60001309

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-75
AUTHOR	K. Kenner; R. Grondin; N. Brewer
DATE OF DOC(S)	1990 - 1991
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; Bondar-Clegg, Inc
COMMODITY If not obvious	gold silver
NOTES	Drill log; geology; assay; total depth 1071' handwritten notes; also referred to as RL-75C 42p.

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)

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

Revised: 1/22/08

DRILL LOGS RE-75

Rosebud

60001309 4010

60001309

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

DRILL LOG SUMMARY SHEET

PROJECT ROSEBUD

HOLE NUMBER RL-75 TOTAL DEPTH 1071 LOGGED BY KLK

Date started 4-12-90 0-225'
4-17-90 225-345'
Date completed 4-19-90 cored 345'-405'
4-25-90 cored

Initial bearing S55E

Initial inclination -60°

Elevation 5276.1

Collar coordinates:

N 2204377.0

E 481804.3

Contractor: COATES

Drill Type: Universal: RVC | CORE

Hole Size: hammer: 5" CORE-HQ

Drilling Conditions: good

Footage: Wet / Dry Dry: 0-220 Rotary to 345'

WET: 220 TO TD.

Comments: RVC Knowledge of drillers very weak I told them about broken foot valve after they spent 1/2 hr + messing around then reentered hole not good return - pulled out - found hole in innercharge tube - didn't have appropriate tools to fix - took off Thurs. nite for weekend monday drilled to 345' - hammer plugged up pulled out - decided to go to core - were unable to drill very effectively

DOWN HOLE SURVEY INFORMATION

FROM	TO	SURVEY POINT	INCLI-NATION	BEARING	X (Northing)	Y (Easting)	Z (Elevation)
0	250		-72	S 55E			
250	600		-75	S 64 E			
600	800		-76	S 63E			
800	985		-75	S 53 E			
985	1071		-74	S 61 E			

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-75

Page 1 of 4

LOGGED BY KLK

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au o/t	Ag g/t	CHECK	
	v v v	~ Xc P							golden org				tr local relict FeOx	0 - 105' Bud Breccia pyroclastic w/ mod to strong	.002	<		
05	v v v	~ Xc P							"				replac diss py	pervasive smectite ± nontronite alt. 0-25 mod oxidized FeOx wear perv. bleaching 0-105	.003	<		
10	v v v	~ Xc P							"				"	perv. argillic clay alt. v.wk local druzy qtz vns. wh local chalcedony vns	.001	<		
15	v v v	~ Xc P							"				"		.001	<		
20	v v v	~ Xc P							"				"		.001	<		
25	v v v	~ P							lt green				"		<	<		
30	v v v	~ P							"				"		<	<		
35	v v v	~ P							"				"		.002	<		
40	v v v	~ P							med to dk gray green				"		.001	<		
45	v v v	~ P							"				"		.001	<		
50	v v v	~ Xc P							"				"		.001	<		
55	v v v	~ P							"				"		.001	<		
60	v v v	~ P							"				"		.001	<		
65	v v v	~ P							"				"		.002	<		
70	v v v	~ P							"				"		.001	<		
75	v v v	~ P							"				"		<	<		
80	v v v	~ P							"				"		.001	<		
85	v v v	~ P							"				"		.001	<		
90	v v v	~ Xc P							"				"		.003	<		
95	v v v	~ Xc P							"				"		.010	.13		
100																		

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	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	
	v v v	~ Xc PP							golden brg				–	105-185 Dup sea green Bud pyroclast. Ox Bound w/ local fine grained mottled RE green, white tuff, perv	<	<		
105	v v v	~ Xc PP							dull sepia				–		.001	<		
110	v v v	~ Xc PP							"				–	dup green nontronite? (smectite) alt w/ local burgundy maybum	<	<		
115	v v v	~ Xc PP							"				–	bias intermittently w/ depth, perv argillic clay alt., wk local chalced vns	<	.16		
120	v v v	~ Xc PP							"				–	* maybe burn volcaniclastic sedim	<	.13		
125	v v v	~ Xc PP							"				–		<	<		
130	v v v	~ Xc PP							"				–		.001	<		
135	v v v	~ Xc PP							"				–		<	.15		
140	v v v	~ Xc PP							"				–		<	<		
145	v v v	~ Xc PP							"				–		<	<		
150	v v v	~ Xc PP							"				–		<	<		
155	v v v	~ PP							"				–		<	<		
160	v	~ PP							"				–		<	<		
165	v	~ PP							"				–		<	<		
170	v v	~ PP							"				–		.001	<		
175	v	~ PP							dup sea green + burg				–		.001	<		
180	v	~ PP							"				–		.001	<		
185		~ PP							"				–	185-200 Predom burg burn w/ chlorite vns DIKE OR SILL	<	<		
190		~ PP							"				–		<	<		
195		~ PP							"				–		.001	<		
200																		

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DRILL HOLE RL-75

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LOGGED BY KLK

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au ppb	Ag ppb	CHECK	
	D								deep gray to brick brn				–	185-270 Felsite Dike OR Sill deep gray to burg	.001	<		
205	I								"				–	brn w/ chlorite green ± chalc vesicle fill v. fine grained - relatively	.001	<		
210	K								"				–	fresh w/ trace FeOx along fractures	<	<		
215	E								"				–		.001	<		
220									"				–		<	<		
225									"				–		<	<		
230	O								"				–		<	.12		
235	R								"				–		<	<		
240									"				–		<	.16		
245									"				–		<	<		
250	S								"				–		<	<		
255	I								"				–		<	<		
260	L								"				–		<	<		
265	L								"				–		<	<		
270		PP							mottled white green				± 1% diss	270-345 mixed Bud fine grained tuff w/ local	<	<		
275		Xc PP							"				+VN PY	fragmental component wall strong pyr nontronite ± smectite alt weak	<	<		
280	v v	Xc PP							"				"	intermittent bleaching localized amber chalcedony vesicle fill	<	<		
285		Xc PP							"				"		<	<		
290		PP							"				"		<	<		
295		PP							"				"		<	<		
300																		

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Xo = opaline SiO_2

LOGGED BY KLK

	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
		Xo P							bright green				1-2% diss + vn py	270-345 Bud mixed Tuff + Fragmental (cont.)	.001	<	
305		P							"				"	305-345 w/ ↑ perv. bl wk ↓ perv. clay alt.	.24	<	
310		P							flesh + green				"	310-345 mixed peach & green bud	.012	<	
315		XK P							"				"	310-325 Strong druzy qtz ± pyrite vns	.007	<	
320		P							"				± 2 to 3% diss		<	.21	
325		XK P							"				+ vn py		.015	<	
330		XK P							"				"		.012	<	
335		XK P							"				"		.006	<	
40		XK P							"				"		.007	<	
45														TD FOR ROTARY THEN CORED TO			
50																	
55																	
60																	
65																	
70																	
75																	
80																	
85																	
90																	
95																	
00																	

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG
350	100		50/ CaCO3 fract VN	1-2% diss ± VN py	
	100				
360	100	10/ 90° VNS	50/ fract		
			25/ fract VN		
370	100	40/ 50	15/ 70 fract VN		
380	100	80/ 60?	5°/ fract VN 65		
390	100	20/ 20	70/ VN		
400	100	15/ VN	SLICKS/15	2-3% VN + diss py + local sulfate salts	
410		PIRO 70 fract	VN 40		65

DESCRIPTION

345' BEGAN CORING

345-346 Lightly bleached coarse pyroclastic w/ local calcite veining, heterolithic clasts up to 1.4" wide; prev. be w/ veinlets? nontronite? alt w/ microbreccia matrix prev. tuff: wkly grainy

346-349 fine pyroclastic similar to above w/ large clasts with again ~ 1/4" wide ↓ bleaching prev - wkly grainy w/ gradational contact into tuff

349-362 mottled lt green w/ lt int maroon weakly granular fine grained tuff, weakly fractured w/ nontronite or chlorite ± $CaCO_3$ fill

355-356 very weak pyroclastic

362-371.5 non, pale gray to maroon fine grained intrusive dike, mod strongly fractured w/ nontronite ± chlorite?(-nontronite?) + local $CaCO_3$ fract. fill upper contact sub gradational to ⊥ to core axis lower contact @ 45° to core axis

365.7 - 368.1 bleached lt green tuff, interbed, gradational contact

371.5 - 381.5 mottled lt gr maroon ± green weakly grainy fine grained tuff w/ few local lithics, weak chl green frags

381.5 - 389.5 medium to coarse pyroclastic - heterolithic prev smectite ± nontronite alt prev. be of clasts fine tuffaceous matrix supported clasts: mostly 1/4" to 1 1/2" wide

389.5 - 395.2 fine grained tuff, variegated lt white to green w/ poss relict flow banding weakly fractured w/ local white silicate ± local drusy qtz ± local $CaCO_3$ ± py

395.2 - 408.8 Brecciated fine grained tuff predom angular clasts weakly to mod strong prev. silicified - autobrecciated and mod fractured w/ local drusy vuggy qtz + white shimmer silicate + mod strong pyrite + poss. sulfates ± nontronite lt to med prev smectite / nontronite alt

