60001321

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-88, RL-88C
AUTHOR	K Kenner; R. Grondin; 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 Long Lac Minerals Exploration (Texas) Inc
COMMODITY If not obvious	gold silver
NOTES	Drill log; geology; assay; total depth 962' (both) handwritten notes 30p.

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-88

Rosebud

6000/321

6000 1321

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

DRILL LOG SUMMARY SHEET

PROJECT ROSEBUD

HOLE NUMBER RL-88 TOTAL DEPTH 962' LOGGED BY DAM

Date started May 7, 1990

Date completed May 10, 1990

Initial bearing S55°E

Initial inclination -53°

Elevation 5201.6

Collar coordinates:

N 2 204 068.0

E 481357.8

Contractor: COATES

Drill Type: UDR

Hole Size: RC 0-430';

Drilling Conditions: 465' Rc,

Footage: Wet / Dry

Comments:

Posted Geochem:
RC ø - 430'/KNT/8-14-90

DOWN HOLE SURVEY INFORMATION

FROM	TO	SURVEY POINT	INCLI-NATION	BEARING	X (Northing)	Y (Easting)	Z (Elevation)
0	50		-53	S 55 E			
50	200		-54	S 59 E			
200	405		-56	S 59 E			
405	604		-56	S 57 E			
604	801		-56	S 59 E			
801	932		-57	S 61 E			
932	962		-57	S 59 E			

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-88

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	O/T Au	Ag O/T	CHECK	
									Rusty Brown					Alluvium 0-20	.001	-.10		
05															.001	<		
10															.001	<		
15															<.001	<		
20									DK Purple					20-85 Purple Gray, Partially welded Fg Grained Granular Tuff w Local Green Mottling	<	<		
25															<	<		
30															<	<		
35															<	<		
40															<	<		
45															<	<		
50															<	<		
55															<	<		
60									Rusty Gray						<	<		
65									Purple						<	<		
70															<	<		
75															<	<		
80									Rusty Green						.002			
85									LT Green				1-2%	85-145 Light Green Fine Grain Tuff Granular Texture, Local Microbreccia w/ Oxidation Wk Bleach	.013	.10		
90															.003	<		
95															.001	<		
100																		

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DRILL HOLE RL-88

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	o/T Au	o/T Ag	CHECK	
		~							LT GREEN				1-2%		-.001	-.10		
05									LT ROSE						.002	<		
10															.005	<		
15									LT GREEN						.003	<		
20															-.001	<		
25															.001	<		
30															.001	<		
35									LT ROSE GREEN					LOCALLY FRACTURED	.001	<		
40									ROSE + PURPLE						.001	<		
45		~							PURPLE					145-190 DK PURPLE FINE GRAIN PARTIALLY WELDED TUFF & BLEACHED HORIZONS	<	<		
50															<	<		
55									LT GREEN						<	<		
60		~							BEIGE						<	<		
65		~							DK PURPLE						<	<		
70															<	<		
75															<	<		
80															<	.13		
85															<	.10		
90		~							LT GREEN				1%	190-245 WEAKLY BLEACHED WELDED TUFF & VERY FINE SULFIDES	.002	.19		
95									LT PINK						-.001	.25		
200																		

LAC MINERALS (U.S.A.) INC.
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DRILL HOLE RL-88

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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 O/T	Ag O/T	CHECK
		~							LT GREEN & PINK				+/- 1%		.001	.15	
205															.003	.24	
210															<.001	.12	
215															.002	.18	
220															.002	.21	
225															<.001	.16	
230															<	.11	
235															<	.13	
240															<	.14	
245		~							LT GREEN				<1%	245-430 WK-MOD BLEACHED FINE-MED GRAINED FRAGMENTAL LOCAL QTZ SULFIDE VEINING SULFIDES AND BLEACHING INCR. W DEPTH	<	<.10	
250															<	.18	
255															.001	.14	
260															<	<.10	
265															<	<	
270									LT ROSE						<	<	
275															<	<	
280															<	<	
285															<	<	
290															<	<	
295															<	<	
300																	

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

CHOCOLATE TUFF
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DOZER WELDED TUFF

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XK STOCKWORK QUARTZ
P P P PROPYLITIZATION
Ca CALCITE

V_{QS} = Qtz Sulfide Veins

DRILL HOLE RL-89

Page 4 of 5

LOGGED BY DAN

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au OIT	Ag OIT	CHECK	
		~							LT Rose				<1%		.002	.10		
305									↓				↓		<	<		
310									LT Pink				1-2%		<	<		
315															<	<		
320															.001	<		
325															<	<		
330															.003	<		
335															.001	<		
340															<	<		
345															.002	<		
350															.020	<		
355		V_{QS} AU												DRUZY QTZ - SULFIDE VEINS, LOCAL INCREASE IN SULFIDES, SOME CLAYS —	.01	<		
360															.013	<		
365									↓ LT Green				↓ 3-5%		.006	.12		
370									LT Rose						.007	<		
375													1-2%		.007	<		
380	SB														.004	.12		
385															.007	<		
390															.010	<		
395															.014	.24		
400		↓							↓				↓	↓				

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P P P PROPYLITIZATION
Ca CALCITE Vgs. Qtz. Sulfide Veins

DRILL HOLE RL-88

Page 5 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	
									POOR				1-3%		.052	<.10		
05															.003	<.10		
10															.006	<		
15		Vgs in													.002	<		
20															.012	.17		
25														T.D. = 430'	.002	.10		
T.D. = 430																		
35																		
40																		
45																		
50																		
55																		
60																		
65																		
70																		
75																		
80																		
85																		
90																		
95																		
00																		

LONG LAC MINERALS EXPL. (TEXAS) INC.

