60001337

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-106
AUTHOR	N. Brewer; R. Grondin; K. Tullar
DATE OF DOC(S)	1990
MULTI_DIST Y / (N?) Additional Dist_Nos:	
QUAD_NAME	Sulphur 7.5'
P_M_C_NAME (mine, claim & company names)	Rosebud Mine; Rosebud Project; Coates Drilling; Lac Minerals (USA) Inc
COMMODITY If not obvious	gold silver
NOTES	Drill log; geology; assay; total depth 1237'; handwritten notes 34p.

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:	mdl	
SCANNED:		

Revised: 1/22/08

DRILL LOG RL-106
Rosebud

60001337 4010

6000 1337

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

DRILL LOG SUMMARY SHEET

PROJECT Rosebud

HOLE NUMBER RL-106 TOTAL DEPTH 1237' LOGGED BY CMW

Date started 8-16-90

Date completed 8-21-90

Initial bearing S51E

Initial inclination -60°

Elevation 5300.9

Collar coordinates:

N 2204662

E 482091.7

Contractor: Coates

Drill Type: Longyear 44

Hole Size: 0-10' Tricone ; 10-TD HMQ

Drilling Conditions: S

Footage: Wet / Dry

Comments: Set 10' of casing - retrieved.

DOWN HOLE SURVEY INFORMATION

FROM	TO	SURVEY POINT	INCLI-NATION	BEARING	X (Northing)	Y (Easting)	Z (Elevation)
0	54		-60	S51E			
54	203	107	-59	S55E			
203	400	300'	-58	S55E			
400	599	500	-59	S55E			
599	797	697	-59	S57E			
797	1002	897	-59	S55E			
1002	1172	1107	-59	S55E			
1172	1237	1237 TD	-59	S58E			

CMW 10-90

HOLE # RL-106

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG
		NO RECOVERY			
10	57	None	fault? bxa ⊥ mod veining + local bx'n	FeOx ± qtz veinlts + rare Kaol	
20	99				
30	109				
	93				
40	98		fault bxa?		
50	99		weak to mod veining		
60	100				
70	99				

DESCRIPTION

0 – 10 No Recovery

10 – 306 'Chocolate in Chocolate' & lapilli tuff. Light grey color w/ ~ 5% tiny dark speckles – – 1/4 mm to 1. mm mafic phenos – biotite ± hornblende, often replaced by pyrite.
Lapilli texture is subdued; often hard to see unless wet.
Clasts are ~ identical to the matrix; angular to sub ang, unsorted (1/2 cm to > 5 cm); generally matrix supported w/ clasts comprising 30–75%.
Few 2'-4' intervals of tuff w/o lapilli clasts.

Overall, rock is prob w-m argillized/bleached, and contains minor reining (1 to 4 1/16 - 1/8" wide veinlets/foot); FeOx ± qtz to 150', py ± qtz 140 ↓, & minor white Kaol. Core most often breaks ~ ⊥ to c.a.

w/ Local rubbly/ bx'd zones, w/ FeOx ± qtz & rare Kaol (1/8 - 1/2" wide) reining at:

10-14', 19-23', 26'-29', 34-41', 53'-54', 73-74', 79-80', 101.8-104.5, 120-122'. Contains more strongly bx'd - prob fault zones at 10-11, 41-42, 53-54, 101.8-104.5.
silic matrix

w/ pinkish color to matrix: 140'~182'

w/ 'healed' bx'd text & qtz + py ± drusy qtz veinlets (1/4" to 1/2" wide):

141-142', 232'-233',

w/ 'healed' bx'd text & drusy qtz + Mc, white Kaol, & white & Kaol + qtz? veinlets (milky white, hardness between fingernail & metal); 1/8" to 1/2":

253-254, 257-258, 268-269, 287-288, 291-295

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
10-17				.001	<
17-22				<	
22-27					
27-32					
32-37					
37-42					
42-47					
47-52					
52-57					
57-62					
62-67					

HOLE # RL-106

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	DESCRIPTION	ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
		None	weak veining	minor FeOx ± qtz & rare Kaol		10-306 cont CIC	62-72				<	<
	100						72-77					
80							77-82					
	96						82-87					
90							87-92					
	100						92-97					
100			fault ?	Abt FeOx + Qz Kaol		101.8 - 104.5 Bx'd text / fault zone, subang choc frags in FeOx + qtz or kaol matrix	97-101.8				.001	
			weak to mod veining	Weak to mod FeOx + qtz or Kaol			101.8-104.5				<	<
	97						104.5-110				.001	.20
110							110-117				<	<
	99						117-122				<	<
120			Weak veining				122-127				<	<
	98						127-132				.003	<
130			mod weak veining	Weak FeOx + qtz or Kaol			132-137				<	<
	99						137-142				<	.17
140												

HOLE # RL-106

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG
	100	None	Weak Veining	Wk. FeOx or py + qtz or kaol	
150			very weak to weak veining	Wk py + qtz or kaol	
	100				
160					
	99				
170					
	95				
180					
	100				
190					
	99				
200					
	100				
210					

DESCRIPTION

10-306 cont. CJC

141-142: 6" bx'd zone w/ qtz + py ± drusy qtz matrix

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
142-147				<	<
147-152					
152-157					
157-162					
162-167					
167-172					.15
172-177					.12
177-182					<
182-187					<
187-192				.003	<
192-197				<	<
197-202				<	<
202-207				<	.10
207-212				<	.15

HOLE # RL-106

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG
	100	None	Weak Veining	Weak pyt qtz or Kaol	
220					
	100				
230					
	97				
240					
	100				
250					
	99		Wk bx'n mod veining / weak veining	grey qtz & white Kaol / wk. pyt qtz or Kaol	
260					
	99				
270					
	100				
280					

DESCRIPTION

10-306 cont: CIC

253-254: wk bx'd w/ grey qtz matrix - 2" wide zone, & 3" zone of abt white Kaol reinlets

257-258: 1" bx'd zone w/ grey qtz & 2 3/4" white & qtz + kaol? reinlets

268-269: 1" bx'd zone w/ grey qtz matrix & few 1/2" white & qtz + kaol? reinlets

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
212-217				<	.16
217-222				<	.15
222-227				.006	<
227-232				<	<
232-237				<	.10
237-242				<	.13
242-247				<	.12
247-252				<	.14
252-257				<	.15
257-262				<	<
262-267				<	<
267-272				<	<
272-277				.001	<
277-282				.001	<

HOLE # RL4D6

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG
		None	weak veining	wk. pyt qtz or Kaol	
290	97		W-M bx'n + mod veining	grey silica, white Kaol ± qtz	
300	100		Weak veining	wk pyt qtz or Kaol	
310	100	Contact None	very weak thin veining	minor pyt qtz	
320	97				
330	100				
340	98				
350	102				

DESCRIPTION

10-306 cont: CIC

287-288: wk. bx'd w/ 1/4" veinlets white Kaol & c̄ Kaol+qtz? & 1" band of grey silica, at ~45° to c.a.

291-295: mod bx'd, 1/2" to 1" angular clasts Chocolate in grey silica matrix w/ some 1" clots c̄ Kaol + qtz? & some drusy qtz ± Mc vugs.