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
345-380				.001	.1
380-355				.001	.1
355-360				.001	.1
360-365				.001	.1
365-370				.001	.1
370-375				.001	.1
375-380				.001	.1
380-385				.001	.1
385-390				.001	.1
390-395				.001	.1
395-400				.003	.1
400-405				.037	.25
405-410				.064	.26

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG
420	99		SiO2 vns 5°	±2% diss + VN py	
				2-3% diss + VN py ± sulfas	
	100		45 VNS fract	1-2% diss + VN py	
430	100	SS 5%	40 fract VN		
440	98	60 40	SS fract VN 40 VN 35		
450	100	60 Calc VN			
460	100		fract VNS 10 75		
470	97		12 Fem x VN		
480			hem VN 15		

DESCRIPTION

408.8 - 413.4 medium green - mottled lt green fine gr. to granular tuff, wkly fractured w/ smectite + pyrite + drusy qtz vns

413.4 - 418.8 tuff, brecciated fine grained tuff, weakly perv. silicified w/ strong drusy qtz - sulfide (py) vns w/ local assoc sericite alt + poss local sulfasalts

418.8 - 456.8 weakly bleached fine grained tuff w/ perv. smectite ± nontronite alt w/ local brecciation, moderately fractured w/ local microbrecciation + chlorite (nontronite) + local pyrite, weak local calcite veinlets

426 - 435.5 intermittent vesicles filled w/ dk green chlorite or nontronite w/ blue opal centers & locally opal is rimmed w/ pyrite

448 - 449.2 broken rubble

451.8 - 456.8 wk ↑ bleaching @ 452.5' ~1" SiO2 + pyrite vn

456.8 - 474.5 fine grained tuff weakly perv. silicified, moderately fractured w/ dk green (chl or nontronite) + local calcite + limonite fill, local weak bleaching

474.5 - 504.6 fine grained tuff, variegated smectite, nontronite green & orange-red oxidation weak intermittent bleaching, mod strong perv fracturing w/ limonite, calcite, smectite ± py poss w/ local SiO2, local weak brecciation

ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
410-415				.018	.16
415-420				.004	.16
420-425				.001	-.1
425-430				-.001	-.1
430-435				-.001	-.1
435-440				-.001	-.1
440-445				-.001	-.1
445-450				.001	-.1
450-455				.002	-.1
455-460				-.001	-.1
460-465				-.001	-.1
465-470				-.001	-.1
470-475				-.001	-.1
475-480				-.001	-.1

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	DESCRIPTION	ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
						480 - 504.6 Variegated fine grained tuff (continued)	480-485				.001	.10
							485-490				.005	.10
490							490-495				.001	.13
						504.6 - 507.5 FGT increased fracturing and local brecciation weak ↑ pervasive bleaching fracture fill w/ ↑ white clay + sericite + pyrite	495-500				.001	.1
500							500-505				.019	.1
						507.5 - 512.4 FGT increased intermittent bleaching w/ ~ 1' gouge zone w/ drusy qtz sulfide vein; increased veining throughout w/ $CaCO_3$ + sericite + druzy-qtz-sulfide ± marcasite. 510.5 calcite, sericite, marcasite vn ~ 1" wide	505-510				.027	.1
510					gouge		510-513				.019	.17
						512.4 - 516 Peach colored fine grained tuff w/ local green breccia clasts ↑ pervasive fine disseminated pyrite ↓ pervasive veining	513-516				.001	.1
							516-520				.043	.11
520						516 - 528.5 FGT - brecciated or Pyroclastic component mixed weak peach and mod green fine grained tuff locally brecciated to intermittent zones of pyroclastic very weakly fractured w/ pyrite ± sericite fill local flow banded textures	520-525				.001	.1
							525-530				.001	.1
530						528.5 - 558 gradational contact mixed lith to medium grained lapilli brecciated to coarse clasted pyroclastic breccia w/ angular to subrounded clasts lithologies w/ fine volcanic matrix to predom clast supported weakly fractured w/ $CaCO_3$ + pyrite ± montmorillonite fill	530-535				0.010	.33
						530-535 nothing peculiar - just poss Fe carbonate vns + assoc marcasite						
540						534 - 539 increased sulfide rich veining w/ poss sulfosalts	535-540				.002	.70
							540-545				.001	.1
550							545-550				.001	.1

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG
560	100, 100	68 A cast cont.	43, 48 calcite vn, 45 vn	±2% diss +vn py	
570	99		24/70 vn		82 calcite vn 65
580	100		fract vn/15		
590	100		45 vn, 45° fract		
600	100	65 flo			
610	100		60 fract vn		
620			fract vn 70/40		

DESCRIPTION

550-558 Laharic breccia to coarse pyroclastic continued (cont.)

558 - 573.3 clast supported, more pronounced coarse pyroclastic to laharic breccia mod strong sericite/nontronite alt locally local clasts are weakly bleached, local matrix is fine volcanic microbreccia very weakly fractured w/ $CaCO_3$, pyrite + nontronite alt

573.3 - 582.3 fine grained tuff, pur. green (mod str.) w/ weak peach mottling weak local brecciation weak fracturing w/ nontronite, $CaCO_3$ + py
581.7 - 582.3 calcite vein

582.3 - 607
Speckled vesicular tuff - all vesicles have been filled w/ white kaolinite or $CaCO_3$ or green nontronite alt clay; locally rimmed w/ pyrite w/ fine volcanic matrix, mottled medium peach + green alt weak local flow features, weakly fractured w/ pyrite ± calcite + nontronite alt

607 - 637 fine grained tuff mod to moderately strongly bleached w/ weak peach alt mod to fractured w/ strong nontronite?/chlorite + pyrite ± sericite fill

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
550-555				<.001	<.1
555-560				<.001	<.1
560-565				<.001	<.1
565-570				<.001	<.1
570-575				.002	<.1
575-580				.001	<.1
580-585				.003	<.1
585-590				<.001	<.1
590-595				<.001	<.1
595-600				.002	<.1
600-605				.007	.29
605-610				<.001	.23
610-615				<.001	<.10
615-620				<.001	<.10

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	DESCRIPTION	Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
						620 - 637 Bleached fine grained tuff (cont.) Buff to tint peach coloration weak fracturing w/ hematite + chlorite? or nontronite	620-625				<	<
							625-630				<	<
630							630-635				<	<
						637 - 647 Speckled vesicular fine gr. tuff mottled peach w/ local weak grn alt + vesicles perv. filled w/ white clay to $CaCO_3$ + grn w/ fine volcanic matrix pervasively pinky fractured w/ calcite + pyrite ± nontronite alt	635-640				<	<
640							640-645				<	<
						647 - 663 Mod Bleached Buff fine grained tuff mod perv. fractured w/ grn alt + local $CaCO_3$ ± hematite ± pyrite contact w/ specular tuff is quite abrupt to weakly gradational	645-650				<	<
650							650-655				<	<
							655-660				<	<
660						663 - 674 Dike/Sill contact is subtle and appears to be perpendicular to core axis Dark maroon gray - unaltered w/ weak fracturing w/ hematite + $CaCO_3$ ± nontronite? chl?	660-665				<	<
							665-670				<	<
670						674 - 718 Bleached fine grained tuff @ above ; becomes more flow banded w/ depth perv. possible to pseudo flow banding throughout pervasive buff to weak peach coloration mod perv. fractured w/ pyrite, nontronite ± silicate + $CaCO_3$ + local grn duck butter silicate or grn waxy clay	670-675				<	<
							675-680				<	<
680							680-685				<	<
						683-689 ↑ fracturing with strong pyrite + grn duck butter silicate or waxy clay + $CaCO_3$	685-690				.001	.23
690												

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	DESCRIPTION
700	100	10° / 10°	15 / 10° fract	2% diss + VN py; ± 3% diss + VN py		690 - 718 Fine Grained to flow banded tuff continued @ above
		3° / py VN				694 - 698 poss wk to mod pervasive silicification wk ↑ finely diss + vn pyrite
	100		5-10° fract VNS	2-3% diss + VN py		698 - 700 Intermittently brecciated w/ weak ↑ bleaching, poss fault/ brecciation wk ↑ sericite + pyrite ± $CaCO_3$
710	100		py / sericite VN			700 - 718 predom fine grained tuff w/ ↓ flow banding, wk ↑ pervasive bleaching
						708 - 715.5 w/ weak ↑ drusy qtz, sericite pyrite ± $CaCO_3$ + local marcasite fractures
720	78	60° / sery py VNS	SS fract			718 - 732 Brecciated locally, milled fine grained tuff, weakly pervasively bleached w/ weak green + bleach coloration, weak to mod fracturing w/ pyrite, sericite, drusy qtz ± local rhodochrosite ± $CaCO_3$ fill
730	100	60° / py VN	31 / fract			719 - 724 weakly to mod silicified
740	100		SS / A VN; 70 $CaCO_3$ VN	± 3% diss + VN py + marca; 2-3% diss + VN py		732 - 814 Fine grained tuff weakly pervasively bleached, mottled pale hard green - intermittently brecciated to locally rounded milled frags. weak to moderate fracturing w/ pyrite, local drusy qtz, local sericite ± local $CaCO_3$ vns
						735 - 741 zone of strong brecciation poss. weakly silicified w/ local blue opaline to chalcedonic fill w/ intermittent vuggy drusy qtz - marcasite? ± sericite veins
750	99		15 / py VNS			
760			fract VNS			

ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
690-695				<	<
695-700				.066	<
700-705				.001	<
705-710				.015	<
710-715				.035	1.09
715-720					
720-725				.002	<
725-730				.003	<
730-735				.002	<
735-740				.042	<
740-745				.062	.39
745-750				.008	<
750-755				.002	<
755-760				.001	<

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	DESCRIPTION	ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
770	99	fract VNS 50 / 80	15/60 fract VNS	±2% diss +VN py		760 - 814 fine grained tuff continued mottled peach, lt green intermittently brecciated w/ mod to mod strong rilled clasts	760-765				.001	<
						764 - 773 strongly rilled FGT breccia clasts are strongly rounded	765-770				.001	<
780	100		50 Δ VN	2-3% diss +VN ± local buck shot py		760-814 pervasively brecciated w/ mod strongly rilled clasts throughout, weakly pervasively silicified, locally shot w/ buckshot or pyrite	770-775				.004	<
			VN fract 53 40				775-780				.262 .424 .347	<
790	100		fract VNS 50 / 35			772-777 moderately veined w/ pyrite w/ oxidation rim local 2" breccia seams w/ microbreccia matrix local pyrite veins rim brecciation	780-785				.093	.26
							785-790				.01	<
800	100		py VNS 15 / 40				790-795				.001	<
							795-800				.002	<
810	100		fract VN 60 20 py VN	±3% diss +VN + buck shot py		800 - 820 pervasively silicified w/ intrabed local brecciation increased pervasive fracturing w/ pyrite ± local sericite + SiO_2 + poss marcasite + poss tan or orange alt clay weak ↓ rilled frags significant increase in buckshot pyrite	800-805				.011	<
							805-810				.046	<
							810-815				.053	.16
820	100		fract VNS 120 65	±2% diss +VN py		814 - 880.5 Buff to weakly peach fine grained tuff pervasively brecciated fractured w/ green prehnite? (chlorite?) + local $CaCO_3$ + pyrite ± poss sericite alt. weak ↓ alt throughout weak local buckshot pyrite, poss relict flow banding locally?	815-820				.120	<
							820-825				<	<
830			40 fract VNS				825-830				<	<

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	DESCRIPTION	ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
	100		fract VN 5° / 55	±2% diss + VN + back shot py		830 - 880.5 weakly altered fine grained tuff w/ pervasive fracturing, continued	830-835				<	<
840	100	45 flat	py VNs 60 50				835-840				.003	<
							840-845				.001	<
							845-850				.006	<
850	100		py VN 10 / 80 VN	±3% diss + VN py		853.5 - 870.5 fine grained tuff w/ increased fracturing, veining and micro to breccia veins filled with: $CaCO_3$, pyrite, sericite, nontronite (?), local SiO_2 and local pass clay alt. (+ green duck butter) local pass pos drilling opportunities (pass local marcasite	850-855				<	<
							855-860				.126 .196 .126	.20
860	100		15 VN / 55 fract VN				860-865				.003	<
870							865-870				.012	.39
	100		10 / 65 fract VNs	2% + diss + VN + back shot py			870-875				.009	.10
880							875-880.5				.001	.13
	100		fract 40 / 70	3-4% diss + VN py + blebs + massive site		880.5 - 892 Volcanic breccia - heterolithic hydrothermal, pervasively well silicified 3-4 stages of brecciation matrix supported w/ SiO_2 + sericite + drusy vuggy quartz + local marcasite & pos local kaolinite	880.5-887				.041	.10
890			py sericite VN				887-892				.247	.27
	100	VN 35	py VN 40 / 65 shear	2-3% diss + VN py + local back shot		892 - 937 fine grained tuff weak pervasive peach to buff alteration w/ weaker spotted green - predominantly fractures w/ predom pyrite, sericite ± $CaCO_3$ fill. Intermittent silicious brecciation (± 2 stages) w/ local microbreccia veins	892-897				.007	.13
900							897-902				.008	-.1

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	DESCRIPTION
	99		55 / 70	±3% diss + vn py		900-937 fine grained tuff continued @ above
						904-909 mod to strong brecciation, mod well silicified ~ 2+ stages brecciation poss. hydrothermal w/ strong SiO_2 matrix w/ local kaolinite concentrations @ matrix, lower contact 35° to core axis
910	100		15° / 60 vns py sericite		35	
						919.5-922 zone mod strong brecciation up to 1' wide, mod well silicified w/ clay + pyrite rich fracture seams
920	100		25 vn	±2% diss + vn py	50 / 70	
			frost vns 40 / 65			935 ↑ veining @ 25-30° to core axis
930	100					
			25	2-3% diss + vn py + local marcasite		937-982.5 weakly speckled fine grained tuff due to preferential clay alt. of feld spar phenos. mottled peach and green (→ along fractures) weak to mod perv. bleached moderately perv. fractured w/ pale green and white soft wavy clay + local fine shimmer sericite & pyrite + local marcasite w/ weak greenish alteration envelopes
940	100		60 frost vns 80 / 15			
						938' increased fracture veining w/ strong green wavy clay or dull buff sericite + pyrite
950	100		30 / 90 py-clay vns 85			
			frost vns 65 / 40			945-945.5, 946-947, 951.5-955, 964-965.7: Brecciated zones - predom clast supported w/ matrix fill: SiO_2 ± $CaCO_3$ ± sericite ± kaolinite + pyrite ± local marcasite ⟹ also w/in related fractures
960	100					
970			33 / 85 vns			

ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
902-907				.001	-.1
907-912				.004	-.1
912-917				.002	-.1
917-922				.002	-.1
922-927				.01	-.1
927-932				.026	-.1
932-937				-.001	-.1
937-942				.006	-.1
942-947				-.001	-.1
947-952				.002	-.1
952-957				.025	-.1
957-962				.02	.13
962-967				.009	-.1
967-972				.011	-.1

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	DESCRIPTION
	100		VN 15/ 25 fract	2-3% diss + VN py + mar oxide		970-982.5 Fine grained weakly speckled tuff (continued) 974-982.5 weak increase of perv. weak brecciation, fracturing and veining w/ major predom. silicification, zone gradational contact w/ below core axis
980	100			±2% diss + VN py		982.5-991.5 light sage green fine grained tuff - finer than the above, more densely welded and strongly fractured w/ wide brecciation zones. Fracture fill w/ predom. lt green waxy clay + $CaCO_3$ + local pyrite, lower contact w/ below @ 30° to core axis
990	100		30 65 fract VNS	±2% diss + VN py		SOUTH RIDGE FAULT BRECCIA: 991.5-994 Heterolithic tuff breccia - perv. peach coloration, weakly silicified, strongly fractured w/ lt green waxy clay, local $CaCO_3$ + SiO_2 ± pyrite, strong fine qtz stockwork ← riddled, local microbrecc.
1000	99		Fract 60 25 VN	±2% diss + VN py		SOUTH RIDGE FAULT BRECCIA: 994-1001 Bleached white to light gray fault breccia w/ - mod perv. silicification ± stop brecciation intermittent gouge zones, local $CaCO_3$ matrix, contact ~ 80 to core axis
1010	100		30 Fract VNS 40 65	1-2% diss + VN py		1001-1018 White bleached fine grained densely welded fine grained tuff (DOZER) weakly to moderately fractured w/ local healed breccia zones, fractures w/ veins filled predom. w/ $CaCO_3$ + pyrite; 1010-1015 strong fracturing to broken rubble
1020	100		40 Fract VN ±15° fract	3-4% diss + VN py		1018-1022 Peach colored fine grained breccia weakly perv. silicified 1021-1022 strongly broken rubble, fractures w/ waxy clay + py ± $CaCO_3$
1030	100		55 70 15° Fract VNS VN 45	1-2% diss + VN py		1022-1067 Variably bleached pale orange tan buff and weak green fine grained welded Dozer tuff w/ pervasive rehealed breccia zones ± local $CaCO_3$ and peach matrix; 1041.5-1042 breccia zone w/ 1"-1½" $CaCO_3$ vn
1040						

ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
972-977				<.001	<.1
977-982				<.001	<.1
982-987				<.001	<.1
987-992				<.001	<.1
992-997				<.001	<.1
997-1002				<.001	<.1
1002-1007				<.001	<.1
1007-1012				<.001	<.1
1012-1017				<.001	<.1
1017-1022				<.001	<.1
1022-1027				<.001	<.1
1027-1032				<	<
1032-1037				<	<
1037-1042				<	<

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERAL-IZATION	GRAPHIC LOG	DESCRIPTION
	100		85 CaCO3 VN	1-2% diss + VN py		1060-1067 Dozer - fine grained tuff - welded - intermittent rehealed breccia same @ above.
1050	100		Δ VN 45 15 VN			1042-1051 decreased rehealed breccia component 1051-1062 increased rehealed Δ breccia comp.
1060	90		±5° VN 5			
		45 foliat	Shear VN 20 Shear 10	±3-4% diss + VN py		1065.5-1067 fault / breccia shear zone - 50° to core axis contact w/ mesozoic carbonaceous ✓xs. 1067-1071 Black, siliceous strongly foliated mesozoic shale mod carbonaceous locally fractured w/ SiO2 boudins local microbrecciation fine pyrite veinlets paralleling foliation weak silicification locally along fractures.
1071						TD 1071'

