60001501

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. 94-324
AUTHOR	L. Bernard; C. Muschatt; S. Fairclotth
DATE OF DOC(S)	1994
MULTI_DIST Y / (N?) Additional Dist_Nos:	
QUAD_NAME	Sulphur 7.5'
P_M_C_NAME (mine, claim & company names)	Rosebud Mine; Rosebud Project; Hecla Mining Co., East Zone
COMMODITY If not obvious	gold silver
NOTES	Drill log; geology; assay; total depth 787' handwritten notes 17p

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 5/29/08
Initials Date
DB: MCA
Initials Date
SCANNED: NV Blue
Initials Date

Revised: 1/22/08

94-324

EAST ZONE

60001501 4010

60001501

Hecla
MINING COMPANY

ROSEBUD PROJECT
DIAMOND DRILL LOG

HOLE NUMBER	94-324	LOCATION	East Zone	REMARKS	
PAGE 1 OF	10	NORTHING	2203959.0	RC to 435	
DATE	12/13/94	EASTING	482830.6	CORE from 435 to 787	
LOGGED BY	LJB	ELEVATION	5318.1		
SCALE	RC 1"=20' CORE 1"=10'	AZIMUTH	322.0°		
TOTAL DEPTH	787'	INCLINATION	-89.0°		

%REC	RQD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
		0-25 mixed chip size, gravel	20			dk hem FeOx coating
		25-95 50-60% orange/brown clay w/ minor-tr white clay chips and 40-50% brown hem chips coated by clay	40, 60, 80	clay		25-95 str Argillic Mod FeOx coating & clay hem rock
		95-145 H-mod gray clay ≥75% and ≤25% wh chl chips w/few py dissem	100	clay		95-145 str Argillic wk chl

ANALYTICAL DATA						
FROM	TO	W	Au	Ag	Au2	Ag2
0	15	15	<5	<0.5		
15	25	10	<5	0.8		
25	35	10	72	2.7		
35	45	10	~~54~~	~~2.2~~		
45	55	10	58	1.9		
55	65	10	71	1.8	69 Au(R)	
65	75	10	~~19~~	~~0.8~~		
75	85	10	7	0.7		
85	95	10	35	0.7		
95	105	10	106	3.9		

HOLE NUMBER 94-324 PAGE 2 OF 10

REC	RQD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
		145-245 mixed lt green, lt gray chips w/ fine py dissem. fine grain chips w/ clastic textures	120, 140, 160, 180, 200, 220, 240	clay		145-295 wk chl wk-mod Argillic; 165-185 wk sil, mod gtz ± py vn; 185-245 wk py veinlets

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2	Ag2
105	115	10	118	5.5		
115	125	10	133	4.4		
125	135	10	36	3.1		
135	145	10	28	2.3		
145	155	10	<5	0.8		
155	165	10	<5	<0.5	<5	
165	175	10	6	1.3		
175	185	10	124	4.2		
185	195	10	92	4.5		
195	205	10	78	3.5		
205	215	10	112	4.4	138 Au(R)	
215	225	10	65	3.0		
225	235	10	26	2.0		
235	245	10	89	3.4		

HOLE NUMBER 94-324 PAGE 3 OF 10

REC	RQD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
		245-335 lt gray fine grain volcanic clasts w/ slight lam matrix fine py disem	260, 280, 300, 320, 340, 360, 380			245-335 wk Argillic 245-275 mod py vn
		335-415 fine chip size w/ major clays 50% + lt gray Ashy tuff ?				335-415 str Argillic 335-345 str py vn

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2	Ag2
245	255	10	53	2.5		
255	265	10	62	3.4	84 Au(R)	
265	275	10	28	1.9		
275	285	10	6	1.0		
285	295	10	<5	1.7		
295	305	10				
305	315	10	<5	1.1		
315	325	10	74	3.2		
325	335	10	22	0.7		
335	345	10	76	3.4		
345	355	10	<5	1.5	6 Au(R)	
355	365	10	<5	1.0		
365	375	10	<5	0.5		
375	385	10	6	1.7		

HOLE NUMBER 94-324 PAGE 4 OF 10

REC	RQD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
		395-415 SAG but white chips	400			
		415-445 fine med brown hem chips + white-lt gr chips. Ashy - fine volcaniclastic ?	420			415-445 wh argillic hem rock
			440			
			460			
			480			
			500			
		SEE 1" = 10' CORE LOGS	520			

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2	Ag2
385	395	10	64	3.2		
395	405	10	71	3.9		
405	415	10	55	1.4		
415	425	10	32	1.2		
425	435	10	154	5.9		
435	445	10				
445	455	10				
455	465	10				
465	475	10				
475	485	10				
485	495	10				

HOLE NUMBER 94-324 PAGE 5 OF 10 HQ CORE BEGINS @ 435'

