DRILL LOGS RL-100C
Rosebud

4010 0035

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

DRILL LOG SUMMARY SHEET

PROJECT ROSEBUD

HOLE NUMBER RL-100 TOTAL DEPTH 1168.5' LOGGED BY DAM/CAT

Date started 7/29/90

Date completed 8-3-90

Initial bearing S55E

Initial inclination -60°

Elevation 5269'

Collar coordinates:

N 2204656

E 481,915.7

Contractor: COATES

Drill Type: HDR

Hole Size: 9 3/4 RC, NX CORE

Drilling Conditions: RC TO 381.5', NX CORE TO

Footage: Wet / Dry WET AT ~370'

Comments: COMPRESSOR NOT WORKING START CORE AT 381.5 NEW BIT AT 387.5

DOWN HOLE SURVEY INFORMATION

FROM	TO	SURVEY POINT	INCLI-NATION	BEARING	X (Northing)	Y (Easting)	Z (Elevation)
0	50		-60	S55E			
50	200	100	-61°	S63E			
200	400	300	-61°	S62E			
400	601	500	-61°	S61E			
601	801	702	-61.5°	S61E			
801	1000	900	-62°	S63E			
1000	1134	1100	-62°	S65E			
1134	1168.5	1168.5	-62°	S63E			

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-100

Page 1 of 4

LOGGED BY DAN

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK
		~ XX							LT GREY				+/- 1%	0-345 COARSE GRAINED TO LITHIC LAPILLI (≈ 4mm CLASTS) TUFF	.004	<	
05														GENERALLY GREEN, LOCALLY SILICIFIED AND/OR CLAY			
10														ALTERED, KAOLIN FRACTURES?	.002		
15														0-75 WK SILICIFIED, WK BLEACHED COARSE TO LAPILLI (LITHIC) TUFF + FINE SULFIDES	.002		
20															.001		
25															.001		
30															.002		
35															.001		
40															.002	.12	
45															.001	<	
50									LT GREY						.001		
55									BEIGE						.001		
60															.001		
65													< 1%		.002		
70															.001		
75															.002		
80									GREEN					75-140 WK CLAY (SMECTITE? GLAUCONITE? ALTERATION) DEVITRIFIED SUCROSE	.002		
85															.002		
90															< .001		
95															.001		
100															.005		

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P P P PROPYLITIZATION
Ca CALCITE

DRILL HOLE RC-100

Page 2 of 4

LOGGED BY DAM

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	
									GREEN				<1%		.002	<		
05																		
10															.001	<		
															.002	<		
15																		
															.001	.17		
20															<	<		
25																		
															.001			
30																		
															<			
35																		
															<			
40																		
															<			
45									GREEN				<1%	(LITHIC LAPILLI TUFF)				
50															<			
															<			
55																		
															<			
60																		
															<			
65																		
															.001			
70																		
															<			
75																		
															.001	.16		
80																		
															<	<		
85																		
															<	.10		
90																		
															<	<		
95																		
100															<	<		

LAC MINERALS (U.S.A.) INC.
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DRILL HOLE RL-100

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LOGGED BY PAM

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	
									DK GREEN						<	<		
05																		
10																<		
15																.18		
20																<		
25																		
30																		
35																		
40																		
45																		
50																		
55																		
60									RED BROWN					265 - RED BROWN FN GRAIN DIKE?				
65									GREEN GREY					(LITHIC LAPPILLI TUFF (CONT))				
70									LT RED BROWN									
75																		
80																		
85																		
90																		
95																		
00																.11		

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

CHOCOLATE TUFF
BUD BRECCIA
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DRILL HOLE RL-100

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LOGGED BY DAM

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK
									GREEN				4%		.002	.14	
05															<	<	
10																	
15																	
20																	
25																	
30																	
35															.003	.16	
40															<	<	
45		~							ROSE TAN					345-381.5 FINE GRAIN TUFF - WK-MOD BLEACHED, MINOR DRUZY QTZ MINOR SULFIDES	<	.11	
50															.026	.12	
55															<	<	
60															.001	<	
65															<	<	
70		XX XX													.004	<	
75		XX													.002	<	
80														T.D. = 381.5	.007	<	
85																	
90																	
95																	
00																	

HOLE # RL-100 LOGGED BY CMW DATE 10-90 PAGE 1 OF 12

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	ALTER.
381.5	100	None	None	None		m-str arg
385						
390	97		Minor stringers & veins	Minor py + qtz		
400	100					
			None	None		wk arg
410	99		Crackle Bx'd	FeOx on thin fracts		
420	100	clay matrix fol'd at ~35° to c.a	None	None		w-m arg
430	100		Rare veins	Rare Calc veins		
440	99					
450						

DESCRIPTION

R.C. to 381.5

381.5 - 395.2 BUD Blue-green lithic lapilli tuff? or is part of bxa texture 2ndary? Overall mod-str argillized - can easily scratch w/ fingernail.

Matrix supported w/ 15-25% clasts. Clasts subang., avg 3mm - 1.5cm, brown or dk green. Floating in clayey med-blue-green matrix.

395.2 - 406 TMB? Pinkish-grey to pinkish tan f.gr. porphyritic tuff. f.gr. pink-grey / tan groundmass w/ ~ 4% ▭ 2-5mm white plag or sanidine phenos & ~2% tiny (1/4 - 1mm) dark phenos. (Similar to Chocolate OR Tmb)

W/ minor to wk/mod thin stringers & veinlets of py + qtz (1/8" wide, 4 to 6 per foot)

406 - 413.5 Blue-green lithic lapilli tuff? (Think bxa text is primary) Overall wk. argillized. Clasts comprise 20-35%, angular; green, white & tan; avg 3mm to 2cm.

413.5 - 421 TMB? Pale pink-grey to green-grey f.gr. porphyritic tuff, w/ ~3-5% 1-4mm white plag/sanidine phenos.

413.5' - 415' is crackle-bx'd.

