60001361

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-131-C
AUTHOR	C. Walck; K. Tullar; N. Brewer; J. Gaige
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 1078' handwritten notes 38p.

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	5/20/08
	Initials	Date
DB:	Mah	
	Initials	Date
SCANNED:		
	Initials	Date

Revised: 1/22/08

DRILL LOGS RL-131-C
ROSEBUD

60001361 40/0

60001361

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

DRILL LOG SUMMARY SHEET

PROJECT Rosebud

HOLE NUMBER RL-131C TOTAL DEPTH 1078' LOGGED BY RC KWT / CMW

Date started 10-30-90

Date completed 11-6-90

Initial bearing —

Initial inclination -90°

Elevation 5298.7

Collar coordinates:

N 2,203,960

E 482,601.9

Contractor: Coates

Drill Type: UDR 650

Hole Size: 4 3/4" hammer/RC to 300'; HQ to 681' NQ to 1078'

Drilling Conditions:

Footage: Wet / Dry

Comments: RC Ø-300'

hole whipped out; went to NQ

DOWN HOLE SURVEY INFORMATION

FROM	TO	SURVEY POINT	INCLI-NATION	BEARING	X (Northing)	Y (Easting)	Z (Elevation)
0	50		-90	—			
50	200	100	-89.5	N63W			
200	400	300	-89.5	S87W			
400	600	500	-90	—			
600	800	700	-90	—			
800	989	900	-89	S83E			
989	1078	1078	-89	N77E			

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

FINE-GRAINED TUFF
LITHIC LAPILLI TUFF

ARGILLIC
XX SILICIFICATION
OX OXIDIZED
XXXXXXX DRUZY QUARTZ
XC CHALCEDONIC QUARTZ
XK STOCKWORK QUARTZ
P P P PROPYLITIZATION
Ca CALCITE

DRILL HOLE RL-131

Page 1 of ____

LOGGED BY KNT

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	% WASH RECOV.
									mw wh to gry					0-30' Qcover	.020	<		
05									"						.002	<		
10									"						.001	.1		
15									"						.001	<		
20									"						.001	<		
25									"					30-300? lithic lapilli tuff overall lt gm, locally	.002			
30									lt gm orange					30-95 lithic lapilli tuff, orange to lt gm FGT frags, welded overall wk to v. wk limonitic wk argillic alt. to primary clay??	<			
35									orange						<			
40									lt gm orange						<			
45									lt gm wk orange						<			
50									"						.001	<		
55									lt + dk gm						.003	.120		
60									"						.003	<		
65									" + wk orange						.002	.14		
70									"						.001	<		
75									"						.001			
80									"						.001			
85									"						.003			
90									"						.003			
95									lt gm				+1%	oxidized reduced 9+3 sulfide veinlets 95-110 lithic lapillites	.001			
100																		

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

FINE-GRAINED TUFF
LITHIC LAPILLI TUFF

ARGILLIC
XX SILICIFICATION
OX OXIDIZED
XXXXXX DRUZY QUARTZ
XC CHALCEDONIC QUARTZ
XK STOCKWORK QUARTZ
P P P PROPYLITIZATION
Ca CALCITE

DRILL HOLE RL-131

Page 2 of ____

LOGGED BY KNT

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	% WASH RECOV.
	✓✓✓								ltgrn				>1%		.001	<		
105																		
	✓✓✓								"				"		.002			
10																		
	✓✓	Ox XX Ca							orange wk grn					110-120 ltorange, wk limonitic oxide zone	.001			
15																		
	✓✓	Ox XX Ca							"						.001			
20																		
	✓✓								ltgrn				>1%	120-300	.001	.10		
25																		
	✓✓														.002	<		
30																		
	✓✓														<			
35																		
	✓✓														<			
40																		
	✓✓								pink ltgrn						<	.25		
45																		
	✓✓								ltgrn						<	.21		
150																		
	✓✓														.001	<		
55																		
	✓✓														.003			
60																		
	✓✓														.003			
65																		
	✓✓														.002			
70																		
	✓✓														.001			
75																		
	✓✓														.001			
80																		
	✓✓														.001			
85																		
	✓✓														.003			
90																		
	✓✓														.003			
95																		
	✓✓														.001			
200																		

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

FINE-GRAINED TUFF
LITHIC LAPILLI TUFF

ARGILLIC
XX SILICIFICATION
OX OXIDIZED
XXXXXX DRUZY QUARTZ
XC CHALCEDONIC QUARTZ
XK STOCKWORK QUARTZ
P P P PROPYLITIZATION
Ca CALCITE

DRILL HOLE RL-131

Page 3 of ____

LOGGED BY KNT

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	% WASH RECOV.
	V V								gm				1-2%		.003	<		
205	V V														.004	<		
10	V V														.008	.12		
15	V V														.009	.17		
20	V V	+ x x							wht tsrgrn					220-235 sly silicified L.L.T	.004	.17		
25	V V	x x x							"						.006	<		
30	V V	x x x							"						.005	.21		
35	V V								smk gm						.005	.13		
40	V V														.006	.0018		
45	V V														.008	.18		
250	V V														.004	.18		
55	V V														.004	<		
60	V V														.001	.10		
65	V V														<	<		
70	V V														.001	<		
75	V V														.002	.14		
80	V V														.0310	.14		
85	V V														.001	<		
90	V V														.047	.13		
95	V V														.001	<		
300																		

HOLE # RL-131 LOGGED BY CMWalck DATE 12-6-90 PAGE 1 OF ___

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	ALTER.
300	150	None	None	None		W-M arg
	101					
310	>100					Mod Arg
320	100		Wk vnlts	Qtz + py & DrQ		Mod arg; WK arg
330	100		VEIN Wk vnlts	DRQ Qtz + py & DrQ		W-M arg
340	100		Mod to M-S vnlts	DrQ ± Mc & bladed Qtz		Wk arg + Wk silic?
350	100					
360	100		W to W-M vnlts	DrQ + Mc ± Kaol		Wk arg
370						

DESCRIPTION

0-300 Reverse Circ

300.0 - 521 Chocolate lithic lapilli tuff/tuffbxa & fgt

300 ~ 418 Tuff breccia; Dull, lt. to med. grey-green to blue green color. Clasts range from < 1/4" to > 6" in size, unsorted. Appear to be ~ same comp. as matrix, barely matrix supported. Clasts have speckled - tiny dk green mafics, or sometimes ¿flow?- banded texture. Clasts slightly lighter green / grey than matrix. Clast outlines are often fuzzy, not sharply distinguished from matrix

300 ~ 321: Weak to locally mod argillized (locally can scratch w/ fingernail.

321 ~ 342: Weakly arg w/ wk Dr Qtz & qtz + py vnlts
6" zone of Dr Q at 332.5

342 ~ 361: Wk arg & possibly locally wk silic w/ mod-abt Drusy qtz ± Mc & some bladed qtz vugs & veins
2-4 vnlts/ft, 1/2" - 1 1/2" wide.

361 ~ 388: Wk arg, W to W-M vnlts; Dr. Qtz + Mc ± White Kaol
(1 vnlt/ft; 1/4" - 3/4" wide)

ASSAYS

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

HOLE # RL-131 LOGGED BY _____ DATE _____ PAGE 2 OF ____

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	ALTER.
380	100	None	W to W-M vnlts	Dr Q + mc ± Kaol		Wk arg
390	100		V. wk vnlts	minor py + qtz + Dr Q		
400	100					
410	100					
420	99			green Kaol, minor py + qtz ± gr Kaol		W-M Arg, Mod Bleach ⊥ Wk bleach
430	100					
440						

DESCRIPTION

300 - 521 cont

300 ~ 418 cont: Tuff bxa

388 ~ 418: wk arg; v. wk py + qtz vnts, rare Dr. Q vugs

418-425: light blue-green fine grained tuff w/ ~ 3-4% tiny dissem py (<1mm) & possibly replacing mafic phenos? W-M arg - barely scratch w/ fingernail

425 - 451: wkly bleached to light pink-grey fgt w/ 3-4% tiny dissem py (<1mm) & possibly some biotite? V. wk vnlts (<1-2/ft, <1/16" - 1/8" wide) mostly green duck butter kaol, minor py + qtz ± green kaol.