CORE STARTED

%REC	RQD		LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
435 100	.87 445	Mod soft	V.f. grain, med green tuff - volcanic bx(wk) clast are soft, chloritized w/ dissem py and white clay alt feldspars. Matrix light gray/green chlorite alt of same material. Wk welding wk bx faint clast outlines	440		435-500 1-3 frac/ft @ 40-50 436 4" green gouge @90	435-443 chloritic + clay alt clast + matrix 440-450 1-2 py vn/ft @ 45 441-454 minor calcite vnlets @ 40 + 40 ⊥ 443-500 chloritic clay clasts wk-mod silicic clasts wk silicic matrix hematitic matrix
			443-445 transition zone				
100	.90 455	Mod hard	445-517 Volcanic bx - heterolitic lt gray + Med green chloritic + clay alt clasts in a brown + gray bleached matrix. Clasts are sub-angular to sub-rounded and are matrix supported ± point contacts Range in size from 1/10" to 8" in diameter Most clast are lt-med green due to clay + chlorite alt. There are often dk gr blades or blebs which may originally (+ fine py dissem) have been Micas or ferromags. Cores can be some what hem or bleached. Smaller gray-brown clasts (1/4"-4") are aph w/ no textures, but sometimes have reaction rims with matrix. Other lt green-white clasts have welded vesicular textures. Matrix is aphanitic w/ f. dissem py coloration is due to hem. FeOx. gray-brown clast have rare white clay alt. feldspars - more silicic as is matrix wk magnetic py after mag?	450		454 minor gouge	452 1/8" qtz vn @ 50 w/ py + marcasite 453-500 1-4 sulf-qtz vnlets @ 20-40 undulating ± qtz dilational FeOx rims 459 barite (small crystals) and 1/10" gouge @ 50
100	.96 465			460			
100	.94 475			470			
100	.92 485			480			
100	84 495			490			489 undulating 1/4" qtz vn + drussy cavity @ 5 to -5
				500			

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2	Ag2
435	440	5	<0.001	0.04		
440	445	5	0.003	0.07		
445	450	5	0.002	0.03		
450	455	5	<0.001	<0.02		
455	460	5	0.002	0.09		
460	465	5	0.007	0.07		
465	470	5	0.001	0.04		
470	475	5	0.001	0.05		
475	480	5	0.001	0.04		
480	485	5	0.007	0.08		
485	490	5	0.005	0.21		
490	495	5	0.004	0.08		
495	500	5	0.005	0.08		

HOLE NUMBER 94-324 PAGE 6 OF 10

%REC	RQD	LITHOLOGY		FT	STRUCTURE	ALTERATION AND MINERALIZATION
100	.98 505	Mod hard	SEE Above Minor increase in welded + brown clasts		500-531 1-2 frac/ft @ 50-60	500-517 3-4 veinlets/ft @60 sulf ± qtz
100	.98 515			510		
			undulating contact @ 40			
100	.94 525	Mod hard to hard	517-538 gray brown aphanitic tuff with sericite gosts of feldspar (5%) and faint Fe-stained volcanic bx textures, V. fine py disseminated	520		517-(570) illitic-smectite clay sericite, mod sil 517-538 mod crackle bx w/ qtz-sulf cements or veins brassy to golden pyrite within silica coated frac. Marcasite w/ white illitic smectite clays on fractures
107%	.93 532	Soft		530	531.5-533 Fault broken rock and 6" of ground rock + py gouge. @50?	
94%	.56 537	Mod hard to hard	brecciated contact @60 depositional?			533-538 mainly rubble bx w/ qtz-sulf cement, and barite lined vugs cavities
80%	.50 545		538-602 Pinkish white aphanitic tuff v. fine sericitic feldspars(?) and v. f. disseminated py (after mag?) weakly welded in places	540	541 barite gouge? 531-570 1 frac/ft @ 50-60	marcasite replaced by py or alt. to dk color
98	.94 555		550 wk welding @ 60	550		538-570 Mod crackle bx qtz-sulf cement 541 2" barite gouge 5" rubble bx 548 clay, barite, marc cryst framboidal py 557 sas less marc.
95	.87 565		Bud?	560		
				570		567 ladder qtz-sulf vns @ @30 ⊥ 25 mainly py white clay

FROM	TO	W	Au	Ag	Au2	Ag2
500	505	5	0.003	0.08		
505	510	5	0.003	0.06		
510	515	5	0.001	0.05		
515	517	2	0.002	0.08		
517	520	3	0.029	0.89		
520	525	5	0.006	0.16		
525	530	5	0.018	0.06		
530	535	5	0.012	0.15		
535	540	5	0.006	0.07		
540	545	5	0.005	0.19		
545	550	5	0.017	0.12		
550	555	5	0.003	0.07		
555	560	5	0.004	0.10		
560	565	5	0.004	0.14		
565	570	5	0.005	0.23		