← Contact CIC / C2C at 306'; 85°-90° to c.a.?

306-410 'Two Clast Chocolate' lithic lapilli tuff

Un-sorted, clasts ~4mm to 3 cm. Gen. clast-supported.

Pale pink-tan, grey & green colors

Two distinct types of clasts: 1) Pale-pink-tan, grey or green 'Chocolate tuff' clasts, f.g. porphyritic tuff clasts, w/~2-5% 1/4 mm dark phenos, and 2) Med green & white or med green & flesh banded clasts (pumice??) The 2nd type of clast is somewhat softer than the 'Chocolate' clasts.

Very weak qtz + py veining (1/16" to 1/8" wide), avg < 1/foot

Few 1" blebs 'buckshot py'

Overall probably weak-mod argillized.

347-347.5: 1/4" to 1/2" barite + calcite veinlets

404-410: Moderately bleached/arg w/ red-brown color to matrix.

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
282-287				.001	.11
287-292				.032	<
292-297				.005	<
297-302				.002	.19
302-307				.013	<
307-312				.001	<
312-317				<	
317-322				.001	
322-327				.001	
327-332				.014	
332-337				<	
337-342				<	
342-347				<	
347-352				.031	

HOLE # RL-106

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG
360	102	None	Very weak thin veining	minor py + qtz	
370	100				
380	102				
390	97				
400	102				
410	95	~40° to c.a	None	Rare calc. veinlts	
420	94	40°			

DESCRIPTION

306-411 cont. C2C

404-411 : Increased bleaching, matrix red-brown, as you near contact w/ Bud.

- Contact between C2C and Upper Bud at 411'; (can't tell * after sample was split) 411-412: few 1/4"-1/2" calcite veinlets near contact

411-592 'Bud' Green bedded lapilli tuff.

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
352-357				<	<
357-362				<	
362-367				<	
367-372				<	
372-377				.001	
377-382				<	
382-387				<	
387-392				<	
392-397				<	
397-402				<	
402-407				<	
407-411.4				.001	
411.4-417				.001	
417-420.4				.009	

HOLE # RL-106

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	DESCRIPTION	ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
430	97	35°-45° to c.a. 40° (well bedded)	None	Rare Calc vnlts		411-592 cont. Bedded Bud lithic lapilli tuff / epiclastic? Generally med-green color, generally mod sorted, bedding at 30° - 45° to c.a.	4204-4206				<	<
440	100					Some layers are fairly fine lapilli tuff: < 1/4 to 5 mm, some are intermediate: 3 ~ 10 mm, some are coarse & less sorted: < 3mm to > 3cm.						
450	102					Very little veining - only a few (1 every 1 or 2 feet) thin (1/4 to 1 cm) calcite veinlets						
460	102					411 ~ 468; Well-bedded fine lithic lapilli tuff and some intermediate clast size layers. Bedding at 35°-45° to c.a.						
470	102	Crude Bedding at ~40° to c.a.				468 ~ 535; Bedded coarse lithic lapilli tuff; angular clasts range from < 3mm to > 3cm, and are pale to med green, in med-dk green f.gr. matrix. Matrix supported. Poorly sorted.						
480	98	40										
490	99											

HOLE # RL-106

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERAL-IZATION	GRAPHIC LOG
500	97	Crude Bedding 30-45° to c.a. 35°	None	Rare Calc veinlts	
510	98				
520	99				
530	99				
540	99	Well-bedded 30-35° 33°			
550	100				
560	100				

DESCRIPTION

411-592 cont: Bedded Bud lithic lapilli tuff (epiclastic?)

535-547: Well-bedded, mod to well sorted fine and intermed lithic lapilli tuff. Bedding at ~ 30°-35° to c.a.

547-567: Well-bedded, ~ mod-sorted, intermed. lithic lapilli tuff; Pale green to white angular clasts (avg 1/2 to 1 1/2 cm) in med-dk green f.gr. matrix; Matrix supported, clasts comprise ~ 40%.

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag

HOLE # RL-106

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
570	99	Well-bedded 30-35° to c.a.	None	Rare Calc		411-592 cont: Bedded Bvd lithic lapilli tuff / (epiclastic?) 567-592: Mixed very fine, fine, & intermed. lithic lapilli tuff, some layers have 'wisps' Bedding at ~ 35° to c.a.						
580	99	Mod-well bedded at ~35° to c.a. 35°										
590	100	None	Bx'd Mod fract'd & w-m veined	diss py Q+py, ¿chlor? & green kaol?		Contact between Upper Bedded Bvd & Tuff marker bed at 592! 1' bx'd zone 592-593 at contact, at ~10° to c.a.	587-592				.001	<
							592-597				.002	.15
600	98					592-796.5 Tmb 'Tuff Marker Bed'; f.gr. porphyritic tuff; generally pale pinkish-grey color, w/ ~ 5% tiny <1/8-1/4 mm dark specks ⁝ - mafic phenos & ~ 2-4% 2-5 mm ¿ plag or sanidine? phenos, replaced by py, calc, kaol, & chlorite.	597-602				.001	.2
							602-607				.001	<
610	100					Generally weak to weak-mod fract'd and veined. (~6 very thin fracts & ~ 2-4 1/8" veinlets w/ qtz + py or green ¿kaol? ('duck butter') or dk blue-green ¿ chlorite? ± py.	607-612				.001	.11
							612-617				.003	<
620	99					592-597: abt fracts / crackle bx'd	617-622				.002	.14
						597-632: pink-grey color, ¿ plag? phenos replaced by py + calc mod thin fracts w/ qtz + py, dk green ¿ chlorite, & med-green ¿ kaol? (3-8 1/16" to 1/4" per foot)	622-627				.002	.18
630	101						627-632				.002	<

HOLE # RL-106

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERAL-IZATION	GRAPHIC LOG
	98	None	W-M thin vnlts & fracts	Qtz py, green ¿kaol? & chlor?	
640	98				
650	102				
660	99				
670	100				
680	98				
690	98		Weak thin vnlts		
700					

DESCRIPTION

592 - 796.5 cont

Tmb fd?

632 ~ 690: pale pink grey color, ¿ plag? phenos replaced by white kaolinite + py ± dk green ¿ chlorite. W-mod amount (3-8/inch) thin (1/8") qtz + py, green ¿ kaol?/ 'duckbutter', dk blue green ¿ chlor? ± py + minor white kaol. veinlets.

690 ~ 762: as above, but only weakly veined (1-3 1/16" veinlets per foot)

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
632-637				.005	<
637-642				.004	.13
642-647				.002	<
647-652				.002	<
652-657				.005	<
657-662				.002	<
662-667				.004	<
667-672				.002	<
672-677				.003	<
677-682				<	<
682-687				.003	<
687-692				.003	<
692-697				.002	<
697-702				.002	<

HOLE # RL-106

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG
	98	None	Weak thin vnlts	Qtz+py, green ¿kaol? & ¿chlor?	
710					
	100				
720					
	96				
730					
	80				
	99				
740					
	98				
750					
	97				
760			Weak veining	Chlor? + py & green kaol?	
	104				
770					

DESCRIPTION

592 - 796.5 cont. Tmb

762 - 796.5; pale grey color; ¿plag? phenos replaced by med-green waxy ¿kaolinite? / 'duckbutter', ± white kaol wk ~~lg~~ veined (1-2 / foot, 1/8" - 1/4") w/ dk green chlor + py & med green 'duckbutter.

