60001304

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-70C
AUTHOR	K. Kenner; N. Brewer; R. Grondin; B Connelly
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; Coates Drilling Long Lac Minerals Exploration (Texas), Inc. Lac Minerals
COMMODITY If not obvious	gold silver
NOTES	Drill log; geology; assay; total depth 1012 handwritten notes; also related to RL-70C 32p.

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
ROSEBUD

RE-70

6000 1304 4010 ✓

6000 1304

LONG LAC MINERALS EXPL. (TEXAS) INC.

DRILL LOG SUMMARY SHEET

PROJECT ROSEBUD

HOLE NUMBER RL-70C TOTAL DEPTH 1012' LOGGED BY KLK

Date started march 29, 1990

Date completed april 3, 1990 early AM

Initial bearing S55E

Initial inclination -68.5°

Elevation 5255.9

Collar coordinates:

N 2204177.0

E 481707.4

Contractor COATES DRILLING

Drill Type universal Rotary / CORE

Hole Size HQ core

Comments a bit slow to begin w/ still getting to know rock
4-2 hydraulic cable broke lost 40 gallons oil
gov H2O hitch, stuck @ bit, shut 4-2
no other mgr. problems

AU, AG ENTERED

DOWN HOLE SURVEY INFORMATION

FROM	TO	SURVEY POINT	INCLI-NATION	BEARING	X (Easting)	Y (Northing)	Z (Elevation)
0	150		-68.5°	S55E			
150	200		-68.2°	S57E			
200	400		-69.2°	S57E			
400	600		-69.2°	S59E			
600	825		-69°	S61.E			
825	950		-69°	S62E			
950	1012		-69°	S62E			

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	DESCRIPTION	ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
						CORING BEGAN @ 10'						
10	100+		45/fract	local tr. relict limon replac pyr		10 - 143 CLASSIC GREEN BUD PYROCLASTIC rounded to subangular clasts predom .1" to 1/2" wide w/ local 1" wide clasts predom clast supported perv. smectite? ± nontronite alt perv. mod argillic clay alt weakly perv bleached predom of isolated clasts w/ smectite/nont. ↑ concentrations w/in fine grained matrix - weakly oxidized predom along weak fracture surfaces	10-15				-.001	-.1
20	100+		2/2/2K				15-20				-.001	0.1
			65° fract				20-25				-.001	-.1
30	100					10'-11.5 predom. fine grained w/ mod perv. bleaching	25-30				-.001	-.1
			65 fract			19-21 fractures filled w/ chocolate brown (goethite?) oxides	30-35				-.001	-.1
40	100						35-40				-.001	-.1
						41 - 43.5 ↑ perv. clay alt	40-45				-.001	.10
			12° fract			42 ± downward w/ ↓ perv. OXIDATION	45-50				-.001	-.1
50	100+						50-55				.001	-.1
			55 fract				55-60				-.001	-.1
60	98					68-69 wk ↑ fracturing w/ assoc. limonite rich oxidation	60-65				-.001	-.1
70			No fract				65-70				-.001	.14

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		85/fract	tr relict FeOx replas py		70-140 GREEN BUD PYROCLASTIC CONTINUED	70-75				-.001	-.1
			65/fract				75-80				-.001	-.1
80	98		80°/fract			80-92 Finer clasted pyroclastic - probable finer graded bed w/ average size bleached clastic ~.1" to 1/8" oxidation concentrates along fractures; locally w/in bleached clasts	80-85				-.001	-.1
			20°/fract				85-90				-.001	-.1
90	98					92-101 coarser clasted w/ mod strong pervasive limonite w/ weak pervasive silicification, all clasts are oxidized green nontronite (or smectite) alt concent w/in matrix	90-95				-.001	-.1
							95-100				-.001	-.1
100	96	CS graphic bedding	80/VN				100-105				-.001	-.1
		flo 50/colloA frag		~1% diss py w/in clasts		101-125.5 Grading into texture of chicken pox pyroclastic w/ graded bedding from mod clast size (1/4"-1/2") to fine beds w/ green clay alt flattened clasts contributing to chicken pox texture more flow texture prevalent	105-110				-.001	-.1
110	99	CD graded bed	50/VN				110-115				-.001	-.1
120	88	65/flo	15°/fract			108' RE/Ox Boundary	115-120				-.001	-.1
							120-125				-.001	-.1
130	97	45/dike cont.		tr bleached sulfide		125.5-135 zone of chocolate brown "unalt" fine grained (dike/sill?) material w/ priphirial siliceous contact brecciation locally dike/sill expression parallels axis of core 2+ stages brecciation adjacent to dike	125-130				-.001	-.1
			20/fract	tr py w/ in clasts	CONTACT 60°	rubbly @ 131	130-135				-.001	-.1
140		83/flo				135-143 CHICKEN POX PYROCLASTIC ≤ wispy Bud	135-140				-.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
	98	50° FGT CONTACT	60 fract	± 1% diss + VN py		140 - 210 BUD CONTINUED	140-145				-.001	-.1
						143 - 169 FINE GRAINED TUFF w/ local large laharic bombs up to 10" long; predom composition is fine gr. tuff, locally finely brecciated (up to 2-3 stages) w/ microbreccia matrix. weak $CaCO_3$ veinlets, weak perv. bleaching; argillic clay alt weakly locally fractured w/ smectite, pyrite ± kaolinite black fill. In contact w/ chick pox pyro @ 40° to axis	145-150				-.001	-.1
150	89		42 VN				150-155				-.001	-.1
							155-160				-.001	-.1
160	100		$CaCO_3$ VN				160-165				-.001	-.1
			48 fract				165-170				-.001	-.1
170	100 ±5	40 CONTACT		1-2% diss + VN py		169 - 172 chicken pox pyroclastic strongly clay altered w/ pervasive smectite alt clasts are bleached white; clay alt	170-175				-.001	-.1
			60° fract	~2% diss + VN + py								
				± 2% diss + VN py		172 - 175 Lr gray green fine grained tuff w/ fine chalcedonic veinlets weakly to mod perv. silicified fine fractured weak fine $CaCO_3$ stockwork local buckshot pyrite clusters	175-180				-.001	-.1
180	90	50°					180-185				-.001	-.1
							185-190				-.001	-.1
190	80		20 fract			175 - 182 predom fine to coarse clasted laharic breccia w/ clasts up to 6" wide perv. smectite + clay alt	190-195				-.001	-.1
		SS FGT CONTACT				182 - 197 CHICKEN POX PYROCLASTIC perv. strong clay alt; perv. smectite alt sulf disseminated w/in pyro-clasts.	195-200				-.001	-.1
200	118	53 $CaCO_3$ VN					200-205				-.001	-.1
						197 - 244 Fine grained tuff, weakly silicified, locally brecciated, local erratic clasts up to 4" wide, weak perv bleaching, weak intermittent $CaCO_3$ vns local wh fract w/ kaolinite ± duck butter alt fill	205-210				-.001	-.1
210			53 fract									

