60001411

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-186
AUTHOR	T. Kuhl; G. Walch. R. Donato; P. Graff +
DATE OF DOC(S)	1991
MULTI_DIST Y / (N?) Additional Dist_Nos:	
QUAD_NAME	Sulphur 7.5'
P_M_C_NAME (mine, claim & company names)	Rosebud Mine; Rosebud Project; Steven Drilling; Lac Minerals (USA), Inc; Bondar-Clegg, Ltd; Chemex Labs, Inc
COMMODITY If not obvious	gold silver
NOTES	Drill log; geology; assay; total depth 840' handwritten notes; directional survey 36p.

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 5/10/08
Initials Date

DB: mg
Initials Date

SCANNED:
Initials Date

Revised: 1/22/08

Drill Log RL-186
Rosebud

60001411 4010

6606 1411

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

DRILL LOG SUMMARY SHEET

PROJECT Rosebud

HOLE NUMBER RL-186 TOTAL DEPTH 840 LOGGED BY RKS

Date started 6/30/91 3 4th of July Break

Date completed 7/9/91

Initial bearing –

Initial inclination -90°

Elevation 5311.7

Collar coordinates:

N 2204030.0

E 482805.7

Contractor: Stevens

Drill Type: R.C

Hole Size: 5 1/4

Drilling Conditions: Bueno

Footage: Wet / Dry 0 - 325 Dry

325 - 840 wet

Comments: I Killed the hole due to clogged Bit & inner tube; I pulled some of the clay out and put it in the sample bag marked 840-845

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-186

Page 1 of 9

Start 6/30/91 Finish 7/9/91
0-325 dry
325-840 wet

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.
									Brn org Brn-red					OB- Qal	.003	<		
05															<L	<L		
10																<		
15																		
20									Yllw					Bedrock ~22 ft				
25									Yllw wht org lt Grey					Protolith very difficult to determine but should be Ct.	.002			
30															<			
35																		
40																		
45																.04		
50																.03		
55															<L	<		
60															<			
65																		
70																		
75															<L	<L		
80													.1	(1st sulfide show)	<	<		
85													.1	Oxides Redox Boundary Sulfides		<		
90									lt Grey Grey peach wht				1			.04		
95													2			.04		
100													2			<L	.002	

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

DRILL HOLE RL-186

Page 2 of 9

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.
									lt Grey Grey Peach wht				2	SAA - Ct	<	<		
105													2	(damp)	<	.05		
110													1		</<	<		
115													.5		<			
120													1					
125													.5					
130																		
135																		
140																		
145									lt Grey Peach wht								<	
150																		
155																		
160									lt Grey lt. Green peach wht					(trace Qtz vn)	<./<	<		
165															<	.02		
170									lt Grey lt Green						.002	<		
175														damp	<			
180									lt Green									
185									lt Grey lt Green Brown red				.1			<./<		
190									lt. Grey lt Grey-Green							.04		
195																.03	<	
200																		

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DRILL HOLE RL-186

Page 3 of 9

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.
									lt Grey lt Grey-Grn				.5	SAA-Ct	<1/<1	<1/<1		
205																		
210															<	.012		
									lt Grey Brn-red lt Green						<1/<1	<		
215																		
															.007	<		
220																		
225															<	<		
									lt Green Green wht					(looks like Bud ?) (very strg Arg)				
230																		
235																		
									lt Grey lt Green									
240																		
									flesh Brn									
245																		
250																	<	
									lt Grey lt Green flesh Brn									
255																		
260																		
									lt Green lt Grey						<1/<	.51		
265															<	<1/<		
270																		
									lt Green Green					(Bud look alike)		<		
275																		
280																.07		
285																<		
									lt Green flesh Brn lt Grey							<		
290																		
295																.012		
300																<	<	

LAC MINERALS (U.S.A.) INC.
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DRILL HOLE RL-186

Page 4 of 9

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.
									lt Grey lt Green Flesh Brn				.5	SAA - Ct	<	.07		
305																		
310														(damp)		.07		
									lt Green lt Grey							.31		
315									lt Grey Flesh Brn						<</<	.48		
320														(dry split)	<	.11		
325									lt Grey lt Green Flesh-red					wet (wet split)		.13		
330																.17		
335														(Fractured, slfd, mod Qtz on & Qtz on Bx) may be a Fault ?		.13		
340																.16		
345																.19	.002	
350																.58		
355																.44/.45		
360																.07		
365									lt. Green Green lt Grey-Grn							.04		
370																.08		
375									lt Green lt Grey-Grn							.12		
380																1.04		
385									lt Green lt Grey Flesh-red							.11		
390																.05		
395																.10	.004	
400																		

Bx frag mas agua

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DRILL HOLE RL-186

Page 5 of 9

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.
									Brn-red lt Green lt Grey				.5	SAA- Ct	<	.10		
405									↓				.5		.005	.08		
410									lt Green, Brn-red Buff				1	mod sulf.	<	.06		
415													2	Strong sulf.	.005/.005	.09		
minor fray 420																		
425													1	mod sulf.	<	.15		
430									↓ Brn				.5		.010	.13		
435									Brn-red flesh lt Grey				.5		.002	.07		
440															<	.07/.07		
445															<	.24		
450															<	.07	.001	
455															4/<	.04/.03		
460															.004	.09		
465														(trace Barite)	<	<		
470									Buff Lt. Grey lt Green						4/<	<		
475									Buff lt Grey						<	.92		
480									Buff lt Grey peach						<	.03		
485									Buff lt Grey							.05		
minor fray 490									Buff					(w/ Grey & Clear Qtz m)		.05		
495									Buff Brn							.04		
500									Buff							.05	.001	