DRILL LOG SUMMARY SHEET

PROJECT ROSEBUD

HOLE NUMBER RL-88C TOTAL DEPTH 962' LOGGED BY KLK

Date started 5/7/90

Date completed 5/16?/90

Initial bearing S 55E

Initial inclination -53°

Elevation 5201.6

Collar coordinates:

N 2,204,068.0

E 481,357.8

Contractor COATES

Drill Type Universal - rotary / CORE

Hole Size HQ

Comments 0-430 RCD

430 - TD HQ

DOWN HOLE SURVEY INFORMATION

FROM	TO	SURVEY POINT	INCLI-NATION	BEARING	X (Easting)	Y (Northing)	Z (Elevation)
0	200	100	-54°	S59E			
200	404S	300	-56°	S59E			
404S	604S	509	-56°	S57E			
604S	801	700	-56°	S59E			
801	931	902	-57°	S61E			
931	962	962	-57°	S59E			

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	DESCRIPTION
430	100	65 / 91.0	±5-10° py vns	3-4% diss + VN + buck shot py		430' CORE BEGAN
	100					430 - 451.5 Peach, buff heterolithic tuff breccia matrix supported w/ fine grained volcanic moderate pervasive bleaching, moderately veined with $CaCO_3$ + pyrite + local clay and questionable sericite, fine dissem pyrite intermittent to pervasive w/in matrix; clasts w/ local buck shot pyrite
	99					
440			5° py VN			
	100					
			py vns / 30			430.1 - 431.3 large flow banded clast
450			35 / 70	±2% diss + VN py		451.5 - 455 possible fault zone, strongly broken and clay altered, local clay veins w/ poss marcasite blades
	100		70 fracture			
			75 / 50 py vns	1-2% diss + VN py		455 - 469 moderately well bleached pyroclastic weak hint pervasive grey w/ local touch of pink which increases w/ depth and is preferen. w/in matrix very weak veining w/ $CaCO_3$ ± pyrite, mod pervasive clay alt.
460						
	100					
470	100		25 $CaCO_3$ VN			469 - 490 mixed weak grey and pink pyroclastic, matrix supported w/ fine tuffaceous matrix w/ local fine micro breccia only trace of veining w/ $CaCO_3$ + py weak to mod pers. bleaching and clay alt
			75 / 10 stockwk vns			477.8 - 480 broken rubble, poss minor fault zone w/ 479 - 479.7 composed primarily of calcite
480	100					487.7 - 489 broken rubble w/ strong $CaCO_3$ composition
			$CaCO_3$ / 35 VN		$CaCO_3$	
490	100					

ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
430-435				.001	<
435-440				.004	<
440-445				.007	<
445-450				.003	<
450-455				.002	<
455-460				.02	<
460-465				<	<
465-470				<	<
470-475				<	<
475-480				<	<
480-485				<	<
485-490				<	<

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERAL-IZATION	GRAPHIC LOG	DESCRIPTION	Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
	100		25 CaCO3 VN	1-2% diss + VN py		490 - 555.8 matrix supported pyroclastic/heterolithic tuff - large clasts ranging predom 3" to 1/4" w/ fine grained volcanic matrix w/ local micro breccia, clasts are bleached white w/ local light green w/ mod strong pink/red matrix, fel local clasts bleached w/ fine dissem pyrite, very weak veining w/ pyrite ± CaCO3 ± clay fill	490-495				<	<
							495-500				<	<
500	100		CaCO3 + py 50				500-505				<	<
							505-510				<	<
510	100	40/40	25/ py VN			499-501 weak brecciation 512-514 predom flow banded tuff	510-515				<	<
							515-520				<	<
520	100		CaCO3 + py VNs 55/80				520-525				<	<
							525-530				<	<
530	100		55 35/ CaCO3 + clay VNs				530-535				<	<
							535-540				<	<
540	100		30/ frack				540-545				<	<
						550.5 - 553.5 Brecciated zone w/ poss weak silicification mod strong pyr veining w/ CaCO3 + pyrite ± clay fill predom sheeted plane @ 25° to core axis w/ micro breccia matrix ± CaCO3	545-550				<	<
550	100		frack 1/25 25 CaCO3 VN	2% diss + VN py ± 1% diss ± VN py		555.8 - 577.4 maroon matrix supported pyro-clastic bleached buff colored heterolithic frag w/ trace calcite veining, touch of green alt intermittently w/ in frags.	550-555				<	<
560	100		45/ CaCO3 VN				555-560				<	<

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	DESCRIPTION	Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
570	100	20/80	80 CaCO3 VNS	≤1% diss ±VNS py		560 - 577.4 maroon matrix supported pyroclastic continued w/ trace calcite veining relatively weakly to unalt.	560-565				<	<
	100						565-570				<	<
							570-575				<	<
580	90	70 clay VNS		±1% diss py		577.4 - 585 matrix supported heterolithic tuff to pyroclastic, lithics are bleached buff w/ hint of green, matrix is predom pink, weak hairline stockwork lt green wavy clay vns, weak pervasive bleaching throughout 583.5 - 584.5 strongly brecciated zone w/ strong clay; local calcite matrix fill strong perv. clay alt	575-580				<	<
	94		85 clay VNS				580-585				<	<
590	96		15/60 py CaCO3 VNS				585-590				<	<
							590-595				<	<
600	100		50 CaCO3 ±py VNS			585 - 606.8 lavender to maroon matrix w/ lt green buff fine grained tuff breccia weakly to moderately fracture veined w/ pyrite ±CaCO3; local clay fill appears poss. to be hydrobrecciated - subangular to subrounded	595-600				<	.10
							600-605				<	.14
610	100		60 clay py VNS	1-2% diss ±VNS py		606.8 - 616 light pink and hint green fine grained and locally flow banded tuff breccia, weakly to mod. perv. bleached weak to mod fracture veining w/ green (nontronite?) + pyrite ± $CaCO_3$ ± local clay fill perv. coarsely CLASTED	605-610				.001	<
			60/30 VNS				610-615				.002	.16
620	92		±5° 80 clay ±py VNS			616 - 638.5 Finely clasted heterolithic medium fine grained to flow banded tuff breccia mixed light to medium green + pink weakly veined w/ $CaCO_3$ + pyrite ± local clay	615-620				.001	<
							620-625				.001	.18
630	100						625-630				.001	<

