60001651

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-273
AUTHOR	R. Stoeberi; T. Kuhl; P. Graff
DATE OF DOC(S)	1992
MULTI_DIST Y / N? Additional Dist_Nos:	
QUAD_NAME	Sulphur 7.5'
P_M_C_NAME (mine, claim & company names)	Rosebud Mine; Rosebud Project; Stevens Drilling; Lac Minerals (USA) Inc Barringer Laboratories Inc
COMMODITY If not obvious	gold silver
NOTES	Drill log; geology; assay; total depth 700' handwritten notes; directional survey ~~Dp.~~ 19

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 6/3/08
Initials Date
DB: mah
Initials Date
SCANNED: NV Blue
Initials Date

Revised: 1/22/08

ROSEBUD RL-273
DRILL LOG

60001651 4010

6000 1651

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

DRILL LOG SUMMARY SHEET

PROJECT Rosebud

HOLE NUMBER RL 273 TOTAL DEPTH 700' LOGGED BY RKS

Date started 4/20/92

Date completed 4/22/92

Initial bearing S55°E

Initial inclination -60°

Elevation

Collar coordinates:

N

E

Contractor: Stevens

Drill Type: RC

Hole Size: 5½

Drilling Conditions: Good

Footage: Wet / Dry 0 - 400 Dry

400 - 700 Wet

Comments: Could not pull all the casing out: left in ~28 ft.

DOWN HOLE SURVEY INFORMATION

FROM	TO	SURVEY POINT	INCLI-NATION	BEARING	X (Northing)	Y (Easting)	Z (Elevation)

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-273

Page 1 of 7

LOGGED BY RKS

move to site 9:00 am to 10:30 fix and repair rig and cables

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	% WASH RECOV.
			Bleach															
									Brn Brn-org org red					OB Qal				
05																		
10																		
15																		
20																		
25																		
?									Brn-red Purp.				0	? Bed rock? Brn-red to Purp Ct				
30														Ct				
35									wht org yllw brn					Sharp Δ in alt & color				
														Set casing start 11:25 am to 1:00 pm				
40																		
45																		
50																		
									wht yllw org lt Green									
55																		
60																		
65																		
70																		
75																		
80													.1					
									Grey lt Grey org				1	Strg Sulf. Redox				
85																		
									lt Grey Flesh lt Green				.5					
90																		
													.5					
95																		
100													.5					

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-273

Page 2 of 7

LOGGED BY _____

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	% WASH RECOV.
		xK							lt Grey lt Green Brn-org				.5	Ct				
105		xK Frx							Brn-org lt Grey				.1	Oxidized				
Fault 110		xK Frx							Drk Grey lt Grey Brn-org				1	w/ Black to Drk Grey Qtz & silica Flood				
115		xK							lt Grey Flesh				.5	w/ wk to mod clay alt trace Qtz and Drk Qtz				
120													.5					
125																		
130																		
135																		
140									lt Grey Flesh-red lt Green				.1	Deer sulf. & alt				
145									Brn-red				.1					
150									Brn-red Purp				0	un-alt ugly Rx				
155									Olive Brn-red				.1	v. wk. alt.				
160									Olive Grn Flesh									
165																		
170																		
175																		
180									lt Green Green				.5	Slight incr. sulf (damp) and Bleach				
185									Green Brn-red				.1					
190									Brn-red Purp				0	Sharp Δ color and alt, Ratty Rx				
195																		
200																		

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

FINE-GRAINED TUFF
LITHIC LAPILLI TUFF

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

DRILL HOLE RL-273

Page 3 of 7

LOGGED BY _____

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	% WASH RECOV.
			Black															
									Brn-red Purp Olive-Grn				0	C+ Fine Grain tuff with Phenos of Chlorite after Biot.?				
205									Green Olive									
210									lt Green Grn.									
215													.1					
220																		
225																		
230																		
235																		
240																		
245									Grn-Olive Brn-red				?	Not much going on				
250													?					
255									Brn-red Purp				0					
260									Brn-red Olive-Grn									
265																		
270									Olive Grn lt Green Flesh-red				.1					
275																		
280														Just .375 Au & 1.58 Ag 280-285	.375	1.58		
285									lt Green Green Flesh									
290																		
295																		
300																		

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

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LITHIC LAPILLI TUFF

ARGILLIC
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XXXXXX DRUZY QUARTZ
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P P P PROPYLITIZATION
Ca CALCITE