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DRILL HOLE RL-186

Page 6 of 9

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.
									Buff lt Buff-Grey				.5	SAA - Ct	.004	.05		
505									Buff Wht				.5	(w/ Green Contam) (w/ ~ 10% Clear to milky Qtz)	.003	.03		
510													.5	(minor Bx Strong (~ 20%) Qt vn)	<.002	.04 .04		
more agua 515														(w/ ~ 10% Qtz)	.005	<		
520									Buff Flesh						<	<		
525														(w/ Green contam)	.003	.06		
530														(trace Qtz vn)	.003	.06		
535														(w/ mod to well developed dissem. sulf.)	<	.03		
mas agua 540														(w/ mod to poor developed dissem sulf)	.003	.05		
drilling w/our injecting H_2O 545									& Wht						.004	.05	.002	
550									Wht & lt Grey					(w/ mod developed dissem sulf.)	.005	.05		
555														(w/ mod to well developed dissem sulf)	<	.07		
560															<.002	.05		
565														(w/ Green Contam.)	<	.03		
570															.007	.05		
575															.054	.26		
580									lt Grey Brock					(Poor to very Poor dissem sulf)	.038	.06		
585									Flesh lt Grey wht					(I had Larry Rotate for 10 min. to clear up contam)	.004	.06		
590														(w/ some sort of Blck AgS(?) replacing marc. & slicks observed)	.011	.11		
595									lt Grey						.004 .005	.13	.005	
600																		

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Page 7 of 9

LOGGED BY _____

* w/ sticks observed and some Blck AgS (?) coatings on Frax ; w/ trace Ruby Ag ; trace Stibnite trace too Barite

* + 2½ hrs fighting our way through 640 - 650

*, Strong contamination from above Qal etc. ; Ruby Ag AgS Barite ; Stibnite

minor frax

tonnes of H_2O major Fault frax SRF frax

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	% WASH RECOV.
		x							lt Grey / lt Grey-Olive				.5	SAA - Ct (6/30 7/1)	<.004 / .005			
605									↓ Green				.5		.013	.14		
610		x x x							lt Green Green lt Grey Flesh				.5	(w/ trace Ruby Ag & Kaolin)	.013	3.90		
615		x							Green lt Green Flesh					looking like Bud again	.014 / .017	.32		
620		x													.004	.17		
625		x													.032	.14		
630		x												(trace AgS w/ Py (?) w/ Drk Grey & Clear to milky Qtz)	.014	1.21		
635									Drk Grey Wht	7/1			1	* Drk Grey Hydrothermal Breccia	.014	1.88		
640									Grey Wht lt Green Wht	7/2			1	* (Hazzard Drilling) (trip for trione 12:30pm) *, Rotate for over 1hr to clean out	.040	9.19		
645									Flesh-Brn				1	(w/ strg Blck AgS(?) on Frax. surface ; minor Ruby Ag w/ Kaolin vn)	.146	10.21	.208	
650									Wht lt Green lt Grey				1	Very Fine Grn Tuff ∴ Dt	.429	43.29		
655													.5	(w/ minor Bx)	.369	1.03		
660														(and strg Bleach w/ micro Qtz vn)	.110 / .083	.59		
665															.165 / .136	.66		
670															.410	.67		
675															.062 / .097 / .084	.22		
680															.469	1.04 / 1.02		
685															.109	.25		
690															.113 / .231 / .141	.36 / .29		
695															.119	1.09	.126	
700																		

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P P P PROPYLITIZATION
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DRILL HOLE RL-186

Page 8 of 9

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.
									Wht Lt Grey Grey Flesh Lt Green				.5	w/ micro Qtz vn SAA - Dt (Note: Grey Qtz may be contam after Rodding up)	.119	.82		
105															.095	.43		
110									Wht Lt Green peach					w/ micro Qtz vn				
115														(minor Breccia)	.047	.17		
120														(micro Breccia)	.032/.047	.19		
125									flesh					micro Qtz vns	.032	.14		
130									Wht flesh Lt Green						.071	.29		
minor frax 135														(w/ trace Barite & Kaolin)	.399	.45		
140														micro vn Bx 7/2 7/3	.402	.59		
145															.026	.17		
150														(w/ micro vn Bx)	.089	.22	.089	
155														(w/ wht Kaolin vn)	.062	.23		
160															.059	.06		
minor fault 165														(minor Bx) (w/ Green silica Flood w/ slicks observed)	.050	.31		
170															.019/.027	.09		
175															.013	.10/.10		
180														(minor Bx slight incr sulf.) 7/3 7/9 Fourth of July Break	<	.09		
185															.027	.17		
190															.023	.08		
195														(w/ Kaolin vn)	.003	.11		
800															.018	.15		