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	DESCRIPTION	Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
	100			±2% diss +VN py		630-638.5 fine grained and flow banded tuff breccia (continued @ above)	630-635				<	<
			VN				635-640				.001	<
640	100		35 VN			638.5-650 mixed peach and green moderately bleached heterolithic tuff breccia, lithics are predom bleached w/ weak local green alt, matrix is predom purple w/ local fine micro brecciation, weak veining w/ $CaCO_3$ + pyrite ± local clay, local green chalcedonic matrix	640-645				.001	<
			±5°				645-650				<	<
650	100					650-685	650-655				.001	<
		60 ±10°	25 / 60 SiO2 + py VNS			Flow banded tuff, locally brecciated mixed peach, weak green + buff verigated moderately pervasively bleached moderate veining w/ $CaCO_3$ + pyrite + lr green wavy clay + local fine drusy qtz vns, locally composed of fine grained tuff, wk't bl w/ depth	655-660				.002	<
660	100						660-665				.001	<
		±10°	±5° 75 $CaCO_3$ VNS			652-656 weak ↑ drusy vuggy SiO2 + py + clay vns	665-670				.077	.37
670	100						670-675				.001	<
			5° 25 $CaCO_3$ VNS				675-680				.001	<
680	100		$CaCO_3$ VNS 40 35				680-685				.001	<
				2-3% diss +VN py		685-702 Pyroclastic - predom fine grained tuff clasts w/in fine grained volcanic matrix locally moderately pervasively bleached weakly veined w/ calcite + pyrite ± local clays clasts vary from 2" to .1" wide predom fine disem pyrite varies @ strong w/in specific clasts; elsewhere rich blooding w/in matrix	685-690				.002	<
690	97		45 VN				690-695				.002	<
700			60 $CaCO_3$ VN				695-700				.001	.12

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	DESCRIPTION
710	97 100	/15 flo	35 CaCO3 VNS STEW VNS, 5-10 Δ VNS	±2% diss +VN py	Δ Δ	702-720 mixed peach/maroon and lt. grey tuff, fine grained, weak local flow banding moderately bleached moderately veined w/ $CaCO_3$ + pyrite + local lt green soft waxy clay
720	100		35/ py VN	±3% diss +VN py	10" VOID	720-736 Well bleached fine grained to gran. tuff w/ strong pervasive argillic clay alteration and well bleached, mod to moderately strong veining w/ calcite + pyrite + clay ± siliceous fill through local nontronite alt, locally brecciated
730	88		35/ py nontron VN	4-5% diss +VN py		729-736 strongly broken rubble zone w/ strong clay alteration throughout w/ strong disseminated pyrite
740	80 100		5/ 45° py + clay VNS 5-10° py VNS	3% diss +VN py		736-825.7 Pervasively bleached fine to medium granular tuff, very weakly limonitic and green coloration local intermittent isolated SiO_2 flooding w/ local assoc concentrations of finely disseminated pyrite local increased clay alteration moderately to locally well veined w/ $CaCO_3$ + pyrite + clay + siliceous fill locally weak green rim
750	85		20° fract VN			
760	100 97		py VNS 5-20° 55° py VNS	3-4% diss +VN py		754-757 ↑ veining w/ local microbrecciation + local SiO_2 + pyrite flooding 757-769 more strong pervasive veining w/ assoc mineralization
770			py VNS 60 80°	±4% diss + VN py		769-774 ↑ bleaching + veining + local brecciation ↑ clay alt + mineralization

ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
700-705				<	<
705-710				.001	<
710-715				.001	.13
715-720				.001	.18
720-725				.021	.37
725-730				.025	.36
730-735				.022	.45
735-740				.017	.10
740-745				.017	.24
745-750				.09	.14
750-755				.20	.37
755-760				.35 .37	.61
760-765				.309 .292	.67
765-770				.64 .740	3.39

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	DESCRIPTION
	97		30/ py vn ±5 / 60	4% + diss + vn py		770-774 Grainy tuff w/ ↑ bl + veining + ↑ diss + vn py + ↑ clay alt (continued)
				2-3% diss + vn py		
780						774-792 ↓ veining w/ assoc. mineralization
	80		55 / py vn			
790						
	100		15 / 65 / py vns	±4% diss + vn py		792-825.7 moderate to mod strong veining w/ ↑ nontronite (chlorite)? alteration w/ local assoc sericite, pin pyrite + $CaCO_3$ + local clay alt. tuff → becoming finer grained with depth local breccia zones, coloration: buff-tan to hint grn
800			45 / vn 55			
	100					
810			30 / 85 / py vns			
	100					817-819 contains coarse calcite pyrite ± nontronite + lt grn waxy clay vns ± sericite up to 1 1/4" wide
820			30 / 35 / py / $CaCO_3$ vns			822.4-825.7 zone of ↑ brecciation w/ assoc w/ silicification
	98					
			40 / $CaCO_3$ vn	3% diss + vn py		827.5-829 Fault breccia, pulverized matrix of kaolinite clay, weak local silicification, local irreducible oxidized sulfide
830			$CaCO_3$ vn	2% diss to clot py	FAULT GOUGE	829-838 grn-nontronite alt clay gouge zone of poss fine clastic pyroclastic w/ local sulfide clots to local SO_2 + pyrite stains
	75					
840				±3% black clusted sulfides		838-840.5 Bleached white silicified to intensely clay altered brecciated tuff, pervasively sheared

SOUTH RIDGE FAULT GOUGE ZONE

ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
770-775				.192	1.89
775-780				.002	.15
780-785				.006	.15
785-790				.005	.19
790-795				.012	2.11
795-800				.105	7.11
800-805				.124	2.17
805-810				.069	1.84
810-815				.084	1.24
815-820				.54 / .635	9.01
820-825.7				.058	2.23
825.7-830				.021	1.03
830-834				.004	<
834-840				.005	.19

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG
	60		75 clay VN; 20 py VN	2-3% diss + VN py	
850			30 / 50 py VNS	±2% diss + VN py	
860			20 SiO2 + py VNS		
				@ 3%	50° / 70°
870			50 / 10 CaCO3 + py VNS	2-3% diss + VN py	
880			75 py VNS; 15		
890			py VN; 30° / SiO2 VNS		
			85° VN		
900			35° / py VN		
			75 SiO2 VN		
910					

DESCRIPTION

840.5 - 962 DOZER TUFF

840.5 - 847.3 Intensely fried - bleached and strong clay altered grainy tuff, intensely brecciated, moderately finely veined w/ pyrite clay + sericite + $CaCO_3$ fill, local white clay + finely bleached sulfide + drusy qtz vns

847.3 - 886
Dense fine grained tuff bleached white w/ light gray, strongly pervasively silicified, with pervasive weak to mod fine stockwork vns of $CaCO_3$ ± SiO_2 + pyrite w/ local black matrix microbreccia veins (@ 854') local clusters of finely dissem pyrite

