACT & CATACLASTIZED THAN BRECCIATED. 201.3-204.4': PUNKY TO SILICIFIED HETEROLITHIC ROCK FLOUR. SOME PERLITICALLY CRACKLED FRAGMTS. PROB. "CLAY-ALTERED" VITROPHYRE" AFFINITY. 204.4-209.9': INTENSELY SILICIFIED GRN RK FLOUR/BRECCIA AS ABOVE, WITH ZONES OF TOTAL REPLACEMT SILICA TO 20' BANDS OF MULTI-EPISODE REPLACEMT SILICA BRECCIA AT 40-20° TO CA. VARIABLY WHT TO GRY. 209.9-~218.0': HARD BRN FRAGMTS OF PROBABLE FG PINK PORPHYRY IN SILICIFIED, MOSTLY SILICA-CEMENTED BRECCIA RANGING IN TEXTURE FROM EXPANDED, FINELY COMMINUTED MOSAIC BXA TO WHT CLAY + SiO_2 MATRIXED CRACKLE BXA. WHT CLAY MATRIX BXA LATE WRT SiO_2 CEMENTED BRECCIA. 217.2-219.1': MANGLED MIXED LITHOLOGY BRECCIA WITH CONTORTED OVERPRINTING GRN CLAY & SILICA + MARC/PY VNS & FLOODING. 219.1-230': STRONGLY CONTORTED BRECCIA. HETEROLITHIC COBBLE TO PEBBLE-SIZED CLASTS OF GRN CLAY ALTERED BUD, HARD, BRN FG PINK PORPHYRY & OTHER LITHOLOGIES FORM A RUBBLIZED LOCALLY SILICA-FLOODED MUSH-BXA. FRAGMT/MATRIX DIVISION IS POORLY DEFINED & OBSCURED BY ALT'N. TD 230'	190 200 210 220 230 240		PYRARGERITE 191.7-195': FRAGMT-SUPPORTED, MONOMICT, WKLY RUBBLIZED BXA. 195.0-201.3': TEXTURE AS ABOVE IN DIFFERENT ROCK. TIGHT CATACLASTIC TEXTURED, CRACKLE BXA TO 200.7' WHERE IT OPENS TO STRLY MILLED SILICA-FLOODED. WKLY 201.3-209.9': HETEROLITHIC MATRIX-RICH TECTONIC BRECCIA OVERPRINTED W/ MULTI-EPISODE HYDROTHERMAL BXA IN SILICA REPLACEMT ZONES. 209.9': MINOR UNHEALED FLT BXA BTWN LITH. TYPES 209.9-217.2': MOSAIC TO CRACKLE BXA. ESSENTIALLY MONOLITHIC 217.2-219.1': TRANSITION FROM TECTONIC BXA TO TECTONIZED BXA UNIT 219.1-230': TECTONICED VOLCANICLASTIC BXA. ~226': ~4" UNHEALED GRIT	169.8-170.7': MOD. SiO_2, STR. IN MATRIX OVER WK PERVASIVE CLAY. WK DISS'D PY/MARC 170.7-172.6': MOD. GRN CLAY ALT'N IN MATRIX STRLY OVERPRINTED BY SILICA. WK SiO_2 IN FRAGMTS. WK/MOD. DISS'D MARC/PY. 172.6-188.5': CONTINUED INTERMITTENTLY INTENSE TO MOD. SiO_2 OVER MOD. GRN CLAY ALT'N IN MATRIX. WK TO TR SiO_2 IN TAN/BRN FRAGMENTS. WK DISS'D PY/MARC. WK WHT CLAY IN VUGS. 188.5-191.7': AS ABOVE, X-CUT BY STR. FRIABLE WHT CLAY +/- PYRARGERITE & MARC VNS. +/- BLOCKY BARITE. 191.7-195.0': STR/MOD SiO_2 CEMENT. 195.0-201.3': STR. SILICA +/- VNING OR BXA CEMENT & WK PERVASIVE SiO_2. WK DISS'D PY. WHT CLAY WITH SILICA VNS = SPARSE. 201.3-204.4': STR. GRN CLAY ALT'N LOCALLY OVERPRINTED WITH MOD. SiO_2, MOD. GRY SILICA VNLTS, TR. LATE WHT CLAY. 204.4-207.0': ~50% REPLACEMT SILICA WHT TO GRY. STRLY SILICIFIED OVER STR GRN CLAY ALT'N WHERE NOT REPLACED 207.0-209.9': STR. GRN CLAY & SILICA ALT'N. MOD WHT CLAY VNLTS. 209.9-217.2': STR. SILICIFICATN OF MATRIX, MOD/STR SILICA IN FRAGMTS. STR. WHT CLAY +/- SiO_2 VNING 217.2-219.1': MOD. PERVASIVE SILICIFICATN STR. SILICA VNING. MOD. DISS'D & WISPY VNLTS OF MARC/PY. 219.1-230.0': STRONG TO MOD. PUNKY GRN CLAY ALT'N LOCAL VNS OF SILICA + MARC. FLOODING. STR. MARC/PY VNLTS

ANALYTICAL DATA					
FROM	TO	W	Au	Ag	Au2
188.5	191.7				
191.7	195.0				
198.2	198.2				
198.2	201.3				
201.3	204.4				
204.4	207.0				
207.0	209.9				
209.9	214.0				
214.0	217.2				
217.2	219.1				
219.1	223.0				
223.0	226.5				
226.5	230.0				

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-214-98 DATE: 05/11/98 LOGGED BY: HBM PAGE 1 OF 5

DRILL RUN		SOLID CORE	TOTAL CORE	RQD	ROCK STRENGTH		FRACTURE DATA				DENSITY DATA			
FROM	TO	RECOVERY (%)	RECOVERY (%)		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	5.0	100.0	100.0	64.0										
5.0	10.0	100.0	100.0	98.0										
10.0	15.0	102.0	102.0	76.0										
15.0	20.0	100.0	100.0	76.0										
20.0	25.0	100.0	100.0	64.0										
25.0	30.0	98.0	98.0	76.0										
30.0	35.0	96.0	96.0	78.0										
35.0	40.0	100.0	100.0	96.0										
40.0	45.0	100.0	100.0	68.0										
45.0	50.0	96.0	96.0	66.0										
50.0	55.0	104.0	104.0	100.0										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-214-98 DATE: 05/11/98 LOGGED BY: HSM PAGE 2 OF 5

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)
55.0	60.0	90.0	90.0	84.0										
60.0	65.0	100.0	100.0	88.0										
65.0	70.0	96.0	96.0	72.0										
70.0	75.0	102.0	102.0	90.0										
75.0	80.0	100.0	100.0	88.0										
80.0	85.0	100.0	100.0	72.0										
85.0	90.0	100.0	100.0	44.0										
90.0	95.0	90.0	90.0	40.0										
95.0	100.0	100.0	100.0	40.0										
100.0	105.0	98.0	98.0	50.0										
105.0	110.0	102.0	102.0	56.0										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-214-98 DATE: 05/11/98 LOGGED BY: HSM PAGE 3 OF 5