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	DESCRIPTION
	98	64 / CaCO3 VN	52 fract	±2% diss + VN py + local massive site		210 - 244 FGT to Lahar (cont.)
220	100	18 / py VN	-10° fract			215.5 - 244 ↑ vuggy, druzy qtz vns + $CaCO_3$; local massive + pyrite ? poss Fe sulfate locally ± sericite alt ↑ fine pyrite veinlets, weak pervasive silicification, local brecciation w/ few large (up to 6") irregular clasts
230	100	45 / VN	45 fract / 30°			
240	100	80-90° VN py	43° fract			239.8 - 243.3 zone of intermittent, lr sage green chalcedonic silicification up to 1' thick becoming weakly pyroclastic in texture
250	94		30° / fracts / 10°	2% diss + VN py		244 - 255 Deep sea green medium clasted pyroclastic w/ pri-montmorillonite ? alt ± sericite alt. Clasts are predom white clay (kaolinite ?) alt, weak SiO_2 encap. pyrite vns, predom matrix supported
260	80	50 / f10	fract / 15	±2% diss + VN py		255 - 283 mod to strong clay alt pyroclastic predom matrix supported w/ chicken pox texture, sulfides concentrated w/in clasts WHISPY UNIT
270	100	45 / f10	45 fract			261 - 265 strong clay alteration, semi rubble zone - poss due to ↑ clay alt
280						276 - 283 strongly clay alt + rubble zone

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
210-215				-.001	-.1
215-220				.011	-.1
220-225				.009	-.1
225-230				.036	-.1
230-235				.018	-.1
235-240				.003	-.1
240-245				.003	-.1
245-250				.04	-.1
250-255				.004	-.1
255-260				.001	-.1
260-265				.001	-.1
265-270				.001	-.1
270-275				-.001	-.1
275-280				-.001	-.1

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG
	100		80/20	±2% diss +VN py	
290	98	45/80	Fract/22		
300	100	45/80	50/cont	±1% diss +VN py	
310	100	55/80	Fract/30		
320	98	50/CaCO3 VN			
330	100 +	55/80	Fract/30	±2% diss +VN py	
340	100		68 Fract VN		
350		55/py VN			

DESCRIPTION

300.5 to SRF is LBT

283 - 300.5 Dup sea green matrix rich pyroclastic w/ angular to subrounded phelsm bleached clasts highest concentrations of pyrite are in clasts w/ wk to tr pyrite w/ in clay rich matrix, mod strong pvs clay alt. very weak local $CaCO_3$ ± clay (kaolinite) veinlets, somewhat chicken poo texture w/ flattened clasts

300.5 - 405 Fine grained tuff local weak flow texture weakly to mod pervasively bleached, weak to mod pvs. clay alt intermittently brecciated w/ local large laharic blocks up to 6"-10" wide w/in breccia zones matrix is a microbreccia weak local $CaCO_3$ veinlets

309.5 - 315 mod coarse CLASTED Brecciation

333 - 360 moderate pyrite veins to veinlets, having oxidized w/ time w/ local white clay ± silicic alt

339 - 354 ↑ pervasive laharic bomb sized to medium clastic brecciation w/ local micro breccia rich matrix

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
280-285				.001	.10
285-290				.001	.1
290-295				.001	.1
295-300				.001	.1
300-305				.001	.1
305-310				.001	.1
310-315				.001	.1
315-320				.001	.1
320-325				.001	.1
325-330				.001	.1
330-335				.001	.1
335-340				.001	.1
340-345				.012	.1
345-350				.005	.1

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	DESCRIPTION	Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
						350-405 FGT continued						
	90	36/90	50 fract	±2% diss tr VN py		350-354 mod drusy, vuggy quartz veins w/ local marcasite + pyrite w/ clay ± sericite alt locally, mod strongly brecciated w/ SiO_2 rich microbreccia matrix	350-355				.014	-.1
							355-360				.002	-.1
360	96		10/fract				360-365				-.001	-.1
		60 py VN	50 fract			360-365 ↑ bleaching zone w/ pervasive brecciation clasts supported w/ micro breccia matrix	365-370				-.001	-.1
370	100	50/90	45/fract	1% + diss tr VN py		367-373 breccia zone (coarsely) one clast up to 6" long w/ weak lim cross pyrite vns	370-375				.01	-.1
							375-380				-.001	-.1
380	96	20/VN	15 fract	1-2% diss tr VN py			380-385				-.001	-.1
						384-403 Laharic breccia zone, clasts up to 5"-6" wide, weakly perv. silicified weak local ice blue opaline silica filling vugs w/in breccia, locally white clay ± duck butter shrinks rimmed w/ $CaCO_3$	385-390				-.001	-.1
390	100	55/10° VN	xx				390-395				-.001	-.1
400	104	25 VN	fract/30				395-400				-.001	-.1
			24/fract	±1% diss tr VN py			400-405				-.001	-.1
						405-426 Laharic Breccia: mottled burgundy brown to green locally clasts up to 6"-7" wide w/ local fine microbreccia matrix local burg-red iron oxide microvia fill predom subrounded clasts locally subangular, perv. mod silicified	405-410				-.001	-.1
410	100	35/90					410-415				-.001	-.1
420			37/fract				415-420				-.001	-.1

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	DESCRIPTION
	102	10°/20° VN	35/fract	±1% diss + VN py		420 - 426 Lahar Breccia (cont.)
430	100	40/40	35/fract			426-447 fine grained tuff, mottled burgundy, green, pos weakly pyr. silicified very weak local chlorite rich fractures tr. to CaCO3 vns, pos local epidote frags up to 4" wide; brecciated gradational contact into dike/sill
440	99	40/40	85-90 CaCO3 VN			
			38/fract	NIL		447-466.3 Dark burgundy gray brown probable fine grained unaltered LBT weakly fractured w/ hematite ± local CaCO3 ± chlorite fill in hairline fracts. somewhat gradational contact into FGT.
450	103		52 fract			
460	85		38/fract			fresh LBT
470	110	35 CaCO3 VN		2% VN + diss py		466.3 - 503 mottled lt green to bleached white to buff fine grained Tuff, weakly siliceous pyr. moderate fracturing w/ pyrite chlorite, local CaCO3, hematite ± local sericite fill local buckshot pyrite weak pho. argillic clay alt
480	98	40	40 fract VN	±3% diss + VN py		476 - 580 weakly pyr. bleached
		40	30 fract			476-493.3 intensely fractured zone w/ local vuggy drusy qtz vns w/ marcasite, pyrite local sericite, ± CaCO3 ± hematite alt local seams of silicified mineralized microbrecciation w/ ± 2% stage 1 alteration
490			40 HBW			

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
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				.001	.1
455-460				.001	.1
460-465				.001	.1
465-470				.001	.1
470-476				.002	.1
476-481				.003	.1
481-486				.003	.1
486-491				.004	.1