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
702-707				.011	<
707-712				.002	
712-717				.002	
717-722				.002	
722-727				.001	
727-732				.002	
732-737				.003	
737-742				.003	
742-747				.003	
747-752				.004	
752-757				.001	
757-762				.001	
762-767				.001	
767-772				.001	

HOLE # RL-106

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERAL-IZATION	GRAPHIC LOG
780	105	None	Weak veining	Qtz py + green Kaol?	
790	96				
800	100		mod veining	green Kaol + Qtz + py	
810	100		weak veining		
820	100				
830	98	Wisps 35°		Calcite	
840	98				

DESCRIPTION

592-796.5 cont Tmb

Contact between Tmb and Lower Bud at ~ 796.5

796.5-939.7 Lower Bud Breccia / Lapilli Tuff (wispy)

Med-green color lithic lapilli tuff and tuff breccia. Much of this unit shows 'wispy' character.

1st 45' weakly veined w/ calcite.

Generally mod-well bedded.

796.5-831: Transitional from Tmb above to Bud. Matrix supported - med. greenish-grey color. Intermed size clasts (2-10mm) comprise 10-20%: grey, green & white; angular.

797-798: is bx'd, grey silica matrix

796.5-801: mod-amount green kaol/duckbutter veinlets

801.5: 3" bx'd zone

831-908: Bedded wispy lithic lapilli tuff. Matrix supported med green to grey-green color. Contains 25-50% clasts: 3 mm to 3 cm (intermed size) angular, green or grey-green. Matrix contains 10-20% wisps (¿pumice?) slightly darker blue-green color.

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
772-777				.007	.13
777-782				.003	.13
782-786.5				.002	<
786.5-791.5				.006	<
791.5-796.5				.001	<
796.5-801.5				.002	<
801.5-806.8				.002	.58
806.8-812				<	.36
812-817				.001	<
817-822				.001	<
822-827				<	<

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
840		Wisps at 35° to c.a.	None	None		796.5 - 939.7 cont. Lower 'wispy' Bud						
	99	35°				831-908 cont.: Wisps vary in size from (size increases ↓). Generally oriented at 35° to core axis.						
850						908-939.7: Bedded wispy Bud Bxa + lithic lapilli Tuff → larger clasts than above: 3 mm - > 6 cm. Clasts comprise 30-60% Wisps at ~ 35° to c.a.						
	96											
860												
	95											
870												
	102											
880												
	103											
890												
	101											
900												
	101											
910												

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	DESCRIPTION	ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
920	98	Wisps at 35° to c.a. 35°	None	None		796.5-939.7 cont: Lower 'wispy' Bud						
930	103					Contact between wispy Bud above & Lower Bud Tuff (LBT)? below at 939.7'. (doesn't appear to be a fault)	930'-935				.003	L
940	100	None	Crackle Bx'd	Q+py & white qtz+kaol?		939.7 ~ 978.8 f.gr. tuff (& LBT?) Mod fract'd to crackle-bx'd to locally matrix supported bx'n.	935'-939.7				.002	L
						939.7 - 958: Generally a med grey-green color w/ pink & white mottles. Overall prob w-mod argillized (scratches easily w/ plastic & sometimes w/ fingernail) Mod. veined / fract'd: 1/8" qtz+py veinlets (4/foot) & 1/4" milky white veinlets (scratched by metal) (qtz+kaol?)	939.7-943.5				L	L
							943.5-947				L	.12
950	93						947-952				L	L
							952-957				L	.13
960	100		Bx'd	Q+py Dr. qtz & qtz+kaol?		958-959: Arg rubble & 3" chunks of core showing str. bx'd ~~tex~~t	957-962				.006	.14
			Crackle bx'd				962-967				.005	L
970	100		Mod-st fract'd veinlets	Q+py, Dr qtz + Mc, & py + chlor?		959-968: Gen med-blue-green colored clast w/ brick red-flesh matrix; increase from crackle bxa to matrix supported 961-962, back to crackle bxa	967-971				L	L
						Q+py, drusy qtz, & kaol+qtz w-mod veining (4-8/foot, 1/16" - 1/8" wide)	971-975.3				.002	.12
980	94		Fault				975.3-978.8				.007	.16

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERAL-IZATION	GRAPHIC LOG
990	103	None	Fault Zone - bx'd	Dr Q + stib. & bar.	
			str. crackle bx'n	Q+Py, Dr Q ± Mc & Kaol	
1000	96				
1010	100				
1020	102		Bx'd		
			str crackle bx'n		
1030		Bedded at 50-55° to c.a.	Mod. vnlts	Kaol ± Mc OR Py	
1040		52°			
1050					

DESCRIPTION

939.7 ~ 978.8 cont:

968-978.8: pale-med grey green w/ dk flesh mottled. Mod-abt fractures & veinlets & stringers: py + qtz, drusy qtz + Mc, py + dk green c̄ chlor? (5 to 12 1/16" to 1/8" stringers / veinlets / foot)

978.8 - 989 SRF Grey-white silicified fault zone: Sub angular mixed clasts (mostly tuff) floating in white to grey silica matrix (Can't scratch matrix when grey, but can when white - qtz + kaol?) Few drusy qtz vvgo w/ needles of ▯ stibnite & ▯ barite.

989-1032 Generally lt grey strongly crackle bx'd tuff w/ vein bx'as w/ white c̄ silica + kaol? and flesh stain on veins & in matrix. 1025-1026 is more strongly bx'd & contains black clasts - Tr/Jr slates?. Also mod. qtz + py, drusy qtz ±Mc & white kaol veinlets (1/8"-1/4", 4 to 8/ft) Dozer?

989-1118.5'

CBW 12-7-94

1032-1118.5 c̄ Tuffaceous Sandstone? YES!

Bedded med-dk grey-brown 'sandstone' & 'siltstone' (prob w/a tuffaceous component?) Grain size varies from so fine that you can't see grains (< 1/8 mm) to ~ 3 mm. Well-sorted. Bedding at 50-55° to c.a. Some 'sand' grains are black - may be frag of Tr/Jr slates below?

1032-1063: w/ mod amnt white kaol ± py or Mc veinlets (1/8" to 1/3", 2 to 6 per foot)

ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
978.8-983			rel ✓	.008	.99
983-987			.221	.293	2.3
987-992				.049	1.94
992-997				.005	.12
997-1002				.008	.34
1002-1007				.007	<
1007-1012				.024	.51
1012-1017				.008	.56
1017-1022				.006	.10
1022-1027				.035	.25
1027-1032				.008	.34
1032-1037				.013	.29
1037-1042				.011	.28
1042-1047				<	<
1047-1053			.066	.077	.37

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG
		Bedded at 50-55° to c.a.	Mod vnlts	Kaol ± Mc or py	
1060		52°			
		Bx'd	Bx'd (fault?)		
		Bedded at 50-55° to c.a.	Crackle bx'd, mod vnlts		
1070		52°	minor vnlts		
1080					
	100		Wk. Bx'n		
1090			weak veining	Qtz py & white Kaol	
	100				
1100					
	94				
1110					
	110	Can't tell	Mod vnlts	qtz ± Kaol	
1120					

DESCRIPTION

1032 - 1118.5 cont: ¿ Tuffaceous Sandstone?