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
417-422				.003	<.10
422-427				.005	<
427-432				.002	<

HOLE # RL-131 LOGGED BY CMW DATE _____ PAGE 3 OF ___

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	ALTER.
	100	None	V wk vnlts	green kaol, minor py + qtz ± gr kaol		wk bleach arg?
450	100		wk vnlts			
460	100		w-m wk	(+ brQ)		
470	100		w-m	(+ brQ)		
	100			(+ brQ)		
480	88		wk crackle bx'd	qtz + py + kaol		
490	>100		V wk vnlts	py + qtz		mod arg, mod bleach
500	100			green kaol + py + qtz		w-m bleach, wk arg?
510						

DESCRIPTION

300 - 521 cont

454 - 484: med. flesh/pink-tan color fine grained tuff, wk to locally w-m vnlts 2-5/ft, 1/16" - 1/8" wide usually: Green kaol ± qtz, py + qtz + white kaol, & locally w/ broken up areas w/ drusy qtz up to 2" wide (462', 469', 476)

484 - 487: med flesh fgt, wk crackle bx'd, 1/16 - 1/8" vnlts/matrix of qtz + py + kaol.

487 - 497: Mod arg. lt-med green fgt, w-m fractured. Core fairly broken-up, rubbly at 476. V. wk vnlts, py + qtz

497 - 510: Lt green fgt, w/ ~ 1-2% tiny diss. py V wk vnlts green kaol & py + qtz ± kaol

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
452-457				.002	<.10
457-462				.002	<
462-467				.002	<
467-470.5				.001	<
470.5-475				.002	<
475-480				.003	.18
480-485				.004	.16
485-490				.004	<
490-495				.003	<
495-500				.002	<

HOLE # RC-131 LOGGED BY CMW DATE _____ PAGE 4 OF ____

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
520	100	None	V wk vnlts	Qtz+ Kaol		w-m arg, bleach	300-521 cont Choc. fgt, llt & tuffbxa cont 510-521: Tuff breccia; Clasts comprise ~65-75%, range from 2mm-10cm, unsorted. Clasts lt-med green w/ tiny dk specks & dk flesh w/ dk specks & 1-2mm white phenos. Matrix greenish-flesh & harder than clasts. Overall w-m arg, 507-508 m-s arg. v wk. qtz+kaol vnlts.						
530	100	? possible at ~60° to c.a. ?	wk vnlts	Qtz+ py		m-s arg w-m arg wk bleach & arg m-s bleach	521-546.7 [is this BUD or Choc?] Med blue green (to 526) bleaching & to lt green color 'fine' lithic lapilli tuff; generally coarse sand-size clasts (1-4mm avg) Seems to exhibit crude bedding? at ~60° to c.a. & 526 down is pale blue-green color, fairly hard, grain outlines fuzzy. wk vnlts <1-2 /ft, 1/8"-1/4", qtz+py.						
540	100						Contact at ~ 40° to c.a						
550	100	? poss. at 55° to c.a.	None	None		fairly fresh ?	546.5-651 ¿BUD? 546.5-559: Med-dk blue green fine-med size clast, lithic lapilli tuff, Matrix supp. Clast outlines indistinct, clasts comprise ~50-60%, 2mm-1cm avg size. No veining. Possibly crude bedding at ~55° to c.a.						
560	100	Can't tell if bedding	wk vnlts	Qtz+ Kaol, green Kaol			559-571: Same as above, but w/ wk (1 in 2 ft) 1/2"-1" wide white qtz ± Kaol veins & minor green Kaol veinlets (1/4" wide)						
570	100		None	None		wk bleach	571 ~ 590 Weakly bleached version of above, Med green clasts 2mm-1cm comprise ~40-60%, in lt green matrix. Fairly hard. No veining except for 1/4" vnlt at 581 w/ qtz, barite □ & stibnite ↓ & minor (1/ft, 1/8") qtz+Mc ± Kaol from 581-583.						
580													

HOLE # RL-131 LOGGED BY CMW DATE _____ PAGE 5 OF ____

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	ALTER.
	88	None or hard to tell	Minor vnlts	Minor Qtz+Mc ± Kaol		wk bleach
			None	None		
590	>100		W-m vnlts & vugs	Qtz + py, Dr Q + barite + stibn		wk silic
600	98		V. wk vnlts/vugs	barite ± Kaol ± py		
610	100		Wk vnlts	Dr Q + Mc ± barite ± Kaol		wk to W-m silic
620	100		Wk vnlts/vugs	barite ± Kaol ± Dr Qtz		wk arg
630	92		Wk to W-m vnlts/vugs	Dr Q + bar ± py/Mc, + Kaol		wk silic
	90					
640	100		Wk vugs	Dr Q + bar		W-m silic
650	100			Dr Q + bar + Kaol		Mod silic

DESCRIPTION

546.5 – 651 cont

590 ~ 602: Weakly silicified lt & med blue-green lblt Clasts 2mm – 1cm avg, comprise 30–50%, Indistinct outlines.
W-m vnlts (3 – 5 /ft, 1/16" – 1/8" wide) w/ qtz + py ± Kaol & vugs w/ Drusy qtz + barite □ (1/4" – 1/2" xtls) & stibnite ± Mc
Broken up / rubbly & more clayey at 597 – 597.5, 599 – 599.3

602 – 611.5: Same as above, but w/ very wk vnlts/vugs (< 1/ft, 1/2" wide, w/ barite xtls □ ± Kaol ± py

611.5 – 619.5: Wk to W-m silicification; (same lithology as above) Wk vnlts (1-4 /ft, 1/16" – 1/4" wide) drusy qtz + Mc ± barite □ ± Kaol.

619.5 – 629: Coarser, more clast-rich lithic lapilli tuff. 50–70% Clasts, med grey & lt & med-dk blue green, 3mm – >3cm. Prob overall wk argillic. Wk vnlts / vugs; barite ± Kaol ± drusy qtz.

629 – 638.5 Wk. silic med blue-green lithic lapilli tuff. 30 – 40% clasts, avg 3mm – 1cm but w/ a few large pieces. Matrix supp.; – green-grey color. W to W-m vnlts / vugs, 1-2 1/8" Kaol vnlts / ft, 1 1/4" – 1" Dr Qtz + barite ± py/Mc vug / ft.

638.5 – 651: W-m silic lithic lap. tuff, 30% blue green & dk flesh 3mm – 1cm clasts in lt-md blue-grey matrix. fairly hard. Wk vugs (1-2 /ft, 1/8" – 1/4" wide) Dr Q ± barite ± Kaol. Silic increases ↓

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
608.5-613.5				.002	<.10
613.5-618.5				.003	<
618.5-623.5				.003	.33
623.5-629				.003	.26
629-633				.003	.11
633-636				.003	<
636-642				.003	.18
642-647				.002	.10
647-652				.002	.17

HOLE # RL-131 LOGGED BY _____ DATE _____ PAGE 6 OF ___

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	ALTER.
		None	W-M to Mod vnlts	qtz, qtz+ Kaol, dr Q + Py, barite		Mod Silic
660	100		Mod vnlts			
	100		W-M vnlts			
670			fault zone/ bx'd	qtz ± barite ± Kaol		
	88			qtz+ Kaol		Str Silic
680	92			No veinlts		
	81					
690	100			Rubble		
	100			Silica + Sulf vein/ matrix		
700						
	100		Veins or crackle fracts (Str veining)	grey qtz ± Py ± Kaol, minor Dr Q		Mod Silic
710						
	96		veins or fracts (m-S	grey qtz ± py ± Kaol		
722						

DESCRIPTION

4" healed bx'd zone, mix ↑ & ↓ at contact at 651'

Reduce to N core at 681'

651 - 666.5 (Think 'bxa' texture is primary) Flesh & gray Lithic Lapilli tuff: 30-40% angular lt green-grey & tan clasts; 1 mm - 3 cm avg size, but some >8 cm clasts; floating in lt-med flesh/pinkish/orangish tan background; all mod. silicified. Many clasts have abt (5-10%) tiny dark specks & some clots Py. W-M to mod veined 4-10/ft, 1/8"-1/4" clear qtz, qtz + kaol., dr qtz + py/mc & few vugs w/ barite. 659-661 - more cracked up to w/c crackle bx'd w/ 1/8" qtz vnlts. (Could this be Tmb??)

