60001323

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. RL-90
AUTHOR	K. Kenner; J. Gaige; N. Brewer
DATE OF DOC(S)	1990
MULTI_DIST Y / (N?) Additional Dist_Nos:	
QUAD_NAME	Sulphur 7.5'
P_M_C_NAME (mine, claim & company names)	Rosebud Mine; Rosebud Project; Coutes Drilling; Lac Minerals (USA) Inc
COMMODITY If not obvious	gold silver
NOTES	Drill log; geology; assay; total depth 1012'; handwritten notes; also referred to as RL-90C 28p.

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 5/19/08
Initials Date
DB: mah
Initials Date
SCANNED:
Initials Date

Revised: 1/22/08

DRILL LOGS RL-90

Rosebud

LAC MINERALS (U.S.A.) INC.

DRILL LOG SUMMARY SHEET

PROJECT ROSEBUD

HOLE NUMBER RL-90 TOTAL DEPTH 1012' LOGGED BY R.C. DAM / KLK

Date started May 20, 1990

Date completed May 22, 1990

Initial bearing S55E

Initial inclination -63°

Elevation 5228.1

Collar coordinates:

N 2204287

E 481551

Contractor: COATES

Drill Type: UDR

Hole Size:

Drilling Conditions: RC. = 465'

Footage: Wet / Dry

Comments:

Posted Geochem: RC Ø-465' / KWT / 8-14-90

DOWN HOLE SURVEY INFORMATION

FROM	TO	SURVEY POINT	INCLINATION	BEARING	X (Northing)	Y (Easting)	Z (Elevation)
0	50		-60	S 55 E			
50	200		-63°	S58E			
200	400	300	-64°	S59E			
400	600	500	-66°	S54E			
600	800	700	-67°	S53E			
800	950	900	-67°	S54E			
950	1012	1000	-66°	S53E			

LAC MINERALS (U.S.A.) INC.
ROSEBUD PROJECT

CHOCOLATE TUFF
BUD BRECCIA
BUD TUFF
BUD EPICLASTIC
BUD TUFF BRECCIA
DT DOZER WELDED TUFF

ARGILLIC
XX SILICIFICATION
OX OXIDIZED
DRUZY QUARTZ
XC CHALCEDONIC QUARTZ
XK STOCKWORK QUARTZ
P P P PROPYLITIZATION
Ca CALCITE

DRILL HOLE RL-90

Page 1 of 5

LOGGED BY DAM

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au oz/T	Ag oz/T	CHECK	
									LT BROWN				4%		.002	<.10		
05		XX							BEIGE GREY					5-35 STRONGLY SILICIFIED, WEAKLY OXIDIZED EPICLASTIC	.01	<		
10															.009	<		
15															.002	<		
20															.002	<		
25															.003	<		
30															.002	<		
35		~							LT GREEN					35-65 BLEACHED WEAKLY OXIDIZED WELDED TUFF	.002	<		
40									LT PINK						.003	<		
45															.003	<		
50															.007	.11		
55									YELLOW PINK						.011	.23		
60									LT GREEN + PINK						.009	<		
65		~												LBI 65-325 GREEN WELDED TUFF LOCALLY BLEACHED + LOCALLY FRAGMENTAL	.018	<		
70		~							LT GREEN + YELLOW						.013	.10		
75									BROWN + GREEN						.006	<		
80									G						<.001	.35		
85		~							GREEN						.001	<		
90															.001	<		
95		~							LT GREEN						.001	<		
100																		

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DRILL HOLE RL-90

Page 2 of 5

LOGGED BY DAM

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au O/T	Ag O/T	CHECK	
									GREEN				4%		.002	<		
05									Dk GREEN						.001	<		
10															<	<		
15															<	<		
20		~							LT GREEN						.001	<		
25									GREEN						.001	<		
30															<	<		
35															.009	<		
40		~													.005	<		
45															.001	<		
50														150 - 195 FRAGMENTAL (PYROCLASTIC)? INTERNAL	<	<		
55															.002	<		
60															.002	<		
65		~							LT GREEN						.002	<		
70		~													.001	<		
75															.001	<		
80															<	<		
85															<	<		
90															.001	.12		
95		~													.002	<		
200																		

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DRILL HOLE RL-90

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LOGGED BY DAM

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au O/T	Ag O/T	CHECK	
									GREEN				1/%	GREEN WELDED TUFF	.001	<		
205															<	<		
210															.001	<		
215															.005	.15		
220															.003	.29		
225		~													.012	<		
230															.006	.16		
235															.001	.13		
240															<	<		
245															.001	<		
250															.002	<		
255															.001	<		
260															.001	<		
265															.006	.21		
270															.002	.19		
275															.001	<		
280															.001	.12		
285															<	<		
290															.001	.11		
295															.079	.25		
300																		

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DRILL HOLE RL-90

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LOGGED BY DAM

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au O/T	Ag O/T	CHECK	
									LT GREEN				< 1%		.011	.14		
305															.008	.11		
310															.005	<		
315															.013	.12		
320													±1%		.018	<		
325		~							LT PINK				2%	325-370 BLEACHED WELDED TUFF w WEAK QUARTZ SULFIDE VEINING	.006	.18		
330		VQS XXX											±1%		.023	<		
335															.016	<		
340															.008	<		
345		VQS XX											5%		.008	<		
350													±1%		.004	.19		
355													1-2%		.011	<		
360															.012	.20		
365		VQS XX													.002	.13		
370									ROSE + GREEN				1-2%	370-420 WELDED TUFF, LOCALLY FRAGMENTED?	.002	.11		
375															.002	<		
380															.003	<		
385													±1%		<	<		
390															.001	<		
395															.001	<		
400																		

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LOGGED BY DAM

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au o/T	Ag o/T	CHECK	
									ROSE GREY				<1%		.001	<		
405															.001	<		
410															<	<		
415															.002	<		
420		~							BEIGE ROSE				1-2%	420-465 PEACH BLEACHED WELDED TUFF w FINE SULFIDES	.002	.10		
425															<	<		
430															<	<		
435															.001	<		
440															.002	.10		
445															.018	.31		
450													±1%		.001	<		
455															.001	.12		
460														T.D. = 465'	<	<		
T.D. 465																		
470																		
475																		
480																		
485																		
490																		
495																		
500																		

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG
465	107			~1% bladed fine diss sulfid	
470	99	33° VN; CA VN 35°			
480	100		fract py VN 13°	2-3% fine diss + VN py + py replac phno blades + buck shot py	
490	100	py VNS 60; 15	clay 80; 5 py 35		20°
500	105	ser py VN 40°	contact Fault? 40°		40°
510	96		45 fault contact	~2% buck shot + VN + diss py	45
520	100	40 crack VNS	47 VN		
530	93	pyVN 70; SS grn	fract		

