60001232

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-99
AUTHOR	N. Brewer; K. Tullar; R. Grandin
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; Coastal Drilling Lac Minerals (USA) Inc
COMMODITY If not obvious	gold silver
NOTES	Drill log; geology; assay; total depth 1242'; handwritten notes; also referred to as RL-99C NOTE p17 (11 of 11) has notes on back 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 RL-99

Rosebud

60001332 4010

6000 1332

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

DRILL LOG SUMMARY SHEET

PROJECT ROSEBUD

HOLE NUMBER RL-99 TOTAL DEPTH 1242' LOGGED BY DAM/KLK

Date started 7-24-90

Date completed 7-28-90

Initial bearing S55E

Initial inclination -58.5°

Elevation 5302.3'

Collar coordinates:

N 2204,431

E 481,909.9

Contractor: COATES

Drill Type: LOR

Hole Size: 0-465 RC (4¼); 465-601 HQ; 601-1242' NQ

Drilling Conditions: 465' Re

Footage: Wet / Dry

Comments:

DOWN HOLE SURVEY INFORMATION

FROM	TO	SURVEY POINT	INCLINATION	BEARING	X (Northing)	Y (Easting)	Z (Elevation)
0	251		-58.5	S 55 E			
251	601	502	-60.5°	S57E			
601	806	700	-62°	S61 E			
806	1012	911.5	-62°	S61E			
1012	1176	1112	-63°	S62E			
1176	1242	1240	-63°	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-99

Page 1 of 5

LOGGED BY DAM

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK
		XX							CREAM GREEN				<1%	0-15 INTENSLY SILICIFIED FINE GRN CRYSTAL TUFF	<	<	
05																	
10																	
15		~							LT GREEN					15-35 MOD-STR. ARGILLIC ALTERED CRYSTAL TUFF			
20																	
25																	
30																	
35									GREEN + RUST					35-70 MOD. OXIDIZED ROSE CRYSTAL TUFF, w LOCAL BLEACHING			
40																	
45																	
50									RUSTY ROSE								
55		~															
60		~													.004		
65		~													<	.18	
70		~													.001	<	
75		~ XX							LT GREEN + RUST					70-105 LT GREEN XL TUFF w LOCAL BLEACHING AND INCREASED SILICIFICATION LOCAL FINE Q STKWK	.002	<	
80		~													.002	<	
85		~ SP XK													.007	<	
90		SP XK													.002	<	
95		SP XK													.002	<	
100		SP XK													.001	<	

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DRILL HOLE RL-99

Page 2 of 5

LOGGED BY DAM

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK
	DT	XX XK XX							LT GREEN				<1%		.002	<	
105		XX							WHITE GREY					105-135 MOD-STR. SILICIFIED XC TUFF	.008	.14	
10															.001	<	
15															.002	<	
20															.001		
25															.004		
30															.001	<	
35		~ XX							LT GREY				± 1%	135-180 BLEACHED WK MOD Silic. FINE GRAIN TUFF W FINE SULFIDES	.001	<	
40															.001	.10	
45															.001	<	
50															.002	<	
55															.001	<	
60															.002	<	
65															.002	<	
70															<	<	
75															.001	<	
80														180-360 BLEACHED FINE GRAIN TUFF - FRAGMENTED - W LOCAL Q-SULFIDE VEINING USUALLY BLEACHED	<	<	
85															.0010	<	
90															.002	<	
95															.001	<	
200																	

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Ca CALCITE V_{QS} = Q-SULFIDE VEIN

DRILL HOLE RL-99

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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	
		~ XX							LT BROWN				1-3%		<	<		
05															.001	<		
10															.002	<		
15															.001	<		
20															.005	<		
25		V_{QS}													.008	<		
30		V_{QS}													.004	<		
35		V_{QS} XC													.039	<		
40															.007	<		
45		V_{QS} XX													.001	<		
50															<	<		
55															.002	<		
60															.002	<		
65		Q_{VS}													.001	<		
70		Q_{VS} XC													.002	<		
75		Q_{VS} XK												VERY FINE Q STRINGER IN CHIPS	.002	<		
80		XX													.002	<		
85															.007	<		
90															.002	<		
95																		
00															.001	<		

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DRILL HOLE RL-99

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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
									LT BEIGE				1-3%		.002	.10	
05															.006	<	
10									BEIGE + GREEN						<	<	
15														CRYSTAL, LITHIC OR FRAGMENTAL TEXTURE TO 335'	.001	<	
20									LT GREEN						.010	<	
25		XK Qvs							BEIGE						.103	.16	
30		QXK Vs													.008	<	
35									BEIGE GREEN					335-465 PREDOMINANTLY GREEN LAPPILLI TUFF	<	<	
40		Qvs												ALSO KNOWN AS THE "BUD." LOCALLY BLEACHED	<	<	
45														MINOR CALCITE VEINS.	.001	<	
50															.001	<	
55															<	<	
60									LT GREEN				4%		<	<	
65									PINK						.010	<	
70									GREEN						<	<	
75															<	<	
80															<	<	
85															<	<	
90															.002	<	
95									ROSE GREEN						.016	.18	
100																	

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LOGGED BY DMM

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	
									GREEN - ROSE				<1%		.001	<		
405									GREEN						<	<		
410		Vca													<			
415									LT GREEN					WIL BL 415-435	<			
420															<			
425															.001			
430															<			
435		Vca							GREEN						<			
440															<			
445															.007			
450															.003			
455															<			
460														T.D. = 465	<			
465																		
470																		
475																		
480																		
485																		
490																		
495																		
500																		

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG
470	113			1-2% diss tVN py	
	100	bedding /26	SiO2 py VN /36		
480	94	26 bedding	39/ CaCO3 VN		±35°
		85 CaCO3 VN	/28 flt		
490	100	38 SiO2 py VN	±5° fracture		
		67° SiO2 py	5-10°	±2% diss tVN py tmarcasite in VNs	/35
500	99	/22			
510	96	50 /44	py VN /30		
520	99	54 py VN			
530	98	55° SiO2 py	±5°		(AC/A)
		55° SiO2 py			
540					

DESCRIPTION

CORE BEGAN @ 465'

465 - 496 Lithic Lapilli Tuff - GREEN BEDDED BUD

Heterolithic - clast supported w/ intense army green gray clay matrix. CLASTS: Average 2-10mm. w/ few clasts up to 25mm composed of bleached to strongly clay altered pumice & fine grained to flow banded tuff + <1% dark gray poss & shale frags very weakly fractured w/ calcite ± pyrite VNs weak local dissem py

494.4 - 496 Silicified brecciated zone - CONTACT - possible 35° to core axis - a breccia seam well silicified - hydrothermal Δ + sericite

496 - 674.3 FINE GRAINED TUFF: w/ ~1-2% clay alt xtals CRYSTAL - TMB?