LAC MINERALS (U.S.A.) INC.
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DRILL HOLE RL-186

Page 9 of 9

N55°W 10 ft from 198C
No samples until 475'
Double samples from 475'-

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.
micro-Bx									lt Green wht flesh				.5	SAA - Dt (w/ wht Kaolin vn & mod-strg Bleach)	.006	.09		
805 micro vn Bx															.034/.029	.15/.13		
810 micro Bx															.048	.12		
815									Flesh-Brn				1	(mod sulfides)	.009	.16		
820									wht lt Grey				1	(very strg Bleach w/ well developed dissem sulf and micro Qtz vn)	<	.14		
825													1	(w/ mod Qtz vn ~10% & Ruby Ag)	<	2.61		
830 Fault zone									lt Green lt Grey wht Flesh				1	(w/ Dk Gray & wht clay Gouge)	.012	.16		
835									lt Green Dk Grey Grey wht				1	(lost circulation in a big void. we dropped ~2ft and lost circ Big clay gouge zone) (w/ wht Kaolin)	.014	.42		
840														T.D.				
845														clogged Bit w/ clay Gouge				
850																		
855														I filled the last sample				
860														bag with ~ 1 pound of the clay that Larry Wallace and	.007	.11		
865														I got from the inner tube and tri-cone bit. I put				
870														it in the bag 840-845 but remember it only represents				
875														~ 18 to 24" of that sample interval!				
880																		
885																		
890																		
895																		
900																		

Bondar-Clegg, Inc.
625 Spice Island Dr.
Building 1, Unit A
Sparks, Nevada 89431
702 (359-9330)

BONDAR-CLEGG

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

RL186

JUL 26 1991

645-635

Geochemical Lab Report

2 Ag Assays

LAC MINERALS (USA) INC.
MR. TIM KUHN
1395 GREG STREET #107
SPARKS, NV
89431

Bondar-Clegg, Inc.
625 Spice Island Dr.
Building 1, Unit A
Sparks, Nevada 89431
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BONDAR-CLEGG

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

REPORT: R91-11262.6 (COMPLETE)

REFERENCE INFO: RL 186, 500-780

CLIENT: LAC MINERALS (USA) INC.
PROJECT: ROSEBUD

SUBMITTED BY: STOHBERI
DATE PRINTED: 24 JUL-91

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Ag	Silver	2	0.02 OPT		Fire Assay

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
Z OTHER DRILL TYPES	2	2 -150	2	REMOVE FROM STORAGE	2

REPORT COPIES TO: MS. CYNDIE WALCK
MR. TIM KUHL
MR. TIM KUHL

INVOICE TO: MR. TIM KUHL

Rickey L Ontiveros

Bondar-Clegg, Inc.
625 Spice Island Dr.
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702 (359-9330)

BC
BONDAR-CLEGG

RL186
780-845

Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

AUG 7 1991

LAC MINERALS (USA) INC.
MR. TIM KUHL
1395 GREG STREET #107
SPARKS, NV
89431

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625 Spice Island Dr.
Building 1, Unit A
Sparks, Nevada 89431
702 (359-9330)

BONDAR-CLEGG

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

REPORT: R91-11335.4 (COMPLETE)

REFERENCE INFO: RL186 780-845

CLIENT: LAC MINERALS (USA) INC.
PROJECT: ROSEBUD

SUBMITTED BY: STOFBERL
DATE PRINTED: 2-AUG-91

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au Gold	13	0.002 OPT		Fire Assay
2	Au DUP Gold Duplicate	1	0.002 OPT		Fire Assay
3	Ag Silver	13	0.02 OPT	MULT ACID TOT DIG	Atomic Absorption
4	AG DUP AG DUPLICATE	1	0.02 OPT		Fire Assay

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
Z OTHER DRILL TYPES	13	2 -150	13	CRUSH,PULVERIZE -150	13
				OVERWEIGHT/LBS	99

REPORT COPIES TO: MS. CYNDIE WALCK
~~MR. TIM KUHL~~
MR. TIM KUHL

INVOICE TO: MR. TIM KUHL

Rickey L Ontko

Bondar-Clegg, Inc.
625 Spice Island Dr.
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BONDAR-CLEGG

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

REPORT: R91-11335.4 (COMPLETE)

DATE PRINTED: 2-AUG-91
PROJECT: ROSEBUD

STANDARD NAME	ELEMENT UNITS	Au OPT	Au DUP OPT	Ag OPT	AG DUP OPT
ANALYTICAL BLANK		<0.002	-	-	-
Number of Analyses		1	-	-	-
Mean Value		0.0010	-	-	-
Standard Deviation		-	-	-	-
Accepted Value		0.002	-	-	-
GEO TRACE STD1(1989)		-	-	0.94	-
Number of Analyses		-	-	1	-
Mean Value		-	-	0.940	-
Standard Deviation		-	-	-	-
Accepted Value		-	-	1.05	-
AG ASSAY		-	-	2.94	-
Number of Analyses		-	-	1	-
Mean Value		-	-	2.940	-
Standard Deviation		-	-	-	-
Accepted Value		-	-	3.03	-