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)
110.0	115.0	100.0	100.0	42.0										
115.0	120.0	104.0	104.0	68.0										
120.0	125.0	100.0	100.0	66.0										
125.0	130.0	98.0	98.0	53.0										
130.0	135.0	98.0	98.0	54.0										
135.0	139.0	97.5	97.5	55.0										
139.0	144.0	96.0	96.0	54.0										
144.0	147.0	96.7	96.7	43.3										
147.0	150.0	100.5	100.5	53.3										
150.0	155.0	102.0	102.0	46.0										
155.0	160.0	86.0	86.0	34.0										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-214-98 DATE: 05/11/98 LOGGED BY: HSM PAGE 4 OF 5

DRILL RUN		SOLID CORE	TOTAL CORE	ROD	ROCK STRENGTH		FRACTURE DATA				DENSITY DATA			
FROM	TO	RECOVERY (%)	RECOVERY (%)		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)
160.0	165.0	106.0	106.0	56.0										
165.0	170.0	98.0	98.0	80.0										
170.0	175.0	100.0	100.0	66.0										
175.0	180.0	98.0	98.0	32.0										
180.0	183.0	120.0	120.0	93.3										
183.0	185.0	120.0	120.0	120.0										
185.0	190.0	92.0	92.0	80.0										
190.0	195.0	94.0	94.0	44.0										
195.0	200.0	100.0	100.0	78.0										
200.0	205.0	94.0	94.0	54.0										
205.0	207.0	90.0	90.0	50.0										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-214-98 DATE: 05/11/98 LOGGED BY: KSM PAGE 5 OF 5

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)
207.0	210.0	76.0	76.7	53.3										
210.0	211.0	30.0	30.0	0										
211.0	214.0	90.0	90.0	56.7										
214.0	217.0	100.0	100.0	0										
217.0	220.0	103.3	103.3	20.0										
220.0	222.0	90.0	90.0	25.0										
222.0	223.0	80.0	80.0	0										
223.0	224.0	70.0	70.0	0										
224.0	225.0	60.0	60.0	0										
225.0	230.0	100.0	100.0	44.0										
	TD													

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP0488873

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-214-98

RECEIVED : 14 MAY 1998

No. SAMPLES : 60

REPORTED : 27 MAY 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

05/27/1998 12:02 7023561413 AMERICAN ASSAY LABS PAGE 01
7023561413

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP04B873

CLIENT : RECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-214-98

REPORTED : 27 MAY 1998

SAMPLES		AU(OZ)	AU(RZ)	AUGRAV	AG(OZ)	
D-214-98 00-05		0.006			0.03	
D-214-98 05-10		0.007			0.03	
D-214-98 10.0-13.8		0.010			0.05	
D-214-98 13.8-17.6		0.005			0.03	
D-214-98 17.6-20.7		0.001			0.02	
D-214-98 20.7-25.0		0.001			0.08	
D-214-98 25-30		0.009			0.04	
D-214-98 30-35		0.019			0.03	
D-214-98 35-40		0.002			0.03	
D-214-98 40-45		0.006	0.005		0.02	
D-214-98 45-50		0.003			0.03	
D-214-98 50-55		0.002	0.002		0.03	
D-214-98 55-60		0.115		0.104	0.07	
D-214-98 60-65		0.033			0.04	
D-214-98 65-70		0.039			0.04	70-95 = 25 @
D-214-98 70-75	5	0.504		0.500	0.29	
D-214-98 75-78	3	1.211		1.242	0.88	1.142 Au
D-214-98 78.0-81.6	3.6	5.470		5.425	6.93	1.32 Ag
D-214-98 81.6-85.0	3.4	0.403		0.354	0.32	
D-214-98 85-90	5	0.010			0.05	
D-214-98 90-95	5	0.255		0.205	0.30	
D-214-98 95-100		0.007			0.03	
D-214-98 100-105		0.010			0.04	
D-214-98 105-110		0.002			0.03	
D-214-98 110-115		0.014			0.04	

05/27/1998 12:02 7023561413 AMERICAN ASSAY LABS PAGE 02

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP0488873

CLIENT : RECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-214-98

REPORTED : 27 MAY 1998

SAMPLES		Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)	
D-214-98 115-120		0.038			0.06	
D-214-98 120-125		0.009			0.05	
D-214-98 125-130		0.010	0.018		0.04	
D-214-98 130-135		0.099		0.077	0.08	135-157.2 = 22.2'
D-214-98 135.0-139.9	4.9	0.285	0.495	0.393	0.32	
D-214-98 139.9-145.0	5.1	0.006			0.04	0.169 Au
D-214-98 145-150	5	0.180		0.184	0.10	0.15 Ag
D-214-98 150-153	3	0.040			0.02	
D-214-98 153.0-157.2	4.2	0.308		0.359	0.25	
D-214-98 157.2-159.1		0.038			0.06	
D-214-98 159.1-161.2		0.027			0.04	
D-214-98 161.2-162.1		0.033			0.03	
D-214-98 162.1-166.0		0.101		0.102	0.05	
D-214-98 166.0-166.9		0.017			0.03	
D-214-98 166.9-168.7		0.003			<0.02	170.7-180 = 9.3'
D-214-98 168.7-170.7		0.011			0.07	
D-214-98 170.7-172.6	1.9	0.398		0.347	0.23	1.728 Au
D-214-98 172.6-177.1	4.5	1.729		2.123	1.42	1.79 Ag
D-214-98 177.1-180.0	2.9	2.602	2.184	3.401	3.40	
D-214-98 180.0-183.4		0.011			0.08	
D-214-98 183.4-188.5		0.033			0.08	
D-214-98 188.5-191.7		0.055	0.085	0.160	2.43	
D-214-98 191.7-195.0		0.014			0.20	
D-214-98 195.0-198.2		0.084		0.077	0.23	198.2-201.3 = 3.1'
D-214-98 198.2-201.3		0.249		0.267	0.10	

05/27/1998 12:02 7023561413 AMERICAN ASSAY LABS PAGE 03

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP04887A

CLIENT : BECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-214-98

REPORTED : 27 MAY 1998

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
D-214-98 201.3-204.4	0.003			0.96
D-214-98 204.4-207.0	0.001			0.15
D-214-98 207.0-209.9	0.002			0.16
D-214-98 209.9-214.0	0.006	0.005		0.39
D-214-98 214.0-217.2	0.005			0.23
D-214-98 217.2-219.1	0.008			0.28
D-214-98 219.1-223.0	0.016			0.60
D-214-98 223.0-226.5	0.012			0.91
D-214-98 226.5-230.0	0.014			2.25
31086	0.548			2.87

05/27/1998 12:02 7023561413 AMERICAN ASSAY LABS PAGE 04

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

(702) 356-0606

INVOICE NO: SP 0048873-IN
INVOICE DATE: 05/28/98

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-214-98	DEVELOPMENT	NET 30 - DUE IN U.S. DOLLARS