DRILL HOLE RL-273

Page 4 of 7

LOGGED BY _____

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	% WASH RECOV.
			Bleach															
									lt Green Olive Gra				.1	SAA Ct				
305									Brn-red				.1					
310									Brn-red				0					
315									lt. Gren				0					
320									lt Green flesh-red				.1					
325																		
330																		
335																		
340																		
345									Brn-red Olive Gra				0					
350																		
355		Ca																
360		Ca																
365																		
370																		
375									lt Green flesh-red				.1					
380									lt Green lt Grey flesh				.1	(Slight incr Bleach)				
385													.5	(Slight incr sulf)				
390													.5					
395													.5					
400									lt Green Olive Gra				.1	4/20 4/21				

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-223

Page 5 of 7

LOGGED BY _____

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS 4/20 4/21	Rod Cuttings	Au	Ag	CHECK	% WASH RECOV.
			Bleach																
									Olive Grn Grn				.1	SAA - Ct w/not much Hgmny	X				
405													.1						
410									Flesh-red				.1						
415									Brn-red Purp Grn				0?		X				
420													0						
425																			
430																			
435																			
440															X				
445									Green lt Green Flesh-red										
450																			
455									Brn-red Green										
460															X				
465									Green lt Green Flesh-red				.1						
470																			
475		Ca xk							lt Green Green Flesh					trace xk & Ca					
480		Fault xk ΔV Δ											.5	Fault zone: minor Bx, Qtz vns: Fracx: trace Chalco Py	X	.003			
485		xk							lt Grey lt Green Grn Flesh				.5	Slight incr Bleach and sulf.		.021			
490		xk							lt Grey lt Green Flesh wht				.5	Fine Grain Tuff → cannot see any Phenos or relicts Provlem difficult to determine		.015			
495		xk							lt Grey Flesh wht							.068			
500		xk Ca							lt Grey Green wht Flesh						X	.042			

mas H_2O
lots of H_2O

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

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LITHIC LAPILLI TUFF

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XXXXXX DRUZY QUARTZ
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XK STOCKWORK QUARTZ
P P P PROPYLITIZATION
Ca CALCITE

DRILL HOLE RL-273

Page 6 of 7

LOGGED BY _____

	LITH.	ALT.	% ARG ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	% WASH RECOV.
			Bleach															
		XK							Wht lt Grey Flesh Grn				1	SAA. (Strg to very strg Bleach and Incr. dissem sulf)	.090			
505									Wht lt Grey				1		.106			
510																		
515														.161	.158		.164	
															.063			
520																		
525															.110			
									Flesh					.197	.185		.209	
530									Wht lt Grey Flesh lt Green						.164			
535									lt Green lt Grey Wht				.5	Decr. dissem sulf. & Bleach	.12			
540													.5	Slight incr sulf & Bleach and also slight incr micro-Qtz vns .281	.267		.285	
545									Wht lt Grey Flesh				1	f.G Tuff w/ minor Bx and strong Bleach & incr sulf.: slfd w/ Qtz vns	.178			
Fault? 550									Wht lt Grey				.5	very strg Bleach .273 trace micro Qtz vns: Decr. sulf.	.273		.273	
555																		
560													.5	.252	.242		.262	
									Wht lt Grey lt Grn						.076			
565																		
570															.102			
575															.122			
mucho mas Agua Fault 580		XK							lt Grey lt Grey Flesh Grey Dk Grey				1	Fault zone: Dk Grey Qtz with Slicks omit: Py Slicks: Brecciated slfd				
585		XK							lt Green lt Grey lt Flesh				.5					
590		XK							lt Green lt Grey Flesh					Rx may be Ct or C,Ct trace Qtz				
595																		
600																		

LAC MINERALS (U.S.A.) INC.
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DRILL HOLE RL-273

Page 7 of 7

Note: Losing H_2O out of top head packing ∴ H_2O test may be shy 1 or 2 gallons per minute