DESCRIPTION

465 CORE BEGINS

CIC

465-481.7 PINK VOLCANIC Breccia, matrix supported w/ clasts up to >32mm, matrix supported - tuffaceous matrix, mod to mod str. pervasive flesh color alteration, clasts predom: flow banded to fine grained tuff - locally bleached off white to flesh coloration 475-476.5 - w/ local sulfide clasts up to 30mm, w/ assoc. CALCITE VNS, local fine micro-AUTO Aia tuff frags w/ in matrix, weak fine calcite VNlets, locally up to 5mm wide + weak local fine lt green translucent weak to mod perv. argillic alt. clay VNS

ALMOST LOOKS LIKE BUD TUFF Breccia

481.7 - 503

Fine Grained Tuff - semi gradational to abrupt contact mod perv. bleaching, clay alt, mod veining - predom pyrite w/ local pyrite sericite, trace calcite VNS, weak lt green translucent clay VNS, poss. local calcite, pyrite, stibnite sericite VNS ± clay, weak buckshot py

492.5-497 small zone of volcanic breccia @ above w/ local tectonic Aia indications w/ micro Aia matrix w/ sericite + green clay fill.

CONTINUED: local crackle fracturing w/ 2ndary fill veins ± 2-3 mm predom

503-507.7 FAULT upper contact @ 40° lower @ 45°, mod strong pervasive silicification - matrix (SiO_2) supported clasts: Fine gr, flow band tuff, few gouge zones w/ strong sericite + clay + druzy SiO_2 + py replac marcasite. ± 2% pyrite replaced bladed phenos

507.7 - 571 FINE GRAINED FLOW BANDED TUFF

mixed flesh, green, pervasively fractured - w/ local dark green clay fill, predom green alt. permeating out from fracts, mod perv. bleached, v. weak clay alt, local weak chalcedon fract fill w/ trace hydroth. microbreccia VNS w/ siliceous matrix, VN - fracts predom emerald green clay? ± pyrite

ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
465-470				<.001	<.1
470-475				<	<
475-480				<	<
480-485				<	<
485-490				.003	.11
490-495				.002	.10
495-499				.006	<
499-503				.002	<
503-507.7				.072	.15
507.7-513				.006	.11
513-518				.004	<
518-523				.001	<
523-528				<	<

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	DESCRIPTION
540	100	30 frac/45	30/ fract sev py VN	±2% diss +VN + buck shot py		533-535 ↑ fracturing w/ mod strong sericite fill plus weak emerald green mineral ≠ marcasite or py. replac. marcasite and poss weak jarosite
	100	30 clay VN	frac/5			535-554 ↓ flesh alt. w/ mod fracturing containing deep sea green mineral + local sericite + pyrite
550	97	28 frac VN	frac w/ py 22			
		40 sev py VN	30/ VN ca 900	~1% diss +VN py		554-562 ↑ green ↓ flesh coloration ↓ overall fracturing + veining - however w/ introduction of v. fine calcite veins up to max 3mm.
560	100 +					562-563 Hydro Δ in zone silicif w/ local opaline fill strong deep green matrix
			15° fract			566-571 predom. mod to mod str. green mod. strongly broken up w/ deep sea green mineral ± sericite ± pyrite fill
570	97	65 flo		1-2% diss +VN + buck shot py		571-604 VOLCANIC BRECCIA ± TUFF w/ rotated clasts mixed flesh + green mottled coloration clast supported: predom fine grained tuff w/ only weak local flow banding, local fine auto-micro breccia matrix, up to bomb sized clasts weak fracturing w/ calcite and/or pyrite fill flesh color alteration predom. w/in matrix & locally zoned w/in clasts, local tectonic brecciation w/ calcite fill
		55 ca VN				
580	100	90 ca VN	60 CA VN	bladed @84' + ca VN		
						583-587 ↑ tectonic brecciation w/ wk $CaCO_3$ fill + weak calcite-py VNS
590	95	42 90 CA VN	35°/frac			595.8-604 w/ ↑ tectonic brecciation w/ assoc. ↑ flesh coloration @ 598 w/ up to 10mm. calcite VN, silicified w/ depth
			CS Alt cont			
600	100	25 ca VN				

ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
528-533				.003	<.10
533-538				.019	.31
538-543				.02	.22
543-548				.006	.24
548-553				.003	.22
553-558				.003	<
558-563				.001	<
563-568				.002	<
568-572.7				.001	<
572.7-578				.001	<
578-583				.001	<
583-587				.016	<
587-592				<.001	<
592-595.8				<	<
595.8-601				<	<

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG
	100			tr diss py	
		38 CA VN		±1% diss +VN py	
610	100		clay 90 fract		
		45 glauc VN			
620	100				
		45 CA VN			
630	102	90			
				nil to tr py VNS	
640	100	40 CA VN			
650	99	65 CA VN	±5° fract	<1% py VNS	
660	99	40 hem VN			
				nil to tr py VNS	
670			fract VN 60		

DESCRIPTION

600-604
Gradational Contact INTO FAIRLY FRESH ROCK
↑ brecciation + silicification

604-636
TRANSITIONAL: Volcanic Breccia into Fine Gr. Tuff
Clasts predom composed of fine grained tuff upper zone tectonically brecciated w/ bomb sized clasts pervasive reddish mauve + weak green coloration possibly locally silicified very weakly fractured w/ deep sea green ± calcite fill

604-607.5 predom purple unaltered coloration

621-636 ↓ green ↑ flesh coloration
↓ Autobrecciation, predom FGT

636-732 FRESH LBT - RBu → Purple brown - relatively fresh very fine grained w/ fine amygdaloidal texture locally w/ chalcedonic fill locally, weakly to moderatly fractured predom w/ hemititic stain; locally w/ calcite fill flecked w/ 1-2% biotite? phenos local zones of bleaching; wk bright green fracture fill + hemitite tr. 1 + green clay VNS

650-663.2
zone of mod strong bleaching + weak clay alt moderatly strongly fractured w/ hemitite ± calcite ± pyrite + deep sea green mineral

ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
601-606				<	<
606-611				<	<
611-616				<	<
616-621				<	<
621-626				<	<
626-631				<	<
631-636				<	<
636-641				<	<
641-646				<	<
646-650				<	<
650-654				<	<
654-659				<	<
659-663.2				<	<
663.2-668				<	<

