60001357

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-128-C
AUTHOR	C. Walck; N. Brewer
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 667' handwritten notes 22p.

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	5/20/08
DB:	mah	
SCANNED:		

Revised: 1/22/08

60001357 4010

6666 1357

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

DRILL LOG SUMMARY SHEET

PROJECT Rosebud

HOLE NUMBER RL-128 TOTAL DEPTH 667' LOGGED BY NHB/CMW

Date started 10/16/90

Date completed 10/17/90 pm

Initial bearing S56E

Initial inclination -60

Elevation 5216.8

Collar coordinates:

N 2,203,677

E 481,222.2

Contractor: Coates

Drill Type: UDR 650

Hole Size: RC 0-300'/HQ

Drilling Conditions: Good except near fault @ 650

Footage: Wet / Dry where rods got stuck for a few tense minutes.

Comments: Downdip Test of RL-41: Looks fair to good. Would have gone 20-30' deeper but bit shot. TD ~ 9pm.

DOWN HOLE SURVEY INFORMATION

0 50 -60 S55E

FROM	TO	SURVEY POINT	INCLI-NATION	BEARING	X (Northing)	Y (Easting)	Z (Elevation)
50	200	100'	-60	S59E			
200	400	300'	-63	S62E			
400	583.5	500	-62	S64E			
583.5	667	667	-62.5	S66E			

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-128

Page 1 of ____

LOGGED BY NHR

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	% WASH RECOV.
	O/B													0-20: Overburden	.001	<		
05																		
10															.002			
15															.001			
20										X				← Bedrock may start somewhere here?	.006			
25		~m +Xw	X	X		X			Yell.	X				20-70' Mostly tan-grey-brn oxidized wk-sild & w.arg.	.008			
30		~w- +Xw	X			X			yell -tan	X				xtl-poor fgt (Choco.Tuff) -has somewhat gran. appearance.	.006			
35			X			X				X					.005			
40			X			X				X					.002			
45			X			X				X					.001			
50			X			X			+brn	X	X			brn feox ↑	.002			
55			X			X				X	X				.004			
60			X			X				X					.005			
65		~w	X							X				silⁿ ↓	.001			
70			X						+grn	X				+20% green llt chips	.001			
75			X							X				70-85' Becomes green & tan-grey mixed ox & red.	.001			
80			X							X				Prob. trans. into llt (Bud?)	.001			
85			X							X (ox) Re					<			
90			X											85-105 Mostly green-grey reduced llt (Bud)	.001			
95			X												.001			
100			X												.002			

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-128

Page 2 of ____

LOGGED BY NHB

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	% WASH RECOV.
		~w	X						green +grey				tr-1		.009	<		
105			X						grey >>grn					105-150: Δ to mostly grey >green speckled granular	.001	<		
110			X											xtl-poor tuff (CT again)	.004	.43		
115			X												.006	<		
120			X												.001	<		
125			X												.001	<		
130			X												.003	<		
135		+Xw	X			X?									.003	.17		
140			X						+grn						.002	<		
145			X												.002	<		
150			X						grn					150-260' Becomes mostly green ?lit (Bud) w/	.001	.18		
155		~w-m	X	X										w-m clay alt. as usual. ± tr-1% py	.001	<		
160			X											[CMW 1/92 - THIS IS ALL LOT - fg grey green w/ tiny dk phenos]	<	<		
165			X											Drill wet at 170'	<	<		
170		Xw-m +?~w	X			X	X						1-2	170-~190': seems to incr. in silh w/ hardn	.001	<		
175			X			X	X							more angular chips + notable incr. in vn. py to 1-2%?	.003	<		
180			X			X									.001	.14		
185			X			X									.001	.16		
190		~w	X										tr-1		.006	.12		
195		"	X										"		.001	<		
200																		

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

FINE-GRAINED TUFF
LITHIC LAPILLI TUFF

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

DRILL HOLE RL-128

Page 3 of ____

LOGGED BY NHR

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	% WASH RECOV.
	✓✓ ✓✓	~w	X						pale green				tr-1	as above → ~260' green w-m argillized lit (BUD) [LBT CMW 1/92]	.001	<		
205			X												.001	<		
210			X												.001	<		
215			X												<	<		
220			X												.013	.14		
225			X												.002	<		
230			X												.001	<		
235			X												.001	<		
240			X						+lt brn					240-260: matrix gradually A to lt. brn	.001	.13		
245			X												.001	.18		
250			X												<	.18		
255			X													<		
260			X						dk. brn -purple					260-285: Mostly dk brn-purple >> grn lit (Bud?)				
265			X															
270			X															
275			X															
280			X															
285			X						grn +lt.brn					285-300' A back to green variety w/ lt. brn matrix as from 240-260				
290			X															
295			X															
300			X															

HOLE # RL-128 LOGGED BY CM Walck DATE 11-90 PAGE 1 OF 6

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	ALTER.
300	100	None	None	None		Wk Bleached
310	105					
320	105					
330	100					
340	100		Fault/shear zone?	Kaol vnlts		Str Arg
			None	Minor dissem py		Mod Bleached
350	100					
360	98					
370						

DESCRIPTION

0-300 R.C.