847.3 - 864 pervasively silicified - chalcedonic w/ intermittent clusters and laminae of pyrite concentrations

864 - 867 brecciated tuff w/ ↑ clay alt and local $CaCO_3$ fill, - pvs. clast supported

867 - 886 silicification becoming more intermittent ↓ pvs. expressing as more laminated seams

886 - 895.4 strongly bleached, sericite altered possible fault zone, more strong pervasive argillic alt w/ local fault gouge local black matrix breccia seams ~ 895.5'

895.4 - 905
Densely welded very fine grained tuff w/ intermittent veinlet and cluster SiO_2 + fine dissem pyrite blooding traces local black matrix + strong clay breccia vns ~ 902.4'

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
840-845				.006	.18
845-850				.001	<
850-855				.001	<
855-860				<	.10
860-865				<	<
865-867				.004	<
867-870				<	<
870-875				<	<
875-880				<	<
880-885				.003	<
885-890				.002	<
890-895				.006	<
895-900				.001	<
900-905				.001	<
905-910				.001	<

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	DESCRIPTION	ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
			40/20 fine stbwk VNS	2-3% diss + VN py		910-962 DOZER TUFF (CONTINUED)	910-915				.001	<
							915-920				<	<
920			25 py VNS			923.7-925.3 zone of strong vuggy drusy qtz vns w/ gray clay w/ fine disseminated vein pyrite + white silicate alt + beautiful *zoned barite	920-925				.003	<
			35 / 55 tr py VNS	±3% d+v py ±2% diss + VN + buck shot py			925-930				.001	<
930						930-942 zone of strong intermittent brecciation - predom clast supported w/ local $CaCO_3$ matrix fill, moderately to strongly fractured w/ $CaCO_3$ + pyrite + orange ± chlorite alt.	930-935				.001	<
			60 / 65 $CaCO_3$ + py VNS				935-940				.001	<
940			15 / $CaCO_3$ py VNS				940-945				.002	<
						942 to T.D. bleached & Dozer w/ moderate fracturing w/ $CaCO_3$ + silicate + pyrite ± chl(?) + orange alt. fill, few micro breccia vns weak pyr fine disseminated + vein + buckshot clusters pyrite	945-950				<	<
950			45 / 55 $CaCO_3$ VNS				950-955				<	<
			±50 / 60 $CaCO_3$ + py VNS				955-960				<	<
960 / 962						962' T.D.	960-962				.002	<

RL-88

STAGE RECOVERY	% Recovery	Sample Interval
430 - 432	100% +	430 - 435
432 - 434	100%	435 - 440
434 - 442	99%	440 - 445
442 - 452	100% +	445 - 450
452 - 462	100% +	450 - 455
462 - 468.5	100% +	455 - 460
468.5 - 479	100%	460 - 465
479 - 489	100% +	465 - 470
489 - 499	100%	470 - 475
499 - 509	100%	475 - 480
509 - 519	100% +	480 - 485
519 - 529	100% +	485 - 490
529 - 539	100% +	490 - 495
539 - 549	100% +	495 - 500
549 - 559	100%	500 - 505
559 - 569	~~50~~ 100%	505 - 510
569 - 579	100% +	515 - 520
579 - 581	1.8/2	520 - 525
581 - 591	94%	525 - 530
591 - 601	96%	530 - 535
601 - 611	100% +	535 - 540
611 -	9.4 -	540 - 545
		545 - 555
		555 - 560
		560 - 565
		565 - 570
		570 - 575
		575 - 580
		580 - 585
		585 - 590
		590 - 595
		595 - 600
		600 - 605
		605 - 610
		610 - 615
		615 - 620
		620 - 625

LITHOLOGY

* the 1st photo 438 - 446 maybe 446 - 456 the 2nd 438-446 is correct

430 - 431.5
Buff + peach FGT

431.5 - 451.5
*peach + wk green bl fragmental pyroc (breccia?)

451.5 - 455 intermitt. gouge zone w/ in bl tuff + pyro.

455 - 468.5
well bleached pyroc

468.5 - 483
bleached pyro w/ red matrix

483 - 490
Bleached pyro

490 - 556
very peach possible tuff breccia
hetero lithic

556 - 577.4
maroon tuff breccia

577.4 - 585
peach tuff Dia

585 - 601
peach to lavender FGT breccia

601 - 616
maroon - bl flowbanded tuff breccia

616 - 638
Finer clasted FGT ± flowb tuff - breccia
local wk qumalt

DL-88

Footage Recovery	% Recovery	Sample Interval	LITHOLOGY
611-621.5	100%	625-630	638-650
621.5-628.5	6.4/7.0	630-635	Lr peach, bleached tuff breccia local green chalcedony matrix (wk)
628.5-638.5	100%+	635-640	
638.5-648.5	100%+	640-645	
648.5-658.5	100%	645-650	650-685
658.5-669	100%	650-655	Flowbanded tuff locally brecciated peach, lt to gray + bu-
669-679	100%	655-660	
679-	(6.0)	660-665	
		665-670	
		670-675	
		675-680	
		680-685	

		845-850	831.3 844 gouge zone
850-860.5	98%	850-855	845-886
860.5-871	10.2/10.5	855-860	Bleached to gray
871-881	100%	860-865	Dones
881-891.5	10.2/10.5	865-867	locally sliated
(4.7')		867-870	(865-867
		870-875	
		875-880	
891.5-902	97%	880-885	886-895.4
902-908	100%	885-890	be very alt
908-917	100%	890-895	fault gouge zone
(5.8')		895-900	
		900-905	895.4-
917-927	99%	905-910	Bleached fracture
927-931	100%	910-915	Dones
931-941	99%	915-920	w/ pyrite local
941-951.5	100% 10.5/10.5	920-925	drusy qtz 1wh
951.5-959.5	7.5/8.0		day + gouge
959.5-962	2.7/2.5		FIK