LOGGED BY _____

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Rod connect	Au	Ag	CHECK	% WASH RECOV.
605		xk	Bleach						Lt Green lt Grey flesh				.5	StA (F.G. Tuff) C,Ct	X				
610																			
615														(w/ Green clay seams)					
620															X				
625																			
630																			
635		xk												(trace xk wk slfd)					
640		xk													X				
645																			
650																			
655																			
660	Fault?													4/21 4/22 Bx trace xk. slfd Hook up Air Booster start drilling at 8:00 am	X				
665		xk												It looks like a F.G. Porph Tuff Trace xk					
670		xk							Lt Grey lt Green flesh										
675														wk alt w/ chlorite seams End H_2O test 12:30 pm					
680									Grey						X				
685													.1						
690									Brn-red Flesh				.1						
695									Brn-red DK Purp				?						
700													0		X				

H_2O TEST

time	Seconds to fill 5 Gallons	GPM
	9.5	31.5
	9.0	33.3
0	9.0	33.3
15	9.0	33.3
30	9.0	33.3
45	9.0	
60		

T.D. 11:30 am

BARRINGER LABORATORIES INC.

15000 W. 6TH AVE., SUITE 300
GOLDEN, COLORADO 80401
PHONE: (303) 277-1687

5301 LONGLEY LANE
BUILDING E, SUITE 179
RENO, NEVADA 89511
PHONE: (702) 826-1158

28-Apr-92

LAC MINERALS
P O BOX 21390
RENO NV 89515

Received: 23-Apr-92 16:45

Attn: Tim Kuhl
Project:

PO #:

Job: 92603R

Status: Final

Abbreviations:

Parameters:

Au	: Gold
Ag	: Silver

Methods:

FA/AA/AAS	: Fire Assay/AA Finish
FA/AA	: Fire Assay with AA finish
AA	: Atomic Absorption

Units:

oz/ton	: ounces per ton

Quality codes:

<	: less than
NA	: Not Analyzed

Job approved by:

Signed:

.....
Vernon K. Peterson
Laboratory Manager

cc: KRISTEN KENNER, LAC MINERALS

File

BARRINGER LABORATORIES INC.

GOLDEN, COLORADO 80401
PHONE: (303) 277-1687

9301 LONGLEY LANE
BUILDING E, SUITE 178
RENO, NEVADA 89511
PHONE: (702) 828-1158

28-Apr-92

LAC MINERALS
P O BOX 21390
RENO NV 89515

Page: 1
Copy: 2 of 3
Set : 1

Received: 23-Apr-92 16:45

Attn: Tim Kuhl
Project:

PO #:

Job: 92603R

Status: Final

Drill Core

Sample Id	Au FA/AA/AAS oz/ton	Au FA/AA oz/ton	Ag AA oz/ton
RL-273 0 5	<0.0001	0.0002	0.006
BL-077	0.0498	NA	NA
RL-273 5 10	0.0008	NA	0.006
RL-273 10 15	0.0003	NA	0.012
RL-273 15 20	0.0001	NA	0.012
RL-273 20 25	0.0014	NA	0.015
RL-273 25 30	0.0005	NA	0.012
RL-273 30 35	<0.0001	NA	0.012
RL-273 35 40	<0.0001	NA	0.012
RL-273 40 45	0.0008	0.0010	0.018
RL-273 45 50	0.0015	NA	0.015
RL-273 50 55	0.0030	NA	0.096
RL-273 55 60	0.0036	NA	0.058
RL-273 60 65	0.0009	NA	0.029
RL-273 65 70	<0.0001	NA	0.015
RL-273 70 75	<0.0001	NA	0.009
RL-273 75 80	0.0053	NA	0.102
RL-273 80 85	0.0008	NA	0.026
RL-273 85 90	0.0002	0.0003	0.006
BL-078	0.0470	NA	NA
RL-273 90 95	0.0019	NA	0.020
RL-273 95 100	0.0175	NA	0.076
RL-273 100 105	0.3221	0.3870	0.581
RL-273 105 110	0.1720	NA	2.949
RL-273 110 115	0.1440	NA	0.540
RL-273 115 120	0.0095	NA	0.091
RL-273 120 125	0.0055	NA	0.073
RL-273 125 130	0.0003	0.0006	0.026
RL-273 130 135	0.0007	NA	0.023
RL-273 135 140	0.0002	NA	0.038

15'/.213

04. 28. 92 02:28 PM *Barringer Labs, Inc. P01

BARRINGER LABORATORIES INC.