300-639.5 Lithic lapilli tuff / tuff breccia, w/ some banded layers? deeper. When ~ fresh the groundmass is dark grey or deep red-brown. Matrix supported. Clasts range from few mm to several centimeters, subangular, & are red brown, lt-med green or lt grey-white; they are fine grained, no phenos.

300-310: Med flesh/red-brown matrix, w/ 60% clasts — 3mm - > 8 cm, pale green, f.gr. No veining.

310-320: lt green f.gr. even-textured tuff, v. weak thin fractures. (Could be lg boulder?)

320-324: Mottled green & dk grey f.gr. tuff

324-337.5: same as 300-310, last 3' slightly more bleached

337.5-341: Rubbly argillized zone; alt'd to red-brown clay w/ some vnlts white kaol.

341-374: More bleached version of llt. Matrix is a med pink-grey to green-grey. Contains ~ 55-60% clasts, mostly pale grey or pale grey-green, some pale pink. ~ 1/4 have slightly darker interior than rim. Locally w/ dissem py. No veining.

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
330-334				<	.22
337.5				.001	<
341				<	.22
346				<	<
351				.012	.26
356				.001	.22
360.5				.001	.30
365.5				.001	.30
371				.001	.21

HOLE # RL-128 LOGGED BY CMW DATE 11-90 PAGE 2 OF 6

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERAL-IZATION	GRAPHIC LOG	ALTER.
	100	None	None	None		Mod Arg
						fresh
380	95					
		Flow? c Banded 30°-50° to c.a.				
390	100					
400	100	None				
			Rare vnlts	Rare calc vnlts		
410	100					
420	100					
430	105		None	None		
440						

DESCRIPTION

300-639.5 cont: LBT

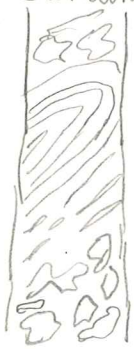
374-385: Dark grey f.gr. groundmass; w/ ~30% lapilli - 3mm - 4cm, angular, lt grey/white and med pink/lt red-brown. No veining.

385-402: Banded dk grey & dk red brown, bands avg 1/16" - 1/4" wide, gen. at 30-50° to c.a. Some 1' intervals of lbt also.

402-406: More lithic rich lbt: dk grey groundmass, w/ 70-80% clasts; med red-brown, 3mm - 3cm.

406-430: lbt; med to dk grey groundmass w/ ~25-30% lapilli: 3mm - >6cm, angular, med red-brown, locally bleached to white, f.gr., no phenos. Rare calc. vnlts (<1/ft, 1/8")

430-445: dark purple-grey & dk red brown blotchy mix between banded & lbt... Banding 'rougher' & cut off w/ layers of blobby lapilli



ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
371-374				<	.20

HOLE # RL-128 LOGGED BY _____ DATE _____ PAGE 3 OF 6

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	ALTER.	DESCRIPTION
	105	None	Rare vnlts	Rare calc vnlts		Fresh	300-639.5 cont:
450	100	Banded at 35°-55° to c.a.	None	None			445-458: Banded dk grey & dk red brown, grey being more alt. Bands are generally smooth, but some are disjointed. Bands gen. at 35°-55° to c.a. Rare calc. vnlts.
460	105	None				Mod Bleached	458-466: Mostly llt w/ some banding. Groundmass dk grey bleaching ↓ to red brown. Lapilli are red-brown bleaching ↓ to lt grey/white.
470	95	Banded ∥ to c.a. variable	W-M vnlts	dk green c'chlor? green Kaol, white Kaol, ±py			466-475: Mod bleached llt. Groundmass lt pink-grey, contains ~ 40-55% clasts 3mm-4cm, angular, lt grey w/ med grey 1/32" rim around edge.
480	100						475-502: Mod bleached banded f.gr. tuff. Lt grey, lt grey-green & lt flesh colors. W-M fractured w/ FeOx or dk green c'chlor.? on thin fract's. 1/16"-1/4" veinlets (W-M, 2-6/ft) w/ green 'duck butter' Kaol, dk green c'chlor?, white Kaol, and ±minor py.
490	100						2" of bladed 'angel wing' calc. at 497'
500	90		rubbly	As above + grey silica		m-Str Arg	502-521: Alternating bleached, banded f.gr. tuff as above & rubbly more argillized & bx'd zones;- lt pink & grey clayey rubble & some coherent pieces of bxa - rotated clasts of banded tuff in clayey matrix. Bx'n at 509-513, 516-521. Veinlets & matrix of white & green Kaol, locally w/ grey silica ± py.
510			Bx'd				

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
469'-472				.001	.35
472-477				<	.14
482				<	.20
487				<	.12
492				<	.25
497				<	.14
502				.001	.34
507				<	.24
512				.002	.32

HOLE # RL-128 LOGGED BY _____ DATE _____ PAGE 4 OF 6

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	ALTER.
	98	None	Bx'd fault zone with w-m vnlts	Green Kaol, white Kaol, Grey silica ± py		M-Str Arg
520	105		wk vnlts	green Kaol, calc ± py		Mod bleached
530	100					
540	105		v wk vnlts			
550	95					
560	98		broken up & locally bx'd & fault?	green Kaol, calc, white Kaol		
570	100		Mod veined	green Kaol, calc ± py, dk green ± calc ± py		
580						

DESCRIPTION

300-639.5 cont:

521 - 541 light grey-green & lt flesh lithic lapilli tuff. Angular f.gr. lt grey-green clasts comprise ~60-75%, 3mm - 3cm. in pinkish f.gr. groundmass. ~2% dissem py.