415' - 420' abt thin fractures & 'spider web' of FeOx

420' - 421' crackle to matrix supported bxa, darker grey color

421 - 428 BUD Lithic lapilli tuff; 1/4 - 2cm angular brown frags in dull med-green f.gr. matrix. Matrix is soft (scratch w/ fingernail) & clayey & has a 'foliation' at ~ 30° - 40° to c.a. Brown frags are hard (but scratched by metal) & very f.gr. (similar to red-brown ugly rock. Clasts comprise ~25% (matrix supported)

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
381.5-386				.001	L
386-391.5				L	
391.5-395.2				.002	
395.2-401				.004	
401-406				.001	.43
406-411				L	L
411-416				L	L

HOLE # RL-100 LOGGED BY CMW DATE 10-9-10 PAGE 2 OF 12

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	ALTER.	DESCRIPTION	ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
460, 470, 480, 490, 500, 510, 520	98, 100, 98, 98, 100, 100, 100	fol'n at 35° to c.a. (35°)	None to rare vnlts	Rare calc vnlts			BUD 428-504 Red-brown-grey lithic lapilli tuff: Dark purplish-grey to dk red-brown f.gr. clayey matrix (adsorbs H_2O), matrix 'foliated' at ~35° to c.a.; sometimes has 'wispy' appearance. Matrix supported. Clasts comprise 25-40%; generally unsorted to poorly sorted, sizes range from ~2 mm to ~2cm, appear to be somewhat bedded – long axis ∥ to matrix fol'n. Clasts are red-brown, dk grey & med grey. Angular. [This is somewhat texturally like wispy green Bud, but clasts & color are different] BUD 504-530.7 Dull green & dk grey lithic lapilli tuff: generally the same as above except that ½ to all of matrix & some clasts are green; green becomes more predominant ↓. Again matrix is soft & clayey, locally wispy or foliated (at ~40° to c.a.) Rare calcite veinlets (1/16"-⅛" wide) Contact at 530.7 appears 'conformable'						

HOLE # RL-100 LOGGED BY CMW DATE 10-90 PAGE 3 OF 12

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	ALTER.
	99	fol'n at ~35°	None	None		
530		Contact at ~40° None	Thin fracts None			propyl?
	97					
540						
	100		W-M thin fracts & vnlts at 40°	FeOx out from fracts		
550						
	103		None	None		
560						
	94		Thin fracts & rare vnlts	Thin fracts w/ dk green chlor? & rare calc vnlts		
570						
	96					
580			Wk vnlts w-m fracts	Wk calc + py vnlts		Wk Arg
	100					
590						

DESCRIPTION

530.7 ~ 758 — LBT

f. gr. tuff; generally dull lt-med grey-green color. Generally contains 2-5% tiny (1/8-1/4 mm) mafic phenos. Generally w/ weak thin fract's, but locally has fine 'spider web' network very thin fracts, & other places it is crackle bx'd. Some places see subdued clastic texture.

530.7-538: dull grey green; w/ thin fracts near 'conformable' contact↑

538-543: dk purplish brown w/ irregular blobs grey green color (texture I might have called amygdules - but probably is differential oxidation) No veining. Green blobs fizz - propylitic?

543-556: med-dk grey green w/ tiny dk phenos, mod-abt fract's, ~40-45° to c.a. is predominant. Get dk red-brown FeOx selvage outward from veinlets & fracts. (1/8-1/4")

This appears to be a green version of Red-Brown Ugly Rock.

556-560: dk purplish brown w/ irregular blobs grey-green. No veining.

560-577: Subdued clastic (lapilli?) texture, clasts same composition but med green as opposed to darker blue-green groundmass. Clasts vary from few mm to >10 cm (tuff bxa?) & contain thin fracts w/ dk green chlor? 570

Rare 1/8" wide calcite veinlets (< 1/ft). Parts of groundmass fizz too - propyl?

577-593: Weakly bleached to pale green. Abt very thin fracts w/ dk green chlor? Weak calc + py veinlets: 1/16"-1/8" wide, 1 to 4 per foot. Rare kaol + Mc. Rare ▭ barite. Prob wk-mod arg.

590

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
572-577				✓	✓
577-582				✓	.23
582-587				✓	✓
587-				✓	✓

HOLE # RL-100 LOGGED BY CMW DATE 10-90 PAGE 4 OF 12

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	ALTER.
	109	None	⊥ Thin fracts & rare vnlts	⊥ DK green chlor on v. thin fracts & rare calc vnlts		Arg ⊥ propl
600	98					
610	102					
620	96					
630	102					
640	100					
650	98					
660						

DESCRIPTION

5307-758 cont

593-682: med gray-green to blue green f.gr. tuff w/ ~ 3-5% tiny dark & mafic phenos? Generally subdued mottled text, locally w/ subdued clastic texture.
Minor very thin fracts w/ dk green chlor?: Rare calc vnlts.
Local 1' zones of crackle bx'n
Generally mod (?) propylitized - whole rock fizzes somewhat.

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
592				✓	✓
592-597				✓	
597-602				✓	
602-607				✓	
607-612				✓	
612-617				✓	
617-622				✓	
622-627				✓	
627-632				✓	
632-637				✓	
637-642				✓	
642-647				✓	
647-652				✓	
652-657				✓	
657-					

HOLE # RL-100 LOGGED BY CMW DATE 10-90 PAGE 5 OF 12

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	ALTER.
	100	None	rare thin vnlts	rare calc vnlts		propl
670	98					
680	98		Crackle Bx'd	Dk green c chlor? on fracts		
690	100		Wk veinlts	Qtz + Py or Mc & Kaol + py		
700	99					
710	100					
720	99		Crackle Bx'd + minor vnlts	Dr Q + Mc Some barite Kaol & py	A, D	
730						

DESCRIPTION

530.7-758 cont

682-695: Crackle bx'd, med grey-green w/ ~5% dk grey 1mm specks c py after biotite? Thin fracts → crackle bx'd, w/ dk green c chlor? on fracts.

695-723.5: f.gr. generally finely mottled grey-green & blue green or lt green (can only see mottling w/ hand lens)

Mod? propylitized - fizzes.

Weak veining (1/16"-1/4", 2 to 5 / foot) qtz + Py or Mc & less Kaol + py. Some of py & Mc is euhedral

723.5-733: Crackle Bx'd & slightly bleached to pale green: Dk green c chlor? on thin fracts. 725-726 is more strongly bx'd & has mod amnt drusy qtz vug w/ marcasite. At 727 have 3" w/ barite + Mc + kaol. Minor py + qtz or kaol veinlets. Can see pale specks - bleached tiny mafic phenos

ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
-662				<	<
662-667				.01	.11
667-672				<	<
672-677				<	
677-682				<	
682-687				<	
687-692				<	
692-697				<	
697-702				<	
702-707				<	.16
707-712				<	<
712-717				<	
717-723.5				.002	
723.5-728				.01	

HOLE # RL-100 LOGGED BY CMW DATE 10-90 PAGE 6 OF 12

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	ALTER.
740	100	None	Mod. thin fracts	Dk green chlor? ± py, minor calc		propl
750	100					
760	99			Minor calc		
770	100		Thin fracts	Thin calc + FeOx		
780	106					
790	94					
800	97		Mod thin fracts wk veinny	Chlor? + py ± FeOx ± Kaol		
	100					

DESCRIPTION

530.7-758 cont.