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
1042-1047				.008	.12
1047-1052				.012	<
1052-1057				.001	<
1057-1062				<	<
1062-1067				.016	<
1067-1071				<	<

RL-75

Recovery Footage	% Recovery	Sample Interval	Lithology
401-411.5	100%	400-405	399-409.5 Brecciated smectite w/ FGT
		405-410	
411.5-421.5	99%	410-415	409.5-416 green FGT
		415-420	416-419 FGT w/ strong dw 249 tr sulfide w/ ∆
421.5-431.5	100%	420-425	
		425-430	419-456.8 weak Bleached FGT - w/ per smectite w/ local brecciation (427-429 brecciat w/ local opaline SiO2
431.5-441.5	100%	430-435	
		435-440	
441.5-452	99%	440-445	
		445-450	456.8-474.5 silicified intermittent bleached FGT, deep green fractures w/ intermittent gray
452-462	100% +	450-455	
		455-460	
462-472	100%	460-465	
		465-470	474.5-504.6 FGT verigated smectite green peach & bleached fracture fill w/ white clay + pyrite
472-482	97%	470-475	
		475-480	
482-492	100% +	480-485	
		485-490	
492-502	100%	490-495	504.6-506.3 FGT w/ ↑ bl ↑ fract w/ white clay + pyrite
		495-500	
502-512	99%	500-505	506.8-512.4 FGT green intermittently bl
		505-510	506.8-509.5 ↑ clay ↑ dw 249 qtz py vns
512-522	100%	510-513	
		513-516	
522-532	100%	516-520	512.4-516 FGT predom peach colored strong py % v. fine diss
		520-525	
532-542	100%	525-530	
		530-535	
542-552	100%	535-540	516-519 Flow banded tuff
		540-545	519-558 FGT green smectite ± montmorite alt local brecciation fract. fill w/ pyrite ± white clay + nont
552-553 2.3	100%	545-550	
		550-555	
553-562 5.7	100%	555-560	
		560-565	558-573.5 pyroclastic - smectite montmorite alt poss brecciated locally bleached
562-572 2.4/8	100%	565-570	

RL-75

Footage Recovery	% RECOVERY	Sample Interval	Lithology
572 - 582	99%	570-575 575-580	573.5 - 581.7 FGT mottled green w/ wk bleaching
582 - 592 from 592 recovery to end of box in footage 6.1	100%	580-585 585-590 590-595 595-600	581.7 - 582.2 calcite vein 582.2 - 607 wkly green speckled FG w/ fine vesiculars w/ white clay to $CaCO_3$ fill mottled green & peach
592 - 602	100%		
602 - 612	100%		607 - 637 bl. > gr. Fgt ± tr py vns
612 - 622	100%		637 - 647: speckl. vesic. fgt.
622 - 632	100%		647 - 662 bl. > gr. Fgt as above 6
632 - 642	100%		~ 662 - 674 TS
642 - 652	100%		674 - 718 bl. fgt as above becomes more banded below
652 - 662	100%		~ 682 - 718: ± bl. fgt ± banding
662 - 672	100%		- fault? bx? ~ 699-700
672 - 682	100%		~ 718 - 732 drusy qtz ± bxn in pal grn to bl. fgt.
682 - 692	100%	*	~ 732 - ~ 814 ± bx'd ± bl to pale green wk ly altd
692 - 702	100%		814 - 880.5 fgt w
702 - 712	100%	***	880.5 - 892 drusy bx
712 - 722	100%		892 - 926: mod altd, bl. & fracd fgt ± minor bx zones
722 - 732	98%		
732 - 742	100%		
742 - 752	100%		

RL-75

Footage Recovery	% Recovery	Sample Interval	Lithology
752 - 762	99%		
762 - 772	99%		
772 - 782	100%		
782 - 792	100%		
792 - 802	100%		
802 - 812	100%		
812 - 822	100%		
822 - 832	100%		
832 - 842	100%		
842 - 852			
852 - 862			
862 - 872	100%		
872 - 882	100%		
882 - 892	100%		
892 - 902	100%		
902 - 912	99%		
912 - 922	100%		
- 932	?	932 - 937	R
		937 - 942	
- 942	100%	~~942~~	

RL-75C cont'd

Footage	% Rec.	Sample	Lith
-952	100	942-947	994? 926 - ~~935~~ bl. → peach
		947-952	fgt w/ mod frax.
-962	100	952-957	frax usually w/ pale
		957-962	green & white soft waxy clay?
-972	100	962-967	± py & marc. & green
		967-972	altn. envelopes
-982	100	972-977	- Stronger frax zones
		977-982	@ ~935 & 938 @
-992	100	982-987	~ 25-30° CA
		987-992	
-1002	100		- minor bx'n @ ~ 947, 952 and 954'
-1012	99		SRF? - becoming broken ~98-
			- flt bx 994- ~~998~~ 100 80° CA
-1022	100		- broken 1001 — 1002.5
-1032	100		- 1001 — var. bl. pale green/tan Dozer w/ healed bx zones ± cc and peach matrix
-1042	100		- minor flt + cc @ 1041
~1052	100		- " " @ 1045
			- " " @ 1056.5
-1062	100		- Flt/shear @ ~~1065~~ 1065.5 - 1067
		-1067	
-1071 TD	98	1067-1071	- Black siliceous foliated rk @ 1067 - 1071

RL-82

Stage Recovery	% Recovery	Sample Interval	Lithology
463 - 472			
~~453 - 462~~	100%	- 463 - 468	453 - 473.7 Bleached Speckled Tuff, pyrite veins ⊥ to foliation, green gray clay or pyrite filling speckle vesicle
472 - 482		- 468 - 473	
~~462 - 472~~	99%	- 473 - 478	
482 - 492		- 478 - 483	
~~472 - 482~~	97%	- 483 - 488	473.7 - 501.5 Flow Banded FGT mottled lt green to predominated bleached pea coloration fractures filled w/ blue green to green waxy clay or pyrite
492 - 502		- 488 - 493	
~~482 - 492~~	100%	- 493 - 498	
502 - 512		- 498 - 501.5	
~~492 - 502~~	100%	- 501.5 - 502	501.5 - 502 Breccia matrix rich - chalcedonic + poss w/ marcasite
512 - 522		- 502 - 507	
~~502 - 512~~	98%	- 507 - 512	
522 - 532		502 - 507	502 - 524 Flow banded FGT predominate peach color - wk bl w/ green waxy clay filled fractures + pyrite ± local soft white clay local 2" chalc + druzy qtz + pyrite vns + green ± white clay veins ⊥ to foliation
~~512 - 522~~	100%	507 - 512	
532 - 542		512 - 517	
~~522 - 532~~	100%	517 - 521	
542 - 5		521 - 524	
~~532 - 542~~	100%	524 - 529	(512 - 524 ↓ fract. wk ↑ bl locally zoned Δia clasts)
		529 - 534	
542 - 548 end of box	99%	534 - 539	
		539 - 544	524 - 569 Tahawus Δia - locally brecciated heterolithic clasts - bleach to peach col micro Δia matrix w/ mottling of nontronite alt weak pyrite ± white clay fract ↑ bl w/ depth ; predom pea
548 - 550.5	100% +	544 - 549	
		+ 549 - 554	
550.5 - 561	100%	554 - 559	
		559 - 564	
561 - 571	100%	564 - 569	
		569 - 574	569 - 628.6 → Real # Tuff breccia pers. peach - flesh color pers. bl poss wk silicific 569 - 575 cemented fract w/ druzy qtz + pyrite ; local white clay + chalcedony
571 - 581	100%	574 - 579	
		579 - 584	
581 - 592 3.3' from	98% +	584 - 589	
		589 - 594	
592 - 602	100%	594 - 599	
		599 - 604	
602 - 609 to end of box	100%	604 - 609	
		609 - 614	
609		614 - 619	
		619 -	

RL-82 (continued)

Stage recovery	% RECOVERY
619 - 630	73%
630 - 632	70%
632 - 642	97%
642 - 652	99%
652 - 659.5	100%
659.5 - 669.5	94%
669.5 - 679.5	100%
679.5 - 681	100%
681 - 691.5	100%
691.5 - 700	100%
700 - 709	94%
709 - 712	100%
712 - 716	95%
716 - 721	100%
721 - 728	93%
728 - 737.5	98%
737.5 - 747.5	100%
747.5 - 754.5	97%
754.5 - 760	100%
760 - 767.5	9%

Sample Interval
629 - 634
634 - 639
639 - 644
644 - 649
649 - 654
654 - 659
659 - 664
664 - 669
669 - 674
674 - 677
677 - 682
682 - 685
685 - 688
688 - 693
693 - 698
698 - 703
703 - 708
708 - 713
713 - 718
718 - 723
723 - 728
728 - 733
733 - 738
738 - 743
743 - 748
748 - 753
753 - 758
758 - 763
763 - 768
768 - 773
773 - 778
778 - 783
783 - 788

Lithology

628.6 - 649.2
predom flow banded tuff Dia - locally pink peach color + bleached with clasts
fractures filled w/ drusy qtz + pyrite w/ white clay

649.2 - 666
Peach + bl wh. flow banded tuff

666 - 677
buff w/ stripes of green FGT w/ pink Bl

677 - 688 brecciated
weak peach buff FGT
↑ arg. clay + bl w/ strong open spaced vug w/ druzy qtz + py + wh cla fill → + chalcedony