Weak vnlts: 1-3/ft; 1/16 - 1/8" wide, green kaol, & some calcite ± py.

541-557 light grey-green & lt flesh banded & blotchy mixed banded felt. W/ minor veinlets (1/ft) green kaol, & calcite. Minor dissem py.

557-568 Alternating bleached f.gr. banded tuff & rubbly & bx'd zones. lt flesh grey & pale green grey. Goes from fractured → crackle bx'd w/ abt vnlts to more broken up & barely matrix supported bxa. Vnlts/matrix is milky white, c qtz + kaol? & green 'duck butter' kaol, ± white kaol. Strongest bx'n at: 558-559, 561-563, 567-568

568-590: lt green-gray & pink-grey f.gr. tuff, only locally banded. somewhat broken up & mod. veined: green 'duck butter' kaol, calc. ± py, dk green c chlor? ± calc ± py. (3-8/ft, 1/16" - 1/4" wide)

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
517				.009	.26
522				.002	.16
527				.001	.23
532				.001	.21
537				<	.21
542				<	.17
547				<	.10
552				<	.20
557				<	.18
562				.001	.15
567				<	.18
572				<	.2
577				.001	.11
580				.001	<

HOLE # RL-128 LOGGED BY _____ DATE _____ PAGE 5 OF 6

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
	100	None	Mod. veined	green Kaol, calc ± py, dk green ¿chlor		Mod Bleached	300-639.5 cont:	585				<	.15
							568-590 cont: last 2' is finely mottled med flesh & lt green						
590	98		Bx'd (hydroth?)	calc & Kaol		W-M bleached	590-592: Str. crackle-bx'd zone w/ some vein bx'a. Med flesh color w/ dk red-br on fractures. Cut by veinlet w/ large blades of 'angelwing' calcite, partly replaced by whole Kaol. Minor py.	590				<	.15
			wk veined	calc, green Kaol, dk green ± calc ± py			592-611: Med peach-flesh color w/ med green discontinuous bands/stringers 1/4" wide, 1-3" long. Preferred ∡ at ~10° to c.a.	595				<	.14
600	100		w-m veined				Generally weakly veined, 1-3/ft, 1/8" wide; calc, green kaol, dk green ¿chlor? ± calc ± py. Preferred ∡ at 50° to c.a., but also random	600.5				<	.10
			wk veined				Locally more cracked-up & veined: 603-604, 606-607	605.5				.001	.20
610	100		vein	calc	calc		611-612 Massive vein of white calcite, at ~45° to c.a.	610.5				.001	.15
			Mod veined	Calc ± py ± dk green & green Kaol			612-633.5: med flesh & green f.gr. tuff, locally crackle bx'd. Mod to M-Str veining; 5-10/ft, 1/8-1/3" wide; Calcite ± dk green ¿chlor? ± py, green 'duckbutter' Kaol; (Calc seems to x-cut green Kaol)	615.5				<	.13
620	100						629-631 more strongly bx'd.	621				.002	.10
								626				.001	.20
630	86		Bx'd Zone	calc + green Kaol			633.5-639.5: bx'd flesh tuff - matrix is white calcite ± green Kaol. - bx'd by the veining.	631.5				.001	.15
								633.5				<	.15
								639.5				.001	.20
640	97		fault bx'a zone	few calc vnlts		Mod Argillized	639.5-650: Bx'a / fault zone, clasts of argillized flesh tuff in grey clayey matrix ('South Ridge fault') Clasts 1mm - 3cm comprise ~50%-60%. Last 1' is just green clay. Few calc vnlts.	644.5				<	<
								649				<	<
650	91												

HOLE # RL-128 LOGGED BY CMW DATE 11-90 PAGE 6 OF 6

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
	78	None	± wk crackle bx'n	None		Fresh?	650-667 T.D. lt green / 'sage green' Dozer tuff. Weakly crackle bx'd in places. Rare calc veinlets. Couple of 1' zones of clay/sand rubble at 656.5-657.5 & 662.5-663.5.	656.5				<	<
660	110			rare calc		Arg / Fresh		662				.001	<
667 TD						Arg / Fresh		667				.001	<