733-758: Subdued clastic texture (lithic lapilli tuff to tuff bxa); clasts same composition, but they are lt green & matrix is med-dk grey or blue-green. Clasts are angular, <3 mm to >15 cm. Matrix supported. Clasts contain ~5% tiny (1/4 mm) dk green phenos. Thin fracts w/ dk green chlorite? ± py. Minor 1/8" calc. vnlts.

758 ~ 768 Transition zone between ↑ and below ↓. Grades from mottled dk green & purplish brown to dk purple-grey w/ med-grey mottles to dk green-grey crackle bx'd to 'Red-brown Ugly Rock'

768-791 'Red-brown ugly rock' Dk grey f.gr. dense rock w/ mod. amnt thin fractures w/ thin (<1/16") calcite veinlet at ctr. & red brown FeOx 1/8" to 1/4" outward on both sides. Breaks into sharp edges ▯ at 30-60° to c.a.

791-820.5 Green version of 'R.B.U.R.' Med-dk dull green-grey color w/ ~2-4% tiny dk green mafic phenos (<1/4 mm). Mod amnt thin fract w/ dk green chlor? ± py or w/ brown FeOx. Breaks at sharp angles as above

793-798: More fract'd & w/ white Kaol ± py veinlets (~1/foot, 1/8"-1/4" wide)

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
-733				<	<
733-737				<	
737-742				<	
742-747				<	
747-752				<	
752-757				<	
757-762				<	
762-767				<	
767-772				<	
772-777				<	
777-782				<	
782-787				<	
787-792				<	
792-799.5				.006	

HOLE # RL-100 LOGGED BY CMW DATE 10-90 PAGE 7 OF 12

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	ALTER.
810	95	None	Mod thin fracts	Chlor? + py		
820	95		Mod veined & fractd	py+ qtz, py+ dk green Chlor, Kaol ± py		
830	93					
840	94					
850	95		Mod-str veined & fract			
860	95		Mod veined & fract; Bx'd			
870			Mod veined & fractd			

DESCRIPTION

820.5-879 Green R-B.U.R. becomes more bleached & more veined.

Pale-med grey-green (f.gr. tuff?) w/ ~ 2-4% tiny dk green phenos. Mod-abt thin fracts (1/inch, 1/32" wide) w/ dk green ¿chlor? ± py.

Fairly hard (scratch w/ metal but not w/ quartz)

Mod to locally mod-str veinlets py+qtz, py+dkgreen ¿chlor?, & minor white kaol ± py. (4-12 1/8"-1/4" veinlets/ft)

Some pods 'buckshot py'

Local 1" 'vein bxa's'

862'-863' more str bx'd (healed)

ASSAYS

Sample No.	% Cu	% Pb		oz/t Au	oz/t Ag
804.5				.001	<
804.5-809.5				<	
809.4-814.5				.01	
814.5-820				<	
820-825				<	
825-830				<	
830-835				<	
835-840				.005	.13
840-845				<	<
845-850				.02	<
850-855				.008	.1
855-861				.007	<
861-866				.042	.16
866-871.5				.006	<

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	ALTER.
	98	None	Mod veined & fract	dk green chlor? + py, py + qtz		
880	100		Mod fract & veined; Bx'd	Qtz + py; DK green chlor? + py		m-str Arg
890	94		Mod fract & veined; Bx'd			
900	97		Mod fr & veined; Bx'd			
910	98		Mod vnlts	White kaol + lessor Qtz + py; DrQ + Mc; Qtz + py		
920	94					
930	100		Mod vnlts	DrQ + Mc ± Kaol + Q + py ± chlor		
940						

DESCRIPTION

LBT

879 - 917 Appears to be same protolith as above, but more strongly alt'd & veined & locally bx'd.
Mottled pale-med green, grey & flesh; mod-str-argillized: clayey surface, often can scratch w/ fingernail.
Texture varies from abt. fractures to crackle bx'd to subang to subrounded clasts, matrix supported - grey to purplish-grey
Mod veining: dk green chlorite? + py, minor white kaol (increased 907 ↓)
Generally pretty bugged rock
907 - 914: White kaol veining, sometimes discolored to mustard yellow color, + minor drusy qtz + Mc & qtz + py veinlets & vugs.

917 - 931 Med - dk blue-green f.g Ø tuff (?) w/ ~ 2-4% tiny dk green phenos.
Some blobs 'buckshot py'
Mod Qtz + py veinlets: 1/16" - 1/4" wide, 3-6 / ft.

931 - 938.5 Pale-med blue-green f.g. Ø tuff (?) w/ ~2-4% tiny dk green phenos (bleached version of above) Few 1" - 4" zones, somewhat bx'd, drusy qtz + Mc + white kaol ± dk green chlor?
Also mod qtz + py ± dk green chlor vnlts (1/16" - 1/4" 4-8 / ft)

ASSAYS

Sample No.	% Cu	% Pb	Au	oz/t Au	oz/t Ag
871.5 - 877				.001	L
877 - 882				.004	L
882 - 887				.003	L
887 - 892				.137	L
892 - 896				.002	L
896 - 901				.012	L
901 - 906				.103	L
906 - 911				.149	.10
911 - 916				.030	L
916 - 921.5				.003	L
921.5 - 926.5				.008	L
926.5 - 930.5				.002	L
930.5 - 936.5				.263	.29
936.5 - 940.5			.559	.350	.65

HOLE # RL-100 LOGGED BY CMW DATE 10-90 PAGE 9 OF 12

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	ALTER.
940	80	None	⊥ M-str veining & well broken up	py + Q± white Kaol & clay & chlor?		W-M Arg
950	86					
960	96					
970	90					
980	103					
990	90		Bx'd Zone (fault?)	qtz + Kaol ± py		Silic
1000	100					
1010						

DESCRIPTION

938.5-993 Pale green & pale pink/flesh f.gr. ø tuff ~ 2-4% tiny dk.-green phenos.
Core is fairly well broken up & is mod bleached & somewhat argillized - gen. can barely scratch w/ plastic ruler, but many pieces can be broken by hand; & there are some rubbly clayey zones.
M-str veining: (3-10/ft, 1/8"-1/4" wide) py + qtz ± white kaol, white kaol, pale grey clay (kaol?) & dk greenish chlorite? on thin fracts.