Samples for Met 538-538.5, 551-551.5 → 559.5-560, 565.5-566

HOLE NUMBER 94-324 PAGE 7 OF 10

%REC	RQD		LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
100	.90 575	mod hard	Pinkish lt gray mod welded tuff 10% dissem py, 1-5% clay + sericite alt feldspars	570		570 - 585 1 frac/ft @ 25 + 80	
100	96 485			580			573-604 Mixed crackle + rubble bx gray + white qtz + py cements very vugy w/ barite crystals atop qtz
		soft				585- lt. gray sheared 58p clay alt rock + gouge	[573-585 frameboxed py 586-606 barite cryst]
100	.76 595			590		586-602 2-3 frac/ft @ 60, 85 ⊥ 20 589- 4" sy gouge	575-583 high angle qtz-py + qtz vn or crackle contact 593-593.5 2" white qtz vn ± marc, py, sulfs? @ 5
100	.89 605	mod soft	602 - 615 dk green alloglomerate /large blocks and grain supported pebbles in a ashy matrix. Water layn debress flow chlorite Alt + mod-str sil	600		602-613 1-2 frac/ft @ 60 + 90 SRF 615-623	601 significant amount of rubby silver, large blebs in sil white clays 602-615 minor, sometimes FeOx veinlets.
100	.88 615			610		613 - 624 1-5 frac/ft @ 60, 80, 5 ⊥ 50	615-620.7 Vn contact @ 80-90
93	.33 620.5	hard	lt gray/blue vein material - qtz ending in bk cemented bx 2" ? 615-620.7	620		620.7 wk shear	blue/gray qtz vn w/ dk inlets and major fracture coating of stibnite minor white clays
100	.47 624	mod hard	620.7 - 623 green vn bx with rubble bx base 623 - 638 silica flooded alloglomerate med green, locally stratified @ 70 chlorite Alt + mod-str sil			624- 638 1-2 frac/ft @ 40 ⊥ 70	620.7-623 green qtz bx blocks of marcasite, gray qtz vn, minor stibnite at top, clays on frac 623-638 silica flooded matrix w/ blocky marc. + py. sy qtz wk crackle bx, clays on frac
100	.94 634		lt gray vbx w/ welded matrix	630		* 632' - 660' 28' @ 0.606, 0.87	638- high angle crackle inlets w/ marc.

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2	Ag2
570	575	5	0.005	0.09		
575	580	5	0.006	0.13		
580	585	5	0.007	0.08		
585	589	4	0.010	0.13		
589	592	3	0.004	0.09		
592	597	5	0.015	3.37	13' @ 0.028, 13.34	
597	602	5	0.048	25.60		
602	605	3	0.015	9.51		
605	610	5	0.004	0.67		
610	615	5	0.003	0.43		
615	620	5	0.010	3.96		
620	621	1	0.023	4.25		
621	624	3	0.127	0.20	(grav) 0.134	
624	628	4	0.019	0.05		
628	632	4	0.023	0.20	E	
632	636	4	0.504	0.76	(grav) 0.533	.519
636	641	5	1.313	3.69	(grav) 1.438	1.376

debris

lain

* samples for MET 578.5-579, 589-589.5, 626.5-627, 633.5-634

HOLE NUMBER 94-324 PAGE 8 OF 10

%REC	RQD	LITHOLOGY		FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
94	.85 644	mod hard	638 - 701 fine lt gray tuff with faint Volcanic brecciation. Clasts and matrix can be moderately welded fine py dissem., some lappili, glass shards.	640		638 - 663 1-2 frac/ft undulating brittle fractures @ 80, 40, 30	638 - Silicic crackle bx w/ qtz, marcasite-py cements white silicic clays ± qtz-sulf veins high-angle cracks fine qtz-sulf veinlets & coarse 1/10 - 1/4"
98	.98 654			650			
100	.89 664			660		664 gray clay gouge 663 - 676 2 frac/ft @ 60, 5-10, 70	sil clays w/ marcasite (bladed) + py
100	.72 674			670			
100	.73 684			680		676 - 703 1-2 frac/ft @ 40	
100	.82 694			690			
100	.98 704	mod soft	SAB mod clay alt 701 - 718	700		702 v. wk clay alt 703 - 704 3 frac/ft @ 30 704 - 712 1 frac/ft @ 60	
8.1 1.6 9.7	6.5 .8 7.3			710			

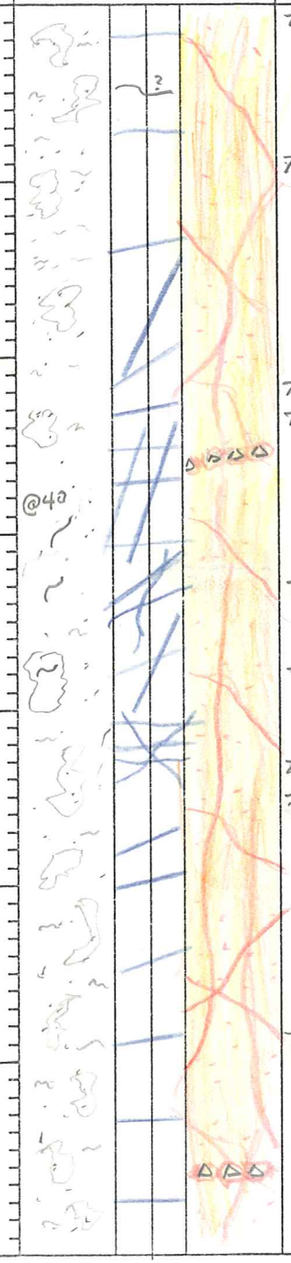
ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2	Ag2
641	645	4	1.039	0.29	0.941 (grav)	.990
645	650	5	0.636	0.18	0.582 (grav)	.609
650	655	5	0.098	0.09		
655	660	5	0.102	0.09		
660	665	5	0.029	0.32		
665	670	5	0.020	0.53		
670	675	5	0.014	0.08		
675	680	5	0.010	0.06		
680	685	5	0.019	0.10		
685	690	5	0.003	0.05		
690	695	5	0.009	0.06		
695	700	5	0.011	0.07		
700	705	5	0.009	0.07		
705	710	5	0.016	0.09		