666.5 - 702 fault zone

666.5-674: Bx'd lt flesh & grey w/ tiny dk specks & some py clots tuff. Clast supported; 90-95% clasts. All mod silicified. Matrix/veins is med grey/clear qtz ± barite ± kaol

674-678 Strongly silicified (harder than metal) med-dk brown-grey angular clasts 1/2"-2", 80-90% clasts. Matrix is lt grey green qtz ± duckbutter kaol. or white qtz + kaol.

678-690: Str. silified (harder than metal) med grey green healed bxa: Matrix (silica) supported, w/ 20-45% 3mm-2cm silic clasts & undistinct boundaries. No veining. Reduced to N at 681'.

690-691: Silic bx'a rubble

691-702: Matrix supported bxa grading down to str. crackle bx'a. Lt pink-tan/flesh f.gr. tuff angular silicified clasts, 80-90%. Matrix/veins are med-dk grey silica + sulfide. All str. silic.

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
652-657				.003	.35
657-662				.002	.14
662-667		662-663 missed in sampling		.003	1.38
667-672				.011	2.00
672-677				.006	2.31
677-681				.015	5.07
681-688				.004	<.10
688-692				.002	<
692-697				.001	<
697-702				.001	<
702-707				.001	<
707-712				.009	<
712-717				.005	<
717-722				.002	<

HOLE # RL-131 LOGGED BY _____ DATE _____ PAGE 7 OF ___

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	ALTER.
	107	None	Veins on fracts (m-S) ⊥ w to w-m thin vnlts	Grey qtz ± py ± Kaol		mod Silic
730	84		fault zone	Kaol + py ⊥ py + qtz		m-S arg mod silic
740	100		mod veined	py + Kaol ⊥ py + qtz ± Kaol ⊥ qtz + py		M Arg wk silic
750	100		w-m vnlts	Qtz + py		m-S arg wk silic
760	92		m-S vnlts	Kaol + mc, Qtz + py		
			w-m vnlts rubble	Qtz + py ⊥ py + qtz ± Kaol		wk silic ? & bleach
770	100		m-Str frac'd/ crackled w/ m-S vnlts			
780	113					
790						

DESCRIPTION

702-731.5 Pink-tan or Pink-grey fine-grained tuff.

702 ~ 717: Strongly fractured / wk crackle bx'd light pink-tan fgt., w/ 1/16" – 1/8" med grey qtz ± py ± kaol vnlts on fractures. (10-15/ft). Minor drusy qtz. Prob Mod Silic

717-727: mottled / banded pale green-grey and med flesh. M-Str fractured / wk crackle bx'd w/ 1/32" – 1/16" grey qtz ± py ± kaol vnlts on fractures (10-15/ft)

727-731.5: lt. pink-grey-tan fgt, mod silic., w/ W to w-m vnlts (3-4/ft, 1/16") qtz + py ± kaol.

731.5-740 fault zone

731.5-734.5: M-Str argillized (soft, clayey) tuff, speckled light green w/ 1mm ○ py & kaol speckles. w-m veined kaol + py 3/ft 1/8" wide.

734.5-739.5: med pink-grey tuff (as above) mod fract'd veined w/ thin 1/32" py + qtz on fracts. Mod silicified.

739.5-740: 6" of w-m arg rubble.

740-753 Med grey porphyritic fgt. (Looks like Tmb)

Groundmass med grey, contains ~ 2% 1/4" □ plag or sanidine laths & ~ 1-2% tiny dark specks - prob now py.

740-742: w-m veined py + kaol 4-2 1/8"/ft

742-744: wk bx'd, wk silic., somewhat rubbly, wk kaol + py vnlts

744-748: mod veined 6-10. 1/16" – 1/8"/ft py + qtz ± kaol

748-750: wk bx'd, qtz + py vnlts/matrix

750-751: M-Str argillized (soft & clayey)

751-753: mod fract'd w/ thin qtz vnlts (1/32"); 4" bx'd zone at contact

753-764.7 lt-med peach tan & pink-grey fgt w/ ~ 3% very tiny dk specks (dissem py?)

753-758 & 763-764.7: w-m vnlts (4-7/ft, 1/32" – 1/8") py + qtz

758-763: m-Str to Str vnlts / wk crackle bx'd; kaol + mc, lessor qtz + py

764.7-765 3" of rubble of ↓

765 ~ 912 pale green fgt, generally mod to locally str broken up

Could this be Dozer? or is it LBT?? (Favor LBT)

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
722-727				.004	<.10
727-732				.005	<
732-740				.008	<
740-745				.007	<
745-750				.015	<
750-755				.003	<
755-760				.009	<
760-765				.026	<
765-770				1.67	1.37
770-775				.017	<
775-780				.038	.13
780-785				.005	<
785-790				.013	<

HOLE # RL-131 LOGGED BY C M Walck DATE 12-90 PAGE 8 OF ___

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	ALTER.
	95	None	m-s fract'd w/ m-s vnlts	py + qtz ± kaol		wk silic ? + bleach
	100		w-m vnlts			
800						
	100					
810			mod vnlts + fracts	Qtz + py / Mc ± kaol + dk green + py + qtz		wk silic ?
	98					
820						
	100					
830						
	100		w-m to m vnlts/ fracts	kaol + py		mod arg + bleach
840				Qtz + py		wk silic ?
	100			kaol + py		mod arg + bleach
	100		mod fracts/ vnlts	Qtz + py ± kaol		wk silic?
850	92		w-m to mod fracts/ vnlts	green kaol		mod arg + bleach
	75			White kaol + py ± qtz		
			Rubbly			str arg
860						

DESCRIPTION

765 ~ 912 cont Dozer or LBT?

765 ~ 795.5: Pale green fgt, m-str fractured / wk to w-m crackle bx'd w/ 1/32" - 1/8" vnlts along fract's; py + qtz ± kaol. 8- > 15 / ft. Core is fairly hard - easily scratched by metal but not by plastic ruler.
Rubbly / broken up zones, prob wk arg. at 773.5-774, 776-776.5, 779-780

795.5 - 809: less veined / fract'd version of above. 2-6 thin vnlts/ft

809 - 833: med pink-tan to pink-gray fgt w/ ~ 1-2% tiny dissem py specks. Fairly hard - barely scratched by metal
Mod amnt very thin fracts 5-10 / ft, 1/64" - 1/16", w/ py + qtz, or dk green?, also ~ 3-4 / ft 1/8" - 1/4" vnlts qtz + py / Mc ± kaol. Some of dissem py is cubes.
810-810 is mod crackle bx'd w/ 1/8" vnlts dk green + py + qtz on fracts

833 - 837: Bleached to pale green fgt w/ tiny dk specks & py?
Mod argillized - can scratch w/ fingernail.
Mod fractured w/ thin vnlts py + kaol.

837-842: same as 809-833 w/ wk-mod vnlts / fracts

842-844: same as 833-837

844-847.5: Med pink-grey-tan somewhat banded fgt, fairly hard.
Mod fract'd w/ 1/16" vnlts py + qtz ± kaol.

847.5 ~ 865: fgt bleached to dull white / pale green.
Mod argillized - scratch w/ fingernail, locally str arg - clayey rubble. (856-862) Mod fractured w/ abt very thin vnlts: green kaol, white kaol + py ± qtz.

