60001512

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. 94-335
AUTHOR	L. Bernard; C. Moorhoft; S. Fairclath
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. North Zone
COMMODITY If not obvious	gold silver
NOTES	Drill log; geology; assay; total depth 1050' handwritten notes; receipt 53p.

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: mah
Initials Date

SCANNED: NV Blue
Initials Date

Revised: 1/22/08

94-335 North zone

6000 1512 4010 ✓

Hecla MINING COMPANY

ROSEBUD PROJECT
DIAMOND DRILL LOG

6000 1512

HOLE NUMBER 94-335	LOCATION North Zone	REMARKS	
PAGE 1 OF 13	NORTHING 2204340.8	RC to 445 rapid Ly	
DATE 12/12	EASTING 482631.1	CORE from ? 439 to 1050	
LOGGED BY L.J.B.	ELEVATION 5316.9		
SCALE RC 1"=20' CORE 1"=10'	AZIMUTH 60.5°		
TOTAL DEPTH 1050	INCLINATION -90.0°		

%REC	RQD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
		0-166 dk brown hemititic fine grain volcanic bx. Clasts w/ minor clays	20, 40, 60, 80, 100			0-166 hem alt w/ 5-10% clays wk argillic

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2	Ag2
0	15	15	<.5			
15	25	10	<.5			
25	35	10	.6		<.5	
35	45	10	<.5			
45	55	10	<.5			
55	65	10	<.5			
65	75	10	<.5			
75	85	10	<.5			
85	95	10	<.5			
95	105	10	<.5			

HOLE NUMBER 94-335 PAGE 2 OF 13

REC	RQD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
		Volcanic clastics 195-305 dk gray/green clasts in dk brown matrix hints of foliation or bedding	120 140 160 180 200 220 240		Fault zone ?	105-115 75% clay 195- hem rk w/ V. wk chl alt

ANALYTICAL DATA						
FROM	TO	W	Au	Ag	Au2	Ag2
105	115	10	<5			
115	125	10	5		<5	
125	135	10	<5			
135	145	10	<5			
145	155	10	<5			
155	165	10	8			
165	175	10	<5			
175	185	10	<5			
185	195	10	<5			
195	205	10	<5			
205	215	10	7			
215	225	10	<5			
225	235	10	<5			
235	245	10	<5		<5	

HOLE NUMBER 94-335 PAGE 3 OF 13

REC	RQD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
		305-345 Ashy somewhat rounded volcanic-clastic chips mixed dk brown/gy chips	260, 280, 300, 320, 340, 360, 380			hem rk 305-345 wk argillic? hem rk 375-355 wk FeOx
		345-395 dk brown + dk gray hem volcanic clastic				

ANALYTICAL DATA						
FROM	TO	W	Au	Ag	Au2	Ag2
245	255	10	<5			
255	265	10	<5			
265	275	10	<5			
275	285	10	<5			
285	295	10	<5			
295	305	10	<5			
305	315	10	<5			
315	325	10	<5			
325	335	10	<5			
335	345	10	<5			
345	355	10	<5			
355	365	10	<5			
365	375	10	<5			
375	385	10	<5			

HOLE NUMBER 94-335 PAGE 4 OF 13

REC	RCD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
		CT "Bed"? 395-415 H green matrix w/ white fine grain clastic components "Bed" ✓ 415-435 Mixed dk green + lt green volcaniclastics, wk bedded? ↓ SEE 1"=10' CORE LOGS	400 420 440 460 480 500 520			395-415 wk chl / wk argillic wk gtz vn 415-435 mod chl / wk argillic wk dk gtz vn ± py vn str FeOx zone

ANALYTICAL DATA						
FROM	TO	W	Au	Ag	Au2	Ag2
385	395	10	<5			
395	405	10	67			
405	415	10	52			
415	425	10	378			
425	435	10	262		271	
435	445	10	8			
445	455	10	<5			
455	465	10	/			
465	475	10	/			
475	485	10	/			
485	495	10	/			

HOLE NUMBER 94-335 (CORE) PAGE 5 OF 13

REC	RQD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2	Ag2
							GEOCHEM SAMPLES						
		439-474 lt green/gray ashy volcaniclastic Tuff 1/20 to 1/5 subangular to sub-rounded, eliptical clasts with point contacts, fine wk chl ashy matrix. homolithic clasts. Poss wk orientation @60	440		439-464 .2 frac/ft @60	439-474 wk chl	445 439	464	15	<5			
			450				464	474	10	<5			
			460		464-474 .6 frac/ft @40								
		FUCK 474'	470				474	484	10	<5			
		474-509 heterolithic clast supported Volcanicbreccia small clasts 1/20 - 1/5", large clasts 1/4 → 1" → 8" clast sub-angular to sub-rounded. Mod chl green ashy matrix, numerous clast types green chl, pink argillic-sil w/ chl fold, pink w/ py diss, chl wk welded, white argillic (smaller) pink w/ white argillic feldspars, etc. (496-500 Ashy matrix with welded foliation @70)	480		474-484 .8 frac/ft @40,30	474 2" calcite vn @50 (at contact) 474-521 mod chl AH rare calcite vn fine py dissem rare qtz ± py on frac Minor clay films on frac							
			490		484-494 .5 frac/ft @75		484	494	10	60			
			500		494-504 .7 frac/ft @75,40		494	504	10	80		87	

REC	RQD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
						SEE ABOVE
		509-521 Ashy matrix supported volcaniclastics w/ basal zone of local crest with clast supports. mod-str cataclastic foliation @ 70,50 sub-angular to sub-rounded clast 1/8 - 1" heterolithic pink & green wh- mod chl matrix	510		504-514 1 frac/ft @ 75,60 507.5 wh shearing @ 70	
		521-528 Mod-str sil dence textured volcaniclastic? sub-rounded to sub-rounded clasts 1/10 - 3" chl followed by sil matrix - clast supported Maybe a clastic lava?? v. fine grain matrix heterolithic clasts green + pink, both with alt feldspar clasts	520		514-524 .8 frac/ft @ 60,30	521-596 mod-str sil wh Minor drussy qtz coating on frac., minor 1/20" qtz-py vulets at 25°
		528-559 SAS, but with a lt. brown/tan matrix, matrix to point supported.	530		524-534 .5 frac/ft @ 30	524 1/4 qtz-py vn @ 35
			540		534-544 .4 frac/ft @ 40	534 vug w/ barite crystl.
			550		544-554 1.7 frac/ft @ 40	
					554-564 1.1 frac/ft @ 50	
		559-596 very similar to above but w/ lt gray matrix. str sil dence textured volcaniclastics? sub-rounded to sub angular clasts 1/8 - 4", matrix supported heterolithic clasts	560		564-574 .4 frac/ft @ 30,20	569-574 1/4 qtz-marcasite vn @ 5°
			570			

ANALYTICAL DATA						
FROM	TO	W	Au	Ag	Au2	Ag2
504	514	10	<5			
514	521	7	<5			
521	534	13	40			
534	544	10	37			
544	454	10	14			
554	564	10	38			
564	574	10	60			

REC	RQD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	ANALYTICAL DATA FROM	TO	W	Au	Ag	Au2	Ag2
		SEE ABOVE sil heterolithic clasts: lt gray w/ Arg feld; white wk welded w/ chl shards or feld; pink clasts w/ py dissem; fine ashy chl-sil clasts; chl clasts w/ argill feldspars poss matrix Assimulation of clasts ??	580		574-584 .8 frac/ft @ 40, 50, 70 584-594 1.3 frac/ft @ 35 ⊥ 45 594-604 .1 frac/ft @ 35	SEE ABOVE	574	584	10	30			
							584	594	10	17			
			590				594	604	10	35			
		596-624 clast supported volcaniclastic with brown hemrlitic matrix, 1/10 to 2" angular to sub-angular heterolithic clasts. Most clasts are white argillic alted (kaolinite) w/ different lithologic texts; dull green chloritic welded clasts; pink & gray sil-Argillic clasts, white welded sil-Arg clasts	600		596-624 hem matrix discontinuous py vnlets @ 15, 35° ≤ 1/20"								
					604-614 .3 frac/ft @ 40		604	614	10	20			
			610				614	624	10	34			
					614-624 .1 frac/ft @ 40								
			620				624	638.5	14.5	6			
		624-638.5 SAB but with green wk-mod chl matrix			624-634 .3 frac/ft @ 50	624-638.5 SAB, but mod chl matrix							
			630				638.5	644	5.5	5			
					634-644 1.5 frac/ft @ 70-75 638.5 3" wk shearing @ 75								
		638.5-645 Ashy volcaniclastic. green ashy matrix foliated @ 60. clasts sorted in places bedding @ 60 1/20-1/5" Angular → subrounded clasts, matrix + clast sup	640			638.5-645 mod chl, calcite vn @ 60, 25 1/4"							