HOLE NUMBER 94-324 PAGE 9 OF 10

%REC	RQD	LITHOLOGY	FT	STRUCTURE	ALTERATION AND MINERALIZATION
97	.73 714	Mod soft — 701-718 Mod-str clay alt Tuff bx as noted above. Some clasts are heavily pyritized	710	700-718 undulating sub-horiz frac (3 frac/ft)	
100	.79 724	soft; Mod soft; Mod hard — 718- lt gray/brown tuff breccia mixture of altered glassy shards and welded clasts in a glassy matrix. Some rounded lappili clasts are replaced by clay + feldspar wk argillic, str sil. Matrix is more silicic than clast and is wk oxidized to brown/Tan	720	718-732 2 frac/ft @ 80, 60, 30	714.5-718.5 str clay alt Poss shearing; 718-787 (EOH) wk crackle brecciation w/ high angle component of Marcasite, clay, pyrite veinlets 1/20-1/10"
87	.79 732		730	732 4/frac/ft; 732-743 1 frac/ft @ 80-90 + 20	soft white clay w/ marc crystals or sil clay w/ pyrite are commonly found on fractures @ 30
100	.73 735				
100	.80 745	↓ EOH	740	743-748.1 6 frac/ft @ 5, 30, 70	736- micro rubble bx trending @ 50 qtz-sulf cements
100	.29 748.1			748-756 1 frac/ft @ 25, 70	
100	1.0 755		750	755 5 frac/1 ft; 756-769 1 frac/ft @ 70 + 85	
100	.95 765	Mod hard / Mod soft — wk Argillic, mod sil	760		
97	.76 775		770	769-787 2 frac/ft @ 80; 774 @ 20; 782 @ 0-30	777.5 4" rubble bx subhorizontal qtz-sulf cements
			780		

GRAPHIC LOG



ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2	Ag2
710	715	5'	0.007	0.15		
715	720	5'	0.067	0.06		
720	725	5'	0.015	0.06		
725	730	5'	0.013	0.05		
730	735	5'	0.022	0.06		
735	740	5'	0.011	0.07		
740	745	5'	0.033	0.07	0.016	Au3 0.045
745	750	5'	0.016	0.07		
750	755	5'	0.009	0.08		
755	760	5'	0.009	0.08		
760	765	5'	0.034	0.07		
765	770	5'	0.016	0.06		
770	775	5'	0.004	0.05		
775	780	5'	0.051	0.11	(grav) 0.057	

HOLE NUMBER 94-324 PAGE 10 OF 10

%REC	RQD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
100	.85 784	SAS				SAS
100	.93 787					
	EOH		TD			

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2	Ag2
780'	785	5'	0.051	0.11	0.057	grav
785'	787	2'	0.066	0.09	0.071	

IS REPORT

American Assay Laboratories

P.O. BOX 71060
RENO, NV,,U.S.A.,
Ph.1-702-356-0606, Fax.1-702-356-1413
Telex:

Posted

Posted

HECLA MINING CO.

COPIES TO : CHARLIE MUERHOFF

:

:

:

CLIENT REFERENCE No: 94-324 RECEIVED : 29 AUG 1994

LABORATORY JOB No. : SP030660 REPORTED : 13 SEP 1994

SAMPLE TYPE : No. SAMPLES : 75

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au(OZ)	FA60	15%	OPT	0.001
Au(RZ)	FA60	15%	OPT	0.001
Au RZ2	FA60	15%	OPT	0.001
AuGRAV	GRAV	15%	OPT	0.001
Ag(OZ)	D210	10%	OPT	0.02

Au Avg.

0.131

0.019

0.023

0.319

1.376

25'@ 0.016, 0.81

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT

American Assay Laboratories

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : 94-324
JOB NUMBER : SP030660
REPORTED : 13 SEP 1994

Posted

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	Au RZ2 FA60 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
94-324 435-440	<0.001				0.04
94-324 440-445	0.003				0.07
94-324 445-450	0.002				0.03
94-324 450-455	<0.001				<0.02
94-324 455-460	0.002				0.09
94-324 460-465	0.007				0.07
94-324 465-470	0.001				0.04
94-324 470-475	0.001				0.05
94-324 475-480	0.001				0.04
94-324 480-485	0.007				0.08
94-324 485-490	0.005				0.21
94-324 490-495	0.004				0.08
94-324 495-500	0.005				0.08
94-324 500-505	0.003				0.08
94-324 505-510	0.003				0.06
94-324 510-515	0.001				0.05
94-324 515-517	0.002				0.08
94-324 517-520	0.029				0.89
94-324 520-525	0.006				0.16
94-324 525-530	0.018				0.06
94-324 530-535	0.012				0.15
94-324 535-540	0.006				0.07
94-324 540-545	0.005				0.19
94-324 545-550	0.017				0.12
94-324 550-555	0.003				0.07