GOLDEN, COLORADO 80401
PHONE: (303) 277-1687

5301 LONGLEY LANE
BUILDING E. SUITE 178
RENO, NEVADA 89511
PHONE: (702) 828-1158

28-Apr-92

LAC MINERALS
P O BOX 21390
RENO NV 89515

Received: 23-Apr-92 16:45

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Project:

PO #:

Job: 92603R

Status: Final

Drill Core

Sample Id	Au FA/AA/AAS oz/ton	Au FA/AA oz/ton	Ag AA oz/ton
RL-273 140 145	0.0005	NA	0.026
RL-273 145 150	0.0003	NA	0.006
RL-273 150 155	<0.0001	NA	0.003
RL-273 155 160	0.0009	NA	0.012
RL-273 160 165	<0.0001	NA	0.012
RL-273 165 170	0.0010	NA	0.018
RL-273 170 175	0.0089	0.0096	0.058
BL-079	0.0510	NA	NA
RL-273 175 180	0.0046	NA	0.064
RL-273 180 185	0.0394	0.0310	0.123
RL-273 185 190	0.0014	NA	0.018
RL-273 190 195	<0.0001	NA	0.006
RL-273 195 200	<0.0001	NA	0.003
RL-273 200 205	<0.0001	NA	0.006
RL-273 205 210	0.0025	NA	0.012
RL-273 210 215	0.0065	0.0062	0.038
RL-273 215 220	0.0019	NA	0.029
RL-273 220 225	0.0022	NA	0.050
RL-273 225 230	0.0013	NA	0.018
RL-273 230 235	0.0053	NA	0.102
RL-273 235 240	0.0117	NA	0.093
RL-273 240 245	0.0050	NA	0.134
RL-273 245 250	<0.0001	<0.0001	0.012
RL-273 250 255	0.0005	NA	0.044
RL-273 255 260	0.0010	0.0011	0.020
BL-080	<0.0001	NA	NA
RL-273 260 265	<0.0001	NA	0.006
RL-273 265 270	0.0041	NA	0.044
RL-273 270 275	0.0010	NA	0.012
RL-273 275 280	0.0042	NA	0.035

04. 28. 92 02:28 PM *Barringer Labs, Inc. P02

BARRINGER LABORATORIES INC.

GOLDEN, COLORADO 80401
PHONE: (303) 277-1687

5301 LONGLEY LANE
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RENO, NEVADA 89511
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28-Apr-92

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P O BOX 21390
RENO NV 89515

Attn: Tim Kuhl
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PO #:

Job: 92603R

Status: Final

Drill Core

Sample Id	Au FA/AA/AAS oz/ton	Au FA/AA oz/ton	Ag AA oz/ton
RL-273 280 285	0.3478	0.4020	1.577
RL-273 285 290	0.0085	NA	0.096
RL-273 290 295	0.0047	NA	0.061
RL-273 295 300	0.0009	0.0009	0.026
RL-273 300 305	0.0009	NA	0.018
RL-273 305 310	0.0009	NA	0.009
RL-273 310 315	0.0032	NA	0.018
RL-273 315 320	0.0016	NA	0.041
RL-273 320 325	0.0181	NA	0.155
RL-273 325 330	0.0112	NA	0.058
RL-273 330 335	0.0025	NA	0.023
RL-273 335 340	0.0035	NA	0.018
RL-273 340 345	0.0045	0.0048	0.023
BL-081	0.0218	NA	NA
RL-273 345 350	<0.0001	NA	0.003
RL-273 350 355	<0.0001	NA	0.006
RL-273 355 360	<0.0001	NA	0.006
RL-273 360 365	<0.0001	NA	0.012
RL-273 365 370	0.0002	NA	0.026
RL-273 370 375	0.0017	NA	0.058
RL-273 375 380	0.0012	NA	0.093
RL-273 380 385	0.0025	0.0026	0.079
RL-273 385 390	0.0141	NA	0.412
RL-273 390 395	0.0042	NA	0.058
RL-273 395 400	0.0317	0.0340	0.286
RL-273 400 405	0.0095	NA	0.085
RL-273 405 410	0.0020	NA	0.047
RL-273 410 415	0.0022	NA	0.026
RL-273 415 420	0.0002	NA	0.012
RL-273 420 425	0.0044	NA	0.053

5000 W 6TH AVE, SUITE 300
GOLDEN, COLORADO 80401
PHONE: (303) 277-1687

5391 LONGLEY LANE
BUILDING E, SUITE 78
RENO, NEVADA 89511
PHONE: (702) 828-1158

BARRINGER LABORATORIES INC.