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERAL-IZATION	GRAPHIC LOG	DESCRIPTION	ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
	100	30° fract	5-10° ca VN	<1% py VNS		670-732 LBT — CONTINUED	668-673				<	<
	98					PREDOMINANTLY PURPLE BURGUNDY very fine grained intrusive - SILL-DIKE? weakly to moderatly finely fractured w/ predom. hemitite + green (deep sea) fill and local $CaCO_3$ fill. Intermittently bleached w/ usually ↑ fracturing ASSOCIATED	673-678				<	<
680	100	65° fract					678-683				<	<
						683-685 moderatly bleached, mod. fractured w/ hemitite + green chlorite? ; local calcite	683-687				<	<
		5-7° fract					687-691				<	<
690	98						691-695.5				<	<
		70° fract	fract 5°			696.6-714 moderatly pervasively bleached to light sagegreen, moderatly to mod/strong fracturing w/ orange (hemitite?) mineral + poss. chlorite? ; calcite fill + pyrite vein fill locally ; micro breccia VNS - clast support autobrecciated dike material	695.5-696.6				<	<
			60° ca VN				696.3-701				<	<
700	99						701-706				<	<
		fract 5-10°	35 ca VN				706-710				<	<
710	100						710-714				<	<
		65° fract					714-718				<	<
720	100					722-732 mod to mod strong bleached zone is pervasive, weakly to mod fractured w/ hemitite?, chlorite? + $CaCO_3$ ± pyrite fill	718-722				<	<
		52° fract					722-727				<	<
730		90°					727-732				<	<
	100	py VN	contact ±90°	1-2% diss + VN py	ΔXΔ	732-733.5 FAULT ZONE - FINE GRAINED BLEACHED TUFF CLAST SUPPORTED (FGT) w/ light green clay MATRIX - possibly - previous SiO_2 cement has been altered, matrix flecked w/ bluegreen mineral	732-733.5				.002	<
		55°					733.5-738				.001	<
			85°	±30% stiken + py diss + VN	Δ▽		738-739				.001	<
740						733.5 → description on following page						

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG
	100	20° Fract 25° 65° FAULT	17° stib-rich clay + ca VN	2-3% diss + VN py + STIBN	65°
750	100	ca VN 75-85° 5° Ca + qtz + py VN	25° green + org + py VN	1-2% diss + VN py + TR local STIB.	
760	100	85° ca VN	qtz + py VNS 20° 80 green kaolin VNS		
770	105	5° 55° Kaolin VNS	50° contact		
780	103	10° ca py SiO2 VNS 45 fract 35	60° ca SiO2 py VNS		
790	102	55° py clay + qtz VNS	30° 70 py 10° 80° clay + py VN		
		65° drusy qtz py VNS		2-3% diss + VN py + local STIBN + WK py repl marcas	
800	104	py 60° qtz SiO2 VNS	fract 15° 10 25° ca STIB-clay py 65°		
810		green py VNS	15° 55°		

MAJOR BREAK @ 735 Speckled to FGT to 887

DESCRIPTION

733.5 - 795 SPECKLED FINE GRAINED TUFF due to preferrential clay alt mottled green; flesh coloration moderate pervasive bleaching weak perv. clay alt. moderate to locally strong fracturing with associated veining: Averaging 1-2mm wide; locally up to 5-10mm up to 3 stages of veining: ① pyrite + SiO_2 ② calcite ± kaolinite ± pyrite ± sericite ③ duck butter kaolinite - lt. green translucent w/ local dark green mineral - chlorite?

Intermittent secondary brecciation zones and local crackle breccia

738.2 - 738.8 strong clay gouge zone w/ silicified clasts; strong disseminated pyrite, followed by silicified breccia to 739'

738-746 mod veining - calcite, sericite, clay + stibnite

FAULT 745.7 - 750.5 secondary brecciation, clast supported moderatly silicified; local lt green clay fill clasts → FGT

755.4 - 759 weak to mod crackle to 2ndary brecciation w/ predom lt. green clay fill major veins w/ subparelle to core axis; fractures filled w/ $CaCO_3$ ⊥ to core axis

767 - 785 zone of secondary and crackle brecciation - mod strong w/ predom lt. green clay fill + local calcite ± pyrite

795 - 887.5 FINE GRAINED TUFF - LOCALLY FLOW BANDED TO WEAKLY SPECKLED: w/ perv. ↑ bleaching

795 - 807 Finely speckled - flow banded Tuff w/ weak ↑ bleaching; subsequent ↓ green mod. strongly fractured and veined w/ druzy qtz sulfide ± marcasite + barite veins - vuggy + fine 1-2mm SiO_2 + py ± kaolinite VNS + local strong sericite veins

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
739-743				.009	<
743-746				.008	<
746-750.5				.002	<
750.5-755				.003	<
755-760				.001	<
760-765				<	<
765-770				.001	<
770-775				.001	<
775-780				.002	<
780-785				.004	<
785-790				.002	<
790-795				.003	<
795-800				.007	<
800-805				.006	<
805-810				.003	<

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG
820	102	cart grn py vns 40°	80°	3-4% fine diss + vn + buck shot py + stibnite in vns	
	104	85°	35° 30°		35° 30°
		frac fill vn clay-py	vn contact		
830		40° py-carb vn	15° ca-py vn		
	100	75° py vn	clay-py vns ±5°	±2-3% diss + vn py + stibnite in vns	
840	102	85° ca-py vn	closed 120° ca vn 60°		
			crackle		
850	95	45° stibn ca SiO2 vn ±sericite 75°	clay altered ca vn 60°		
860	90		65° contact	3-4% diss + vn + buck shot py + stibnite in vns	65° FAULT
	95		SiO2-py vein vn		
870	92	f19 30°	ca-py SiO2 vn 48°		
880		35° ca vn	SiO2-py vn 42°		

DESCRIPTION

808 - 887 FINE GRAINED TUFF (LOCALLY FLOW BANDED w/ ↓)
mod to mod strongly pervasively bleached, weakly speckled w/ preferential clay alt. predom buff to weak flesh coloration pervasive mod to locally strong fracture-veining averaging <1mm to 2mm pyrite ± SiO_2 veins + kaolinite-lt green veins and local calcite veins, local veining up to 6-8mm veins w/ 2+ stages of: SiO_2 + $CaCO_3$ + clay + pyrite + local sericite ± stibnite which average 30-40° to core axis, local silicification

808-819 fracture veins w/ lt green permeating out ~5mm from vein.