REC	ROD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
		~645-656 Ash-fine grain volcaniclastic Tuff 1/10-1/4 matrix supported clasts sub-Angular elongated homolithic	650		644-654 .1 frac @ 50	~645- wk chl matrix 672.7 w/ calcite veining mod calcareous
		656-672.7 Ashy clast supported volcaniclastics 1/8-1/2 sub-angular to sub-rounded heterolitic clasts, chl matrix, wk chl + argill clasts, some wk welded some matrix supported clasts, contact @ 80	660		654-664 no frac	
		672.7-674 Med grain tuff with fine v. wk welded clasts 1/20-1/10" angular-sub-angular	670		664-674 .5 frac/ft @ 40,50	
		674-681 sandy clastic, wk bedding and grading v. wk hem coarse grain	680		674-684 .9 frac/ft @ 60,30	672.5-681 minor py veinlets @ 45 2 veinlets/ft wk calcareous rock
		681-693.5 clast supported volcaniclastics heterolithic 1/8-1/4 rounded to sub-angular clasts wk chl-hem matrix - Med grain sandy. blk, pink-tan clasts with reaction rims extending into matrix aple green fine grain clasts contact @ 65	690		684-694 .4 frac/ft @ 70	681-693.5 discontinuous multidirectional py veinlets ∠ 1/20" wk calcareous
Fuck 693.5'		693.5-776 pink/gray fine-medgrain Tuff aph w/ ≤5% k-spar cryst ~~Fractic~~ Tuff. Feldspars partially alt ~~to clay or chlorite~~, cleavage ⊥ to elongated cryst pyritized Ferromgs feldspars replaced by calcite	700		694-704 .6 frac/ft @ 25,40	693-733 wk calcareous rock w/ calcite replaced feldspars blotches of py some poss replacing ferromgs
		Bud porph. alk rhy flow	710		704-714 .4 frac/ft @ 15,0	

ANALYTICAL DATA						
FROM	TO	W	Au	Ag	Au2	Ag2
644	654	10	<5		<5	
654	664	10	<5			
664	674 ↑ geochem samples	10	5218 .145	1.00	.136 (2)	
custom prep samples ↓						
674	679	5	.086	.08	.074 (2)	
679	684	5	.084	.08	.092 (2)	
684	689	5	.005	.04		
689	694	5	<.001	<.02		
694	699	5	<.001	<.02		
699	704	5	<.001	<.02		
704	709	5	<.001	<.02		

HOLE NUMBER 94-335 PAGE 9 OF 13

5

REC	RQD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
		SEE Above Trachyandesite ? ~~Trachitic~~ Tuff ≤5% k-spar phenos.			714-724 1frac/ft @65,5	
			720		724-734 .3 frac/ft @ 30,75	
			730		734-744 .8 frac/ft @ 5,60	733-774 SAb w/ vertical to high angle chlorite-py vnlets <1/20 - 1/5" lesser vnlets @ 80
			740		744-754 .9 frac/ft @ 5,40	Rare calcite vnlets, calcite replaced feldspars
			750		754-764 1.0 frac/ft @ 5,35,80	
			760		764-774 1.5 frac/ft @ 5,70	
		Angular clasts at base	770			
		undulating contact			774-784 1frac/ft @ 40,40, 80	
		776-780 soft green ashy unit with minor clasts foliation ⊥ to shearing @ 60			777-781 wk shearing @60	776-780 mod chl
			780			

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2	Ag2
709	714	5	<.001	<.02	<.001	
714	719	5	<.001	<.02		
719	724	5	<.001	<.02		
724	729	5	<.001	<.02		
729	734	5	<.001	<.02		
734	739	5	<.001	<.02		
739	744	5	.001	.03		
744	749	5	.010	.07	.009	
749	754	5	<.001	.04		
754	759	5	<.001	.02		
759	764	5	.004	.06		
764	769	5	.006	.07		
769	774	5	.002	.02		
774	776	2	<.001	.02		
776	781	5	.002	.04		

REC	RQD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	FROM	TO	W	Au	Ag	Au2	Ag2
		780 - 786.5 lt brown w/green streaked ash w/ 5% chl lithic frags & Argillic pomice shards foliated @ 70-85			784-794 .9 frac/ft @ 65	780-791.5 wk chl smell bleached ad py	781	786.5	5.5	.001	.06		
		786.5-791.5 SAS w/ mod chl matrix, coarse grained contact @ 80 with Above foliation @ 75					786.5	791.5	5	.008	.60		
		791.5 - 792.5 strong silica flooded chl med grain Tuff	790		794-804 1.3 frac/ft @ 65	791.5-792.5 str silica flooding	791.5	796	4.5	.012	.47		
	BUP MARKER BED?	792.5 802 Med grain chloritic tuff w/ sil overprint no clear clastic component, locally v. wk foliation				792.5 - 805.2 Mod-str sil sil clay unlets + Marc wk gtz vn ± marc @ 60 bleached ad py dissem	796	801	5	.013	.41		
		802 - 805.2 SAS w/ str silica flooding	800		804-814 1.2 frac/ft @ 50 undulating healed south ridge fault		801	805.5	4	.011	.38		
		805.2 - 814 V. str sil white, dk gray, bk sulfidic gtz vein material contain sil rock frags bx sulfide vn, dense silicic RK gtz unlets @ 70 contact sharp @ 75				805.5-814 white, med gy, dk gy gtz with dissem sulfides (fine) brecciated vein material X-cutting gtz unlets	805	810	5	.004 .001	3.17 .57		
SRF (EZ) DT		814-819 V. str crackle bx w/ v. str gtz cements & flooding, host rock fine-med grain Tuff - silicic	810		814-823.5 1.0 frac/ft @ 50 undulating small cryst minor barite 812.5 fine Ruby silver		810	814	4				
		819 - 833 Silicic-Argillic fine-med grain Tuff w/ str crackle bx + silicic cements, possible clastic components masked brecciation	820		623.5 6" cobble Zone 823.5-833.5 1.2 frac/ft @ 65	814-819 V. str crackle bx w/ gtz ± marc cements and silica flooding, barite	814	819	5	.003	.30		
		833 - 834.5 med gray + clk gtz bx vn contact sharp @ 80	830		835-841 1.2 frac/ft 65, 30	819-833 crackle bx w/ silica cements, blocky pyrite unlets	819	824	5	.002	.03		
		834.5 - 848.5 Mod Argillic wk sil/ med grain clastic tuff w/ crackle overprint lt gray/w/ greenish tints	840		841-854 .8 frac/ft @ 45-50	833-834.5 pore barite gtz bx vn with fine dissem sulf.	824	829	5	.018	.53		
		848.5 - 878.5 silica fland RK as above contact @ 60	850			834.5-948 crackle bx w/ silica cements frac w/ white clay + marcasite gtz - marcasite unlets (vert.)	829	833	4	.020	.07		
							833	834.5	1.5	<.001	.04		
							834.5	839	4.5	.009	.22		
							839	844	5	.015	.07		
							844	848	4	.038	.16		

