60001653

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-275
AUTHOR	C. Walck; 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 400' handwritten notes; directional survey ~~2~~ p. 23

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: mch
Initials Date
SCANNED: NV Blue
Initials Date

Revised: 1/22/08

ROSEBUD RL-275
DRILL LOG

66061657 4010

60001653

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

DRILL LOG SUMMARY SHEET

PROJECT Rosebud

HOLE NUMBER RL275 TOTAL DEPTH 400' LOGGED BY CMW

Date started 5/14/92

Date completed 5/14/92

Initial bearing due south

Initial inclination -68°

Elevation

Collar coordinates:

N

E

Contractor: Stevens

Drill Type: Schram

Hole Size: 5 1/2

Drilling Conditions: GOOD

Footage: Wet / Dry 260'

Comments: inject all the way in wet portion

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
BEDDED BUD LLT
VOLCANICLASTIC
PORPHYRITIC TUFF
FLOW BANDED TUFF

VEIN TYPES

DRUZY QUARTZ
Xc CHALCEDONIC
XK STOCKWORK
Ca CALCITE
HYDROTHERMAL BRECCIA VNS
Ba BARITE

DRILL HOLE ___-___

Page 1 of ____

RL275
-68° due S
@ collar of RL272

LOGGED BY CMW

FT.	LITHO	FRACTS FAULTS	VEIN TYPES	BLEACH W	BLEACH H	BLEACH S	CLAY W	CLAY H	CLAY S	SILIC W	SILIC H	SILIC S	COLOR	% FeOx W	% FeOx H	% FeOx S	% SULF.	COMMENTS	ROD CONN.	Ag	Au	✓
	OB																	0-17 OVERBURDEN				
05																						
	OB																					
10																						
15																						
													lt					17-35 CHOC f.gr,				
20													grey					granular lt grey, wk silic,				
																		10-30% chips lim				
25																		stained				
30																						
																		35-40 small hard rounded silic				
																		chips & abt tan clay & soft chips				
35			Qtz										lt									
		X	XK										grey					40-50 fracture, mix of above				
40		fracs	Qtz										&					chips w/ 20-40% lt grey qtz				
			XK										or-					30% lim stained, tan clay				
45													tan									
			XK															50-115 CHOC f.gr.				
50																		granular lt grey, w-m to md				
			XK															silic, t wk XK, t lt grey				
55																		qtz chips,				
			XK															30-40% lim stained				
60																						
																		finely ground				
65			Qtz																			
			XK																			
70			Qtz										md					15-30%				
													grey,					lim.				
75													pink-					stained				
			Xc										purple									
80													&					+ white chalc				
			wk Xc										or-									
85													tan									
			wk Xc																			
90																						
95																						
100																						

NOTE SULFIDES IN COMMENTS: Py Mc Cp Pr Sb

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

FINE-GRAINED TUFF
BEDDED BUD LLT
VOLCANICLASTIC
PORPHYRITIC TUFF
FLOW BANDED TUFF

VEIN TYPES

DRUZY QUARTZ
Xc CHALCEDONIC
XK STOCKWORK
Ca CALCITE
HYDROTHERMAL BRECCIA VNS
Ba BARITE

DRILL HOLE ___-___

Page 2 of ____

RL275

LOGGED BY CMW

FT.	LITHO	FRACTS FAULTS	VEIN TYPES	BLEACH W H S	CLAY W H S	SILIC W H S	COLOR	% FeOx W H S	% SULF.	COMMENTS	ROD CONN.	Ag	Au	✓
							lt-md grey & or-tan			50-115 cont CHOC fg				
105										granular w-m silic, generally finely ground 20-40% lim stained				
10										± tan clay				
15			XK											
20			XK+py, minor Kal				md green grey		3	115-145 Md green grey fg granular CHOC, ~2% dtes py, wk XK+py, locally ox to dk red				
25									3					
30									3					
35							Md grey green		3					
40			XK+py				& minor dk flesh		3					
45							Md grey		3					
150			minor XK+lim				Md green-grey,		Tr	145-175 Mix of lim stained				
55							purple & or-tan			& grey-green or pink-purple fg granular CHOC, w-m silic				
60														
65		fracs	Qtz/Xc & XK+lim							+ fg lt grey qtz/chalc				
70			wk Xc, XK											
175			Qtz+lim Xc							175-200 CHOC; Mix of fg Md grey, green grey & pink-purple w-m silic & abt small hard chips w/str brown lim stain - many are qtz				
80														
85														
90														
95														
200														