RL-128C

10/17 NHB

Block Interval	% Rec.	Sample	Notes
300-310	100		300-310' rb matrix lt (czc) to vdc. bx (mostly grn. clasts
-320	105		
-330	105		310-324' green to mottled
-340	~100?	S 330-334	purple fgt
-350.5	~100	S -337.5	324-337.5' rb lt as above
-360.5	100	S -341.0	cc vnlt @ 336
-371.0	98	S -346.	* 337.5-341.0 gouge, rubble
-381.0	100	S -351	in peach/pink colored
-391.5	95	S -356	fault zone ± wht. Kaol.
-401.5	100	S -360.5	and py,
-411.5	100	S -365.5	341-374' bl pale grn-tan lt ± wk (tr) cc vng &
-422	100	S -371.0	local rare diss. py
-432	100	S -374	374-~440 rb & purple & grey
-442	105		lt ± local mottled
-452	105		fbt or large blocks?
-462	100		~440-~455 gradually Δ to
-472	105		fb mottled purple & grey
-482	95		tuff
-492	100		~455-~469 gradually Δ to
-502	100		lt as above
512	90%		
-522	98%		
-532	105	S 469-472	* ~469-~509 becomes w/
-542	100	-477	bl lt w/ bl frags in
-552	105	-482	pink-tan & pale grn
-562	95	-487	matrix ± patchy py
-572	98	-492	and rare cc vng
-580	100	-497	@~497 angelwing sil after cc
-590	100	C 497-502	** 509-572 fault bx/gouge
-600.5	98	-507	* ~522-542 familiar lt
		-512	from South End
		-517	w/ bl-tan matrix and var
		-522	bl to pale grn fgt frag
		-527	± minor cc vng.
		-532	542- gradually Δ to
		-537	lgl fgt/±fbt - pink/tan
		-542	
		-547	
		-552	567-572
		-557	-577
		-562	-580
		-567	

RL-128 cont'd

-615.5	100		
-620.5	100		
-621	100		
-631.5	100		
-639.5	6.9/8	86	
-649	9.2/9.5	97	
-656.5	6.1/7.5	81	
-662	4.3/5.5	78	
-667	5.5/5	?	110?

Samples	Notes
c580-585	542-~587 bl. tan/grey fgz ± flowbanding & w-m cc and qtz-py vnq.
-590	
-595	
-600.5	
-605.5	** 587-633.5 as above but ↑ cc vnq ± py vns & commo green frax coats and selve ± local breccia zones
-610.5	
-615.5	
-621	
-626	- 0.8' cc vein @~612'
-631.5	- Frax vnq & local bxn ↑ ~
-633.5	616-633.5
-639.5	
-644.5	633.5-639.5 becoming m-s bx'd
-649	
-656.5	
-662	639.5-649 Stng flt bx "SRF" ± abdt cc
-667	
TD	

649-667 Var. sil'd & locally bx'd Dozer eop 666-667.

TD'd 10/17 8:30pm because bit shot

NHB

NEVADA GSI, INC.

GEOCHEMICAL ANALYSIS REPORT

Job No.: LOAS8674

No.	Sample Id			Au opt	Ag opt
1	RL-128	0	5	.0010	-.1000
2	P-94			.0920	.1700
3	RL-128	5	10	.0020	-.1000
4	RL-128	10	15	.0010	-.1000
5	RL-128	15	20	.0060	-.1000
6	RL-128	20	25	.0080	-.1000
7	RL-128	25	30	.0060	-.1000
8	RL-128	30	35	.0050	-.1000
9	RL-128	35	40	.0020	-.1000
10	RL-128	40	45	.0010	-.1000
11	RL-128	45	50	.0020	-.1000
12	RL-128	50	55	.0040	-.1000
13	RL-128	55	60	.0050	-.1000
14	RL-128	60	65	.0010	-.1000
15	RL-128	65	70	.0010	-.1000
16	RL-128	70	75	.0010	-.1000
17	RL-128	75	80	.0010	-.1000
18	RL-128	80	85	-.0010	-.1000
19	RL-128	85	90	.0010	-.1000
20	RL-128	90	95	.0010	-.1000
21	RL-128	95	100	.0020	-.1000
22	P-95			.0340	.1500
23	RL-128	100	105	.0090	.1000
24	RL-128	105	110	.0010	-.1000
25	RL-128	110	115	.0040	.4300
26	RL-128	115	120	.0060	-.1000
27	RL-128	120	125	.0010	-.1000
28	RL-128	125	130	.0010	-.1000
29	RL-128	130	135	.0030	-.1000
30	RL-128	135	140	.0030	.1700
31	RL-128	140	145	.0020	-.1000
32	RL-128	145	150	.0020	-.1000
33	RL-128	150	155	.0010	.1800
34	RL-128	155	160	.0010	-.1000
35	RL-128	160	165	-.0010	-.1000
36	RL-128	165	170	-.0010	-.1000
37	RL-128	170	175	.0010	-.1000
38	RL-128	175	180	.0030	-.1000
39	RL-128	180	185	.0010	.1400
40	RL-128	185	190	.0010	.1600
41	RL-128	190	195	.0060	.1200
42	P-96			.0300	.1400
43	RL-128	195	200	.0010	-.1000
44	RL-128	200	205	.0010	-.1000
45	RL-128	205	210	.0010	-.1000
46	RL-128	210	215	.0010	-.1000
47	RL-128	215	220	-.0010	-.1000
48	RL-128	220	225	.0130	.1400
49	RL-128	225	230	.0020	-.1000
50	RL-128	230	235	.0010	-.1000

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NEVADA GSI, INC.