BUFF - weakly bleached, (lt hint sage green → local) crystal poor - few xtals predom. clay alt. and locally pyrite replaced, weak to moderate pervasive fracturing w/ assoc. veining predom: ① druzy qtz pyrite vein w/ local assoc. sericite alt w/ local marcasite ± blue green mineral veining varies from fine hairline stockwork to ±3mm widths & locally open spaced and vuggy. Locally well silicified & brecciated veins and microbreccia seams some fractures purely blue green mineral ± white clay and or sericite, locally silicified.

* somewhat similar in appearance to marker tuff - LBT - however the pyrite replaced phenos are finer

529 - 531.7 intermittent breccia seams w/ druzy vuggy SiO2 matrix fill w/ assoc white sericite fill + pyrite ± marcasite + blue green mineral

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
465-467					
467-472					
472-477					
477-482					
482-487				<.001	<.1
487-492				<	<
492-494.4				<	<
494.4-496				.007	<
496-501				.004	<
501-504				.004	<
504-508				.002	<
508-512				.003	<
512-517				.024	<
517-522				.003	<
522-527				.001	<
527-532				.003	<
532-537				.002	<
537-541				.002	<

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	DESCRIPTION	ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
						⁂ = druzy qtz pyrite VNS						
	110	33 SiO2 py VN		2-3% dism + VN py + marcasite		540-674.3 FINE GRAINED CRYSTAL TUFF - TMB (continued - same description @ above)	541-547				.002	<
	99											
550		green SiO2 py 10					547-552				.002	<
	100											
							552-557				.002	<
560		70 SiO2 py				559.5-560 breccia vein - clasts same @ host FGT. matrix supported - SiO2 - clasts - subrounded; bleached locally druzy vuggy qtz - very open spaced w/ local sericite alt. fill	557-562				.002	<
	92											
		62 SiO2 py					562-567				.001	<
570						573-574.3 breccia vein - to SiO2 filled CRACKLE breccia w/ rotation; bleached sulfides w/ in matrix locally, mod.-strong pervasive silicification druzy to hi temp qtz fill local blue green mineral w/ in matrix w/ depth	567-572				.002	<
	112											
		20/68 SiO2 py					572-577				.003	<
580	96						577-582				.002	<
	95	65 SiO2 py										
						588-592 strong druzy qtz - vuggy veins w/ marcasite or pyrite replaced marcasite local breccia veins w/ micro breccia fill; SiO2 rich matrix; weak local blue green mineral	582-587				.003	<
590		32/ py SiO2					587-592				.009	<
	89											
		35/ py				597.3-599 Intense brecciation; broken rubble - matrix rich → SiO2 - locally druzy vuggy qtz (w/ crackle breccia above the zone); local sericite fill in vugs. strong perv. silicification weak blue green mineral w/ in matrix. clasts - granular + FGT	592-597.3				.002	<
600	80						597.3-599				.005	<
	88	58/ clay + py					599-606				.001	<
		±50/ py										
610							606-611				.002	<

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG
	100	72 / 74	56 / tan + clay	2-3% diss + vn py ± mar + casite	
620	104	65 / 74			
		79 / 74			
		61 / green clay vn			
630	97	70 / tan ± mar + casite		11 @ 4%	
				2-3% diss + vn py	
640	105	56 / 74			
		80 / blue-green clay + py			
650	102	75			
		65 / py vn			
		±5 / grn clay + py			
660	100				
		40 / Co(OH)3 + py vn			
670	98	20 / grn clay + py	15 / sil vn		
		py / 20		±2% diss + vn py	
680			55 / fract		

DESCRIPTION

610 - 674.3 FINE GRAINED CRYSTAL TUFF (continued @ above) TMB

w/ depth - the chlorite like to blue green mineral increases w/ in fractures w/ permeation out from fracts.

@ ± 660 : calcite veining is introduced into the system

663 - 674.3 increased fracturing w/ deep green chlorite(?) alt ± local calcite ; w/ pervasive moderate silicification

674.3 - 837 LITHIC LAPILLI TUFF - Bedded Bud description on following page

contact w/ FGT is breccia - silicified no prominent Angle - more gradational

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
611-616				.002	<
616-620				.002	<
620-624				.002	<
624-629				.001	<
629-634				.005	.12
634-639				.002	<
639-645				.003	<
645-650				.001	<
650-655				.001	<
655-660				.001	<
660-665				.001	<
665-670				.001	<
670-674.3				>	<
674.3-680				.001	<

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG
	100		38/fract	±1% diss + vn py	
690	98	20/py vn			
		34/flo			40/34°
700	100	60 py vn 28 flo	flo/30°		
		50/ca vn			
710	99	35/flo			
		42/ca vn			
720	101	ca vn /60			
730	104	38/py vn			
			40 fract		
740	101	25/flo	20/ca vn		
		flo/33	/33 ca vn		
750					

DESCRIPTION

680-837 LITHIC LAPILLI TUFF (continued)
BEDDED BUD -

HETEROLITHIC - CLAST SUPPORTED - frags w/ wk to mod bleaching, local green to blue green alt & local intense white clay alt. CLASTS APPEAR to be pumice, flow banded to FGT & possible few dk gray Jurrassic shale clasts. CLAST SIZE averages 2mm to 6mm. There are a trace # of 30-36mm clasts. matrix appears to be a fine grained tuffaceous texture w/ local intense sage green to blue green clay alteration - locally showing flow direction ~ 25-30° to core axis weakly veined w/ calcite + pyrite + local vuggy druzy qtz-py veins

686.4-689.4 CRACKLE Brecciated w/ local rotated clasts poss wkly mod silicification