993-1027 Bxa / fault zone

993-1000.5: Bx'd tuff (of above tuff) Rotated clasts comprise ~85%, matrix white to lt grey & Silica + kaol.? ± py. Flesh & med grey green color.
1000.5-1001.5: Chunks of milky white silic bxa in porous med-grey siliceous material.
1001.5-1015 pale-Med-green silicified bxa w/ ~25% relatively small clasts (5mm), difficult to distinguish from groundmass. Milky qtz ± kaol ± py veinlets At least 2 phases of bx'n
1015-1021.5; Pale-med grey colored clasts, gen. clast supported. 2 types matrix: 1) white qtz ± kaol & 2) dk grey silica + ? Some vugs w/ barite, stibnite & other steel grey mineral (Ag-rich?)
1021.5-1024.5: Crackle bx'd to clast supported bxa Pale grey-green & flesh color. Q+z + dk grey? ± py matrix / veinlets Minor kaol veinlet

ASSAYS

Sample No.	% Cu	% Pb	Ag	oz/t Au	oz/t Ag
940.5-945.5				.123	<
945.5-949.5			.191	.332	.42
949.5-955			.327	.321	.60
955-960				.189	.18
960-965			.482	.330	.71
965-970.5				.013	<
970.5-976				.059	.11
976-981				.116	<
981-986				.107	.29
986-991			.397	.300	.7
991-996			.545	.430	2.54
996-1001.5				.152	3.83
1001.5-1006.5				.020	1.88
1006.5-1011.5				.039	5.77

HOLE # RL-100 LOGGED BY CMW DATE 10-90 PAGE 10 OF 12

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	ALTER.
1010	96	None	Bx'd Zone (fault?)	Qtz+ Kaol ± py		Silic
	95			Q+ Kaol barite stibnite steel grey?		
1020				Q+py ± dark grey?		
				Kaol + DK-grey		wk silic?
	100		None	None		
1030			wk veining	wk Q+py		
	99		Rubble	None		
			wk veining	wk Q+py		
1040			Crackle to wk bx'n	Q+ Mc/py + grey? Kaol + Mc		
	100		wk veining	wk Q+ py		
1050	87		wk bx'n	Q+py + grey		
	100		Crackle bx'd	Q+ py/Mc ± Kaol		
1060	99					
			Crackle bx'd to w-mod bx'd	Minor Q+py ± Kaol & dk grey?		wk silic
1070	100					
1080			Bxd?	wk Q+py		

DESCRIPTION

1024.5-1027: Lt grey weakly bx'd (subdued), somewhat silicified, w/ minor white kaol & dk grey? veinlets/matrix

Dozer

1027-1065 Lt grey f.gr. tuff, 'even, smooth' texture. Contains ~ 1-2% ~1/8mm dissem pg. Local bx'd zones

1027-1031: Very little veining or fractures (<1/ft) qtz + py

1031-1035.5: wk qtz + pg veining, increasing ↓ (3-6/ft, 1/16"-1/4" wide)

1035.5-1037: clayey white rubble

1037-1041: same as 1031-1035.5

1041-1046.5: Med grey color, crackle to wk bx'd, grey qtz + Mc/py ± dk grey & white kaol ± Mc veinlets/matrix. Minor barite

1046.6-1051: Same as 1031-1035.5

1051-1053: Wk.ly bx'd, qtz + pg + dk grey veining/matrix & some pods 'buckshot' py

1053-1065: Crackle bx'd, qtz + py/Mc ± white kaol on fractures/veinlets

1065-1078 Crackle bxa to barely matrix supported bxa zone. Pale dull grey-green clasts w/ red-brown stained matrix (Clasts comprise 90-95%) All prob wk silicified. Minor qtz + py ± kaol & dk grey? veinlets (2-4/ft)

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
1014.5-1016.5			.265	.540	73.03
1016.5-1022			.117	.112	17.5
1022-1027				.055	7.13
1027-1032				.003	<
1032-1037				.007	<
1037-1042				.008	3.68
1042-1046.5				.006	5.28
1046.5-1052				.006	.67
1052-1057				.007	.95
1057-1062				.006	.98
1062-1067				.008	6.97
1067-1072				.004	.31
1072-1077				.060	1.25
1077-1082				.023	5.42

HOLE # RL-100 LOGGED BY CMW DATE 10-90 PAGE 11 OF 12

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	ALTER.
1090	100	None	Bx'd ?	Wk Qtz py Minor Kaolt Mc		
1100	98					
1110	97					
1120	105		None	None		
1130	100		Abt vnlts	Qtz		Silic
1140	99		Abt thin vnlts	Qtz, Dr Q, Kaolt Mc		
1150	100		bx'd	Qtz		
			Abt thin vnlts	Qtz, Dr Q, Kaol ± Mc		
			Mod thin vnlts	Qtz, Kaolt Mc		graphitic Silic

DESCRIPTION

Dozer

1078 – 1120 Dull pale grey-green, locally grey-white f.gr. tuff. Subdued clastic/bxa texture – can't tell if depositional or 2ndary. (Think 2ndary) Difficult to see unless core is wet
Clasts: 2 mm – > 4 cm, angular, same comp as matrix
Clast to barely matrix supported.
Core mod broken-up
Wk veining – qtz + py (1-2/foot, 1/8" wide)
Few vugs w/ Kaol + Mc

1120 – 1120.8 Med-dull grey green & epiclastic? Clayey f.gr. matrix w/ 10%, 2-5 mm frags dk green rock & black Tr/Jr rock

1120.8 – 1168.5 Black Tr/Jr slates/shales w/ few White f.gr. felsic dikes (?)
1120.8 – 1131 : Mod silicified Black 'slate' w/ diss py & mod-abt thin qtz veinlets (1/16" – 1/8" wide, 1-3/inch)
1131 – 1132 : Bx'd Tr/Jr slates, 75% clasts, 25% white qtz matrix
1132 – 1142 : Very f.gr., hard, siliceous white to pale grey felsic dike? Mod-abt thin qtz veinlets, some drusy qtz, Wk-mod white Kaol ± Mc veinlets
2' inclusion of black slate 1134 – 1136'
At 1142 top of Tr/Jr slate is graphitic – baked.