QUANTITY	DESCRIPTION	PRICE	AMOUNT
60	SAMPLES RECEIVED	.00	.00
59	JAW CRUSHING CHARGE	1.30	76.70
59	COARSE MILLING CHARGE	4.50	265.50
59	SPLITTING CHARGE	2.40	141.60
59	RING MILLING CHARGE	2.00	118.00
60	Au (1 A.T. FIRE ASSAY)	8.00	480.00
17	Au ANALYSES/GRAVIMETRIC	8.75	148.75
60	HYDROCHLORIC/NITRIC DIGESTION	2.00	120.00
60	Ag ANALYSES	1.00	60.00
3	Ag (ore grade) ANALYSES	5.00	15.00

86-5710-477
$DD

NET INVOICE:	1,425.55
LESS DISCOUNT:	285.11
FREIGHT:	.00
INVOICE TOTAL:	1,140.44

xAMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP048873

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-214-98

No. SAMPLES : 60

MAIN SAMPLE TYPE : DRILL CORE

RECEIVED : 14 MAY 1998

REPORTED : 27 MAY 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 SP048873

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-214-98

REPORTED : 27 MAY 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-214-98 00-05	0.006			0.03
D-214-98 05-10	0.007			0.03
D-214-98 10.0-13.8	0.010			0.05
D-214-98 13.8-17.6	0.005			0.03
D-214-98 17.6-20.7	0.001			0.02
D-214-98 20.7-25.0	0.001			0.08
D-214-98 25-30	0.009			0.04
D-214-98 30-35	0.019			0.03
D-214-98 35-40	0.002			0.03
D-214-98 40-45	0.006	0.005		0.02
D-214-98 45-50	0.003			0.03
D-214-98 50-55	0.002	0.002		0.03
D-214-98 55-60	0.115		0.104	0.07
D-214-98 60-65	0.033			0.04
D-214-98 65-70	0.039			0.04
D-214-98 70-75	0.504		0.500	0.29
D-214-98 75-78	1.211		1.242	0.88
D-214-98 78.0-81.6	5.470		5.425	6.93
D-214-98 81.6-85.0	0.403		0.354	0.32
D-214-98 85-90	0.010			0.05
D-214-98 90-95	0.256		0.205	0.50
D-214-98 95-100	0.007			0.03
D-214-98 100-105	0.010			0.04
D-214-98 105-110	0.002			0.03
D-214-98 110-115	0.014			0.04

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP048873

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-214-98

REPORTED : 27 MAY 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-214-98 115-120	0.038			0.06
D-214-98 120-125	0.009			0.05
D-214-98 125-130	0.010	0.018		0.04
D-214-98 130-135	0.099		0.077	0.08
D-214-98 135.0-139.9	0.285	0.495	0.399	0.32
D-214-98 139.9-145.0	0.006			0.04
D-214-98 145-150	0.180		0.184	0.10
D-214-98 150-153	0.040			0.02
D-214-98 153.0-157.2	0.308		0.359	0.25
D-214-98 157.2-159.1	0.038			0.06
D-214-98 159.1-161.2	0.027			0.04
D-214-98 161.2-162.1	0.033			0.03
D-214-98 162.1-166.0	0.101		0.102	0.05
D-214-98 166.0-166.9	0.017			0.03
D-214-98 166.9-168.7	0.003			<0.02
D-214-98 168.7-170.7	0.011			0.07
D-214-98 170.7-172.6	0.398		0.347	0.23
D-214-98 172.6-177.1	1.729		2.123	1.42
D-214-98 177.1-180.0	2.602	2.184	3.401	3.40
D-214-98 180.0-183.4	0.011			0.08
D-214-98 183.4-188.5	0.033			0.08
D-214-98 188.5-191.7	0.055	0.086	0.160	7.43
D-214-98 191.7-195.0	0.014			0.20
D-214-98 195.0-198.2	0.084		0.077	0.73
D-214-98 198.2-201.3	0.240		0.257	0.10

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP048873

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-214-98

REPORTED : 27 MAY 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-214-98 201.3-204.4	0.003			0.96
D-214-98 204.4-207.0	0.001			0.15
D-214-98 207.0-209.9	0.002			0.16
D-214-98 209.9-214.0	0.006	0.005		0.39
D-214-98 214.0-217.2	0.005			0.23
D-214-98 217.2-219.1	0.008			0.28
D-214-98 219.1-223.0	0.016			0.60
D-214-98 223.0-226.5	0.012			0.91
D-214-98 226.5-230.0	0.014			2.25
31086	0.548			2.87

xAMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP048873

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-214-98 RECEIVED : 14 MAY 1998

No. SAMPLES : 60 REPORTED : 27 MAY 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 $P048873

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-214-98

REPORTED : 27 MAY 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-214-98 00-05	0.006			0.03
D-214-98 05-10	0.007			0.03
D-214-98 10.0-13.8	0.010			0.05
D-214-98 13.8-17.6	0.005			0.03
D-214-98 17.6-20.7	0.001			0.02
D-214-98 20.7-25.0	0.001			0.08
D-214-98 25-30	0.009			0.04
D-214-98 30-35	0.019			0.03
D-214-98 35-40	0.002			0.03
D-214-98 40-45	0.006	0.005		0.02
D-214-98 45-50	0.003			0.03
D-214-98 50-55	0.002	0.002		0.03
D-214-98 55-60	0.115		0.104	0.07
D-214-98 60-65	0.033			0.04
D-214-98 65-70	0.039			0.04
D-214-98 70-75	0.504		0.500	0.29
D-214-98 75-78	1.211		1.242	0.88
D-214-98 78.0-81.6	5.470		5.425	6.93
D-214-98 81.6-85.0	0.403		0.354	0.32
D-214-98 85-90	0.010			0.05
D-214-98 90-95	0.256		0.205	0.50
D-214-98 95-100	0.007			0.03
D-214-98 100-105	0.010			0.04
D-214-98 105-110	0.002			0.03
D-214-98 110-115	0.014			0.04

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP048873

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-214-98

REPORTED : 27 MAY 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-214-98 115-120	0.038			0.06
D-214-98 120-125	0.009			0.05
D-214-98 125-130	0.010	0.018		0.04
D-214-98 130-135	0.099		0.077	0.08
D-214-98 135.0-139.9	0.285	0.495	0.399	0.32
D-214-98 139.9-145.0	0.006			0.04
D-214-98 145-150	0.180		0.184	0.10
D-214-98 150-153	0.040			0.02
D-214-98 153.0-157.2	0.308		0.359	0.25
D-214-98 157.2-159.1	0.038			0.06
D-214-98 159.1-161.2	0.027			0.04
D-214-98 161.2-162.1	0.033			0.03
D-214-98 162.1-166.0	0.101		0.102	0.05
D-214-98 166.0-166.9	0.017			0.03
D-214-98 166.9-168.7	0.003			<0.02
D-214-98 168.7-170.7	0.011			0.07
D-214-98 170.7-172.6	0.398		0.347	0.23
D-214-98 172.6-177.1	1.729		2.123	1.42
D-214-98 177.1-180.0	2.602	2.184	3.401	3.40
D-214-98 180.0-183.4	0.011			0.08
D-214-98 183.4-188.5	0.033			0.08
D-214-98 188.5-191.7	0.055	0.086	0.160	7.43
D-214-98 191.7-195.0	0.014			0.20
D-214-98 195.0-198.2	0.084		0.077	0.73
D-214-98 198.2-201.3	0.240		0.257	0.10