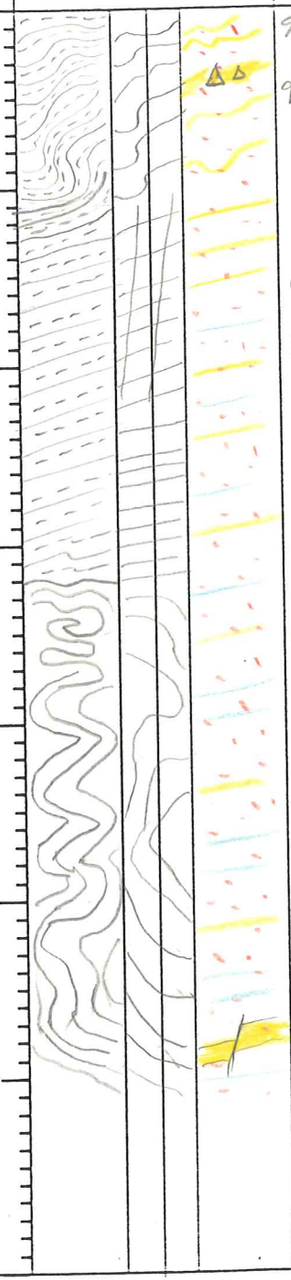
HOLE NUMBER 94-335 PAGE 11 OF 13

REC	ROD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION
		848.5-878.5 silicic fine grained ashy Tuff w/ goat clasts obscured by silification. Qtz ± MARCASITE veins/ veinlets overprint by sil. Vugy fractures with drossy quartz coatings and barite crystals (small-med size 1/8").	860		854-864 .3 frac/ft @ 30	848.5-875.5 SEE Lithology
		869- stony fine ash			864-874 .6 frac/ft @ 65 55; 0,70	869, 874 mustard green coating on drossy qtz & barite crust fine sericite ??
		875.5-878.5 SAS w/ stronger clastic textures less silicic	870		874-884 .6 frac/ft @ 85,40	875.5-878.5 sil rk, w/ qtz-chy-MARC veins 1/8" (874-876 Vugy by zone w/ qtz-MARC barite cements)
TCS		878.5 - 900 unclear what this material is? first approximation it may be an air fall tuff that is possibly re-worked by water. It is composed of interbeds of ashy material (soft to sil & chloritic first 3ft), concentrations or blebs of concentrated white crystals, mudy-ashs, and mudy crystal tuffs (or shards) (fine < 1/20" crysts?) — rounded ? 2nd approx may be a altered mudstone (ALT by chl, silt clays, rare rock clasts-pebble size gradational contact frac fold. cryst to fine mudstones	880		878.5 poss 2" shear contact South ridge fault. ??? (Via model)	878.5- chl → sil clay-qtz-MARC vn
					884-894 .6 frac @ 85,40	882-900 sil rk w/ discontinuous qtz-MARCASITE vn ± qtz 1/10-1/5" @ 40, 20 assoc. white clay films
					887 1" soft sheared rk	
			890		894-904 .3 frac/ft @ 85,75	
		900-928.5 Interbeds of mudstone-siltstone (dk br pyritic) 6" to 2' gritty sandstone beds with white feldspar? grains, and rare shale clasts; and minor 6" bands of carbonaceous shales with possible organic material (vitrinoid-cell-like). dk carbonaceous grains from below — normal carbonaceous			904-914 2.1' frac/ft @ 85,15	900-907 bx carbon rk w/ grain sil py replacement vn, qtz-py±MARC bx cements, minor clay films
			910		809, 810.5, 811-812 broken rock	907-928.5 carbon rk w/ wk-mod py-MARC ± qtz vnlets w/ clay films 1/20-1/8" @ undulating @ 0, @ 40
					914-924 3.2 frac/ft @ 80-85, 20 (55)	
			920			

ANALYTICAL DATA						
FROM	TO	W	Au	Ag	Au2	Ag2
848	853	5	.003	.04		
853	858	5	.015	.13		
858	863	5	.002	.13		
863	869	6 (5)	.008	.08		
869	874.5	5.5	.010	.04		
874.5	876	1.5	.133	.16	.166 (2)	.150
876	878.5	2.5	.075	.14	.077 (2)	.076
878.5	884	4.5	.076	2.36	.065 (2)	.071
884	889	5	.009	.18	874.5-884	
889	894	5	.012	.21	9.5' @	
894	900	6	.011	.11	.077	1.18
900	905	5	.019	.23		
905	909	4	.015	.28		
909	914	5	.005	.15		
914	919	5	.034	.15		

HOLE NUMBER 94-335 PAGE 12 OF 13

REC	RQD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE	ALTERATION AND MINERALIZATION	FROM	TO	W	Au	Ag	Au2	Au ~~Ag2~~
							919	924	5	.044	.13		
					924-934 3.2± frac/ft @ 85 15		924	929	5	.010	.06		
		928.5-936 Interbedded wk laminated + cross bedded siltstones and gritty sandstone bedds. brown to tan w/ soft sed faulting	930			928.5-951 hematitic sltsn minor py vnlets 1/10-1/4" @ 0,30, white clay films	929	934	5	<.001	<.02		
					934-944 1.5 frac/ft @ 75 ± 60, 15		934	939	5	.001	.03		
		936-951 Med brown siltstones with fluted bedding and soft sed faulting					939	944	5	.002	.03		
			940				944	949	5	.006	.04		
					944-954 2.2 frac/ft @ 60-65, 10								
		contact @ 75				951 4" bk carbon rk + qtz	949	951.3	2.3	.016	.09	.028	.028 (2)
						951.3-952.8 1/10-1/5" qtz-py-mar vns @ 0, 25-35	951.3	952.8	1.5	.018	.14		
		951-4" carbonaceous shale	950				952.8	959	6.2	.003	.55		
SFR(SZ) JTRa		951.3-952.8 fine sandstone or ashfall			954-964 1.0 frac/ft @ 70								
		952.8-982 Black dense mudstone-shale appears silisic (hard) numerous of qtz blebs + vn on frac. minor calcite veins 961 bedding @ 50				952.8-961 bk carbon rk w/ disrubted blocks of white qtz vnlets or replacements sub-P to bedding @ 50 fine silica + vugy zones with fine py high angle vnlets @ 0±30	959	964	5	.007	6.00		
		- minor platty frac -	960		964-974 1.0 frac/ft @ 30/15		964	969	5	.003	.28		
		967 bedding @ 70				955 2-3" vein or pod of sil clay/qtz @ 15 w/ x cutting qtz-sulf vn 1/5" @ 20	969	974	5	.004	.53		
		976 bedding @ 60	970		974-984 1.7 frac/ft @ 80,50		974	979	5	.003	.30		
						961-990 wk carbon rk w/ fine py dissem, wh qtz, sil clay, + CA vnlets along bedding + sub vertical	979	984	5	.005	.43		
		980-1001 strong folding isoclinal, chevron folds etc mostly bk mudstone-shale, some siltsn shale	980		984-994 1 frac/ft @ 40-60 undulating w/bedding	978.5 1" sil clay vn @ 70	984	989	5	.002	.26		
		folded qtz vn fine py dissem minor calcite ass w/ vn.				-vugy- 973 sil clay vnlets qtz vn bx @ 0-40							
			990			980 2" qtz vn @ 90 = bedding							

REC	RQD	LITHOLOGY	FT	GRAPHIC LOG	STRUCTURE ⟷	ALTERATION AND MINERALIZATION
		1001 - 1023 SAb w/ less folding some platy jointing ⊥ to bedding @ 75 frac every ½ - 6", rarely 1ft bk carbonaceous mudstone - shale + bands of med gray siltstone - shale (50:50) graphite on bedding planes	1000		990 - 1001 bk carbon mk, sil qtz vn along bedding, mod py dissem minor clay films 994 6" qtz bx cement → sil white clay + ca some marc blades at contact 1005 fract @ 40 ⊥ bedding with frosty qtz + py 1001 - 1050 EOH grafitic fracture ± py Lesser qtz vn, greater calcite veinlets ⊥ to bedding + ⊥ to bedding packets fine py dissem + replacement of fine beds (rare) fine white clay films 1009 calcopy on grafitic bedding plane	994 - 1004 2.5 frac/ft undulating @ 65 - 75 1004 - 1014 4.1 frac/ft @ 65 ⊥ 35, 15 1014 - 1024 3.7+ frac/ft 75 - 85 1024 - 1034 3.2 frac/ft undulating along folded bedding 50 - 80 1034 - 1044 2.8 frac/ft undulating 10 - 50 1044 - 1050 2.6 frac/ft undulating
		1023 - 1050 EOH strongly folded bk mudstone + medgy siltstone, clasts of limy siltstone grafite on bedding planes	1010 1020 1030 1040 1050 EOH		7042 clast of qtz vn 7046 Faulted 2" qtz vn white - no sulf some assoc calcite.	