819-820.4 hydrothermal breccia vein, mod well silicified in contact w/ tuff @ ~ ±30° to core axis matrix supported w/ SiO_2; micro brecciation ~2 stages of bxa, sulfide + SiO_2 rich seam w/in vein ~2%+ dissem stibnite?; concentrated w/in matrix

829-840 ZONE OF: STRONG FRACTURING, CRACKLE BRECCIATION; LOCAL SECONDARY BRECCIATION ALL IS PREDOM REHEALED w/ Lt green kaolinite w/ chlorite? fill 835-840 ~1-2% bladed metallic stibnite?, mod silicified

840-859.8 mod strongly veined from 2→6mm filled w/ sericite + calcite + stibnite + weak dark green mineral
845.5-846 Rubble - sericite rich + metallics

851-863 Intermittently brecciated ±2 stages predom clast supported w/ SiO_2 matrix, well silicified
859.8-863 Intense SiO_2 rehealed breccia ~65° to core axis - contact w/ tuff matrix supported, clasts: speckled - preferentially clay alt FGT to flow banded

863-887 FLOW BANDED TUFF buff to weak flesh color w/ hint of green, local relict flow banding noted by ↑bleaching, mod to mod strong veining averaging <1-2mm of predom SiO_2 + py w/ local sericite + $CaCO_3$ ± stibnite, weak local CRACKLE brecciation

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
810-815				.003	<
815-820				.004	<
820-825				.001	.10
825-830				.003	<
830-835				.001	<
835-839				.001	<
839-841				.043	.03
841-846				.043	.20
846-851				.011	<
851-856				.007	.17
856-859.8				.065	.31
859.8-863				.002	<
863-868				.008	<
868-873				.008	.12
873-878				.010	<

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG
	75	45 f10	60° SiO2 grnish vns ± clay	2-3% diss +vn py +wk stib-vns	
890	95	75° SiO2 py vn	py vns 50°	3-4% diss +vn +buck shot py + blodg sulfid	CONTACT
		80°			
900	100	15°	75 clay-py vns	2-3% diss +vn py	CONTACT
				±4% diss +vn py + matrix	analyse for Cu
910	103		grn-clay stry 25° vns 70°	2-3% diss +vn +buck shot py	
920	102	50° py vn	±5° fract py vns	75°	FAULT CONTACT
930	102	53° fract plane	40° f10	±2% diss +vn py	
940	100	40° fract	clay-py vn 70°		
950		45° grn vn ± py			

887-901 TUFF BRECCIA
901-923 FGT
923- GREEN LITHIC LAPILLI TUFF

DESCRIPTION

887-897 VOLCANIC BRECCIA - similar in texture to previously called (mineraliz. Bud tuff breccia) classic flesh coloration w/ bleached tuff clasts fine to ffaceous matrix support, moderatly veined w/ SiO_2-py ± Kaolinite ± stibnite + $CaCO_3$

897-901 FLOW BANDED TUFF similar to above volcanic breccia - same descrip.

901-906 Hydrothermal Breccia - predom clast supported mod well silicified clasts: fine grained to flow banded tuff matrix: SiO_2 rich w/ blue green mineral; local semi massive pyrite

906-923 FINE GRAINED BLEACHED TUFF
Buff w/ weak hint green coloration, weak to mod pervasively silicified mod well fractured; veined averaging ~ 1-2 mm w/ py + SiO_2 + blue green mineral + Kaolinite fill local crackle brecciation to rotated locally, local green zoning along fract. vns

920-923 BRECCIA FAULT CONTACT w/ BEDDED BUD @ 75° to core axis, well silicified w/ orange-peach matrix

923-965.2 LAPILLI TUFF - BEDDED BUD
CLAST SUPPORTED; predom bleached white; strongly clay altered w/ blue green clay altered matrix
CLASTS: FGT, pumice + flow banded tuff
weakly fractured w/ blue green mineral + pyrite fill
weak local flow directions
CLASTS: ALTERED pumice + FGT ± flow banded tuff

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
878-883				.018	<
883-887				.004	<
887-892				.005	.13
892-897				.003	<
897-901				.02	<
901-906				.014	<
906-911				.006	<
911-916				.007	<
916-920				.008	.13
920-923				.009	.13
923-928				.001	<
928-933				<	<
933-938				<	<
938-943				.006	.12
943-948				.003	.13

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	DESCRIPTION
	98	stress fld 35°		2-3% fine diss + VN py		923-965.2 LAPILLI TUFF (continued) -BEDDED BUD - strongly clay alt DESCRIP @ above
960	96	30° SiO2 py VN	common 55	±4% diss + VN py	55°	965.2-1012 DOZER?
970	103	70° SiO2 py fract VN	78-85° SiO2 py VN 27			965.2-986 FINE GRAINED TUFF - pervasively mod bleached; weakly CLAY ALTERED, BUFF + WEAK HINT GREEN, very STRONG fracture - fine stockwork veining averaging <1-2 mm; predom SiO2 + pyrite + local soft white clay (kaolinite?) Intermittently brecciated - w/ strong silicification (hydrother.?) plus weak deep green (chlorite?) mineral
980	100	25 SiO2 py fract VN				
990	96	15° SiO2 py	65 VN 5-7° 85 SiO2 py VN	±2% diss + VN py		986-1012 FINE GRAINED TUFF - pervasive, mod strong bleaching ± weak clay alt, Densely welded w/ ↓ mod fine stockwork-fracture veins w/ predom SiO2 + pyrite ± weak white clays; w/ calcite w/ ↓ + weak local deep green (chlorite?) mineral, weak local micro breccia veins, 1010'-1012 w/ introduction of sphalerite (?) in calcite veins
1000	100	±5° 72 SiO2 py veins				
1010		±25° SiO2 py	fract 85 SiO2 py			
1012		UP 30° sphalerite	±5° fracs	1-2% sphalerite		1012 T.D.