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
1082 – 1087				.01	1.84
1087 – 1091				.006	.25
1091 – 1096				.002	<
1096 – 1101.5				.002	<
1101.5 – 1107				.001	<
1107 – 1112				.005	<
1112 – 1117				.005	.11
1117 – 1120.8				.002	<
1120.8 – 1127				.006	.42
1127 – 1132				.015	2.62
1132 – 1137				.004	.37
1137 – 1142				.001	<
1142 – 1147				.004	1.915
1147 – 1152				.009	1.24

HOLE # RL-100 LOGGED BY CMW DATE 10-25-90 PAGE 12 OF 12

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERAL-IZATION	GRAPHIC LOG	ALTER.	DESCRIPTION	ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
							1120.8–1168.5 cont:						
	97	Various ∠'s	Mod thin veins	Mod Qtz veins, some Kaol + Mc		Silic	1142–1155: Black 'slate' w/ diss py., & mod amnt thin qtz veinlets, Some white Kaol + Mc	1152–1157				.004	1.90
1160							1155–1156: ¿ lt grey dike? w/ ~5% dissem py. Less siliceous than dike above.	1157–1162				.008	.67
	102						1156–1168.5: Same as 1142–1155 but w/ some 1"–3" sandy layers	1162–1168.5				.006	.51
1168.5 TD													

NEVADA GSI, INC.

AUG 30 1990

GEOCHEMICAL ANALYSIS REPORT

August 27, 1990

CUST. CODE: LOA
PROJECT: URBD-79014
P.O. #: XXXX
LOT ID: 8117

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

	SAMPLE I.D.			Au o/t	Ag o/t
1.	RL-100	0	5	0.004	-.10
2.	RL-100	5	10	0.002	-.10
3.	RL-100	10	15	0.002	-.10
4.	RL-100	15	20	0.001	-.10
5.	RL-100	20	25	0.001	-.10
6.	RL-100	25	30	0.002	-.10
7.	RL-100	30	35	0.001	-.10
8.	RL-100	35	40	0.002	0.12
9.	RL-100	40	45	0.001	-.10
10.	RL-100	45	50	0.001	-.10
11.	RL-100	50	55	0.001	-.10
12.	RL-100	55	60	0.001	-.10
13.	RL-100	60	65	0.002	-.10
14.	RL-100	65	70	0.001	-.10
15.	RL-100	70	75	0.002	-.10
16.	RL-100	75	80	0.002	-.10
17.	RL-100	80	85	0.002	-.10
18.	RL-100	85	90	-0.001	-.10
19.	RL-100	90	95	0.001	-.10
20.	RL-100	95	100	0.005	-.10
21.	RL-100	100	105	0.002	-.10
22.	RL-100	105	110	0.001	-.10
23.	RL-100	110	115	0.002	-.10
24.	RL-100	115	120	0.001	0.17
25.	RL-100	120	125	-0.001	-.10
26.	RL-100	125	130	0.001	-.10
27.	RL-100	130	135	-0.001	-.10
28.	RL-100	135	140	-0.001	-.10
29.	RL-100	140	145	-0.001	-.10
30.	RL-100	145	150	-0.001	-.10

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LAC MINERALS
LOT I.D.: 8117

	SAMPLE I.D.			Au o/t	Ag o/t
31.	RL-100	150	155	-0.001	-.10
32.	RL-100	155	160	-0.001	-.10
33.	RL-100	160	165	-0.001	-.10
34.	RL-100	165	170	0.001	-.10
35.	RL-100	170	175	-0.001	-.10
36.	RL-100	175	180	0.001	0.16
37.	RL-100	180	185	-0.001	-.10
38.	RL-100	185	190	-0.001	0.10
39.	RL-100	190	195	-0.001	-.10
40.	RL-100	195	200	-0.001	-.10
41.	RL-100	200	205	-0.001	-.10
42.	RL-100	205	210	-0.001	-.10
43.	RL-100	210	215	-0.001	0.18
44.	RL-100	215	220	-0.001	-.10
45.	RL-100	220	225	-0.001	-.10
46.	RL-100	225	230	-0.001	-.10
47.	RL-100	230	235	-0.001	-.10
48.	RL-100	235	240	-0.001	-.10
49.	RL-100	240	245	-0.001	-.10
50.	RL-100	245	250	-0.001	-.10
51.	RL-100	250	255	-0.001	-.10
52.	RL-100	255	260	-0.001	-.10
53.	RL-100	260	265	-0.001	-.10
54.	RL-100	265	270	-0.001	-.10
55.	RL-100	270	275	-0.001	-.10
56.	RL-100	275	280	-0.001	-.10
57.	RL-100	280	285	-0.001	-.10
58.	RL-100	285	290	-0.001	-.10
59.	RL-100	290	295	-0.001	-.10
60.	RL-100	295	300	-0.001	0.11
61.	RL-100	300	305	0.002	0.14
62.	RL-100	305	310	-0.001	-.10
63.	RL-100	310	315	-0.001	-.10
64.	RL-100	315	320	-0.001	-.10
65.	RL-100	320	325	-0.001	-.10
66.	RL-100	325	330	-0.001	-.10
67.	RL-100	330	335	-0.001	-.10
68.	RL-100	335	340	0.003	0.16
69.	RL-100	340	345	-0.001	-.10
70.	RL-100	345	350	-0.001	0.11
71.	RL-100	350	355	0.026	0.12
72.	RL-100	355	360	-0.001	-.10
73.	RL-100	360	365	0.001	-.10

	SAMPLE I.D.			Au o/t	Ag o/t
74.	RL-100	365	370	-0.001	-.10
75.	RL-100	370	375	0.004	-.10
76.	RL-100	375	380	0.002	-.10

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This report reviewed and approved by:

Richard A. Grondin

Richard Grondin, Laboratory Director

NEVADA GSI, INC.