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	DESCRIPTION
	100	US/fo	30 frost VNS	2% diss + VN py		490 - 560 FGT continued
				± 1% diss + VN py		490 - 493.3 drusy, silicified brecciated mineralized zone continued
500		fo/60	30 frost			
	100	VN frost				503 - 516 Bleached Fine grained tuff mod perv bleached weakly perv clay alt poss local relict flo banding mod to mod strongly riddled w/ green (nontronite?) rimmed alt locally filled w/ pyrite; local sericite ± local kaolinite
510						
	100	fo/25	US frost VN			
				2% diss + VN py		516 - 537 mottled peach, green fine grained tuff intermittently brecciated - predom weakly w/ local zones of mod strong, 2+ stages of brecciation w/ nontronite & ± sericite local pyrite Δia fill weak perv buckshot pyrite locally perv fractured w/ local drusy qtz sericite pyrite local marcasite ± kaolinite fill possible cadmium Δiation locally 519 - 523 zone of strongest brecciation
520						
	100		20 py VNS			
				2% diss + VN py		
530			10 Sa frost VNS			
	100					
				1-2% diss + VN py		537 - 566 fine grained tuff, mottled green to buff, weakly perv bleached, weakly perv argillic clay alt, weakly fractured w/ nontronite, local sericite & pyrite fill.
540			VN/15°			
	100		25/spot			
550		US/fo				557 - 562 lahar breccia zone
	93		15/spot			
560						

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
491-496				.002	-.1
496-501				.001	-.1
501-506				.001	-.1
506-511				.002	-.1
511-516				.003	-.1
516-521				.011	-.1
521-526				.002	-.1
526-531				-.001	-.1
531-536				.005	-.1
536-541				-.001	-.1
541-546				-.001	-.1
546-551				-.001	-.1
551-556				-.001	-.1
556-561				-.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
				+2% diss +VN py		560 – fine grained tuff (continued)	561-566				.003	-.1
570	100	50 py VN	65 frac			566 – 581 Intermittent fine breccia throughout w/ local weak drusy qtz ± Kaolinite pyrite ± marcasite + sericite on fracture fill weakly intermittently silicified finely clasted 1" to 1/2" w/ micro breccia matrix	566-571				.004	-.1
	100	20 VN frac					571-576				-.001	-.1
580							576-580				.004	-.1
	100		55 py VN 10 75 CaCO3 VN			583 – 592.5 mottled to speckled fine grained tuff weakly to moderately bleached, weak to mod pyr. clay alt + moderate fracture w/ chlorite? or nontronite pyrite, kaolinite ; poss local sericite	580-585				.019	-.1
590							585-590				.002	-.1
	100		45 frac VN				590-595				.005	-.1
						593.8 – 595 well fractured to locally brecciated ; mod pyr silicified & frac. fill : pyrite duck butter, SiO_2 marcasite	595-600				.008	-.1
600	100	50 fol.	45° frac VN			601 – 605 FGT w/ finely flow brecciated	600-605				.004	-.1
610			12/VN			608 – 614.3 mod strongly silicified w/ mod strongly fractured w/ SiO_2 + pyrite local duck butter ; local micro breccia units	605-610				.004	-.1
	99					614.3 – 620 mod well bleached ; milled tuff breccia clast supported – predom all bleached weakly pyr. silicified	610-615				.006	-.1
620			30 20 VNS				615-620				-.001	-.1
	100					620 – 628 Bubb bleached fine grained tuff locally ; green w/ weak milled frag, – lusgang band – texture strong fracturing limonite that is enveloped w/ green nontronite? alt pyr mod strong fracturing w/ nontronite, pyrite, sericite fill poss chlorite pyr silicified	620-625				-.001	-.1
630			VNS 40 BZ				625-630				.004	-.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
630	100	45/90	vn/15°	2% locally up to 3% diss tvn py ± marcasite		630 - 677 FINE GRAINED TUFF (CONTINUED)	630-635				.001	-.1
						628 - 677 Bleached variegated white buff to green fine g. tuff w/ pseudo flow banding mod strongly perv. fractured w/ pyrite sericite, montmorillonite? fill	635-640				.021	-.1
640	100	38/90	65 vn fract			641.1 - 642 Breccia - silicified somewhat hydrothermal matrix supported w/ SiO_2 & microbreccia + pyrite matrix	640-645				.026	-.1
		80/50	45 vn			648.6 - 649.2 Breccia - silicified, matrix supported hydrothermal, ribbon w/ SiO_2 w/ microbreccia, pyrite local drusy vuggy qtz vns w/ sericite, pyrite ± marcasite	645-650				.041	-.1
650	100	40 vn ± pseudo 90	10/vn				650-655				.003	-.1
				2-3% diss tvn py w/ local marcasite		655.2 - 655.4 hydrothermal Δia similar to above	655-660				.016	.11
660	99	35/frag vn	10/			659 - 659.5 hydrothermal Δia similar to above w/ marcasite xtals	660-665				.006	.20
						660 - 660.5 hydrothermal Δia @ above more intensely - finely brecciated	665-670				.005	.13
670	99		40 fract/80	2-3% diss tvn ± buck short py		659.5 - 667.5 intermittent rubble zone w/ strong chlorite, sericite, kaolinite, pyrite fill	670-675				.006	.10
		65/prevalent 90	35/fract			677 - 696.8 Speckled fine grained tuff w/ vesicular texture w/ chalcedony core ± pyrite rimmed in peach alteration enveloped in bleaching and encircled w/ last peach rim which usually connects w/ remaining vesicles weakly fractured w/ pyrite ± montmorillonite fill local buck str pyrite, local micro breccia veins.	675-680				.006	-.1
680	98						680-685				.005	-.1
		vn/15°	33 fract				685-690				.032	.10
690	98						690-695				.005	-.1
		50 prevalent 90				696.8 - 741 Bleached variegated buff-white fine grained tuff, mod strongly fractured continued	695-700				.026	-.1
700	100		40 vn									

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	DESCRIPTION
710	96	50 pseudo flo	10 50 fract	±3% diss +VN local buck shot py		700 - 741 Bleached veinlated pseudo flow banded mod strongly fractured fine grained tuff veinlated white buff to green limmed fractures poss weakly silicified weak pervasive argillic clay alt & mod bleaching fractures filled w/ nontronite? pyrite local kaolinite and or poss sericite local rubble zone w/ strong kaolinite ± sericite alt
720	100	50 pseudo flo	45 fract			719 - 719.5 poss fault zone w/ strong kaolinite and or sericite alt w/ assoc drusy qtz + pyrite vns
			15 chalced 50°			
730	100	72 SiO2 py vn				718 - 728 Intermittently broken rubble to zones of hydrothermal breccia to microbreccia veins matrix rich w/ sericite, pyrite nontronite, SiO2, ± kaolinite fill also ~1' seam chalcedonically rehealed breccia vein
740	100	fract vns 75° 60	60 fract		w/ milled frags	
				±2% diss +VN py		732.3 - 736 Intensely clay altered weakly locally brecciated w/ mod broken rubble
						739-740 brecciated, silicified w/ blebbed sulfide
750	100		25 /VN			741 - 765.5 mottled peach and green fine grained tuff, weakly bleached & clay altered, weakly perv. silicified, weak local silicious microbreccia veinlets - w/ pyrite + sericite fill locally coarsely brecciated, weakly to mod fractured
			75 Δ VN			
760	100		py vns 30 53			
770	100		fract 70 20			765.5 - 787.7 Fine grained tuff - well fractured to brecciated - description cont. on page 12 765.5 - 770 strongly fractured, weakly to mod brecciated w/ SiO2, CaCO3 + sericite, + pyrite local Δ + fract fill

ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
700-705				.005	-.1
705-710				.029	-.1
710-715				.033	-.1
715-720				.044	.19
720-725				.021	-.1
725-730				.018	-.1
730-732				.014	-.1
732-736				.009	-.1
736-741				.015	-.1
741-746				.004	-.1
746-751				.006	-.1
751-756				.001	-.1
756-761				.003	-.1
761-766				.005	-.1
766-771				.006	-.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
			16 calcite VN	1-2% diss +VN py		770-787.7 FRACTURED FINE GRAINED TUFF (CONT.) poor oxidation - mustard + rust green pos due to Fe sulfate, pervasively fractured and brecciated w/ local microbreccia fill, local lr cream org - poss sericite	771-776				.009	-.1
780	100		38/70 quartz VN				776-781				-.001	-.1
						787.7-801.8 mottled lr green: flesh fine grained tuff, mod pervasive clay alteration, pervasively fractured to brecciated w/ kaolinite, local dark butter sericite, pyrite, weak local opaline to chalcedonic silica predom clast supported w/ local microbreccia fill	781-786				-.001	-.1
			43 sericite VN				786-790				-.001	-.1
790	100						790-795				-.001	-.1
			60/15 fract				795-800				-.001	-.1
800	98						800-805				.01	.13
			50 fract	±3% diss +VN +brecc shot pyrite +poss local marca site		801.8-893.7 LBT - Lithic lapilli tuff - peach - predom pervasively spectacular alteration due to pervasive clay alt of feldspar w/ local breccia zones - locally hydrothermal: perv. silicified matrix supported " breccia	805-810				.006	-.1
810	100		30/30 fract				810-815				.01	.12
			fract			801.8-831 intermittently hydrothermally brecciated w/ mod drusy vuggy qtz veins + creamy yellow oxidized clay (kaolinite?) + pyrite ± local dark butter sericite ± local poss hint of marcasite	815-820				.005	-.1
820	96				-broken rubble		820-825				.004	-.1
	90		43 fract		CAVE							
	100						825-830				.004	-.1
830	100					831-840 predom fine grained tuff w/ intermittent stockwork to mini breccia veins w/ strong white clay to sericite w/ local SiO_2 + pyrite	830-835				.002	-.1
			75/fract				835-840				.004	-.1
840												

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	DESCRIPTION
	100			±3% diss +VN py		840- 893.7 LBT- lithic lapilli tuff (cont.)
				±2% diss +VN py		840-844.5 Peach grey speckled fine grained tuff, pink brecciated predom clast supported @ ±1" wide w/ microbreccia fill w/ strong dark butter sericite + pyrite (locally bladed) ±SiO2 ±local kaolinite, very few veins
850	98	40 predom 50 grey stns	40 frac / 33 frac	2-3% diss +VN py	rubble	
						844.5-848 variegated grey + buff ± peach fine grained tuff, weakly siliceous w/ poss pseudo flow texture weakly fractured w/ dark butter sericite + pyrite fill
860	100		52 frac			
						848-850 fault rubble zone - strong sericite + nontronite + pyrite ±kaolinite
870	100	VN/15				850-893.7 FGT w/ local breccia zones w/ mod strong post drilling gypsum crystals oxidized dark butter fracture/breccia fill
			37 frac VN 50			861-866 mod strong zone of intermittent brecciation w/ 0.5 dark butter sericite + pyrite ± kaolinite + poss marcasite
880	99	10 micro Alia VN	80 frac VN			875-881 FAULT BRECCIA zone - 875-878 wkly silicified
						878-881 Broken rubble
						881-882 fract + micro Alia VN ll to core axis
890	100	10 VN	83 frac 90 VN 40 frac			881-893.7 weakly perv silicified
						892-893.7 coarse siliceous
				±2% diss +VN py		893.7- 915 GREEN PYROCLASTIC - CONTACT IS Abrupt lithologically and alterationally clast supported pyroclastic w/ pervasive green smectite ± nontronite alt, locally intermittently silicified, perv. clay alt, very weak fracturing or veining, clasts range from .4" to couple millimeters may be fault related.
900	99		frac 45 VN			
						906-909 Intensely clay altered rubble zone w/ weak post drilling OXIDATION
910						

ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
840-845				.005	-.1
845-850				.001	-.1
850-855				.002	-.1
855-860				.083	-.1
860-865				.023	-.1
865-870				.014	-.1
870-875				.003	-.1
875-880				.004	-.1
880-885				.007	-.1
885-890				.003	-.1
890-893.7				.002	-.1
893.7-899				.001	-.1
899-904				.002	-.1
904-909				.001	-.1

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG
	100	30/fract	75° comp	±2% diss +VN py; 4-5%	
920	100	30/VN		±2-3% diss +VN py	
930	100			±2% diss +VN +buck shot py	75°
940	98	10° VN; 75/flow	33 VN	±1% diss +VN py	
950	98		py/VN 15; clay/VN 35	2-3%; ±1% diss +VN py	
960	94		40 fract		
970	70		40 fract	±2% diss +VN py	
980					

DESCRIPTION

910-915 GREEN Pyroclastic (Continued) described @ above ↳ "Bud like"

915-917 well silicified pyroclastic fault breccia strong chalcedony content matrix supported 916-917 up to 5% + finely diss. sulfides contact is breccia grading into fault gouge

917-931.5 Fault gouge zone, most likely fine grained tuff, locally brecciated pervasively bleached pos intensely clay altered, poss rubble; fault gouge w/ local strong sericite alt possible weakly silicified w/ in brecciated zones, kaolinite poss in gouge w/ assoc fine diss sulfides

931.5-941 Bleached Fine Grained Tuff (DOZER) buff w/ slight hint green, poss relic flow banding, weakly to mod fractured w/ white clay (kaolinite) ± local sericite + pyrite fill

941-1012 DOZER FINE GRAINED WELDED TUFF weakly bleached pervasively welded weak hint o'green weak fracturing w/ kaolinite ± sericite ± pyrite fill, weak post drilling; air exposure OXIDATION local $CaCO_3$ vns

951.4-951.7 open vugs w/ sericite ± kaolinite w/ fresh RADIATING stibnite xtals - very fragile - put onto KRISTEN's book shelf

952-952.5 Intense clay gouge w/ poss nontronite alt.

962-969 poss weak rubble zone

974-981 fairly broken up rubble zone w/ weak ↑ pyrite assoc w/ fractures locally brecciated

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
909-915				.001	-.1
915-918				.003	-.1
918-923				.002	-.1
923-928				.002	-.1
928-932				.003	-.1
932-937				.002	-.1
937-940				.003	-.1
942-945				.005	-.1
945-950				.003	-.1
950-955				.001	-.1
955-960				.001	-.1
960-965				.002	-.1
965-970				.002	-.1
970-975				.001	-.1
975-980				.002	-.1

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERAL-IZATION	GRAPHIC LOG	DESCRIPTION
	100			≈1-2% diss ± vns py		980 - 1012 DUZER TUFF (CONT.)
		60 / CaCO3 vns				981 - 990 none or moderate calcite veining predom. perpendicular to core axis
990						980 - 1012 weakly pervasively bleached welded weakly to moderately fractured with kaolinite ± sericite ± local drusy qtz vns poss chlorite + pyrite - locally bladed frac-vns vary from subparallel to perpendicular to core axis
	100	70/vn				
			15/vn			
1000						
	95					
			10/vn			
1010						
			50/py vn			
1012						1012 T.D.

ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
980-985				.001	-.1
985-990				.001	-.1
990-995				.006	-.1
995-1000				.001	-.1
1000-1005				.001	-.1
1005-1010				.002	-.1
1010-1012				.002	-.1

RL-70 Consolidated Lithologies and Sample Intervals

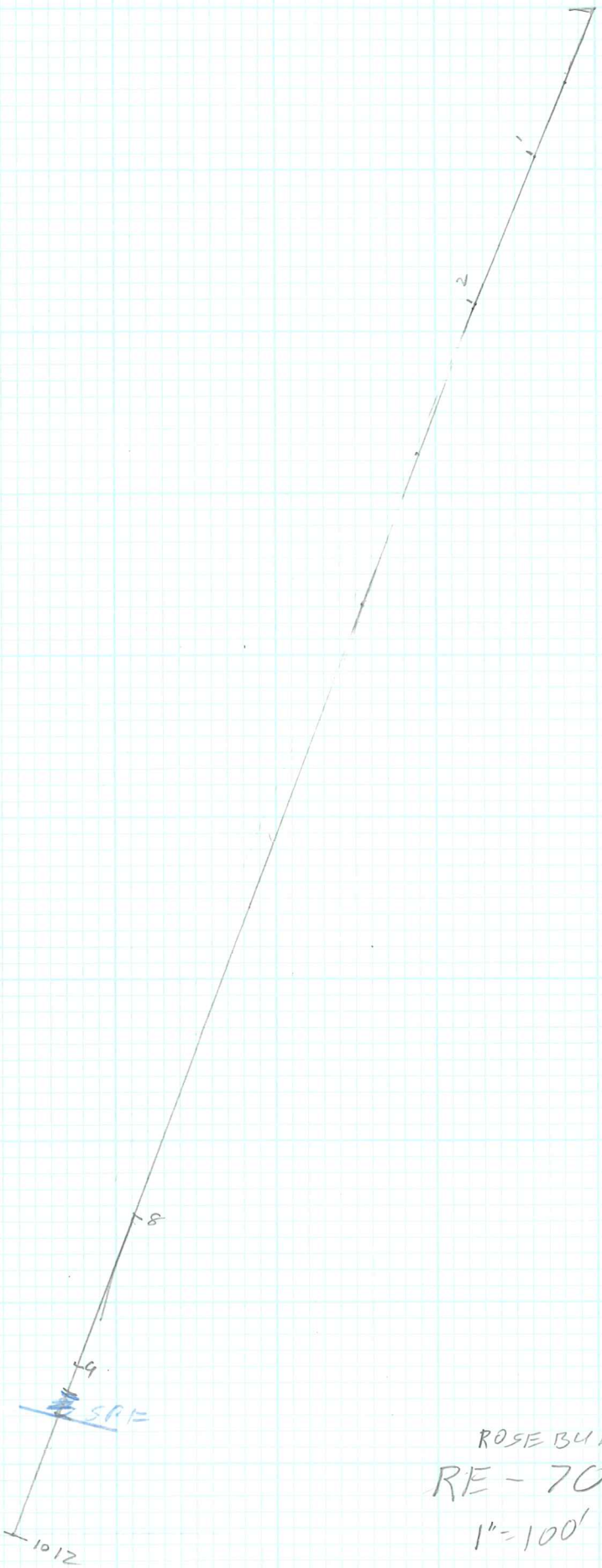
	Recovery R	
only photographed	10 - 143	~~Classic~~ Green Bud Breccia 126.5 - 135 brecciated w/ chalcedonic silicification 136 - 143 chicken poo pyrocl
	143 - 164.5 (152-155) Lahar	Fine grained tuff w/ local breccia veins 152-155 laharic Δia
	164.5 - 181.5	wh bl Bud Δia ± intermitt. tuff betw 173 btw/ 164.5-173 is 3' chicken poo pyroclastic
	181.5 - 198	Bud Breccia - chicken poo pyr 195-198 green bud-classic
	198 - 240	Lt green FGT locally Δiated
	240 - 300.5	green bud Δia 274.5 - 292.5 strongly clayal-
	300.5 - 403	FGT locally brecciated 329 - 339 w/ large 6" lahar block
	403 - 422	Laharic Breccia
	422 - 476	Siliceous FGT
476-481 481-486 486-496 496-501 501-506 506-511 511-516 516-521 521-526	476 - 580	Weathery bleached FGT 503-512 locally siliceous 521-531 w/ local Δiation 580-578 w/ druzy qtz sulfide vn 512-521 locally pink 531-541 local laharic Δia
	580 - 614	Bleached mottled green & flesh buff FGT
	65° 108	

482-492 98%
492-502 100%
502-512 100%
512-522 100%
522-532 100%
532-542 100%

Sample Intervals	Footage	Recovery	Lithology
526-531			
531-536			
536-541	614-620	582-592 100%	Lahar in Δia
541-546			
546 to 580 only photed	620-660	592-602 100%	FGT @ 649' wh brecciation
580-585		602-612 100%	654-660 vuggy w/ drusy
585-590		612-622 99%	qtz marcasite vns
590-595			
595-600	660-678	622-632 100%	FGT locally flow banded
600-605		632-642 100%	bleached buff to white well
605-610		642-652 100%	fractured w/ pyrite/clay fill
610-615			(gray flesh to white in color)
615-620			
620-625			
625-630		652-661 100%	
630-635	678-697	661-667.5 99%	Speckled - spherolite FGT
635-640			hint green ; flesh
640-645			
645-650		677.5-687.5 98%	
650-655	697-741	687.5-698 98%	FGT to flow banded tuff
655-660			green veins (chl?) well
660-665		698-708 100%	fractured w/ pyrite/clay fill
665-670		708-718 96%	718-719 : Δiated
670-675		718-728 100%	732-736 intense clay gouge
675-680			zone
680-685		728-738 100%	
685-690	741-765.5		flesh ; green FGT
690-695		748-758.5 100%	w/ local bleaching wh drusy
695-700			qtz pyrite + white clay ± $CaCO_3$ fr.
700-705		758.5-768.5 100%	
705-710	765.5-787.7		Bleached FGT wh perv
710-715		768.5-778.5 100%	green w/ only touch flesh color
715-720			vuggy drusy qtz pyrite +
720-725		778.5-789 100%	clay vns (white)
725-730			locally stretched ; brecciat
730-732		789-799 100%	
732-736	787.7-795		mottled green + flesh FGT
736-741		799-809.5 98%	wh perv. bleaching
741-746			brecciated fault gouge zone
746-751		809.5-819.5 100%	
751-756	795-801.8		mottled lt green + flesh FGT
756-761		819.5-824 96%	mod clay alt w/ white clay +
761-766			pyrite vns wh bl.
766-771		824-825 90%	
771-776			
776-781		825-830.5 100%	
781-786			
786-790			
790-795			
795-800			
800-805			