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
948-953				<	.12
953-958				<	.14
958-962				<	<
962-965.2				<	.17
965.2-970				.004	.18
970-975				.004	.18
975-980				.005	.13
980-985				.003	.15
985-988				.007	.16
988-992				.004	<
992-996				.005	<
996-1000.5				.007	.16
1000.5-1004				.003	.17
1004-1008				.002	.11
1008-1012				<	.25

RL-90

Footage Recovery	% Recovery	Sample Interval	Lithology
465-472	7.5/7 = 107%	465-470	465-503 BudTuff bxA
472-482	99%	470-475	FGT, dominant peach color,
482-492	100%	475-480	perussive, minor wht-lt grn
492-502	100%+	480-485	blc clasts, overall wk sulfides,
502-510	8.4/8 = 105%	485-490	minor hi angle + xcutt structures
510-519	8.6/9 = 96%	490-495	503-507.7
519-529	100%	495-499	Fault zone - intense wht,
529-531	2.8/3 = 93%	499-503	wk sulfide stockwork Si
531-541	100%	503-507.7	+ minor clay - dom. peach clasts
541-549.5	8.5/8.5 = 100%	507.7-513	507.7-558.5
549.5-560	10.2/10.5 = 97%	513-518	dom peach, wk grn, FGT,
560-570	100%+	518-523	grn, smectite? is post? perussive
570-580.5	10.2/10.5 = 97%	523-528	peach.??
580.5-589	8.5/8.5 = 100%	528-533	558.5-572.7
589-599	95%	533-538	dom grn, FGT w/ sty
599-609	100%	538-543	local Si vein bx w/ dk grn
609-619	100%	543-548	chlorite?
619-629	100%	548-553	572.7-595.8
629-639	102%	553-558	dom peach FGT w/ sty bx
639-649.5	100%	558-563	w/ grn Si vns + mod-sty
649.5-660	99%	563-568	grn clay alt
660-670	99%	568-572.7	595.8-636 BudTuff bxa
670-676	100%	572.7-578	dom peach FGT w/ local
676-679	98%	578-583	sty bx + wht lt angle Si
679-689	100%	583-587	vfins + sage grn clay
689-699.5	98%	587-592	alt on filling.
699.5-710	99%	592-595.8	
710-720	100%	595.8-601	
720-730	100%	601-606	
730-740	100%	606-611	
740-750	100%	611-616	
750-760	100%	616-621	
760-770	100%	621-626	
		626-631	
		631-636	

RL-90 continued

Footage Recovery	% Recovery	Sample Interval	Lithology
		636 - 641	636 - 650
		641 - 646	alt inverse? dk red, bx
		646 - 650	+ slg silicified
		650 - 654	
		654 - 659	650 - 663.2
		659 - 663.2	dk grn, FGT; dom grn w/
		663.2 - 668	pnch alt along fracts
		668 - 673	overall wk Si
		673 - 678	663.2 - 696.8
		678 - 683	Dike? red-brown, hematitic
		683 - 687	w/phen's to ghost, fn ??
		687 - 691	
		691 - 695.4 ✓	dk red Si, mod, inons (non-mag
		695.4 - 696.8 ✓	$\boxed{695.4 - 696.8}$
		696.8 - 701	Dike? tuff contact br?
		701 - 706	wht, blc, FGT w/ sulfide Si: oults
		706 - 710	696.8 - 714
		710 - 714	dom wht, Hwk lt grn alt along
		714 - 718	fracts, FGT, local slg bx
		718 - 722	along high angle fracts
		722 - 727	714 - 722
		727 - 732	banded dike? tuff?
		732 - 733.5	sharp contact @ 714, grade @ 722
		733.5 - 738	local slg Si oning
		738 - 739	722 - 732
		739 - 743	wht blc, FGT w/ lt to dk
		743 - 746	grn alt along low & high
		746 - 750.5	angle fracts
		750.5 - 755	732 - 733.5
		755 - 760	Fault Zone - wht, blc,
		760 - 765	dk vit Si cement to clay,
		765 - 770	clast dom bx
		770 - 775	733.5 - 738
			see 722-732 FGT
			738 - 739
			Fault zone, intense clay
			$\boxed{738.2 - 738.8}$, slg pyrite

RL-90 continued

Footage Recovery	% Recovery	Sample Interval	Lithology
770 - 780	105%	775 - 780	739-746
780 - 791	103%	780 - 785	peach, FGT w/ lt grn
791 - 801	102%	785 - 790	clay along hi angle fracts
801 - 811	104%	790 - 795	+ local stg wht siens
811 - 821	103%	795 - 800	746-750.5
821 - 831	104%	800 - 805	Bx zone, chert dominant.
831 - 841	100%	805 - 810	peach, FGT, si, wt cmt
841 - 851	102%	810 - 815	wk sulfidic
851 - 861.5	10'/10.5'	815 - 820	750.5 - 839
861.5 - 865	4.2'/4.5'	820 - 825	wk peach, FGT, local bx
865 - 872	5.9'/7'	825 - 830	w/ grn clay cmt
872 - 881	9.3'/9'	830 - 835	Overall wk Alt, wk -
881 - 891.5	10'/10.5'	835 - 839	mod local bx
891.5 - 902	10'/10.5'	839 - 841	819-820.4 rehealed zone
902 - 912	100% +	841 - 846	839 - 841
912 - 922	103%	846 - 851	Rehealed fault zone
922 - 932	102%	851 - 856	841 - 859.8
932 - 942	102%	856 - 859.8	intensely veined FGT
942 - 952	100% +	859.8 - 863	peach to buff w/ py ± marcasite + white clay
952 - 962	98%	863 - 868	859.8 - 863
962 - 972	98%	868 - 873	silicified rehealed A
972 - 982	103%	873 - 878	863 - 887
982 - 992	100% +	878 - 883	FGT bl to wk peach
992 - 1002	96%	883 - 887	w/ green zoned unc w/ qtz, py, kaolin fill
1002 - 1012	100%	887 - 892	* 887 - 897 Peach
TD		892 - 897	Bud Tuff Area
		897 - 901	897 - 901 FGT Bl
		901 - 906	901 - 906 silicified
		906 - 911	906 - 920
		911 - 916	Bl FGT w/ green zone fractures w/ sulfidic fill
			920 - 923
			peach + minor grn bx Tuff
			923 - 965.2
			grn clay alt pyroclastic tuff/bx of fault?
			South Ridge fault gouge???

RL - 90 continued

Sample Interval	Lithology
916 - 920	965.2 - 985
920 - 923	wht, blk Dozer FG wT
923 - 928	local sly Si + dry zy, vug qtz sulfide uns
928 - 933	
933 - 938	985 - 988
938 - 943	bx/silic. flt bx + gouge wk-mod grn alt
943 - 948	988 - 1012 TD
948 - 953	wht, blk Dozer FG wT
953 - 958	minor local Si bx
958 - 962	✓ 996 - 1000.5 recrystal, Si. flt/bx? zone.
962 - 965.2	
965.2 - 970	
970 - 975	975 - 980
985 - 988	980 - 985
988 - 992	
992 - 996	
996 - 1000.5	
1000.5 - 1004	
1004 - 1008	
1008 - 1012	
TD	