713-741 zone of 1-2% clasts up to 1"-1½" wide w/ blue green mineral alt. of clasts ± matrix
705-713 weakly wispy

741-779 wispy bedded bud w/ flattened pumice frags varying in flo angle from 25°-45° to core axis

ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
680-685				.003	<
685-690					
690-695					
695-700					
700-705					
705-710					
710-715					
715-720					
720-726					
726-731					
731-736					
736-741					
741-746					
746-751					

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	DESCRIPTION	ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
	96	38/flo	43/ca vn	1-2% diss ± vn py		750 - 837 LITHIC LAPILLI TUFF (continued) BEDDED BUD	751-756					
760	100	43/flo; 25/flo	42/ca vn			779-795 clast supported bedded bud w/ ~ 2% clasts varying from 1" to 6" in diameter; local relict wispy pumice frags	756-761; 761-766					
770	99	26/flo					766-771; 771-776					
780	98	36/flo; 55°/10 CaCO3 + py vn				779-814 coarser clasted bedded bud non-matrix supported w/ up to 3-5% clasts averaging 10-20 mm wide	776-781; 781-786					
790	97	23/flo				794.9-795.3 CALCITE VEIN	786-791; 791-797					
800	100	48/CaCO3 vn	38/ca vn; 28/flo				797-802; 802-807					
810	100	65/CaCO3 vn					807-812; 812-817					
820							817-825					

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	DESCRIPTION
	98	25 chalcop py vein		~1% diss ±VN py		820 - 837 LITHIC LAPILLI TUFF (continued) BEDDED BUD
830	100	23/ chalcop vn				831-837 Bedded Bud w/ coarser clasts more matrix supported - strong lr sage green clay alteration
840	101	py vn 36 / 55 / py vn	±5° w/ chalcop fill	1-2% diss +VN py ±mar casite +local buck-shot py		837 - 1205 FINE GRAINED TUFF - mottled buff to lt green moderatly pervasively bleached, weak perv. clay alt. w/ local 1"-2" clay gouge seams, perv. weak w/ local moderate fracture veining w/ pyrite - sericite + local clay + local druzy qtz py ± marcasite w/ local bluegreen mineral, local crackle breccia w/ rotated clasts & locally brecciated local weak silicification
850	99	42 / py vn	43 / py vn			
860	100	45 / py vn				856.4-857 white w/ hint green clay gouge w/ ~2"-3" breccia seam 857 - 857.6 w/ milled frags
870	92	38 / py vn 30 / py sericite qtz vn	43 / chalcop py vn			862 - 867 intermittent microbreccia veins clast supported w/ sericite + clay + bluegreen mineral ± pyrite fill
880	100	39 / chalcop py vn / 39 / py vn	75		gouge 75	872 - 892 becoming more like a volcanic breccia - a tuff which has been AUTObrecciated may be contact related to breccia @ 892 - 894.5 881.7 - 882.3 strong clay gouge + sericite + bluegreen mineral & brecciated - clay fill
890					gouge 70	

ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
817-825					
825-832					
832-837					
837-842					
842-847					
847-852					
852-857					
857-862					
862-867					
867-872					
872-877					
877-882					
882-887					
887-892				.002	<1

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG
900	92	52° / wnx	28 / fract	1-2% diss + VN py ± marc site blade sulfd	
		30 / co VN			
	105	40 / py VN			
910	100				
		48 / rare py clay VN	co / py VN	3-4% VN + diss py ± blade sulf	
920	103	30 / flo			
930	102	82 / flo	42 / py ca VN	2-3% VN + diss py	
		80 / bt banding vs. flo?	62 / clay sw. py VN		
940	99	43 / py + clay VN			
950	96	flo ? / 4			
960		VNs + pseudo 45 / 15			

DESCRIPTION

890 – 1205 LBT

FAULT

no measurable contact

892 – 894.5 FAULT – matrix supported, REHEALED heterolithic, clasts: bleached to clay altered to green w/ local breccia in a breccia matrix: predom silica w/ microbreccia matrix + blue green mineral. Local druzy vuggy qtz veins w/ sericite fill w/ blebs of sulfide or marcasite. strongly silicified

* mineralizing assoc. w/ clays

894.5 – 902 FAULT – FINE GRAINED TUFF CONTACT moderately to strongly intermittently silicified crackle brecciated to brecciated w/ rotated clasts – predom FGT. local SiO_2 rich matrix, local assoc. poss electrum in replaced clasts, rarely to 2 veins w/ butter yellow oxidized clay fill w/ local SiO_2 ± pyrite electrum veins ± trace blue green mineral

902 – 960 FINE GRAINED TUFF

fresh coloration; local bugs, local relict flow texture intermittent white bleaching – predom fine grained, strongly veined w/ banding of pyrite ± SiO_2 + blue green ± FeO_x local gray clay alt relict fill w/ poss electrum

902-914 broken rubble zone – poss due to ↑ clay alt zone in footwall of fault ✓ mod Kaolinite ⊕ fracture fill

914-955.6 Banded Tuff w/ variegated bleaching – mod veined w/ pyrite ± Kaolinite ± SiO_2 fill

955.6-960 intermittently veined brecciated w/ local micro A and HIX vuggy w/ white kaolinite clay + local blebs of sulfide

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
892-897				.014	<.1
897-902				.019	.10
902-907				.005	.22
907-911.5				.003	.10
911.5-915				.019	2.16
915-919				.032	.25
919-924				.013	.17
924-928				.010	.19
928-932				.011	.23
932-937				.024	.22
937-942				.022	.25
942-947				.019	.25
947-951.5				.007	<.10
951.5-955.6				.007	.13
955.6-960				.015	.19