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
790-795				.018	<.10
795-802				.021	<
802-807				.066	<
807-812				.005	<
812-817				.001	<
817-822				.004	<
822-827				.005	<
827-832				.001	<
832-837				.004	<
837-842				.002	<
842-848				.002	<
848-852				.038	<
852-857				.006	.27
857-862				.005	<

HOLE # RL-131 LOGGED BY CMW DATE 12-90 PAGE 9 OF ___

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	ALTER.
	100	None	W-M to M fract'd vnlts	Kaol + py + qtz		Mod Arg/ Bleach
			W to W-M fract'd vnlts	py + qtz ± Kaol		Wk silic?
870	97			+ Dr Q + mc		
			Wk vnlts	Kaol + py		Mod arg/ bleach
880	77		Wk (thin) vnlts	py + Qtz		Wk silic ?
890	105		Wk to W-M vnlts			
900	98		Silic healed bx'd	Mod py + qtz vnlts		W-M silic? mod bleach
910	102					
920	45		Rubble - fault zone?	Qtz + py, green Kaol		
930	99		Wk vnlts, mod thin fracts	qtz + py ± Kaol, dk gr + py, minor calc		Wk silic? & bleach

DESCRIPTION

765~912 cont. LBT or Dozer? (Favor LBT)

865 - 877.5 ; same as 844 - 847.5 ; Peach-tan & lt green somewhat banded fgt; hard; W-M fract'd w/ very thin vnlts py + qtz ± Kaol. Some drusy qtz + mc 1/8" vnlts 876 - 877.5.

877.5 - 882 : pale green - dull white mod arg fgt w/ 2-3% tiny dissem specks py. (Scratch w/ fingernail) Wk vnlts Kaol + py 2-4/ft, 1/16" wide.

882 - 898.5 : banded med pink-tan & lt grey fgt w/ 1-3% tiny dissem py. Fairly hard. Wk to locally W-M vnlts (1/16" - 1/8" wide, 3 - 6/ft) py + qtz.

898.5 - 912 Wk silicified? Healed bx'd fgt (above)
Varies from crackle - bx'd to lt grey - dull white clasts (1-8mm) (30-50%) floating in grey siliceous matrix
All w/ 1-3% tiny specks dissem py.
Mod vnlts py + qtz 1/16" - 1/8" wide, 3-15/ft.

912 - 922 ¿ fault zone ?
Core totally broken up to <1/2" - 2" size pieces - rubbly. The pieces are bleached to white, w-m silicified, & str. fractured to bx'd, w/ qtz + py & green Kaol on fract's/veins.

922 - 1019.5 fine grained even textured tuff - probably Dozer
922 - 943 Pale green - grey fgt. Hard. Breaks sharply/ brittle.... Abt. very fine fractures < 1/16" filled w/ qtz or calcite

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
862-867				.007	<.10
867-872				.001	<
872-877				.004	<
877-882				.004	<
882-887				.002	<
887-892				.002	<
892-897				.005	<
897-901.5				.097	.12
901.5-904.5				.002	.21
904.5-909.5				.001	<
909.5-912				.002	.21
912-920.5				.005	.18
920.5-925.5				.001	<
925.5-930.5				.001	.11

HOLE # RL-131 LOGGED BY _____ DATE _____ PAGE 10 OF ____

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	ALTER.
	102	None	Wk vnlts, mod thin fract's	Qtz + py ± Kaol, Dk green + py, minor calc		Wk silic? + bleach
940	103		Mod vnlts, wk fract	Calc, minor dk green + py		
950	102		Bx'd	Wk calc, dk gr + py		
			Str crackle bx'd	dk green + calc + py ± Kaol		
960	97		Minor vnlts	Kaol + py		Mod bleach
970	100			dk red FeOx + dk green ± py		Wk silic ?
980	98		W-m vnlts			
990	100		Wk vnlts, mod fract	Calc ± Kaol ± py		Wk silic? + mod bleach
1000						

DESCRIPTION

922-1019.5 cont. Dozer? fgt

922-943 cont.: Also wk vnlts 2-3/ft, 1/8" wide, qtz + py ± Kaol + dk green + py. Hard - wk silic?

943-951: pale green fgt, weakly fractured & mod veined (4-8/ft, 1/4"-1/8" wide) mostly calcite - causes bx'n along veins, & minor thinner vnlts of dk. green + py.

951-966: Crackle bx'd to rotated clast matrix supp. bx'd. lt- to lt-med grey-green color, hard - wk silic?

951-955: 50-60% clasts 1/4"-1"; in darker grey-green siliceous matrix. Wk vnlts: calcite, dk green + py

955-962: Str fractured / crackle bx'd w/ 1/32" calc vnlts on fract's, w/ some dk green + py ± Kaol.

963-966: Str crackle bx'd, 90-95% clasts w/ dk green ± calc + py on fract's / vein matrix.

966-973: fgt bleached to dull white, w-m fractured - very thin fractures w/ pink tint along them (FeOx?) Minor Kaol + py vnlts (< 1/ft, 1/4" wide)

973-997: Bx'd (healed) lt-med blue-green-grey fgt, 60-90% clasts, varies from clast to matrix supported.

Matrix just slightly darker than clasts. All fairly hard. Generally very wk veining. 984-987, 989-990, 993-994: dk red FeOx + dk green? ± py vnlts All fairly hard - wk silic?

997-1019.5: Mod bleached to pale green, but still hard, mod fract'd f.g.t. Green Kaol ± py on thin fract's. Weak calcite ± white Kaol ± py vnlts (2/ft, 1/8"-1/4")

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
930.5-935.5				<.001	.16
935.5-940.5				<.001	.11
940.5-945.5				<	.10
945.5-950.5				<	<
950.5-955.5				<	.14
955.5-960.5				<	<
960.5-965.5				<	<
965.5-971				.021	.24
971-976				<	.15
976-981				<	.12
981-986				<	<
986-991.5				<	<
991.5-997				<	<
997-1002				<	<

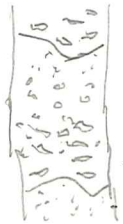
HOLE # RL-131 LOGGED BY _____ DATE _____ PAGE 11 OF ___

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	ALTER.
	100	None	wk veins, mod fract	calc ± kaol ± py		Mod bleach
1010	93					
1020	102	Bedded at various ∠'s to core axis but gen at ~70°	None	None		
1030	100					
1040	104					
1050	85	None	minor stringers	py + qtz		
	75		rubble	None		
1060	102		None	None		Graphitic? Baked
			minor veins	minor qtz		Baked
1070	100	fissile 5-25°				Baked

DESCRIPTION

1019.5 ~ 1050 'Transitional sediments'; graded bedding epiclastics; sandstone & siltstone. Generally a lt-med grey-green color. Prob has a tuffaceous component.

1019.5 ~ 1043: Graded bedding - possibly reverse graded?
- contacts irregular ~~ Bedded at ~ 70° to c.a.



Mostly grey-green color, but some grains of black slate

1043 - 1050: finer grained / clayey med-dk grey seds, 'wavy' text, just grades down into shales. Minor py + qtz stringers.

1050-1078 Black Tr/Jr shales.

1050-1052.5: fairly hard black shale/slate, minor qtz + py stringers

1052.5 - 1057: rubbly / broken up mix of soft carbonaceous shales & hard white ¿ dike? material.

1057 - 1062: Soft carbonaceous, slightly graphitic black shale

1062 - 1064: lt-med grey f.gr. siliceous ¿ dike?