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP048873

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD DEVELOPMENT
REFERENCE : D-214-98

REPORTED : 27 MAY 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-214-98 201.3-204.4	0.003			0.96
D-214-98 204.4-207.0	0.001			0.15
D-214-98 207.0-209.9	0.002			0.16
D-214-98 209.9-214.0	0.006	0.005		0.39
D-214-98 214.0-217.2	0.005			0.23
D-214-98 217.2-219.1	0.008			0.28
D-214-98 219.1-223.0	0.016			0.60
D-214-98 223.0-226.5	0.012			0.91
D-214-98 226.5-230.0	0.014			2.25
31086	0.548			2.87

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

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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 Co LLT

Address: P.O. 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: 05/12/98 Number of Samples: 59

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

D-214-98 SAMPLE IDENTIFICATION		TYPE	ELEMENTS REQUIRED		
0-5.0	70.0-75.0	CORE	Ag-AA ACCORDING TO ROSEBUD		
5-10.0	75.0-78.0		MINE PROTOCOL		
10.0-13.8	78.0-81.6		139.9-145.0	177.1-180.0	219.1-223.0
13.8-17.6	81.6-85.0		145.0-150.0	180.0-183.4	223.0-226.5
17.6-20.7	85.0-90.0		150.0-153.0	183.4-188.5	226.5-230.0
20.7-25.0	90.0-95.0		153.0-157.2	188.5-191.7	
25.0-30.0	95.0-100.0		157.2-159.1	191.7-195.0	
30.0-35.0	100.0-105.0		159.1-161.2	195.0-198.2	
35.0-40.0	105.0-110.0		161.2-162.1	198.2-201.3	
40.0-45.0	110.0-115.0		162.1-166.0	201.3-204.4	
45.0-50.0	115.0-120.0		166.0-166.9	204.4-207.0	
50.0-55.0	120.0-125.0		166.9-168.7	207.0-209.9	
55.0-60.0	125.0-130.0		168.7-170.7	209.9-214.0	
60.0-65.0	130.0-135.0		170.7-172.6	214.0-217.2	
65.0-70.0	135.0-139.9		172.6-177.1	217.2-219.1	

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:

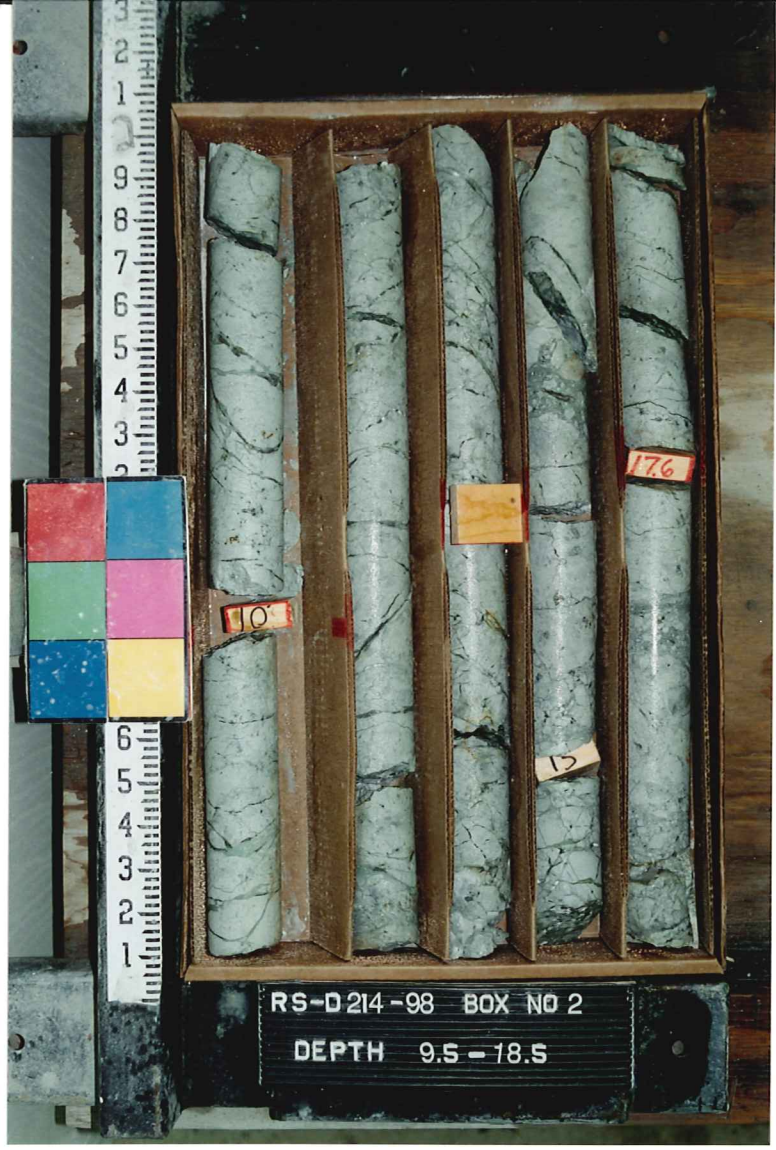
KURT ALLEN

Results to:

KURT ALLEN

Comments:

