60000652

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-167-98
AUTHOR	K. Allen; R. Parish; S. King
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, Hecla Mining Co; Rosebud Project Rosebud Mining Co., LLC
COMMODITY If not obvious	gold; silver
NOTES	drill logs; assay; geology; photographs; receipts; total depth 83'; handwritten notes down hole camera images 19p. 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 4/28/2008
Initials Date

DB:
Initials Date

SCANNED:
Initials Date

Revised: 1/22/08

D-167-98

60000652
4010

Hecla MINING COMPANY

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

vein

ROSEBUD PROJECT
DIAMOND DRILL LOG

HOLE NUMBER	D-167-98	LOCATION	EAST ZONE
PAGE 1 OF 2		NORTHING	
DATE	1/29/98	EASTING	
LOGGED BY	R. PARISH	ELEVATION	
SCALE	1"=10'	AZIMUTH	
TOTAL DEPTH	83'	INCLINATION	

REMARKS: STOPE 43. Twisted off at 83'. Left core barrel in hole.

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
TD	Reduced	0-18 Fine grained, Auto Brecciated Dozer. Clast-like, faint pink hematitic stained clasts in lt green/creme colored lava matrix. Bleached, weakly argillized. 8-18' Numerous zones of crackle breccia grading into rotated clast, monolithic tectonic or hydrothermal breccia w/ partially silicified, pyritic RK flour matrix.	10		4' 3" Fault zone - str. shearing @ 45° TCA. 8-18 crackle breccias grading into and out of several tectonic/hydro Bxs.	4' 3" str. argillized Flt zone w/ pyritic shear surfaces. 0-8' Bleached, wk. argill. wk. vns marc ± gray SiO_2 ± white clay. 8-13.9 gray SiO_2 flooded Bx matrix + gray SiO_2 + marc crackle vns.
		18-44 massive, fine grained Dozer Flows. Pale greenish. Local weak red/brown hematitic stain along faint, mottled flow banding and rare auto breccia clasts. Persistent weak to moderate marcasite + gray SiO_2 ± white clay veins, typically at 60-70° To C.A.	20		17' illitic shear surface 55° T.C.A. Rake 15° 18'-38 Dominant Vein Set at 60-70° TCA.	13.9-18 mod. argillization gray, pyritic RK flour Bx matrix. 18-38 moderate density of marcasite + gray SiO_2 + ± white clay veins. Typical vein is 1/8" thick. Larger veins to 1/2" Consist of gray SiO_2 + bladed marcasite walls and white clay centers. Clay is rarely silicified by white SiO_2. Rare bladed marcasite Rosettes floating in clay medial cavity.
		44-68.4 Auto Brecciated Dozer Flows. Pale greenish cream-colored. Angular monolithic Dozer clasts in Dozer Lava matrix. Bleached and argillized.	30		38-39.1 clast sppt'd rotated clast, monolithic Breccia.	38-39.1 Strong crackle Breccia w/ gray SiO_2 ± marc matrix and white clay vug fill. 39.1-43 mod. white clay ± marc. ± gray SiO_2 vns.
			40		48.8' 2" Bx vein - 55° T.C.A.	43-48.8 mod silicification of auto bx matrix - mod. gray SiO_2 + white clay + marcasite vns. 48.8' - 2" gray SiO_2 matrix Bx vn
			50			

ANALYTICAL DATA						
FROM	TO	W	Au	Ag	Au2	Ac
0	5					
5	8					
8	11.3					
11.3	13.9					
13.9	15.1					
15.1	18					
18	23					
23	28					
28	33					
33	38					
38	39.1					
39.1	43					
43	47.2					
47.2	48.8					
48.8	53					