OX / RED

RED / OX

NOTE SULFIDES IN COMMENTS: Py Mc Cp Pr Sb

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

DRILL HOLE ___-___

Page 3 of ___

RL275

LOGGED BY CMW

FINE-GRAINED TUFF
BEDDED BUD LLT
VOLCANICLASTIC
PORPHYRITIC TUFF
FLOW BANDED TUFF

VEIN TYPES

DRUZY QUARTZ
Xc CHALCEDONIC
XK STOCKWORK
Ca CALCITE
HYDROTHERMAL BRECCIA VNS
Ba BARITE

FT.	LITHO	FRACTS FAULTS	VEIN TYPES	BLEACH W	BLEACH M	BLEACH S	CLAY W	CLAY M	CLAY S	SILIC W	SILIC M	SILIC S	COLOR	% FeOx W	% FeOx M	% FeOx S	% SULF.	COMMENTS	ROD CONN.	Ag	Au	✓
			Qtz+lim										Md grey-green,					200 – 233 CHOC Purple, pink,				
205													purple pink & dk					green-green fg granular w-m silic ± XK w/ lessor				
10			Qtz+lim & Xc										orange-brown					dk brown (FeOx) & orange tan stained hard chips – some are				
15			Qtz+lim & Xc										Md purple-pink					qtz, ± lt grey chalc chips/vnlts				
20													& or-tan									
25																						
30																						
OX 35																						
RED 40													Md grey blue & purple pink				3	233 – 255 Md. grey-blue & purple pink granular fg CHOC, ± 2-30% diss py in bluefg wk to w-m silic				
45																	2	± lt grey Chalc/Qtz vnlts, + 5-10% dk brown small chips				
RED OX 50			Xc														1					
55			Xc															+ bright red hem on abt				
DRY 60			Abt Xc										lt grey & red				HEM	255 – 260 fg as above but w/ + bright red hematite on abt chips lt grey chalc/vnlts				
WET 65			Abt Xc										lt grey & green					260 – 265 Grey-green fg chips, + abt lt grey chalc – Flt				
70		FLT	PURE Xc										lt grey & or-brown or red					265 – 270 Flt Pure lt grey chalc w/ dk red hem stain				
275			70% Xc XK+py														3	270 – 300 Fault infl Mix of lt-med grey-green				
80			50% Xc XK+py														3	fg granular md silic ± XK ± diss py, w/ abt				
85			50% Xc + hem														2	lt grey-white chalc w/ hem & lim stain				
OX 90			25% Xc + lim														Tr					
RED 95			10% Xc 10% Qtz+py										Grey-Blue &				S	+ abt Qtz+py/Mc				
300			5% Xc 20% Qtz+py														9					

NOTE SULFIDES IN COMMENTS: Py Mc Cp Pr Sb

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

DRILL HOLE ___-___

Page 4 of 4

RL275

LOGGED BY CMW

VEIN TYPES

- FINE-GRAINED TUFF
- BEDDED BUD LLT
- VOLCANICLASTIC
- PORPHYRITIC TUFF
- FLOW BANDED TUFF
- DRUZY QUARTZ
- Xc — CHALCEDONIC
- Xk — STOCKWORK
- Ca — CALCITE
- HYDROTHERMAL BRECCIA VNS
- Ba — BARITE

FT.	LITHO	FRACTS FAULTS	VEIN TYPES	BLEACH W	BLEACH M	BLEACH S	CLAY W	CLAY M	CLAY S	SILIC W	SILIC M	SILIC S	COLOR	% FeOx W	% FeOx M	% FeOx S	% SULF.	COMMENTS	ROD CONN.	Ag	Au	✓
			Xk										Md grey & dk flesh				4	300-315 Md grey & md-dk flesh fg grey md silic w/ abt diss py, Xk+pg & some milky qtz & Xc				
305			Xk														4					
10			Abt Qtpy, Xc														9					
15	SILICA	FAULT	40% Xc 40% Qtz										White & md grey				5	315-325 FAULT, almost pure silica, mostly lt grey white Xc/chalc, locally milky yellow,				
20	Silica		Pure Chalc										White-grey				1					
325		FAULT	Qtpy										dk grey				4	325-330 Abt lt grey clay, + chips fg py + dk grey silic chips				
30 little more water?			Abt Q± py Xc, Xk										flesh, green & grey				5	330-345 Md silic fg CHOC w/ Xk+py, w/ Abt (25-50%)				
35													Md grey				5	chips lt grey qtz ± py, diss py, minor Δ (gray qtz matrix)				
40																	4					
45																	3	345-360 Md grey fg CHOC? DZ? w/ 3% diss py, w-msilic				
350			Qtz+py														4	+ 12% grey qtz + py				
55																	4					
60													H-md grey green				2	360- FOOTWALL lt-md grey-green fg, wk silic, ± thin Xk ± minor Qtpy				
65			Wk Xk, Q+py														2					
70			Vwk Xk														2					
375		fract	Abt Xk Qtz+py										lt green dk grey				8	fracture: 40% md grey Qtpy/Mc, Xk, DrQ				
80			Vwk Xk+py										lt-md green				2					
85																	2					
90																	3					
95																	4					
400																						