ANALYTICAL DATA

FROM	TO	W	Au	Ag	Au2	Ag2
989	994	5	.005	1.12		
994	999	5	.003	.17		
999	1004	5	.004	.14		
1004	1009	5	.002	.14		
1009	1014	5	.001	.06		
1014	1019	5	.006	.16		
1019	1024	5	.002	.07		
1024	1029	5	.002	.13		
1029	1034	5	.002	.12		
1034	1039	5	.001	.16		
1039	1044	5	.001	.18		
1044	1050	6	.004	.38	.004	

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # 94-335 DATE: 10-8-94 LOGGED BY: RK PAGE 1 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)
439	444	100	100	.88	441	RZ	.2	60	R	nil	441	537	237	2.27
444	454	100	100	.93	449	RZ	.2	60	R	nil	449	487.3	220	2.22
454	464	100	100	.99	459	RZ	.1	60	R	nil	459	532.5	240	2.22
464	474	94	100	.83	469	RZ	.6	40	R	chl films	469	708	320	2.21
474	484	92	98	70	479	RZ	.8	40, 30	R	SAB	479	280.7	120	2.33
484	494	94	96	.77	489	RZ	.5	75	R	qtz coating/ chl films	489	621	258	2.41
494	504	92	98	.80	499	RZ	.7	75, 40	R	chl films clay film	499	439.7	182	2.42
504	514	91	99	.82	509	RZ	1.0	75, 60	R	chl films	509	487	205	2.38
514	524	93	96	.72	519	RZ	.8	60 Solution 30	R	nil / clay film ± qtz-py coat	519	474	200	2.37
524	534	91	95	.71	529	R3	.5	30	R	nil/ qtz-py-clay	529	448.5	188	2.39
534	544	97	98	.87	539	R3	.4	40	R	qtz-py coating/ & vnlets	539	350	145	2.41

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # 94-335 DATE: 10-8-94 LOGGED BY: RK PAGE 2 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)
544	554	91	96	.62	549	RZ	1.7	40	R	nil/py coatings	549	463.5	195	2.38
554	564	99	99	.77	559	RZ	1.1	50	R	clay films	559	326.3	140	2.33
564	574	92	97	.81	569	RZ	.4	30, 20	R	nil	569	418	180	2.32
574	584	91	98	.61	579	RZ	.8	40 50 70	S	nil	579	320.5	142	2.26
584	594	85	95	.52	589	RZ	1.3	35 145	R-S	nil	589	436.5	187	2.33
594	604	93	97	.82	599	RZ	.1	35	S	nil	599	417.5	182	2.29
604	614	86	97	.72	609	RZ	.3	40	R	clay film py cont.	609	478	200	2.39
614	624	98	98	.89	619	RZ	.1	40	R	nil	619	393.7	165	2.38
624	634	100	100	1.0	629	RZ	.3	50	R	clay films diseem py	629	360.5	160	2.3
634	644	97	100	.92	639	RZ	1.5	90, 75	R	chl films	639	318.3	140	2.3
644	654	.9 100	.9 100	.9 1.0		RZ	.1	50	R	minor py chl film	649	470.5	200	2.4

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # 94-335 DATE: 10/13/94 LOGGED BY: LJB 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)
2	654	664	99	99	.97		R2	0				658	544.7	235	2.3
3	664	674	100	100	.93		R2	.5	40, 50	R	clay films minor PY	668	809.9	340	2.4
4	674	684	102	102	.90		R3	.9	60, 30	R	SAS	679	326.1	135	2.4
5	684	694	99	99	.97		R2	.4	20	R	clay film	688	575.2	220	2.6 PY
6	694	704	100	100	.91		R3	.6	25, 40	R	clay films	699	606.3	250	2.4
7	704	714	100	100	.87		R3	.4	15, 0	R	wil	709	665.2	260	2.6
8	714	724	100	100	.81		R3	1.0	65, 5 5	R	clay films	719	657.4	280	2.3
9	724	734	100	100	1.0		R3	.3	30, 75	R-S	clay films	729	742.8	310	2.4
10	734	744	96	99	.70		R3	.8	5, 60	R-S	clay film	739	471.8	195	2.4
11	744	754	100	100	.92		R3	.9	5, 40	R	clay films	749.5	590.6	240	2.5
12	754	764	101	101	.74		R3	1.0	0-5, 35 80	R	glz PY clay film	759	525.7	220	2.4

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # 94-335 DATE: 10/13/94 LOGGED BY: LTB PAGE 4 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)
1	764	774	94	94	.64		R3	1.5	70, 5	S	nil/chl-py	769	670.1	280	2.4
2	774	784	76	102	.75		R2	1.0	40⊥40 80	R	chl films	778	620.5	250	2.5
3	784	794	98	102	.94		R3	.9	65	R	chl Rk	789	415.6	160	2.6
4	794	804	99	101	.79		R3	1.3	65	R	clay/ bx	799	421.8	155	2.7
5	804	814	85	85	.69		R5	1.2	50 undulatn	R-S	sil Rk	810	416.5	160	VEIN 2.6
6	814	823.5	91	95	.66		R3	1.0	50 undulating	R	clay film, sulf coat	820	309	125	2.5
7	823.5	833.5	102	106	.80		R4	1.2	65	R	sab	829	502	190	2.6
8	833.5	841	79	84	.52		R3	1.2	65, 70	R	clay sulf, BA < 1/10-1/4	838	435.9	190	2.3
9	841	854 B	52 101	80+ 101	80 .99		R3	.8	45-50	R	clay(sil)+ sulf vn < 1/10"-4	849	502.9	190	2.6
	854	858	107	107	1.07		R3	.3	30	R	sil rk w/BA-pfz	851	548.8	210	2.6
	858	864	100	100	.88										
	864	869	68	68	.48	SEE NEXT RUN	\	\	\	\	\	\	\	\	\

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # 94-335 DATE: 10/16 LOGGED BY: LJB PAGE 5 OF 6

	DRILL RUN FROM	DRILL RUN TO	SOLD 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)	
1	869	874	108	108	1.06		R3	864-869 .6	65, 55, 0 30	VR	sil Rh w/qtzbx	820.5	823.0	300	2.7	
2	874	984	97	99	.77		R4	.6	85	R	qtz coat white clay filling	878	668.0	255	2.6	
3	884	994	99	100	.76		R3	.6	85 40	R	clay film / qtz-py	890	764.1	300	2.5	
4	894	904	102	102	.89		R3	.3	85; 75	R	PY/carbon	898	625.2	250	2.5	
5	904	914	80	98	.39		R2	2.1+ str Frac	85, 15 sh' ss	S	clay films, py	909	772.4	310	2.5	
6	914	924	93	100	.48		R2	2.0+	85, 15	R	PY, carbon	919	658.7	260	2.5	
7	924	934	73	98	.59		R2	3.2+	80-85 20 (SS)	R	sab	928	792.4	330	2.4	
8	934	944	100	100	.75		R2	1.5	75 ⊥ 60 15	R	sab	939	653.0	270	2.4	
9	944	954	93	97	.57		R2	2.2	60-65 10	R	PY-clay films	949	551.6	230	2.4	
10	954	964	100	100	.88		R3	1.0	70	S	carbon shales	959.5	620.6	240	2.6	2.59
11	964	974	99	99	.78		R3	1.0	65 30, 15	S	Cabon, calcite RARE	869	564.2	220	2.6	2.56

HECLA MINING COMPANY – ROSEBUD PROJECT
GEOTECHNICAL DRILL LOG

HOLE # 94-335 DATE: 10/16/94 LOGGED BY: LJB 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)	
1	974	984	94	94	.90		R4	1.7	80,50	S	nil	790.5	581.4	220	2.6	2.64
	984	990	100	100	.88		R2	↘	\	\	\	\	\	\	\	
2	990	994	99	99	.72		R3	1.0	40-60 undulating folding	R	calcite/py	990	658	260	2.5	2.53
3	994	1004	92	92	.60		R1	2.5	60-75 undulating	S	py-carbon shale calcite	998	447.2	170	2.6	2.63
4	1004	1014	97	97	.47		R3	4.1	65⊥35 15	S	carbon shale, clay films	109	709.5	260	2.7	2.73
5	1014	1024	98	102	.36		R1	3.7+	75-85	S	carbon, wk clay films minor ca	1018	662.1	255	2.6	2.60
6	1024	1034	98	99	.49		R1	3.2	80, 50 folding bedding plain	S	SAS	1029	541.1	210	2.6	2.58
7	1034	1044	96	96	.52		R3	2.8	50, 10 bedding plane fract, folding	S	SAS	1038.5	632.0	220	2.9	2.87
8	1044	1050	100	100	.69		R3	2.6	undulating ↓	S	SAS	1048	635.4	230	2.8	2.76
		EOH														