HOLE NUMBER D-167-98 PAGE 2 OF 2

LITH.	OX/RED.	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
DOZER	Reduced	53-68.4 Auto Breccia textures less common. Increasing fine veinlet stockwork or crackle Bx approaching South Ridge Fault. Contact at 68.4'. 68.4-81.1 SOUTH RIDGE FAULT. Angle to core axis is either 50 or 70° TCA. C+C. Broken, but Banding in Silica at ~50° TCA. 68.4-69.8 Matrix supported Tectonic/Hydrothermal Breccia. Lt. to Dk. gray, Dense Silicification. Crude banding/streaking of clasts. Mixed Dozer and Bud Lithologies. Textures Mostly destroyed by Sil'n.	50 60	55 60 70	48.8-68.4 Fairly random veinlet and vein stockwork. Most common orientation at 50-60° TCA. Fine hairlike stockwork of gray SiO_2 veins below 58. 68.4-81.1 SRF 68.4-69.8 Silicified Fault Zone - Silica banding @ ~50° TCA	48.8-58 moderate veining of gray SiO_2 + white clay + marcasite. Most white clay veins contain abdnt Fgr. calcite. 58-68.4 moderate vns of gray SiO_2 + marcasite + white clay. Minor gray SiO_2 Bx matrix. Several clay + marc vns to 2"
S.R.F Zone		69.8-77.5 Sea green, Upper Bud Tuff. Heterolithic matrix to clast supported Bx. Strong hydrothermal and Tectonic overprint. Textures muted by dense Sil'n to 71.5'. Gray veinlet and local patchy silica flooding below 71.5'. 77.5-79.2 White to locally gray matrix supp rounded clast Bx. Dense Silicification. Muted textures. Trace Stibnite on Frax. 79.2-81.1 Tectonized and silicified upper Bud.	70 80	50 60 55	74.9-75.2' Dk. silica Bx vein 70° TCA. 81.5' banding or crude bedding at 55° TCA	68.4-69.8 Dense gray Silicified Fault Zone. 69.8 71.5 Dense silicification, spotty bladed marcasite blebs and vug fill. 71.5-74.9 Patchy silica flooding and Lt. gray silica veining. spotty bladed marc. 74.9-75.2 Dk gray banded silica vn x cutting earlier Lt. gray SiO_2. 75.2-77.5 Patchy to complete silica flooding and gray silica veins, tr. marcasite blebs. 77.5-79.2 Dense white to gray silicification, trace Stibnite on fractures. 79.2-81.1 mostly complete Dense Silica flooding. 81.1-83 patchy silica flooding, minor silica ± marcasite veining.
upper Bud		81.1-83 Green, upper Bud Epiclastic Coarse gr. Sandstone. STUCK Rods @ 83'	EOH 83'			

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2
48.8	53				
53	58				
58	63				
63	68.4				
68.4	69.8				
69.8	71.5				
71.5	74.5				
74.5	74.9				
74.9	75.2				
75.2	77.5				
77.5	79.2				
79.2	81.1				
81.1	83				

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-167-98 DATE 11/29/98 LOGGED BY: R. PARISH PAGE 1 OF 2

DRILL RUN		SOLID CORE RECOVERY (%)	TOTAL CORE RECOVERY (%)	RQD	ROCK STRENGTH		FRACTURE DATA				DENSITY DATA			
FROM	TO				DOWNHOLE DEPTH	POINT LOAD INDEX (psi)	FRACTURE DENSITY-FT.	AVG. ANGLE TO C.A.	ROUGHNESS	INFILL	DOWNHOLE DEPTH	SAMPLE WEIGHT (g)	DISPLACEMENT (cc)	DENSITY (g/cc)
0	5	92	92	38										
5	8	100	100	67										
8	13	98	98	60										
13	18	100	100	78										
18	23	96	96	56										
23	28	98	98	96										
28	33	100	100	81										
33	38	96	96	77										
38	43	104	104	85										
43	48	98	98	56										
48	53	80	86	74										

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # D-167-98 DATE 1/29/98 LOGGED BY: R PARISH PAGE 2 OF 2

DRILL RUN		SOLID CORE RECOVERY (%)	TOTAL CORE RECOVERY (%)	RQD	ROCK STRENGTH		FRACTURE DATA				DENSITY DATA			
FROM	TO				DOWNHOLE DEPTH	POINT LOAD INDEX (psi)	FRACTURE DENSITY/FT.	AVG. ANGLE TO C.A.	ROUGHNESS	INFILL	DOWNHOLE DEPTH	SAMPLE WEIGHT (g)	DISPLACEMENT (cc)	DENSITY (g/cc)
53	58	104	104	67										
58	63	94	94	28										
63	68	96	96	46										
68	73	104	104	28										
73	77.5	100	100	12										
77.5	78	140	140	0										
78	83	100	100	24										