	Time to fill 5gal	GPM
0	1min	5
15	1min	5

NOTE SULFIDES IN COMMENTS: Py Mc Cp Pr Sb

File

BARRINGER LABORATORIES INC.

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

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

21-May-92

LAC MINERALS
P O BOX 21390
RENO NV 89515

Page: 1
Copy: 1 of 3
Set : 1

Attn: Tim Kuhl
Project: Rosebud
PO #:

Received: 16-May-92 06:59

Job: 92810R

Status: Final

Cutting

Sample Id	Au FA/AA/AAS oz/ton	Au FA/AA oz/ton	Ag AA oz/ton
RL-275 0 5	0.0004	0.0004	0.015
BL-05	<0.0001	NA	NA
RL-275 5 10	0.0004	NA	0.015
RL-275 10 15	0.0009	NA	0.018
RL-275 15 20	0.0031	NA	0.035
RL-275 20 25	0.0051	NA	0.058
RL-275 25 30	0.0027	NA	0.047
RL-275 30 35	0.0015	NA	0.032
RL-275 35 40	0.0042	NA	0.053
RL-275 40 45	0.0075	NA	0.055
RL-275 45 50	0.0030	NA	0.055
RL-275 50 55	0.0038	NA	0.076
RL-275 55 60	0.0041	NA	0.082
RL-275 60 65	0.0025	NA	0.070
RL-275 65 70	0.0054	NA	0.070
RL-275 70 75	0.0041	NA	0.050
RL-275 75 80	0.0065	0.0069	0.137
RL-275 80 85	0.0072	NA	0.047
RL-275 85 90	0.0026	NA	0.038
BL-057	0.0224	NA	NA
RL-275 90 95	0.0028	NA	0.050
RL-275 95 100	0.0044	NA	0.053
RL-275 100 105	0.0266	0.0340	0.070
RL-275 105 110	0.0035	NA	0.257
RL-275 110 115	0.0025	NA	0.050
RL-275 115 120	0.0025	NA	0.093
RL-275 120 125	0.0025	NA	0.096
RL-275 125 130	0.0057	0.0063	0.111
RL-275 130 135	0.0015	NA	0.050
RL-275 135 140	0.0019	NA	0.058

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BARRINGER LABORATORIES INC.

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RL-275 140 145	0.0017	NA	0.061
RL-275 145 150	0.0017	NA	0.064
RL-275 150 155	0.0052	NA	0.126
RL-275 155 160	0.0028	NA	0.041
RL-275 160 165	0.0022	NA	0.035
RL-275 165 170	0.0017	NA	0.055
RL-275 170 175	0.0021	0.0024	0.064
BL-058	0.0143	NA	NA
RL-275 175 180	0.0025	NA	0.038
RL-275 180 185	0.0031	NA	0.064
RL-275 185 190	0.0107	NA	0.088
RL-275 190 195	0.0044	NA	0.061
RL-275 195 200	0.0030	NA	0.181
RL-275 200 205	0.0041	NA	0.257
RL-275 205 210	0.0027	NA	0.064
RL-275 210 215	0.0045	NA	0.064
RL-275 215 220	0.0030	NA	0.117
RL-275 220 225	0.0048	NA	0.152
RL-275 225 230	0.0105	0.0097	0.079
RL-275 230 235	0.0051	NA	0.126
RL-275 235 240	0.0023	NA	0.128
RL-275 240 245	0.0035	NA	0.280
RL-275 245 250	0.0030	NA	0.161
RL-275 250 255	0.0034	NA	0.114
RL-275 255 260	0.0039	0.0040	0.131
BL-059	<0.0001	NA	NA
RL-275 260 265	0.0051	NA	0.336
RL-275 265 270	0.0042	NA	0.164
RL-275 270 275	0.0030	NA	0.161
RL-275 275 280	0.0024	NA	0.131

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BARRINGER LABORATORIES INC.