CLIENT FILE COPY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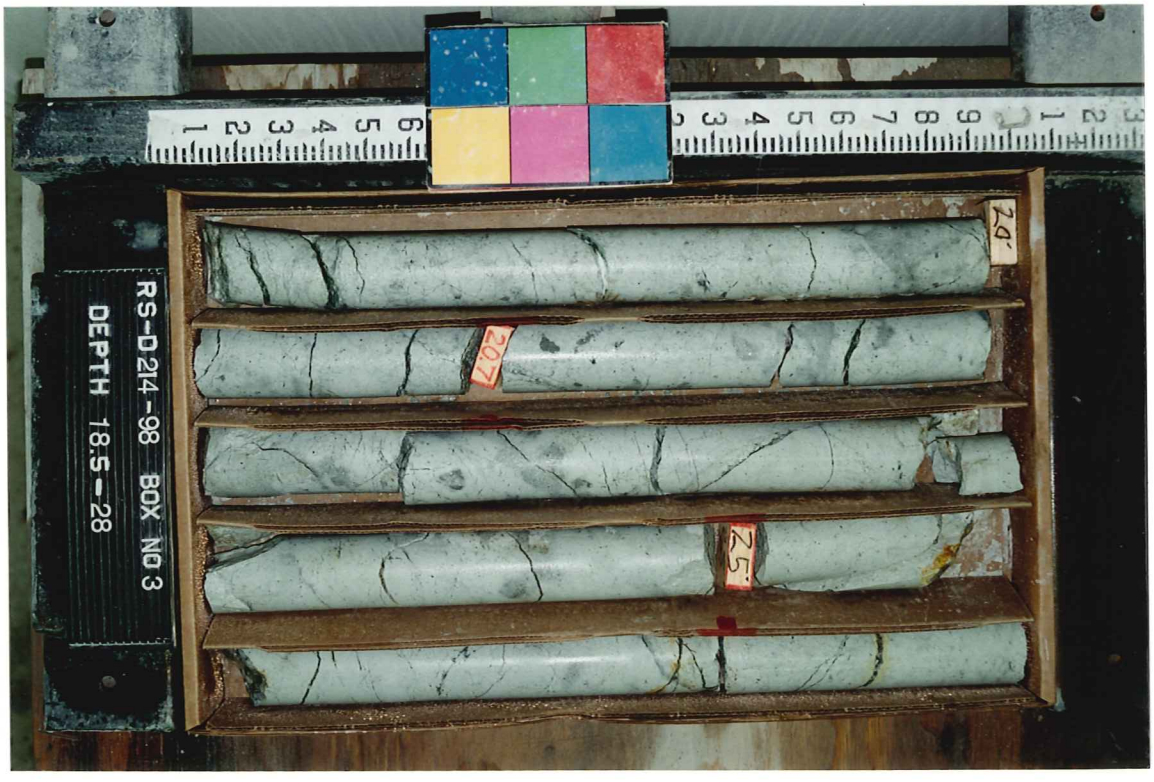
DEPTH 9.5 - 18.5

RS-D214-98 BOX NO 1
DEPTH 0 - 9.5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DEPTH 18.5 - 28

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45'
RS-D 214-98 BOX NO 5
DEPTH 37-46

35'
30'
RS-D 214-98 BOX NO 4
DEPTH 28-37

50'
55'
RS-D 214-98 BOX NO 6
DEPTH 46-55

RS-D 214-98 BOX NO 8
DEPTH 64.5-74

RS-D 214-98 BOX NO 7
DEPTH 55-64.5

RS-D 214-98 BOX NO 9
DEPTH 74-83

RS-D 214-98 BOX NO 11
DEPTH 92.5-102

RS-D 214-98 BOX NO 10
DEPTH 83-92.5

RS-D 214-98 BOX NO 12
DEPTH 102-111.5

130
125
RS-D 214-98 BOX NO 14
DEPTH 121 - 130.5

120
115
RS-D 214-98 BOX NO 13
DEPTH 111.5-121

135
139
RS-D 214-98 BOX NO 15
DEPTH 130.5-140

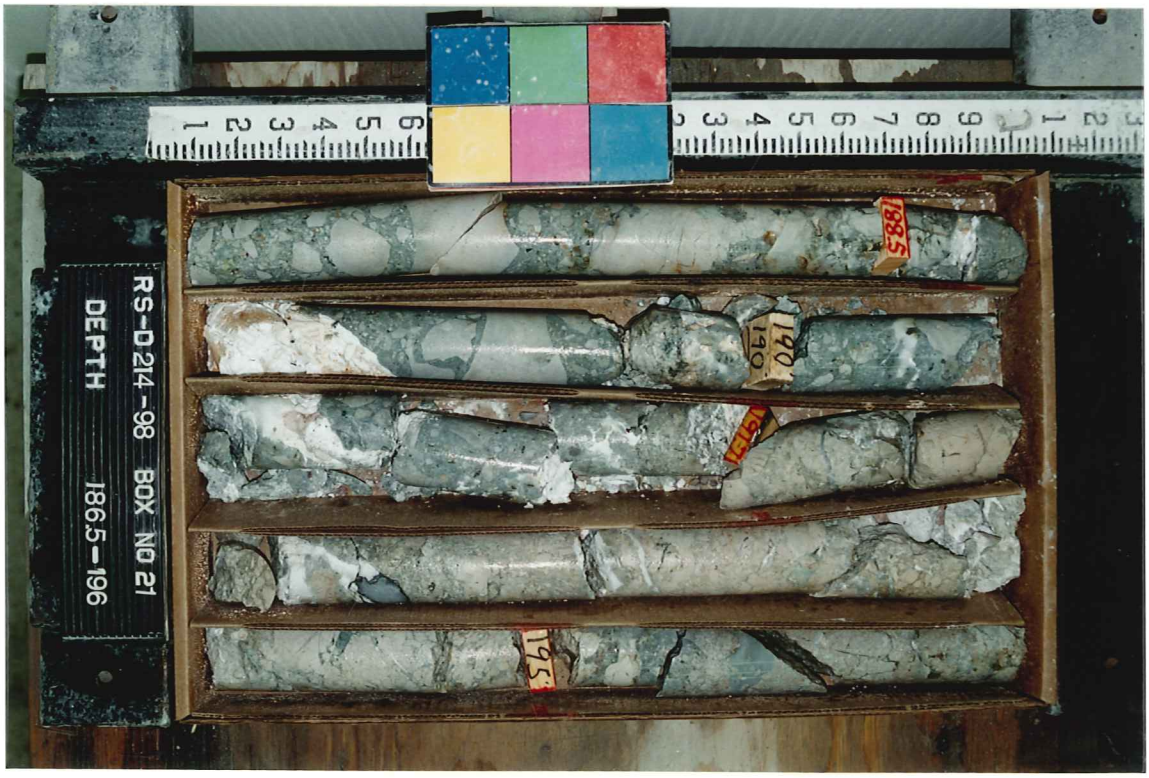
RS-D 214-98 BOX NO 17
DEPTH 149.5-159
159.1
150
157.2
153.0
155