Bondar-Clegg, Inc.
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702 (359-9330)

BONDAR-CLEGG

RL186
500-780

Geochemical Lab Report

Ash Bordeau

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

LAC MINERALS (USA) INC.
MR. TIM KUHL
1395 GREG STREET #107
SPARKS, NV
89431

Bondar-Clegg, Inc.
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Sparks, Nevada 89431
702 (359-9330)

BONDAR-CLEGG

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

REPORT: R91-11262.4 (COMPLETE)

REFERENCE INFO: RI 186, 5001-780

CLIENT: LAC MINERALS (USA) INC.
PROJECT: ROSEBUD

SUBMITTED BY: STOHBERI
DATE PRINTED: 22 JUL 91

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au Gold	58	0.002 OPT		Fire Assay
2	Au DUP Gold Duplicate	11	0.002 OPT		Fire Assay
3	AU Dup Gold Duplicate	2	0.002 OPT		Fire Assay
4	Ag Silver	58	0.02 OPT	MULT ACID TOT DIG	Atomic Absorption
5	AG DUP AG DUPLICATE	5	0.02 OPT		Fire Assay

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
Z OTHER DRILL TYPES	56	2 -150	56	CRUSH,PULVERIZE -150	56
P PREPARED PULP	2	4 AS REC'D	2	AS RECEIVED, NO SP	2
				OVERWEIGHT/LBS	436

NOTES: # indicates ERRATIC RESULTS

REPORT COPIES TO: MS. CYNDIE WAICK
MR. TIM KUHL
MR. TIM KUHL

INVOICE TO: MR. TIM KUHL

Anthony L Cowles

Bondar-Clegg, Inc.
625 Spice Island Dr.
Building 1, Unit A
Sparks, Nevada 89431
702 (359-9330)

BONDAR-CLEGG

RL186
0-500

Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

LAC MINERALS (USA) INC.
MR. TIM KUHL
1395 GREG STREET #107
SPARKS, NV
89431

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625 Spice Island Dr.
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Sparks, Nevada 89431
702 (359-9330)

BONDAR-CLEGG

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

REPORT: R91-11261.4 (COMPLETE)

REFERENCE INFO: RL 186, N-500

CLIENT: IAC MINERALS (USA) INC.
PROJECT: ROSEBUD

SUBMITTED BY: STOFBERG
DATE PRINTED: 22-JUL-91

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au Gold	105	0.002 OPT		Fire Assay
2	Au DUP Gold Duplicate	13	0.002 OPT		Fire Assay
3	Ag Silver	105	0.02 OPT	MULT ACID TOT DIG	Atomic Absorption
4	AG DUP AG DUPLICATE	9	0.02 OPT		Fire Assay

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
Z OTHER DRILL TYPES	100	2 -150	100	CRUSH,PULVERIZE -150	100
P PREPARED PULP	5	4 AS REC'D	5	AS RECEIVED, NO SP	5
				OVERWEIGHT/LBS	10

REPORT COPIES TO: MS. CYNDIE WALCK
MR. TIM KUHI
MR. TIM KUHL

INVOICE TO: MR. TIM KUHI

Rickey L Dunlap

Bondar-Clegg, Inc.
625 Spice Island Dr.
Building 1, Unit A
Sparks, Nevada 89431
702 (359-9330)

BONDAR-CLEGG

Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

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STANDARD NAME	ELEMENT UNITS	Au OPT	Au DUP OPT	Ag OPT	AG DUP OPT	STANDARD NAME	ELEMENT UNITS	Au OPT	Au DUP OPT	Ag OPT	AG DUP OPT
ANALYTICAL BLANK		<0.002	-	-	-	Accepted Value		-	-	-	-
ANALYTICAL BLANK		<0.002	-	-	-						
ANALYTICAL BLANK		<0.002	-	-	-						
Number of Analyses		3	-	-	-						
Mean Value		0.0010	-	-	-						
Standard Deviation		0.000000	-	-	-	AU PULP STD		0.214	-	-	-
Accepted Value		0.002	-	-	-	Number of Analyses		1	-	-	-
						Mean Value		0.2140	-	-	-
						Standard Deviation		-	-	-	-
						Accepted Value		0.184	-	-	-
AU ASSAY STD		0.014	-	-	-						
AU ASSAY STD		0.015	-	-	-						
Number of Analyses		2	-	-	-						
Mean Value		0.0145	-	-	-						
Standard Deviation		0.000071	-	-	-						
Accepted Value		0.015	-	-	-						
GEO TRACE STD1(1989)		-	-	1.07	-						
Number of Analyses		-	-	1	-						
Mean Value		-	-	1.069	-						
Standard Deviation		-	-	-	-						
Accepted Value		-	-	1.05	-						
AG ASSAY		-	-	2.96	-						
AG ASSAY		-	-	3.12	-						
AG ASSAY		-	-	3.15	-						
Number of Analyses		-	-	3	-						
Mean Value		-	-	3.076	-						
Standard Deviation		-	-	0.1028	-						
Accepted Value		-	-	3.03	-						
STANDARD		-	-	2.08	-						
STANDARD		-	-	2.07	-						
mber of Analyses		-	-	2	-						
an Value		-	-	2.074	-						
Standard Deviation		-	-	0.0029	-						