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT

American Assay Laboratories

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : 94-324
JOB NUMBER : SP030660
REPORTED : 13 SEP 1994

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	Au RZ2 FA60 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
94-324 555-560	0.004				0.10
94-324 560-565	0.004				0.14
94-324 565-570	0.005				0.23
94-324 570-575	0.005				0.09
94-324 575-580	0.006				0.13
94-324 580-585	0.007				0.08
94-324 585-589	0.010				0.13
94-324 589-592	0.004				0.09
94-324 592-597	0.015				3.37
94-324 597-602	0.048				25.60
94-324 602-605	0.015				9.51
94-324 605-610	0.004				0.67
94-324 610-615	0.003				0.43
94-324 615-620	0.010				3.96
94-324 620-621	0.023				4.25
94-324 621-624	0.127			0.134	0.20
94-324 624-628	0.019				0.05
94-324 628-632	0.023				0.20
94-324 632-636	0.504			0.533	0.76
94-324 636-641	1.313			1.438	3.69
94-324 641-645	1.039			0.941	0.29
94-324 645-650	0.636			0.582	0.18
94-324 650-655	0.098				0.09
94-324 655-660	0.102				0.09
94-324 660-665	0.029				0.32

AMERICAN ASSAY LABORATORIES
ANALYSIS REPORT

American Assay Laboratories

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : 94-324
JOB NUMBER : SP030660
REPORTED : 13 SEP 1994

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	Au RZ2 FA60 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
94-324 665-670	0.020				0.53
94-324 670-675	0.014				0.08
94-324 675-680	0.010				0.06
94-324 680-685	0.019				0.10
94-324 685-690	0.003				0.05
94-324 690-695	0.009				0.06
94-324 695-700	0.011				0.07
94-324 700-705	0.009				0.07
94-324 705-710	0.016				0.09
94-324 710-715	0.007				0.15
94-324 715-720	0.067				0.06
94-324 720-725	0.015				0.06
94-324 725-730	0.013				0.05
94-324 730-735	0.022				0.06
94-324 735-740	0.011				0.07
94-324 740-745	0.033	0.016	0.045		0.07
94-324 745-750	0.007				0.07
94-324 750-755	0.016				0.07
94-324 755-760	0.009				0.08
94-324 760-765	0.009				0.08
94-324 765-770	0.034				0.07
94-324 770-775	0.016				0.06
94-324 775-780	0.004				0.05
94-324 780-785	0.051			0.057	0.11
94-324 785-787	0.066			0.071	0.09

ANALYSIS REPORT

American Assay Laboratories

P.O. BOX 71060
RENO, NV,,U.S.A.,
Ph.1-702-356-0606, Fax.1-702-356-1413
Telex:

HECLA MINING CO.

COPIES TO : CHARLIE MUERHOFF

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CLIENT REFERENCE No: 94-324 RECEIVED : 8/08/94

LABORATORY JOB No. : SP030354 REPORTED : 21/08/94

SAMPLE TYPE : No. SAMPLES : 42

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au	FA30	15%	ppb	5
Au(R)	FA30	15%	ppb	5
Ag	D210	10%	ppm	0.5

1003 1004 .13

SIGNATORY : Sue Faircloth M.S.

AMERICAN ASSAY LABORATORIES
ANALYSIS REPORT

American Assay Laboratories

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : 94-324
JOB NUMBER : SP030354
REPORTED : 21/08/94

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Ag D210 ppm
94-324 00-15	<5		<0.5
94-324 15-25	<5		0.8
94-324 25-35	72		2.7
94-324 35-45	54		2.2
94-324 45-55	58		1.9
94-324 55-65	71	69	1.8
94-324 65-75	19		0.8
94-324 75-85	7		0.7
94-324 85-95	35		0.7
94-324 95-105	106		3.9
94-324 105-115	118		5.5
94-324 115-125	133		4.4
94-324 125-135	36		3.1
94-324 135-145	28		2.3
94-324 145-155	<5		0.8
94-324 155-165	<5	<5	<0.5
94-324 165-175	6		1.3
94-324 175-185	124		4.2
94-324 185-195	92		4.5
94-324 195-205	78		3.5
94-324 205-215	112	138	4.4
94-324 215-225	65		3.0
94-324 225-235	26		2.0
94-324 235-245	89		3.4
94-324 245-255	53		2.5

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT

American Assay Laboratories

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : 94-324
JOB NUMBER : SP030354
REPORTED : 21/08/94

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	Ag D210 ppm
94-324 255-265	62	84	3.4
94-324 265-275	28		1.9
94-324 275-285	6		1.0
94-324 285-295	<5		1.7
94-324 305-315	<5		1.1
94-324 315-325	74		3.2
94-324 325-335	22		0.7
94-324 335-345	76		3.4
94-324 345-355	<5	6	1.5
94-324 355-365	<5		1.0
94-324 365-375	<5		0.5
94-324 375-385	6		1.7
94-324 385-395	64		3.2
94-324 395-405	71		3.9
94-324 405-415	55		1.4
94-324 415-425	32		1.2
94-324 425-435	154		5.9