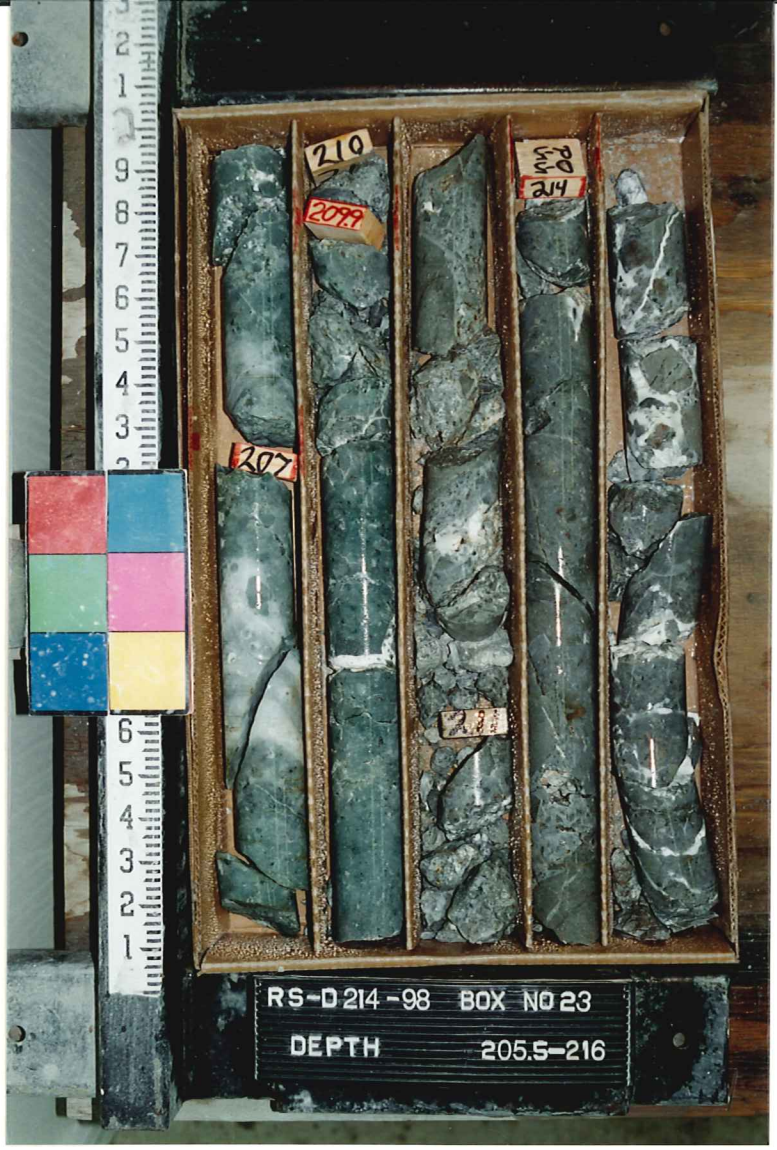
RS-D 214-98 BOX NO 16
DEPTH 140 - 149.5
144
145.0
147
139.9

RS-D 214-98 BOX NO 18
DEPTH 159 - 169.5
160
161.2
162.1
165
166.0
169.1

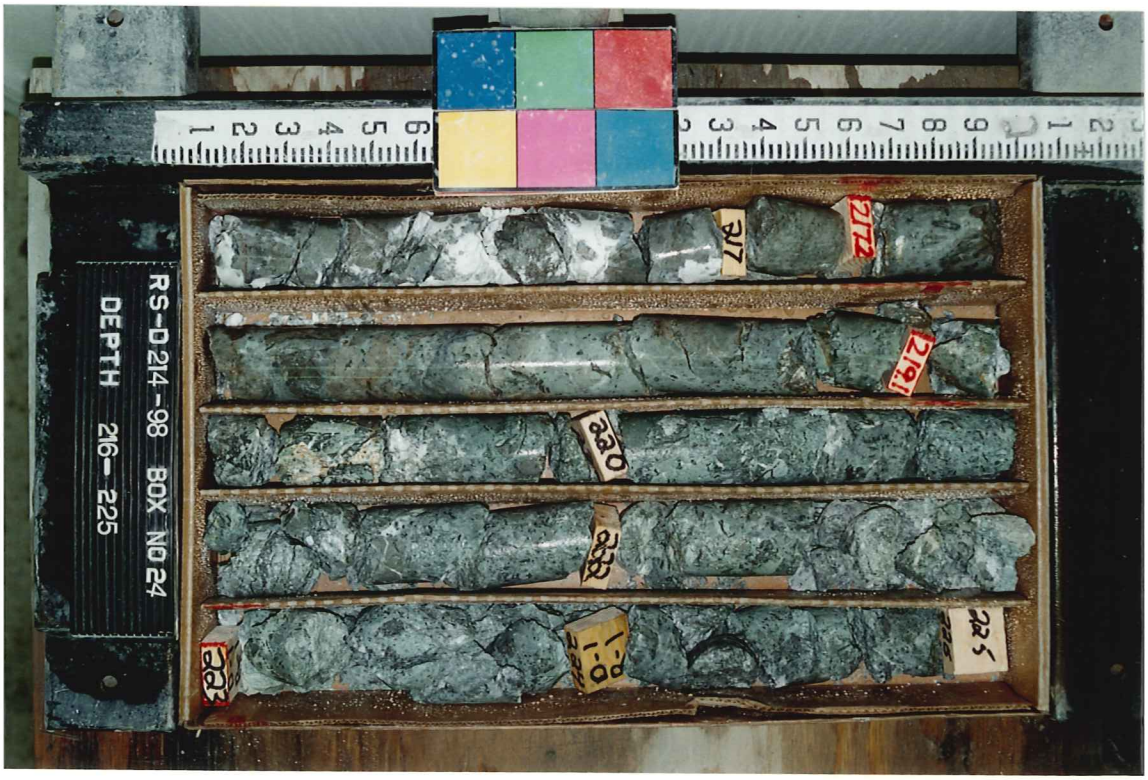
180
183
185
183.4
RS-D 214-98 BOX NO 20
DEPTH 178-186.5

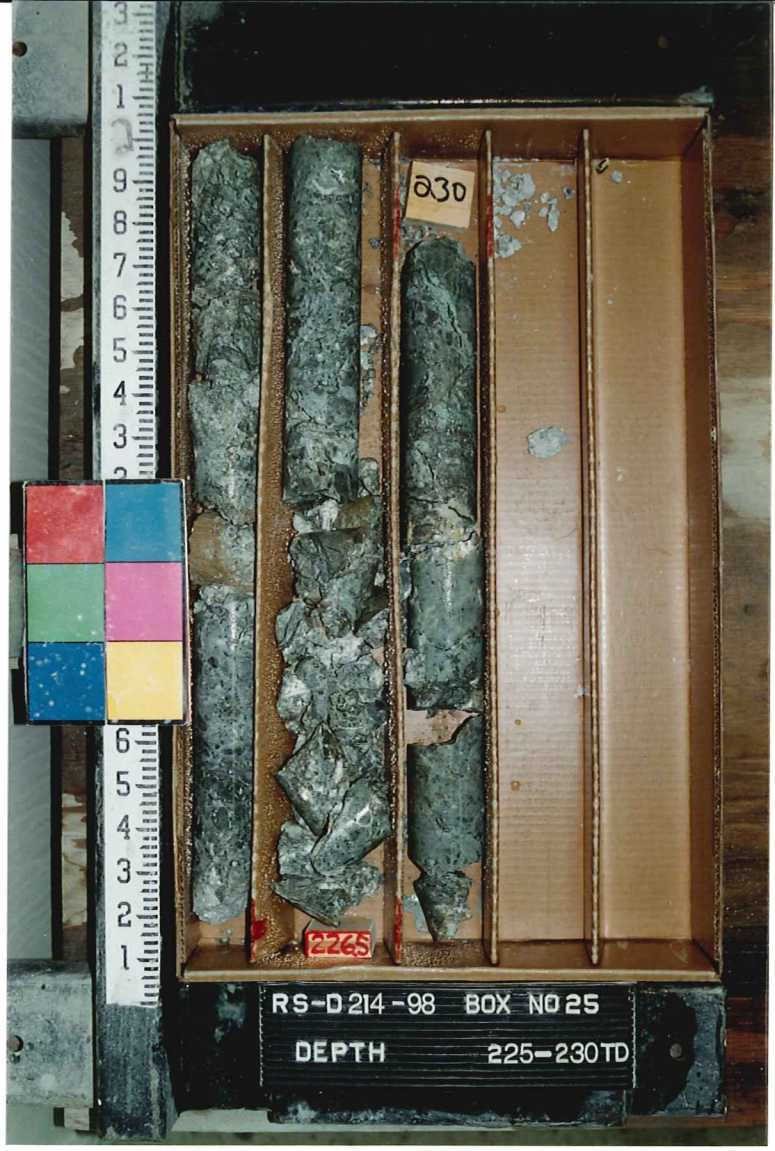
170
175
177.1
172.6
170.7
168.1
RS-D 214-98 BOX NO 19
DEPTH 169.5-178