GEOCHEMICAL ANALYSIS REPORT

Job No.: LOAS8674

No.	Sample Id			Au opt	Ag opt
51	RL-128	235	240	.0010	-.1000
52	RL-128	240	245	.0010	.1300
53	RL-128	245	250	.0010	.1800
54	RL-128	250	255	-.0010	.1800
55	RL-128	255	260	-.0010	-.1000
56	RL-128	260	265	-.0010	-.1000
57	RL-128	265	270	-.0010	-.1000
58	RL-128	270	275	-.0010	-.1000
59	RL-128	275	280	-.0010	-.1000
60	RL-128	280	285	-.0010	-.1000
61	RL-128	285	290	-.0010	-.1000
62	P-97			.0310	.1500
63	RL-128	290	295	-.0010	-.1000
64	RL-128	295	300	-.0010	-.1000
65	RL-138	0	5	-.0010	-.1000
66	RL-138	5	10	-.0010	-.1000
67	RL-138	10	15	-.0010	-.1000
68	RL-138	15	20	-.0100	-.1000
69	RL-138	20	25	.0010	-.1000
70	RL-138	25	30	.0010	-.1000
71	RL-138	30	35	.0090	-.1000
72	RL-138	35	40	.0020	-.1000
73	RL-138	40	45	.0010	-.1000
74	RL-138	45	50	.0010	.1000
75	RL-138	50	55	.0170	-.1000
76	RL-138	55	60	.0030	-.1000
77	RL-138	60	65	.0070	-.1000
78	RL-138	65	70	.0060	-.1000
79	RL-138	70	75	.0170	-.1000
80	RL-138	75	80	.0050	-.1000
81	RL-138	80	85	.0120	-.1000
82	P-98			.0160	-.1000
83	RL-138	85	90	.0030	-.1000
84	RL-138	90	95	.0040	.1000
85	RL-138	95	100	.0030	-.1000
86	RL-138	100	105	.0030	-.1000
87	RL-138	105	110	.0030	-.1000
88	RL-138	110	115	.0040	.1500
89	RL-138	115	120	.0050	.1000
90	RL-138	120	125	.0090	.1700
91	RL-138	125	130	.0050	.1600
92	RL-138	130	135	.0030	.1100
93	RL-138	135	140	.0040	-.1000
94	RL-138	140	145	.0050	.2200
95	RL-138	145	150	.0050	.1200
96	RL-138	150	155	.0030	.1200
97	RL-138	155	160	.0020	-.1000
98	RL-138	160	165	.0020	-.1000
99	RL-138	165	170	.0020	-.1000
100	RL-138	170	175	.0020	-.1000

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Job No.: LOAS8674

No.	Sample Id			Au opt	Ag opt
101	RL-138	175	180	.0020	-.1000
102	P-99			.0780	.1000
103	RL-138	180	185	.0030	-.1000
104	RL-138	185	190	.0030	-.1000
105	RL-138	190	195	.0080	-.1000
106	RL-138	195	200	.0020	-.1000
107	RL-138	200	205	.0040	-.1000
108	RL-138	205	210	.0060	-.1000
109	RL-138	210	215	.0080	-.1000
110	RL-138	215	220	.0090	.1800
111	RL-138	220	225	.0120	.2000
112	RL-138	225	230	.0050	.1200
113	RL-138	230	235	.0080	-.1000
114	RL-138	235	240	.0070	.1300
115	RL-138	240	245	.0020	-.1000
116	RL-138	245	250A	.0020	-.1000
117	RL-138	245	250B	.0020	-.1000
118	RL-138	250	255	.0040	.1100
119	RL-138	255	260	.0060	.1100
120	RL-138	260	265	.0040	-.1000
121	RL-138	265	270	.0020	-.1000
122	P-100			.0480	-.1000
123	RL-138	270	275	.0030	-.1000
124	RL-138	275	280	.0020	-.1000
125	RL-138	280	285	.0020	-.1000
126	RL-138	285	290	.0020	.1700
127	RL-138	290	295	.0100	-.1000
128	RL-138	295	300	.0020	-.1000
129	RL-138	300	305	.0010	-.1000
130	RL-138	305	310	.0090	-.1000
131	RL-138	310	315	.0020	-.1000
132	RL-138	315	320	.0020	-.1000
133	RL-138	320	325	.0030	-.1000
134	RL-138	325	330A	.0030	-.1000
135	RL-138	325	330B	.0020	-.1000
136	RL-138	330	335	.0030	-.1000
137	RL-138	335	340	.0010	-.1000
138	RL-138	340	345	.0020	-.1000
139	RL-138	345	350	.0070	-.1000
140	RL-138	350	355	.0020	-.1000
141	RL-138	355	360	.0010	.3200
142	P-2			.0010	-.1000
143	RL-138	360	365	.0020	.1000
144	RL-138	365	370	.0030	-.1000
145	RL-138	370	375	.0030	-.1000
146	RL-138	375	380	.0070	-.1000
147	RL-138	380	385	.0100	-.1000
148	RL-138	385	390	.0030	-.1000
149	RL-138	390	395	.0020	-.1000
150	RL-138	395	400	.0020	-.1000