28-Apr-92

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LAC MINERALS
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PO #:

Status: Final

Job: 92603R

Drill Core

Sample Id	Au FA/AA/AAS oz/ton	Au FA/AA oz/ton	Ag AA oz/ton
RL-273 425 430	0.0015	0.0009	0.015
BL-082	0.0470	NA	NA
RL-273 430 435	0.0001	NA	0.012
RL-273 435 440	0.0002	NA	0.006
RL-273 440 445	0.0053	NA	0.053
RL-273 445 450	0.0004	NA	0.038
RL-273 450 455	0.0002	NA	0.012
RL-273 455 460	0.0001	NA	0.012
RL-273 460 465	0.0089	NA	0.070
RL-273 465 470	0.0109	0.0094	0.126
RL-273 470 475	0.0102	NA	0.225
RL-273 475 480	0.0034	NA	0.058
RL-273 480 485	0.0208	NA	0.117
RL-273 485 490	0.0154	NA	0.111
RL-273 490 495	0.0677	NA	0.423
RL-273 495 500	0.0417	NA	0.377
RL-273 500 505	0.0904	NA	0.712
RL-273 505 510	0.1063	NA	0.645
RL-273 510 515 .161	0.1577	0.1638	0.835
BL-083	0.0482	NA	NA
RL-273 515 520	0.0627	NA	0.324
RL-273 520 525	0.1104	NA	0.534
RL-273 525 530 .197	0.1854	0.2090	0.794
RL-273 530 535	0.1638	NA	0.692
RL-273 535 540	0.1200	NA	0.540
RL-273 540 545 .281	0.2669	0.2950	0.996
RL-273 545 550	0.1784	NA	0.870
RL-273 550 555 .273	0.2733	0.2727	1.054
RL-273 555 560 .252	0.2421	0.2620	0.999
RL-273 560 565	0.0759	NA	0.286

500-580' (80')
.165

75'/.162
~~80'/.155~~

MEETING THE ANALYTICAL CHALLENGES OF A CHANGING WORLD

BARRINGER LABORATORIES INC.

15000 W. 6TH AVE., SUITE 300
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PHONE: (303) 277-1687

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Page: 5
Copy: 2 of 3
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Attn: Tim Kuhl
Project:

PO #:

Job: 92603R

Status: Final

Drill Core

Sample Id	Au FA/AA/AAS oz/ton	Au FA/AA oz/ton	Ag AA oz/ton
RL-273 565 570	0.1022	NA	0.365
RL-273 570 575	0.1218	NA	0.429
RL-273 575 580 1288	0.2742	0.3010	1.013
RL-273 580 585	0.0412	NA	0.166
RL-273 585 590	0.0347	NA	0.114
RL-273 590 595	0.0115	NA	0.041
RL-273 595 600	0.0561	0.0579	0.152
BL-084	0.0221	NA	NA
RL-273 600 605	0.0533	NA	0.193
RL-273 605 610	0.0454	NA	0.131
RL-273 610 615	0.0677	NA	0.187
RL-273 615 620	0.1054	NA	0.371
RL-273 620 625	0.1045	NA	0.388
RL-273 625 630	0.0309	NA	0.096
RL-273 630 635	0.0243	NA	0.076
RL-273 635 640	0.0183	0.0198	0.085
RL-273 640 645	0.0739	NA	0.216
RL-273 645 650	0.0585	NA	0.207
RL-273 650 655	0.2158	NA	0.675
RL-273 655 660	0.0396	NA	0.161
RL-273 660 665	0.1004	NA	0.356
RL-273 665 670	0.0406	NA	0.146
RL-273 670 675	0.0199	NA	0.079
RL-273 675 680	0.0249	NA	0.117
RL-273 680 685	0.0544	0.0542	0.178
BL-085	0.0515	NA	NA
RL-273 685 690	0.0654	NA	0.210
BL-086	0.0507	NA	NA
RL-273 690 695	0.2010	NA	0.610
RL-273 695 700	0.0656	NA	0.260