PPM

N 2,204,340.8
E 482,631.1

94-335

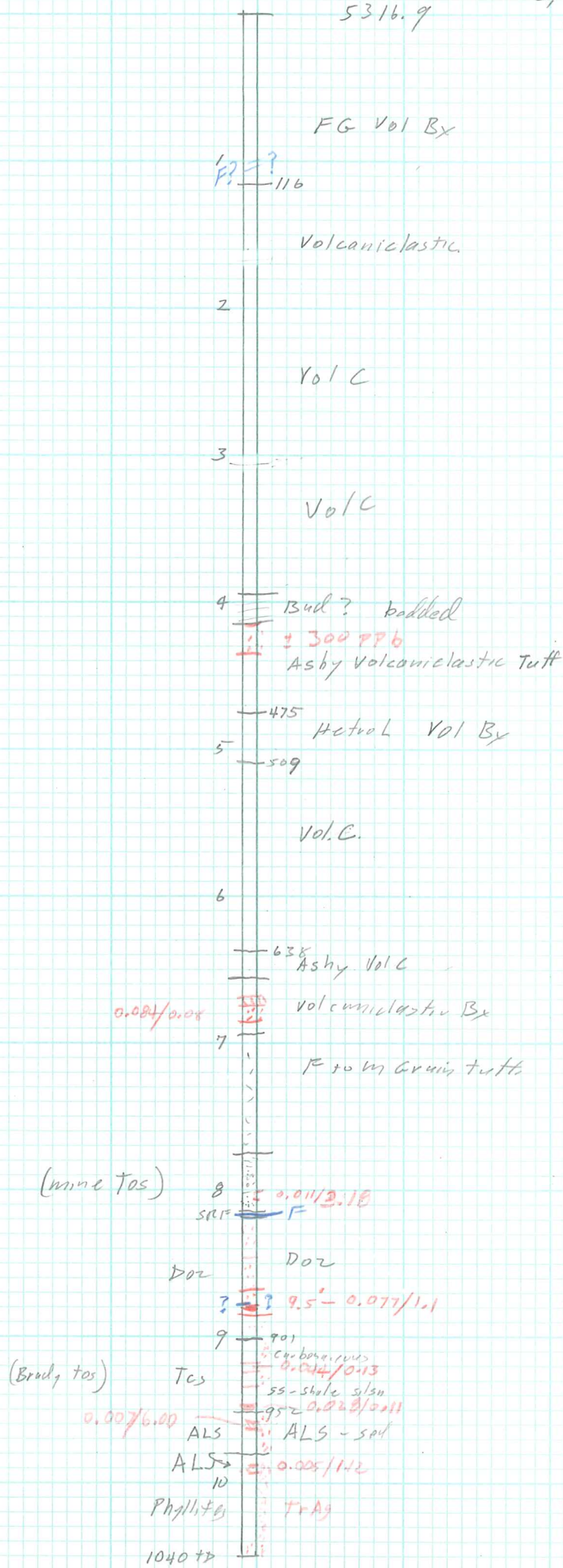
5316.9 — Au

Depth	Ag	AS	Cu	BA	CA	MO	Ni	SB	SR	U	Zn	V
	0.5	5	11		.85							
75												
	0.5	5	12		1.15							
145												
	0.5	5	9		1.26							
215												
	0.5	5	9		1.9							
285												
	1.8	12	8		2.41							
395												
	1.9	8	11		1.04							
435												
	0.5	5	6		1.99							
484												
	0.8	14	12		1.13							
534												
	1.0	8	9		0.14							
584												
	2.2	10	10		0.91							
624												
	0.5	5	7		2.93							
664												
	0.9	9	9		1.62							
689												
	0.5	5	4		1.62							
749												
	1.9	5	9		1.72							
786.5												
801	13.4	17	14		0.27							
819	37.6	9	37		0.13							
	2.2	14	27		0.14							
853												
	2.0	7	50		0.14							
878												
	15.5	20	35		0.37							
914												
	0.7	14	36		0.48							
952												
	32.5	16	63		0.55							
1004												
	4.9	18	53		2.1							

1 — F-Grain Vol Bx
166
2 — Vol clastic
305 — Ashy Vol clast.
345 — Vol clastic
4 — 395 — F.Gr Clastic
Bud? 415 — Vol clastic
Bud? 435 — Ashy Vol clast
474 — Hetrolithic Vol clast.
5 — 509 — Vol clastics
6
693 — Pink FGT
776 — softy Ashy
780
8 — SRF — DOZ
9 — Tes
ALS — sed
10 — ALS — phyllite
1050 TD

Poor GeoClem Above

Ore Ind. Geoc.



Rosebud
94-335
1" = 100'

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT

American Assay Laboratories

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : 94-335
JOB NUMBER : SP030959
REPORTED :

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb
94-335 00-15	<5	
94-335 15-25	<5	
94-335 25-35	6	<5
94-335 35-45	<5	
94-335 45-55	<5	
94-335 55-65	<5	
94-335 65-75	<5	
94-335 75-85	<5	
94-335 85-95	<5	
94-335 95-105	<5	
94-335 105-115	<5	
94-335 115-125	5	<5
94-335 125-135	<5	
94-335 135-145	<5	
94-335 145-155	<5	
94-335 155-165	8	
94-335 165-175	<5	
94-335 175-185	<5	
94-335 185-195	<5	
94-335 195-205	<5	
94-335 205-215	7	
94-335 215-225	<5	
94-335 225-235	<5	
94-335 235-245	<5	<5
94-335 245-255	<5	

AMERICAN ASSAY LABORATORIES
ANALYSIS REPORT

American Assay Laboratories

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : 94-335
JOB NUMBER : SP030959
REPORTED :

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb
94-335 255-265	<5	
94-335 265-275	<5	
94-335 275-285	<5	
94-335 285-295	<5	
94-335 295-305	<5	
94-335 305-315	<5	
94-335 315-325	<5	
94-335 325-335	<5	
94-335 335-345	<5	
94-335 345-355	<5	
94-335 355-365	<5	
94-335 365-375	<5	
94-335 375-385	<5	
94-335 385-395	<5	
94-335 395-405	67	
94-335 405-415	52	
94-335 415-425	378	
94-335 425-435	262	271
94-335 435-445	8	

AMERICAN ASSAY LABORATORIES
ANALYSIS REPORT

American Assay Laboratories Inc.

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : 94-335
JOB NUMBER : SP031325
REPORTED :

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb
94-335 439-464	<5	
94-335 464-474	<5	
94-335 474-484	<5	
94-335 484-494	60	
94-335 494-504	80	87
94-335 504-514	<5	
94-335 514-521	<5	
94-335 521-534	40	
94-335 534-544	37	
94-335 544-554	14	
94-335 554-564	38	
94-335 564-574	60	
94-335 574-584	30	
94-335 584-594	17	
94-335 594-604	35	
94-335 604-614	20	
94-335 614-624	34	
94-335 624-638.5	6	
94-335 638.5-644	5	

AMERICAN ASSAY LABORATORIES
ANALYSIS REPORT

American Assay Laboratories Inc.