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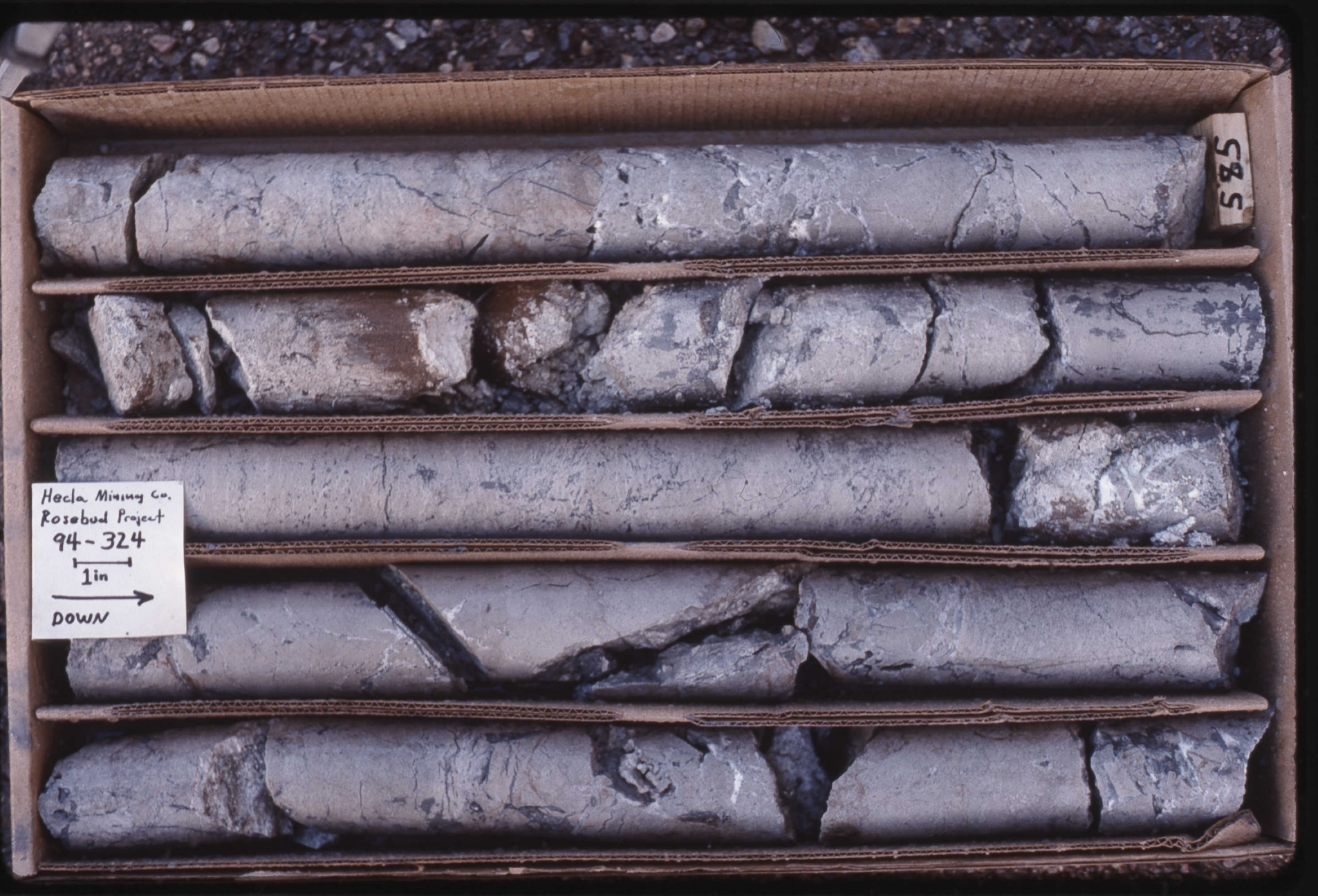
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