688 - 788
Peach + bleached FGT locally grainy green along fractures
fract. filled w/ white clay, pyrite, green clay, local drusy qtz vns
699-703 brecciated w/ 9-10" void

duck butter

RL-82" continued

FOOTAGE RECOVERY	% RECOVERY	SAMPLE INTERVAL	LITHOLOGY
767.5 - 772	100%	788 - 793	788 - 801.6 Poss upper SRF zone - pear- brecciated tuff local 3-4% py. VNs + diss much broken rubble
772 - 782	90%	793 - 798	
782 - 788	87%	798 - 801.6	
788 - 798	56%	801.6 - 807	
798 - 800.5	68%	807 - 812	801.6 - 822 Green smectite alt SRF gouge - breccia Strong green clay alt local bit to mod calci
800.5 - 802	98%	812 - 817	
802 - 808.5	95%	817 - 822	
808.5 - 815	14%	+ 822 - 827	
815 - 820	91%	827 - 832	
820 - 822	53%	832 - 837	822 - 855 Clast supported bleac and clay alt breccia w/ silicic (gray matrix silicic) 2-3 stages alation w/ local clay gouge zones
822 - 824	90%	837 - 842	
824 - 826	10%	842 - 847	
826 - 827	100%	847 - 852	
827 - 833.5 (3' were tricored)	57%	852 - 857	
		857 - 862	
833.5 - 842	87%	862 - 867	855 - 867.5 Bleached fractu local alatid SiO2 + SGT fract filled w/ drusy qtz + pyrite ± CaCO3
842 - 846	20%	867 - 872	
846 - 852	58%	872 - 877	
852 - 857	72%	877 - 882	
857 - 862	100%	882 - 887	
862 - 872	100%	887 - 892	867.5 - 890 Classic green - sa Dozer welded tuff
872 - 882	100%	892 - 897	
882 - 885	73%	897 - 902	
885 - 892	92%	+ 902 - 907	
892 - 902	100% ++	907 - 912	890 - 912 Bleached ¿ locall alatid SGT well fractured w/ pyrite, green clay + orange alt rim fill + local SiO2 ± C
902 - 912	100%	912 - 917	
912 - 922	100%	917 - 922	
922 - 932	100%	922 - 927	912 - 946.4 classic Dozer
932 - 942	100%	927 - 932	
942 - 950	97%	932 - 937	
950 - 960	100%	937 - 942	946.4 - 964 Bleached Dozer well fractured w/ orange alt rim, green clay + pyrite fill
		942 - 947	
		947 - 952	
		952 - 957	
		957 - 962	

RL-82 continued

STAGE RECOVERY	% RECOVERY	SAMPLE INTERVAL	LITHOLOGY
960 - 970	100%	962 - 967	964 - TD.
970 - 980	100%	967 - 972	DOZER
980 - 990	100%	972 - 977	
990 - 1000.5	100%	977 - 982	
1000.5 - 1011	100%	982 - 987	
1011 - 1021	100%	987 - 992	
1021 - 1031.5	100%	992 - 995.5	
1031.5 - 1041.5	100%	995.5 - 1000.5	
1041.5 - 1045	100%	1000.5 - 1006	
1045 - 1051.5	70% +	1006 - 1011	
1051.5 - 1060	100%	1011 - 1016	
1060 - 1065	99%	1016 - 1021	
T.D.		1021 - 1026	
		# 1026 - 1031	
		1031 - 1036	
		1036 - 1041	
		1041 - 1046	
		1046 - 1051	
		1051 - 1056	
		1056 - 1061	
		1061 - 1065	
		TD.	

NEVADA GSI

MAY 07 1990

GEOCHEMICAL ANALYSIS REPORT

CORRECTED
May 4, 1990

Mr. Nate Brewer
Lac Minerals
1395 Greg Street #107
Sparks, Nv. 89431

Number of Samples: 196
Project: URBD-79014
GSI Number: 6992
Analysis: Fire Assay for Gold and Silver, with an A.A. finish.

	Sample I.D.			Au o/t	Ag o/t
1	RL-74	0	5	<.001	<.10
2	RL-74	5	10	<.001	<.10
3	RL-74	10	15	<.001	<.10
4	RL-74	15	20	<.001	<.10
5	RL-74	20	25	<.001	<.10
6	RL-74	25	30	<.001	<.10
7	RL-74	30	35	<.001	<.10
8	RL-74	35	40	<.001	<.10
9	RL-74	40	45	<.001	<.10
10	RL-74	45	50	<.001	<.10
11	RL-74	50	55	<.001	<.10
12	RL-74	55	60	<.001	<.10
13	RL-74	60	65	<.001	0.12
14	RL-74	65	70	<.001	<.10
15	RL-74	70	75	<.001	<.10
16	RL-74	75	80	<.001	<.10
17	RL-74	80	85	<.001	<.10
18	RL-74	85	90	<.001	0.13
19	RL-74	90	95	<.001	<.10
20	RL-74	95	100	<.001	<.10
21	RL-74	100	105	<.001	<.10
22	RL-74	105	110	<.001	<.10
23	RL-74	110	115	<.001	<.10
24	RL-74	115	120	<.001	<.10
25	RL-74	120	125	<.001	<.10
26	RL-74	125	130	<.001	<.10
27	RL-74	130	135	<.001	<.10
28	RL-74	135	140	<.001	<.10
29	RL-74	140	145	0.013	<.10
30	RL-74	145	150	0.006	<.10
31	RL-74	150	155	0.002	<.10
32	RL-74	155	160	0.001	<.10
33	RL-74	160	165	<.001	<.10

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	Sample I.D.			Au o/t	Ag o/t
34	RL-74	165	170	0.003	<.10
35	RL-74	170	175	<.001	<.10
36	RL-74	175	180	<.001	<.10
37	RL-74	180	185	<.001	0.11
38	RL-74	185	190	<.001	<.10
39	RL-74	190	195	<.001	<.10
40	RL-74	195	200	<.001	<.10
41	RL-74	200	205	0.001	<.10
42	RL-74	205	210	<.001	<.10
43	RL-74	210	215	<.001	<.10
44	RL-74	215	220	<.001	<.10
45	RL-74	220	225	<.001	<.10
46	RL-74	225	230	<.001	<.10
47	RL-74	230	235	<.001	<.10
48	RL-74	235	240	0.003	<.10
49	RL-74	240	245	0.002	<.10
50	RL-74	245	250	<.001	<.10
51	RL-74	250	255	<.001	0.13
52	RL-74	255	260	<.001	<.10
53	RL-74	260	265	0.001	<.10
54	RL-74	265	270	<.001	<.10
55	RL-74	270	275	0.015	<.10
56	RL-74	275	280	0.004	<.10
57	RL-74	280	285	0.003	<.10
58	RL-74	285	290	0.002	<.10
59	RL-74	290	295	0.002	<.10
60	RL-74	295	300	0.003	<.10
61	RL-74	300	305	0.003	<.10
62	RL-74	305	310	0.002	<.10
63	RL-74	310	315	0.004	<.10
64	RL-74	315	320	0.003	<.10
65	RL-74	320	325	0.095	<.10
66	RL-74	325	330	0.002	<.10
67	RL-74	330	335	0.001	<.10
68	RL-74	335	340	0.003	<.10
69	RL-74	340	345	0.003	<.10
70	RL-74	345	350	0.004	<.10
71	RL-74	350	355	0.006	<.10
72	RL-74	355	360	0.003	<.10
73	RL-74	360	365	0.003	<.10
74	RL-74	365	370	0.001	<.10
75	RL-74	370	375	0.001	<.10
76	RL-74	375	380	0.001	<.10
77	RL-74	380	385	0.001	<.10
78	RL-74	385	390	0.002	<.10
79	RL-74	390	395	0.002	<.10
80	RL-74	395	400	0.001	<.10
81	RL-74	400	405	0.002	<.10

	Sample I.D.			Au o/t	Ag o/t
82	RL-74	405	410	0.001	<.10
83	RL-74	410	415	0.003	<.10
84	RL-74	415	420	0.053	<.10
85	RL-74	420	425	0.025	<.10
86	RL-74	425	430	0.002	<.10
87	RL-74	430	435	0.002	<.10
88	RL-74	435	440	0.001	<.10
89	RL-74	440	445	0.002	<.10
90	RL-74	445	450	<.001	<.10
91	RL-74	450	455	0.001	<.10
92	RL-74	455	460	0.021	<.10
93	RL-74	460	465	0.006	<.10
94	RL-74	465	470	0.001	<.10
95	RL-74	470	475	0.002	<.10
96	RL-74	475	480	0.002	<.10
97	RL-74	480	485	0.005	<.10
98	RL-74	485	490	0.001	<.10
99	RL-74	490	495	0.004	<.10
100	RL-74	495	500	0.012	0.11
101	RL-74	500	505	0.007	<.10
102	RL-74	505	510	0.002	<.10
103	RL-74	510	515	0.003	0.28
104	RL-74	515	520	0.003	<.10
105	RL-74	520	525	0.001	<.10
106	RL-74	525	530	0.079	0.44
107	RL-74	530	535	0.004	<.10
108	RL-74	535	540	0.003	0.16
109	RL-74	540	545	0.002	<.10
110	RL-74	545	550	0.008	<.10
111	RL-74	550	555	0.001	<.10
112	RL-74	555	560	0.001	<.10
113	RL-74	560	565	0.001	<.10
114	RL-74	565	570	0.002	<.10
115	RL-74	570	575	0.002	<.10
116	RL-74	575	580	0.004	<.10
117	RL-74	580	585	0.005	<.10
118	RL-74	585	590	0.004	<.10
119	RL-74	590	595	0.001	<.10
120	RL-74	595	600	0.002	<.10
121	RL-74	600	605	0.002	<.10
122	RL-74	605	610	0.002	<.10
123	RL-74	610	615	0.002	<.10
124	RL-74	615	620	<.001	<.10
125	RL-74	620	625	0.001	<.10
126	RL-74	625	630	0.005	<.10
127	RL-74	630	635	0.008	<.10
128	RL-74	635	640	0.021	<.10
129	RL-74	640	645	0.016	<.10