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	DESCRIPTION
970	100, 102	30/ py VN pseudo flo; 20 SiO2 py 57	72	2-3% VN ±diss py		960 - 1205 FINE GRAINED TUFF (continued)
980	105, 70, 80, 109	55° flo; 40/ SiO2 py VN; 24/ white clay VN	78 vesic flo; 60/ fract	~2% diss + VN ±buck shot py		960 - 977.5 Banded Tuff (continued) weak flesh to buff coloration w/ variegated white banding - wk to mod pervasive bleaching w/ intermittent vein breccia w/ local open kaolinite filled cracks weak local crackle brecciation mod pervasive silicification
990	100	62/ flo	±5° py VN		90 ug 60; 70 gouge contact	977.5 - 982 FGT w/ speckled texture w/ weak to moderate fine stockwork fracturing veining w/ kaolinite + pyrite ± SiO2 fill
1000	97	±5°/ 50/ SiO2 py white clay VN	SiO2-py vein along 35; 50°/ SiO2 py VN	@ 34° ~2% diss + VN ±buck shot py	60 gouge	982 - 1014.3 FGT - possible fault or series of faults w/ silicified breccias w/ clay gouge footwalls, there are 4 silicified breccia zones followed by clay gouge locally crackle brecciated. The silicified zones usually break at ~60° to core axis w/ last one @ 42° to core axis. The grades which run Au are associated with the clay gouge.
1010	102		50°/ SiO2 py VN			FAULT SERIES
1020	102	10/ SiO2 white clay biogenic silt VN	82 pseudo flo; 42/			1014.3 - 1107 Fine grained, weakly banded tuff, moderately to locally strongly veined w/ pervasive pyrite + kaolinite w/ wk to mod pervasive silicification intermittent brecciation to crackle breccia local strong kaolinite clay fracture stamp and breccia fill, local flush of chalcedonic silicification (1-2 mm widths)
1030		85 py VN	50° py SiO2 VN			

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
960-965				.009	<.10
965-970				.026	.17
970-975				.037	.17
975-980				.028	<.10
980-984				.007	<.10
984-986.3				.005	<.10
986.3-989.6				.027	.25
989.6-996.3				.002	.27
996.3-1000.2				.016	.87
1000.2-1006				.002	<.10
1006-1009.8				.010	.14
1009.8-1014				.017	<.10
1014-1018				.024	.74
1018-1022				.005	.14
1022-1027				.013	.49
1027-1032				.016	1.66

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERAL-IZATION	GRAPHIC LOG
	100	25 clay VN; 65 flo	24 frac'd VN; 74 py VN	2-3% vein + diss + buck shot py + local stibnite	
1040	102	(as Δ); 70 10/ py clay VN			
1050	92	22 py VN; 58 kaolin VN		3-4% diss + VN py + STIBNITE	KAOLINITE + STIBNITE
1060	100	70 py VN; 30 clay frac'd VN	30/ foot		
1070	94				
1080	105	35 py VN; 65 banding	44 py VN	+2% diss + VN pyrite + local stibn	
1090	105	40 py VN; 35 banding			
1100	55	45 clay flos VN			

DESCRIPTION

1030 - 1205 FINE GRAINED TUFF (CONTINUED)
(intermittently banded)

1032-1037 has strong fracturing w/ white kaolinite + stibnite fill w/ local silicified vein brecciation.

1052 - 1074 zone of moderately strong fracture veining w/ associated chalcedony veins + strong kaolinite (white) fill that has oxidized to a butter yellow - POST drilling ? w/ assoc fine disem pyrite + stibnite

1074 - 1107 fine grained tuff - pur. banded ; weakly to locally moderately silicified mod. pervasive veining parallel and perpendicular to banding pr. dom buff w/ hint of green alt local weak brecciation w/ local crackle breccia

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
1032-1037				.023	2.68
1037-1042				.018	1.11
1042-1047				.002	<.10
1047-1052				.007	<.10
1052-1057				.023	.16
1057-1062				.031	4.79
1062-1068				.004	.13
1068-1072				.006	<.10
1072-1075				.006	.13
1075-1080				.001	.13
1080-1085				.007	.16
1085-1090				.006	<.10
1090-1095				.002	<.10
1095-1102				.003	<.10

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	DESCRIPTION	ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
						1100 – 1205 FINE GRAINED TUFF (CONTINUED)						
	99	45 bands	45 60 py vns ±SiO2	4-5% diss +VN py ±shb NITE			1102-1107				.006	.12
1110	102					1107 – 1113.5 fault zone w/ pvs. silicification & brecciation - SiO2 rehealed w/ strong white kaolinite ± local buggy clusters qtz + local chalcedony (white) veining, local very fine sulfide + SiO2 matrix = black matrix breccia	1107-1110				.014	.16
							1110-1113.5				.013	<
							1113.5-1118				.003	<
1120	99	75 Kaolin VN 75	45 py VN	2-3% diss +VN py +black py		1113.5 – 1152 fine grained tuff w/ ↓ banding, pvs bleached mottled weakly hm/limo bubb w/ pyrite diss. blebbed sulfide (as replacement?) mod veined w/ fine stockworking of kaolinite + pyrite + local SiO2 - ↑temp + chalcedony, local silicified breccia veins	1118-1122				.005	<
							1122-1126				.001	<
1130	105	60 py VN 63 SiO2 py VN	55 py VN			1141 – 1142 broken rubble	1126-1130				.007	<
							1130-1135				.001	.11
		35 SiO2 clay +py VN					1135-1140				<	.31
1140	100	py VN 48 bands 20 clay py VN	45 clay SiO2 +py 20° banding	±1% diss +VN py			1140-1145				.005	<
							1145-1150.5				.003	<
1150	98	30 clay py VN 50° clay VN	±5° py VN			1152 – 1176 Brecciated fine grained Tuff possibly autobrecciated or poss fault related, weak pyrite / mixture veins w/ local calcite veins clast supported w/ fine tuffaceous matrix w/ weak oxidation of matrix	1150.5-1155.5				<	.11
							1155.5-1160.5				.015	<
1160	105	30 py VN				1161 – 1170 pervasive broken rubble - also a result of splitting core	1160.5-1165				<	<
1170			TD fault				1165-1170				<	<

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG
	95	25 / CaCO3 pyrite clay vn	clay + py vn / 20	±1% diss + vn py	50° CaCO3
				2-3% vn + diss py + stibnite	
1180	100	FeOx + clay vn / 10		±1% diss + vn py	
			fract / 23		
1190	100	35 / fract			
1200	103	CaCO3 vn		1-2% diss + vn py ± local marca	SHEAR 55°
1210	105	55 / foliat			
		60 / foliat			
1220	100				
1230	98	62 / foliat	50 / 80		
1240		foliat / 60			
1242					