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 0048039-IN
INVOICE DATE: 02/19/98

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-167-98	PRODUCTION	NET 30 - DUE IN U.S. DOLLARS

QUANTITY	DESCRIPTION	PRICE	AMOUNT
27	SAMPLES RECEIVED	.00	.00
27	JAW CRUSHING CHARGE	1.30	35.10
27	COARSE MILLING CHARGE	4.50	121.50
27	SPLITTING CHARGE	2.40	64.80
27	RING MILLING CHARGE	2.00	54.00
27	Au (1 A.T. FIRE ASSAY)	8.00	216.00
13	Au ANALYSES/GRAVIMETRIC	8.75	113.75
27	HYDROCHLORIC/NITRIC DIGESTION	2.00	54.00
27	Ag ANALYSES	1.00	27.00
5	Ag (ore grade) ANALYSES	5.00	25.00

86-5110-477
RDA

NET INVOICE:	711.15
LESS DISCOUNT:	142.23
FREIGHT:	.00
INVOICE TOTAL:	568.92

xAMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP048039

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-167-98 RECEIVED : 3 FEB 1998

No. SAMPLES : 27 REPORTED : 4 FEB 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 SP048039

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD PRODUCTION
REFERENCE : D-167-98

REPORTED : 4 FEB 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-167-98 0-5	0.019			0.07
D-167-98 5-8	0.024			0.88
D-167-98 8.0-11.3	0.017			0.12
D-167-98 11.3-13.9	0.038	0.049		0.09
D-167-98 13.9-15.1	0.009			0.24
D-167-98 15.1-18.0	0.007			0.11
D-167-98 18-23	0.034	0.032		0.12
D-167-98 23-28	0.026			0.09
D-167-98 28-33	0.053		0.058	0.14
D-167-98 33-38	0.016			0.06
D-167-98 38.0-39.1	0.478		0.426	0.80
D-167-98 39.1-43.0	0.057		0.082	0.10
D-167-98 43.0-47.2	0.258		0.286	1.03
D-167-98 47.2-48.8	0.030			0.06
D-167-98 48.8-53.0	0.335		0.389	0.37
D-167-98 53-58	0.258		0.222	0.09
D-167-98 58-63	0.262		0.241	1.34
D-167-98 63.0-68.4	0.808		0.814	0.96
D-167-98 68.4-69.8	0.515		0.475	0.46
D-167-98 69.8-71.5	0.876		0.914	0.58
D-167-98 71.5-74.5	3.493		3.841	6.53
D-167-98 74.5-74.9	0.052		0.042	0.08
D-167-98 74.9-75.2	0.047			1.68
D-167-98 75.2-77.5	0.113		0.135	30.66
D-167-98 77.5-79.2	0.025			26.88

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP048039

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD PRODUCTION
REFERENCE : D-167-98

REPORTED : 4 FEB 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-167-98 79.2-81.1	0.015			16.00
D-167-98 81.1-83.0	0.009			0.53

AMERICAN ASSAY LABORATORIES

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AuGRAV	GRAV	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

SIGNATORY : Susan King M.S.

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REFERENCE : D-167-98

REPORTED : 4 FEB 1998

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D-167-98 0-5	0.019			0.07
D-167-98 5-8	0.024			0.88
D-167-98 8.0-11.3	0.017			0.12
D-167-98 11.3-13.9	0.038	0.049		0.09
D-167-98 13.9-15.1	0.009			0.24
D-167-98 15.1-18.0	0.007			0.11
D-167-98 18-23	0.034	0.032		0.12
D-167-98 23-28	0.026			0.09
D-167-98 28-33	0.053		0.058	0.14
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D-167-98 38.0-39.1	0.478		0.426	0.80
D-167-98 39.1-43.0	0.057		0.082	0.10
D-167-98 43.0-47.2	0.258		0.286	1.03
D-167-98 47.2-48.8	0.030			0.06
D-167-98 48.8-53.0	0.335		0.389	0.37
D-167-98 53-58	0.258		0.222	0.09
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D-167-98 74.9-75.2	0.047			1.68
D-167-98 75.2-77.5	0.113		0.135	30.66
D-167-98 77.5-79.2	0.025			26.88