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SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	Ag OPT	AG DUP OPT	SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	Ag OPT	AG DUP OPT
Z2 RL186 0 5		0.003		<0.02		Z2 RL186 195 200		<0.002		0.03	
Z2 RL186 5 10		<0.002	<0.002 -.002	<0.02	<0.02 -.02	P4 BA 10		0.036		0.26	
Z2 RL186 10 15		<0.002		<0.02		Z2 RL186 200 205		<0.002	<0.002 -.002	<0.02	<0.02 -.02
Z2 RL186 15 20		<0.002		<0.02		Z2 RL186 205 210		<0.002		0.12	
Z2 RL186 20 25		<0.002		<0.02		Z2 RL186 210 215		<0.002	<0.002 -.002	0.02	
Z2 RL186 25 30		0.002		<0.02		Z2 RL186 215 220		0.002		<0.02	
Z2 RL186 30 35		<0.002		<0.02		Z2 RL186 220 225		<0.002		<0.02	
Z2 RL186 35 40		<0.002		<0.02		Z2 RL186 225 230		<0.002		<0.02	
Z2 RL186 40 45		<0.002		0.04		Z2 RL186 230 235		<0.002		<0.02	
Z2 RL186 45 50		<0.002		0.03		Z2 RL186 235 240		<0.002		<0.02	
Z2 RL186 50 55		<0.002		<0.02		Z2 RL186 240 245		<0.002		<0.02	
Z2 RL186 55 60		<0.002	<0.002 -.002	<0.02		Z2 RL186 245 250		<0.002		<0.02	
Z2 RL186 60 65		<0.002		<0.02		Z2 RL186 250 255		<0.002		<0.02	
Z2 RL186 65 70		<0.002		<0.02		Z2 RL186 255 260		<0.002		<0.02	
Z2 RL186 70 75		<0.002	<0.002 -.002	<0.02	<0.02	Z2 RL186 260 265		<0.002	<0.002 -.002	0.51	
Z2 RL186 75 80		<0.002		<0.02		Z2 RL186 265 270		<0.002		<0.02	<0.02 -.02
RL186 80 85		<0.002		<0.02		Z2 RL186 270 275		<0.002		<0.02	
Z2 RL186 85 90		<0.002		0.04		Z2 RL186 275 280		<0.002		0.07	
Z2 RL186 90 95		<0.002		0.04		Z2 RL186 280 285		<0.002		<0.02	
Z2 RL186 95 100		<0.002		<0.02	<0.02 -.02	Z2 RL186 285 290		<0.002		<0.02	
P4 BA 9		<0.002		<0.02		Z2 RL186 290 295		<0.002		0.12	
Z2 RL186 100 105		<0.002		<0.02		Z2 RL186 295 300		<0.002		<0.02	
Z2 RL186 105 110		<0.002		0.05		P4 BA 11		0.032		0.18	
Z2 RL186 110 115		<0.002	<0.002 -.002	<0.02		Z2 RL186 300 305		<0.002		0.07	
Z2 RL186 115 120		<0.002		<0.02		Z2 RL186 305 310		<0.002		0.07	
Z2 RL186 120 125		<0.002		<0.02		Z2 RL186 310 315		<0.002		0.31	
Z2 RL186 125 130		<0.002		<0.02		Z2 RL186 315 320		<0.002	<0.002 -.002	0.48	
Z2 RL186 130 135		<0.002		<0.02		Z2 RL186 320 325		<0.002		0.11	
Z2 RL186 135 140		<0.002		<0.02		Z2 RL186 325 330		<0.002		0.13	
Z2 RL186 140 145		<0.002		<0.02		Z2 RL186 330 335		<0.002		0.17	
Z2 RL186 145 150		<0.002		<0.02		Z2 RL186 335 340		<0.002		0.13	
Z2 RL186 150 155		<0.002		<0.02		Z2 RL186 340 345		<0.002		0.16	
Z2 RL186 155 160		<0.002		<0.02		Z2 RL186 345 350		<0.002		0.19	
Z2 RL186 160 165		<0.002	<0.002 -.002	<0.02		Z2 RL186 350 355		<0.002		0.58	
Z2 RL186 165 170		<0.002		0.02		Z2 RL186 355 360		<0.002		0.44	0.45 .45
Z2 RL186 170 175		0.002		<0.02		Z2 RL186 360 365		<0.002		0.07	
Z2 RL186 175 180		<0.002		<0.02		Z2 RL186 365 370		<0.002	<0.002 -.002	0.04	
RL186 180 185		<0.002		<0.02		Z2 RL186 370 375		<0.002		0.08	
Z2 RL186 185 190		<0.002		<0.02	<0.02 -.02	Z2 RL186 375 380		<0.002		0.12	
Z2 RL186 190 195		<0.002		0.04		Z2 RL186 380 385		<0.002		1.04	