1063-1066 : Brecciated zone; ½" to 1" subang SS clasts (80%) in med-grey silica matrix (20%) Some vugs w/ Mc & thin veinlets white Kaol.

1067-1071: Crackle bx'd w/ mod-abt Kaol ± Mcorpy veinlets

1071 - 1087: Only minor Kaol ± py veinlets (1 or 2 / ft)

1087 - 1091: Weakly bx'd, clast supported, white ¿ Kaol+qtz±Mc? matrix

1091 - 1118.5: SS grain size increases ↓ downhole & at contact contains ~20% 2-3 mm black frags TrlJr slates. Weakly veined (1 or 2 ⅛" wide vnlts / ft) qtz+py and white Kaol.

1118.5 Contact between SS above & black 'slates' below (no fault)

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
1053-1057				.075	<
1057-1062				.016	<
1062-1067				.116	.51
1067-1072				.003	<
1072-1077				.001	<
1077-1082				.001	<
1082-1087				.004	<
1087-1092				.010	.11
1092-1097				.028	.24
1097-1102				.032	<
1102-1107				<	<
1107-1112				.001	<
1112-1117				<	<
1117-1122				.001	.11

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERAL-IZATION	GRAPHIC LOG
		Can't tell	Mod veinlts	qtz ± kaol	
1130	94				
1140	100		Rare to nil vnlts	Rare qtz ± kaol	
1150	90				
1160	105				
1170	100		M-str veining; Bx'd; Mod-str veinlts	Qtz, qtz + kaol?; kaol, Dr Q, all ± Mc	
1180	100		Bx'd		
1190	100		M-str vnlts		

DESCRIPTION

1118.5 - 1237 T.D.

Black Tr/Jr slates/shales.

1118.5 - 1144 : Black Tr/Jr slates/shales w/ bands & irregular veinlets white silica. Overall prob wk silic'd. (± kaol?) Local 3-4" bx'd zones. Overall banded & striped black & lt-grey to white appearance. Very f.gr. dissem py.

1144 - 1163 : Black Jr/Tr slates/shales, rare to nil veining. Softer than above. Very f.gr. dissem. py.

1163 - 1200 : Black Tr/Jr slates/shales, overall w-m silicified, w/ m-str lt grey qtz, white qtz + kaol? & white kaol, & Drusy Qtz all ± Mc; veinlts & 'on abt fracts. Local bx'd zones w/ grey qtz or qtz + kaol matrix at : 1168 - 1170, 1183, 1185 - 1187, 1195 - 1200. Very f.gr. diss. py.

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
1122 - 1127			Au ✓	<	<
1127 - 1132				.001	.24
1132 - 1137				.008	2.92
1137 - 1142				.009	.14
1142 - 1147				.006	<
1147 - 1152				.010	<
1152 - 1157				.002	<
1157 - 1162				.001	<
1162 - 1167				.036	2.16
1167 - 1172			.139	.125	6.84
1172 - 1177				.006	7.76
1177 - 1182				.039	9.59
1182 - 1187				.042	8.08
1187 - 1192				.068	.46

HOLE # RL-106

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG
	100	Can't tell	M-str vnlts	Q ± Kaol ± Mc	
1200			Bx'd		
	98		Mod blobs & vnlts	Qtz ± Kaol ± Mc/Py	
1210					
	98				
1220					
	100				
1230					
1237 T.D.					

DESCRIPTION

1118.5 - 1237 T.D.

1200 - 1237: Black Tr/Jr slates/shales w/ mod-amnt irregular blebs & ⊗ & wk-mod veinlets qtz ± kaol ± Mc/Py. Softer than above. Very fine diss. Py.

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
1192-1197			.082	.10	.64
1197-1202			.155	.19	19.9
1202-1207				.035	.48
1207-1212				.022	.22
1212-1217				.002	<
1217-1222				.001	<
1222-1227				.002	<
1227-1232				.003	<
1232-1237				.002	.33

NEVADA GSI, INC.

GEOCHEMICAL ANALYSIS REPORT

September 18, 1990

CUST. CODE: LOA
PROJECT: URBD
P.O. #: XXXX
LOT ID: 8356

GEOLOGIST: NATE BREWER
COPIES TO: KEN TULLAR
COMPANY: LAC MINERALS
ANALYSIS: FIRE ASSAY FOR GOLD AND SILVER, 1 ASSAY TON GRAVIMETRIC.

	SAMPLE I.D.			Au o/t	Ag o/t
1	RL-106C	930	-~~8~~35 9 ?	0.003	-0.10
2	RL-106C	M	-59	0.249	-0.10
3	RL-106C	935	-939,7	0.002	-0.10
4	RL-106C	411	-416 ?	0.003	-0.10
5	RL-106C	41~~6~~	-420.4	0.009	-0.10
6	RL-106C	420.4	-426	-0.001	-0.10
7	RL-106C	411.5	-417 ?	0.035	-0.10

==========

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

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERAL-IZATION	GRAPHIC LOG	DESCRIPTION	ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/ Ag
		None	Fault Zone - bx'd	Dr Q + stib. + bar.		939.7 ~ 978.8 cont: 968-978.8: pale-med grey green w/ dk flesh mottled. Mod-abt fractures & veinlets & stringers: py + qtz, drusy qtz + Mc, py + dk green c̄ chlor.? (5 to 12 1/16" to 1/8" stringers / veinlets / foot)						
990			str. crackle bx'n	Q+py, Dr Q ± Mc, Kaol		978.8 - 989 Grey-white silicified fault zone: Sub angular mixed clasts (mostly tuff) floating in white to grey silica matrix (Can't scratch matrix when grey, but can when white - qtz + kaol?) Few drusy qtz vugs w/ needles of ▯ stibnite & ▯ barite.						
1000						989-1032 Generally lt grey strongly crackle bx'd tuff w/ vein bx'as w/ white c̄ silica + kaol? and flesh stain on veins & in matrix. 1025-1026 is more strongly bx'd & contains black clasts - Tr/Jr slates?. Also mod: qtz + py, drusy qtz ±Mc & white kaol veinlets (1/8"-1/4", 4 to 8/ft)						
1010												
1020			Bx'd str crackle bx'n									
1030		Bedded at 50-55° to c.a.	Mod. veins	Kaol ±Mc OR py		1032 - 1118.5 c̄ Tuffaceous Sandstone? Bedded med-dk grey-brown 'sandstone' & 'siltstone' (prob w/a tuffaceous component?) Grain size varies from so fine that you can't see grains (< 1/8 mm) to ~ 3 mm. Well-sorted. Bedding at 50-55° to c.a. Some 'sand' grains are black - may be frag of Tr/Jr slates below? 1032-1063: w/ mod amt white kaol + [illegible] the veinlets (1/2" to 1/3", 2 to 6/ft)						
1040		52°										
1050												