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : 94-335
JOB NUMBER : SP031408
REPORTED : 2 NOV 1994

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	AuGRAV GRAV OPT
94-335 644-654	<5	<5	
94-335 654-664	<5		
94-335 664-674	5218		0.136

AMERICAN ASSAY LABORATORIES
ANALYSIS REPORT

American Assay Laboratories

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : 94-335
JOB NUMBER : SP031397
REPORTED : 3 NOV 1994

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
94-335 674-679	0.086		0.074	0.08
94-335 679-684	0.084		0.092	0.08
94-335 684-689	0.005			0.04
94-335 689-694	<0.001			<0.02
94-335 694-699	<0.001			<0.02
94-335 699-704	<0.001			<0.02
94-335 704-709	<0.001			<0.02
94-335 709-714	<0.001	<0.001		<0.02
94-335 714-719	<0.001			<0.02
94-335 719-724	<0.001			<0.02
94-335 724-729	<0.001			<0.02
94-335 729-734	<0.001			<0.02
94-335 734-739	<0.001			<0.02
94-335 739-744	0.001			0.03
94-335 744-749	0.010	0.009		0.07
94-335 749-754	<0.001			0.04
94-335 754-759	<0.001			0.02
94-335 759-764	0.004			0.06
94-335 764-769	0.006			0.07
94-335 769-774	0.002			0.02
94-335 774-776	<0.001			0.02
94-335 776-781	0.002			0.04
94-335 781-786.5	0.001			0.06
94-335 786.5-791.5	0.008			0.60
94-335 791.5-796	0.012			0.47

AMERICAN ASSAY LABORATORIES
ANALYSIS REPORT

American Assay Laboratories

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : 94-335
JOB NUMBER : SP031397
REPORTED : 3 NOV 1994

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
94-335 796-801	0.013			0.41
94-335 801-805	0.011			0.38
94-335 805-810	0.004			3.17
94-335 810-814	0.001			0.57
94-335 814-819	0.003			0.30
94-335 819-824	0.002			0.03
94-335 824-829	0.018			0.53
94-335 829-833	0.020			0.07
94-335 833-834.5	<0.001			0.04
94-335 834.5-839	0.009			0.22
94-335 839-844	0.015			0.07
94-335 844-848	0.038			0.06
94-335 848-853	0.003			0.04
94-335 853-858	0.015			0.13
94-335 858-863	0.002			0.13
94-335 863-869	0.008			0.08
94-335 869-874.5	0.010			0.04
94-335 874.5-876	0.133		0.166	0.16
94-335 876-878.5	0.075		0.077	0.14
94-335 878.5-884	0.076		0.065	2.36
94-335 884-889	0.009			0.18
94-335 889-894	0.012			0.21
94-335 894-900	0.011			0.11
94-335 900-905	0.019			0.23
94-335 905-909	0.015			0.28

AMERICAN ASSAY LABORATORIES
ANALYSIS REPORT

American Assay Laboratories

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : 94-335
JOB NUMBER : SP031397
REPORTED : 3 NOV 1994

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
94-335 909-914	0.005			0.15
94-335 914-919	0.034			0.15
94-335 919-924	0.044			0.13
94-335 924-929	0.010			0.06
94-335 929-934	<0.001			<0.02
94-335 934-939	0.001			0.03
94-335 939-944	0.002			0.03
94-335 944-949	0.006			0.04
94-335 949-951.3	0.016			0.09
94-335 951.3-952.8	0.018	0.028	0.028	0.14
94-335 952.8-959	0.003			0.55
94-335 959-964	0.007			6.00
94-335 964-969	0.003			0.28
94-335 969-974	0.004			0.53
94-335 974-979	0.003			0.30
94-335 979-984	0.005			0.43
94-335 984-989	0.002			0.26
94-335 989-994	0.005			1.12
94-335 994-999	0.003			0.17
94-335 999-1004	0.004			0.14
94-335 1004-1009	0.002			0.14
94-335 1009-1014	0.001			0.06
94-335 1014-1019	0.006			0.16
94-335 1019-1024	0.002			0.07
94-335 1024-1029	0.002			0.13

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT

American Assay Laboratories

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : 94-335
JOB NUMBER : SP031397
REPORTED : 3 NOV 1994

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
94-335 1029-1034	0.002			0.12
94-335 1034-1039	0.001			0.16
94-335 1039-1044	0.001			0.18
94-335 1044-1050	0.004	0.004		0.38

American Assay Laboratories

INVOICE

Remit To: P.O. Box 71060
Reno, NV 89570
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 0030959-IN
INVOICE DATE: 09/30/94

North Zone

INVOICE TO:
HECLA MINING COMPANY
1225 UPPER VALLEY ROAD
P. O. BOX 1861
LOVELOCK NV 89419

HECLA MINING COMPANY
1225 UPPER VALLEY ROAD
P. O. BOX 1861
LOVELOCK NV 89419

CUSTOMER P.O.	PROJECT	TERMS
C. MUERHOFF	ROSEBUD 94-335	NET 30

QUANTITY	DESCRIPTION	PRICE	AMOUNT
44	SAMPLES RECEIVED	.00	.00
44	DRYING	.80	35.20
44	JAW CRUSHING CHARGE	1.20	52.80
44	SPLITTING CHARGE	1.00	44.00
44	KEEGOR MILLING CHARGE	2.00	88.00
44	Au (1 A.T. FIRE ASSAY)	7.25	319.00

OK to pay
P.O. # 400027; line 4
Charles V. Muerhoff

NET INVOICE:	539.00
LESS DISCOUNT:	161.70
FREIGHT:	.00
INVOICE TOTAL:	377.30

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

:

:

:

CLIENT REFERENCE No: 94-335

LABORATORY JOB No. : SP030959

SAMPLE TYPE :

RECEIVED : 21 SEP 1994

REPORTED :

No. SAMPLES : 44

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au	FA30	15%	ppb	5
Au(R)	FA30	15%	ppb	5

SIGNATORY : Sue Faircloth M.S.

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

CLIENT REFERENCE No: 94-335
LABORATORY JOB No. : SP030959
SAMPLE TYPE :

RECEIVED : 21 SEP 1994
REPORTED :
No. SAMPLES : 44

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au	FA30	15%	ppb	5
Au(R)	FA30	15%	ppb	5

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT

American Assay Laboratories

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : 94-335
JOB NUMBER : SP030959
REPORTED :

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb
94-335 00-15	<5	
94-335 15-25	<5	
94-335 25-35	6	<5
94-335 35-45	<5	
94-335 45-55	<5	
94-335 55-65	<5	
94-335 65-75	<5	
94-335 75-85	<5	
94-335 85-95	<5	
94-335 95-105	<5	
94-335 105-115	<5	
94-335 115-125	5	<5
94-335 125-135	<5	
94-335 135-145	<5	
94-335 145-155	<5	
94-335 155-165	8	
94-335 165-175	<5	
94-335 175-185	<5	
94-335 185-195	<5	
94-335 195-205	<5	
94-335 205-215	7	
94-335 215-225	<5	
94-335 225-235	<5	
94-335 235-245	<5	<5
94-335 245-255	<5	

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT

American Assay Laboratories

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : 94-335
JOB NUMBER : SP030959
REPORTED :

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb
94-335 255-265	<5	
94-335 265-275	<5	
94-335 275-285	<5	
94-335 285-295	<5	
94-335 295-305	<5	
94-335 305-315	<5	
94-335 315-325	<5	
94-335 325-335	<5	
94-335 335-345	<5	
94-335 345-355	<5	
94-335 355-365	<5	
94-335 365-375	<5	
94-335 375-385	<5	
94-335 385-395	<5	
94-335 395-405	67	
94-335 405-415	52	
94-335 415-425	378	
94-335 425-435	262	271
94-335 445-455	8	

American Assay Laboratories

INVOICE

Remit To: P.O. Box 71060
Reno, NV 89570
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 0031408-IN
INVOICE DATE: 11/04/94

INVOICE TO:
HECLA MINING COMPANY
1225 UPPER VALLEY ROAD
P. O. BOX 1861
LOVELOCK NV 89419

HECLA MINING COMPANY
1225 UPPER VALLEY ROAD
P. O. BOX 1861
LOVELOCK NV 89419

CUSTOMER P.O.	PROJECT	TERMS
C. MUERHOFF	ROSEBUD 94-336	NET 30

QUANTITY	DESCRIPTION	PRICE	AMOUNT
3	SAMPLES RECEIVED	.00	.00
3	JAW CRUSHING CHARGE	1.20	3.60
3	COARSE MILLING CHARGE	1.00	12.00
3	SPLITTING CHARGE	1.50	1.50
3	EEEGOR MILLING CHARGE	2.00	6.00
3	BLENDING CHARGE	1.00	3.00
3	RING MILLING CHARGE	1.50	4.50
3	Au (1 A.T. FIRE ASSAY)	7.25	21.75
1	Au ANALYSES/GRAVIMETRIC	7.75	7.75

OK to pay
140195-477
CM

NET INVOICE:	63.10
LESS DISCOUNT:	18.93
FREIGHT:	.00
INVOICE TOTAL:	44.17

ANALYSIS REPORT

American Assay Laboratories Inc.

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

:

:

:

CLIENT REFERENCE No: 94-335

LABORATORY JOB No. : SP031408

SAMPLE TYPE :

RECEIVED : 24 OCT 1994

REPORTED : 2 NOV 1994

No. SAMPLES : 3

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au	FA30	15%	ppb	5
Au(R)	FA30	15%	ppb	5
AuGRAV	GRAV	15%	OPT	0.001

SIGNATORY : Sue Faircloth M.S.