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PROJECT: ROSEBUD

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Z2 RL186 385 390		<0.002		0.11							
Z2 RL186 390 395		<0.002		0.05							
Z2 RL186 395 400		<0.002		0.10							
P4 BA 12		0.078		0.05							
Z2 RL186 400 405		<0.002		0.10							
Z2 RL186 405 410		0.005		0.08							
Z2 RL186 410 415		<0.002		0.06							
Z2 RL186 415 420		0.005	0.005 .005	0.09							
Z2 RL186 420 425		<0.002		0.15							
Z2 RL186 425 430		0.010		0.13							
Z2 RL186 430 435		0.002		0.07							
Z2 RL186 435 440		<0.002		0.07	0.07 .07						
Z2 RL186 440 445		<0.002		0.26							
Z2 RL186 445 450		<0.002		0.07							
Z2 RL186 450 455		<0.002	<0.002 -.002	0.04	0.03 .03						
Z2 RL186 455 460		0.006		0.09							
Z2 RL186 460 465		<0.002		<0.02							
Z2 RL186 465 470		<0.002	<0.002 .002	<0.02							
Z2 RL186 470 475		<0.002		0.92							
Z2 RL186 475 480		<0.002		0.03							
Z2 RL186 480 485		<0.002		0.05							
Z2 RL186 485 490		<0.002		0.05							
Z2 RL186 490 495		<0.002		0.04							
Z2 RL186 495 500		<0.002		0.05							
P4 BA 68		0.044		0.08							

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REPORT: R91-11262.4 (COMPLETE)

DATE PRINTED: 22-JUL-91
PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AU Dup OPT	Ag OPT	AG DUP OPT
Z2 RL186 500 505		0.004			0.05	
Z2 RL186 505 510		0.003			0.03	
Z2 RL186 510 515		<0.002	0.002		0.04	0.04
Z2 RL186 515 520		0.005			<0.02	
Z2 RL186 520 525		<0.002			<0.02	
Z2 RL186 525 530		0.003			0.06	
Z2 RL186 530 535		0.003			0.06	
Z2 RL186 535 540		<0.002			0.03	
Z2 RL186 540 545		0.003			0.05	
Z2 RL186 545 550		0.004			0.05	
Z2 RL186 550 555		0.005			0.05	
Z2 RL186 555 560		<0.002			0.07	
Z2 RL186 560 565		<0.002	0.002		0.05	
Z2 RL186 565 570		<0.002			0.03	
Z2 RL186 570 575		0.007			0.05	
Z2 RL186 575 580		0.054			0.26	
Z2 RL186 580 585		0.038			0.06	
Z2 RL186 585 590		0.004			0.06	
Z2 RL186 590 595		0.011			0.11	
Z2 RL186 595 600		0.004	0.005		0.13	
P4 BA 69		0.033			0.21	0.21
Z2 RL186 600 605		<0.002	0.004		0.05	
Z2 RL186 605 610		0.013			0.14	
Z2 RL186 610 615		0.013			3.90	
Z2 RL186 615 620		0.014	0.017		0.32	
Z2 RL186 620 625		0.004			0.17	
Z2 RL186 625 630		0.032			0.14	
Z2 RL186 630 635		0.014			1.21	
Z2 RL186 635 640		0.014			1.88	
Z2 RL186 640 645		0.040			9.19	
Z2 RL186 645 650		0.166			>10.00	10.21
Z2 RL186 650 655		0.429			>10.00	43.29
Z2 RL186 655 660		0.363			1.03	
Z2 RL186 660 665		0.110	0.082		0.59	
Z2 RL186 665 670		0.165	0.136		0.66	
Z2 RL186 670 675		0.410			0.67	
Z2 RL186 675 680		0.062	0.097	0.084	0.22	
Z2 RL186 680 685		0.469			1.04	1.02
Z2 RL186 685 690		0.109			0.25	
Z2 RL186 690 695		0.113#	0.231	0.141	0.36	0.29

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DATE PRINTED: 22-JUL-91

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PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AU Dup OPT	Ag OPT	AG DUP OPT
Z2 RL186 695 700		0.119			1.09	
P4 BA 70		0.028			0.22	
Z2 RL186 700 705		0.119			0.82	
Z2 RL186 705 710		0.095			0.43	
Z2 RL186 710 715		0.047			0.17	
Z2 RL186 715 720		0.032	0.047		0.19	
Z2 RL186 720 725		0.032			0.74	
Z2 RL186 725 730		0.071			0.29	
Z2 RL186 730 735		0.399			0.45	
Z2 RL186 735 740		0.402			0.59	
Z2 RL186 740 745		0.026			0.17	
Z2 RL186 745 750		0.089			0.22	
Z2 RL186 750 755		0.062			0.23	
Z2 RL186 755 760		0.059			0.06	
Z2 RL186 760 765		0.050			0.31	
Z2 RL186 765 770		0.019	0.027		0.09	
Z2 RL186 770 775		0.013			0.10	0.10
Z2 RL186 775 780		<0.002			0.09	

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

REPORT: R91-11335.4 (COMPLETE)