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
1060		Bedd'd at 50-55° to c.a. 52°	Mod vnlts	Kaol ± Mc or py		1032-1118.5 cont: ¿ Tuffaceous Sandstone?						
		Bx'd	Bx'd (fault?)			1063-1066: Brecciated zone; ½" to 1" subang SS clasts (80%) in med-grey silica matrix (20%) Some vugs w/ Mc & thin veinlets white Kaol.						
						1067-1071: Crackle bx'd w/ mod-abt Kaol ± Mcorpy veinlets						
						1071-1087: Only minor Kaol ± py veinlets (1or2/ft)						
1070		Bedd'd at 50-55° to c.a. 52°	Crackle bx'd, mod vnlts			1087-1091: Weakly bx'd, clast supported, white ¿ Kaol+qtz±Mc? matrix						
			minor vnlts			1091-1118.5: SS grain size increases ↓ downhole & at contact contains ~20% 2-3 mm black frags TrlJr slates. Weakly veined (1or2 ⅛" wide vnlts / ft) qtz+py and white Kaol.						
1080												
90			Wk. Bx'n									
			Weak veining	Qtz+py & white Kaol								
100												
110						1118.5 Contact between SS above & black 'slates' below (no fault)						
120		Can't tell	mod vnlts	qtz+ Kaol								

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
		Can't tell	Mod veinlts	qtz ± Kaol		1118.5 - 1237 T.D. Black Tr/Jr slates/shales.						
1130						1118.5 - 1144: Black Tr/Jr slates/shales w/ bands & irregular veinlets white silica. Overall prob wk silic'd. Local 3-4" bx'd zones. ← (± Kaol?) Overall banded & striped black & lt-grey to white appearance. Very f.g. dissem py.						
1140			Rare to nil vnlts	Rare qtz ± Kaol		1144 - 1163: Black Jr/Tr slates/shales, rare to nil veining. Softer than above. Very f.g. dissem. py.						
1150												
1160			M-str veining	Qtz, qtz + Kaol?, Kaol, Dr Q, all ± Mc		1163 - 1200: Black Tr/Jr slates/shales, overall w-m silicified, w/ m-str lt grey qtz, white qtz + kaol? & white kaol, & Drusy Qtz all ± Mc; veinlts & on abt fracts. Local bx'd zones w/ grey qtz or qtz + kaol matrix at: 1168 - 1170, 1183, 1185 - 1187, 1195 - 1200. Very f.g. diss. py.						
1170			Bx'd									
			Mod-str veining									
1180			Bx'd									
190			M-str vnlts									

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
		Can't tell	M-str vnlts	Q ± Kaol ± Mc		1118.5 – 1237 T.D.						
			Bx'd			1200 – 1237: Black Tr/Jr slates/shales w/ mod-amnt irregular blebs & wk-mod veinlets qtz ± kaol ± Mc/Py. Softer than above. Very fine diss. Py.					.141	
1200			Mod blobs & vnlts	Qtz ± Kaol ± Mc/Py			1200				.132	
1210												
1220												
1230												
1237 T.D.												

Drilled S 55E @ -59°

N 2,204,662
E 482,092

5300.9 El

NR

CHOC 10-306 - 1/4 to 0.1 mm drk specks., Lt gray matic phenos "Lapilli text" is very subdued

choc.

F 1

Qt-Py Bx

2 choc.

3 Choc.

306

Two clast choc Tuff #1 clast = Pale pink to gray Choc tuff clasts, - Fgr porphyritic tuff clasts w/ 1/4 mm drk phenos & #2 clast = Med grn to WS (pumice?) # 2 is softer than #1 clast, Has bonded clasts

Brown Choc

4

411

Upper Bud. - Green, bedded Lapilli Tuff, mod sorted BP @ 30 to 45° Fine matrix, well bedded, some larger Lapilli size clasts

468

UB - Coarse lithic tuff Lapilli from 3mm to 30mm Poorly sorted.

yel-grn Bud

5

535

Fine interm Lapilli Tuff very fine to find(?) & interm Lithic Lapilli Tuff, wispy

592

6

Tuff marker bed Fgr porphyritic Tuff 0.1mm black specks, matic phenos

~~Lowe~~ ~~LBT~~ "

Bud Marker

7

"

796

8

Lower Bud Lapilli Tuff (wispy)

green ~~mine~~ tos L. BUD

("Wispy Bud")

wispy

9

(LBT missing!)

NO FAULT? SRF

Dozer

?LBT? Fgr Tuff w/ "crackle Bxed" text ?(Lower Bud tuff?)

~~Dozer~~

983-987-0.29/2.3

Silicified Fault zone? SRF

(North One Body)

10

Cracked Bxed.

1025-1026 has black clasts (ALS)

SRF

Tuffaceous SS some drk grains from TR (ALS)

(↓ grain size increases)

TOS

(mine - Tos)

11

1118

Log says "NO FAULT"

Black TR (ALS)

Blue TR (ALS)

1163-1200 (silicified w-m) Lt gry Qt. + hac Drusy Qt

5'-0.125/6.84

5' 0.19/19.99

12

40'-0.101/6.94

1237 TD

ROSEBUD

DRILL HOLE RL-106-C

1" = 100'

Rogowski
5/10/98

RL-106 KWT 8-18-90

Sample Recovered	% Recovery		Sample Interval		Lithology
10-17	4/7 = 57		10-17	52-57	10 – 595'
17-27	99%	C	17-22	57-62	wht, blc to stgly silicif.
27-34	7.6/7 = 109	U	22-27	62-67	to flooded to drusy
34-37	2.8/3 = 93	T	27-34	67-72	vugs – local brecc
37-47	98%		34-37	72-77	unit
47-57	99%		37-42, 42-47, 47-52	77-82	appears to be lithic
57-67	100%			82-87	tuff – probably
67-77	99%		92-97	87-92	stgly alt. BBx unit
77-87	100%		97-101.8		± 34 – 40.8 Fault
87-97	96%		101.8-104.5		zone – reduced silicif.
97-107	100%		104.5-110		101.8 – 104.4
107-117	97%		110-117		Fault zone
117-127	99%		117-122		silicified, reduced
127-137	98%		122-127		
137-147	99%		127-132		
147-157	100%		132-137		298-294 FAULT ZONE
157-167	100%		137-142		SILICIFIED, REDUCED
167-177	99%		142-147	252-257	
177-187	95%		147-152	257-262	
187-197	100%		152-157 C.	262-267	305 – 411.4
197-207	99%		157-162 U	267-272	wk BL, wk Qs
207-217	100%		162-167 T	272-277, 277-282	VN, BBx
217-227	100%		167-172	282-287	
227-237	100%		172-177	287-292	
237-247	97%		177-182	292-297	411.4 – 594 GREEN
247-257	100%		182-187	302-307	LITHIC LAPILLI TUFF
257-267	99%		187-192	307-317	BBx
267-277	99%		192-197	317-322	
277-287	100%		197-202	322-327	
287-297 (1.4)	97%		202-207	327-332	
297-307	100%		207-212	332-337	
307-317	100%		212-217	337-342	
317-327	97%		217-222	342-347	
327-337	100%		222-227	347-352	
337-347	98%		227-232	352-357	
347-357	102%		232-237	357-362	
357-367	102%		237-242, 242-247, 247-252	362-367	
				367-372	