ANALYSIS REPORT

American Assay Laboratories Inc.

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: 94-335

LABORATORY JOB No. : SP031408

SAMPLE TYPE :

RECEIVED : 24 OCT 1994

REPORTED : 2 NOV 1994

No. SAMPLES : 3

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au	FA30	15%	ppb	5
Au(R)	FA30	15%	ppb	5
AuGRAV	GRAV	15%	OPT	0.001

ok to pay
140195-477
CM

SIGNATORY : Sue Faircloth M.S.

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT

American Assay Laboratories Inc.

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : 94-335
JOB NUMBER : SP031408
REPORTED : 2 NOV 1994

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb	AuGRAV GRAV OPT
94-335 644-654	<5	<5	
94-335 654-664	<5		
94-335 664-674	5218		0.136

American Assay Laboratories

INVOICE

Remit To: P.O. Box 71060
Reno, NV 89570
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 0031325-IN
INVOICE DATE: 10/28/94

INVOICE TO:
HECLA MINING COMPANY
1225 UPPER VALLEY ROAD
P. O. BOX 1861
LOVELOCK NV 89419

HECLA MINING COMPANY
1225 UPPER VALLEY ROAD
P. O. BOX 1861
LOVELOCK NV 89419

CUSTOMER P.O.	PROJECT	TERMS
C. MUERHOFF	ROSEBUD 94-335	NET 30

QUANTITY	DESCRIPTION	PRICE	AMOUNT
19	SAMPLES RECEIVED	.00	.00
19	DRYING	.80	15.20
19	JAW CRUSHING CHARGE	1.20	22.80
19	SPLITTING CHARGE	1.00	19.00
19	KEEGOR MILLING CHARGE	2.00	38.00
19	Au (1 A.T. FIRE ASSAY)	7.25	137.75

OK to pay
140195-477
Charles V. Muerhoff

NET INVOICE:	232.75
LESS DISCOUNT:	69.83
FREIGHT:	.00
INVOICE TOTAL:	162.92

ANALYSIS REPORT

American Assay Laboratories Inc.

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

:

:

:

CLIENT REFERENCE No: 94-335

LABORATORY JOB No. : SP031325

SAMPLE TYPE :

RECEIVED : 17 OCT 1994

REPORTED :

No. SAMPLES : 19

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au	FA30	15%	ppb	5
Au(R)	FA30	15%	ppb	5

SIGNATORY : Sue Faircloth M.S.

ANALYSIS REPORT

American Assay Laboratories Inc.

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

:

:

:

CLIENT REFERENCE No: 94-335

LABORATORY JOB No. : SP031325

SAMPLE TYPE :

RECEIVED : 17 OCT 1994

REPORTED :

No. SAMPLES : 19

ANALYSIS	ANALYTICAL METHOD	QUALITY PARAMETER	UNIT	DETECTION
Au	FA30	15%	ppb	5
Au(R)	FA30	15%	ppb	5

SIGNATORY : Sue Faircloth M.S.

AMERICAN ASSAY LABORATORIES

ANALYSIS REPORT

American Assay Laboratories Inc.

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : 94-335
JOB NUMBER : SP031325
REPORTED :

SAMPLES	Au FA30 ppb	Au(R) FA30 ppb
94-335 439-464	<5	
94-335 464-474	<5	
94-335 474-484	<5	
94-335 484-494	60	
94-335 494-504	80	87
94-335 504-514	<5	
94-335 514-521	<5	
94-335 521-534	40	
94-335 534-544	37	
94-335 544-554	14	
94-335 554-564	38	
94-335 564-574	60	
94-335 574-584	30	
94-335 584-594	17	
94-335 594-604	35	
94-335 604-614	20	
94-335 614-624	34	
94-335 624-638.5	6	
94-335 638.5-644	5	

American Assay Laboratories

INVOICE

Remit To: P.O. Box 71060
Reno, NV 89570
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 0031397-IN
INVOICE DATE: 11/04/94

INVOICE TO:
HECLA MINING COMPANY
1225 UPPER VALLEY ROAD
P. O. BOX 1861
LOVELOCK NV 89419

HECLA MINING COMPANY
1225 UPPER VALLEY ROAD
P. O. BOX 1861
LOVELOCK NV 89419

CUSTOMER P.O.	PROJECT	TERMS
C. MUERHOFF	ROSEBUD 94-335	NET 30

QUANTITY	DESCRIPTION	PRICE	AMOUNT
79	SAMPLES RECEIVED	.00	.00
79	JAW CRUSHING CHARGE	2.40	189.60
79	COARSE MILLING CHARGE	8.00	632.00
79	SPLITTING CHARGE	2.00	158.00
79	EEEGOR MILLING CHARGE	2.00	158.00
79	BLENDING CHARGE	1.00	79.00
79	RING MILLING CHARGE	1.50	118.50
79	Au (2 A.T. FIRE ASSAY)	9.50	750.50
6	Au ANALYSES/GRAVIMETRIC	10.00	60.00
79	HYDROCHLORIC/NITRIC DIGESTION	2.00	158.00
79	Ag ANALYSES	.80	63.20
3	Ag (ore grade) ANALYSES	5.00	15.00

OK to pay
140195-477
CM

NET INVOICE:	2,381.80
LESS DISCOUNT:	714.54
FREIGHT:	.00
INVOICE TOTAL:	1,667.26

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

:

:

:

CLIENT REFERENCE No: 94-335

LABORATORY JOB No. : SP031397

SAMPLE TYPE :

RECEIVED : 24 OCT 1994

REPORTED : 3 NOV 1994

No. SAMPLES : 79

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

SIGNATORY : Sue Faircloth M.S.

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: 94-335

LABORATORY JOB No. : SP031397

SAMPLE TYPE :

RECEIVED : 24 OCT 1994

REPORTED : 3 NOV 1994

No. SAMPLES : 79

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

SIGNATORY : Sue Faircloth M.S.

AMERICAN ASSAY LABORATORIES
ANALYSIS REPORT

American Assay Laboratories

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : 94-335
JOB NUMBER : SP031397
REPORTED : 3 NOV 1994

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
94-335 674-679	0.086		0.074	0.08
94-335 679-684	0.084		0.092	0.08
94-335 684-689	0.005			0.04
94-335 689-694	<0.001			<0.02
94-335 694-699	<0.001			<0.02
94-335 699-704	<0.001			<0.02
94-335 704-709	<0.001			<0.02
94-335 709-714	<0.001	<0.001		<0.02
94-335 714-719	<0.001			<0.02
94-335 719-724	<0.001			<0.02
94-335 724-729	<0.001			<0.02
94-335 729-734	<0.001			<0.02
94-335 734-739	<0.001			<0.02
94-335 739-744	0.001			0.03
94-335 744-749	0.010	0.009		0.07
94-335 749-754	<0.001			0.04
94-335 754-759	<0.001			0.02
94-335 759-764	0.004			0.06
94-335 764-769	0.006			0.07
94-335 769-774	0.002			0.02
94-335 774-776	<0.001			0.02
94-335 776-781	0.002			0.04
94-335 781-786.5	0.001			0.06
94-335 786.5-791.5	0.008			0.60
94-335 791.5-796	0.012			0.47

AMERICAN ASSAY LABORATORIES
ANALYSIS REPORT

American Assay Laboratories

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : 94-335
JOB NUMBER : SP031397
REPORTED : 3 NOV 1994

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
94-335 796-801	0.013			0.41
94-335 801-805	0.011			0.38
94-335 805-810	0.004			3.17
94-335 810-814	0.001			0.57
94-335 814-819	0.003			0.30
94-335 819-824	0.002			0.03
94-335 824-829	0.018			0.53
94-335 829-833	0.020			0.07
94-335 833-834.5	<0.001			0.04
94-335 834.5-839	0.009			0.22
94-335 839-844	0.015			0.07
94-335 844-848	0.038			0.06
94-335 848-853	0.003			0.04
94-335 853-858	0.015			0.13
94-335 858-863	0.002			0.13
94-335 863-869	0.008			0.08
94-335 869-874.5	0.010			0.04
94-335 874.5-876	0.133		0.166	0.16
94-335 876-878.5	0.075		0.077	0.14
94-335 878.5-884	0.076		0.065	2.36
94-335 884-889	0.009			0.18
94-335 889-894	0.012			0.21
94-335 894-900	0.011			0.11
94-335 900-905	0.019			0.23
94-335 905-909	0.015			0.28