RL-88

Footage Recovery	% Recovery	Sample Interval	Lithology
679-689	100%	685-690	685-702 FGT Alt pur. bleached w/ fine disseminated py
689-710	20.4/21'	690-695	
710-721	10.8/10'	695-700	
721-727	100%	700-705	
727-732	4.4'/5'	705-710	702-720 FGT peach; purple maroon
732-738.5	5.6'/6.5'	710-715 715-720	
		720-725 725-730	
		730-735	
		735-740	
		740-745	720-732 FGT argillic clay alt w/ local well busted zone
		745-750	
		750-755	
		755-760	
		760-765	
		~~765-770~~	
		770-775	
		775-780	
		780-785	
(5.6')		785-790	
738.5-748.5	100%	790-795	732-825.7 Pinto + green FGT mod fractured w/ white ± green clay pyrite local Alation 734.5-736 well broken w/ clay gouge
748.5-756	6.4/7.5	795-800	
756-762	100%	800-805	
762-772	97%	805-810	
772-782	100%	810-815	
782-792	80%	815-820	
(3.7')		820-825.7	
792-802	100%	825.7-830	
802-812	100%		
812-822	100%		
822-832	98%	830-834	825.7-831.3 South Ridge Fault Alt zone
832-840	6'/8'	834-840	
840-850	60%	840-845	831.3-844 South Ridge fault gouge zone

ELK ID
ANT GARY
SHP S NV
DE A+D

962

825 SRF
844

860-895 FAULT

GS1-72

	SAMPLE I.D.			Au o/t	Ag o/t
166	RL-87	625	630	-0.001	-0.10
167	RL-87	630	635	-0.001	-0.10
168	RL-87	635	640	-0.001	-0.10
169	RL-87	640	645	-0.001	-0.10
170	RL-87	645	650	-0.001	-0.10
171	RL-87	650	655	-0.001	-0.10
172	RL-87	655	660	-0.001	-0.10
173	RL-87	660	665	-0.001	-0.10
174	RL-87	665	670	-0.001	-0.10
175	RL-87	670	675	-0.001	-0.10
176	RL-87	675	680	-0.001	-0.10
177	RL-87	680	685	-0.001	-0.10
178	RL-87	685	690	-0.001	-0.10
179	RL-87	690	695	-0.001	-0.10
180	RL-87	695	700	-0.001	-0.10
181	RL-87	700	705	0.005	-0.10
182	RL-87	705	710	-0.001	-0.10
183	RL-87	710	715	-0.001	-0.10
184	RL-87	715	720	0.001	-0.10
185	RL-87	720	725	-0.001	-0.10
186	RL-87	725	730	-0.001	0.55
187	RL-87	730	735	-0.001	-0.10
188	RL-87	735	740	-0.001	-0.10
189	RL-87	740	745	-0.001	-0.10
190	RL-87	745	750	-0.001	0.12
191	RL-87	750	755	-0.001	-0.10
192	RL-87	755	760	-0.001	-0.10
193	RL-87	760	765	-0.001	-0.10
194	RL-87	765	770	-0.001	-0.10
195	RL-87	770	775	-0.001	-0.10
196	RL-87	775	780	-0.001	-0.10
197	RL-87	780	785	-0.001	-0.10
198	RL-87	785	790	-0.001	-0.10
199	RL-87	790	795	-0.001	-0.10
200	RL-87	795	800	-0.001	-0.10
201	RL-87	800	805	-0.001	-0.10
202	RL-87	805	810	-0.001	-0.10
203	RL-87	810	815	-0.001	-0.10
204	RL-87	815	820	-0.001	-0.10
205	RL-87	820	825	-0.001	-0.10
206	RL-87	825	830	-0.001	-0.10
207	RL-87	830	835	-0.001	-0.10
208	RL-87	835	840	-0.001	-0.10
209	RL-87	840	845	-0.001	-0.10
210	RL-88	0	5	0.001	-0.10

	SAMPLE I.D.			Au o/t	Ag o/t
211	RL-88	5	10	0.001	-0.10
212	RL-88	10	15	0.001	-0.10
213	RL-88	15	20	-0.001	-0.10
214	RL-88	20	25	-0.001	-0.10
215	RL-88	25	30	-0.001	-0.10
216	RL-88	30	35	-0.001	-0.10
217	RL-88	35	40	-0.001	-0.10
218	RL-88	40	45	-0.001	-0.10
219	RL-88	45	50	-0.001	-0.10
220	RL-88	50	55	-0.001	-0.10
221	RL-88	55	60	-0.001	-0.10
222	RL-88	60	65	-0.001	-0.10
223	RL-88	65	70	-0.001	-0.10
224	RL-88	70	75	-0.001	-0.10
225	RL-88	75	80	-0.001	-0.10
226	RL-88	80	85	0.002	-0.10
227	RL-88	85	90	0.013	0.10
228	RL-88	90	95	0.003	-0.10
229	RL-88	95	100	0.001	-0.10
230	RL-88	100	105	-0.001	-0.10
231	RL-88	105	110	0.002	-0.10
232	RL-88	110	115	0.005	-0.10
233	RL-88	115	120	0.003	-0.10
234	RL-88	120	125	-0.001	-0.10
235	RL-88	125	130	0.001	-0.10
236	RL-88	130	135	0.001	-0.10
237	RL-88	135	140	0.001	-0.10
238	RL-88	140	145	0.001	-0.10
239	RL-88	145	150	-0.001	-0.10
240	RL-88	150	155	-0.001	-0.10
241	RL-88	155	160	-0.001	-0.10
242	RL-88	160	165	-0.001	-0.10
243	RL-88	165	170	-0.001	-0.10
244	RL-88	170	175	-0.001	-0.10
245	RL-88	175	180	-0.001	-0.10
246	RL-88	180	185	-0.001	0.13
247	RL-88	185	190	-0.001	0.10
248	RL-88	190	195	0.002	0.19
249	RL-88	195	200	-0.001	0.25
250	RL-88	200	205	0.001	0.15
251	RL-88	205	210	0.003	0.24
252	RL-88	210	215	-0.001	0.12
253	RL-88	215	220	0.002	0.18
254	RL-88	220	225	0.002	0.21
255	RL-88	225	230	-0.001	0.16