SAMPLE (INTERVAL)	% RECOVERY
1 – 377	100%
7 – 4.1 387	102%
7 – 397	97%
7 – 407	102%
7 – 417	95%
7 – 427	94%
27 – 437	97%
37 – 447	100%
47 – 457	102%
57 – 467	102%
7 – 5.6 477	102%
477 – 487	98%
487 – 497	99%
497 – 507	97%
507 – 517	98%
7 – 527	99%
5 537	99%
537 – 547	99%
547 – 557	100%
557 – 8.5 567	100%
567 – 577	99%
577 – 587	99%
587 – 597	100%
597 – 607	98%
607 – 617	100%
617 – 627	99%
627 – 637	101%
637 – 647	98%
647 – 8.5 657	98%
657 – 667	102%
667 – 677	99%
677 – 687	100%
687 – 697	98%
69 707	98%
707 – 717	98%
717 – 727	100%
727 – 737	96%

SAMPLE INTERVAL

S 372 – 377
377 – 382
382 – 387
387 – 392
SPLIT 392 – 397
397 – 402
402 – 407
407 – 411.4

411.4 – 587 – No Samples

587 – 592
592 – 597
SPLIT 597 – 602
602 – 607
607 – 612
612 – 617
617 – 622
622 – 627
627 – 632
632 – 637
637 – 642
642 – 647
SPLIT 647 – 652
652 – 657
657 – 662
662 – 667
667 – 672
672 – 677
677 – 682
682 – 687
687 – 692
692 – 697
SPLIT 697 – 702
702 – 707
707 – 712
712 – 717
717 – 722
722 – 727
727 – 732
732 – 737
737 – 742
742 – 747
747 – 752
752 – 757
757 – 762
762 – 767
767 – 772
772 – 777
777 – 782
782 – 786.5
786.5 – 791.5
791.5 – 796.5
796.5 – 801.5
801.5 – 806.8
806.8 – 812
812 – 817
817 – 822
822 – 827
827 – NO SAMPLE

LITHOLOGY:

(411.4–595) GREEN BBx

595 – 800? FGT LT PINK BBx WMOD BL, WK MOD Q SULFIDE VEINING, OCCASIONAL DRUSY Q VUGS. CONTACT W/ UNDERLYING BBx BL, Qs STRINGS, PINK BEIGE COLOR

800 – 939? BBx – GREENISH LITHIC LAPPILLI TUFF

RL-106

SAMPLE INTERVAL	% RECOVERED
187-738.5	80%
738.5-747	99%
747-757	98%
757-767	97%
767-777	104%
777-786.5	105%
786.5-796.5	96%
796.5-806.8	100%
806.8-817	100%
817-827	100%
827-837	98%
837-847	98%
847-857	99%
857-867	96%
867-877	95%
877-887 (5.7)	102%
887-897	103%
897-907	101%
907-917	101%
917-927	98%
927-937	103%
937-947	100%
947-957	93%
957-967	100%
967-977	100%
977-987	94%
987-997 (5.4)	103%
997-1007	96%
1007-1017	100%
1017-1027	102%
1027-1037	
1037-1047	
1047-1057	
1057-1067	
1067-1077	
1077-	

SAMPLE INTERVAL
-930 NO SAMPLE
S 930-935
935-939.7
939.7-943.5
943.5-947
947-952
952-957
957-962
962-967
967-971
971-975.3
975.3-978.8
978.8-983
983-987
987-992
992-997
997-1002
1002-1007
1007-1012
1012-1017
1017-1022
1022-1027
1027-1032
1032-1037
1037-1042
1042-1047
1047-1053
1053-1057
1057-1062
1062-1067
1067-1072
1072-1077
1077-1082
1082-1087

CUT

CUT

LITHOLOGY

939.7-1032 FINE TO MED GRAIN TUFF, GENERALLY LIGHT GREEN, LOCAL INTENSE SILICIFICATION AND Q SULF STRK. LOCAL RECRYSTALLIZ, BXD ZONES.

* 975.3-978.8 STRG Q SULF STRK IN BL F-MGT

* 978.8-1032 INTENSELY SILICIFIED, BX, "RETEXTURED" FM ZONE & FINE DIS. SULFIDES

1032- FINE-MED GR. SS ARKOSIC SANDSTONES, LOCAL CHAN BEDDING, GRADED BEDDING, LOCAL BX, WK-MOD Q-SULFIDE VEINS & "DULL BUTTER" CLAYS.

Sample Recovered	% Recovered	Sample Interval	Lithology
(3.8) -1087			
1087-1097	100%	1087-1092	-1237
1097-1107	100%	1092-1097	blk to gry, interbedded
1107-1117	94%	1097-1102	sandstones, siltstones
1117-1127	110%	1102-1107	and blk carbonaceous
1127-1137	94%	1107-1112	shales (minor)
1137-1147	100%	1112-1117	stg local bx/fault
1147-1157	90%	1117-1122	zones
1157-1167	105%	1122-1127	
1167-1177	100%	1127-1132	(1087)-1098 fault zone
1177-1187	100%	1132-1137	lt gry, sandstone ??
1187-1197	100%	1137-1142	stg local silic bx
1197-1207	100%	1142-1147	w/ qtz sul fib vns
1207-1217	98%	1147-1152	+ wht, clay
1217-1227	98%	1152-1157	
1227-1237 TD	100%	1157-1162	
		1162-1167	1132-1162± minor fault(s)
		1167-1172	blk shales, silicified
		1172-1177	to local stg silicified
		1177-1182	bx
		1182-1187	
		1187-1192	1162-1213 Major Fault Zone
		1192-1197	stg silicified, bx
		1197-1202	w/ stg qtz sul fib
		1202-1207	vns (local) + local
		1207-1213	barite xtals
		1213-1217	
		1217-1222	
		1222-1227	
		1227-1232	
		1232-1237 TD	

CUT

NEVADA GSI, INC.

PREP QUALITY ASSURANCE CERTIFICATION

Date 8/27/90

Company LAC MINERALS

Job # 8284

Geologist N. BREWER

No. Samples 26 CORE

Sample ID	Time	Bowl #	Weight	-150 Wt	% -150
RL-106C 1007-1012	9:30 AM		124.57	119.00	95.53

☑ PASSED ☐ FAILED

Explanation/Actions

Approved By Richard A. Grondin

Richard Grondin, Lab Manager

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

NEVADA GSI, INC.

PREP QUALITY ASSURANCE CERTIFICATION

Date 9/18

Company LAC MINERALS

Job # 8445

Geologist NATE BREWER

No. Samples 71

	Sample ID	Time	Bowl #	Weight	-150 Wt	% -150
1	RL-106C, 10-17			50.49	50.03	99 %
2	RL-106C, 202-207			50.07	48.77	97.4%
3	RL-106C, 247-252			50.04	47.88	95.6%
4	RL-106C, 642-647			50.88	47.92	94.2%
5						
6						

☐ PASSED ☐ FAILED

Explanation/Actions

Approved By Richard A. Grondin

Richard Grondin, Lab Manager

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

SEP 5 1990

NEVADA GSI, INC.