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT SP048039

American Assay Laboratories

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD PRODUCTION
REFERENCE : D-167-98

REPORTED : 4 FEB 1998

SAMPLES	Au(OZ) FA30 OPT	Au(RZ) FA30 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
D-167-98 79.2-81.1	0.015			16.00
D-167-98 81.1-83.0	0.009			0.53

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP048039

PO BOX 11530
RENO NV.USA
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HECLA MINING COMPANY

COPIES TO : KURT ALLEN

:

:

:

CLIENT REFERENCE No: D-167-98 RECEIVED : 3 FEB 1998

No. SAMPLES : 27 REPORTED : 4 FEB 1998

MAIN SAMPLE TYPE : DRILL CORE

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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.

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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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REFERENCE : D-167-98

REPORTED : 4 FEB 1998

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)	
D-167-98 0-5	0.019			0.07	
D-167-98 5-8	0.024			0.88	
D-167-98 8.0-11.3	0.017			0.12	
D-167-98 11.3-13.9	0.038	0.049		0.09	
D-167-98 13.9-15.1	0.009			0.24	
D-167-98 15.1-18.0	0.007			0.11	
D-167-98 18-23	0.034	0.032		0.12	
D-167-98 23-28	0.026			0.09	
D-167-98 28-33	0.053		0.058	0.14	38-74' =
D-167-98 33-38	0.016			0.06	36.5'
D-167-98 38.0-39.1	0.478		0.426	0.80	
D-167-98 39.1-43.0	0.057		0.082	0.10	@ 0.697 Au
D-167-98 43.0-47.2	0.258		0.286	1.03	
D-167-98 47.2-48.8	0.030			0.06	1.02 Ag
D-167-98 48.8-53.0	0.335		0.389	0.37	
D-167-98 53-58	0.258		0.222	0.09	
D-167-98 58-63	0.262		0.241	1.34	
D-167-98 63.0-68.4	0.808		0.814	0.36	
D-167-98 68.4-69.8	0.515		0.475	0.46	
D-167-98 69.8-71.5	0.876		0.914	0.58	
D-167-98 71.5-74.5	3.493		3.841	6.53	75.2 - 81.1
D-167-98 74.5-74.9	0.052		0.042	0.08	
D-167-98 74.9-75.2	0.047			1.68	= 5.9' @
D-167-98 75.2-77.5	0.113		0.135	30.66	0.056 Au
D-167-98 77.5-79.2	0.025			26.88	24.88 Ag

AMERICAN ASSAY LABORATORIES

PROVISIONAL REPORT SP048039

CLIENT : HECLA MINING COMPANY
PROJECT : ROSEBUD PRODUCTION
REFERENCE : D-167-98

REPORTED : 4 FEB 1998

SAMPLES	Au(OZ)	Au(RZ)	AuGRAV	Ag(OZ)
D-167-98 79.2-81.1	0.015			16.00
D-167-98 81.1-83.0	0.009			0.53

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
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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. - Hecla Operator

Address: P.O. Box 2610

City: Winn. State: NV Zip: 89446

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

Project Name: Rosebud Production Purchase Order Number:

Date Submitted: 2/3/98 Number of Samples: 27

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

D-167-98 SAMPLE IDENTIFICATION		TYPE	ELEMENTS REQUIRED
0-5	53-58		
5-8	58-63		Grade Control
8-11.3	63-66.4	Core	
11.3-13.9	66.4-69.8		Au, Ag
13.9-15.1	69.8-71.5		
15.1-18	71.5-74.5		
18-23	74.5-74.9		
23-28	74.9-75.2		
28-33	75.2-77.5		
33-38	77.5-79.2		
38-39.1	79.2-81.1		
39.1-43	81.1-83		
43-47.2			
47.2-48.8			
48.8-53			

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
S.A.A.