	SAMPLE I.D.			Au o/t	Ag o/t
256	RL-88	230	235	-0.001	0.11
257	RL-88	235	240	-0.001	0.13
258	RL-88	240	245	-0.001	0.14
259	RL-88	245	250	-0.001	-0.10
260	RL-88	250	255	-0.001	0.18
261	RL-88	255	260	0.001	0.14
262	RL-88	260	265	-0.001	-0.10
263	RL-88	265	270	-0.001	-0.10
264	RL-88	270	275	-0.001	-0.10
265	RL-88	275	280	-0.001	-0.10
266	RL-88	280	285	-0.001	-0.10
267	RL-88	285	290	-0.001	-0.10
268	RL-88	290	295	-0.001	-0.10
269	RL-88	295	300	-0.001	-0.10
270	RL-88	300	305	0.002	-0.10
271	RL-88	305	310	-0.001	-0.10
272	RL-88	310	315	-0.001	-0.10
273	RL-88	315	320	-0.001	-0.10
274	RL-88	320	325	0.001	-0.10
275	RL-88	325	330	-0.001	-0.10
276	RL-88	330	335	0.003	-0.10
277	RL-88	335	340	0.001	-0.10
278	RL-88	340	345	-0.001	-0.10
279	RL-88	345	350	0.002	-0.10
280	RL-88	350	355	0.020	-0.10
281	RL-88	355	360	0.010	-0.10
282	RL-88	360	365	0.013	-0.10
283	RL-88	365	370	0.006	0.12
284	RL-88	370	375	0.007	-0.10
285	RL-88	375	380	0.007	-0.10
286	RL-88	380	385	0.004	0.12
287	RL-88	385	390	0.007	-0.10
288	RL-88	390	395	0.010	-0.10
289	RL-88	395	400	0.014	0.24
290	RL-88	400	405	0.052	-0.10

	SAMPLE I.D.			Au o/t	Ag o/t
291	RL-88	405	410	0.003	-0.10
292	RL-88	410	415	0.006	-0.10
293	RL-88	415	420	0.002	-0.10
294	RL-88	420	425	0.012	0.17
295	RL-88	425	430	0.002	0.10

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THIS REPORT REVIEWED AND APPROVED BY:

Richard A. Grondin

RICHARD GRONDIN, LABORATORY MANAGER

G51-7233

	SAMPLE I.D.			Au o/t	Ag o/t
166	RL-87	625	630	-0.001	-0.10
167	RL-87	630	635	-0.001	-0.10
168	RL-87	635	640	-0.001	-0.10
169	RL-87	640	645	-0.001	-0.10
170	RL-87	645	650	-0.001	-0.10
171	RL-87	650	655	-0.001	-0.10
172	RL-87	655	660	-0.001	-0.10
173	RL-87	660	665	-0.001	-0.10
174	RL-87	665	670	-0.001	-0.10
175	RL-87	670	675	-0.001	-0.10
176	RL-87	675	680	-0.001	-0.10
177	RL-87	680	685	-0.001	-0.10
178	RL-87	685	690	-0.001	-0.10
179	RL-87	690	695	-0.001	-0.10
180	RL-87	695	700	-0.001	-0.10
181	RL-87	700	705	0.005	-0.10
182	RL-87	705	710	-0.001	-0.10
183	RL-87	710	715	-0.001	-0.10
184	RL-87	715	720	0.001	-0.10
185	RL-87	720	725	-0.001	-0.10
186	RL-87	725	730	-0.001	0.55
187	RL-87	730	735	-0.001	-0.10
188	RL-87	735	740	-0.001	-0.10
189	RL-87	740	745	-0.001	-0.10
190	RL-87	745	750	-0.001	0.12
191	RL-87	750	755	-0.001	-0.10
192	RL-87	755	760	-0.001	-0.10
193	RL-87	760	765	-0.001	-0.10
194	RL-87	765	770	-0.001	-0.10
195	RL-87	770	775	-0.001	-0.10
196	RL-87	775	780	-0.001	-0.10
197	RL-87	780	785	-0.001	-0.10
198	RL-87	785	790	-0.001	-0.10
199	RL-87	790	795	-0.001	-0.10
200	RL-87	795	800	-0.001	-0.10
201	RL-87	800	805	-0.001	-0.10
202	RL-87	805	810	-0.001	-0.10
203	RL-87	810	815	-0.001	-0.10
204	RL-87	815	820	-0.001	-0.10
205	RL-87	820	825	-0.001	-0.10
206	RL-87	825	830	-0.001	-0.10
207	RL-87	830	835	-0.001	-0.10
208	RL-87	835	840	-0.001	-0.10
209	RL-87	840	845	-0.001	-0.10
210	RL-88	0	5	0.001	-0.10

	SAMPLE I.D.			Au o/t	Ag o/t
211	RL-88	5	10	0.001	-0.10
212	RL-88	10	15	0.001	-0.10
213	RL-88	15	20	-0.001	-0.10
214	RL-88	20	25	-0.001	-0.10
215	RL-88	25	30	-0.001	-0.10
216	RL-88	30	35	-0.001	-0.10
217	RL-88	35	40	-0.001	-0.10
218	RL-88	40	45	-0.001	-0.10
219	RL-88	45	50	-0.001	-0.10
220	RL-88	50	55	-0.001	-0.10
221	RL-88	55	60	-0.001	-0.10
222	RL-88	60	65	-0.001	-0.10
223	RL-88	65	70	-0.001	-0.10
224	RL-88	70	75	-0.001	-0.10
225	RL-88	75	80	-0.001	-0.10
226	RL-88	80	85	0.002	-0.10
227	RL-88	85	90	0.013	0.10
228	RL-88	90	95	0.003	-0.10
229	RL-88	95	100	0.001	-0.10
230	RL-88	100	105	-0.001	-0.10
231	RL-88	105	110	0.002	-0.10
232	RL-88	110	115	0.005	-0.10
233	RL-88	115	120	0.003	-0.10
234	RL-88	120	125	-0.001	-0.10
235	RL-88	125	130	0.001	-0.10
236	RL-88	130	135	0.001	-0.10
237	RL-88	135	140	0.001	-0.10
238	RL-88	140	145	0.001	-0.10
239	RL-88	145	150	-0.001	-0.10
240	RL-88	150	155	-0.001	-0.10
241	RL-88	155	160	-0.001	-0.10
242	RL-88	160	165	-0.001	-0.10
243	RL-88	165	170	-0.001	-0.10
244	RL-88	170	175	-0.001	-0.10
245	RL-88	175	180	-0.001	-0.10
246	RL-88	180	185	-0.001	0.13
247	RL-88	185	190	-0.001	0.10
248	RL-88	190	195	0.002	0.19
249	RL-88	195	200	-0.001	0.25
250	RL-88	200	205	0.001	0.15
251	RL-88	205	210	0.003	0.24
252	RL-88	210	215	-0.001	0.12
253	RL-88	215	220	0.002	0.18
254	RL-88	220	225	0.002	0.21
255	RL-88	225	230	-0.001	0.16