AMERICAN ASSAY LABORATORIES
ANALYSIS REPORT

American Assay Laboratories

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : 94-335
JOB NUMBER : SP031397
REPORTED : 3 NOV 1994

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
94-335 909-914	0.005			0.15
94-335 914-919	0.034			0.15
94-335 919-924	0.044			0.13
94-335 924-929	0.010			0.06
94-335 929-934	<0.001			<0.02
94-335 934-939	0.001			0.03
94-335 939-944	0.002			0.03
94-335 944-949	0.006			0.04
94-335 949-951.3	0.016			0.09
94-335 951.3-952.8	0.018	0.028	0.028	0.14
94-335 952.8-959	0.003			0.55
94-335 959-964	0.007			6.00
94-335 964-969	0.003			0.28
94-335 969-974	0.004			0.53
94-335 974-979	0.003			0.30
94-335 979-984	0.005			0.43
94-335 984-989	0.002			0.26
94-335 989-994	0.005			1.12
94-335 994-999	0.003			0.17
94-335 999-1004	0.004			0.14
94-335 1004-1009	0.002			0.14
94-335 1009-1014	0.001			0.06
94-335 1014-1019	0.006			0.16
94-335 1019-1024	0.002			0.07
94-335 1024-1029	0.002			0.13

AMERICAN ASSAY LABORATORIES
ANALYSIS REPORT

American Assay Laboratories

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : 94-335
JOB NUMBER : SP031397
REPORTED : 3 NOV 1994

SAMPLES	Au(OZ) FA60 OPT	Au(RZ) FA60 OPT	AuGRAV GRAV OPT	Ag(OZ) D210 OPT
94-335 1029-1034	0.002			0.12
94-335 1034-1039	0.001			0.16
94-335 1039-1044	0.001			0.18
94-335 1044-1050	0.004	0.004		0.38

SAMPLE SUBMITTAL FORM

American Assay Laboratories Inc.

Sparks Office
1500 Glendale Ave.
Nevada 89431
Box 71060
Reno, NV. 89570
Telephone
(702) 356-0606
Fax
(702) 356-1413

Elko Office
2320 Last Chance Rd.
Nevada 89801
Box 2908
Elko, NV. 89801
Telephone
(702) 738-9100
Fax
(702) 738-2594

Company: Hecla Mining Co

Address: _____

Telephone Number: ( ) _____ Fax Number: ( ) _____

Project Name: Rosebud Purchase Order Number: _____

Transport Company: _____ Waybill Number: _____

Date Shipped: 10/21 Number of Packages: 42 [ ] Prepaid [ ] Collect

SAMPLED 10/11/94

ANALYSIS REQUIRED

94-335: SAMPLE			TYPE	ELEMENTS REQUIRED
848-853	924-929	994-999	CORE	Au & Ag 2AT FA w/ Hecla-Rosebud custom prep
853-858	929-934	999-1004		
858-863	934-939	1004-1009		
863-869	939-944	1009-1014		
869-874.5	944-949	1014-1019		* if Au ≥ .05 opt then report w/ SIAV. finish
874.5-876	949-951.3	1019-1024		
876-878.5	951.3-952.8	1024-1029		
878.5-884	952.8-959	1029-1034		
884-889	959-964	1034-1039		
889-894	964-969	1039-1044		
894-900	969-974	1044-1050		
900-905	974-979			
905-914	979-984			
914-919	984-989			
919-924	989-994			

COARSE REJECTS (Normally Discarded)

[ ] Return COD after analysis complete
[ ] By prior arrangements

PULPS (Normally Stored Free For One Month)

[ ] Discard after one month
[ ] Return COD after one month
[ ] By prior arrangements

RESULTS AND INVOICES TO BE SENT TO:

Please mark invoice person and address [I]

(1) Charlie Muerhoff

(2) _____

(3) _____

Comments:

CLIENT FILE COPY

SAMPLE SUBMITTAL FORM

American Assay Laboratories Inc.

Sparks Office
1500 Glendale Ave.
Nevada 89431
Box 71060
Reno, NV. 89570
Telephone
(702) 356-0606
Fax
(702) 356-1413

Elko Office
2320 Last Chance Rd.
Nevada 89801
Box 2908
Elko, NV. 89801
Telephone
(702) 738-9100
Fax
(702) 738-2594

Company: Hecla Mining Company

Address: _____

Telephone Number: ( ) _____ Fax Number: ( ) _____

Project Name: Rosebud Purchase Order Number: _____

Transport Company: _____ Waybill Number: _____

Date Shipped: 10/21 Number of Packages: ~~37~~ 36 [ ] Prepaid [ ] Collect

Sampled 10/14

ANALYSIS REQUIRED 335

~~94-338~~	SAMPLE		TYPE	ELEMENTS REQUIRED
674-679	749-754	819-824	CORE	Au & Ag 2AT FA
679-684	754-759	824-829		w/ Hecla-Rosebud
684-689	759-764	829-833		
689-694	764-769	833-834.5		* if Au ≥ .05 opt
694-699	769-774	834.5-839		then repeat with
699-704	774-776	839-844		grav. finish
94-~~704~~-709	776-781	844-848		
709-714	781-786.5			
714-719	786.5-791.5			
719-724	791.5-796			
724-729	796-801			
729-734	801-805			
734-739	805-~~820~~ 814			
739-744	~~820-824~~			
744-749	814-819			

COARSE REJECTS (Normally Discarded)

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(702) 738-9100
Fax
(702) 738-2594

Company: Hecla Mining Company

Address: _____

Telephone Number: ( ) _____ Fax Number: ( ) _____

Project Name: Rosebud Purchase Order Number: _____

Transport Company: _____ Waybill Number: _____

Date Shipped: 7/21 Number of Packages: 3 [ ] Prepaid [ ] Collect

SAMPLED 7/14

ANALYSIS REQUIRED

94-~~333~~ 335 SAMPLE	TYPE	ELEMENTS REQUIRED
644 - 654	CORE	Au / AT FA ppb
654 - 664	CHIPS	
664 - 674		
		* if Au ≥ 1500
		then report with
		grav. finish

COARSE REJECTS (Normally Discarded)

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[ ] By prior arrangements

PULPS (Normally Stored Free For One Month)

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[ ] Return COD after one month
[ ] By prior arrangements

RESULTS AND INVOICES TO BE SENT TO:

Please mark invoice person and address [I]

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(3) _____

Comments:

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Elko, NV. 89801
Telephone
(702) 738-9100
Fax
(702) 738-2594

Company: Hecla Mining Co

Address: _____

Telephone Number: ( ) _____ Fax Number: ( ) _____

Project Name: Rosebud Purchase Order Number: _____

Transport Company: _____ Waybill Number: _____

Date Shipped: 10/14/94 Number of Packages: 19 [ ] Prepaid [ ] Collect

Sampled 10/13/94

ANALYSIS REQUIRED

94-335: SAMPLE	TYPE	ELEMENTS REQUIRED
437-464 604-614	CORE	Au 1 AT FA ppb
464-474 614-624	chips	
474-474 624-634		
474-474 634-644		* if Au ≥ 1500 ppb
474-504		then repeat w/ grav. finish
504-514		
514-521		
521-534		
534-544		
544-554		
554-564		
564-574		
574-584		
584-594		
594-604		

COARSE REJECTS (Normally Discarded)

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PULPS (Normally Stored Free For One Month)

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(3) _____

Comments:

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2320 Last Chance Rd.
Nevada 89801
Box 2908
Elko, NV. 89801
Telephone
(702) 738-9100
Fax
(702) 738-2594

Company: Hecla Mining Co.

Address: _____

Telephone Number: ( ) _____ Fax Number: ( ) _____

Project Name: Rosebud Purchase Order Number: _____

Transport Company: _____ Waybill Number: _____

Date Shipped: 9/16/94 Number of Packages: 44 [ ] Prepaid [ ] Collect

ANALYSIS REQUIRED

SAMPLE	TYPE	ELEMENTS REQUIRED
94-335 0-15	RC	Au 1AT FA ppb
15-25		
25-35		
35-45		
10 H Samples		
425-435		
435-445		
[redacted]		

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