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Sample Id	Au FA/AA/AAS oz/ton	Au FA/AA oz/ton	Ag AA oz/ton
RL-275 280 285	0.0040	NA	0.190
RL-275 285 290	0.0030	NA	0.108
RL-275 290 295	0.0032	NA	0.108
RL-275 295 300	0.0024	NA	0.099
RL-275 300 305	0.0011	NA	0.067
RL-275 305 310	0.0022	NA	0.061
RL-275 310 315	0.0018	NA	0.067
RL-275 315 320	0.0019	NA	0.091
RL-275 320 325	0.0016	NA	0.061
RL-275 325 330	0.0039	NA	0.108
RL-275 330 335	0.0022	NA	0.076
RL-275 335 340	0.0126	0.0121	0.114
RL-275 340 345	0.0069	0.0072	0.196
BL-060	0.0475	NA	NA
RL-275 345 350	0.0040	NA	0.120
RL-275 350 355	0.0175	NA	0.137
RL-275 355 360	0.0098	NA	0.099
RL-275 360 365	0.0085	NA	0.032
RL-275 365 370	0.0066	NA	0.038
RL-275 370 375	0.0018	NA	0.026
RL-275 375 380	0.0813	0.0820	0.336
RL-275 380 385	0.0051	NA	0.053
RL-275 385 390	0.0031	NA	0.029
RL-275 390 395	0.0019	NA	0.064
RL-275 395 400	0.0063	NA	0.079

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21-May-92

LAC MINERALS
P O BOX 21390
RENO NV 89515

Page: 4
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Attn: Tim Kuhl
Project: Rosebud

PO #:

Received: 16-May-92 06:59

Job: 92810R

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

File

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21-May-92

LAC MINERALS
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(21)

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BL-058	0.0143	NA	NA
RL-275 175 180	0.0025	NA	0.038
RL-275 180 185	0.0031	NA	0.064
RL-275 185 190	0.0107	NA	0.088
RL-275 190 195	0.0044	NA	0.061
RL-275 195 200	0.0030	NA	0.181
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21-May-92

LAC MINERALS
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RENO NV 89515

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RL-275 280 285	0.0040	NA	0.190
RL-275 285 290	0.0030	NA	0.108
RL-275 290 295	0.0032	NA	0.108
RL-275 295 300	0.0024	NA	0.099
RL-275 300 305	0.0011	NA	0.067
RL-275 305 310	0.0022	NA	0.061
RL-275 310 315	0.0018	NA	0.067
RL-275 315 320	0.0019	NA	0.091
RL-275 320 325	0.0016	NA	0.061
RL-275 325 330	0.0039	NA	0.108
RL-275 330 335	0.0022	NA	0.076
RL-275 335 340	0.0126	0.0121	0.114
RL-275 340 345	0.0069	0.0072	0.196
BL-060	0.0475	NA	NA
RL-275 345 350	0.0040	NA	0.120
RL-275 350 355	0.0175	NA	0.137
RL-275 355 360	0.0098	NA	0.099
RL-275 360 365	0.0085	NA	0.032
RL-275 365 370	0.0066	NA	0.038
RL-275 370 375	0.0018	NA	0.026
RL-275 375 380	0.0813	0.0820	0.336
RL-275 380 385	0.0051	NA	0.053
RL-275 385 390	0.0031	NA	0.029
RL-275 390 395	0.0019	NA	0.064
RL-275 395 400	0.0063	NA	0.079

26-Oct-92

LAC MINERALS
P O BOX 21390
RENO NV 89515

Page: 5
Copy: 1 of 1
Set : 1

Attn: Tim Kuhl
Project: Rosebud

PO #:

Received: 18-Oct-92 16:51

Job: 922780R

Status: Final

Cutting

Sample Id	Au FA/AA/AAS oz/ton	Au FA/AA oz/ton	Ag AA oz/ton
RL284 545 550	0.0199	NA	0.055
RL284 550 555	0.0302	0.0330	0.064
RL284 555 560	0.0054	NA	0.026
RL284 560 565	0.0039	NA	0.020
RL284 565 570	0.0021	NA	0.020
RL284 570 575	0.0027	NA	0.020
RL284 575 580	0.0015	NA	0.012
RL284 580 585	0.0030	NA	0.023
RL275 690 695	0.0072	NA	0.044