	SAMPLE I.D.			Au o/t	Ag o/t
256	RL-88	230	235	-0.001	0.11
257	RL-88	235	240	-0.001	0.13
258	RL-88	240	245	-0.001	0.14
259	RL-88	245	250	-0.001	-0.10
260	RL-88	250	255	-0.001	0.18
261	RL-88	255	260	0.001	0.14
262	RL-88	260	265	-0.001	-0.10
263	RL-88	265	270	-0.001	-0.10
264	RL-88	270	275	-0.001	-0.10
265	RL-88	275	280	-0.001	-0.10
266	RL-88	280	285	-0.001	-0.10
267	RL-88	285	290	-0.001	-0.10
268	RL-88	290	295	-0.001	-0.10
269	RL-88	295	300	-0.001	-0.10
270	RL-88	300	305	0.002	-0.10
271	RL-88	305	310	-0.001	-0.10
272	RL-88	310	315	-0.001	-0.10
273	RL-88	315	320	-0.001	-0.10
274	RL-88	320	325	0.001	-0.10
275	RL-88	325	330	-0.001	-0.10
276	RL-88	330	335	0.003	-0.10
277	RL-88	335	340	0.001	-0.10
278	RL-88	340	345	-0.001	-0.10
279	RL-88	345	350	0.002	-0.10
280	RL-88	350	355	0.020	-0.10
281	RL-88	355	360	0.010	-0.10
282	RL-88	360	365	0.013	-0.10
283	RL-88	365	370	0.006	0.12
284	RL-88	370	375	0.007	-0.10
285	RL-88	375	380	0.007	-0.10
286	RL-88	380	385	0.004	0.12
287	RL-88	385	390	0.007	-0.10
288	RL-88	390	395	0.010	-0.10
289	RL-88	395	400	0.014	0.24
290	RL-88	400	405	0.052	-0.10

	SAMPLE I.D.			Au o/t	Ag o/t
291	RL-88	405	410	0.003	-0.10
292	RL-88	410	415	0.006	-0.10
293	RL-88	415	420	0.002	-0.10
294	RL-88	420	425	0.012	0.17
295	RL-88	425	430	0.002	0.10

THIS REPORT REVIEWED AND APPROVED BY:

Richard A. Grondin

RICHARD GRONDIN, LABORATORY MANAGER

NEVADA GSI

JUN 21 1990

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GEOCHEMICAL ANALYSIS REPORT

June 19, 1990

CUST. CODE: LOA
PROJECT: URBD
P.O. #: XXXX
LOT ID: 7361

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

	SAMPLE I.D.			Au o/t	Ag o/t	Checks Au o/t
1.	RL-88C	430	435	0.001	-0.10	-
2.	RL-88C	435	440	0.004	-0.10	-
3.	RL-88C	440	445	0.007	-0.10	-
4.	RL-88C	445	450	0.003	-0.10	-
5.	RL-88C	450	455	0.002	-0.10	-
6.	RL-88C	455	460	0.020	-0.10	-
7.	RL-88C	460	465	-0.001	-0.10	-
8.	RL-88C	465	470	-0.001	-0.10	-
9.	RL-88C	470	475	-0.001	-0.10	-
10.	RL-88C	475	480	-0.001	-0.10	-
11.	RL-88C	480	485	-0.001	-0.10	-
12.	RL-88C	485	490	-0.001	-0.10	-
13.	RL-88C	490	495	-0.001	-0.10	-
14.	RL-88C	495	500	-0.001	-0.10	-
15.	RL-88C	500	505	-0.001	-0.10	-
16.	RL-88C	505	510	-0.001	-0.10	-
17.	RL-88C	510	515	-0.001	-0.10	-
18.	RL-88C	515	520	-0.001	-0.10	-
19.	RL-88C	520	525	-0.001	-0.10	-
20.	RL-88C	525	530	-0.001	-0.10	-
21.	RL-88C	530	535	-0.001	-0.10	-
22.	RL-88C	535	540	-0.001	-0.10	-
23.	RL-88C	540	545	-0.001	-0.10	-
24.	RL-88C	545	550	-0.001	-0.10	-
25.	RL-88C	550	555	-0.001	-0.10	-
26.	RL-88C	555	560	-0.001	-0.10	-
27.	RL-88C	560	565	-0.001	-0.10	-
28.	RL-88C	565	570	-0.001	-0.10	-
29.	RL-88C	570	575	-0.001	-0.10	-
30.	RL-88C	575	580	-0.001	-0.10	-

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	SAMPLE I.D.				Au o/t	Ag o/t	Checks Au o/t
31.	RL-88C	580	585		-0.001	-0.10	-
32.	RL-88C	585	590		-0.001	-0.10	-
33.	RL-88C	590	595		-0.001	-0.10	-
34.	RL-88C	595	600		-0.001	0.10	-
35.	RL-88C	600	605		-0.001	0.14	-
36.	RL-88C	605	610		0.001	-0.10	-
37.	RL-88C	610	615		0.002	0.16	-
38.	RL-88C	615	620		0.001	-0.10	-
39.	RL-88C	620	625		0.001	0.18	-
40.	RL-88C	625	630		0.001	-0.10	-
41.	RL-88C	630	635		-0.001	-0.10	-
42.	RL-88C	635	640		0.001	-0.10	-
43.	RL-88C	640	645		0.001	-0.10	-
44.	RL-88C	645	650		-0.001	0.14	-
45.	RL-88C	655	660	A	0.001	-0.10	-
46.	RL-88C	655	660	B	0.002	-0.10	-
47.	RL-88C	660	665		0.001	-0.10	-
48.	RL-88C	665	670		0.077	0.37	-
49.	RL-88C	670	675		0.001	-0.10	-
50.	RL-88C	675	680		0.001	-0.10	-
51.	RL-88C	680	685		0.001	-0.10	-
52.	RL-88C	685	690		0.002	-0.10	-
53.	RL-88C	690	695		0.002	-0.10	-
54.	RL-88C	695	700		0.001	0.12	-
55.	RL-88C	700	705		-0.001	-0.10	-
56.	RL-88C	705	710		0.001	-0.10	-
57.	RL-88C	710	715		0.001	0.13	-
58.	RL-88C	715	720		0.001	0.18	-
59.	RL-88C	720	725		0.021	0.37	-
60.	RL-88C	725	730		0.025	0.36	-
61.	RL-88C	730	735		0.022	0.45	-
62.	RL-88C	735	740		0.017	0.10	-
63.	RL-88C	740	745		0.017	0.24	-
64.	RL-88C	745	750		0.090	0.14	-
65.	RL-88C	750	755		0.200	0.37	-
66.	RL-88C	755	760		0.350	0.61	0.370
67.	RL-88C	760	765		0.309	0.67	0.292
68.	RL-88C	765	770		0.640	3.39	0.740
69.	RL-88C	770	775		0.192	1.89	-
70.	RL-88C	775	780		0.002	0.15	-
71.	RL-88C	780	785		0.006	0.15	-
72.	RL-88C	785	790		0.005	0.19	-
73.	RL-88C	790	795		0.012	2.11	-
74.	RL-88C	795	800		0.100	7.11	-
75.	RL-88C	800	805		0.124	2.17	-