GEOCHEMICAL ANALYSIS REPORT

August 31, 1990

CUST. CODE: LOA
PROJECT: URBD
P.O. #: XXXX
LOT ID: 8284

GEOLOGIST: NATE BREWER
COPIES TO: KEN TULLAR
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	
1.	RL-106C 939.7 943.5	-0.001	-0.10	-	
2.	RL-106C 943.5 947	-0.001	0.12	-	
3.	RL-106C 947 952	-0.001	-0.10	-	
4.	RL-106C 952 957	-0.001	0.13	-	
5.	RL-106C 957 962	0.006	0.14	-	
6.	RL-106C 962 967	0.005	-0.10	-	
7.	RL-106C 967 971	-0.001	-0.10	-	
8.	RL-106C 971 975.3	0.002	0.12	-	
9.	RL-106C 975.3 978.8	0.007	0.16	-	
10.	RL-106C 978.8 983	0.008	0.99	-	x
11.	RL-106C 983 987	0.293	2.30	0.221	.257
12.	RL-106C 987 992	0.049	1.94	-	
13.	RL-106C 992 997	0.005	0.12	-	
14.	RL-106C 997 1002	0.008	0.34	-	
15.	RL-106C 1002 1007	0.007	-0.10	-	
16.	RL-106C 1007 1012	0.024	0.51	-	
17.	RL-106C 1012 1017	0.008	0.56	-	
18.	RL-106C 1017 1022	0.006	0.10	-	
19.	RL-106C 1022 1027	0.035	0.25	-	
20.	RL-106C 1027 1032	0.008	0.34	-	
21.	RL-106C 1032 1037	0.013	0.29	-	
22.	RL-106C 1037 1042	0.011	0.28	-	
23.	RL-106C 1042 1047	-0.001	-0.10	-	
24.	RL-106C 1047 1053	0.077	0.37	0.066	.072
25.	RL-106C 1053 1057	0.075	-0.10	-	
26.	RL-106C 1057 1062	0.016	-0.10	-	

THIS REPORT REVIEWED AND APPROVED BY:

Richard A. Grondin

RICHARD GRONDIN, LABORATORY DIRECTOR

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SEP 21 1990

NEVADA GSI, INC.

GEOCHEMICAL ANALYSIS REPORT

September 18, 1990

CUST. CODE: LOA
PROJECT: URBD
P.O. #: XXXX
LOT ID: 8357

GEOLOGIST: NATE BREWER
COPIES TO: KEN TULLAR
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	$\bar{x}$	
1	RL-106C	1062	1067	0.116	0.51	0.109	.113	
2	RL-106C	M-57		~~0.209~~	0.15	-		
3	RL-106C	1067	1072	0.003	-.10	-		
4	RL-106C	1072	1077	0.001	-.10	-		
5	RL-106C	1077	1082	0.001	-.10	-		
6	RL-106C	1082	1087	0.004	-.10	-		
7	RL-106C	1087	1092	0.010	0.11	-		
8	RL-106C	1092	1097	0.028	0.24	-		15' @.023 Au .12 Ag
9	RL-106C	1097	1102	0.032	-.10	-		
10	RL-106C	1102	1107	-0.001	-.10	-		
11	RL-106C	1107	1112	0.001	-.10	-		
12	RL-106C	1112	1117	-0.001	-.10	-		
13	RL-106C	1117	1122	0.001	0.11	-		
14	RL-106C	1122	1127	-0.001	-.10	-		
15	RL-106C	1127	1132	0.001	0.24	-		
16	RL-106C	1132	1137	0.008	2.92	-		
17	RL-106C	1137	1142	0.009	0.14	-		
18	RL-106C	1142	1147	0.006	-.10	-		
19	RL-106C	1147	1152	0.010	-.10	-		
20	RL-106C	1152	1157	0.002	-.10	-		
21	RL-106C	1157	1162	0.001	-.10	-		
22	RL-106C	M-58		~~0.017~~	-.10	-		
23	RL-106C	1162	1167	0.036	2.16	-	$\bar{x}$	
24	RL-106C	1167	1172	0.125	6.84	0.139	.132	1162-1212' 50' @.064 Au 5.62 Ag
25	RL-106C	1172	1177	0.006	7.76	-		
26	RL-106C	1177	1182	0.039	9.59	-		
27	RL-106C	1182	1187	0.042	8.08	-		
28	RL-106C	1187	1192	0.068	0.46	-		
29	RL-106C	1192	1197	0.100	0.64	0.082	.09,	

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LAC MINERALS
LOT I.D. #: 8357

	SAMPLE I.D.			Au o/t	Ag o/t	Checks Au o/t	$\bar{x}$
30	RL-106C	1197	1202	0.190	19.99	0.155	.173
31	RL-106C	1202	1207	0.035	0.48	-	
32	RL-106C	1207	1212	0.022	0.22	-	
33	RL-106C	1212	1217	0.002	-.10	-	
34	RL-106C	1217	1222	0.001	-.10	-	
35	RL-106C	1222	1227	0.002	-.10	-	
36	RL-106C	1227	1232	0.003	-.10	-	
37	RL-106C	1232	1237	0.002	0.33	-	

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This report reviewed and approved by:

Richard A. Grondin

Richard Grondin, Laboratory Director

NEVADA GSI, INC.

GEOCHEMICAL ANALYSIS REPORT

September 28, 1990

CUST. CODE: LOA
PROJECT: URBD
P.O. #: XXXX
LOT ID: 8445

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-106-C	10	17	0.001	0.20
2		M-14		0.021	-0.10
3	RL-106-C	17	22	-0.001	-0.10
4	RL-106-C	22	27	-0.001	-0.10
5	RL-106-C	27	32	-0.001	-0.10
6	RL-106-C	32	37	-0.001	-0.10
7	RL-106-C	37	42	-0.001	-0.10
8	RL-106-C	42	47	-0.001	-0.10
9	RL-106-C	47	52	-0.001	-0.10
10	RL-106-C	52	57	-0.001	-0.10
11	RL-106-C	57	62	-0.001	-0.10
12	RL-106-C	62	67	-0.001	-0.10
13	RL-106-C	67	72	-0.001	-0.10
14	RL-106-C	72	77	-0.001	-0.10
15	RL-106-C	77	82	-0.001	-0.10
16	RL-106-C	82	87	-0.001	-0.10
17	RL-106-C	87	92	-0.001	-0.10
18	RL-106-C	92	97	-0.001	-0.10
19	RL-106-C	97	101.8	0.001	-0.10
20	RL-106-C	101.8	104.5	-0.001	-0.10
21	RL-106-C	104.5	110	0.001	0.20
22		M-15		0.029	0.16
23	RL-106-C	110	117	-0.001	-0.10
24	RL-106-C	117	122	-0.001	-0.10
25	RL-106-C	122	127	-0.001	-0.10
26	RL-106-C	127	132	0.003	-0.10
27	RL-106-C	132	137	-0.001	-0.10
28	RL-106-C	137	142	-0.001	0.17
29	RL-106-C	142	147	-0.001	-0.10