	Sample I.D.			Au o/t	Ag o/t
130	RL-74	645	650	0.012	<.10
131	RL-74	650	655	0.015	<.10
132	RL-74	655	660	0.010	<.10
133	RL-74	660	665	0.010	<.10
134	RL-74	665	670	0.005	<.10
135	RL-74	670	675	0.003	<.10
136	RL-74	675	680	0.011	<.10
137	RL-74	680	685	0.006	<.10
138	RL-74	685	690	0.005	<.10
139	RL-74	690	695	0.005	<.10
140	RL-74	695	700	0.007	<.10
141	RL-74	700	705	0.003	<.10
142	RL-74	705	710	0.029	<.10
143	RL-74	710	715	0.022	<.10
144	RL-74	715	720	0.009	<.10
145	RL-74	720	725	0.006	<.10
146	RL-74	725	730	0.008	<.10
147	RL-74	730	735	0.005	<.10
148	RL-74	735	740	0.005	<.10
149	RL-74	740	745	0.003	<.10
150	RL-74	745	750	0.003	0.31
151	RL-74	750	755	0.002	<.10
152	RL-75	0	5	0.002	<.10
153	RL-75	5	10	0.003	<.10
154	RL-75	10	15	0.001	<.10
155	RL-75	15	20	0.001	<.10
156	RL-75	20	25	0.001	<.10
157	RL-75	25	30	<.001	<.10
158	RL-75	30	35	<.001	<.10
159	RL-75	35	40	0.002	<.10
160	RL-75	40	45	0.001	<.10
161	RL-75	45	50	0.001	<.10
162	RL-75	50	55	0.001	<.10
163	RL-75	55	60	0.001	<.10
164	RL-75	60	65	0.001	<.10
165	RL-75	65	70	0.002	<.10
166	RL-75	70	75	0.001	<.10
167	RL-75	75	80	<.001	<.10
168	RL-75	80	85	0.001	<.10
169	RL-75	85	90	0.001	<.10
170	RL-75	90	95	0.003	<.10
171	RL-75	95	100	0.010	0.13
172	RL-75	100	105	<.001	<.10
173	RL-75	105	110	0.001	<.10
174	RL-75	110	115	<.001	<.10
175	RL-75	115	120	<.001	0.16
176	RL-75	120	125	<.001	0.13
177	RL-75	125	130	<.001	<.10

	Sample I.D.			Au o/t	Ag o/t
178	RL-75	130	135	0.001	<.10
179	RL-75	135	140	<.001	0.15
180	RL-75	140	145	<.001	<.10
181	RL-75	145	150	<.001	<.10
182	RL-75	150	155	<.001	<.10
183	RL-75	155	160	<.001	<.10
184	RL-75	160	165	<.001	<.10
185	RL-75	165	170	<.001	<.10
186	RL-75	170	175	0.001	<.10
187	RL-75	175	180	0.001	<.10
188	RL-75	180	185	0.001	<.10
189	RL-75	185	190	<.001	<.10
190	RL-75	190	195	<.001	<.10
191	RL-75	195	200	0.001	<.10
192	RL-75	200	205	0.001	<.10
193	RL-75	205	210	0.001	<.10
194	RL-75	210	215	<.001	<.10
195	RL-75	215	220	0.001	<.10
196	RL-75	220	225	<.001	<.10

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This report reviewed and approved by:

Richard A. Grondin

Richard Grondin, Operations Manager

	Sample I.D.			Au o/t	Ag o/t
178	RL-75	130	135	0.001	<.10
179	RL-75	135	140	<.001	0.15
180	RL-75	140	145	<.001	<.10
181	RL-75	145	150	<.001	<.10
182	RL-75	150	155	<.001	<.10
183	RL-75	155	160	<.001	<.10
184	RL-75	160	165	<.001	<.10
185	RL-75	165	170	<.001	<.10
186	RL-75	170	175	0.001	<.10
187	RL-75	175	180	0.001	<.10
188	RL-75	180	185	0.001	<.10
189	RL-75	185	190	<.001	<.10
190	RL-75	190	195	<.001	<.10
191	RL-75	195	200	0.001	<.10
192	RL-75	200	205	0.001	<.10
193	RL-75	205	210	0.001	<.10
194	RL-75	210	215	<.001	<.10
195	RL-75	215	220	0.001	<.10
196	RL-75	220	225	<.001	<.10

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This report reviewed and approved by:

Richard A. Grondin

Richard Grondin, Operations Manager

NEVADA GSI

GEOCHEMICAL ANALYSIS REPORT

May 3, 1990

Mr. Nate Brewer
Lac Minerals
1395 Greg Street #107
Sparks, Nv 89431

Number of Samples: 24
GSI Number: 7057
Analysis: Fire Assay for Gold and Silver, with an A.A. finish.

	Sample I.D.			Au o/t	Ag o/t
1	RL-75	225	230	<.001	<.10
2	RL-75	230	235	<.001	0.12
3	RL-75	235	240	<.001	<.10
4	RL-75	240	245	<.001	0.16
5	RL-75	245	250	<.001	<.10
6	RL-75	250	255	<.001	<.10
7	RL-75	255	260	<.001	<.10
8	RL-75	260	265	<.001	<.10
9	RL-75	265	270	<.001	<.10
10	RL-75	270	275	<.001	<.10
11	RL-75	275	280	<.001	<.10
12	RL-75	280	285	<.001	<.10
13	RL-75	285	290	<.001	<.10
14	RL-75	290	295	<.001	<.10
15	RL-75	295	300	<.001	<.10
16	RL-75	300	305	0.001	<.10
17	RL-75	305	310	0.240	<.10
18	RL-75	310	315	0.012	<.10
19	RL-75	315	320	0.007	<.10
20	RL-75	320	325	<.001	0.21
21	RL-75	325	330	0.015	<.10
22	RL-75	330	335	0.022	<.10
23	RL-75	335	340	0.006	<.10
24	RL-75	340	345	0.007	<.10

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This report reviewed and approved by:

Richard A. Grondin

Richard Grondin, Operations Manager

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Bondar-Clegg, Inc.
625 Spice Island Dr.
Building 1, Unit A
Sparks, Nevada 89431
702 (359-9330)

BONDAR-CLEGG

Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

DATE PRINTED: 7-MAR-91

REPORT: R91-10373.4

PROJECT: 75351

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AU Dup OPT
P4 RL70C 675-680		0.005		
P4 RL70C 680-685		0.007		
P4 RL70C 685-690		0.008		
P4 RL70C 690-695		0.005		
P4 RL70C 695-700		0.008		
P4 RL70C 700-705		0.015		
P4 RL70C 705-710		0.024		
P4 RL70C 710-715		0.029		
P4 RL70C 715-720		0.038		
P4 RL70C 720-725		0.018		
P4 RL70C 725-730		0.023		
P4 RL70C 730-732		0.014		
P4 RL70C 732-736		0.009		
P4 RL70C 736-741		0.006		
P4 RL70C 741-746		0.004		
P4 RL70C 746-751		0.011		
P4 RL70C 751-756		<0.002		
P4 RL70C 756-761		0.005		
P4 RL70C 761-766		0.006		
P4 RL70C 766-771		0.007		
P4 RL70C 771-776		0.007		
P4 RL70C 776-781		<0.002		
P4 RL70C 781-786		<0.002		
P4 RL70C 786-790		<0.002		
P4 RL70C 790-795		<0.002		
P4 RL70C 795-800		0.003		
P4 RL70C 800-805		0.070		
P4 RL70C 805-810		0.006		
P4 RL70C 810-815		0.011		
P4 RL70C 815-820		0.005		
P4 RL70C 820-825		0.004		
P4 RL70C 825-830		0.005		
P4 RL70C 830-835		0.003		
P4 RL70C 835-840		0.005		
P4 RL70C 840-845		0.003		
P4 RL70C 845-850		<0.002		
P4 RL70C 850-855		0.006		
P4 RL70C 855-860		0.174	0.130	0.130
P4 RL70C 860-865		0.020		
P4 RL75C 700-705		<0.002		