	SAMPLE I.D.			Au o/t	Ag o/t	Checks Au o/t
76.	RL-88C	805	810	0.069	1.84	–
77.	RL-88C	810	815	0.084	1.24	–
78.	RL-88C	815	820	0.540	9.01	0.635
79.	RL-88C	820	825.7	0.058	2.23	–
80.	RL-88C	825.7	830	0.021	1.03	–
81.	RL-88C	830	834	0.004	-0.10	–
82.	RL-88C	834	840	0.005	0.19	–
83.	RL-88C	840	845	0.006	0.18	–
84.	RL-88C	845	850	0.001	-0.10	–
85.	RL-88C	850	855	0.001	-0.10	–
86.	RL-88C	855	860	-0.001	0.10	–
87.	RL-88C	860	865	-0.001	-0.10	–
88.	RL-88C	865	867	0.004	-0.10	–
89.	RL-88C	867	870	-0.001	-0.10	–
90.	RL-88C	870	875	-0.001	-0.10	–
91.	RL-88C	875	880	-0.001	-0.10	–
92.	RL-88C	880	885	0.003	-0.10	–
93.	RL-88C	885	890	0.002	-0.10	–
94.	RL-88C	890	895	0.006	-0.10	–
95.	RL-88C	895	900	0.001	-0.10	–
96.	RL-88C	900	905	0.001	-0.10	–
97.	RL-88C	905	910	0.001	-0.10	–
98.	RL-88C	910	915	0.001	-0.10	–
99.	RL-88C	915	920	-0.001	-0.10	–
100.	RL-88C	920	925	0.003	-0.10	–
101.	RL-88C	925	930	0.001	-0.10	–
102.	RL-88C	930	935	0.001	-0.10	–
103.	RL-88C	935	940	0.001	-0.10	–
104.	RL-88C	940	945	0.002	-0.10	–
105.	RL-88C	945	950	-0.001	-0.10	–
106.	RL-88C	950	955	-0.001	-0.10	–
107.	RL-88C	955	960	-0.001	-0.10	–
108.	RL-88C	960	962	0.002	-0.10	–
109.	C	2656	–	0.003	-0.10	–
110.	C	2657	–	0.010	-0.10	–
111.	C	2658	–	0.027	-0.10	–

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Richard A. Grondin

RICHARD GRONDIN, LABORATORY MANAGER

LOG SUMMARY RL-88

ROTARY: 0 - 20 overburden
20-85 purple grey FGT
85-145 FGT lt green local Δ weak ox
145-190 purple-dk FGT w/ bl zones
190-245 weakly bl FGT
245-430 volc. bxa vs LLP (prob. w/in LBT)
245-270 Flesh+Grn 355-430 +++py ± local clay
270-310 mostly flesh 270-275 Flesh FGT (1+ bl grn) 420-425 str py
260-270 FGT (w) 300-310 Flesh FGT 310-365 ↑bl (buff to fl)
365-430 flesh matrix w/ bl clasts

CORE: 430-451.5 peach; buff volc. bxa
451.5-455 FAULT rubble + clay alt
455-490 bl lithic lapilli vs bxa tuff
455-469 ↑bl
469-490 green; peach
477.8-480 Rubble w/in 7" calcite VN
minor fault
487.7-489 rubble w/ strong $CaCO_3$
490-555.8 Volc. bxa gren clast, pnk matrix
499-501 wk Δ
512-514 flowbanding
550.5-553.5 Δ wkx 25° to axis
555.8-577.4 maroon matrix pyro tuff Δ - AUTO BRECCIATED*
577.4-685 FGT w/ chaotic blocks - brecciated to local flow banding
583.5-584.5 Δ + clay; $CaCO_3$ matrix
585-606.8 maroon matrix
606.8-616 auto Δ flow bd tuff Volc bxa
616-638.5 FG to flo tuff auto Δ
638.5-650 Peach; grn auto Δ TF
650-685 auto Δ flow bd TF
685-702 Lithic Lapilli vs volc bxa*
702-827.5 FGT bl (local hnt pink + grn)
702-720 peach maroon hr grn ± flo bd
720-736 ↑bl + clay
729-736 Rubble w/ clay (str.)
736-825.7 bl hnt pnk + grn
754-757 ↑vning
757-769 str. vning
769-774 ↑bl, vning, clay + local Δ

774 - 792 ↓ veining ∴ ↓ mineralization
792 - 825.7 mod to str veining
817 - 819 coarse $CaCO_3$ + py + grun
822.4 - 825.7 ↑ Δ w/ wk ↑ X

* FAULT 827.5 - 840.5 Breccia
827.5 - 829 clay rehealer local silin.
829 - 838 grn clay gouge
838 - 840.5 white bl X to clay alt

840.5 - 962 Dogger welded FGT
840.5 - 847.3 fried Bl + str clay
847.3 - 864 XX
864 - 867 Δ ↑ clay alt local $CaCO_3$ fill
867 - 886 ↓ perv silin - more intermittent
886 - 895.4 ↑ bl poss. fault
str. perv. clay ± gouge
895.5 black matrix
923.7 - 925.3 str. ++ w/ gray clay + barite
930 - 942 intermitt Δ $CaCO_3$ fill