DESCRIPTION

1170 - 1172.5 poss. primary silicified fault brecciated clast supported w/ microbreccia matrix

1176 - 1176.6 calcite + clay breccia vein ± SiO_2 @ 50° to core axis

1176 - 1182 breccia seam in tuffs (?) brecciated tuffs w/ strong white clay (kaolinite) fill; strong assoc disseminated sulfides mod perv silicified mod calcite fill + vnlets + local crackle breccia to vein breccia, wk - mod silicification (FRACT)

1182 - 1201.5 Fine Grained Tuffs - w/ mod strong SiO_2 content weak to mod perv bleaching, pervasively fractured w/ reddish purple + lite apple green coloration w/ weak white clay along fractures, possibly silicified perv. clays - ± yellow gum - unusual poss local dark gray Ag mineral in veins

1201.5 - 1205 Shear Zone - lr tomedium army green clay alt - fine grained tuffs w/ shiny talc appearance w/ pin diss + vnlet pyrite ± local calcite

1205 - 1242

Jurassic - Triassic Sediments - metamorphosed carbonaceous shales w/ fine thin bedded siltstone layers, weakly to moderately silicified w/ prominent foliation ~ 55 - 60° to core axis, weak calcite veining usually perpendicular to foliation

1231' - 1242' w/ intermittent silicified breccia seams up to 9" wide w/ strong silica matrix w/ local strong vuggy drusy qtz veins; micro-breccia + SiO_2 matrix

ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
1170-1175				.002	.10
1175-1180.5				.005	.60
1180.5-1186				.005	.18
1186-1191				<.001	<
1191-1196				<	.15
1196-1201				<	<
1201-1205				<	<
1205-1210				<	<

RL - 99
0 - 465' RC'd

7-26-90

KWT / DAM

Sample Recovered	% Rec
465-472	7.9/7 =
472-482	100%
482-492	94%
492-502	100%
502-512	99%
512-522	96%
522-532	99%
532-540.5	8.3/8.5 =
540.5-545	4.4/4.5
545-552	16.9/7 =
552-562	100%
562-572	92%
572-577	5.6/5 =
577-582	4.8/5 =
582-592	95%
592-	2.0+

Sample Int.
465-467
467-472
472-477
477-482
482-487
487-492
492-494.4
494.4-496
496-501
501-504
504-508
508-512
512-517
517-522
522-527
527-532
532-537
537-541
541-547
547-552
552-557
557-562
562-567
567-572
572-577
577-582
582-587
587-592
592-597

Lithology

465 - 494.4 GREEN PYROCLASTIC (BUD BRECCIA)
LITHIC LAPILLI TUFF, < 32m
LOCAL CALCITE/SULFIDE VN w
LOCAL DTSS. BUCKSHOT PYRITE

*494.4 - 496 FAULTED CONTACT
STR. SILICIFIED, STR. BRECCIA
BERLITE ALTERED, MOD. PYRITIC V.

496 - 674.3 - LT BEIGE/ORANGE
w LOCAL LIGHT SAGE GREEN, WK-MOD
FRACTURED, CRYSTAL POOR TUFF.
WEAK-MOD BLEACH.

RL-99

SAMPLE RECOVERED	% RECOVERED	SAMPLE INTERVAL
– 599	6.2/7	592 – 597.3
* 599 – 601 (RESULT TO N)	1.6/2 = 80%	597.3 – 599
601 – 610.5	8.4/9.5 = 88%	599 – 606
610.5 – 620.5	100% – 100%	606 – 611
620.5 – 629	8.9/8.5 = 104%	611 – 616
629 – 639.5	10.2/10.5 = 97%	616 – 620
639.5 – 650	10/9.5 = 105%	620 – 624
650 – 660	10.2/10 = 102%	624 – 629
660 – 670	10/10 = 100%	629 – 634
670 – 680	9.8/10 = 98%	634 – 639
680 – 690	10+/10 = 100+%	639 – 645
690 – 700.5	10.3/10.5 = 98%	645 – 650
700.5 – 710.5	10/10 = 100%	650 – 655
710.5 – 720.5	9.9/10 = 99%	655 – 660
720.5 – 731	10.2/9.5 = 1.07%	660 – 665
731 – 741	10.4/10 = 104%	665 – 670
741 – 751	10.1/10 = 101%	670 – 674.3
751 – 761.5	10.1/10.5 = 96%	674.3 – 680
761.5 – 771.5	10/10 = 100%	680 – 685
771.5 – 781.5	9.9/10 = 99%	685 – 690
781.5 – 791.5	9.8/10 = 98%	690 – 695
791.5 – 802	10.2/10.5 = 97%	695 – 700
802 – 812	10/10 = 100%	700 – 705
812 – 822	100%	705 – 710
822 – 832	98%	710 – 715
832 – 842	100%	715 – 720
842 – 852	101%	720 – 726
852 – 862	99%	726 – 731
862 – 872	100%	731 – 736
872 – 882	92%	736 – 741
882 – 892	100%	741 – 746
892 – 902	92%	746 – 751
902 – 911.5	10/9.5	751 – 756
911.5 – 922	100%	756 – 761
922 – 932	103%	761 – 766
932 – 942	102%	766 – 771
942 – 951.5	9.4/9.5	771 – 776

(Split 825 – 1242)

LITHOLOGY

(594.5) – 674.3 SAA

DECREASING FRACTURES TO CONTACT

597.3 – 599 SILICIFIED FAULT ZONE

674.3 – 837 GREEN LAPILLI TUFF (BUD BRECCIA) CLAST

LOCAL VOLCANIC BRECCIA (Δ 3)

OCCASIONAL 1" CALCITE VEINS

split to either side

682.4 – 686.4 FAULT ZONE ?