SRF

LAC Minerals – Rejects to Keep

Date Recieved	Work Order #	Rejects to Keep
4-10-92	92523	RL-260
	this entire hole is on job # 92523	25-30 → 150-155 225-230 → 395-400 660-665 → 795-800
5-8-92	92755	RL-266
	this interval is the only ☆ sequence from job # 92755	30-35 → 195-200
	92785	540-545 → 610-615 660-665 → 680-685
4-25-92	92620	RL-274
	all present on job # 92620	150-155 → 230-235 355-360 → 565-570
4-25-92	92619	RL-271
	all present on job # 92619	200-210 → 270-275 400-405 → 425-430 720-725 → 745-750
4-27-92	92627	RL-258
	92343 →	0-5 → 295-300
	92391 →	485-490 → 625-630
	This is the only interval from job # 92627	750-755 → 860-865
4-23-92	92603	RL-273
	this entire hole is on job # 92603	90-95 → 120-125 170-175 → 330-335 385-390 → 400-405 460-465 → 695-700

BOYLES-WELNAV
ELKO, NEVADA

GYROSCOPIC DIRECTIONAL SURVEY
BY MINIMUM CURVATURE

FOR

****
* LAC MINERALS *
****

JOB NUMBER: 029-0313-12CCGY

WELL NAME: RL-273

LOCATION: ROSEBUD PROPERTY

SURVEY DATE: 05-27-1992

SURVEY ENGINEER: PHIL GRAFFT

GYRO REFERENCE BEARING: 132.00

TIE-ON COORDINATES AT: 0 M.D.
TAKEN FROM: SURFACE

********** DEPTH MEASURED IN FEET **********

COMMENTS: 700 FT. PROJECTED
FROM 475 FT.

*** THIS DIRECTIONAL SURVEY REPORT IS ****
** CORRECT TO THE BEST OF MY KNOWLEDGE ***
* AND IS SUPPORTED BY ACTUAL FIELD DATA! *

COMPANY REPRESENTATIVE

BOYLES-WELNAV
ELKO,NEVADA

JOB NUMBER: 029-0313-12CCGY

WELL NAME: RL-273

INRUN SURVEY
BY MINIMUM CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	L/R CLOS.	INCL	BEARING AZIMUTH	COORDINATES LATITUDE	COORDINATES DEPARTURE	D-LEG /100	D-LEG /CL	STATION DISP.	DISPLACEMENT DIRECTION
0.0	0.00	0.00	0.000	-61.62	126.30	0.00 N	0.00 E	0.00		0.00	AT 000.00
50.0	43.83	24.02	-1.423	-60.83	128.10	14.55 S	19.17 E	2.34	1.17	24.07	AT 127.21
100.0	87.55	48.26	-2.182	-61.14	129.52	29.75 S	38.06 E	1.51	0.75	48.31	AT 128.01
150.0	131.41	72.26	-2.549	-61.48	129.93	45.09 S	56.53 E	0.79	0.39	72.31	AT 128.58
200.0	175.46	95.92	-2.664	-62.03	130.72	60.40 S	74.57 E	1.33	0.66	95.96	AT 129.01
250.0	219.78	119.06	-2.690	-62.84	130.35	75.44 S	92.15 E	1.66	0.83	119.09	AT 129.31
300.0	264.26	141.90	-2.770	-62.79	130.45	90.24 S	109.55 E	0.14	0.07	141.93	AT 129.48
350.0	308.73	164.77	-2.850	-62.78	130.35	105.07 S	126.96 E	0.09	0.05	164.80	AT 129.61
400.0	353.23	187.57	-2.969	-62.97	130.25	119.81 S	144.35 E	0.39	0.20	187.59	AT 129.69
450.0	397.77	210.28	-3.035	-63.00	130.62	134.54 S	161.63 E	0.34	0.17	210.30	AT 129.77
500.0	442.35	232.92	-2.867	-63.14	131.43	149.40 S	178.72 E	0.79	0.40	232.94	AT 129.89
550.0	487.01	255.39	-2.489	-63.45	131.70	164.31 S	195.53 E	0.66	0.33	255.40	AT 130.04
600.0	531.81	277.59	-1.821	-63.79	132.95	179.27 S	211.95 E	1.30	0.65	277.60	AT 130.22
650.0	576.71	299.58	-0.887	-63.99	133.12	194.28 S	228.04 E	0.43	0.21	299.58	AT 130.43
700.0	621.64	321.49	-0.017	-63.98	132.63	209.21 S	244.11 E	0.42	0.21	321.49	AT 130.60

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*                          ********                         *
*      THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF          *
*                          ********                         *
*   700.0 FEET EQUALS   321.49   FEET AT  130.60            *
*                          ********                         *
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