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LAC MINERAL
LOT ID # 8445

	SAMPLE I.D.			Au o/t	Ag o/t
30	RL-106-C	147	152	-0.001	-0.10
31	RL-106-C	152	157	-0.001	-0.10
32	RL-106-C	157	162	-0.001	-0.10
33	RL-106-C	162	167	-0.001	-0.10
34	RL-106-C	167	172	-0.001	0.15
35	RL-106-C	172	177	-0.001	0.12
36	RL-106-C	177	182	-0.001	-0.10
37	RL-106-C	182	187	-0.001	-0.10
38	RL-106-C	187	192	0.003	-0.10
39	RL-106-C	192	197	-0.001	-0.10
40	RL-106-C	197	202	-0.001	-0.10
41	RL-106-C	202	207	-0.001	0.10
42		M-16		0.015	-0.10
43	RL-106-C	207	212	-0.001	0.15
44	RL-106-C	212	217	-0.001	0.16
45	RL-106-C	217	222	-0.001	0.15
46	RL-106-C	222	227	0.006	-0.10
47	RL-106-C	227	232	-0.001	-0.10
48	RL-106-C	232	237	-0.001	0.10
49	RL-106-C	237	242	-0.001	0.13
50	RL-106-C	242	247	-0.001	0.12
51	RL-106-C	247	252	-0.001	0.14
52	RL-106-C	252	257	-0.001	0.15
53	RL-106-C	257	262	-0.001	-0.10
54	RL-106-C	262	267	-0.001	-0.10
55	RL-106-C	267	272	-0.001	-0.10
56	RL-106-C	272	277	0.001	-0.10
57	RL-106-C	277	282	0.001	-0.10
58	RL-106-C	282	287	0.001	0.11
59	RL-106-C	287	292	0.032	-0.10
60	RL-106-C	292	297	0.005	-0.10
61	RL-106-C	297	302	0.002	0.19
62		M-17		0.046	-0.10
63	RL-106-C	302	307	0.013	-0.10
64	RL-106-C	587	592	0.001	-0.10
65	RL-106-C	592	597	0.002	0.15
66	RL-106-C	597	602	0.001	0.20
67	RL-106-C	602	607	0.001	-0.10
68	RL-106-C	607	612	0.001	0.11
69	RL-106-C	612	617	0.003	-0.10
70	RL-106-C	617	622	0.002	0.14
71	RL-106-C	622	627	0.002	0.18

LAC MINERAL
LOT ID # 8445

	SAMPLE I.D.			Au o/t	Ag o/t
72	RL-106-C	627	632	0.002	-0.10
73	RL-106-C	632	637	0.005	-0.10
74	RL-106-C	637	642	0.004	0.13
75	RL-106-C	642	647	0.002	-0.10
76		M-18		0.016	0.16

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THIS REPORT REVIEWED AND APPROVED BY:

Richard A. Grondin

RICHARD GRONDIN, LABORATORY DIRECTOR

NEVADA GSI, INC.

GEOCHEMICAL ANALYSIS REPORT

September 21, 1990

CUST. CODE: LOA
PROJECT: URBD
P.O. #: XXXX
LOT ID: 8355

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-104	457	462	0.005	-0.10
2.	M-52			0.255	-0.10
3.	RL-104	462	467	0.001	-0.10
4.	RL-104	467	472	0.002	1.13
5.	RL-104	472	477	0.001	-0.10
6.	RL-104	477	482	0.003	-0.10
7.	RL-104	482	487	0.008	-0.10
8.	RL-106	307	312	0.001	-0.10
9.	RL-106	312	317	-0.001	-0.10
10.	RL-106	317	322	0.001	-0.10
11.	RL-106	322	327	0.001	-0.10
12.	RL-106	327	332	0.014	-0.10
13.	RL-106	332	337	-0.001	-0.10
14.	RL-106	337	342	-0.001	-0.10
15.	RL-106	342	347	-0.001	-0.10
16.	RL-106	347	352	0.031	-0.10
17.	RL-106	352	357	-0.001	-0.10
18.	RL-106	357	362	-0.001	-0.10
19.	RL-106	362	367	-0.001	-0.10
20.	RL-106	367	372	-0.001	-0.10
21.	RL-106	372	377	0.001	-0.10
22.	M-53			0.032	0.16
23.	RL-106	377	382	-0.001	-0.10
24.	RL-106	382	387	-0.001	-0.10
25.	RL-106	387	392	-0.001	-0.10
26.	RL-106	392	397	-0.001	-0.10
27.	RL-106	397	402	-0.001	-0.10
28.	RL-106	402	407	-0.001	-0.10
29.	RL-106	407	411.4	0.001	-0.10
30.	RL-106	411.4	417	0.001	-0.10
31.	RL-106	647	652	0.002	-0.10
32.	RL-106	652	657	0.005	-0.10
33.	RL-106	657	662	0.002	-0.10

? not sampled?

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LAC MINERALS
LOT ID # 8355

	SAMPLE I.D.			Au o/t	Ag o/t
34.	RL-106	662	667	0.004	-0.10
35.	RL-106	667	672	0.002	-0.10
36.	RL-106	672	677	0.003	-0.10
37.	RL-106	677	682	-0.001	-0.10
38.	RL-106	682	687	0.003	-0.10
39.	RL-106	687	692	0.003	-0.10
40.	RL-106	692	697	0.002	-0.10
41.	RL-106	697	702	0.002	-0.10
42.	M-54			0.031	-0.10
43.	RL-106	702	707	0.011	-0.10
44.	RL-106	707	712	0.002	-0.10
45.	RL-106	712	717	0.002	-0.10
46.	RL-106	717	722	0.002	-0.10
47.	RL-106	722	727	0.001	-0.10
48.	RL-106	727	732	0.002	-0.10
49.	RL-106	732	737	0.003	-0.10
50.	RL-106	737	742	0.003	-0.10
51.	RL-106	742	747	0.003	-0.10
52.	RL-106	747	752	0.004	-0.10
53.	RL-106	752	757	0.001	-0.10
54.	RL-106	757	762	0.001	-0.10
55.	RL-106	762	767	0.001	-0.10
56.	RL-106	767	772	0.001	-0.10
57.	RL-106	772	777	0.007	0.13
58.	RL-106	777	782	0.003	0.13
59.	RL-106	782	786.5	0.002	-0.10
60.	RL-106	786.5	791.5	0.006	-0.10
61.	RL-106	791.5	796.5	0.001	-0.10
62.	M-55			0.077	-0.10
63.	RL-106	796.5	801.5	0.002	-0.10
64.	RL-106	801.5	806.8	0.002	0.58
65.	RL-106	806.8	812	-0.001	0.36
66.	RL-106	812	817	0.001	-0.10
67.	RL-106	817	822	0.001	-0.10
68.	RL-106	822	827	-0.001	-0.10

THIS REPORT REVIEWED AND APPROVED BY:

Richard A. Grondin

RICHARD GRONDIN, LABORATORY DIRECTOR