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Job No.: LOAS8674

No.	Sample Id			Au opt	Ag opt
151	RL-138	400	405	.0010	-.1000
152	RL-138	405	410	.0010	-.1000
153	RL-138	410	415	.0010	-.1000
154	RL-138	415	420	.0020	-.1000
155	RL-138	420	425	-.0010	-.1000
156	RL-138	425	430	.0010	-.1000
157	RL-138	430	435	.0010	-.1000
158	RL-138	435	440	.0020	-.1000
159	RL-138	440	445	.0010	-.1000
160	RL-138	445	450	-.0010	-.1000
161	RL-138	450	455	-.0010	-.1000
162	P-4			.0380	-.1000
163	RL-138	455	460	-.0010	-.1000
164	RL-138	460	465	.0010	-.1000
165	RL-138	465	470	.0010	-.1000
166	RL-138	470	475	.0010	-.1000
167	RL-138	475	480	.0010	-.1000
168	RL-138	480	485	.0020	-.1000
169	RL-138	485	490	.0010	-.1000
170	RL-138	490	495	-.0010	-.1000
171	RL-138	495	500	.0010	-.1000
172	RL-138	500	505	.0030	-.1000
173	RL-138	505	510	-.0010	-.1000
174	RL-138	510	515	-.0010	-.1000
175	RL-138	515	520	-.0010	-.1000
176	RL-138	520	525	-.0010	-.1000
177	RL-138	525	530	-.0010	-.1000
178	P-5			.0360	.1600

NEVADA GSI, INC.

GEOCHEMICAL ANALYSIS REPORT

Job No.: L0AS8689

No.	Sample Id	Au opt	Ag opt
1	RL-128 330-334	-.0010	.2200
2	p-58	.0980	.1200
3	RL-128 334-337.5	.0100	-.1000
4	RL-128 337.5-341	-.0010	.2200
5	RL-128 341-346	-.0010	-.1000
6	RL-128 346-351	.0120	.2600
7	RL-128 351-356	.0010	.2200
8	RL-128 356-360.5	.0010	.3000
9	RL-128 360.5-365.5	.0010	.3000
10	RL-128 365.5-371	.0010	.2100
11	RL-128 371-374	-.0010	.2000
12	RL-128 469-472	.0010	.3500
13	RL-128 472-477	-.0010	.1400
14	RL-128 477-482	-.0010	.2000
15	RL-128 482-487	-.0010	.1200
16	RL-128 487-492	-.0010	.2500
17	RL-128 492-497	-.0010	.1400
18	RL-128 497-502	.0010	.3400
19	RL-128 502-507	-.0010	.2400
20	RL-128 507-512	.0020	.3200
21	RL-128 512-517	.0090	.2600
22	P-59	.0290	.1800
23	RL-128 517-522	.0020	.1600
24	RL-128 522-527	.0010	.2300
25	RL-128 527-532	.0010	.2100
26	RL-128 532-537	-.0010	.2100
27	RL-128 537-542	-.0010	.1700
28	RL-128 542-547	-.0010	.1000
29	RL-128 547-552	-.0010	.2000
30	RL-128 552-557	-.0010	.1800

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NEVADA GSI, INC.

GEOCHEMICAL ANALYSIS REPORT

Job No.: LOAS8689

No.	Sample Id	Au opt	Ag opt
1	RL-128 330-334	-.0010	.2200
2	p-58	.0980	.1200
3	RL-128 334-337.5	.0100	-.1000
4	RL-128 337.5-341	-.0010	.2200
5	RL-128 341-346	-.0010	-.1000
6	RL-128 346-351	.0120	.2600
7	RL-128 351-356	.0010	.2200
8	RL-128 356-360.5	.0010	.3000
9	RL-128 360.5-365.5	.0010	.3000
10	RL-128 365.5-371	.0010	.2100
11	RL-128 371-374	-.0010	.2000
12	RL-128 469-472	.0010	.3500
13	RL-128 472-477	-.0010	.1400
14	RL-128 477-482	-.0010	.2000
15	RL-128 482-487	-.0010	.1200
16	RL-128 487-492	-.0010	.2500
17	RL-128 492-497	-.0010	.1400
18	RL-128 497-502	.0010	.3400
19	RL-128 502-507	-.0010	.2400
20	RL-128 507-512	.0020	.3200
21	RL-128 512-517	.0090	.2600
22	P-59	.0290	.1800
23	RL-128 517-522	.0020	.1600
24	RL-128 522-527	.0010	.2300
25	RL-128 527-532	.0010	.2100
26	RL-128 532-537	-.0010	.2100
27	RL-128 537-542	-.0010	.1700
28	RL-128 542-547	-.0010	.1000
29	RL-128 547-552	-.0010	.2000
30	RL-128 552-557	-.0010	.1800

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NEVADA GSI, INC.