Results to:
Kurt Allen
S.A.A.

Comments:

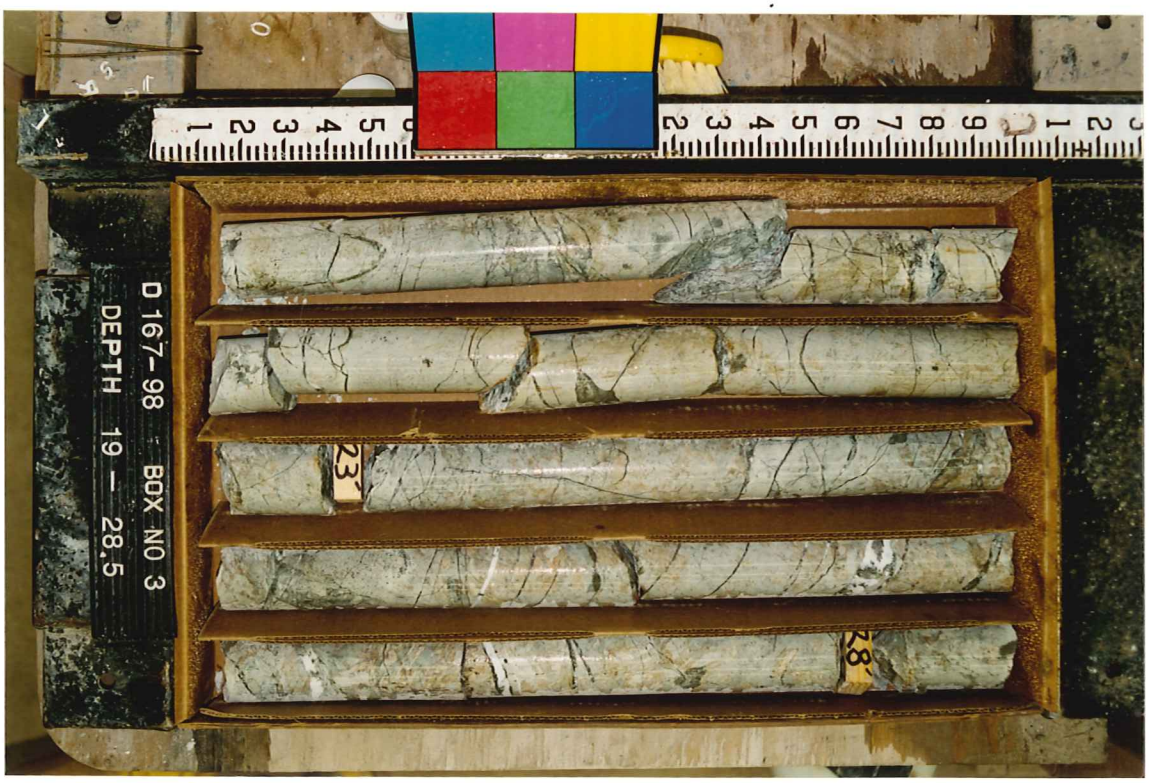
CLIENT FILE COPY

DOWNHOLE SURVEY MAGNETIC DECLINATION: +15.7°

DRILL ~~DOWNHOLE~~ #	FILM FOOTAGE	~~TRUE~~ BEARING	DIP	TRUE BEARING	TRUE DIP
D-167-98	COLLAR	S73.0E	43.5°	N57.3°W	+46.5°
	45'	S71.0E	44.0°	N55.3°W	+46.0°
	75'	S71.5°E	44.0°	N55.8°W	+46.0°

18'
D 167-98 BOX NO 2
DEPTH 9.5 — 19

5'
8'
D 167-98 BOX NO 1
DEPTH 0.0 — 9.5


D 167-98 BOX NO 3
DEPTH 19 — 28.5
23'
28'