GEOCHEMICAL ANALYSIS REPORT

August 31, 1990

CUST. CODE: LOA
PROJECT: URBD
P.O. #: XXXX
LOT ID: 8172

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

See Job #8169 for RL-100 380-381.5

	SAMPLE I.D.			Au o/t	Ag o/t
1.	RL-100C	381.5	386	0.001	-0.10
2.	RL-100C	386	391.5	-0.001	-0.10
3.	RL-100C	391.5	395.2	0.002	-0.10
4.	RL-100C	395.2	401	0.004	-0.10
5.	RL-100C	401	406	0.001	0.43
6.	RL-100C	406	411	-0.001	-0.10
7.	RL-100C	411	416	-0.001	-0.10
8.	RL-100C	572	577	-0.001	-0.10
9.	RL-100C	577	582	-0.001	0.23
10.	RL-100C	582	587	-0.001	-0.10
11.	RL-100C	587	592	-0.001	-0.10
12.	RL-100C	592	597	-0.001	-0.10
13.	RL-100C	597	602	-0.001	-0.10
14.	RL-100C	602	607	-0.001	-0.10
15.	RL-100C	607	612	-0.001	-0.10
16.	RL-100C	612	617	-0.001	-0.10
17.	RL-100C	617	622	-0.001	-0.10
18.	RL-100C	622	627	-0.001	-0.10
19.	RL-100C	627	632	-0.001	-0.10
20.	RL-100C	632	637	-0.001	-0.10
21.	RL-100C	637	642	-0.001	-0.10
22.	RL-100C	642	647	-0.001	-0.10
23.	RL-100C	647	652	-0.001	-0.10
24.	RL-100C	652	657	-0.001	-0.10
25.	RL-100C	657	662	-0.001	-0.10
26.	RL-100C	662	667	0.010	0.11
27.	RL-100C	667	672	-0.001	-0.10
28.	RL-100C	672	677	-0.001	-0.10

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NEVADA GSI, INC.

AUG 28 1990

GEOCHEMICAL ANALYSIS REPORT

August 25, 1990

CUST. CODE: LOA
PROJECT: URBD
P.O. #: XXXX
LOT ID: 8153

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, 1 ASSAY TON GRAVIMETRIC. (CHECKS)

	SAMPLE I.D.			Au o/t	Ag o/t	Checks Au o/t
1.	RL-100C	835	840	0.005	0.13	-
2.	RL-100C	840	845	-0.001	-.10	-
3.	RL-100C	845	850	0.020	-.10	-
4.	RL-100C	850	855	0.008	0.10	-
5.	RL-100C	855	861	0.007	-.10	-
6.	RL-100C	861	866	0.042	0.16	-
7.	RL-100C	866	871.5	0.006	-.10	-
8.	RL-100C	871.5	877	0.001	-.10	-
9.	RL-100C	877	882	0.004	-.10	-
10.	RL-100C	882	887	0.003	-.10	-
11.	RL-100C	887	892	0.137	-.10	-
12.	RL-100C	892	896	0.002	-.10	-
13.	RL-100C	896	901	0.012	-.10	-
14.	RL-100C	901	906	0.103	-.10	-
15.	RL-100C	906	911	0.149	0.10	-
16.	RL-100C	911	916	0.030	-.10	-
17.	RL-100C	916	921.5	0.003	-.10	-
18.	RL-100C	921.5	926.5	0.008	-.10	-
19.	RL-100C	926.5	930.5	0.002	-.10	-
20.	RL-100C	930.5	936.5	0.263	0.29	-
21.	RL-100C	936.5	940.5	0.350	0.65	0.559
22.	RL-100C	940.5	945.5	0.123	-.10	-
23.	RL-100C	945.5	949.5	0.332	0.42	0.191
24.	RL-100C	949.5	955	0.321	0.60	0.327
25.	RL-100C	955	960	0.189	0.18	-
26.	RL-100C	960	965	0.330	0.71	0.482
27.	RL-100C	965	970.5	0.013	-.10	-
28.	RL-100C	970.5	976	0.059	0.11	-

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LAC MINERAL
LOT ID # 8172

	SAMPLE I.D.			Au o/t	Ag o/t
29.	RL-100C	677	682	-0.001	-0.10
30.	RL-100C	682	687	-0.001	-0.10
31.	RL-100C	687	692	-0.001	-0.10
32.	RL-100C	692	697	-0.001	-0.10
33.	RL-100C	697	702	-0.001	0.16
34.	RL-100C	702	707	-0.001	-0.10
35.	RL-100C	707	712	-0.001	-0.10
36.	RL-100C	712	717	-0.001	-0.10
37.	RL-100C	717	723.5	0.002	0.16
38.	RL-100C	723.5	728	0.010	-0.10
39.	RL-100C	728	733	-0.001	-0.10
40.	RL-100C	733	737	-0.001	-0.10
41.	RL-100C	737	742	-0.001	-0.10
42.	RL-100C	742	747	-0.001	-0.10
43.	RL-100C	747	752	-0.001	-0.10
44.	RL-100C	752	757	-0.001	-0.10
45.	RL-100C	757	762	-0.001	-0.10
46.	RL-100C	762	767	-0.001	-0.10
47.	RL-100C	767	772	-0.001	-0.10
48.	RL-100C	772	777	-0.001	-0.10
49.	RL-100C	777	782	-0.001	-0.10
50.	RL-100C	782	787	-0.001	-0.10
51.	RL-100C	787	792	-0.001	-0.10
52.	RL-100C	792	799.5	0.006	-0.10
53.	RL-100C	799.5	804.5	0.001	-0.10
54.	RL-100C	804.5	809.5	-0.001	-0.10
55.	RL-100C	809.5	814.5	0.010	-0.10
56.	RL-100C	814.5	820	-0.001	-0.10
57.	RL-100C	820	825	-0.001	-0.10
58.	RL-100C	825	830	-0.001	-0.10
59.	RL-100C	830	835	-0.001	-0.10

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THIS REPORT REVIEWED AND APPROVED BY:

Richard A. Grondin

RICHARD GRONDIN, LABORATORY DIRECTOR

NEVADA GSI, INC.