837 – 1205 (Dozer)

pink – sage green (lt.) fn grn Tuff w/ local slt to intense fine fault zones

cut

* 890.7 – 1022

wht – pink blc, local int. sericite alt, local slt – int rehealed bx/faults

897 – 902

New ? Alteration yellow, clay or sericite alt to intense for zone w/ fn grn diss pyrite to 3%

RL-99

7-30-90

KWT / DAM

SAMPLE RECOVERED	% RECOVERED
952-962	96%
962-972	100%
982	102%
984	2.1/2
986	1.4/2
986 987.5	1.2/1.5
987.5-992	4.9/4.5
992-1002	100%
1002-1012	97%
1012-1022	102%
1022-1032	102%
1032-1042	100%
1042-1052	102%
1052-1062	92%
1062-1068	100%
1068-1075	6.6/7
1075-1085	105%
1085-1095	105%
1095-1107	6.6/
1107-1112	99%
1112-1122	102%
1122-1130	7.9/8
1130-1140	105%
1140-1150.5	100%
1150.5-1160.5	10.3/10.5
1160.5-1170	10/9.5
1170-1180.5	10/10.5
1180.5-1191	100%
1191-1201	100%
1201-1211.5	10.8/10.5
1211.5-1222	10/9.5
1222-1232	100%
-1242	98%
T.D. -1242	

SAMPLE INTERVAL	LITHOLOGY
776-781	776-781
781-786	781-786
786-791	786-791
791-797	791-797
797-802	797-
802-807	
807-812	
812-817	
817-825 ✓	817-825
825-832	
832-837	
837-842	
842-847	
847-852	
852-857	
857-862	
862-867	
867-872	
872-877	
877-882	
882-887	
887-892	
892-897	
897-902	
902-907	
907-911.5	
911.5-915	
915-919	
919-924	
924-928	
928-932	
932-937	
937-942	
942-947	
947-951.5	
951.5-955.6	
955.6-960	
960-965	
965-970	

1205-1231.7
Blk-gry, chaotic, Fra
thin bedded siltstone
(soft sed. deformed)

1231.7-1242 Fra
Blk, fo/intch shale,
stg si/ bx contact
w/ [illegible] si. Uning.

RL-99 7-30-90 KNT/DAM

Sample Interval

- 970-975
975-980
980-984
984-986.3
986.3-989.6
989.6-996.3
996.3-1000.2
1000.2-1006
1006-1009.8
1009.8-1014
1014-1018
1018-1022
1022-1027
1027-1032
1032-1037
1037-1042
1042-1047
1047-1052
1052-1057
1057-1062
1062-1068
1068-1072
1072-1075
1075-1080
1080-1085
1085-1090
1090-1095
1095-1102
1102-1107
1107-1110
1110-1113.5
1113.5-1118
1118-1122
1122-1126
1126-1130
1130-1135
1135-1140
1140-1145
1145-1150.5
1150.5-1155.5
1155.5-1160.5
1160.5-1165
1165-1170
1170-1175
1175-1180.5
1180.5-1186
1186-1191
1191-1196
1196-1201
1201-1205
1205-1210
1210-1216
1216-1222
1222-1226
1226-1231
1231-1234
1234-1236
1236-1242 TD

$\boxed{1175-1180.5}$
$CaCO_3$ (fizz)
fault bx
+ siltstone +
mascasite

$\boxed{1107-1113.5}$
sheared
fault zone

(1155-1205)
poorly well rnd &
lithic frags < 1/2"
possible lithic
tuff?

$\boxed{1231-1237}$
Tra sts
silic bx/
fault zone

NEVADA GSI

AUG 28 1990

GEOCHEMICAL ANALYSIS REPORT

August 24, 1990

CUST. CODE: LOA
PROJECT: URBD-79014
P.O. #: XXXX
LOT ID: 8053

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-99	0	5	-0.001	-.10
2.	RL-99	5	10	-0.001	-.10
3.	RL-99	10	15	-0.001	-.10
4.	RL-99	15	20	-0.001	-.10
5.	RL-99	20	25	-0.001	-.10
6.	RL-99	25	30	-0.001	-.10
7.	RL-99	30	35	-0.001	-.10
8.	RL-99	35	40	-0.001	-.10
9.	RL-99	40	45	-0.001	-.10
10.	RL-99	45	50	-0.001	-.10
11.	RL-99	50	55	-0.001	-.10
12.	RL-99	55	60	0.004	-.10
13.	RL-99	60	65	-0.001	0.18
14.	RL-99	65	70	0.001	-.10
15.	RL-99	70	75	0.002	-.10
16.	RL-99	75	80	0.002	-.10
17.	RL-99	80	85	0.007	-.10
18.	RL-99	85	90	0.002	-.10
19.	RL-99	90	95	0.002	-.10
20.	RL-99	95	100	0.001	-.10
21.	RL-99	100	105	0.002	-.10
22.	RL-99	105	110	0.008	0.14
23.	RL-99	110	115	0.001	-.10
24.	RL-99	115	120	0.002	-.10
25.	RL-99	120	125	0.001	-.10
26.	RL-99	125	130	0.004	-.10
27.	RL-99	130	135	0.001	-.10
28.	RL-99	135	140	0.001	-.10
29.	RL-99	140	145	0.001	0.10
30.	RL-99	145	150	0.001	-.10
31.	RL-99	150	155	0.002	-.10
32.	RL-99	155	160	0.001	-.10
33.	RL-99	160	165	0.002	-.10
34.	RL-99	165	170	0.002	-.10