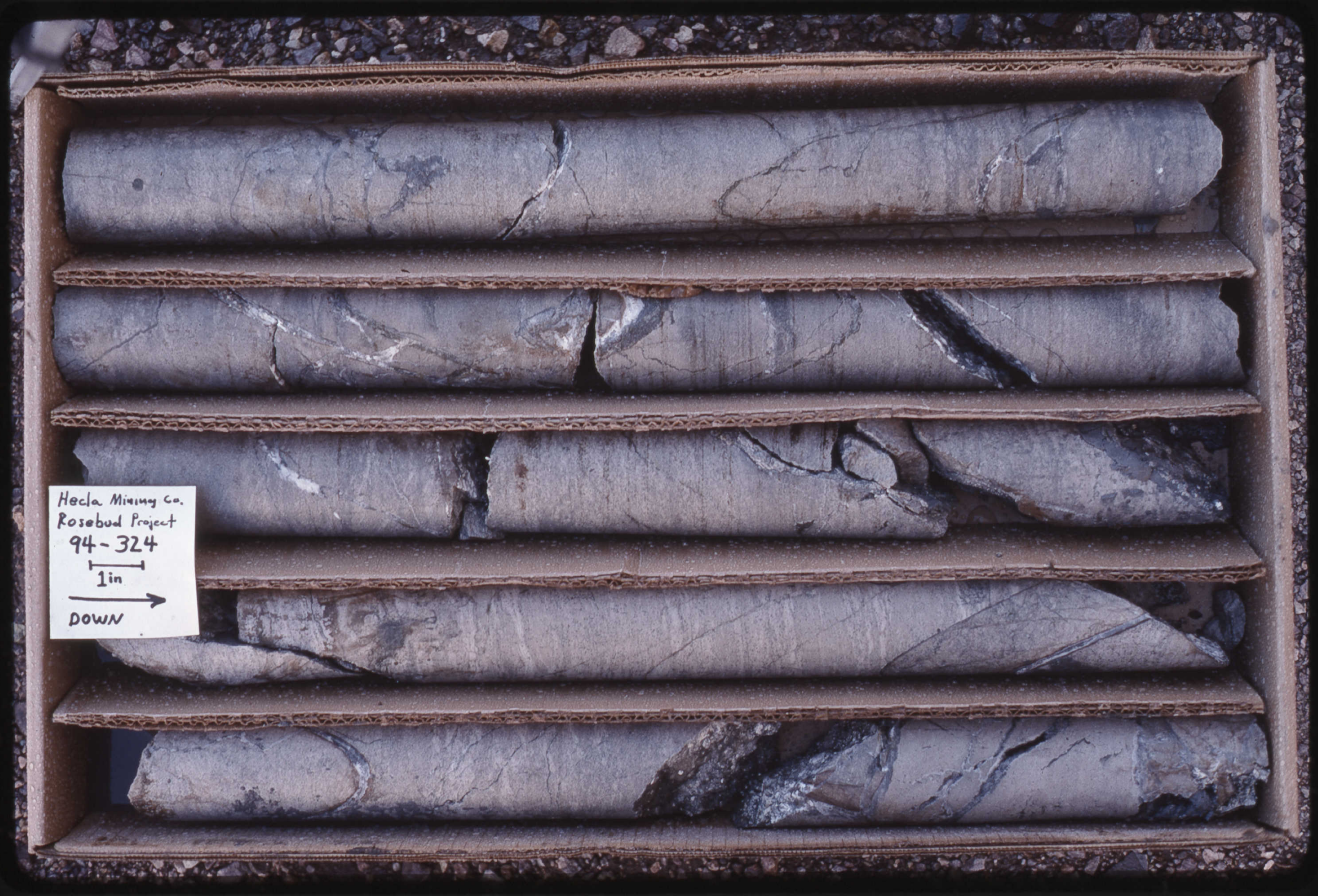
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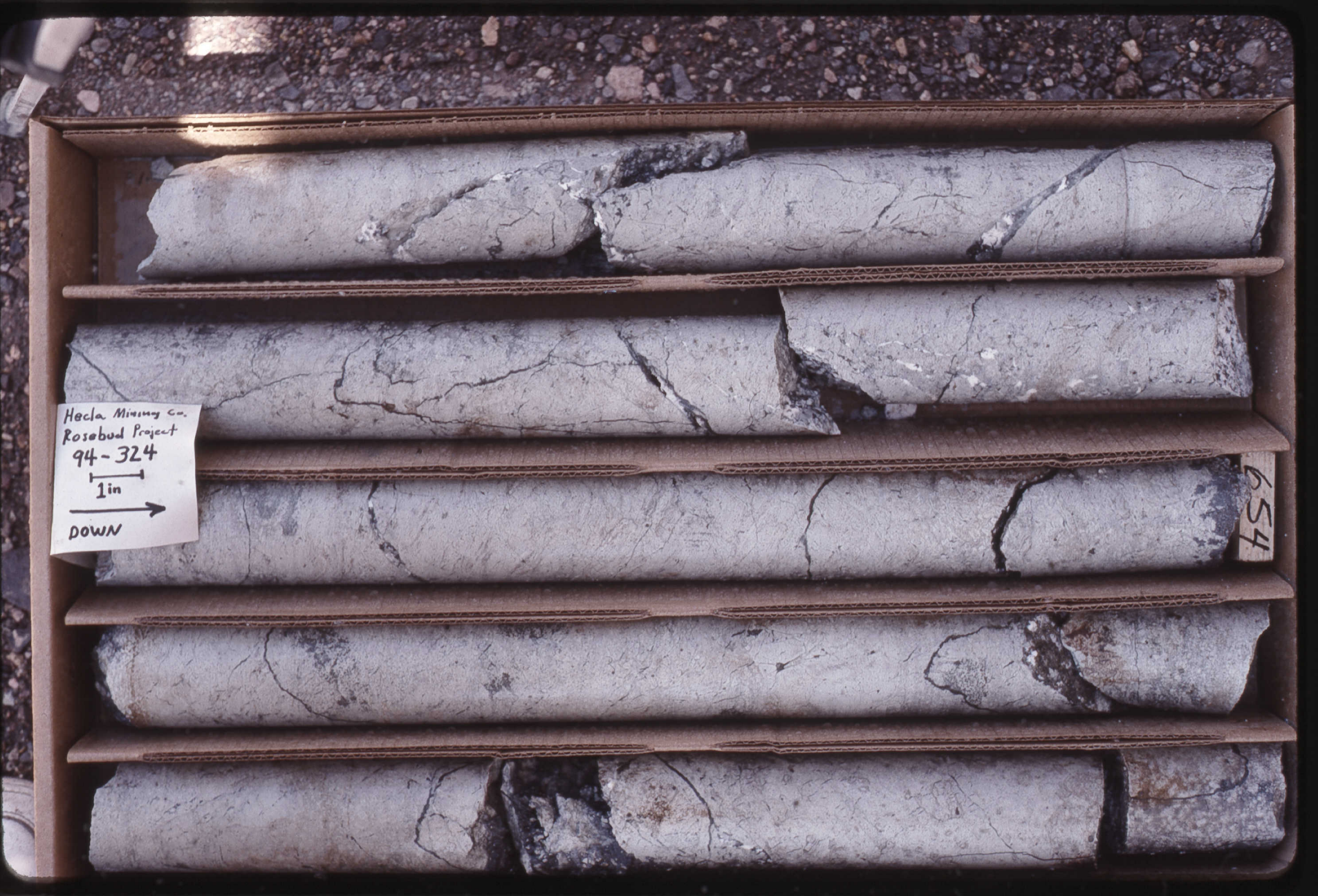