LAC MINERALS — REJECTS TO KEEP

WORK ORDER #	REJECTS TO KEEP
921081	RL-267 200-205 → 220-225
921080	RL-263 285-290 → 330-335
921079	RL-262 105-110 → 120-125
921078	RL-270C 40-45 → 50-55
92990	RL-270C 167-171 → 442-446
92914	RL-270C TOSS
92913	RL-270C 823-828 → 853-858
92810	RL-275 75-80 → 125-130 175-180 → 230-235 325-330 → 395-400

BOYLES-WELNAV
ELKO, NEVADA

GYROSCOPIC DIRECTIONAL SURVEY
BY MINIMUM CURVATURE

FOR

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

JOB NUMBER: 029-0313-12CCGY

WELL NAME: RL-275

LOCATION: ROSEBUD PROPERTY

SURVEY DATE: 05-27-1992

SURVEY ENGINEER: PHIL GRAFFT

GYRO REFERENCE BEARING: 188.00

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

********** **********
****** DEPTH MEASURED IN FEET ******* **********
********** *** THIS DIRECTIONAL SURVEY REPORT IS ****
** CORRECT TO THE BEST OF MY KNOWLEDGE ***
COMMENTS: * AND IS SUPPORTED BY ACTUAL FIELD DATA! *
** **
** Phil Grafft **
** ********** **
** COMPANY REPRESENTATIVE **
****
****

BOYLES-WELNAV
ELKO,NEVADA

JOB NUMBER: 029-0313-12CCGY

WELL NAME: RL-275

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	-67.01	179.25	0.00 N	0.00 E	0.00		0.00	AT 000.00
50.0	46.16	19.20	-0.441	-67.81	178.28	19.20 S	0.41 E	1.76	0.88	19.21	AT 178.77
100.0	92.49	38.01	-0.996	-67.97	178.52	38.01 S	0.94 E	0.37	0.18	38.02	AT 178.59
150.0	138.82	56.80	-1.328	-67.89	179.63	56.80 S	1.24 E	0.85	0.43	56.81	AT 178.75
200.0	185.19	75.52	-1.467	-68.13	179.70	75.52 S	1.35 E	0.48	0.24	75.53	AT 178.98
250.0	231.66	93.97	-1.537	-68.55	180.05	93.97 S	1.39 E	0.88	0.44	93.98	AT 179.15
300.0	278.26	112.08	-1.380	-68.99	181.13	112.08 S	1.20 E	1.18	0.59	112.08	AT 179.38
350.0	324.97	129.90	-0.745	-69.20	183.13	129.90 S	0.54 E	1.49	0.74	129.91	AT 179.76
390.0	362.40	144.00	-0.002	-69.46	183.08	144.00 S	0.22 W	0.65	0.26	144.00	AT 180.09

```
*********************************************************
*                      ********                         *
*     THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF       *
*                      ********                         *
*  390.0 FEET EQUALS   144.00   FEET AT  180.09         *
*                      ********                         *
*********************************************************
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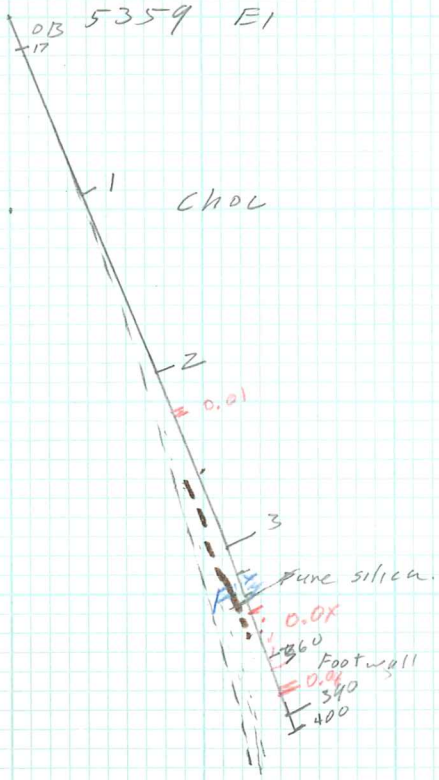
2,203,395.0 N
482,660.0 E



Rosebud
RL- 275
1"=100'

In plane of hole