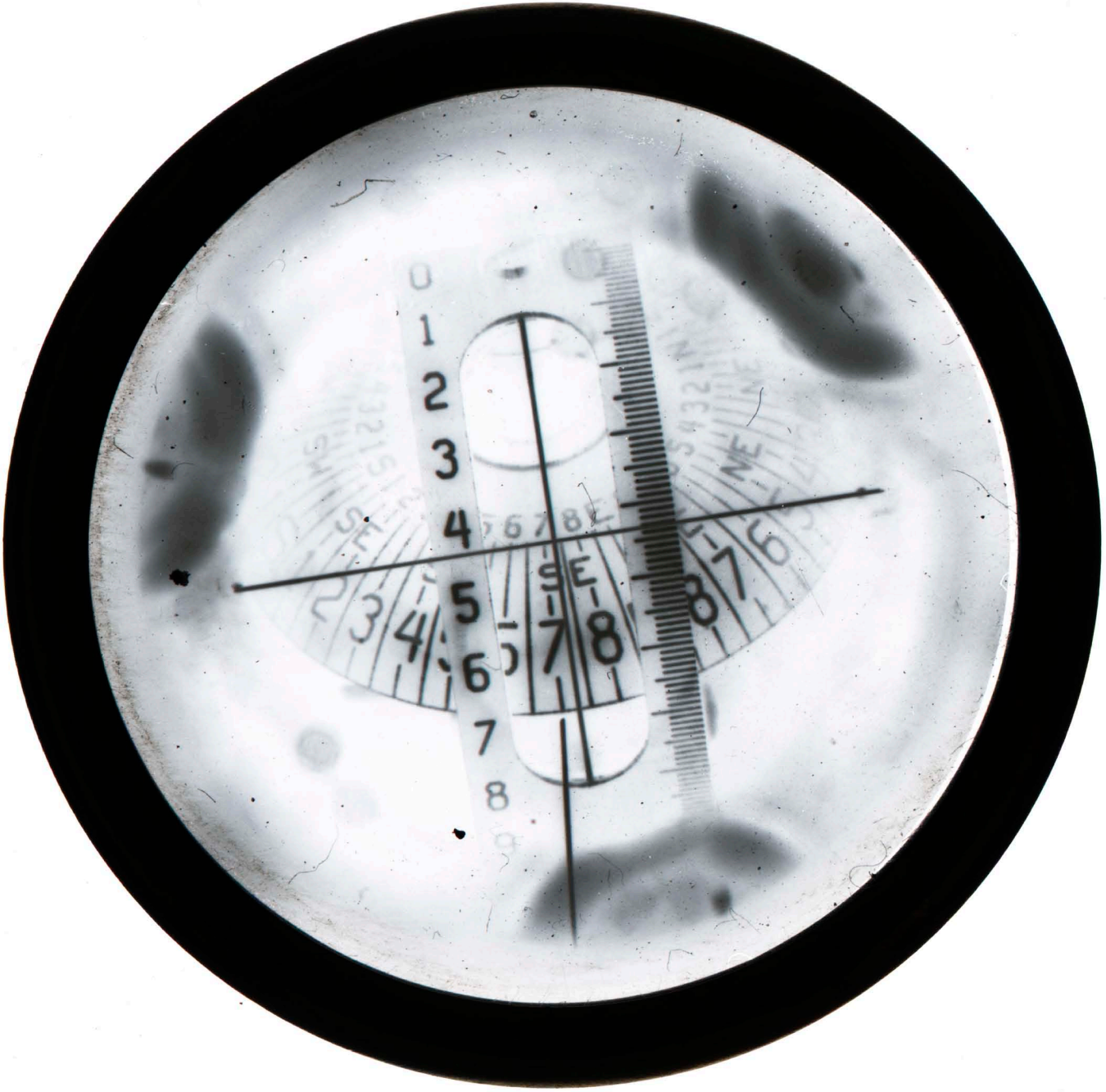
D 167-98 BOX NO 5
DEPTH 38 — 47.5
38
43

D 167-98 BOX NO 4
DEPTH 28.5— 38
33

D 167-98 BOX NO 6
DEPTH 47.5 — 57
48
53

D 167-98 BOX NO 8
DEPTH 66.5 — 75

D 167-98 BOX NO 7
DEPTH 57 — 66.5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