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AU Dup OPT
P4 RL75C 705-710		0.014		
P4 RL75C 710-715		0.030		
P4 RL75C 720-725		<0.002		
P4 RL75C 725-730		<0.002	<0.002	
P4 RL75C 730-735		<0.002		
P4 RL75C 735-740		0.057		
P4 RL75C 740-745		0.076		
P4 RL75C 745-750		0.007		
P4 RL75C 750-755		<0.002		
P4 RL75C 755-760		<0.002		
P4 RL75C 760-765		<0.002		
P4 RL75C 765-770		<0.002		
P4 RL75C 770-775		0.008		
P4 RL75C 775-780		0.385		
P4 RL75C 780-785		0.460#	0.549	1.091
P4 RL75C 785-790		0.005		
P4 RL75C 790-795		<0.002		
P4 RL75C 795-800		0.004		
P4 RL75C 800-805		0.012		
P4 RL75C 805-810		0.062		
P4 RL75C 810-815		0.071		
P4 RL75C 815-820		0.230		
P4 RL75C 820-825		<0.002		
P4 RL75C 825-830		<0.002		
P4 RL75C 830-835		<0.002		
P4 RL75C 835-840		<0.002		
P4 RL75C 840-845		<0.002		
P4 RL75C 845-850		0.035		
P4 RL75C 850-855		<0.002		
P4 RL75C 855-860		0.080		
P4 RL75C 860-865		0.004		
P4 RL75C 865-870		0.090		
P4 RL75C 870-875		0.008		
P4 RL75C 875-880		0.008		
P4 RL75C 880.5-887		0.093		
P4 RL75C 887-892		0.248		
P4 RL75C 892-897		0.012		
P4 RL75C 897-902		0.015#	0.019	0.040
P4 RL75C 902-907		0.006		
P4 RL75C 907-912		0.005		

Bondar-Clegg, Inc.
625 Spice Island Dr.
Building 1, Unit A
Sparks, Nevada 89431
702 (359-9330)

BONDAR-CLEGG

Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

DATE PRINTED: 7-MAR-91

REPORT: R91-10373.4

PROJECT: 75351

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AU Dup OPT
P4 RL75C 912-917		0.008		
P4 RL75C 917-922		0.008		
P4 RL75C 922-927		0.006		
P4 RL75C 927-932		0.011		
P4 RL75C 932-937		0.010		
P4 RL75C 937-942		0.012		
P4 RL75C 942-947		0.003		
P4 RL75C 947-952		0.007		
P4 RL75C 952-957		0.022	0.016	
P4 RL75C 957-962		0.010		
P4 RL75C 962-967		0.003		
P4 RL75C 967-972		0.006		
P4 RL75C 972-977		<0.002		
P4 RL75C 977-982		<0.002		
P4 RL75C 982-987		0.003		
P4 RL75C 987-992		<0.002		
P4 RL75C 992-997		<0.002		
P4 RL75C 997-1002		<0.002		
P4 RL82C 703-708		0.006		
P4 RL82C 708-713		0.006		
P4 RL82C 713-718		0.003		
P4 RL82C 718-723		0.012		
P4 RL82C 723-728		0.006		
P4 RL82C 728-733		<0.002		
P4 RL82C 733-738		0.014		
P4 RL82C 738-743		0.014		
P4 RL82C 743-748		0.014		
P4 RL82C 748-753		0.012		
P4 RL82C 753-758		0.032		
P4 RL82C 753-763		0.033		
P4 RL82C 763-768		0.028		
P4 RL82C 768-773		0.015		
P4 RL82C 773-778		0.011		
P4 RL82C 778-783		0.135		
P4 RL82C 783-788		0.028		
P4 RL82C 788-793		0.015		
P4 RL82C 793-798		0.028		
P4 RL82C 798-801.6		0.636	0.543	
P4 RL82C 801.6-807		0.182		
P4 RL82C 807-812		0.016		
P4 RL82C 812-817		0.011		
P4 RL82C 817-822		0.002	0.039	0.006
P4 RL82C 822-827		0.005		
P4 RL82C 827-832		0.007		
P4 RL82C 832-837		0.009		
P4 RL82C 837-842		0.009		
P4 RL82C 842-847		0.005		
P4 RL82C 847-842		0.005		
P4 RL82C 852-857		0.004		
P4 RL82C 857-862		0.005		

NEVADA GSI

MAY 29 1990

GEOCHEMICAL ANALYSIS REPORT

May 21, 1990

Mr. Nate Brewer
Lac Minerals
1395 Greg Street #107
Sparks, NV 89431

Number of Samples: 52
Project #: URBD
GSI #: 7163
Analysis: Fire Assay for Gold and Silver, with an A.A. finish.

	Sample I.D.			Au o/t	Ag o/t
1.	RL-75C	345	350	-0.001	-0.10
2.	RL-75C	350	355	-0.001	-0.10
3.	RL-75C	355	360	-0.001	-0.10
4.	RL-75C	360	365	-0.001	-0.10
5.	RL-75C	365	370	0.001	-0.10
6.	RL-75C	370	375	-0.001	-0.10
7.	RL-75C	375	380	-0.001	-0.10
8.	RL-75C	380	385	-0.001	-0.10
9.	RL-75C	385	390	-0.001	-0.10
10.	RL-75C	390	395	-0.001	-0.10
11.	RL-75C	395	400	0.003	-0.10
12.	RL-75C	400	405	0.037	0.25
13.	RL-75C	405	410	0.064	0.26
14.	RL-75C	410	415	0.018	0.16
15.	RL-75C	415	420	0.004	0.16
16.	RL-75C	420	425	0.001	-0.10
17.	RL-75C	425	430	-0.001	-0.10
18.	RL-75C	430	435	-0.001	-0.10
19.	RL-75C	435	440	-0.001	-0.10
20.	RL-75C	440	445	-0.001	-0.10
21.	RL-75C	445	450	0.001	-0.10
22.	RL-75C	450	455	0.002	-0.10
23.	RL-75C	455	460	-0.001	-0.10
24.	RL-75C	460	465	-0.001	-0.10
25.	RL-75C	465	470	-0.001	-0.10
26.	RL-75C	470	475	-0.001	-0.10
27.	RL-75C	475	480	-0.001	-0.10
28.	RL-75C	480	485	-0.001	-0.10
29.	RL-75C	485	490	0.005	0.10
30.	RL-75C	490	495	-0.001	0.13

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	Sample I.D.			Au o/t	Ag o/t
31.	RL-75C	495	500	-0.001	-0.10
32.	RL-75C	500	505	0.019	-0.10
33.	RL-75C	505	510	0.027	-0.10
34.	RL-75C	510	513	0.019	0.17
35.	RL-75C	513	516	0.001	-0.10
36.	RL-75C	516	520	0.043	0.11
37.	RL-75C	520	525	-0.001	-0.10
38,	RL-75C	525	530	-0.001	-0.10
39.	RL-75C	530	535	0.040	0.33
40.	RL-75C	535	540	0.002	0.70
41.	RL-75C	540	545	-0.001	-0.10
42.	RL-75C	545	550	-0.001	-0.10
43.	RL-75C	550	555	-0.001	-0.10
44.	RL-75C	555	560	-0.001	-0.10
45.	RL-75C	560	565	-0.001	-0.10
46.	RL-75C	565	570	-0.001	-0.10
47.	RL-75C	570	575	0.002	-0.10
48.	RL-75C	575	580	0.001	-0.10
49.	RL-75C	580	585	0.003	-0.10
50.	RL-75C	585	590	-0.001	-0.10
51.	RL-75C	590	595	-0.001	-0.10
52.	RL-75C	595	600	0.002	-0.10

This report reviewed and approved by:

Richard A. Grondin

Richard Grondin, Laboratory Manager

NEVADA GSI

JUN 13 1990

GEOCHEMICAL ANALYSIS REPORT

June 6, 1990

CUST. CODE: LOA
PROJECT: URBD
P.O. #: XXXX
LOT ID: 7208

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

	SAMPLE I.D.			Au o/t	Ag o/t	Checks Au o/t	Checks Au o/t
1.	RL-75C	600	605	0.007	0.29	—	—
2.	RL-75C	605	610	-0.001	0.23	—	—
3.	RL-75C	610	615	-0.001	-0.10	—	—
4.	RL-75C	615	620	-0.001	-0.10	—	—
5.	RL-75C	620	625	-0.001	-0.10	—	—
6.	RL-75C	625	630	-0.001	-0.10	—	—
7.	RL-75C	630	635	-0.001	-0.10	—	—
8.	RL-75C	635	640	-0.001	-0.10	—	—
9.	RL-75C	640	645	-0.001	-0.10	—	—
10.	RL-75C	645	650	-0.001	-0.10	—	—
11.	RL-75C	650	655	-0.001	-0.10	—	—
12.	RL-75C	655	660	-0.001	-0.10	—	—
13.	RL-75C	660	665	-0.001	-0.10	—	—
14.	RL-75C	665	670	-0.001	-0.10	—	—
15.	RL-75C	670	675	-0.001	-0.10	—	—
16.	RL-75C	675	680 A	-0.001	-0.10	—	—
17.	RL-75C	675	680 B	-0.001	-0.10	—	—
18.	RL-75C	685	690	0.001	0.23	—	—
19.	RL-75C	690	695	-0.001	-0.10	—	—
20.	RL-75C	695	700	0.066	-0.10	—	—
21.	RL-75C	700	705	0.001	-0.10	—	—
22.	RL-75C	705	710	0.015	-0.10	—	—
23.	RL-75C	710	715	0.035	1.09	—	—
24.	RL-75C	720	725	0.002	-0.10	—	—
25.	RL-75C	725	730	0.003	-0.10	—	—
26.	RL-75C	730	735	0.002	-0.10	—	—
27.	RL-75C	735	740	0.042	-0.10	—	—
28.	RL-75C	740	745	0.062	0.39	—	—
29.	RL-75C	745	750	0.008	-0.10	—	—
30.	RL-75C	750	755	0.002	-0.10	—	—