AUG 28 1990

GEOCHEMICAL ANALYSIS REPORT

August 25, 1990

CUST. CODE: LOA
PROJECT: URBD
P.O. #: XXXX
LOT ID: 8157

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

	SAMPLE I.D.			Au o/t	Ag o/t
1.	RL-100C	1082	1087	0.010	1.84
2.	RL-100C	1087	1091	0.006	0.25
3.	RL-100C	1091	1096	0.002	-.10
4.	RL-100C	1096	1101.5	0.002	-.10
5.	RL-100C	1101.5	1107	0.001	-.10
6.	RL-100C	1107	1112	0.005	-.10
7.	RL-100C	1112	1117	0.005	0.11
8.	RL-100C	1117	1120.8	0.002	-.10
9.	RL-100C	1120.8	1127	0.006	0.42
10.	RL-100C	1127	1132	0.015	2.62
11.	RL-100C	1132	1137	0.004	0.37
12.	RL-100C	1137	1142	0.001	-.10
13.	RL-100C	1142	1147	0.004	1.915
14.	RL-100C	1147	1152	0.009	1.24
15.	RL-100C	1152	1157	0.004	1.90
16.	RL-100C	1157	1162	0.008	0.67
17.	RL-100C	1162	1168.5	0.006	0.51
18.	C	05119		0.002	-.10
19.	C	05120		0.034	-.10
20.	C	05121		0.002	-.10
21.	C	05122		0.002	-.10

==========

This report reviewed and approved by:

Richard A. Grondin

Richard Grondin, Laboratory Director

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

NEVADA GSI, INC.

PREP QUALITY ASSURANCE CERTIFICATION

Date 8/20/90

Company LAC MINERALS

Job # 8172

Geologist N. BREWER

No. Samples 59 CORE

Sample ID	Time	Bowl #	Weight	-150 Wt.	% -150
RL-100C 411-416	10:25 AM		173.56	165.47	95.34
RL-100C 723.5-728	10:25 AM		133.77	130.51	97.56

☑ PASSED ☐ FAILED

Explanation/Actions

Approved By Richard A. Grondin

Richard Grondin, Lab Manager

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LAC MINERALS
LOT I.D. #: 8153

	SAMPLE I.D.			Au o/t	Ag o/t	Checks Au o/t
29.	RL-100C	976	981	0.116	-.10	-
30.	RL-100C	981	986	0.107	0.29	-
31.	RL-100C	986	991	0.300	0.70	0.397
32.	RL-100C	991	996	0.430	2.54	0.545
33.	RL-100C	996	1001.5	0.152	3.83	-
34.	RL-100C	1001.5	1006.5	0.020	1.88	-
35.	RL-100C	1006.5	1011.5	0.039	5.77	-
36.	RL-100C	1011.5	1016.5	0.540	73.03	0.265
37.	RL-100C	1016.5	1022	0.112	117.50	0.117
38.	RL-100C	1022	1027	0.055	7.13	-
39.	RL-100C	1027	1032	0.003	-.10	-
40.	RL-100C	1032	1037	0.007	-.10	-
41.	RL-100C	1037	1042	0.008	3.68	-
42.	RL-100C	1042	1046.5	0.006	5.28	-
43.	RL-100C	1046.5	1052	0.006	0.67	-
44.	RL-100C	1052	1057	0.007	0.95	-
45.	RL-100C	1057	1062	0.006	0.98	-
46.	RL-100C	1062	1067	0.008	6.97	-
47.	RL-100C	1067	1072	0.004	0.31	-
48.	RL-100C	1072	1077	0.066	1.25	-
49.	RL-100C	1077	1082	0.023	5.42	-

This report reviewed and approved by:

Richard A. Grondin

Richard Grondin, Laboratory Director

RL-100 8-2-90 KNT

RC Ø - 381.5

Sample Recovered	% Recovered		Sample Interval	Lithology
				- 406 mortar bed
381.5 - 391.5	100%		381.5 - 386	lt gm, to wht, perch blc, FGT w/ wk qtz sulf veins
391.5 - 402	10.2/10.5 =		386 - 391.5	
402 - 412	100%	Split	391.5 - 395.2	391.5 - 395.2
412 - 422	99%		395.2 - 401	sty clay from lt gouge zone
422 - 432	100%		401 - 406	
432 - 442	100%		406 - 411	
442 - 452	99%		411 - 416	
452 - 462	98%			
462 - 472	100%		572-577	406 - 530.7 Bed red - gm matrix lithic lapilli tuff
472 - 482	98%		577-582	
482 - 492	(2.9+ 98%		582-587	
492 - 502	100%		587-592	530.7 - 1072
502 - 512	100%	Split	592-597	lt gm FGT wk blc
512 - 522	100%		597-602	
522 - 532	99%		602-607	
532 - 542	97%		607-612	577-595
542 - 552	100%		612-617	bx, fractured, sty clay calcite - sulfide veins
552 - 562	103%		617-622	
562 - 572	94%		622-627	
572 - 582	96%		627-632	595-
582 - 592	100%		632-637	lt gm, - wht blc, local bx, Si + pyrite flooded No discernible veins to local calcite veins
592 - 602	109%		637-642	
602 - 612	98%		642-647	
612 - 622	102%		647-652	
622 - 632	96%		652-657	
632 - 642	~~(3.9+~~ 102%		657-662	
642 - 652	100%		662-667	
652 - 662	98%		667-672	
662 - 672	100%		672-677	
672 - 682	98%		677-682	
682 - 692	98%		682-687	
692 - 702	100%		687-692	
702 - 712	99%		692-697	
712 - 722	100%		697-702	
722 - 732	99%		702-707	
732 - 742	100%		707-712	

RL-100 8-2-90 KNT

Sample Recovered	% Recovered		Sample Interval	Lithology
742-752	100%		712-717	723.5-732
752-762	99%		717-723.5	Fault Zone
762-772	100%		723.5-728	
772-780	8.5/8 = 106		728-733	±770-790
780-789	8.5/9 = 94		733-737	fr grn, cut many dike?
789-799.5	10.2/10.5 = 97		737-742	
799.5-809.5	100%		742-747	* 845-±1072
809.5-820	10/10.5 = 95		747-752	peach-lt grn
820-830	95%		752-757	sly alt w/ mod-
830-837.5	7/7.5 = 93		757-762	sly xcutting Si-sulfide
837.5-846.5	8.5/9 = 94		762-767	ore
846.5-852	5.2/5.5 = 95		767-772	local sly fault 6x
852-862 (.2+	95%	S	772-777	gouge
862-871.5	9/9.5 = 95	P	777-782	
882	10.3/10.5 98	L	782-787	
892	100%	I	787-792	
900.5	8/8.5 94	T	792-799.5	
911	10.2/10.5 97		799.5-804.5	
921.5	10.3/10.5 98%		804.5-809.5	
930.5	8.5/9 = 94		809.5-814.5	
940.5	100%		814.5-820	
949.5	7.2/9 = 80		820-825	
960	9/10.5 = 86		825-830	
970.5	10.1/10.5 = 96		830-835	
981	9.5/10.5 = 90		835-840	
991	103% =		840-845	
991-1001.5	9.4/10.5 = 90		845-850	
1001.5-1011.5	(~~4.5+~~ 100%		850-855	
1011.5-1016.5	4.8/5 = 96		855-861 ✓	
1016.5-1027	10/10.5 = 95		861-866	
1037	100%		866-871.5	
1046.5	9.4/9.5 = 99	Cut	871.5-877	
1050.5	100%		877-882	
1052	1.3/1.5 = 87		882-887	
1062	100%		887-892	
1072	99%		892-896	
1082	100%		896-901	
1091	100%			
1101.5	10.3/10.5 = 98			