	SAMPLE I.D.			Au o/t	Ag o/t
121	RL-91	135	140	0.002	-0.10
122	RL-91	140	145	-0.001	-0.10
123	RL-91	145	150	0.049	0.14
124	RL-91	150	155	0.001	-0.10
125	RL-91	155	160	-0.001	-0.10
126	RL-91	160	165	-0.001	-0.10
127	RL-91	165	170	0.001	-0.10
128	RL-91	170	175	-0.001	-0.10
129	RL-91	175	180	-0.001	-0.10
130	RL-91	180	185	-0.001	-0.10
131	RL-91	185	190	0.001	-0.10
132	RL-91	190	195	0.001	-0.10
133	RL-91	195	200	-0.001	-0.10
134	RL-91	200	205	-0.001	-0.10
135	RL-91	205	210	-0.001	-0.10
136	RL-91	210	215	0.001	-0.10
137	RL-91	215	220	0.002	-0.10
138	RL-91	220	225	0.007	0.18
139	RL-91	225	230	0.003	-0.10
140	RL-91	230	235	0.003	-0.10
141	RL-91	235	240	-0.001	-0.10
142	RL-91	240	245	-0.001	-0.10
143	RL-91	245	250	-0.001	-0.10
144	RL-91	250	255	-0.001	-0.10
145	RL-91	255	260	-0.001	-0.10
146	RL-91	260	265	-0.001	-0.10
147	RL-91	265	270	-0.001	-0.10
148	RL-91	270	275	-0.001	-0.10
149	RL-91	275	280	-0.001	-0.10
150	RL-91	280	285	-0.001	-0.10
151	RL-91	285	290	0.001	-0.10
152	RL-91	290	295	0.008	-0.10
153	RL-91	295	300	0.022	-0.10
154	RL-91	300	305	-0.001	-0.10
155	RL-91	305	310	-0.001	-0.10
156	RL-91	310	315	0.001	-0.10
157	RL-91	315	320	-0.001	-0.10
158	RL-91	320	325	0.001	-0.10
159	RL-91	325	330	-0.001	0.16
160	RL-91	330	335	0.001	-0.10
161	RL-91	335	340	-0.001	-0.10
162	RL-91	340	345	-0.001	-0.10
163	RL-91	345	350	-0.001	-0.10
164	RL-91	350	355	-0.001	-0.10
165	RL-91	355	360	-0.001	-0.10

	SAMPLE I.D.			Au o/t	Ag o/t
166	RL-91	360	365	-0.001	-0.10
167	RL-91	365	370	-0.001	-0.10
168	RL-91	370	375	-0.001	-0.10
169	RL-91	375	380	0.007	-0.10
170	RL-91	380	385	-0.001	-0.10
171	RL-91	385	390	-0.001	-0.10
172	RL-91	390	395	-0.001	-0.10
173	RL-91	395	400	-0.001	-0.10
174	RL-91	400	405	-0.001	-0.10
175	RL-91	405	410	-0.001	-0.10
176	RL-91	410	415	-0.001	-0.10
177	RL-91	415	420	-0.001	-0.10
178	RL-91	420	425	-0.001	-0.10
179	RL-91	425	430	-0.001	-0.10
180	RL-91	430	435	-0.001	-0.10
181	RL-91	435	440	0.004	-0.10
182	RL-91	440	445	-0.001	-0.10
183	RL-91	445	450	-0.001	-0.10
184	RL-91	450	455	-0.001	-0.10
185	RL-91	455	460	-0.001	-0.10
186	RL-91	460	465	-0.001	-0.10

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THIS REPORT REVIEWED AND APPROVED BY:

Jerry Gaige

JERRY GAIGE, CHIEF CHEMIST

NEVADA GSI

JUL 0 2 1990

GEOCHEMICAL ANALYSIS REPORT

June 29, 1990

CUST. CODE: LOA
PROJECT: XXXX
P.O. #: XXXX
LOT ID: 7466

GEOLOGIST: NATE BREWER
COPIES TO: XXXX
COMPANY: LAC MINERALS
ANALYSIS: FIRE ASSAY FOR GOLD AND SILVER, WITH AN A.A. FINISH.

	SAMPLE I.D.				Au o/t	Ag o/t
1	RL-90	0	5		0.002	-0.10
2	RL-90	5	10		0.010	-0.10
3	RL-90	10	15		0.009	-0.10
4	RL-90	15	20		0.002	-0.10
5	RL-90	20	25		0.002	-0.10
6	RL-90	25	30		0.003	-0.10
7	RL-90	30	35		0.002	-0.10
8	RL-90	35	40		0.002	-0.10
9	RL-90	40	45		0.003	-0.10
10	RL-90	45	50		0.003	-0.10
11	RL-90	50	55		0.007	0.11
12	RL-90	55	60		0.011	0.23
13	RL-90	60	65		0.009	-0.10
14	RL-90	65	70		0.018	-0.10
15	RL-90	70	75		0.013	0.10
16	RL-90	75	80		0.006	-0.10
17	RL-90	80	85		-0.001	0.35
18	RL-90	85	90		0.001	-0.10
19	RL-90	90	95		0.001	-0.10
20	RL-90	95	100	A	0.001	-0.10
21	RL-90	95	100	B	0.002	-0.10
22	RL-90	100	105		0.002	-0.10
23	RL-90	105	110		0.001	-0.10
24	RL-90	110	115		-0.001	-0.10
25	RL-90	115	120		-0.001	-0.10
26	RL-90	120	125		0.001	-0.10
27	RL-90	125	130		0.001	-0.10
28	RL-90	130	135		-0.001	-0.10
29	RL-90	135	140		0.009	-0.10
30	RL-90	140	145		0.005	-0.10

1498 Kleppe Lane • Sparks, Nevada 89431 • FAX: 702/359-6605 • 702/359-6600

	SAMPLE I.D.			Au o/t	Ag o/t
31	RL-90	145	150	0.001	-0.10
32	RL-90	150	155	-0.001	-0.10
33	RL-90	155	160	0.002	-0.10
34	RL-90	160	165	0.002	-0.10
35	RL-90	165	170	0.002	-0.10
36	RL-90	170	175	0.001	-0.10
37	RL-90	175	180	0.001	-0.10
38	RL-90	180	185	-0.001	-0.10
39	RL-90	185	190	-0.001	-0.10
40	RL-90	190	195	0.001	0.12
41	RL-90	195	200	0.002	-0.10
42	RL-90	200	205	0.001	-0.10
43	RL-90	205	210	-0.001	-0.10
44	RL-90	210	215	0.001	-0.10
45	RL-90	215	220	0.005	0.15
46	RL-90	220	225	0.003	0.29
47	RL-90	225	230	0.012	-0.10
48	RL-90	230	235	0.006	0.16
49	RL-90	235	240	0.001	0.13
50	RL-90	240	245	-0.001	-0.10
51	RL-90	245	250	0.001	-0.10
52	RL-90	250	255	0.002	-0.10
53	RL-90	255	260	0.001	-0.10
54	RL-90	260	265	0.001	-0.10
55	RL-90	265	270	0.006	0.21
56	RL-90	270	275	0.002	0.19
57	RL-90	275	280	0.001	-0.10
58	RL-90	280	285	0.001	0.12
59	RL-90	285	290	-0.001	-0.10
60	RL-90	290	295	0.001	0.11
61	RL-90	295	300	0.079	0.25
62	RL-90	300	305	0.011	0.14
63	RL-90	305	310	0.008	0.11
64	RL-90	310	315	0.005	-0.10
65	RL-90	315	320	0.013	0.12
66	RL-90	320	325	0.018	-0.10
67	RL-90	325	330	0.006	0.18
68	RL-90	330	335	0.023	-0.10
69	RL-90	335	340	0.016	-0.10
70	RL-90	340	345	0.008	-0.10
71	RL-90	345	350	0.008	-0.10
72	RL-90	350	355	0.004	0.19
73	RL-90	355	360	0.011	-0.10
74	RL-90	360	365	0.012	0.20
75	RL-90	365	370	0.002	0.13