Sample Intervals	Footage		Lithologies
8[illegible] - 810	801.8 - 893.7		Flesh * high grade FGT
810 - 815		801.8 - 831	locally brecciated w/ mod buggy drusy qtz pyrite + white ± grn clay fill
815 - 820	830.5 - 840.5 100%		
820 - 825			
825 - 830			
830 - 835	840.5 - 850.5 100%	831 - 845	locally Dicted w/ white warby clay w/ poss whly Silicified
835 - 840			
840 - 845	850.5 - 861 99%		
845 - 850			
850 - 855		845 - 848	bl. white + grn FGT Siliceous
855 - 860	861 - 871 100%		
860 - 865		848 - 850	Fault zone
865 - 870	871 - 881 100%	850 - 866	↑ buff coloration
870 - 875		861 - 866	fault Dia zone w/ strong white ± green clay fill
875 - 880	881 - 891.5 99%		
880 - 885			
885 - 890	891.5 - 901.5 100%	875 - 881	fault Dia zone
890 - 893.7		878 - 881	silicified
893.7 - 899	901.5 - 911.5 99%	881 - 893.7	brecciated w/ poss wk silicification
8[illegible]1 - 904			
904 - 909	911.5 - 921.5 100%		
909 - 915	893.7 - 915		grn pyroclastic like w/ intense clay alt - grn matrix fault gouge vs. grn pyroc
915 - 918	921.5 - 931.5 100%		
918 - 923			
923 - 928	931.5 - 942 100%		
928 - 932	915 - 917		Silicified grayish chalcedony mixed breccia SGT + FGT
932 - 937			
937 - 940			
940 - 945	917 - 932		Bleached intensely clay alt white brecciated fault gouge
945 - 950			
	932 - 941		bleached white FGT
	941 - TD		Lt grn SGT wk bleaching pervasively, wk perv clay alt

TD 1012 not photoed or sampled was taken to Reno



ROSEBUD

RE - 70

1" = 100'

In hole plane.

NEVADA GSI

APR 20 1990

GEOCHEMICAL ANALYSIS REPORT

April 18, 1990

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

Number of Samples: 21
Project: URBD
GSI Number: 6930
Analysis: Fire Assay for Gold and Silver, with an A.A. finish.

	Sample I.D.			Au o/t	Ag o/t
1.	RL-70C	741	746	0.004	<.10
2.	RL-70C	746	751	0.006	<.10
3.	RL-70C	751	756	0.001	<.10
4.	RL-70C	756	761	0.003	<.10
5.	RL-70C	761	766	0.005	<.10
6.	RL-70C	766	771	0.006	<.10
7.	RL-70C	771	776	0.009	<.10
8.	RL-70C	776	781	<.001	<.10
9.	RL-70C	781	786	<.001	<.10
10.	RL-70C	786	790	<.001	<.10
11.	RL-70C	790	795	<.001	<.10
12.	RL-70C	899	904	0.002	<.10
13.	RL-70C	904	909	0.001	<.10
14.	RL-70C	909	915	0.001	<.10
15.	RL-70C	915	918	0.003	<.10
16.	RL-70C	918	923	0.002	<.10
17.	RL-70C	923	928	0.002	<.10
18.	RL-70C	928	932	0.003	<.10
19.	RL-70C	932	937	0.002	<.10
20.	RL-70C	937	940	0.003	<.10
21.	RL-70C	942	945	0.005	<.10

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This report reviewed and approved by:

Richard A. Grondin

Richard Grondin, Operations Manager

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

NEVADA GSI

MAY 21 1990

GEOCHEMICAL ANALYSIS REPORT

May 16, 1990

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

Number of Samples: 14
Project #: URBD
GSI #: 7133
Analysis: Fire Assay for Gold and Silver, with an A.A. finish.

	Sample I.D.			Au o/t	Ag o/t
1	RL-70C	945	950	0.003	-0.10
2	RL-70C	950	955	0.001	-0.10
3	RL-70C	955	960	0.001	-0.10
4	RL-70C	960	965	0.002	-0.10
5	RL-70C	965	970	0.002	-0.10
6	RL-70C	970	975	0.001	-0.10
7	RL-70C	975	980	0.002	-0.10
8	RL-70C	980	985	0.001	-0.10
9	RL-70C	985	990	0.001	-0.10
10	RL-70C	990	995	0.006	-0.10
11	RL-70C	995	1000	0.001	-0.10
12	RL-70C	1000	1005	0.001	-0.10
13	RL-70C	1005	1010	0.002	-0.10
14	RL-70C	1010	1012	0.002	-0.10

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This report reviewed and approved by:

Richard A. Grondin

Richard Grondin, Operations Manager

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

NEVADA GSI

GEOCHEMICAL ANALYSIS REPORT

May 2, 1990

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

Number of Samples: 93
Project: URBD
GSI Number: 7018
Analysis: Fire Assay for Gold and Silver, with an A.A. finish.

	Sample I.D.			Au o/t	Ag o/t
1	RL-70C	10	15	<.001	<.10
2	RL-70C	15	20	<.001	0.10
3	RL-70C	20	25	<.001	<.10
4	RL-70C	25	30	<.001	<.10
5	RL-70C	30	35	<.001	<.10
6	RL-70C	35	40	<.001	<.10
7	RL-70C	40	45	<.001	0.10
8	RL-70C	45	50	<.001	<.10
9	RL-70C	50	55	0.001	<.10
10	RL-70C	55	60	<.001	<.10
11	RL-70C	60	65	<.001	<.10
12	RL-70C	65	70	<.001	0.14
13	RL-70C	70	75	<.001	<.10
14	RL-70C	75	80	<.001	<.10
15	RL-70C	80	85	<.001	<.10
16	RL-70C	85	90	<.001	<.10
17	RL-70C	90	95	<.001	<.10
18	RL-70C	95	100	<.001	<.10
19	RL-70C	100	105	<.001	<.10
20	RL-70C	105	110	<.001	<.10
21	RL-70C	110	115	<.001	<.10
22	RL-70C	115	120	<.001	<.10
23	RL-70C	120	125	<.001	<.10
24	RL-70C	125	130	<.001	<.10
25	RL-70C	130	135	<.001	<.10
26	RL-70C	135	140	<.001	<.10
27	RL-70C	140	145	<.001	<.10
28	RL-70C	145	150	<.001	<.10
29	RL-70C	150	155	<.001	<.10
30	RL-70C	155	160	<.001	<.10
31	RL-70C	160	165	<.001	<.10
32	RL-70C	165	170	<.001	<.10
33	RL-70C	170	175	<.001	<.10
34	RL-70C	175	180	<.001	<.10