DATE PRINTED: 2-AUG-91
PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	Ag OPT	AG DUP OPT
Z2 RL186 780 785		0.027		0.17	
Z2 RL186 785 790		0.023		0.08	
Z2 RL186 790 795		0.003		0.11	
Z2 RL186 795 800		0.018		0.15	
Z2 RL186 800 805		0.006		0.09	
Z2 RL186 805 810		0.034	0.029 .029	0.15	0.13 .13
Z2 RL186 810 815		0.048		0.12	
Z2 RL186 815 820		0.008		0.16	
Z2 RL186 820 825		<0.002		0.14	
Z2 RL186 825 830		<0.002		2.61	
Z2 RL186 830 835		0.012		0.16	
Z2 RL186 835 840		0.014		0.42	
Z2 RL186 840 845		0.007		0.11	

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Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

DATE PRINTED: 24-JUL-91

REPORT: R91-11262.6 (COMPLETE)

PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Ag OPT
Z2 RL186 645 650		10.21
Z2 RL186 650 655		43.29

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

REPORT: R91-11335.4 (COMPLETE)

DATE PRINTED: 2-AUG-91
PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	Ag OPT	AG DUP OPT
RL186 805 810		0.034	0.029	0.15	0.13
Duplicate		0.029		0.13	

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SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	Ag OPT	AG DUP OPT	SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	Ag OPT	AG DUP OPT
RL186 5 10		<0.002	<0.002	<0.02	<0.02	RL186 450 455		<0.002	<0.002	0.04	0.03
Duplicate		<0.002		<0.02		Prep Duplicate		<0.002		0.03	
RL186 55 60		<0.002	<0.002	<0.02		RL186 465 470		<0.002	<0.002	<0.02	
Duplicate		<0.002				Duplicate		<0.002			
RL186 70 75		<0.002	<0.002	<0.02	<0.02						
Prep Duplicate		<0.002		<0.02							
RL186 95 100		<0.002		<0.02	<0.02						
Duplicate				<0.02							
RL186 110 115		<0.002	<0.002	<0.02							
Duplicate		<0.002									
RL186 160 165		<0.002	<0.002	<0.02							
Duplicate		<0.002									
L186 185 190		<0.002		<0.02	<0.02						
Duplicate				<0.02							
RL186 200 205		<0.002	<0.002	<0.02	<0.02						
Prep Duplicate		<0.002		<0.02							
RL186 210 215		<0.002	<0.002	<0.02							
Duplicate		<0.002									
RL186 260 265		<0.002	<0.002	0.51							
Duplicate		<0.002									
RL186 265 270		<0.002		<0.02	<0.02						
Duplicate				<0.02							
RL186 315 320		<0.002	<0.002	0.48							
Duplicate		<0.002									
RL186 355 360		<0.002		0.44	0.45						
Duplicate				0.45							
RL186 365 370		<0.002	<0.002	0.04							
Duplicate		<0.002									
RL186 415 420		0.005	0.005	0.09							
Duplicate		0.005									
RL186 435 440		<0.002		0.07	0.07						
Duplicate				0.07							

RL186

Chemex Labs Inc.

Analytical Chemists * Geochemists * Registered Assayers
994 West Glendale Ave., Suite 7, Sparks,
Nevada, U.S.A. 89431
PHONE: 702-356-5395

To: LAC MINERALS U.S.A. INC

1395 GREG ST., STE 107
SPARKS, NEVADA
89431

A9118296

Comments: ATTN: TIM KUHL

CERTIFICATE A9118296

LAC MINERALS U.S.A. INC

Project: ROSEBUD
P.O. # :

Samples submitted to our lab in Sparks, NV.
This report was printed on 22-JUL-91.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
208	1	Assay ring to approx 150 mesh
273	1	Crush and split (21-30 pounds)

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
998	1	Au oz/T: 1 assay ton	FA-AAS	0.001	20.00

Chemex Labs Inc.

Analytical Chemists * Geochemists * Registered Assayers
994 West Glendale Ave., Suite 7, Sparks,
Nevada, U.S.A. 89431
PHONE: 702-356-5395

To: LAC MINERALS U.S.A. INC

1395 GREG ST., STE 107
SPARKS, NEVADA
89431

A9117751

Comments: ATTN: TIM KUHL

CERTIFICATE A9117751

LAC MINERALS U.S.A. INC

Project: ROSEBUD
P.O. # :

Samples submitted to our lab in Sparks, NV.
This report was printed on 12-JUL-91.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
208	5	Assay ring to approx 150 mesh
294	5	Crush and split (0-10 pounds)

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
998	5	Au oz/T: 1 assay ton	FA-AAS	0.001	20.00

RL 186

Chemex Labs Inc.

Analytical Chemists * Geochemists * Registered Assayers
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PHONE: 702-356-5395

To: LAC MINERALS U.S.A. INC

1395 GREG ST., STE 107
SPARKS, NEVADA
89431

A9117755

Comments: ATTN: TIM KUHL

CERTIFICATE A9117755

LAC MINERALS U.S.A. INC

Project: ROSEBUD
P.O. # :

Samples submitted to our lab in Sparks, NV.
This report was printed on 12-JUL-91.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
208	9	Assay ring to approx 150 mesh
294	9	Crush and split (0-10 pounds)

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
998	9	Au oz/T: 1 assay ton	FA-AAS	0.001	20.00

RL186

Chemex Labs Inc.