	SAMPLE I.D.			Au o/t	Ag o/t
76	RL-90	370	375	0.002	0.11
77	RL-90	375	380	0.002	-0.10
78	RL-90	380	385	0.003	-0.10
79	RL-90	385	390	-0.001	-0.10
80	RL-90	390	395	0.001	-0.10
81	RL-90	395	400	0.001	-0.10
82	RL-90	400	405	0.001	-0.10
83	RL-90	405	410	0.001	-0.10
84	RL-90	410	415	-0.001	-0.10
85	RL-90	415	420	0.002	-0.10
86	RL-90	420	425	0.002	0.10
87	RL-90	425	430	-0.001	-0.10
88	RL-90	430	435	-0.001	-0.10
89	RL-90	435	440	0.001	-0.10
90	RL-90	440	445	0.002	0.10
91	RL-90	445	450	0.019	0.31
92	RL-90	450	455	0.001	-0.10
93	RL-90	455	460	0.001	0.12
94	RL-90	460	465	-0.001	-0.10
95	RL-91	0	5	-0.001	-0.10
96	RL-91	5	10	-0.001	-0.10
97	RL-91	10	15	0.001	-0.10
98	RL-91	15	20	0.001	-0.10
99	RL-91	20	25	-0.001	-0.10
100	RL-91	25	30	0.001	0.19
101	RL-91	30	35	0.003	0.15
102	RL-91	35	40	0.003	0.12
103	RL-91	40	45	0.002	0.10
104	RL-91	45	50	0.004	0.15
105	RL-91	50	55	0.002	-0.10
106	RL-91	55	60	0.004	-0.10
107	RL-91	60	65	0.003	0.15
108	RL-91	65	70	0.003	0.18
109	RL-91	70	75	0.003	-0.10
110	RL-91	75	80	0.002	-0.10
111	RL-91	80	85	0.001	-0.10
112	RL-91	85	90	-0.001	-0.10
113	RL-91	90	95	0.001	-0.10
114	RL-91	100	105	0.001	-0.10
115	RL-91	105	110	0.006	-0.10
116	RL-91	110	115	0.002	0.11
117	RL-91	115	120	0.002	-0.10
118	RL-91	120	125	0.002	0.18
119	RL-91	125	130	0.004	-0.10
120	RL-91	130	135	-0.001	-0.10

NEVADA GSI

JUN 19 1990

GEOCHEMICAL ANALYSIS REPORT

June 15, 1990

CUST. CODE: LOA
PROJECT: URBD
P.O. #: XXXX
LOT ID: 7415

GEOLOGIST: NATE BREWER
COPIES TO: SAME
COMPANY: LAC MINERALS
ANALYSIS: FIRE ASSAY FOR GOLD AND SILVER, WITH AN A.A. FINISH.

	SAMPLE I.D.			Au o/t	Ag o/t
1.	RL-90-C	465	470	-0.001	-0.10
2.	RL-90-C	470	475	-0.001	-0.10
3.	RL-90-C	475	480	-0.001	-0.10
4.	RL-90-C	480	485	-0.001	-0.10
5.	RL-90-C	485	490	0.003	0.11
6.	RL-90-C	490	495	0.002	0.10
7.	RL-90-C	495	499	0.006	-0.10
8.	RL-90-C	499	503	0.002	-0.10
9.	RL-90-C	503	507.7	0.072	0.15
10.	RL-90-C	507.7	513	0.006	0.11
11.	RL-90-C	513	518	0.004	-0.10
12.	RL-90-C	518	523	0.001	-0.10
13.	RL-90-C	523	528	-0.001	-0.10
14.	RL-90-C	528	533	0.003	-0.10
15.	RL-90-C	533	538	0.019	0.31
16.	RL-90-C	538	543	0.020	0.22
17.	RL-90-C	543	548	0.006	0.24
18.	RL-90-C	548	553	0.003	0.22
19.	RL-90-C	553	558	0.003	-0.10
20.	RL-90-C	558	563	0.001	-0.10
21.	RL-90-C	563	568	0.002	-0.10
22.	RL-90-C	568	572.7	0.001	-0.10
23.	RL-90-C	572.7	578	0.001	-0.10
24.	RL-90-C	578	583	0.001	-0.10
25.	RL-90-C	583	587	0.016	-0.10
26.	RL-90-C	587	592	-0.001	-0.10
27.	RL-90-C	592	595.8	-0.001	-0.10
28.	RL-90-C	595.8	601	-0.001	-0.10
29.	RL-90-C	601	606	-0.001	-0.10
30.	RL-90-C	606	611	-0.001	-0.10
31.	RL-90-C	611	616	-0.001	-0.10

THIS REPORT REVIEWED AND APPROVED BY:

Richard A. Grondin

RICHARD GRONDIN, LABORATORY MANAGER

1498 Kleppe Lane • Sparks, Nevada 89431 • FAX: 702/359-6605 • 702/359-6600

NEVADA GSI

JUL 0 2 1990

GEOCHEMICAL ANALYSIS REPORT

June 27, 1990

CUST. CODE: LOA
PROJECT: URBD
P.O. #: XXXX
LOT ID: 7448

GEOLOGIST: NATE BREWER
COPIES TO: SAME
COMPANY: LAC MINERALS
ANALYSIS: FIRE ASSAY FOR GOLD AND SILVER, WITH AN A.A. FINISH.