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
1002-1007				.001	<.10
1007-1012				.003	<
1012-1017				.001	<
1017-1022				<.001	<
1022-1027				<	<
1027-1032				<	<
1032-1037				<	<
1037-1042				<	<
1042-1047				<	<
1047-1052				.007	<
1052-1058				.002	.20
1058-1063				<	.33
1063-1068				<	<

HOLE # RL-131 LOGGED BY CMW DATE 12-90 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
1078		fissile at 5-25° to c.a	wk vnlts	Qtz		Baked/ Graphitic	1050-1078 cont 1064-1066.5: Shiny black shales - baked/graphitic w/ minor qtz 1/4" vnlts. 1066.5-1067.5: lt-med green-grey siliceous f.gr. dike w/ w-m qtz vnlts. 1067.5-1076: Shiny black shales - baked/graphitic, locally fissile 5-25° to c.a. Few qtz veins 1/2"-4" wide 1076-1077: dike? 1077-1078: Shiny black shale w/ wk qtz vnlts	1068-1073				.001	.15
								1073-1078				<.001	.14

RL-131 0-300' RC

Sample Int	% Rec	Sample	Lithology
300-302	3'		(300-±426) Bud Bx upper
302-311.5	9.6/9.5		lt gm to pend lithic
311.5-321.5	100%+		lapilli tuff w/local
321.5-331.5	100%		minor drusy silica vn.
331.5-342	100%		<6"
342-352	100%		
352-362	100		
362-372	100		
372-382	100		
382-392	100		
392-402	100		
402-412	100		
412-422	100%		

RL-131

Sample Int.	% Rec.		Sample	Lithology
~~(6.4)~~ - 422	~~(±6.4)~~			±426 — 546.7
422 - 432	99%		417 - 422	lt grn to wht/peach, blk
432 - 442	100%		Split 422 - 427	fGT w/ local, minor wk
442 - 452	100%		427 - 432	qtz sulfide uns + minor
452 - 462	100%			qtz barite veins w/
462 - 470.5	8.5/8.5 = 100%			cubic barite to 1/2"
470.5 - ~~480~~ 471.5	100%		452 - 457	+ minor lithic lapilli
471.5 - 480	100%		457 - 462	tuff interbeds
480 - 490	88%		462 - 467	ie < 10' thick
490 - 500	100%+		467 - 470.5	
500 - 510	100%	S	470.5 - 475	contact ≯ 40°
510 - 520	100%	P	475 - 480	546.7 - 652
520 - 530.5	100%	L	480 - 485	Bud Bx
530.5 - 540.5	100%	I	485 - 490	sage grn to light green,
540.5 - 550.5	100%	T	490 - 495	lithic lapilli tuff
550.5 - 561	100%+		495 - 500	local, minor stibnite, barite,
561 - 571	100%			silica uns
571 - 581	100%			608.5 - 629
581 - 588.5	6.4/7.5			
588.5 - 598.5	100%+	S	608.5 - 613.5	stockwk drzy silica/barite
598.5 - 608.5	98%	P	613.5 - 618.5	veining
608.5 - 618.5	100%	L	618.5 - 623.5	
618.5 - 629	100%	I	623.5 - 629	629 - ±652
629 - 633	3.7/4	T		sty silica flood
633 - 636	2.7/3		629 - 633	Bud Bx (lithic
636 - 642	100%	C	633 - 636	lapilli tuff)
642 - 652	100	U	636 - 642	local qtz veggs +
652 - 662	100	T	642 - 647	"duck butter" clay
662 - 672	100		647 - 652	
672 - (3.8) 677	4/4 | 5 = 98%		652 - 657	Contact @ ±652??
NQ @ 681 677 - 681	3.7/4		657 - 662	Bx FGT
681 - 688	5.7/7		662 - 667	±652 — ±712
688 - 692	100%+		667 - 672	FGT fragg — sty bx
692 - 702	100		672 - 677 ✓	silica flooded, matrix
702 - 712	100		677 - 681	supported, minor sulf.
712 - 722	96%		681 - 688	
722 - 732	107%		688 - 692	712 - 1022
732 - 740	6.7/8		692 - 697	wht, blk, FGT
740 - 750	100%		697 - 702	w/local drzy vegs + bx

RL-131

750-760	100%
760-770	92%
770-780	100%
780-790	113%
790-792	1.9/2
792-(5.8) 80?	100%
802-812	100%
812-822	98%
822-832	100
832-842	100
842-845.5	100%
845.5-848	~~2.6/~~ 100%
848-852	3.7/4
852-862	75%
862-872	100%
872-882	97%
882-(1.8) 892	77%
892-901.5	105%
901.5-904.5	98%
904.5-912	102%
912-920.5	3.8'/8.5'
920.5-930.5	99%
930.5-940.5	102%
940.5-950.5	103%
950.5-960.5	102%
960.5-971	10.2/10.5'
971-981	100%
981-991.5	98%
991.5-1002	100%
1002-1012	100%
1012-1022	93%
1022-1032	102%
1032-1042	100%
1042-1052	104%
1052-1054	1.7'/2'
1054-1058	3'/4'
1058-1068	102%
1068-1078	100%

CUT

702-707
707-712
712-717
717-722
722-727
727-732
732-740
740-745
745-750
750-755
755-760
760-765
765-770
770-775
775-780
780-785
785-790
790-795
795-802 ✓

SPLIT

802-807
807-812
812-817
817-822
822-827
827-832
832-837
837-842
842-848
848-852
852-857
857-862
862-867
867-872
872-877
877-882
882-887

1022 — ±1052
Hgm, transitional sediments
coarse sandstone to siltstone

±1052 — 1078 TD
Blk carbonaceous shales, minor Si U-ing

• 887-892
892-897
897-901.5
901.5-904.5
904.5-909.5
909.5-912
912-920.5
920.5-925.5
925.5-930.5
930.5-935.5
935.5-940.5
940.5-945.5
945.5-950.5
950.5-955.5
955.5-960.5
960.5-965.5
965.5-971

RL - 131 continued

Sampling

971 - 976
976 - 981
981 - 986
986 - 991.5
991.5 - 997
997 - 1002
1002 - 1007
1007 - 1012
1012 - 1017
1017 - 1022
1022 - 1027
1027 - 1032
1032 - 1037
1037 - 1042
1042 - 1047
1047 - 1052
1052 - 1058
1058 - 1063
1063 - 1068
1068 - 1073
1073 - 1078 TD.

C

NEVADA GSI, INC.

GEOCHEMICAL ANALYSIS REPORT

RL-131C
0-300

Client: Mr. Nate Brewer

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

Job #: LOA8755A
Samples: 64
Project: URBD
Product: FA2
P.O. #:

This report has been reviewed and approved by:

Jerry Gaige, Production Manager

11-7-90
Date

NEVADA GSI, INC.

GEOCHEMICAL ANALYSIS REPORT

Job No.: LOA8755A

No.	Sample Id			Au opt	Ag opt
1	RL-131	0	5	0.0200	-0.1000
2	P-5			0.0340	0.2000
3	RL-131	5	10	0.0020	-0.1000
4	RL-131	10	15	0.0010	0.1000
5	RL-131	15	20	0.0010	-0.1000
6	RL-131	20	25	0.0010	-0.1000
7	RL-131	25	30	0.0020	-0.1000
8	RL-131	30	35	-0.0010	-0.1000
9	RL-131	35	40	-0.0010	-0.1000
10	RL-131	40	45	-0.0010	-0.1000
11	RL-131	45	50	-0.0010	-0.1000
12	RL-131	50	55	0.0010	-0.1000
13	RL-131	55	60	0.0030	0.1200
14	RL-131	60	65	0.0030	-0.1000
15	RL-131	65	70	0.0020	0.1400
16	RL-131	70	75	0.0010	-0.1000
17	RL-131	75	80	0.0010	-0.1000
18	RL-131	80	85	0.0010	-0.1000
19	RL-131	85	90	0.0030	-0.1000
20	RL-131	90	95	0.0030	-0.1000
21	RL-131	95	100	0.0010	-0.1000
22	P-6			-0.0010	-0.1000
23	RL-131	100	105	0.0010	-0.1000
24	RL-131	105	110	0.0020	-0.1000
25	RL-131	110	115	0.0030	-0.1000
26	RL-131	115	120	0.0030	-0.1000
27	RL-131	120	125	0.0020	0.1000
28	RL-131	125	130	0.0010	-0.1000
29	RL-131	130	135	0.0010	-0.1000
30	RL-131	135	140	0.0010	-0.1000
31	RL-131	140	145	0.0020	0.2500
32	RL-131	145	150	0.0010	0.2100
33	RL-131	150	155	0.0010	-0.1000
34	RL-131	155	160	0.0010	-0.1000
35	RL-131	160	165	-0.0010	-0.1000
36	RL-131	165	170	0.0020	-0.1000
37	RL-131	170	175	-0.0010	-0.1000
38	RL-131	175	180	0.0010	-0.1000
39	RL-131	180	185	0.0040	-0.1000
40	RL-131	185	190	0.0020	-0.1000
41	RL-131	190	195	0.0030	-0.1000
42	P-7			-0.0010	-0.1000
43	RL-131	195	200	0.0020	-0.1000
44	RL-131	200	205	0.0030	-0.1000
45	RL-131	205	210	0.0040	-0.1000
46	RL-131	210	215	0.0080	0.1200
47	RL-131	215	220	0.0090	0.1700
48	RL-131	220	225	0.0040	0.1700
49	RL-131	225	230	0.0060	-0.1000
50	RL-131	230	235	0.0050	0.2100

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

NEVADA GSI, INC.