188.5
190.
191.1
195
RS-D 214-98 BOX NO 21
DEPTH 186.5-196


RS-D 214-98 BOX NO 23
DEPTH 205.5-216

RS-D 214-98 BOX NO 22
DEPTH 196-205.5


RS-D 214-98 BOX NO 24
DEPTH 216- 225


230
2265
RS-D214-98 BOX NO 25
DEPTH 225-230TD

SINGLE SHOT
PHOTO DISC RECORD

COMPANY _____

WELL NAME D-214-98

LEASE _____

TAKEN BY Jerome

DEPTH Collar

DATE 3-29-98

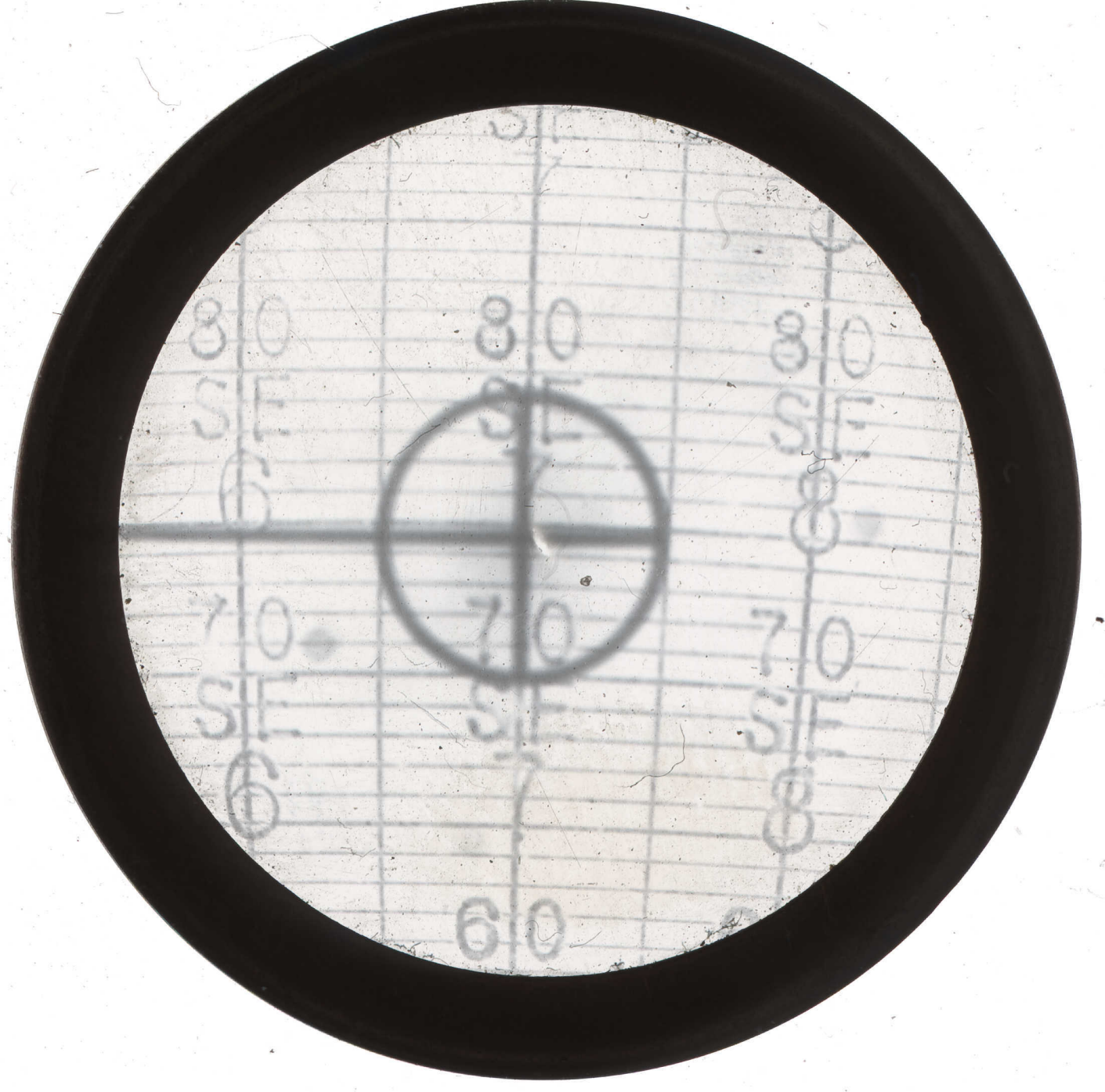
DRIFT ANGLE _____

DIRECTION _____

TYPE _____

JOB NO. _____

HI-1408


80
80
80
70
70
70
60

SINGLE SHOT
PHOTO DISC RECORD

COMPANY _____

WELL NAME D-214-98

LEASE _____

TAKEN BY Jerome

DEPTH 115'