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	SAMPLE I.D.			Au o/t	Ag o/t
35.	RL-99	170	175	-0.001	-.10
36.	RL-99	175	180	0.001	-.10
37.	RL-99	180	185	-0.001	-.10
38.	RL-99	185	190	0.006	-.10
39.	RL-99	190	195	0.002	-.10
40.	RL-99	195	200	0.001	-.10
41.	RL-99	200	205	-0.001	-.10
42.	RL-99	205	210	0.001	-.10
43.	RL-99	210	215	0.002	-.10
44.	RL-99	215	220	0.001	-.10
45.	RL-99	220	225	0.005	-.10
46.	RL-99	225	230	0.008	-.10
47.	RL-99	230	235	0.004	-.10
48.	RL-99	235	240	0.039	-.10
49.	RL-99	240	245	0.007	-.10
50.	RL-99	245	250	0.001	-.10
51.	RL-99	250	255	-0.001	-.10
52.	RL-99	255	260	0.002	-.10
53.	RL-99	260	265	0.002	-.10
54.	RL-99	265	270	0.001	-.10
55.	RL-99	270	275	0.002	-.10
56.	RL-99	275	280	0.002	-.10
57.	RL-99	280	285	0.002	-.10
58.	RL-99	285	290	0.007	-.10
59.	RL-99	290	295	0.002	-.10
60.	RL-99	295	300	0.001	-.10
61.	RL-99	300	305	0.002	0.10
62.	RL-99	305	310	0.006	-.10
63.	RL-99	310	315	-0.001	-.10
64.	RL-99	315	320	0.001	-.10
65.	RL-99	320	325	0.010	-.10
66.	RL-99	325	330	0.103	0.16
67.	RL-99	330	335	0.008	-.10
68.	RL-99	335	340	-0.001	-.10
69.	RL-99	340	345	-0.001	-.10
70.	RL-99	345	350	0.001	-.10
71.	RL-99	350	355	0.001	-.10
72.	RL-99	355	360	-0.001	-.10
73.	RL-99	360	365	-0.001	-.10
74.	RL-99	365	370	0.010	-.10
75.	RL-99	370	375	-0.001	-.10
76.	RL-99	375	380	-0.001	-.10
77.	RL-99	380	385	-0.001	-.10
78.	RL-99	385	390	-0.001	-.10
79.	RL-99	390	395	0.002	-.10
80.	RL-99	395	400	0.016	0.18
81.	RL-99	400	405	0.001	-.10
82.	RL-99	405	410	-0.001	-.10

	SAMPLE I.D.			Au o/t	Ag o/t
83.	RL-99	410	415	-0.001	-.10
84.	RL-99	415	420	-0.001	-.10
85.	RL-99	420	425	-0.001	-.10
86.	RL-99	425	430	0.001	-.10
87.	RL-99	430	435	-0.001	-.10
88.	RL-99	435	440	-0.001	-.10
89.	RL-99	440	445	-0.001	-.10
90.	RL-99	445	450	0.007	-.10
91.	RL-99	450	455	0.003	-.10
92.	RL-99	455	460	-0.001	-.10
93.	RL-99	460	465	-0.001	-.10

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This report reviewed and approved by:

Richard A. Grondin

Richard Grondin, Laboratory Director

NEVADA GSI

AUG 28 1990

GEOCHEMICAL ANALYSIS REPORT

August 24, 1990

CUST. CODE: LOA
PROJECT: URBD
P.O. #: XXXX
LOT ID: 8090

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-99C	482	487	-0.001	-.10
2.	RL-99C	487	492	-0.001	-.10
3.	RL-99C	492	494.4	-0.001	-.10
4.	RL-99C	494.4	496	0.007	-.10
5.	RL-99C	496	501	0.004	-.10
6.	RL-99C	501	504	0.004	-.10
7.	RL-99C	504	508	0.002	-.10
8.	RL-99C	508	512	0.003	-.10
9.	RL-99C	512	517	0.024	-.10
10.	RL-99C	517	522	0.003	-.10
11.	RL-99C	522	527	0.001	-.10
12.	RL-99C	527	532	0.003	-.10
13.	RL-99C	532	537	0.002	-.10
14.	RL-99C	537	541	0.002	-.10
15.	RL-99C	541	547	0.002	-.10
16.	RL-99C	547	552	0.002	-.10
17.	RL-99C	552	557	0.002	-.10
18.	RL-99C	557	562	0.002	-.10
19.	RL-99C	562	567	0.001	-.10
20.	RL-99C	567	572	0.002	-.10
21.	RL-99C	572	577	0.003	-.10
22.	RL-99C	577	582	0.002	-.10
23.	RL-99C	582	587	0.003	-.10
24.	RL-99C	587	592	0.009	-.10
25.	RL-99C	592	597.3	0.002	-.10
26.	RL-99C	597.3	599	0.005	-.10
27.	RL-99C	599	606	0.001	-.10
28.	RL-99C	606	611	0.002	-.10
29.	RL-99C	611	616	0.002	-.10
30.	RL-99C	616	620	0.002	-.10
31.	RL-99C	620	624	0.002	-.10
32.	RL-99C	624	629	0.001	-.10
33.	RL-99C	629	634	0.005	0.12
34.	RL-99C	634	639	0.002	-.10

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	SAMPLE I.D.			Au o/t	Ag o/t
35.	RL-99C	639	645	0.003	-.10
36.	RL-99C	645	650	0.001	-.10
37.	RL-99C	650	655	0.001	-.10
38.	RL-99C	655	660	0.001	-.10
39.	RL-99C	660	665	0.001	-.10
40.	RL-99C	665	670	0.001	-.10
41.	RL-99C	670	674.3	-0.001	-.10
42.	RL-99C	674.3	680	0.001	-.10
43.	RL-99C	680	685	0.003	-.10

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This report reviewed and approved by:

Richard A. Grondin

Richard Grondin, Laboratory Director

GEOCHEMICAL SERVICES INC.

Job No.: loas8743

No.	Sample Id			Au opt	Ag opt
1	RL-130	430.1	436	-.0010	-.1000
2	P-89			.0200	.1000
3	RL-130	436	442	-.0010	.1000
4	RL-130	442	447	-.0010	-.1000
5	RL-130	447	452	-.0010	-.1000
6	RL-130	452	457	.0190	-.1000
7	RL-130	457	462	-.0010	-.1000
8	RL-130	462	467	.0030	.1800
9	RL-130	467	472	.0040	-.1000
10	RL-130	472.5	479	.0070	-.1000
11	RL-130	479	482	.0040	-.1000
12	RL-130	482	487	.0060	-.1000
13	RL-130	487	492	.0020	-.1000
14	RL-130	492	497	.0040	-.1000
15	RL-130	497	502	.0050	-.1000
16	RL-130	502	507	.0020	-.1000
17	RL-130	507	513	.0020	-.1000
18	RL-130	513	520	.0020	-.1000
19	RL-130	520	524.7	.0040	-.1000
20	RL-130	524.7	529	.0040	-.1000
21	RL-130	529	533	.0040	-.1000
22	P-90			.0200	-.1000
23	RL-130	533	538	.0060	-.1000
24	RL-130	538	542.5	.0050	-.1000
25	RL-99	342	347	.0140	-.1000
26	RL-99	837	842	.0530	-.1000
27	RL-99	847	852	.0090	-.1000
28	RL-99	852	857	.0020	-.1000
29	RL-99	857	862	-.0010	-.1000
30	RL-99	862	867	.0210	-.1000
31	RL-99	867	872	-.0010	-.1000
32	RL-99	872	877	.0020	-.1000
33	RL-99	877	882	.0050	.2700
34	RL-99	882	887	.0030	-.1000
35	RL-10	611	626	.0020	-.1000
36	RL-10	626	639	.0020	-.1000
37	RL-10	639	646	.0020	.1500
38	RL-10	646	652	.0020	-.1000
39	RL-10	652	656	.0040	-.1000
40	RL-10	656	660	.0060	-.1000
41	RL-10	660	665	.0040	-.1000
42	P-91			.0200	-.1000
43	RL-10	665	672	.0030	-.1000
44	RL-10	672	677	.0040	-.1000
45	RL-10	677	682	.0030	-.1000