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	Sample I.D.			Au o/t	Ag o/t
35	RL-70C	180	185	<.001	<.10
36	RL-70C	185	190	<.001	<.10
37	RL-70C	190	195	<.001	<.10
38	RL-70C	195	200	<.001	<.10
39	RL-70C	200	205	<.001	<.10
40	RL-70C	205	210	<.001	<.10
41	RL-70C	210	215	<.001	<.10
42	RL-70C	215	220	0.011	<.10
43	RL-70C	220	225	0.009	<.10
44	RL-70C	225	230	0.036	<.10
45	RL-70C	230	235	0.018	<.10
46	RL-70C	235	240	0.003	<.10
47	RL-70C	240	245	0.003	<.10
48	RL-70C	245	250	0.040	<.10
49	RL-70C	250	255	0.004	<.10
50	RL-70C	255	260	0.001	<.10
51	RL-70C	260	265	0.001	<.10
52	RL-70C	265	270	0.001	<.10
53	RL-70C	270	275	<.001	<.10
54	RL-70C	275	280	<.001	<.10
55	RL-70C	280	285	<.001	<.10
56	RL-70C	285	290	<.001	<.10
57	RL-70C	290	295	<.001	<.10
58	RL-70C	295	300	<.001	<.10
59	RL-70C	300	305	<.001	<.10
60	RL-70C	305	310	<.001	<.10
61	RL-70C	310	315	<.001	<.10
62	RL-70C	315	320	<.001	<.10
63	RL-70C	320	325	<.001	<.10
64	RL-70C	325	330	<.001	<.10
65	RL-70C	330	335	<.001	<.10
66	RL-70C	335	340	0.001	<.10
67	RL-70C	340	345	0.012	<.10
68	RL-70C	345	350	0.005	<.10
69	RL-70C	350	355	0.014	<.10
70	RL-70C	355	360	0.002	<.10
71	RL-70C	360	365	<.001	<.10
72	RL-70C	365	370	<.001	<.10
73	RL-70C	370	375	0.010	<.10
74	RL-70C	375	380	<.001	<.10
75	RL-70C	380	385	<.001	<.10
76	RL-70C	385	390	<.001	<.10
77	RL-70C	390	395	<.001	<.10
78	RL-70C	395	400	<.001	<.10
79	RL-70C	400	405	<.001	<.10
80	RL-70C	405	410	<.001	<.10
81	RL-70C	410	415	<.001	<.10
82	RL-70C	415	420	<.001	<.10

	Sample I.D.			Au o/t	Ag o/t
83	RL-70C	420	425	<.001	<.10
84	RL-70C	425	430	<.001	<.10
85	RL-70C	430	435	<.001	<.10
86	RL-70C	435	440	<.001	<.10
87	RL-70C	440	445	<.001	<.10
88	RL-70C	445	450	<.001	<.10
89	RL-70C	450	455	<.001	<.10
90	RL-70C	455	460	<.001	<.10
91	RL-70C	460	465	<.001	<.10
92	RL-70C	465	470	<.001	<.10
93	RL-70C	470	476	0.002	<.10

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This report reviewed and approved by:

Richard A. Grondin

Richard Grondin, Operations Manager

NEVADA GSI

APR 24 1990

GEOCHEMICAL ANALYSIS REPORT

April 19, 1990

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

Number of Samples: 54
Project: URBD
GSI Number: 6922
Analysis: Fire Assay for Gold and Silver, with an A.A. finish.

	Sample I.D.			Au o/t	Ag o/t
1	RL-70C	476	481	0.003	<.10
2	RL-70C	481	486	0.003	<.10
3	RL-70C	486	491	0.004	<.10
4	RL-70C	491	496	0.002	<.10
5	RL-70C	496	501	0.001	<.10
6	RL-70C	501	506	0.001	<.10
7	RL-70C	506	511	0.002	<.10
8	RL-70C	511	516	0.003	<.10
9	RL-70C	516	521	0.011	<.10
10	RL-70C	521	526	0.002	<.10
11	RL-70C	526	531	<.001	<.10
12	RL-70C	531	536	0.005	<.10
13	RL-70C	536	541	<.001	<.10
14	RL-70C	541	546	<.001	<.10
15	RL-70C	546	551	<.001	<.10
16	RL-70C	551	556	<.001	<.10
17	RL-70C	556	561	<.001	<.10
18	RL-70C	561	566	0.003	<.10
19	RL-70C	566	571	0.004	<.10
20	RL-70C	571	576	<.001	<.10
21	RL-70C	576	580	0.004	<.10
22	RL-70C	580	585	0.019	<.10
23	RL-70C	585	590	0.002	<.10
24	RL-70C	590	595	0.005	<.10
25	RL-70C	595	600	0.008	<.10
26	RL-70C	600	605	0.004	<.10
27	RL-70C	605	610	0.004	<.10
28	RL-70C	610	615	0.006	<.10
29	RL-70C	615	620	<.001	<.10
30	RL-70C	620	625	<.001	<.10
31	RL-70C	625	630	0.004	<.10
32	RL-70C	630	635	<.001	<.10
33	RL-70C	635	640	0.021	<.10
34	RL-70C	640	645	0.026	<.10

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	Sample I.D.			Au o/t	Ag o/t
35	RL-70C	645	650	0.041	<.10
36	RL-70C	650	655	0.003	<.10
37	RL-70C	660	665	0.006	0.20
38	RL-70C	655	660	0.016	0.11
39	RL-70C	665	670	0.005	0.13
40	RL-70C	670	675	0.006	0.10
41	RL-70C	675	680	0.006	<.10
42	RL-70C	680	685	0.005	<.10
43	RL-70C	685	690	0.032	0.10
44	RL-70C	690	695	0.005	<.10
45	RL-70C	695	700	0.026	<.10
46	RL-70C	700	705	0.005	<.10
47	RL-70C	705	710	0.029	<.10
48	RL-70C	710	715	0.033	<.10
49	RL-70C	715	720	0.044	0.19
50	RL-70C	720	725	0.021	<.10
51	RL-70C	725	730	0.018	<.10
52	RL-70C	730	732	0.014	<.10
53	RL-70C	732	736	0.009	<.10
54	RL-70C	736	741	0.015	<.10

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This report reviewed and apporved by:

Richard A. Grondin

Richard Grondin, Operations Manager

NEVADA GSI

APR 20 1990

GEOCHEMICAL ANALYSIS REPORT

April 17, 1990

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

Number of Samples: 21
Project #: URBD
GSI #: 6910
Analysis: Fire Assay for Gold and Silver, with an A.A. finish.

	Sample I.D.			Au o/t	Ag o/t
1	RL-70C	795	800	<.001	<.10
2	RL-70C	800	805	0.010	0.13
3	RL-70C	805	810	0.006	<.10
4	RL-70C	810	815	0.010	0.12
5	RL-70C	815	820	0.005	<.10
6	RL-70C	820	825	0.004	<.10
7	RL-70C	825	830	0.004	<.10
8	RL-70C	830	835	0.002	<.10
9	RL-70C	835	840	0.004	<.10
10	RL-70C	840	845	0.005	<.10
11	RL-70C	845	850	0.001	<.10
12	RL-70C	850	855	0.002	<.10
13	RL-70C	855	860	0.083	<.10
14	RL-70C	860	865	0.023	<.10
15	RL-70C	865	870	0.004	<.10
16	RL-70C	870	875	0.003	<.10
17	RL-70C	875	880	0.004	<.10
18	RL-70C	880	885	0.007	<.10
19	RL-70C	885	890	0.003	<.10
20	RL-70C	890	893.7	0.002	<.10
21	RL-70C	893.7	899	<.001	<.10

This report reviewed and approved by:

Richard Grondin, Operations Manager

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NEVADA GSI

APR 20 1990

GEOCHEMICAL ANALYSIS REPORT

April 18, 1990

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

ENTERED on LOG

Number of Samples: 21
Project: URBD
GSI Number: 6930
Analysis: Fire Assay for Gold and Silver, with an A.A. finish.