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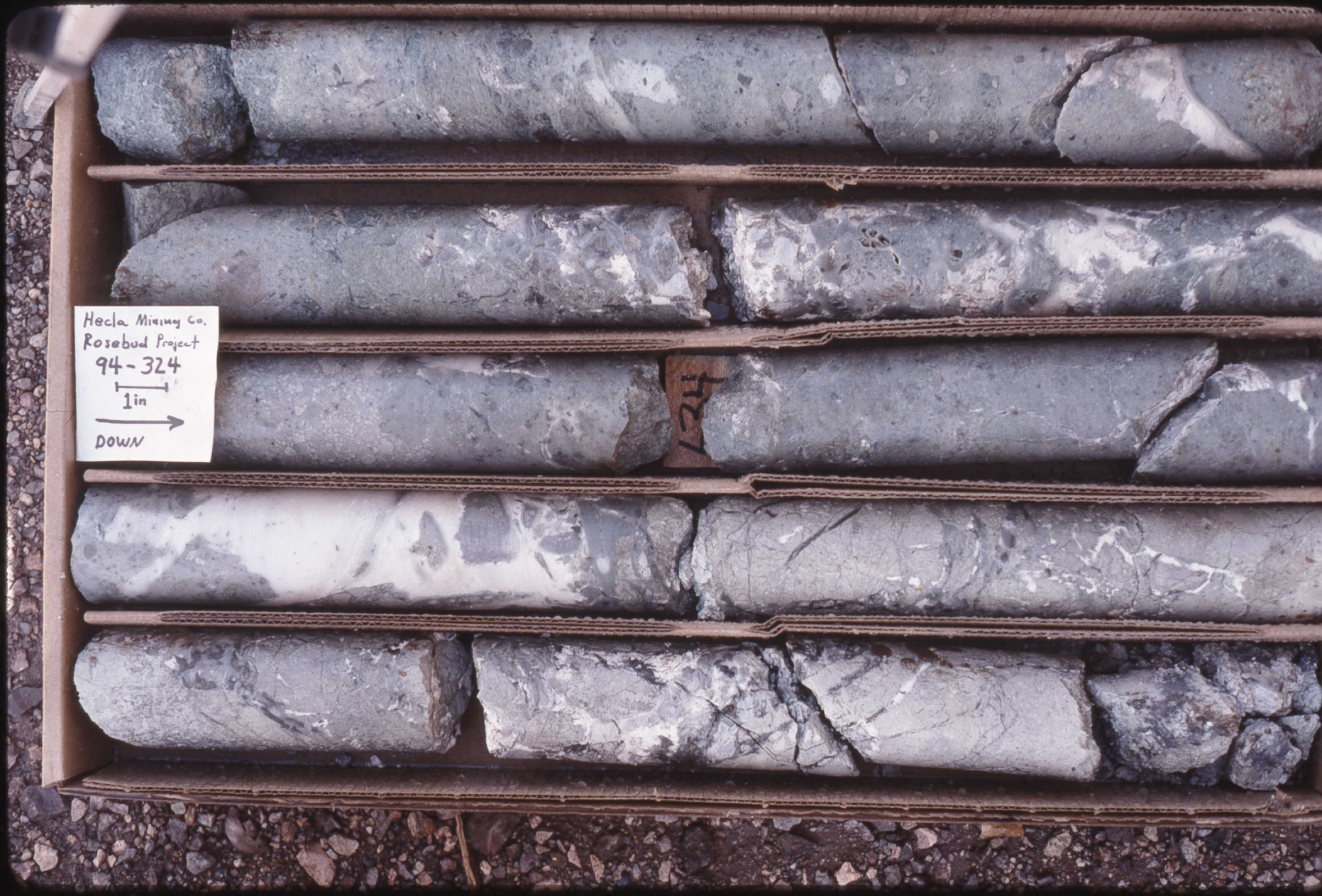
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