Analytical Chemists * Geochemists * Registered Assayers
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PHONE: 702-356-5395

o: LAC MINERALS U.S.A. INC

1395 GREG ST., STE 107
SPARKS, NEVADA
89431

Project : ROSEBUD
Comments: ATTN: TIM KUHL

Certificate Date: 12-JUL-91
Invoice No. : I9117755
P.O. Number :

CERTIFICATE OF ANALYSIS A9117755

SAMPLE DESCRIPTION	PREP CODE		Au oz/T									
RL-186 095-100	208	294	0.002									
RL-186 145-150	208	294	< 0.001									
RL-186 195-200	208	294	< 0.001									
RL-186 245-250	208	294	< 0.001									
RL-186 295-300	208	294	< 0.001									
RL-186 345-350	208	294	0.002									
RL-186 395-400	208	294	0.004									
RL-186 445-450	208	294	0.001									
RL-186 495-500	208	294	0.001									

CERTIFICATION: Sandra M Adam

Chemex Labs Inc.

Analytical Chemists * Geochemists * Registered Assayers
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PHONE: 702-356-5395

To: LAC MINERALS U.S.A. INC

1395 GREG ST., STE 107
SPARKS, NEVADA
89431

Project : ROSEBUD
Comments: ATTN: TIM KUHL

Certificate Date: 12-JUL-91
Invoice No. : I9117751
P.O. Number :

CERTIFICATE OF ANALYSIS A9117751

SAMPLE DESCRIPTION	PREP CODE		Au oz/T
RL-186 545-550	208	294	0.002
RL-186 595-600	208	294	0.005
RL-186 645-650	208	294	0.208
RL-186 695-700	208	294	0.126
RL-186 745-750	208	294	0.089

CERTIFICATION: Sandra M Adam

Chemex Labs Inc.

Analytical Chemists * Geochemists * Registered Assayers
994 West Glendale Ave., Suite 7, Sparks,
Nevada, U.S.A. 89431
PHONE: 702-356-5395

o: LAC MINERALS U.S.A. INC

1395 GREG ST., STE 107
SPARKS, NEVADA
89431

Project : ROSEBUD
Comments: ATTN: TIM KUHL

Certificate Date: 22-JUL-91
Invoice No. : I9118296
P.O. Number :

CERTIFICATE OF ANALYSIS A9118296

SAMPLE DESCRIPTION	PREP CODE		Au oz/T									
RL 186 825-830	208	273	0.004									

CERTIFICATION: _____

RL186

BOYLES-WELNAV
ELKO, NEVADA

GYROSCOPIC DIRECTIONAL SURVEY
BY MINIMUM CURVATURE

FOR

****
* LAC MINERALS CO. *
****

JOB NUMBER: 029-0313-12CCGY

HOLE NUMBER: RL-186

LOCATION: ROSEBUD PROPERTY

SURVEY DATE: 07-11-1991

SURVEY ENGINEER: PHIL GRAFFT

GYRO REFERENCE BEARING: 139-00

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

COMMENTS:

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

BOYLES-WELNAV
ELKO, NEVADA

JOB NUMBER: 029-0313-12CCGY HOLE NUMBER: RL-186

INRUN SURVEY
BY MINIMUM CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	INCL	DIRECTION AZIMUTH	COORDINATES NORTH/SOUTH	EAST/WEST	D-LEG /100	D-LEG /CL	STATION DISP.	DISPLACEMENT DIRECTION
50.0	50.00	0.57	-88.68	014.58	0.56 N	0.15 E	2.64	1.32	0.58	AT 014.58
100.0	99.98	1.69	-88.75	019.87	1.63 N	0.48 E	0.28	0.14	1.70	AT 016.28
150.0	149.97	2.79	-88.70	014.80	2.69 N	0.81 E	0.25	0.12	2.81	AT 016.68
200.0	199.96	3.98	-88.48	028.97	3.82 N	1.27 E	0.82	0.41	4.02	AT 018.42
250.0	249.94	5.35	-88.31	011.07	5.12 N	1.73 E	1.05	0.53	5.41	AT 018.71
300.0	299.92	6.72	-88.54	002.68	6.48 N	1.91 E	0.65	0.32	6.76	AT 016.39
350.0	349.90	8.00	-88.51	012.67	7.75 N	2.08 E	0.52	0.26	8.03	AT 015.01
400.0	399.89	9.25	-88.62	004.82	8.99 N	2.27 E	0.45	0.23	9.27	AT 014.18
450.0	449.87	10.45	-88.62	004.85	10.19 N	2.37 E	0.00	0.00	10.46	AT 013.11
500.0	499.86	11.62	-88.69	010.70	11.35 N	2.53 E	0.31	0.15	11.63	AT 012.57
550.0	549.84	12.80	-88.57	000.58	12.53 N	2.64 E	0.54	0.27	12.81	AT 011.90
600.0	599.83	14.05	-88.54	002.07	13.79 N	2.67 E	0.10	0.05	14.05	AT 010.96
650.0	649.81	15.31	-88.55	005.67	15.06 N	2.76 E	0.18	0.09	15.31	AT 010.37

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*********************************************************
*                        ********                       *
*     THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF       *
*                        ********                       *
*   650.0 FEET EQUALS    15.31   FEET AT  010.37        *
*                        ********                       *
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