RL-100

Sample Received	% Recovered
1101.5 - 1112	10.2/10.5 = 97
1112 - 1122	105%
1122 - 1132	100%
1132 - 1142	99%
1142 - 1152	100%
1152 - 1162	97%
1162 - 1168.5 TD	6.6/6.5 = 102

Cut

Sample Interval
901 - 906
906 - 911
911 - 916
916 - 921.5
921.5 - 926.5
926.5 - 930.5
930.5 - 936.5
936.5 - 940.5
940.5 - 945.5
945.5 - 949.5
949.5 - 955
955 - 960
960 - 965
965 - 970.5
970.5 - 976
976 - 981
981 - 986
986 - 991
991 - 996
996 - 1001.5
1001.5 - 1006.5
1006.5 - 1011.5 ✓
1011.5 - 1016.5
1016.5 - 1022
1022 - 1027
1027 - 1032
1032 - 1037
1037 - 1042
1042 - 1046.5
1046.5 - 1052
1052 - 1057
1057 - 1062
1062 - 1067
1067 - 1072
1072 - 1077
1077 - 1082
1082 - 1087
1087 - 1091
1091 - 1096

Cut

1096 - 1101.5
1101.5 - 1107
1107 - 1112
1112 - 1117
1117 - 1120.8
1120.8 - 1127
1127 - 1132
1132 - 1137
1137 - 1142
1142 - 1147
1147 - 1152
1152 - 1157
1157 - 1162
1162 - 1168.5 TD

Lithologies

$\boxed{1072 - 1120.8}$
Hgm, fn gm lithic tuff rounded to angular lithic to +32 mm

± $\boxed{1016.5 - 1022}$
stibnite zone + lead-gray sulfosalts?

$\boxed{1120.8 - 1168.5}$
Tv/Fe content @ 1120
mixed, clastic siltstone, wkly fn gm aphitic dike(?) and blk, carb. shales

1168.5 TD

C V

SEP 5 1990

NEVADA GSI, INC.

GEOCHEMICAL ANALYSIS REPORT

August 30, 1990

CUST. CODE: LOA
PROJECT: URBD-79014
P.O. #: XXXX
LOT ID: 8169

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

	SAMPLE I.D.			Au o/t	Ag o/t
1.	RL-100	380	381.5	0.007	-0.10
2.	RL-102	0	5	0.002	-0.10
3.	RL-102	5	10	0.002	-0.10
4.	RL-102	10	15	0.001	-0.10
5.	RL-102	15	20	0.003	-0.10
6.	RL-102	20	25	0.003	-0.10
7.	RL-102	25	30	0.003	-0.10
8.	RL-102	30	35	0.003	-0.10
9.	RL-102	35	40	0.010	-0.10
10.	RL-102	40	45	0.004	-0.10
11.	RL-102	45	50	-0.001	-0.10
12.	RL-102	50	55	-0.001	-0.10
13.	RL-102	55	60	-0.001	-0.10
14.	RL-102	60	65	-0.001	-0.10
15.	RL-102	65	70	0.004	-0.10
16.	RL-102	70	75	-0.001	-0.10
17.	RL-102	75	80	-0.001	-0.10
18.	RL-102	80	85	-0.001	-0.10
19.	RL-102	85	90	-0.001	-0.10
20.	RL-102	90	95	-0.001	-0.10
21.	RL-102	95	100	-0.001	-0.10
22.	RL-102	100	105	-0.001	-0.10
23.	RL-102	105	110	-0.001	-0.10
24.	RL-102	110	115	-0.001	-0.10
25.	RL-102	115	120	-0.001	-0.10
26.	RL-102	120	125	-0.001	-0.10
27.	RL-102	125	130	-0.001	-0.10
28.	RL-102	130	135	-0.001	-0.10
29.	RL-102	135	140	-0.001	-0.10

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

Dreamland 1/4
Rock Spl

FEB 14 1991

GSI
GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

TO: Mr. Nate Brewer
LAC Minerals USA, Inc.
1395 Greg St. #107
Sparks, NV 89431 tel:702/356-8058

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Job Number: HIV-1S8961
Analysis Code: GXP15
Digest: 1 gram
PROJECT: 75351
Total number of samples: 1

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This report has been reviewed and approved by:

Nancy G. Gonzalez for Date: 2-4-91
Mary Leitch, Quality Assurance Manager

3805 Atherton Road • Rocklin, California 95677 • 916/624-6000 1/800/827-4GSI FAX: 916/624-8986
1498 Kleppe Lane • Sparks, Nevada 89431 • 702/359-6600 FAX: 702/359-6605

GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

JOB #: HIV-1S8961

SAMPLE ID	#	Ag ppm	As ppm	Au ppm	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Se ppm	Te ppm
RL-100C 1011.5-1027	1	3067	229.	4.96	155.	<.971	25.2	14.0	4710	<4.85	41.6	<2.42	<.971	<4.85	401.	<4.85

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

RL-100 LOG SUMMARY

ROTARY - by DAM
0-345 LLT
345-381.5 FGT -bl

CORE by CMW
381.5 - 395.2 blue green LLT
395.2 - 406 FGT porphyritic
406 - 413.5 blue-grn LLT
413.5 - 421 FG porphyritic Tuff
421 - 428 LLT
428 - 504 red brwn LLT wispy
504 - 530.7 LLT - green to gray wispy
530.7 - 758 FGT LBT
758 - 993 RBU - w/ local bl. zones
993 - 1027 ∆ fault zone
1027 - 1120 LBT
1120 - 1120.8 green epiclastic
1120.8 - 1168.5 black slates/shales
w/ few felsic dikes