	Sample I.D.			Au o/t	Ag o/t
1.	RL-70C	741	746	0.004	<.10
2.	RL-70C	746	751	0.006	<.10
3.	RL-70C	751	756	0.001	<.10
4.	RL-70C	756	761	0.003	<.10
5.	RL-70C	761	766	0.005	<.10
6.	RL-70C	766	771	0.006	<.10
7.	RL-70C	771	776	0.009	<.10
8.	RL-70C	776	781	<.001	<.10
9.	RL-70C	781	786	<.001	<.10
10.	RL-70C	786	790	<.001	<.10
11.	RL-70C	790	795	<.001	<.10
12.	RL-70C	899	904	0.002	<.10
13.	RL-70C	904	909	0.001	<.10
14.	RL-70C	909	915	0.001	<.10
15.	RL-70C	915	918	0.003	<.10
16.	RL-70C	918	923	0.002	<.10
17.	RL-70C	923	928	0.002	<.10
18.	RL-70C	928	932	0.003	<.10
19.	RL-70C	932	937	0.002	<.10
20.	RL-70C	937	940	0.003	<.10
21.	RL-70C	942	945	0.005	<.10

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This report reviewed and approved by:

Richard A. Grondin

Richard Grondin, Operations Manager

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NEVADA GSI

MAY 21 1990

GEOCHEMICAL ANALYSIS REPORT

May 16, 1990

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

Number of Samples: 14
Project #: URBD
GSI #: 7133
Analysis: Fire Assay for Gold and Silver, with an A.A. finish.

	Sample I.D.			Au o/t	Ag o/t
1	RL-70C	945	950	0.003	-0.10
2	RL-70C	950	955	0.001	-0.10
3	RL-70C	955	960	0.001	-0.10
4	RL-70C	960	965	0.002	-0.10
5	RL-70C	965	970	0.002	-0.10
6	RL-70C	970	975	0.001	-0.10
7	RL-70C	975	980	0.002	-0.10
8	RL-70C	980	985	0.001	-0.10
9	RL-70C	985	990	0.001	-0.10
10	RL-70C	990	995	0.006	-0.10
11	RL-70C	995	1000	0.001	-0.10
12	RL-70C	1000	1005	0.001	-0.10
13	RL-70C	1005	1010	0.002	-0.10
14	RL-70C	1010	1012	0.002	-0.10

This report reviewed and approved by:

Richard A. Grondin

Richard Grondin, Operations Manager

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

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

REPORT: R91-10373.4

DATE PRINTED: 7-MAR-91
PROJECT: 75351

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AU Dup OPT
P4 RE35 475-480		0.012		
P4 RE35 480-485		0.018		
P4 RE35 485-490		0.023		
P4 RE35 490-495		0.044		
P4 RE35 495-500		0.023		
P4 RE35 500-505		0.024		
P4 RE35 505-510		0.003		
P4 RE35 510-515		0.080		
P4 RE35 515-520		0.009		
P4 RE35 520-525		0.003		
P4 RE35 525-530		0.009		
P4 RE35 530-535		0.020		
P4 RE35 535-540		0.035		
P4 RE35 540-545		0.021		
P4 RE58 555-560		0.015		
P4 RE58 560-565		0.018		
P4 RE58 565-570		0.036		
P4 RE58 570-575		0.117	0.132	
P4 RE58 575-580		0.028		
P4 RE58 580-585		0.031		
P4 RE58 585-590		0.019		
P4 RE58 590-595		0.012		
P4 RE58 595-600		0.016		
P4 RE65 330-335		0.004		
P4 RE65 335-340		0.008		
P4 RE65 340-345		0.005		
P4 RE65 345-350		0.011		
P4 RE65 350-355		0.035		
P4 RE65 355-360		0.192		
P4 RE65 360-365		0.039		
P4 RE65 365-370		0.026		
P4 RE65 370-375		0.053		
P4 RE65 375-380		0.025		
P4 RE65 380-385		0.022		
P4 RE65 385-390		0.014		
P4 RE65 390-395		0.031		
P4 RE65 395-400		0.025		
P4 RE65 400-405		0.059		
P4 RE65 405-410		0.035		
P4 RE65 410-415		0.007		

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AU Dup OPT
P4 RE65 415-420		0.010		
P4 RE65 420-425		0.008		
P4 RE65 425-430		0.008		
P4 RE65 430-435		0.008		
P4 RE65 435-440		0.005		
P4 RE67 560-565		0.008		
P4 RE67 565-570		0.003		
P4 RE67 570-575		0.048		
P4 RE67 575-580		0.041		
P4 RE67 580-585		0.007		
P4 RE67 585-590		0.007		
P4 RE67 590-595		0.021		
P4 RE67 595-600		0.003		
P4 RE67 600-605		0.005		
P4 RE67 605-610		0.005		
P4 RE67 610-615		0.003		
P4 RE67 615-620		0.012		
P4 RE67 620-625		0.015		
P4 RE67 625-630		0.008		
P4 RE67 630-635		0.008		
P4 RE67 635-640		0.063		
P4 RE67 750-755		0.026		
P4 RE67 755-760		0.024		
P4 RE67 760-765		0.009		
P4 RE67 765-770		0.004		
P4 RE67 770-775		0.003		
P4 RE67 775-780		0.010		
P4 RE67 780-785		0.013		
P4 RE67 785-790		0.012		
P4 RE67 790-795		0.006		
P4 RE67 795-800		0.009		
P4 RE67 800-805		0.008		
P4 RL70C 635-640		0.017		
P4 RL70C 640-645		0.038		
P4 RL70C 645-650		0.051		
P4 RL70C 650-655		0.006		
P4 RL70C 655-660		0.017		
P4 RL70C 660-665		0.004		
P4 RL70C 665-670		0.075		
P4 RL70C 670-675		0.006		

KLK
10-8-90

Summary LOG RL-70 C

0 - 300.5 CLASSIC BEDDED BUD w/ variations
LITHIC LAPILLI TUFF
0-143 LITHIC LAPILLI
143-169 FGT w/ local Volc. bxa
169-172 chicken pox pyro.
172-175 FGT
175-182 Volc. bxa
182-197 chicken pox pyro.
197-244 FGT to volc. bxa
244-300.5 green bedded bud
255-283 whispy

300.5-405 FGT green w/ local primary volc. bxa
405-426 Tuffaceous - local volc. bxa green into burg + green
426-447 FGT - burg + green
447-472 Intrusive fine gr. burg
472-801.8 FGT w/ variations: ① local volc bxa
② speckled
③ pseudo flowbanded

801.8-893.7 FGT - w/ secondary brecciation
flesh coloration w/ str. veining

893.7-915 GREEN LITHIC LAPILLI TUFF
(BEDDED BUD CHARACTERISTICS)

915-917 CHALCEDONIC hydrothermal breccia zone

917-931.5 FAULT GOUGE + RUBBLE

931.5-1012 DOZER FGT - welded