	SAMPLE I.D.			Au o/t	Ag o/t
1.	RL-90C	616	621	-0.001	-0.10
2.	RL-90C	621	626	-0.001	-0.10
3.	RL-90C	626	631	-0.001	-0.10
4.	RL-90C	631	636	-0.001	-0.10
5.	RL-90C	636	641	-0.001	-0.10
6.	RL-90C	641	646	-0.001	-0.10
7.	RL-90C	646	650	-0.001	-0.10
8.	RL-90C	650	654	-0.001	-0.10
9.	RL-90C	654	659	-0.001	-0.10
10.	RL-90C	659	663.2	-0.001	-0.10
11.	RL-90C	663.2	668	-0.001	-0.10
12.	RL-90C	668	673	-0.001	-0.10
13.	RL-90C	673	678	-0.001	-0.10
14.	RL-90C	678	683	-0.001	-0.10
15.	RL-90C	683	687	-0.001	-0.10
16.	RL-90C	687	691	-0.001	-0.10
17.	RL-90C	691	695.5	-0.001	-0.10
18.	RL-90C	695.5	696.8	-0.001	-0.10
19.	RL-90C	696.8	701	-0.001	-0.10
20.	RL-90C	701	706	-0.001	-0.10
21.	RL-90C	706	710	-0.001	-0.10
22.	RL-90C	710	714	-0.001	-0.10
23.	RL-90C	714	718	-0.001	-0.10
24.	RL-90C	718	722	-0.001	-0.10
25.	RL-90C	722	727	-0.001	-0.10
26.	RL-90C	727	732	-0.001	-0.10
27.	RL-90C	732	733.5	0.002	-0.10
28.	RL-90C	733.5	738	0.001	-0.10
29.	RL-90C	738	739	0.001	-0.10
30.	RL-90C	739	743	0.009	-0.10

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	SAMPLE I.D.			Au o/t	Ag o/t
31.	RL-90C	743	746	0.008	-0.10
32.	RL-90C	746	750.5	0.002	-0.10
33.	RL-90C	750.5	755	0.003	-0.10
34.	RL-90C	755	760	0.001	-0.10
35.	RL-90C	760	765	-0.001	-0.10
36.	RL-90C	765	770	0.001	-0.10
37.	RL-90C	770	775	0.001	-0.10
38.	RL-90C	775	780	0.002	-0.10
39.	RL-90C	780	785	0.004	-0.10
40.	RL-90C	785	790	0.002	-0.10
41.	RL-90C	790	795	0.003	-0.10
42.	RL-90C	795	800	0.007	-0.10
43.	RL-90C	800	805	0.006	-0.10
44.	RL-90C	805	810	0.003	-0.10
45.	RL-90C	810	815	0.003	-0.10
46.	RL-90C	815	820	0.004	-0.10
47.	RL-90C	820	825	0.001	0.10
48.	RL-90C	825	830	0.003	-0.10
49.	RL-90C	830	835	0.001	-0.10
50.	RL-90C	835	839	0.001	-0.10
51.	RL-90C	839	841	0.043	0.03
52.	RL-90C	841	846	0.043	0.20
53.	RL-90C	846	851	0.011	-0.10
54.	RL-90C	851	856	0.007	0.17
55.	RL-90C	856	859.8	0.065	0.31
56.	RL-90C	859.8	863	0.002	-0.10
57.	RL-90C	863	868	0.008	-0.10
58.	RL-90C	868	873	0.008	0.12
59.	RL-90C	873	878	0.010	-0.10
60.	RL-90C	878	883	0.018	-0.10
61.	RL-90C	883	887	0.004	-0.10
62.	RL-90C	887	892	0.005	0.13
63.	RL-90C	892	897	0.003	-0.10
64.	RL-90C	897	901	0.020	-0.10
65.	RL-90C	901	906	0.014	-0.10
66.	RL-90C	906	911	0.006	-0.10
67.	RL-90C	911	916	0.007	-0.10
68.	RL-90C	916	920	0.008	0.13
69.	RL-90C	920	923	0.009	0.13
70.	RL-90C	923	928	0.001	-0.10
71.	RL-90C	928	933	-0.001	-0.10
72.	RL-90C	933	938	-0.001	-0.10
73.	RL-90C	938	943	0.006	0.12
74.	RL-90C	943	948	0.003	0.13
75.	RL-90C	948	953	-0.001	0.12

	SAMPLE I.D.			Au o/t	Ag o/t
76.	RL-90C	953	958	-0.001	0.14
77.	RL-90C	958	962	-0.001	-0.10
78.	RL-90C	962	965.2	-0.001	0.17
79.	RL-90C	965.2	970	0.004	0.18
80.	RL-90C	970	975	0.004	0.18
81.	RL-90C	975	980	0.005	0.13
82.	RL-90C	980	985	0.003	0.15
83.	RL-90C	985	988	0.007	0.16
84.	RL-90C	988	992	0.004	-0.10
85.	RL-90C	992	996	0.005	-0.10
86.	RL-90C	996	1000.5	0.009	0.16
87.	RL-90C	1000.4	1004	0.003	0.17
88.	RL-90C	1004	1008	0.002	0.11
89.	RL-90C	1008	1012	-0.001	0.25

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THIS REPORT REVIEWED AND APPROVED BY:

Terry Gaige

TERRY GAIGE, CHIEF CHEMIST

KLK
10-8-90

SUMMARY LOG RL-90 C

ROTARY:

5-325 LBT - MOTTLED FGT w/ variations of LLT

5-35 silicified oxidized cap rock
35-45 LITHIC BEDDED BUD
45-65 BL. wk Ox TUFF
65-195 BL TUFF w/ local bxa or lithic
~(110-120) POSS. INTRUSIVE
195-325 GRN TUFF

325-370 BL. FGT } poss local bxa or lithic
370-420 FGT } green + flesh
420-481.7 PEACH VOLC. Bxa

CORE:

481.7-503 FGT
503-507.7 FAULT - secondary hydro Δ ~40° to CORE
507.7-571 FGT + local flow banding
571-604 Volc. Bxa ± local tuff MOTTLED Flesh + green
604-636 TRANSITIONAL volc bxa into FGT
636-732 INTRUSIVE - DIKE-SILL
732-733.5 FAULT FGT clast supp. Δ
733.5-795 SPECKLED FGT
795-887.5 FGT local flow band to wk SPECKLING
887.5-897 Volc. bxa (similar to mineralized BUD TUFF Δia ie. lithic tuff)

897-901 FLOW BANDED TUFF
901-906 FAULT - HYDRO - Δ
906-923 FGT - Bl.
923-965.2 LITHIC LAPILLI TUFF - BEDDED BUD
965.2-1012 DOZER FGT - WELDED
965.2-986 mod. str. altered