GEOCHEMICAL ANALYSIS REPORT

Job No.: LOA8755A

No.	Sample Id			Au opt	Ag opt
51	RL-131	235	240	0.0050	0.1300
52	RL-131	240	245	0.0060	0.0018
53	RL-131	245	250	0.0080	0.1800
54	RL-131	250	255	0.0040	0.1800
55	RL-131	255	260	0.0040	-0.1000
56	RL-131	260	265	0.0010	0.1000
57	RL-131	265	270	-0.0010	-0.1000
58	RL-131	270	275	0.0010	-0.1000
59	RL-131	275	280	0.0020	0.1400
60	RL-131	280	285	0.0310	0.1400
61	RL-131	285	290	0.0010	-0.1000
62	P-8			0.0930	0.1000
63	RL-131	290	295	0.0470	0.1300
64	RL-131	295	300	0.0010	-0.1000

Entered AS: 0.18

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C

NEVADA GSI, INC.

GEOCHEMICAL ANALYSIS REPORT

RL-131C
~~672~~ - 727
300

Client: Mr. Nate Brewer

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

Job #: LOAS8775
Samples: 58
Project: URBD
Product: FA2/AA
P.O. #:

This report has been reviewed and approved by:

Jerry Gaige, Production Manager

11-12-90
Date

NEVADA GSI, INC.

GEOCHEMICAL ANALYSIS REPORT

Job No.: LOAS8775

No.	Sample Id			Au opt	Ag opt
1	RL-127	300	305	0.0020	-0.1000
2	P-26			0.0320	0.1600
3	RL-127	305	310	0.0050	-0.1000
4	RL-127	310	315	0.0020	-0.1000
5	RL-127	315	320	0.0010	-0.1000
6	RL-127	320	325	0.0020	-0.1000
7	RL-127	325	330	0.0010	-0.1000
8	RL-127	330	335	0.0010	-0.1000
9	RL-127	335	340	0.0010	-0.1000
10	RL-127	340	345	0.0010	-0.1000
11	RL-127	345	350	0.0010	-0.1000
12	RL-127	350	355	0.0030	-0.1000
13	RL-127	355	360	0.0020	-0.1000
14	RL-127	360	365	0.0030	-0.1000
15	RL-127	365	370	0.0090	-0.1000
16	RL-127	370	375	0.0030	-0.1000
17	RL-127	375	380	0.0010	-0.1000
18	RL-127	380	385	0.0010	-0.1000
19	RL-131	417	422	0.0030	-0.1000
20	RL-131	422	427	0.0050	0.2100
21	RL-131	427	432	0.0020	0.2200
22	P-27			0.0540	-0.1000
23	RL-131	452	457	0.0020	-0.1000
24	RL-131	457	462	0.0020	-0.1000
25	RL-131	462	467	0.0020	-0.1000
26	RL-131	467	470.5	0.0010	-0.1000
27	RL-131	470.5	475	0.0020	-0.1000
28	RL-131	475	480	0.0030	0.1800
29	RL-131	480	485	0.0040	0.1600
30	RL-131	485	490	0.0040	-0.1000
31	RL-131	490	495	0.0030	-0.1000
32	RL-131	495	500	0.0020	-0.1000
33	RL-131	608.5	613.5	0.0020	-0.1000
34	RL-131	613.5	618.5	0.0030	-0.1000
35	RL-131	618.5	623.5	0.0030	0.3300
36	RL-131	623.5	629	0.0030	0.2600
37	RL-131	629	633	0.0030	0.1100
38	RL-131	633	636	0.0030	-0.1000
39	RL-131	638	642	0.0030	0.1800
40	RL-131	642	647	0.0020	0.1000
41	RL-131	647	652	0.0020	0.1700
42	P-32			0.0950	0.1200
43	RL-131	652	657	0.0030	0.3500
44	RL-131	657	662	0.0020	0.1400
45	RL-131	662	667	0.0030	1.3800
46	RL-131	667	672	0.0110	2.0000
47	RL-131	672	677	0.0060	2.3100
48	RL-131	677	681	0.0150	5.0700
49	RL-131	681	688	0.0040	-0.1000
50	RL-131	688	692	0.0020	-0.1000

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NEVADA GSI, INC.

GEOCHEMICAL ANALYSIS REPORT

Job No.: LOAS8775

No.	Sample Id			Au opt	Ag opt
51	RL-131	692	697	0.0010	-0.1000
52	RL-131	697	702	0.0010	-0.1000
53	RL-131	702	707	0.0010	-0.1000
54	RL-131	707	712	0.0090	-0.1000
55	RL-131	712	717	0.0050	-0.1000
56	RL-131	717	722	0.0020	-0.1000
57	RL-131	722	727	0.0040	-0.1000
58	P-33			0.0410	-0.1000

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131

NOV 19 1990

NEVADA GSI, INC.

GEOCHEMICAL ANALYSIS REPORT

INCOMPLETE SEE ATTACHED

Client: Mr. Nate Brewer

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

Job #: LOAS8787
Samples: 70
Project: URBD
Product: FA2/AA
P.O. #:

This report has been reviewed and approved by:

Jerry Gaige, Production Manager

11-16-90
Date

NEVADA GSI, INC.

FEB 4 1991

February 1, 1991

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

Dear Mr. Brewer:

The enclosed report, #7315 for Fire Screen Analysis, reflects the corrected data for sample numbers RE57 550-555 through RE41 478-483. The erroneous data on the original report, reported to you by Gary Fechko, was due to a gross miscalculation of numbers.

Please be assured that Nevada GSI Inc., under new personnel, is continually evaluating and updating its Quality Assurance program to help eliminate these errors.

I apologize for any inconvenience this may have caused you.

Please do not hesitate to call me if you questions in this matter.

Sincerely,

Jerry Gaige
Operations Manager

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

NOV 29 1990

NEVADA GSI, INC.

GEOCHEMICAL ANALYSIS REPORT

RL-131C
727-1087

Client: Mr. Nate Brewer

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

Job #: LOAS8787
Samples: 73
Project: URBD
Product: FA2/AA
P.O. #:

This report has been reviewed and approved by:

Jerry Gaige, Production Manager

11-26-90
Date

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NEVADA GSI, INC.

GEOCHEMICAL ANALYSIS REPORT

NOV 19 1990

INCOMPLETE SEE ATTACHED

RL-13/C
727-1087

Client: Mr. Nate Brewer

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

Job #: LOAS8787
Samples: 70
Project: URBD
Product: FA2/AA
P.O. #:

This report has been reviewed and approved by:

Jerry Gaige, Production Manager

11-16-90
Date

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NEVADA GSI, INC.