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RL-99C

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1/800/827-4GSI

NEVADA GSI

AUG 14 1990

GEOCHEMICAL ANALYSIS REPORT

August 9, 1990

CUST. CODE: LOA
PROJECT: URBD
P.O. #: XXXX
LOT ID: 8123

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-99C	887	892	0.002	-.10
2.	RL-99C	892	897	0.014	-.10
3.	RL-99C	897	902	0.019	0.10
4.	RL-99C	902	907	0.005	0.22
5.	RL-99C	907	911.5	0.003	0.10
6.	RL-99C	911.5	915	0.019	2.16
7.	RL-99C	915	919	0.032	0.25
8.	RL-99C	919	924	0.013	0.17
9.	RL-99C	924	928	0.010	0.19
10.	RL-99C	928	932	0.011	0.23
11.	RL-99C	932	937	0.024	0.22
12.	RL-99C	937	942	0.022	0.25
13.	RL-99C	942	947	0.019	0.25
14.	RL-99C	947	951.5	0.007	-.10
15.	RL-99C	951.5	955.6	0.007	0.13
16.	RL-99C	955.6	960	0.015	0.19
17.	RL-99C	960	965	0.009	-.10
18.	RL-99C	965	970	0.026	0.17
19.	RL-99C	970	975	0.037	0.17
20.	RL-99C	975	980	0.028	-.10
21.	RL-99C	980	984	0.007	-.10
22.	RL-99C	984	986.3	0.005	-.10
23.	RL-99C	986.3	989.6	0.027	0.25
24.	RL-99C	989.6	996.3	0.002	0.27
25.	RL-99C	996.3	1000.2	0.016	0.87
26.	RL-99C	1000.2	1006	0.002	-.10
27.	RL-99C	1006	1009.8	0.010	0.14
28.	RL-99C	1009.8	1014	0.017	-.10
29.	RL-99C	1014	1018	0.024	0.74
30.	RL-99C	1018	1022	0.005	0.14

This report reviewed and approved by:

Richard A. Grondin

Richard Grondin, Laboratory Director

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NEVADA GSI, INC.

AUG 30 1990

GEOCHEMICAL ANALYSIS REPORT

August 29, 1990

CUST. CODE: LOA
PROJECT: URBD
P.O. #: XXXX
LOT ID: 8135

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-99C	1022	1027	0.018	0.49
2.	RL-99C	1027	1032	0.016	1.66
3.	RL-99C	1032	1037	0.023	2.68
4.	RL-99C	1037	1042	0.018	1.11
5.	RL-99C	1042	1047	0.002	-0.10
6.	RL-99C	1047	1052	0.007	-0.10
7.	RL-99C	1052	1057	0.023	0.16
8.	RL-99C	1057	1062	0.031	4.79
9.	RL-99C	1062	1068	0.004	0.13
10.	RL-99C	1068	1072	0.006	-0.10
11.	RL-99C	1072	1075	0.006	0.13
12.	RL-99C	1075	1080	0.001	0.13
13.	RL-99C	1080	1085	0.007	0.16
14.	RL-99C	1085	1090	0.006	-0.10
15.	RL-99C	1090	1095	0.002	-0.10
16.	RL-99C	1095	1102	0.003	-0.10
17.	RL-99C	1102	1107	0.006	0.12
18.	RL-99C	1107	1110	0.014	0.16
19.	RL-99C	1110	1113.5	0.013	-0.10
20.	RL-99C	1113.5	1118	0.003	-0.10
21.	RL-99C	1118	1122	0.005	-0.10
22.	RL-99C	1122	1126	0.001	-0.10
23.	RL-99C	1126	1130	0.007	-0.10
24.	RL-99C	1130	1135	0.001	0.11
25.	RL-99C	1135	1140	-0.001	0.31
26.	RL-99C	1140	1145	0.005	-0.10
27.	RL-99C	1145	1150.5	0.003	-0.10
28.	RL-99C	1150.5	1155.5	-0.001	0.11
29.	RL-99C	1155.5	1160.5	0.015	-0.10
30.	RL-99C	1160.5	1165	-0.001	-0.10

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	SAMPLE I.D.			Au o/t	Ag o/t
31.	RL-99C	1165	1170	-0.001	-0.10
32.	RL-99C	1170	1175	0.002	0.10
33.	RL-99C	1175	1180.5	0.005	0.60
34.	RL-99C	1180.5	1186	0.005	0.18
35.	RL-99C	1186	1191	-0.001	-0.10
36.	RL-99C	1191	1196	-0.001	0.15
37.	RL-99C	1196	1201	-0.001	-0.10
38.	RL-99C	1201	1205	-0.001	-0.10
39.	RL-99C	1205	1210	-0.001	-0.10

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This report reviewed and approved by:

Richard A. Grondin

Richard Grondin, Laboratory Director

RL-99 Summary LOG

ROTARY by DAM:

0-335 FGT
- 0-15 intensely x xtal tuff
- 15-35 mod-STR. argillic alt. xtal tuff
- 35-70 xtal tuff
- 70-105 lt green xtal tuff

335-465 LLT - green bedded bud

CORE by KLK:

465-496 LLT green bedded bud
* 496-674.3 FGT - xtal (TMB?)
674.3-837 LLT green bedded bud
837-1205 LBT - FGT
1205-1242 Jurrassic - carb. shales