DATE 3-29-98

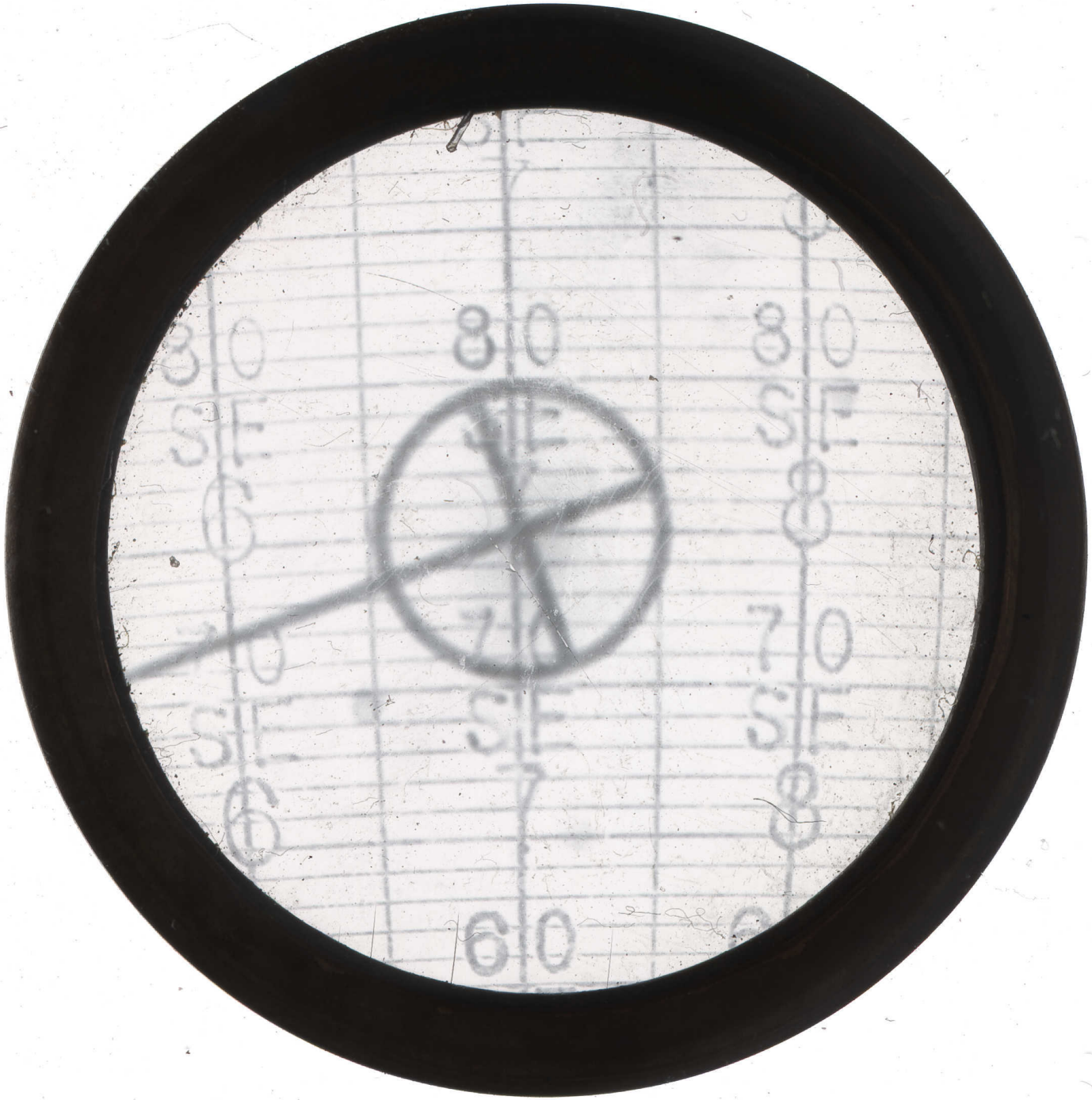
DRIFT ANGLE _____

DIRECTION _____

TYPE _____

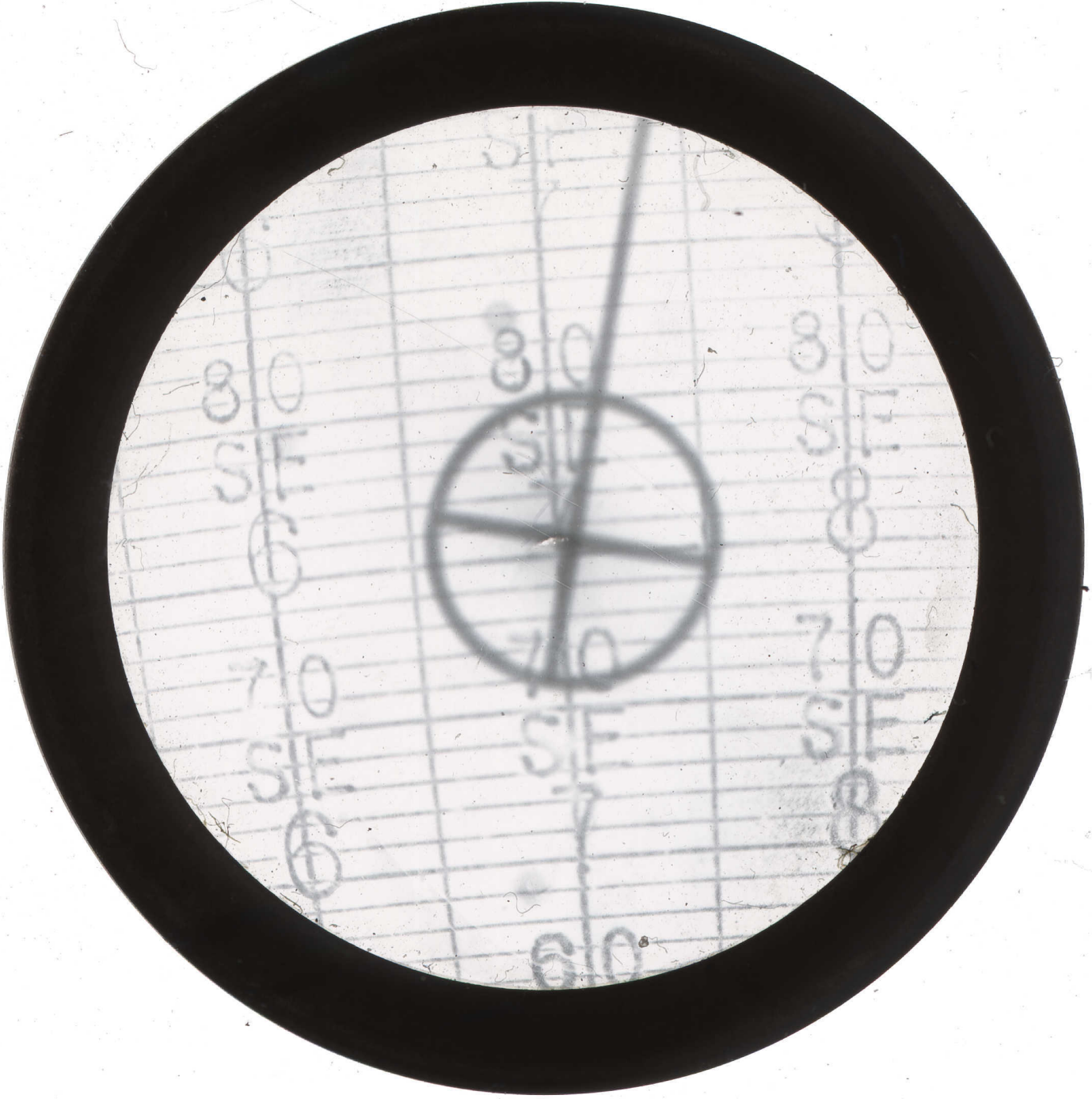
JOB NO. _____

HI-1408


80
SE
70
SE
60

SINGLE SHOT
PHOTO DISC RECORD

COMPANY
WELL NAME P-214-98
LEASE
TAKEN BY Jerome
DEPTH 230'
DATE 3-29-98
DRIFT ANGLE
DIRECTION
TYPE
JOB NO.
HI-1408


80
SE
6
70
SE
6
80
SE
7
70
SE
7
60
80
SE
8
70
SE
8