GEOCHEMICAL ANALYSIS REPORT

Job No.: LOAS8787

No.	Sample Id			Au opt	Ag opt
1	RL-131	727	732	0.0050	-0.1000
2	R-28			0.0880	-0.1000
3	RL-131	732	740	0.0080	-0.1000
4	RL-131	740	745	0.0070	-0.1000
5	RL-131	745	750	0.0150	-0.1000
6	RL-131	750	755	0.0030	-0.1000
7	RL-131	755	760	0.0090	-0.1000
8	RL-131	775	780	0.0380	0.1300
9	RL-131	780	785	0.0050	-0.1000
10	RL-131	785	790	0.0130	-0.1000
11	RL-131	790	795	0.0180	-0.1000
12	RL-131	795	802	0.0210	-0.1000
13	RL-131	802	807	0.0660	-0.1000
14	RL-131	807	812	0.0050	-0.1000
15	RL-131	812	817	0.0010	-0.1000
16	RL-131	817	822	0.0040	-0.1000
17	RL-131	822	827	0.0050	-0.1000
18	RL-131	827	832	0.0010	-0.1000
19	R-29			0.0300	-0.1000
20	RL-131	832	837	0.0040	-0.1000
21	RL-131	837	842	0.0020	-0.1000
22	RL-131	842	848	0.0020	-0.1000
23	RL-131	848	852	0.0380	-0.1000
24	RL-131	852	857	0.0060	0.2700
25	RL-131	857	862	0.0050	-0.1000
26	RL-131	862	867	0.0070	-0.1000
27	RL-131	867	872	0.0010	-0.1000
28	RL-131	872	877	0.0040	-0.1000
29	RL-131	877	882	0.0040	-0.1000
30	RL-131	882	887	0.0020	-0.1000
31	RL-131	887	892	0.0020	-0.1000
32	RL-131	892	897	0.0050	-0.1000
33	RL-131	897	901.5	0.0970	0.1200
34	RL-131	901.5	904.5	0.0020	0.2100
35	RL-131	904.5	909.5	0.0010	-0.1000
36	RL-131	909.5	912	0.0020	0.2100
37	RL-131	912	920.5	0.0050	0.1800
38	RL-131	920.5	925.5	0.0010	-0.1000
39	R-30			0.0390	0.3500
40	RL-131	925.5	930.5	0.0010	0.1100
41	RL-131	930.5	935.5	-0.0010	0.1600
42	RL-131	935.5	940.5	-0.0010	0.1100
43	RL-131	940.5	945.5	-0.0010	0.1000
44	RL-131	945.5	950.5	-0.0010	-0.1000
45	RL-131	950.5	955.5	-0.0010	0.1400
46	RL-131	955.5	960.5	-0.0010	-0.1000
47	RL-131	960.5	965.5	-0.0010	-0.1000
48	RL-131	965.5	971	0.0210	0.2400
49	RL-131	971	976	-0.0010	0.1500
50	RL-131	976	981	-0.0010	0.1200

→ (?) No 760' - 775'

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NEVADA GSI, INC.

GEOCHEMICAL ANALYSIS REPORT

Job No.: LOAS8787

No.	Sample Id			Au opt	Ag opt
51	RL-131	981	986	-0.0010	-0.1000
52	RL-131	986	991.5	-0.0010	-0.1000
53	RL-131	991.5	997	-0.0010	-0.1000
54	RL-131	997	1002	-0.0010	-0.1000
55	RL-131	1002	1007	0.0010	-0.1000
56	RL-131	1007	1012	0.0030	-0.1000
57	RL-131	1012	1017	0.0010	-0.1000
58	RL-131	1017	1022	-0.0010	-0.1000
59	R-31			-0.0010	-0.1000
60	RL-131	1022	1027	-0.0010	-0.1000
61	RL-131	1027	1032	-0.0010	-0.1000
62	RL-131	1032	1037	-0.0010	-0.1000
63	RL-131	1037	1042	-0.0010	-0.1000
64	RL-131	1042	1047	-0.0010	-0.1000
65	RL-131	1047	1052	0.0070	-0.1000
66	RL-131	1052	1058	0.0020	0.2000
67	RL-131	1058	1063	-0.0010	0.3300
68	RL-131	1063	1068	-0.0010	-0.1000
69	RL-131	1068	1073	0.0010	0.1500
70	RL-131	1073	1087	-0.0010	0.1400

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NEVADA GSI, INC.

GEOCHEMICAL ANALYSIS REPORT

Job No.: LOAS8787

No.	Sample Id			Au opt	Ag opt
1	RL-131	727	732	0.0050	-0.1000
2	R-28			0.0880	-0.1000
3	RL-131	732	740	0.0080	-0.1000
4	RL-131	740	745	0.0070	-0.1000
5	RL-131	745	750	0.0150	-0.1000
6	RL-131	750	755	0.0030	-0.1000
7	RL-131	755	760	0.0090	-0.1000
8	RL-131	775	780	0.0380	0.1300
9	RL-131	780	785	0.0050	-0.1000
10	RL-131	785	790	0.0130	-0.1000
11	RL-131	790	795	0.0180	-0.1000
12	RL-131	795	802	0.0210	-0.1000
13	RL-131	802	807	0.0660	-0.1000
14	RL-131	807	812	0.0050	-0.1000
15	RL-131	812	817	0.0010	-0.1000
16	RL-131	817	822	0.0040	-0.1000
17	RL-131	822	827	0.0050	-0.1000
18	RL-131	827	832	0.0010	-0.1000
19	R-29			0.0300	-0.1000
20	RL-131	832	837	0.0040	-0.1000
21	RL-131	837	842	0.0020	-0.1000
22	RL-131	842	848	0.0020	-0.1000
23	RL-131	848	852	0.0380	-0.1000
24	RL-131	852	857	0.0060	0.2700
25	RL-131	857	862	0.0050	-0.1000
26	RL-131	862	867	0.0070	-0.1000
27	RL-131	867	872	0.0010	-0.1000
28	RL-131	872	877	0.0040	-0.1000
29	RL-131	877	882	0.0040	-0.1000
30	RL-131	882	887	0.0020	-0.1000
31	RL-131	887	892	0.0020	-0.1000
32	RL-131	892	897	0.0050	-0.1000
33	RL-131	897	901.5	0.0970	0.1200
34	RL-131	901.5	904.5	0.0020	0.2100
35	RL-131	904.5	909.5	0.0010	-0.1000
36	RL-131	909.5	912	0.0020	0.2100
37	RL-131	912	920.5	0.0050	0.1800
38	RL-131	920.5	925.5	0.0010	-0.1000
39	R-30			0.0390	0.3500
40	RL-131	925.5	930.5	0.0010	0.1100
41	RL-131	930.5	935.5	-0.0010	0.1600
42	RL-131	935.5	940.5	-0.0010	0.1100
43	RL-131	940.5	945.5	-0.0010	0.1000
44	RL-131	945.5	950.5	-0.0010	-0.1000
45	RL-131	950.5	955.5	-0.0010	0.1400
46	RL-131	955.5	960.5	-0.0010	-0.1000
47	RL-131	960.5	965.5	-0.0010	-0.1000
48	RL-131	965.5	971	0.0210	0.2400
49	RL-131	971	976	-0.0010	0.1500
50	RL-131	976	981	-0.0010	0.1200

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NEVADA GSI, INC.

GEOCHEMICAL ANALYSIS REPORT

Job No.: LOAS8787

No.	Sample Id			Au opt	Ag opt
51	RL-131	981	986	-0.0010	-0.1000
52	RL-131	986	991.5	-0.0010	-0.1000
53	RL-131	991.5	997	-0.0010	-0.1000
54	RL-131	997	1002	-0.0010	-0.1000
55	RL-131	1002	1007	0.0010	-0.1000
56	RL-131	1007	1012	0.0030	-0.1000
57	RL-131	1012	1017	0.0010	-0.1000
58	RL-131	1017	1022	-0.0010	-0.1000
59	R-31			-0.0010	-0.1000
60	RL-131	1022	1027	-0.0010	-0.1000
61	RL-131	1027	1032	-0.0010	-0.1000
62	RL-131	1032	1037	-0.0010	-0.1000
63	RL-131	1037	1042	-0.0010	-0.1000
64	RL-131	1042	1047	-0.0010	-0.1000
65	RL-131	1047	1052	0.0070	-0.1000
66	RL-131	1052	1058	0.0020	0.2000
67	RL-131	1058	1063	-0.0010	0.3300
68	RL-131	1063	1068	-0.0010	-0.1000
69	RL-131	1068	1073	0.0010	0.1500
70	RL-131	1073	1087	-0.0010	0.1400

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NEVADA GSI, INC.