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	SAMPLE I.D.			Au o/t	Ag o/t	Checks Au o/t	Checks Au o/t
31.	RL-75C	755	760	0.001	-0.10	-	-
32.	RL-75C	760	765	0.001	-0.10	-	-
33.	RL-75C	765	770	0.001	-0.10	-	-
34.	RL-75C	770	775	0.004	-0.10	-	-
35.	RL-75C	775	780	0.262	-0.10	0.424	0.347
36.	RL-75C	780	785	0.093	0.26	-	-
37.	RL-75C	785	790	0.010	-0.10	-	-
38,	RL-75C	790	795	0.001	-0.10	-	-
39.	RL-75C	795	800	0.002	-0.10	-	-
40.	RL-75C	800	805	0.011	-0.10	-	-
41.	RL-75C	805	810	0.046	-0.10	-	-
42.	RL-75C	810	815	0.053	0.16	-	-
43.	RL-75C	815	820	0.120	-0.10	-	-
44.	RL-75C	820	825	-0.001	-0.10	-	-
45.	RL-75C	825	830	-0.001	-0.10	-	-
46.	RL-75C	830	835	-0.001	-0.10	-	-
47.	RL-75C	835	840	0.003	-0.10	-	-
48.	RL-75C	840	845	0.001	-0.10	-	-
49.	RL-75C	845	850	0.008	-0.10	-	-
50.	RL-75C	850	855	-0.001	-0.10	-	-
51.	RL-75C	855	860	0.126	0.20	0.195	0.126
52.	RL-75C	860	865	0.003	-0.10	-	-
53.	RL-75C	865	870	0.012	0.39	-	-
54.	RL-75C	870	875	0.009	-0.10	-	-
55.	RL-75C	875	880	0.001	0.13	-	-
56.	RL-75C	1027	1032	-0.001	-0.10	-	-
57.	RL-75C	1032	1037	-0.001	-0.10	-	-
58.	RL-75C	1037	1042	-0.001	-0.10	-	-
59.	RL-75C	1042	1047	0.008	0.12	-	-
60.	RL-75C	1047	1052	0.012	-0.10	-	-
61.	RL-75C	1052	1057	0.001	-0.10	-	-
62.	RL-75C	1057	1062	-0.001	-0.10	-	-
63.	RL-75C	1062	1067	0.016	-0.10	-	-
64.	RL-75C	1067	1071	0.001	-0.10	-	-
65.	RL-75C	UNMARKED BAG		0.010	-0.10	-	-

THIS REPORT REVIEWED AND APPROVED BY:

Richard A. Grondin

RICHARD GRONDIN, LABORATORY MANAGER

NEVADA GSI

MAY 15 1990

GEOCHEMICAL ANALYSIS REPORT

May 10, 1990

Mr. Nate Brewer
Lac Minerals
1395 Greg Street #107
Sparks, NV 89431

Number of Samples: 29
Project #: URBD
GSI #: 7170
Analysis: Fire Assay for Gold and Silver, with an A.A. finish.

	Sample I.D.			Au o/t	Ag o/t
1.	RL-75C	880.5	887	0.041	0.10
2.	RL-75C	887	892	0.247	0.27
3.	RL-75C	892	897	0.007	0.13
4.	RL-75C	897	902	0.008	-0.10
5.	RL-75C	902	907	-0.001	-0.10
6.	RL-75C	907	912	0.004	-0.10
7.	RL-75C	912	917	0.002	-0.10
8.	RL-75C	917	922	0.002	-0.10
9.	RL-75C	922	927	0.010	-0.10
10.	RL-75C	927	932	0.026	-0.10
11.	RL-75C	932	937	-0.001	-0.10
12.	RL-75C	937	942	0.006	-0.10
13.	RL-75C	942	947	-0.001	-0.10
14.	RL-75C	947	952	0.002	-0.10
15.	RL-75C	952	957	0.025	-0.10
16.	RL-75C	957	962	0.020	0.13
17.	RL-75C	962	967	0.009	-0.10
18.	RL-75C	967	972	0.011	-0.10
19.	RL-75C	972	977	-0.001	-0.10
20.	RL-75C	977	982	-0.001	-0.10
21.	RL-75C	982	987	-0.001	-0.10
22.	RL-75C	987	992	-0.001	-0.10
23.	RL-75C	992	997	-0.001	-0.10
24.	RL-75C	997	1002	-0.001	-0.10
25.	RL-75C	1002	1007	-0.001	-0.10

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	Sample I.D.			Au o/t	Ag o/t
26.	RL-75C	1007	1012	-0.001	-0.10
27.	RL-75C	1012	1017	-0.001	-0.10
28.	RL-75C	1017	1022	-0.001	-0.10
29.	RL-75C	1022	1027	-0.001	-0.10

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This report reviewed and approved by:

Richard A. Grondin

Richard Grondin, Operations Manager

RL 75C UPPER N. ZONE INTER.				Au Avg	AU SUM	SAMPS	AU1	AU2	AU3	Var 3vs1	AU4	AU5
							GSI	GSI Chks	BC Mar/91		BC M/91dup	BC M/91dup
RL75C	775	780	5	0.355	1.418	4	0.262	0.424	0.385	62%	0.347	
RL75C	780	785	5	0.548	2.193	4	0.093	*0.093*	0.460	395%	0.549	1.091
RL75C	785	790	5	0.008	0.025	3	0.010	*0.010*	0.005	-50%	0.010	*0.008*
RL75C	790	795	5	0.001	0.001	2	0.001	*0.001*	0.000	-100%	*0.001*	*0.001*
RL75C	795	800	5	0.003	0.006	2	0.002	*0.002*	0.004	100%	*0.003*	*0.003*
RL75C	800	805	5	0.012	0.023	2	0.011	*0.011*	0.012	9%	*0.012*	*0.012*
RL75C	805	810	5	0.054	0.108	2	0.046	*0.046*	0.062	35%	*0.054*	*0.054*
RL75C	810	815	5	0.062	0.124	2	0.053	*0.053*	0.071	34%	*0.062*	*0.062*
RL75C	815	820	5	0.175	0.350	2	0.120	*0.120*	0.230	92%	*0.175*	*0.175*
			45	**0.135**			0.066	0.084	0.137	27%	0.135	0.156
							Original Avg	GSI Chks	BC Mar/91		BC M/91dup	BC M/91dup
						Variance % Orig/vs _		27%	106%		103%	135%
					Variance % Avg/vs _		-51%	-38%	1%		0%	15%

RL-75C LOG SUMMARY

Bedded Bud	0-105 Lithic Lapilli Tuff - bedded Bud
	105-185 " " " Deep sea green bedded Bud
Intrusive	185-270 Intrusive
FGT	270-346 FGT w/ local frag. component (green (poss. volc. brxa)
Bedded Bud	346-349 green lithic lapilli tuff
FGT	349-362 FGT 355-356 weakly pyroc
Intrusive	362-381.5 intrusive lower contact 45° to axis
	365.7-368.1 tuff vs. bleached intrusive
Bedded Bud	381.5-389.5 volc. brxa (green bedded bud)
FGT	389.5-395.2 FGT ± flow banding
	395.2-408.8 FGT - brecciated vs. volc. brxa vs. lithic lapilli
	408.8-413.4 FGT medium green
	413.4-418.8 brecciated FGT
	418.8-456.8 FGT wk bl
	456.8-474.5 FGT - pvr. fractured
	474.5-528.5 FGT w/ gradational contact into volc. brxa
Volc brxa	528.5-573.3 Volc. brxa (green w/ bl. clasts)
FGT	573.3-663 FGT
	582.3-607 speckled vesicular tuff
	637-647 " " "
	647-663 Bl. & fractured FGT
Intrusive	663-674 Intrusive w/ contact @ base 50° to axis
FGT	674-880.5 FGT
	735-741 brecciated & fractured
	* 732-814 milled (rounded) frags - poss inner volc brxa unit, pvr. fractured
	800-820 pvr. silicified ↑ local Δ
	814-880.5 pvr. mod fracturing
Volc. brxa	880.5-892 Volc. brxa - hydrothermal upper contact 40° lower 70°
FGT	892-937 FGT peach to buff
	937-982.5 speckled FGT.
	982.5-991.5 FGT strongly fract & local Δated

RL-75C Log Summary (continued)

SOUTH RIDGE FAULT

991.5 - 994 Heterolithic brecciated tuff ←
994 - 1001 Bl. fault breccia - upper contact 30°
lower contact 80° to core axis

Dozer

1001 - 1018 FGT (Dozer?) bleached
1010 - 1015 str. fracture w/ broken rubble
1018 - 1022 peach FGT - brecciated
1022 - 1067 Bl FGT (Dozer) local Δ

Jurassic

1067 - 1071 JR mesozoic shale
contact @ 50° to core axis