GEOCHEMICAL ANALYSIS REPORT

Job No.: LOAS8689

No.	Sample Id	Au opt	Ag opt
1	RL-128 330-334	-.0010	.2200
2	p-58	.0980	.1200
3	RL-128 334-337.5	.0100	-.1000
4	RL-128 337.5-341	-.0010	.2200
5	RL-128 341-346	-.0010	-.1000
6	RL-128 346-351	.0120	.2600
7	RL-128 351-356	.0010	.2200
8	RL-128 356-360.5	.0010	.3000
9	RL-128 360.5-365.5	.0010	.3000
10	RL-128 365.5-371	.0010	.2100
11	RL-128 371-374	-.0010	.2000
12	RL-128 469-472	.0010	.3500
13	RL-128 472-477	-.0010	.1400
14	RL-128 477-482	-.0010	.2000
15	RL-128 482-487	-.0010	.1200
16	RL-128 487-492	-.0010	.2500
17	RL-128 492-497	-.0010	.1400
18	RL-128 497-502	.0010	.3400
19	RL-128 502-507	-.0010	.2400
20	RL-128 507-512	.0020	.3200
21	RL-128 512-517	.0090	.2600
22	P-59	.0290	.1800
23	RL-128 517-522	.0020	.1600
24	RL-128 522-527	.0010	.2300
25	RL-128 527-532	.0010	.2100
26	RL-128 532-537	-.0010	.2100
27	RL-128 537-542	-.0010	.1700
28	RL-128 542-547	-.0010	.1000
29	RL-128 547-552	-.0010	.2000
30	RL-128 552-557	-.0010	.1800

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GEOCHEMICAL ANALYSIS REPORT

Job No.: LOAS8674

No.	Sample Id			Au opt	Ag opt
1	RL-128	0	5	.0010	-.1000
2	P-94			.0920	.1700
3	RL-128	5	10	.0020	-.1000
4	RL-128	10	15	.0010	-.1000
5	RL-128	15	20	.0060	-.1000
6	RL-128	20	25	.0080	-.1000
7	RL-128	25	30	.0060	-.1000
8	RL-128	30	35	.0050	-.1000
9	RL-128	35	40	.0020	-.1000
10	RL-128	40	45	.0010	-.1000
11	RL-128	45	50	.0020	-.1000
12	RL-128	50	55	.0040	-.1000
13	RL-128	55	60	.0050	-.1000
14	RL-128	60	65	.0010	-.1000
15	RL-128	65	70	.0010	-.1000
16	RL-128	70	75	.0010	-.1000
17	RL-128	75	80	.0010	-.1000
18	RL-128	80	85	-.0010	-.1000
19	RL-128	85	90	.0010	-.1000
20	RL-128	90	95	.0010	-.1000
21	RL-128	95	100	.0020	-.1000
22	P-95			.0340	.1500
23	RL-128	100	105	.0090	.1000
24	RL-128	105	110	.0010	-.1000
25	RL-128	110	115	.0040	.4300
26	RL-128	115	120	.0060	-.1000
27	RL-128	120	125	.0010	-.1000
28	RL-128	125	130	.0010	-.1000
29	RL-128	130	135	.0030	-.1000
30	RL-128	135	140	.0030	.1700
31	RL-128	140	145	.0020	-.1000
32	RL-128	145	150	.0020	-.1000
33	RL-128	150	155	.0010	.1800
34	RL-128	155	160	.0010	-.1000
35	RL-128	160	165	-.0010	-.1000
36	RL-128	165	170	-.0010	-.1000
37	RL-128	170	175	.0010	-.1000
38	RL-128	175	180	.0030	-.1000
39	RL-128	180	185	.0010	.1400
40	RL-128	185	190	.0010	.1600
41	RL-128	190	195	.0060	.1200
42	P-96			.0300	.1400
43	RL-128	195	200	.0010	-.1000
44	RL-128	200	205	.0010	-.1000
45	RL-128	205	210	.0010	-.1000
46	RL-128	210	215	.0010	-.1000
47	RL-128	215	220	-.0010	-.1000
48	RL-128	220	225	.0130	.1400
49	RL-128	225	230	.0020	-.1000
50	RL-128	230	235	.0010	-.1000