GEOCHEMICAL ANALYSIS REPORT

Job No.: LOAS8787

No.	Sample Id			Au opt	Ag opt
1	RL-131	727	732	0.0050	-0.1000
2	R-28			0.0880	-0.1000
3	RL-131	732	740	0.0080	-0.1000
4	RL-131	740	745	0.0070	-0.1000
5	RL-131	745	750	0.0150	-0.1000
6	RL-131	750	755	0.0030	-0.1000
7	RL-131	755	760	0.0090	-0.1000
8	RL-131	760	765	0.0260	-0.1000
9	RL-131	765	770	1.6700	1.3700
10	RL-131	770	775	0.0170	-0.1000
11	RL-131	775	780	0.0380	0.1300
12	RL-131	780	785	0.0050	-0.1000
13	RL-131	785	790	0.0130	-0.1000
14	RL-131	790	795	0.0180	-0.1000
15	RL-131	795	802	0.0210 -7	-0.1000
16	RL-131	802	807	0.0660 -5	-0.1000
17	RL-131	807	812	0.0050	-0.1000
18	RL-131	812	817	0.0010	-0.1000
19	RL-131	817	822	0.0040	-0.1000
20	RL-131	822	827	0.0050	-0.1000
21	RL-131	827	832	0.0010	-0.1000
22	R-29			0.0300	-0.1000
23	RL-131	832	837	0.0040	-0.1000
24	RL-131	837	842	0.0020	-0.1000
25	RL-131	842	848	0.0020	-0.1000
26	RL-131	848	852	0.0380	-0.1000
27	RL-131	852	857	0.0060	0.2700
28	RL-131	857	862	0.0050	-0.1000
29	RL-131	862	867	0.0070	-0.1000
30	RL-131	867	872	0.0010	-0.1000
31	RL-131	872	877	0.0040	-0.1000
32	RL-131	877	882	0.0040	-0.1000
33	RL-131	882	887	0.0020	-0.1000
34	RL-131	887	892	0.0020	-0.1000
35	RL-131	892	897	0.0050	-0.1000
36	RL-131	897	901.5	0.0970	0.1200
37	RL-131	901.5	904.5	0.0020	0.2100
38	RL-131	904.5	909.5	0.0010	-0.1000
39	RL-131	909.5	912	0.0020	0.2100
40	RL-131	912	920.5	0.0050	0.1800
41	RL-131	920.5	925.5	0.0010	-0.1000
42	R-30			0.0390	0.3500
43	RL-131	925.5	930.5	0.0010	0.1100
44	RL-131	930.5	935.5	-0.0010	0.1600
45	RL-131	935.5	940.5	-0.0010	0.1100
46	RL-131	940.5	945.5	-0.0010	0.1000
47	RL-131	945.5	950.5	-0.0010	-0.1000
48	RL-131	950.5	955.5	-0.0010	0.1400
49	RL-131	955.5	960.5	-0.0010	-0.1000
50	RL-131	960.5	965.5	-0.0010	-0.1000

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NEVADA GSI, INC.

GEOCHEMICAL ANALYSIS REPORT

Job No.: LOAS8787

No.	Sample Id			Au opt	Ag opt
51	RL-131	965.5	971	0.0210	0.2400
52	RL-131	971	976	-0.0010	0.1500
53	RL-131	976	981	-0.0010	0.1200
54	RL-131	981	986	-0.0010	-0.1000
55	RL-131	986	991.5	-0.0010	-0.1000
56	RL-131	991.5	997	-0.0010	-0.1000
57	RL-131	997	1002	-0.0010	-0.1000
58	RL-131	1002	1007	0.0010	-0.1000
59	RL-131	1007	1012	0.0030	-0.1000
60	RL-131	1012	1017	-0.0010	-0.1000
61	RL-131	1017	1022	-0.0010	-0.1000
62	R-31			-0.0010	-0.1000
63	RL-131	1022	1027	-0.0010	-0.1000
64	RL-131	1027	1032	-0.0010	-0.1000
65	RL-131	1032	1037	-0.0010	-0.1000
66	RL-131	1037	1042	-0.0010	-0.1000
67	RL-131	1042	1047	-0.0010	-0.1000
68	RL-131	1047	1052	0.0070	-0.1000
69	RL-131	1052	1058	0.0020	0.2000
70	RL-131	1058	1063	-0.0010	0.3300
71	RL-131	1063	1068	-0.0010	-0.1000
72	RL-131	1068	1073	0.0010	0.1500
73	RL-131	1073	1087	-0.0010	0.1400

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NEVADA GSI, INC.

GEOCHEMICAL ANALYSIS REPORT

Q.A. Report

Dear customer:

In order to assure the quality of GSI's products, data for the following samples has been withheld:

1. RL-131 760-765 2. RL-131 765-770 3. RL-131 770-775

4. _____ 5. _____ 6. _____

7. _____ 8. _____ 9. _____

The data was withheld for:

X Re-Fire

_____ Quality Control Check

The data for the delayed samples will be ready no later than 11-19-90.

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

NEVADA GSI, INC.

Supressed Assay Report

Dear customer:

The following results were suppressed off the original report GSI job # LOA58787 due to a refire which took place on 11-29-90. The original assays are as follows:

	Sample Id	Au ppm - oz/t	Ag ppm - oz/t
L-131	760-765	0.0280	-0.1000
	765-770	1.6250	1.3700
RL-131	770-775	0.0200	-0.1000

If you have any questions, please do not hesitate to call me 702/359-6600.

Sincerely,

Becky Ferrel

Becky Ferrel

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

CMW 12/90

RL-131 Summary

300-521 Chocolate lit | tuff bxa | fgt

300-418 tuff bxa gen wk alt & wk to w-m vnlto but 342-361 has M & M-S vnlto Pr Q+mc

418-454 wk alt, v wk vnlto fgt

454-497 w-m bleach flesh color fgt w to w-M vnlto

497-510 wk alt, v wk vnlto fgt

510-521 tuff bxa, mod arg, v wk vnlto

521-546.5 ¿ Bud or Choc? 'fine' lit

contact w/ below at 40° to c.a.

546.5-651 ¿ Bud? lit

546.5-590 fairly fresh to wk bleach green lit, None to v wk vnlto

590-619.5 wk silic wk vnlto

619.5-629 coarser lit wk alt, wk vnlto/vugs wk vnlto

629-651 wk silic incr ↓ to w-m green lit

651-666.5 - lit (or bx'd ?)

tan & green clasts in flesh matrix, all mod silic, w-M vnlto

666.5-702 fault zone bx'd & silic

702-731.5 pink-tan fgt, m-str fractured, mod silic m to m-str vnlto / crackle △ w/ gray silicate rein py matrix

731.5-740 fault zone, top arg, bottom silic brecciation up tuff fgt

RL-131

740 - 753 Tmb ??? md grey porphyritic (sanidine/plag) fgt, md veined

753 - 912 pale ~~green~~ peach, tan, pink & green fgt med to locally str. broken up, abt fracts! — can't tell if LBT or Dozer?

wk silic? 753 - 833 wk vnlts

LBT??

mod arg 833 - 865 (str 855 - 862 clayey rubble) wk vnlts

wk silic? & bleach 865 - ~~912~~ 877

m-str arg 877 - 882

wk silic? & bleach 882 - 902 wk vnlts,

healed bx'd 902 - 912 w-m silic

fault between LBT & Dozer?

912 - 922 fault zone? core broken-up into 1/2" - 2" pieces rubble, bleached, silic

922 - 1019.5 Dozer fgt, wk vnlts, even text, pale green-grey

locally bx'd: 951 - 964, 973 - 997 w-m Si, crackle ▲

1019.5 - 1050 Trans sediments - SS & siltstone & ppé

bedded @ ~ 70° to c.a.

1050 - 1078 T.D. Black Tr/Jr shales

1057 - 1078 appear graphitic/baked