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GEOCHEMICAL ANALYSIS REPORT

Job No.: LOAS8674

No.	Sample Id			Au opt	Ag opt
51	RL-128	235	240	.0010	-.1000
52	RL-128	240	245	.0010	.1300
53	RL-128	245	250	.0010	.1800
54	RL-128	250	255	-.0010	.1800
55	RL-128	255	260	-.0010	-.1000
56	RL-128	260	265	-.0010	-.1000
57	RL-128	265	270	-.0010	-.1000
58	RL-128	270	275	-.0010	-.1000
59	RL-128	275	280	-.0010	-.1000
60	RL-128	280	285	-.0010	-.1000
61	RL-128	285	290	-.0010	-.1000
62	P-97			.0310	.1500
63	RL-128	290	295	-.0010	-.1000
64	RL-128	295	300	-.0010	-.1000
65	RL-138	0	5	-.0010	-.1000
66	RL-138	5	10	-.0010	-.1000
67	RL-138	10	15	-.0010	-.1000
68	RL-138	15	20	-.0100	-.1000
69	RL-138	20	25	.0010	-.1000
70	RL-138	25	30	.0010	-.1000
71	RL-138	30	35	.0090	-.1000
72	RL-138	35	40	.0020	-.1000
73	RL-138	40	45	.0010	-.1000
74	RL-138	45	50	.0010	.1000
75	RL-138	50	55	.0170 ✓	-.1000
76	RL-138	55	60	.0030	-.1000
77	RL-138	60	65	.0070	-.1000
78	RL-138	65	70	.0060	-.1000
79	RL-138	70	75	.0170 ✓	-.1000
80	RL-138	75	80	.0050	-.1000
81	RL-138	80	85	.0120 ✓	-.1000
82	P-98			.0160	-.1000
83	RL-138	85	90	.0030	-.1000
84	RL-138	90	95	.0040	.1000
85	RL-138	95	100	.0030	-.1000
86	RL-138	100	105	.0030	-.1000
87	RL-138	105	110	.0030	-.1000
88	RL-138	110	115	.0040	.1500
89	RL-138	115	120	.0050	.1000
90	RL-138	120	125	.0090	.1700
91	RL-138	125	130	.0050	.1600
92	RL-138	130	135	.0030	.1100
93	RL-138	135	140	.0040	-.1000
94	RL-138	140	145	.0050	.2200
95	RL-138	145	150	.0050	.1200
96	RL-138	150	155	.0030	.1200
97	RL-138	155	160	.0020	-.1000
98	RL-138	160	165	.0020	-.1000
99	RL-138	165	170	.0020	-.1000
100	RL-138	170	175	.0020	-.1000

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NEVADA GSI, INC.

GEOCHEMICAL ANALYSIS REPORT

Job No.: LOAS8719

No.	Sample Id			Au opt	Ag opt
1	RL-128	557	562	.0010	.1500
2	P-52			.0300	.2300
3	RL-128	562	567	-.0010	.1800
4	RL-128	567	572	-.0010	.2000
5	RL-128	572	577	.0010	.1100
6	RL-128	577	580	.0010	-.1000
7	RL-128	580	585	-.0010	.1600
8	RL-128	585	590	-.0010	.1500
9	RL-128	590	595	-.0010	.1400
10	RL-128	595	600.5	-.0010	.1000
11	RL-128	600.5	605.5	.0010	.2000
12	RL-128	605.5	610.5	.0010	.1500
13	RL-128	610.5	615.5	-.0010	.1300
14	RL-128	615.5	621	.0020	.1000
15	RL-128	621	626	.0010	.2000
16	RL-128	626	631.5	.0010	.1500
17	RL-128	631.5	633.5	-.0010	.1500
18	RL-128	633.5	639.5	.0010	.2200
19	RL-128	639.5	644.5	-.0010	-.1000
20	RL-128	644.5	649	-.0010	-.1000
21	RL-128	649	656.5	-.0010	-.1000
22	P-54			.0730	.1000
23	RL-128	656.5	662	.0010	-.1000
24	RL-128	662	667	.0010	-.1000

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Summary CMW 11-90

Chips

RL-127

0 - 30 overburden

30 - 65 milky white f.g t, 'sugary', m-str argillized, I FeOx stain

65 - 115 pale dull grey-green fgt, sugary text, few white cpbg? ±pale gr clay phenos

115 - 145 med green sugary text lit - irreg white spots BVO?

145 - 300 dk green w/ irreg shaped white spots / frags - BVO lit

more clay alt'd at 150 - 160

RL-128 Chips Summary

0 - 20 overburden

20 ~ 70 f.gr. white or tan FeOx stained fgt, sugary text (choc?)

70 ~ 110 Mix f.gr. pale pink sugary fgt & blue-green & white lit chips

110 ~ 240 lt grey to lt grey - green granular fgt w/ ~3% tiny dk specks (choc? or RBUR?)

110 - some py & thin silica veins

170 - 190 somewhat silic? more angular chips, less clay

240 ~ 260 lit; med flesh matrix w/ pale green frags, irreg shapes

260 ~ 285 lit as above but matrix is dk grey-brown w/ lt gray irreg shaped frags / lapilli (fresher?)

285 - 300 lit, same as 240 - 260

RL 129 Summary

300 - 639.5 Lithic lap tuff / tuff bxa & flow banded tuff — equiv of RBURTON?

300 - 337.5	~ fresh llt
337.5 - 341	rubble / org
341 - 374	mod bleached llt, no veining
374 - 466	~ fresh banded & llt
466 - 502	mod bleached llt & banded tuff
502 - 521	rubbly & argillized & bx'd ¿ fault?
521 - 557	mod bleached llt & banded tuff
557 - 568	rubbly & bx'd ¿ fault?
568 - 590	mod bleached, mod veined (kaol, calc) f.gr. tuff
590 - 592	Str crackle bx'd / vein bx'd, w/ 'angel wing' calc
592 - 611	W-M bleached f gr. tuff w/ green stringers
611 - 612	Calcite vein
612 - 633.5	W-M bleached f.gr. tuff w/ M-S veining calc & green kaol
633.5 - 639.5	str crackle / vein bx'd, white calc matrix
639.5 - 650	Bxa / argillized fault zone (SRF)
650 - 677	Dozer